

# X-Spark®

## Non-sparking, Non-magnetic Corrosion resistant tools

### 2018



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made by large do  
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made by large do

HEBEI BOTOU SAFETY TOOLS CO.,LTD

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## Non-sparking, Non-magnetic Corrosion resistant tools



2018

### 2018.09.18

NO.2 WUGANG ROAD, INDUSTRIAL PARK, BOTOU CITY  
HEBEI PROVINCE, CHINA 062150  
TEL: 86-317-8222761 8293066 8319026  
FAX: 86-317-8319058  
E-MAIL: admin@safetytools.com.cn info@safetytools.com.cn  
Website: <http://www.safetytools.com.cn>  
<http://www.x-spark.net>





HEBEI BOTOU SAFETY TOOLS CO., LTD

Framer of "National Non-sparking Tools Standards"

只有專才才能  
精益求精

Epigraph by Mr. Yang Qinglai—President of ZhongBo Group



# INTRODUCTION

Hebei Botou Safety Tools ( Groups) Co., Ltd., established in 1983, lies in BOTOU city of China and hold registered capitals RMB82,500,000. It is specialized in manufacturing Non-sparking tools and High Quality Special steel hand tools with 680 employees, among 28 senior engineers and 396 personnel, and occupys 66,000 Square Meters, among 40,000 Square Meters buildings , and 480 sets advanced equipments which 98% are working well. We can produce 5000,000 pcs safety tools per year and 68% to be exported. It is the largest scale manufacturer worldwide in Non-sparking safety tools .

We have over 360 items, over 5600 specifications in Non-sparking tools . There is two kinds of material, Beryllium Copper alloy and Aluminium Bronze . And all productions are satisfied 100% under testing of JIS M7002-96 of Japan and GB 10686-89 of China . These tools can avoid to rise sparking when tools strike, rub or collide with target in explosive atmosphere or flammable vapours and widely used in oil and gas works, petro-chemical plants, explosive manufactories, mines, shipyards, pipeline construction, armed forces, pharmacy, airports and many others.

Now our High quality special steel tools have over 60 ranges of products, over 1200 specifications. All the products accordance with GB/T4388- 4393-1995 of national standard and the design of striking spanner according to DIN7444 and DIN 133 of Germany standard .

The Titanium alloy tools is die forged making from Titanium alloy material. Extremely non magnetic, corrosion resistant, lightweight, hard durable, it is the most perfect special tools in aviation, spaceflight, iatrology, magnetic field which can not be replaced by the other material tools. This kind of material products is extremely difficult to produce and extremely hard to machine, but the titanium tools must be used prior as it distinguishable properties, in some high- tech industries.

After researching and practising for several years, we have mastered the absolute process skill and technology how to produce and machine this materail, as well as we have the precision equipment. Now we have the good capability to offer you many series and specifications of Titanium Tools. At present, our products are sold widely in abroad market, such as America, Japan, Germany , France, England, Singapore, Korea, Denmark, India, Iran, Kuwait, U.A.E, Russia, Pakistan, Australia, Turkey, Saudi Arabia, Taiwan, Hongkong and many other countries. And gained good and broad reputation because of the fine quality, competitive price and our honest dealings and good services.

In 1996, the company won the International Gold Award in the Second International Trade Fair of New Technology and Famous Products.

In 1998, with special approval the enterprises gained the foreign trade rights by the People's Republic of China.

In 2000, Botou factory gained all over the ISO9001 Certificate of Registration and UKAS Certificate of Conformity of Product.

In 2002, the company edited the national standard (GB) of Non-sparking safety tools, the same year the company be granted the framer of the national standard of Non-Sparking Safety Tools.

In 2003, the company gained ISO 9001:2000 Certificate of Registration.

In 2004, the products which are of high and new-technology were joined to torch project of People's Republic of China

As the requirement of customers, In 2005 we set up 31 distributors in China and 8 overseas distributors with its after service.

In 2008, Our brand be approved "China Famous Brand". In the same year, the company gained the ISO14001 Certificate and be approved "National High and New Tech Enterprises".

In 2009, the company is ranked in Domestic and International Tools & Hardware Fifteen Strong. And the same year, gained the GS Certificate of TUV Certification company.

In 2010, the company gained the FM Certificate of U.S.A.

In 2011 years, the company gained 《Export Quality Allowed Certificate》 .

In 2012 years, the company gained 《International Standard Used Certificate》 .

In 2013, the company was awarded Top 10 Well-known Enterprise of China Hand Tools as well as Famous Brand Enterprise of China Hand Tools.

In 2014, the company was awarded AAA credit enterprise GOC and CCCME

In 2015, company successfully public listing on the stock market, the same year Explosion-proof Tools Testing Center of Shanghai Tools Industry Research Institute in Hebei Zhongbo, was founded successfully.

In 2016, company passed the military secrecy qualification certification, awarded approval to establish three-level defense measure technology institution by the National Defense Science and Technology Industry Bureau. The same year, we gained the VDE certificate in Germany for Insulated tools according to IEC60900 standard.

In 2017, company passed the BAM certificate in Germany for both of Beryllium Copper alloy and Aluminium bronze non-sparking tools.

In 2018, the Testing Center of Hebei Botou Safety Tools gained the laboratory accreditation certificate by the China National Accreditation Service for Conformity (CNAS).

All staff sincerely welcome friends home and abroad with keen interest to contact and visit us for the long partnerships.





# WORK SITE

FORGING WORKSHOP



PRECISION CASTING WORKSHOP

HEAT TREATMENT



PROCESSING WORKSHOP

PRECISION FORGING MACHINE

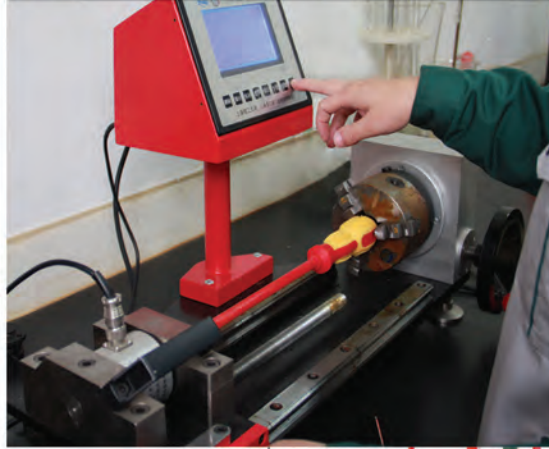


MODEL WORKSHOP

TOP QUALITY  
LEADING IN THE WORLD



## CHEMICAL LAB



NATIONAL TESTING CENTER  
INTERNATIONAL APPROVAL

## DROPED HAMMER TESTING OF NON-SPARKING FRICTION TESTING OF NON-SPARKING

### Non-sparking Safety Tools:

1. Aluminium Bronze Non-sparking Safety Tools

Standard No. : GBEx II B

Hardness: HB229-291

Breaking:  $\delta$  b75-85kgf/mm<sup>2</sup>

2. Beryllium Copper alloy Non-sparking Safety Tools

Standard No. : GBEx II C

Hardness: HB283-365

Breaking:  $\delta$  b105-120kgf/mm<sup>2</sup>



# Non-sparking tools & Safety Production Forum

2014.2.25 in Beijing

“China Tool Industry Self-brand Promotion-Non-sparking tools and Safety Production Forum” was Sponsored by China Hardware Association in China National Convention Center (CNCC) Beijing on 25th, Feb 2014.

Leading members of the concerned department like State-owned Assets Supervision and Administration Commission of the State Council (SASAC), the ministry of Industry and information technology (MIIT), State Administration of Work Safety, State Quality Inspection Administration, and People’s Government of Botou City Hebei P. R., etc. were present at the forum. Coal Mining Machinery Industry Association, Petroleum and chemical Industry Association and also, we Hebei Botou Safety Tools Co.,Ltd, as leading enterprise in the Non-sparking Tools field, were invited to the forum.

The Forum's theme is Non-sparking safety tools and safety in production. It was focusing on the importance of the application of Non-sparking tools in the safety production field and analysis stress on how to use Non-sparking tools properly in the specific areas to avoid accidents.

Meanwhile, according to the current development situations and international standing of Chinese Non-sparking safety tools, discussing the development and future of self-brand Non-sparking safety tools, attract media’s attention.



Director of China Hardware Association introduced the purpose and significance of the forum



Deputy Direct of State Quality Inspection Administration



Deputy Director Shi Zenglan hold the forum.



Director of MIIT



Deputy Director Yang Dongjiang introduce the industry development.



Director of Coal Mining Machinery Industry Association



Director of National Emergency Operations Center



General Manager of Hebei Botou Safety Tools Co.,Ltd



Director of SASAC



Interactive section





## Summit Forum of Non-sparking tools & Safety Production

June 29th, 2018, Cangzhou

2018《防爆工具与安全生产高端论坛》暨首届“专精特新”高端工具发布供需洽商会 中国沧州 2018.6.29



Mr. Zhang Hua make a speech about the Non sparking tools future development and its role in petrochemical inflammable and explosive environment.



Mrs. Shisenglan made speech "The best Non-sparking safety tools worldwide is from China, and the best non-sparking safety tools of China is made by Hebei Botou Safety Tools.



General Manager Mr. Louis Yang make speech about the intelligent project construction of Non-sparking Safety Tools and how to achieve customer satisfaction.



The Chief Engineer Mr. Xu make speech about the industry 4.0, and the intelligent production of non-sparking tools.



Mr. King make a speech about the future and development direction of Non sparking tools.



Dr. Shen made a speech concerning the current Industry development and the usage of Non sparking tools.



Chief Engineer Mr. Zhang make a speech about the foundation of Non sparking tools in petrochemical industry.



Mrs. Penny make a speech about the Non-sparking tools market analysis at home and abroad.



Mr. Yang Dongjiang, the framer of non sparking tools standard, make speech about the manufacturing process of the Non-sparking tools.



## INTERNATIONAL CERTIFICATE

**Certificate**  
N°: BAM/287/001/17

PROVECTO E CONFIRMADO POR BAM CERTIFICACIÓN S.L. que el Material "Aluminum-bronze alloy"

**Material:** "Aluminum-bronze alloy"

Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road, Industrial Park  
Botou City  
Hebei Province  
061700  
China

Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road, Industrial Park  
Botou City  
Hebei Province  
061700  
China

El certificado es válido until August 31<sup>st</sup>, 2022.

**Certificate**  
N°: BAM/287/002/17

PROVECTO E CONFIRMADO POR BAM CERTIFICACIÓN S.L. que el Material "Beryllium-copper alloy"

**Material:** "Beryllium-copper alloy"

Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road, Industrial Park  
Botou City  
Hebei Province  
061700  
China

Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road, Industrial Park  
Botou City  
Hebei Province  
061700  
China

El certificado es válido until August 31<sup>st</sup>, 2022.

**Zertifikat Certificate**

Artículo No. / Certificate No. 003 Page 1/003

El Sistema Under Approval "Hebei Batao Safety Tools Co., Ltd." ha sido aprobado por el Comité de Evaluación de la F. O. P.

Entidad certificadora: TÜV Rheinland

Entidad certificada: Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road, Industrial Park  
Botou City, Hebei  
P. R. China

Entidad certificadora: TÜV Rheinland  
Entidad certificada: Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road, Industrial Park  
Botou City, Hebei  
P. R. China

El certificado es válido until August 31<sup>st</sup>, 2022.

**VDE Prüf- und Zertifizierungsinstitut**

**ZEICHENGENEHMIGUNG MARKS APPROVAL**

Hebei Batao Safety Tools Co., Ltd.  
No. 2 Wuyang Road Industrial Park  
061700 BOTOU CITY  
China

El producto es apto para su uso en entornos potencialmente explosivos.

El certificado es válido until August 31<sup>st</sup>, 2022.

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**Stellungnahme zur Anwendbarkeit der RL 94/9/EG (ATEX)**

Für Geräte und Komponenten zur Verwendung in explosionsgefährdeten Bereichen

Statement for application of directive 94/9/EC For Equipment and Components Intended for Use in Potentially Explosive Atmospheres

Operational Conditions / Typische Einsatzbedingungen	Non-ventilating Breathing Air System / Typische Systeme
Hebei Batao Safety Tools Co., Ltd.	Hebei Batao Safety Tools Co., Ltd.
No. 2 Wuyang Road Industrial Park, Botou City, Hebei, P.R. China	No. 2 Wuyang Road Industrial Park, Botou City, Hebei, P.R. China
Produkttyp: Atemschutzgerät	Atemschutzgerät
Produktname: Atemschutzgerät	Atemschutzgerät
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Produktname: Atemschutzgerät	Atemschutzgerät

El certificado es válido until August 31<sup>st</sup>, 2022.

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## QUALITY ASSURANCE

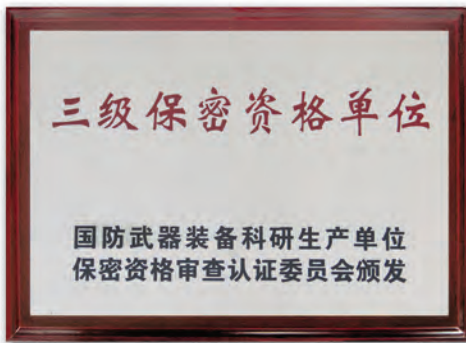




## International Trademark Registration



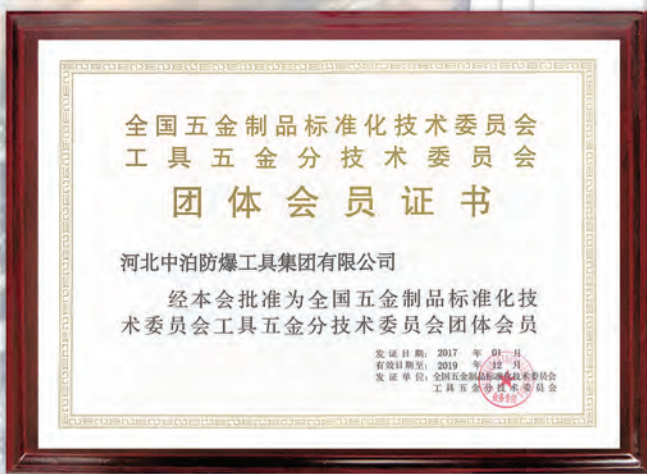
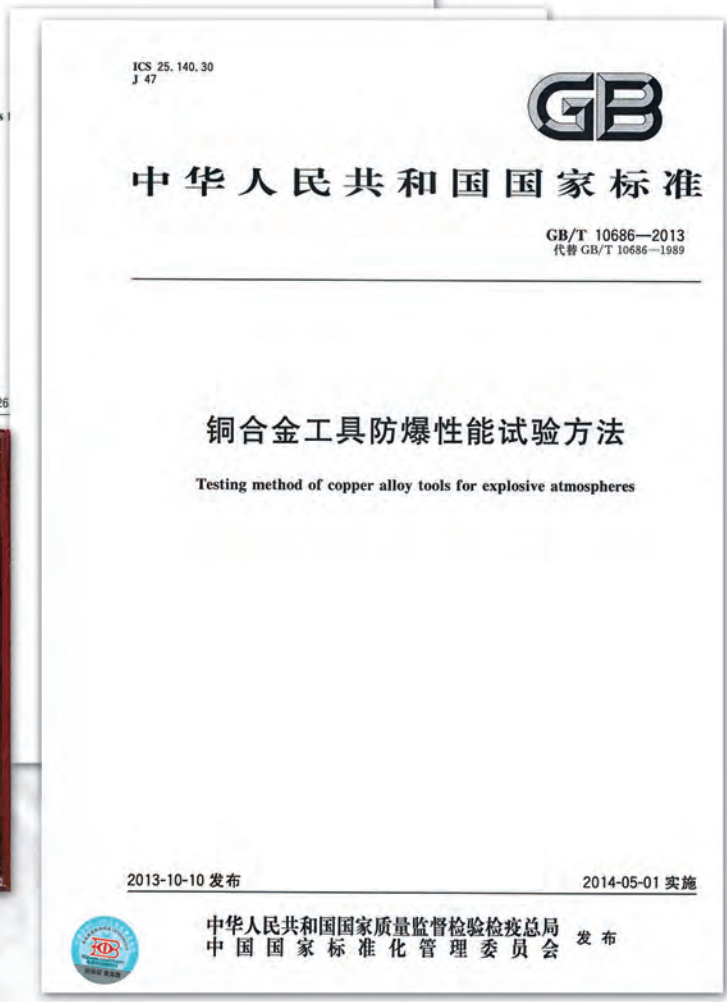


























































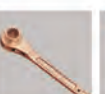




























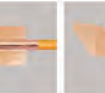





















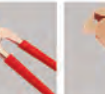






































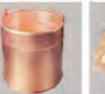


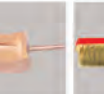



2013-10-10 发布 2014-05-01 实施

中华人民共和国国家质量监督检验检疫总局 发布  
中国国家标准化管理委员会



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Luxi chemical group Mr. Man said: the non-sparking tools of Hebei Botou Safety Tools is the world's first-class products, gradually develop into the innovation of science and technology development, Luxi chemical group has established long-term strategic partnership with Hebei Botou Safety Tools.

# A

## Be—Cu



## SAFETY FIRST





### No.101A 1/4" Dr Socket Set-8+2pcs



● G.W.: Be-Cu 710g    Al-Cu 690g

Number	Contents
101A	Socket 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm Driver Type Handle 55mm Slotted Screwdriver Phillips Screwdriver

### No.101B 1/4" Dr Socket Set-11pcs



● G.W.: Be-Cu 740g    Al-Cu 720g

Number	Contents
101B	Socket 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm Driver Type Handle 55mm

### No.101C 3/8" Dr Socket Set-13pcs



● G.W.: Be-Cu 1740g    Al-Cu 1650g

Number	Contents
101C	Socket 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 17mm, 19mm 13/16" Spark Plug Ratchet Wrench 200mm Straight Joint Driver Extension 75mm

### No.101D 1/4+3/8" Dr Socket Set-21pcs



● G.W.: Be-Cu 2130g  
Al-Cu 2000g

Number	Contents
101D	1/4" Socket 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm Ratchet Wrench 200mm Straight Joint Driver Extension 75mm, 150mm 3/8" Socket 10mm, 11mm, 12mm, 13mm, 14mm, 17mm, 19mm 13/16" Spark Plug Adaptor 3/8" *1/4" Driver Type Handle 55mm

### No.101E 1/2" Dr Socket Set-9pcs



● G.W.: Be-Cu 2000g  
Al-Cu 1890g

Number	Contents
101E	Socket 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm Offset Handle 230mm



## No.101F 1/2" Dr Socket Set-13pcs



- G.W.: Be-Cu 3390g  
Al-Cu 3180g

Number	Contents
101F	Socket 8mm, 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm Ratchet Wrench 245mm Hinged Handle 250mm Socket Case

## No.101G 1/2" Dr Socket Set-17pcs



- G.W.: Be-Cu 6730g  
Al-Cu 6355g

Number	Contents
101G	Socket 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm Ratchet Wrench 245mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Socket Case

## No.101H 1/2" Dr Socket Set-24pcs



- G.W.: Be-Cu 7370g  
Al-Cu 7270g

Number	Contents
101H	Socket 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 27mm, 30mm, 32mm Ratchet Wrench 245mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Universal Joint 80mm

## No.101I 1/2" Dr Socket Set-28pcs



- G.W.: Be-Cu 9050g  
Al-Cu 8520g

Number	Contents
101I	Socket 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 26mm, 27mm, 28mm, 30mm, 32mm Ratchet Wrench 245mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Universal Joint 80mm Screwdriver Socket 52mm Socket Case



## No.101J 1/2" Dr Socket Set-32pcs



- G.W.: Be-Cu 8980g  
Al-Cu 8390g

Number	Contents
101J	Socket 8mm,9mm,10mm,11mm,12mm,13mm,14mm,15mm,16mm,17mm,18mm,19mm,20mm,21mm,22mm,23mm,24mm,26mm,27mm,28mm,30mm,32mm 13/16" Spark Plug Ratchet Wrench 245mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm,250mm Universal Joint 80mm Screwdriver Socket 52mm Offset Handle 230mm      Socket Case

## No.101L 3/4" Dr Socket Set-21pcs



- G.W.: Be-Cu 15270g  
Al-Cu 14200g

Number	Contents
101L	Socket 21mm,22mm,23mm,24mm,26mm,27mm,28mm,29mm,30mm,31mm,32mm,34mm,36mm,38mm,41mm,46mm,50mm Ratchet Wrench 320mm Sliding T-Handle 3/4" *400 Driver Extension 200mm      Socket Case

## No.101K 3/4" Dr Socket Set-14pcs



- G.W.: Be-Cu 13240g  
Al-Cu 12350g

Number	Contents
101K	Socket 21mm,24mm,27mm,30mm,32mm,34mm,36mm,38mm,41mm,46mm,50mm Ratchet Wrench 320mm Sliding T-Handle 3/4" *400 Driver Extension 200mm

## No.101M 3/4" \*1" Dr Socket Set-26pcs



- G.W.: Be-Cu 24900g  
Al-Cu 23060g

Number	Contents
101M	Socket 3/4" Dr 21mm,22mm,23mm,24mm,26mm,27mm,28mm,29mm,30mm,31mm,32mm,34mm,36mm,38mm,41mm,46mm,50mm,1" Dr 55mm,60mm,65mm Ratchet Wrench 160mm Sliding T-Handle 3/4" *400 Driver Extension 3/4" Dr 200mm,430mm Flex Ball Joint 3/4" *120mm Sliding T-Handle 3/4" *1" *400mm

## No.101N 1" Dr Socket Set-18pcs



- G.W.: Be-Cu 24900g  
Al-Cu 24850g

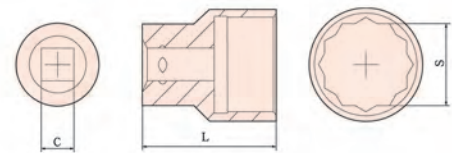
Number	Contents
101N	Socket 1" Dr 30mm,31mm,32mm,34mm,36mm,38mm,41mm,46mm,50mm,55mm,60mm,65mm,70mm,75mm,80mm Sliding T-Handle 3/4" *1" *400mm Driver Extension 1" Dr 200mm Flex Ball Joint 1" *120mm



**Socket**



- DIN3120 Die forged
- It suitable for use where space is narrow or deep concavity to tighten or loosen bolts and nuts.



**No.102 Socket (C=1/4")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
102-4	4	25	17	15
102-4.5	4.5	25	17	15
102-5	5	25	17	15
102-5.5	5.5	25	17	15
102-6	6	25	17	15
102-7	7	25	17	15
102-8	8	25	17	15
102-9	9	25	21	20
102-10	10	25	22	20
102-11	11	25	27	25
102-12	12	26	30	27
102-13	13	26	30	27
102-14	14	26	35	32
102-15	15	27	40	36
102-16	16	27	40	36
102-17	17	27	50	45
102-18	18	27	50	45
102-19	19	27	51	46

Number	S inch	L mm	Be-Cu g	Al-Cu g
102-1002	5/32	25	14	13
102-1004	3/16	25	14	13
102-1006	7/32	25	17	15
102-1008	1/4	25	17	15
102-1010	9/32	25	17	15
102-1012	5/16	25	20	18
102-1014	11/32	25	24	22
102-1016	3/8	25	29	26
102-1018	7/16	25	29	26
102-1020	1/2	26	29	26

**No.103 Socket (C=3/8")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
103-5	5	28	35	32
103-5.5	5.5	28	35	32
103-6	6	28	35	32
103-7	7	28	35	32
103-8	8	28	35	32
103-9	9	28	35	32
103-10	10	32	50	45
103-11	11	32	50	45
103-12	12	32	50	45
103-13	13	32	50	45
103-14	14	32	50	45
103-15	15	32	53	48
103-16	16	32	58	53
103-17	17	32	63	57
103-19	19	32	68	62
103-20	20	32	77	70

Number	S inch	L mm	Be-Cu g	Al-Cu g
103-1002	5/16	28	35	32
103-1004	3/8	28	35	32
103-1006	7/16	32	50	45
103-1008	1/2	32	50	45
103-1010	9/16	32	50	45
103-1012	5/8	32	71	65
103-1014	11/16	32	72	65
103-1016	3/4	32	72	65
103-1018	13/16	35	87	80
103-1020	7/8	35	104	95
103-1022	15/16	35	115	105





- DIN3120 Die forged
- It suitable for use where space is narrow or deep concavity to tighten or loosen bolts and nuts.

**No.104 Socket (C=1/2")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
104-6	6	40	75	69
104-7	7	40	77	70
104-8	8	40	77	70
104-9	9	40	78	71
104-10	10	40	78	71
104-11	11	40	79	72
104-12	12	40	79	72
104-13	13	40	80	73
104-14	14	40	80	73
104-15	15	40	94	85
104-16	16	40	94	85
104-17	17	40	94	85
104-18	18	42	94	85
104-19	19	42	110	100
104-20	20	42	120	105
104-21	21	43	125	110
104-22	22	43	130	115
104-23	23	43	150	135
104-24	24	43	165	145
104-25	25	43	180	160
104-26	26	43	200	180
104-27	27	46	215	190
104-28	28	46	225	200
104-29	29	46	235	210
104-30	30	46	250	220
104-32	32	46	295	260

**Socket**

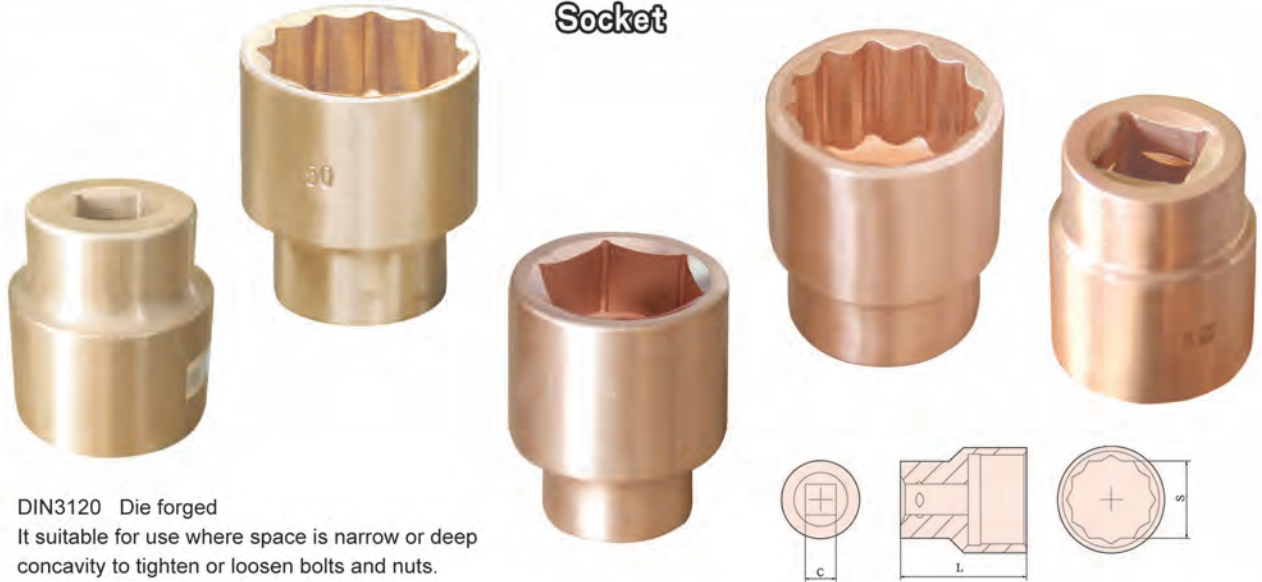
**No.104 Socket (C=1/2")**

Number	S inch	L mm	Be-Cu g	Al-Cu g
104-1002	5/16	40	70	70
104-1004	3/8	40	78	71
104-1006	7/16	40	79	72
104-1008	1/2	40	80	73
104-1010	9/16	40	80	73
104-1012	5/8	40	88	80
104-1014	11/16	40	93	85
104-1016	3/4	42	110	100
104-1018	13/16	43	125	110
104-1020	7/8	43	130	115
104-1022	15/16	43	165	145
104-1024	1	43	190	170
104-1026	1-1/16	46	215	190
104-1028	1-1/4	46	295	260
104-1030	1-7/16	50	330	300





**Socket**



- DIN3120 Die forged
- It suitable for use where space is narrow or deep concavity to tighten or loosen bolts and nuts.

**No.105 Socket (C=3/4" )**

Number	S mm	L mm	Be-Cu g	Al-Cu g
105-17	17	50	246	225
105-19	19	50	246	225
105-21	21	55	268	245
105-22	22	55	268	245
105-23	23	55	306	280
105-24	24	55	307	280
105-26	26	55	307	280
105-27	27	55	312	285
105-28	28	55	339	310
105-29	29	55	350	320
105-30	30	60	410	370
105-31	31	60	430	380
105-32	32	60	465	410
105-34	34	60	480	440
105-36	36	60	510	465
105-38	38	60	555	510
105-41	41	65	660	640
105-46	46	65	765	690
105-50	50	70	910	825
Number	S inch	L mm	Be-Cu g	Al-Cu g
105-1002	3/4	50	240	220
105-1004	13/16	55	262	240
105-1006	7/8	55	267	245
105-1008	15/16	55	305	280
105-1010	1	55	310	280
105-1012	1-1/16	55	315	285
105-1014	1-1/8	55	345	315
105-1016	1-3/16	60	400	365
105-1018	1-1/4	60	437	400
105-1020	1-5/16	60	472	430
105-1022	1-3/8	60	515	470
105-1024	1-7/16	60	525	480
105-1026	1-1/2	60	580	530
105-1028	1-5/8	65	702	640
105-1030	1-3/4	65	761	695
105-1032	1-13/16	65	830	705
105-1034	1-7/8	65	850	750
105-1036	2	70	965	870

**No.106 Socket (C=1" )**

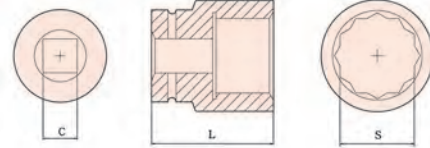
Number	S mm	L mm	Be-Cu g	Al-Cu g
106-22	22	55	361	330
106-24	24	55	372	340
106-25	25	55	377	345
106-26	26	55	383	350
106-27	27	55	394	360
106-28	28	55	397	363
106-29	29	55	399	365
106-30	30	60	443	405
106-31	31	60	448	410
106-32	32	60	481	440
106-34	34	60	497	455
106-36	36	65	550	500
106-38	38	65	620	560
106-41	41	70	690	625
106-46	46	75	850	740
106-50	50	75	850	760
106-55	55	80	1160	1000
106-60	60	85	1390	1260
106-65	65	90	1750	1580
106-70	70	90	2150	1950
106-75	75	95	2680	2430
106-80	80	95	3080	2800
Number	S inch	L mm	Be-Cu g	Al-Cu g
106-1002	1-1/16	55	394	360
106-1004	1-1/8	55	398	364
106-1006	1-3/16	60	442	405
106-1008	1-1/4	60	470	431
106-1010	1-5/16	60	483	442
106-1012	1-3/8	60	490	448
106-1014	1-7/16	65	560	500
106-1016	1-1/2	65	620	560
106-1018	1-5/8	70	690	625
106-1020	1-7/8	75	850	740
106-1022	2	75	960	850
106-1024	2-1/4	80	1250	1130
106-1026	2-1/2	90	1700	1550
106-1028	2-3/4	90	2050	1850
106-1030	3	95	2750	2500



**Impact Socket**



- DIN3129 Die forged
- Work with all kinds of electrical and impact tools.



**No.107 Impact Socket (C=3/4")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
107-24	24	50	380	330
107-27	27	53	405	365
107-30	30	53	440	390
107-32	32	56	475	425
107-36	36	56	650	585
107-41	41	60	695	625
107-46	46	60	770	700
107-50	50	70	1100	1000

**No.108 Impact Socket (C=1")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
108-19	19	55	630	570
108-21	21	55	640	580
108-22	22	55	650	590
108-24	24	55	660	600
108-26	26	55	735	660
108-27	27	55	735	670
108-29	29	60	760	690
108-30	30	60	765	690
108-32	32	60	775	700
108-34	34	60	775	700
108-35	35	60	775	700
108-36	36	60	775	700
108-38	38	65	865	780
108-41	41	65	930	830
108-46	46	70	1380	1265
108-50	50	75	1455	1320
108-52	52	75	1715	1550
108-55	55	75	1830	1650
108-58	58	85	2080	1900
108-60	60	85	2200	2000
108-65	65	85	2460	2250
108-70	70	90	2890	2600
108-75	75	90	3155	2900
108-80	80	90	3560	3200

**No.109 Impact Socket (C=1-3/16")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
109-50	50	90	1930	1755
109-52	52	90	2005	1835
109-55	55	90	2180	1965
109-58	58	90	2200	2000
109-60	60	90	2290	2085
109-65	65	90	2610	2370
109-70	70	90	2840	2585
109-75	75	90	3190	2880
109-80	80	90	3605	3250

**No.110 Impact Socket (C=1-1/4")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
110-50	50	90	1950	1765
110-60	60	90	2300	2100
110-70	70	90	2750	2475

**No.110A Impact Socket (C=1-1/2")**

Number	S mm	L mm	Be-Cu g	Al-Cu g
110A-55	55	90	2530	2300
110A-60	60	90	2750	2500
110A-65	65	95	3130	2850
110A-70	70	95	3400	3100
110A-75	75	100	3740	3400
110A-80	80	100	4180	3800
110A-85	85	110	4620	4200
110A-90	90	110	4940	4490





**No.110B Impact Socket ( 1/2" )**

Number	S mm	L mm	Be-Cu g	Al-Cu g
110B-8	8	40	80	70
110B-10	10	40	85	75
110B-12	12	40	100	90
110B-14	14	40	125	115
110B-17	17	40	125	115
110B-19	19	40	135	120
110B-22	22	40	150	135
110B-24	24	45	185	165
110B-27	27	45	215	190
110B-30	30	50	265	235
110B-32	32	50	285	255

**No.110C Impact Socket ( 1/2" Deep)**

Number	S mm	L mm	Be-Cu g	Al-Cu g
110C-8	8	80	315	280
110C-10	10	80	315	280
110C-12	12	80	315	280
110C-14	14	80	315	280
110C-17	17	80	315	280
110C-19	19	80	325	290
110C-22	22	80	335	300
110C-24	24	80	365	325
110C-27	27	80	425	380
110C-30	30	80	455	410
110C-32	32	80	485	435

**No.110D Impact Socket ( 3/4" Deep)**

Number	S mm	L mm	Be-Cu g	Al-Cu g
110D-17	17	90	625	570
110D-19	19	90	635	580
110D-22	22	90	660	600
110D-24	24	90	690	630
110D-27	27	90	715	650
110D-30	30	90	825	750
110D-32	32	90	880	800
110D-36	36	90	980	890
110D-41	41	90	1100	1000
110D-46	46	100	1430	1300
110D-50	50	100	1825	1660

**No.111 Flex Ball Joint**



- Die forged
- Flexible head can be vertical rotated 90 degrees The hole is designed to use with a extension.

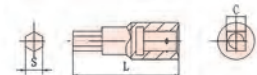


Number	C inch	L mm	Φ mm	Be-Cu g	Al-Cu g
111-1002	3/4	120	21	880	800
111-1004	1	120	21	1160	1050

**No.111A Internal Hexagon Socket**



- Die forged
- The hexagon rod was locked with cooper bead.
- Replacable hexagon rod



Number	C inch	S mm	L mm	Be-Cu g	Al-Cu g
111A-1002	1/4	3	55	17	16
111A-1004		4	55	17	16
111A-1006		5	55	20	18
111A-1008		6	55	26	23
111A-1010		7	55	30	27
111A-1012		8	65	45	40
111A-1014		9	65	55	50
111A-1016	10	65	65	60	
111A-1018	1/2	12	60	125	110
111A-1020		13	60	135	120
111A-1022		14	60	140	125
111A-1024		15	60	165	145
111A-1026		16	60	170	150
111A-1028		17	60	175	160
111A-1030		18	60	190	170
111A-1032		19	62	220	200
111A-1034		20	62	230	205



## No.111B Socket Wrench, Triangular



- Die forged
- Used for tighten or loosen triangular bolts and nuts.

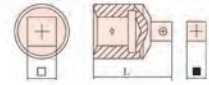


Number	C inch	M mm	L mm	Be-Cu g	Al-Cu g
111B-1002	1/2	6	40	75	70
111B-1004		8	40	80	75
111B-1006		10	40	85	80
111B-1008		12	40	95	90
111B-1010		16	50	180	150
111B-1012		20	50	250	215
111B-1014		24	60	420	380

## No.113 Adaptor



- DIN3123 Die forged
- Used as a convertor to permit use of sockets and driving tools to different drive sizes.

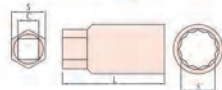


Number	F inch	M inch	L mm	Be-Cu g	Al-Cu g
113-1002	3/8	1/4	26	31	28
113-1004	1/4	3/8	22	22	20
113-1006	1/2	3/8	34	80	70
113-1008	3/8	1/2	34	60	55
113-1010	3/4	1/2	55	290	260
113-1012	1/2	3/4	50	170	150
113-1014	1	3/4	70	855	770
113-1016	3/4	1	60	360	320
113-1018	1-1/2	1	85	1675	1510
113-1020	1	1-1/2	85	1230	1100

## No.111C Spark Plug Socket



- Die forged
- It is a special tool for manually disassemble and assemble spark plug.

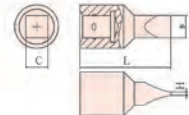


Number	C inch	S inch	L mm	Be-Cu g	Al-Cu g
111C-1002	3/8	13/16	62	180	160
111C-1004	1/2	13/16	62	160	145

## No.114 Screwdriver Socket



- Die forged
- It is used as a slotted screwdriver when matched with transmission accessories.

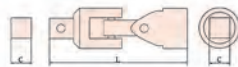


Number	C inch	L mm	H mm	B mm	Be-Cu g	Al-Cu g
114-1002	1/2	52	2	13	102	91

## No.112 Universal Joint



- DIN3123 Die forged
- It is commonly used in shafts that transmit rotary motion.

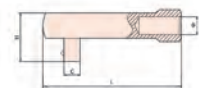


Number	C inch	L mm	Be-Cu g	Al-Cu g
112-1002	1/2	80	186	170
112-1004	3/4	110	530	480
112-1006	1	132	1000	900

## No.115 Ratchet Wrench



- DIN3122 Die forged
- Allow the socket to be turned without removing it from the nut or bolt simply by cycling



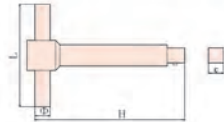
Number	C inch	L mm	Φ mm	H mm	Be-Cu g	Al-Cu g
115-1002	3/4	160	21	55	1760	1600
115-1004	1	180	23	60	2470	2250



## No.116 Sliding T Type Wrench



- Die forged
- Used for driving of manually operated sockets.

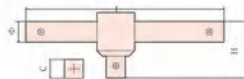


Number	C inch	L mm	Φ mm	H mm	Be-Cu g	Al-Cu g
116-1002	3/4	350	19	200	1705	1550
116-1004	1	400	21	200	2590	2350

## No.117 Sliding T Handle



- DIN3122 Die forged
- Used for driving of manually operated sockets.



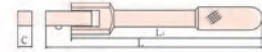
Number	C inch	L mm	H mm	Φ mm	Be-Cu g	Al-Cu g
117-1002	1/2	250	39	13	340	310
117-1004	3/4	350	54	19	1070	960
117-1006	3/4	400	56	21	1335	1221
117-1008	1	400	62	21	1620	1481



## No.118 Hinged Handle



- DIN3122 Die forged
- This tool allows the user to impart considerable torque to fasteners, especially in cases where corrosion has resulted in a difficult-to-loosen part.

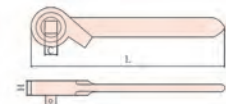


Number	C inch	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
118-1002	3/8	190	175	245	220
118-1004	1/2	250	230	440	400
118-1006	1/2	320	300	565	510
118-1008	1/2	400	380	645	580
118-1010	3/4	286	260	635	570
118-1012	1	304	270	910	830

## No.119 Ratchet Wrench



- DIN3122 Die forged
- Allow the socket to be turned without removing it from the nut or bolt simply by cycling the handle forward and backward.



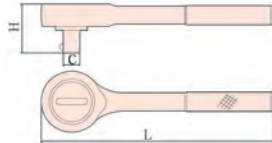
Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
119-1002	1/4	200	16.5	350	305
119-1004	3/8	175	16.5	335	302
119-1006	3/8	200	16.5	400	360
119-1008	1/2	250	16.5	535	480
119-1010	3/4	300	22	1290	1170
119-1012	1	300	22	1590	1440



**No.120 Ratchet Wrench**



- DIN3122 Die forged
- Reversing the direction of operation without detaching the sockets. It has built in mechanisms for both right and left operation.
- The ratchets have replaceable gear-pawl assembly.



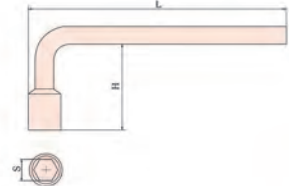
Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
120-1002	3/8	200	30	290	260
120-1004	1/2	245	43	690	615
120-1006	3/4	320	57	1570	1430
120-1008	1	550	67	3470	3150



**No.121A Wrench, Socket L-Type**



- Die forged
- Tighten or loosen hex bolts and nuts directly.

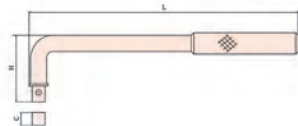


Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
121A-6	6	120	29	40	35
121A-8	8	144	33	70	60
121A-10	10	168	37	100	90
121A-12	12	216	42	155	135
121A-13	13	240	45	215	190
121A-14	14	245	45	250	215
121A-15	15	250	48	280	240
121A-16	16	255	48	335	290
121A-17	17	260	51	380	325
121A-18	18	265	53	420	365
121A-19	19	270	55	460	400
121A-20	20	272	57	520	450
121A-21	21	275	57	650	550
121A-22	22	278	59	750	645
121A-23	23	282	60	800	680
121A-24	24	286	63	850	700
121A-27	27	294	69	900	800
121A-30	30	302	75	1000	880
121A-32	32	310	81	1100	950
121A-36	36	330	85	1300	1150
121A-41	41	350	90	1500	1450

**No.121 Offset Handle**



- DIN3122 Die forged
- Used for driving manually operated sockets for working in restricted places.



Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
121-1002	3/8	200	50	314	287
121-1004	1/2	230	60	410	380
121-1006	3/4	280	75	765	699
121-1008	1	300	85	1160	1060



## No.121B Sliding T Type Wrench



- DIN3122
- Die forged
- Tighten or loosen hex bolts and nuts directly.

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
121B-7	7	120	120	100	90
121B-9	9	130	130	155	140
121B-11	11	140	150	190	170
121B-14	14	150	170	265	240
121B-17	17	170	190	410	370
121B-19	19	180	210	535	480
121B-22	22	190	240	750	680
121B-24	24	200	270	950	860
121B-27	27	200	270	1110	1000
121B-30	30	200	280	1340	1210
121B-32	32	200	280	1440	1300
121B-36	36	200	280	1980	1800

## No.121C Socket, Double End



- DIN3122 Die forged
- Tighten or loosen hex bolts and nuts directly.
- Suitable for two sizes



Number	S1* S2 mm	L mm	Be-Cu g	Al-Cu g
121C-0607	6*7	105	70	65
121C-0809	8*9	115	90	80
121C-1011	10*11	120	110	120
121C-1213	12*13	140	170	160
121C-1415	14*15	140	255	230
121C-1617	16*17	155	440	340
121C-1819	18*19	165	520	460
121C-2022	20*22	175	630	570
121C-2123	21*23	185	670	600
121C-2427	24*27	195	870	785
121C-2528	25*28	205	965	870
121C-2730	27*30	210	1000	900

## No.122 Driver Extension



- DIN3123
- Die forged
- Tighten or loosen hex bolts and nuts directly.

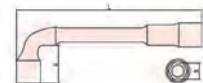


Number	C inch	L mm	Be-Cu g	Al-Cu g
122-1002	3/8	75	93	80
122-1004	3/8	150	185	160
122-1006	1/2	100	245	225
122-1008	1/2	125	260	230
122-1010	1/2	200	365	330
122-1012	1/2	250	470	425
122-1014	3/4	200	855	770
122-1016	1	200	1525	1380

## No.122A Wrench, Socket L-Type



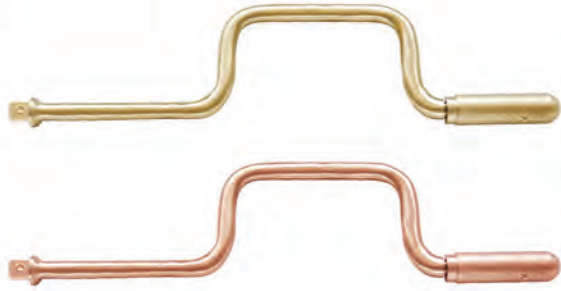
- Precision Casting
- Tighten or loosen hex bolts and nuts directly.



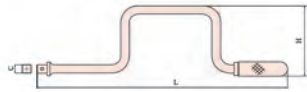
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
122A-6	6	102	18	45	40
122A-7	7	106	18	50	45
122A-8	8	114	22	72	65
122A-9	9	122	22	90	80
122A-10	10	129	25	130	120
122A-11	11	136	25	140	125
122A-12	12	144	28	165	150
122A-13	13	152	30	200	185
122A-14	14	160	32	215	195
122A-15	15	169	35	265	240
122A-16	16	178	35	325	295
122A-17	17	187	40	350	315
122A-18	18	195	40	380	345
122A-19	19	204	45	485	440
122A-21	21	221	50	580	525
122A-22	22	230	50	650	590
122A-24	24	250	55	705	640
122A-27	27	280	65	1135	1030
122A-30	30	310	70	1460	1300
122A-32	32	330	75	1730	1570
122A-34	34	350	75	1760	1600
122A-36	36	370	80	1840	1670



**No.123 Speed Handle**



- DIN3122 Precision Casting
- Used instead of a ratchet in narrow space. Crank-shaped handle can save substantial time and effort.

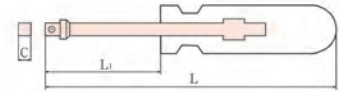


Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
123-1002	1/2	390	96	780	700

**No.124 Driver Type Handle**



- DIN3122
- Die forged
- It is used with 1/4" Dr. Socket.



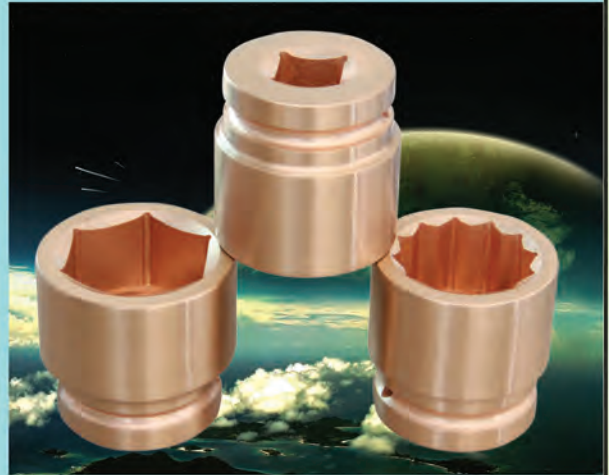
Number	C inch	L mm	L1 mm	Be-Cu g	Al-Cu g
124-1002	1/4	170	55	95	85

**No.124A Labor Saving Wrench**



- Precision Casting
- Disassemble or assemble automobile tires efficiently by using planetary gear transmission mechanisms

Number	size	Drive Ratio	C inch	Be-Cu g	Al-Cu g
124A-1002	ZB-16	1:16	1/2	2000	1800
124A-1004	ZB-58	1:58	1	6850	6200
124A-1006	ZB-68	1:68	1	8050	7300
124A-1008	ZB-78	1:78	1	8300	7500





B

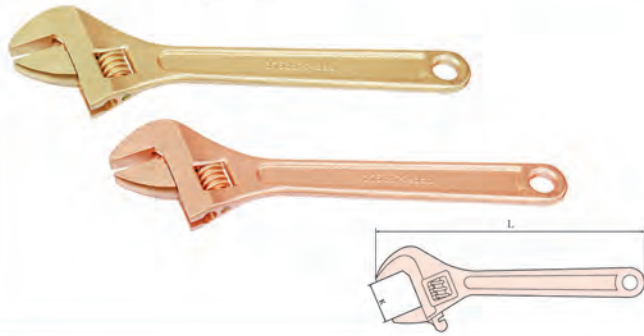
DIE FORGED MAKING  
KEEP AHEAD THE WORLD







**No.125 Wrench, Adjustable**



- QB/T2613.8-2005 Die forged
- It is suitable for different sizes of fasteners by adjusting the opening size.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
125-1002	100	13	33	30	/	/	/
125-1004	150	18	145	130	20	3.35	3.15
125-1006	200	24	275	240	20	6.23	5.75
125-1008	250	30	485	435	20	10.74	9.8
125-1010	300	36	780	715	10	8.50	7.85
125-1012	375	46	1400	1220	6	10.05	9.28
125-1014	450	55	2150	1900	4	10.10	9.13
125-1016	600	65	3500	3100	/	/	/

**No.125A Wrench, Adjustable, Plastic Handle**



- QB/T2613.8-2005 Die forged

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
125A-1002	100	13	33	30	/	/	/
125A-1004	150	18	145	130	20	3.35	3.15
125A-1006	200	24	275	240	20	6.23	5.75
125A-1008	250	30	485	435	20	10.74	9.8
125A-1010	300	36	780	715	10	8.50	7.85
125A-1012	375	46	1400	1220	6	10.05	9.28
125A-1014	450	55	2150	1900	4	10.10	9.13
125A-1016	600	65	3500	3100	/	/	/

**No.125B Wrench, Adjustable**



- QB/T2613.8-2005 Die forged
- Red finish

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
125B-1002	100	13	33	30	/	/	/
125B-1004	150	18	145	130	20	3.35	3.15
125B-1006	200	24	275	240	20	6.23	5.75
125B-1008	250	30	485	435	20	10.74	9.8
125B-1010	300	36	780	715	10	8.50	7.85
125B-1012	375	46	1400	1220	6	10.05	9.28
125B-1014	450	55	2150	1900	4	10.10	9.13
125B-1016	600	65	3500	3100	/	/	/

**No.125C Wrench, Adjustable**



- QB/T2613.8-2005 Die forged
- Laser scale head

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
125C-1002	100	13	33	30	/	/	/
125C-1004	150	18	145	130	20	3.35	3.15
125C-1006	200	24	275	240	20	6.23	5.75
125C-1008	250	30	485	435	20	10.74	9.8
125C-1010	300	36	780	715	10	8.50	7.85
125C-1012	375	46	1400	1220	6	10.05	9.28
125C-1014	450	55	2150	1900	4	10.10	9.13
125C-1016	600	65	3500	3100	/	/	/



**No.125D Wrench, Adjustable**



- QB/T2613.8-2005 Die forged
- Plastic Handle

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
125D-1002	150	18	165	145
125D-1004	200	24	300	270
125D-1006	250	30	550	500
125D-1008	300	36	750	680

**No.125E Wrench, Adjustable**



- QB/T2613.8-2005 Die forged
- It is suitable for different sizes of fasteners by adjusting the opening size.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
125E-1002	150	18	175	150
125E-1004	200	24	290	250
125E-1006	250	30	485	420
125E-1008	300	36	750	650

**No.125F Wrench, Adjustable (Italy Type)**

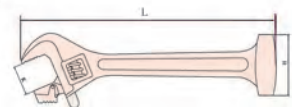


Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
125F-1002	150	18	180	160
125F-1004	200	24	390	350
125F-1006	250	30	670	610

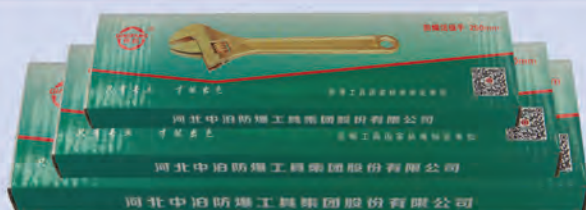
**No.126 Wrench, Adjustable**



- Q/ZBF-126 Precision Casting
- This adjustable wrench can also be used as a hammer.



Number	L mm	K <sub>max</sub> mm	H mm	Be-Cu g	Al-Cu g
126-1002	350	36	80	1384	1251

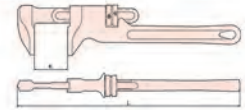




**No.127 Wrench, Monkey**

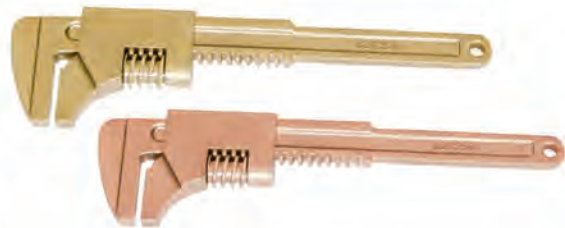


- Q/ZBF-127 Die forged
- Replace the adjustable wrench by used for heavier task.

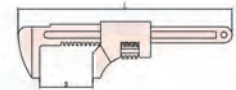


Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
127-1002	240	45	510	470
127-1004	254	48	615	560
127-1006	305	58	910	820
127-1008	350	65	1220	1120
127-1010	380	70	1465	1340

**No.127A Motor Wrench**

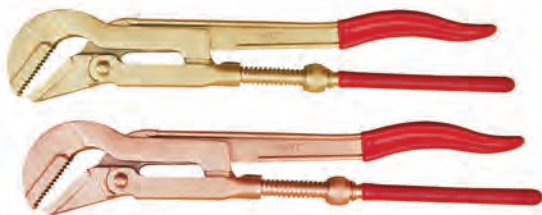


- Q/ZBF-127A Die forged
- Wide adjustment range, suitable for heavy duty work.

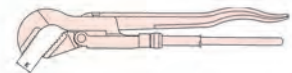


Number	S mm	L mm	Be-Cu g	Al-Cu g
127A-62	62	250	575	520
127A-78	78	280	860	780
127A-82	82	375	1430	1300

**No.128 Wrench, Swedish Type 45°**

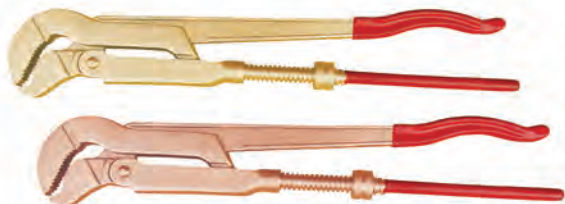


- DIN5234 Die forged
- Grip pipe and pipe fittings securely.
- Long handle.

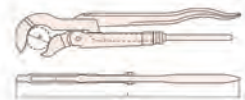


Number	L mm	K mm	Be-Cu g	Al-Cu g
128-1002	430	38	1550	1400
128-1004	530	50	2230	2000

**No.128A Wrench, Swedish Type**



- DIN5234 Die forged
- Clamp mouth prevent workpiece sliding and ensure the max rotate in restricted space.



Number	L mm	D inch	Be-Cu g	Al-Cu g
128A-1002	530	2	2605	2355
128A-1004	650	3	4500	4060
128A-1006	790	4	6200	5600

**No.128B Wrench, Swedish Type 90°**



- DIN5234 Die forged
- Grip pipe and pipe fittings securely.
- Long handle.



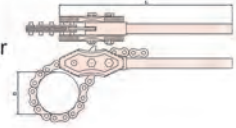
Number	L mm	K mm	Be-Cu g	Al-Cu g
128B-1002	430	38	1480	1330



**No.129 Wrench, Chain Pipe**



- DIN17200 Die forged
- Used for tighten or loosen bigger sizes pipes and pipe fittings.



Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
129-1002	600	100	3955	3605
129-1004	600	150	4650	4200
129-1006	900	200	8600	7800
129-1008	900	300	9810	9000

**No.129A Wrench, Chain Pipe Light**



- Q/ZBF-129A Die forged
- Used for tighten or loosen bigger sizes pipes and pipe fittings.

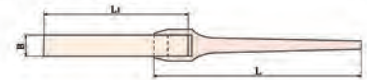


Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
129A-1002	600	100	2105	1910
129A-1004	1600	450	10500	9500
129A-1006	300	60	1030	940

**No.129B Wrench, Belt Pipe**



- Q/ZBF-129B Precision Casting
- Strong nylon belt will not slip.
- Prevent the surface from damaging.

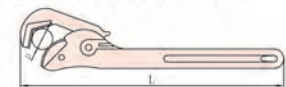


Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
129B-1002	300	425	30	810	735

**No.129C Universal Wrench**



- Q/ZBF-129C Precision Casting
- One handed with thumb trigger for quick opening.

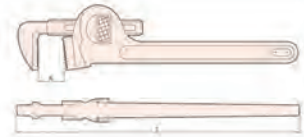
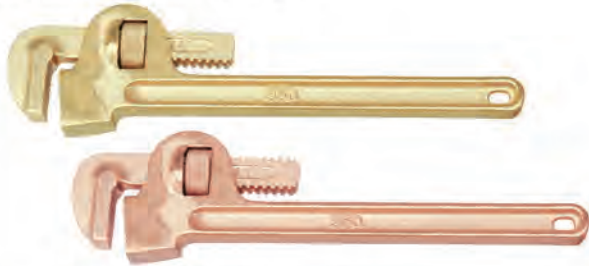


Number	L mm	D mm	Be-Cu g	Al-Cu g
129C-1002	250	10-30	870	780
129C-1004	450	30-60	2450	2200





**No.130 Wrench, Pipe**



- QB/T2613.10-2005 Die forged
- Used for disassembling or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
130-1002	200	25	400	365	20	8.75	8.05
130-1004	250	30	615	560	16	10.70	9.81
130-1006	300	40	825	750	12	10.70	9.80
130-1008	350	50	1100	1000	8	10.00	9.20
130-1010	450	60	1785	1625	6	11.35	10.39
130-1012	600	75	3255	2960	/	/	/
130-1014	900	125	6035	5490	/	/	/
130-1016	1200	150	12280	10870	/	/	/

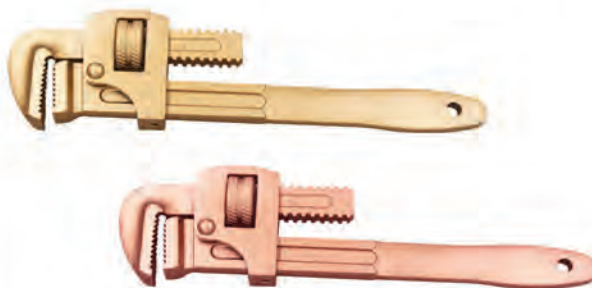
**No.130A Wrench, Pipe**



- QB/T2613.10-2005 Die forged
- Used for disassembling or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
130A-1002	200	25	400	365	20	8.75	8.05
130A-1004	250	30	615	560	16	10.70	9.81
130A-1006	300	40	825	750	12	10.70	9.80
130A-1008	350	50	1100	1000	8	10.00	9.20
130A-1010	450	60	1785	1625	6	11.35	10.39
130A-1012	600	75	3255	2960	/	/	/
130A-1014	900	125	6035	5490	/	/	/
130A-1016	1200	150	12280	10870	/	/	/

**No.130B Wrench, Pipe (British Type)**



- Die forged
- Used for disassembling or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
130B-1002	200	25	430	380
130B-1004	250	30	580	520
130B-1006	300	40	880	780
130B-1008	350	50	1250	1080
130B-1010	450	60	1910	1660
130B-1012	600	75	3115	2710

**No.130C Wrench, Pipe (Germany Light Type)**



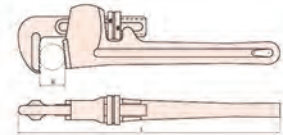
- Die forged
- Used for disassembling or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
130C-1002	350	75	1300	1200





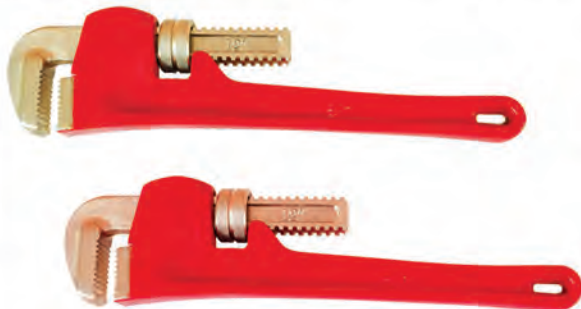
**No.131 Wrench, Pipe (American Type)**



- QB/T2613.10-2005 Die forged
- Used for disassembling or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g	Qty Carton	Be-Cu Gw kg	Al-Cu Gw kg
130-1002	200	25	400	365	20	8.75	8.05
130-1004	250	30	615	560	16	10.70	9.81
130-1006	300	40	825	750	12	10.70	9.80
130-1008	350	50	1100	1000	8	10.00	9.20
130-1010	450	60	1785	1625	6	11.35	10.39
130-1012	600	75	3255	2960	/	/	/
130-1014	900	125	6035	5490	/	/	/
130-1016	1200	150	12280	10870	/	/	/

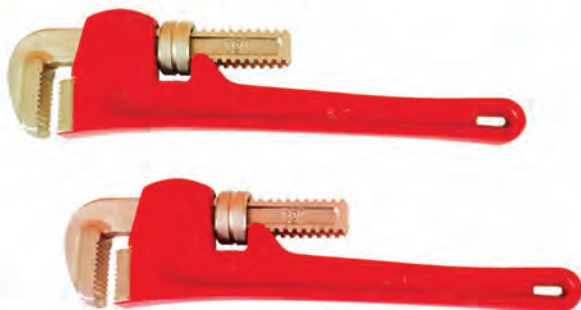
**No.131A Wrench, Pipe (American Type)**



- QB/T2613.10-2005 Die forged
- Used for disassembling or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
131A-1002	200	25	420	380
131A-1004	250	30	735	670
131A-1006	300	40	1050	955
131A-1008	350	50	1315	1195
131A-1010	450	60	2255	2050
131A-1012	600	75	3465	3150
131A-1014	900	85	5880	5345
131A-1016	1200	110	12600	11450

**No.131AL Wrench, Pipe (American Type)**



- QB/T2613.10-2005 Die forged
- Used for disassembling or assembling pipes and fittings. Aluminium Handle

Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
131AL-1002	250	30	560	485
131AL-1004	300	40	850	740
131AL-1006	350	50	1200	1050
131AL-1008	450	60	1955	1700



**No.131B Wrench, Pipe (Diagonal Type)**

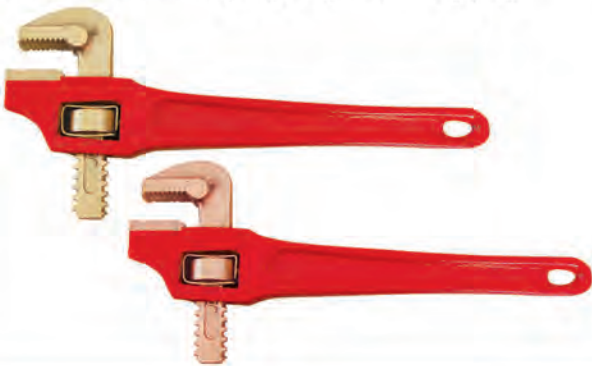


- Q/ZBF-131B Precision Casting
- Used for disassembling or assembling pipes and fittings,
- The bent head (45 degree angle) can be used in special space.

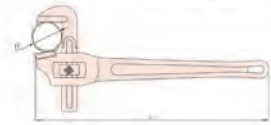


Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
131B-1002	200	34	560	510
131B-1004	250	48	930	840
131B-1006	300	50	1470	1330
131B-1008	375	60	1780	1610
131B-1010	450	76	2650	2400

**No.131C Wrench, Pipe (Bent Type)**



- Q/ZBF-131C Precision Casting
- Used for disassembling or assembling pipes and fittings,
- The bent head (90 degree angle) can be used in special space.

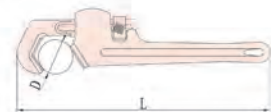


Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
131C-1002	200	34	500	450
131C-1004	250	48	850	780
131C-1006	300	50	1200	1090
131C-1008	375	60	1950	1770
131C-1010	450	76	2730	2480

**No.131D Wrench, Pipe (Hex Type)**



- Q/ZBF-131D Precision Casting
- Hexagonal head design increased the contact area with the fasteners and firmly grip.

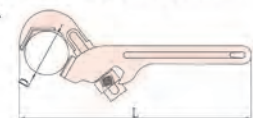


Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
131D-1002	250	30	1250	1130
131D-1004	350	50	1785	1620

**No.131E Wrench, Pipe (Bent & Hex Type)**



- Q/ZBF-131E Die forged
- Hexagonal head design increased the contact area with the fasteners. The bent head (45 degree angle) can be used for special space.



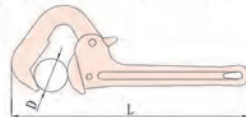
Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
131E-1002	250	30	1250	1130
131E-1004	350	50	1785	1620



## No.131F Wrench, Pipe (Rapid Grip)



- Q/ZBF-131F Die forged
- It is adjustable wrench used for disassembling or assembling pipes and fittings, one-hand operated, easy for use.



Number	L mm	D <sub>max</sub> mm	Be-Cu g	Al-Cu g
131F-1002	250	48	980	880
131F-1004	350	60	1900	1710



## No.132 Set-9pcs Wrench, Combination

Number	S mm	Be-Cu g	Al-Cu g
132	8, 10, 12, 14, 17, 19, 22, 24, 27	1815	1655

## No.133 Set-11pcs Wrench, Combination

Number	S mm	Be-Cu g	Al-Cu g
133	8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32	3235	2955

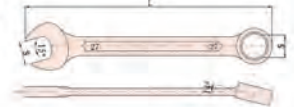
## No.134 Set-13pcs Wrench, Combination

Number	S mm	Be-Cu g	Al-Cu g
134	8, 10, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30, 32	3485	3175

## No.135 Wrench, Combination



- DIN3113 Die forged
- Both ends generally fit the same size of bolts and nuts.



Number	S mm	L mm	Be-Cu g	Al-Cu g
135-6	6	105	22	20
135-7	7	120	37	34
135-8	8	120	37	34
135-9	9	135	55	50
135-10	10	135	55	50
135-11	11	150	75	75
135-12	12	150	75	70
135-13	13	175	122	110
135-14	14	175	122	110
135-15	15	195	160	145
135-16	16	195	155	140
135-17	17	195	155	140
135-18	18	215	210	190
135-19	19	215	210	190
135-20	20	230	225	200
135-21	21	230	225	200
135-22	22	245	250	220
135-23	23	265	265	233
135-24	24	265	260	230
135-25	25	265	260	230
135-26	26	290	420	380
135-27	27	290	420	380
135-30	30	320	560	500
135-32	32	340	670	600
135-34	34	360	850	750
135-35	35	360	890	800
135-36	36	360	890	800
135-38	38	395	1200	1150
135-41	41	430	1440	1300
135-46	46	480	1890	1700
135-50	50	520	2220	2000
135-55	55	560	2460	2230
135-60	60	595	3300	2950
135-65	65	595	3250	2900
135-70	70	630	4550	4100

Number	S inch	L mm	Be-Cu g	Al-Cu g
135A-1002	1/4	105	22	20
135A-1004	5/16	120	37	34
135A-1006	3/8	135	55	50
135A-1008	7/16	150	75	70
135A-1010	1/2	175	125	115
135A-1012	9/16	175	122	110
135A-1014	19/32	195	160	145
135A-1016	5/8	195	155	140
135A-1018	11/16	195	155	140
135A-1020	3/4	215	210	190
135A-1022	13/16	230	225	200
135A-1024	7/8	245	250	225
135A-1026	15/16	265	260	230
135A-1028	1	290	420	380
135A-1030	1-1/16	290	420	380
135A-1032	1-1/8	320	560	500
135A-1034	1-3/16	320	560	500
135A-1036	1-1/4	340	670	600
135A-1038	1-5/16	360	850	750
135A-1040	1-3/8	360	890	800



**No.136 Wrench, Combination**



- DIN3113 Die forged
- Both ends generally fit the same size of bolts and nuts.

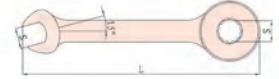


Number	S mm	L mm	Be-Cu g	Al-Cu g
136-6	6	105	18	16
136-7	7	120	40	40
136-8	8	120	40	40
136-9	9	135	45	42
136-10	10	135	45	42
136-11	11	150	65	60
136-12	12	150	65	60
136-13	13	175	90	82
136-14	14	175	90	82
136-15	15	195	140	125
136-16	16	195	140	125
136-17	17	195	140	125
136-18	18	215	180	165
136-19	19	215	180	165
136-20	20	215	180	165
136-21	21	245	280	260
136-22	22	245	280	260
136-23	23	265	320	290
136-24	24	265	320	290
136-25	25	265	500	455
136-26	26	290	500	455
136-27	27	290	500	455
136-30	30	320	700	635
136-32	32	340	780	710
136-34	34	360	1000	910
136-36	36	360	1000	910
136-38	38	430	1450	1310
136-41	41	430	1420	1190
136-46	46	480	1760	1590
136-50	50	520	2020	1830
136-55	55	560	2000	1810
136-60	60	595	2920	2640
136-65	65	595	3440	3110
136-70	70	630	4130	3730
136-75	75	630	4000	3620
136-80	80	660	5400	4880
136-85	85	660	5320	4800
136-90	90	720	7100	6410
136-95	95	720	7000	6250
136-100	100	780	8950	8100
136-110	110	840	11350	10369
136-120	120	900	12750	11560

**No.136A Wrench, Combination Ratchet**



- Q/ZBF-126A Precision Casting
- Different with the combination wrench, the ring end adopts ratchet structure.



Number	S mm	L mm	Be-Cu g	Al-Cu g
136A-17	17	220	250	225
136A-19	19	240	310	280
136A-22	22	270	420	380
136A-24	24	290	570	510
136A-27	27	315	750	675
136A-30	30	350	1000	900
136A-32	32	370	1155	1040

**No.137 Wrench, Combination**



- Q/ZBF-137 Die forged
- The offset box end can be used in deep concavity position.



Number	S mm	L mm	Be-Cu g	Al-Cu g
137-17	17	240	230	210
137-19	19	270	280	250
137-21	21	290	380	340
137-22	22	295	440	370
137-24	24	320	460	390
137-27	27	350	605	520





**No.138 Wrench, Bent Open End**



- QB/T2613.1 Die forged
- The bent open end can be used in narrow space.

Number	S mm	L mm	Be-Cu g	Al-Cu g
138-12	12	120	55	50
138-14	14	130	90	80
138-17	17	150	125	115
138-19	19	170	180	165
138-22	22	190	250	230
138-24	24	210	255	235
138-27	27	230	380	350
138-30	30	250	490	450
138-32	32	270	590	545
138-34	34	280	720	660
138-36	36	290	850	780
138-41	41	310	1090	1005
138-46	46	330	1340	1225
138-50	50	350	1615	1480
138-55	55	370	2135	1955

**No.140 Wrench, Single Open End**

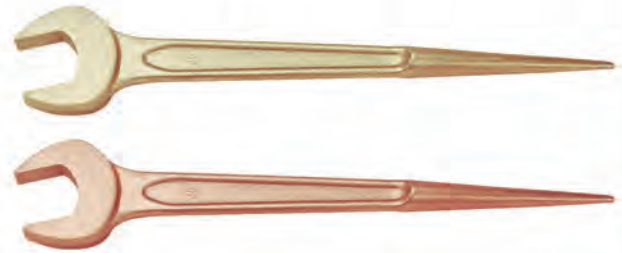


- DIN894 Die forged
- Used to tighten or loosen bolts and nuts, lightweight but more efficient

**No.140D Wrench, Single Open End**



**No.139 Wrench, Construction With Pin**



- QB/T2613.1 Die forged
- The sharp tail has a variety of uses.

Number	S mm	L mm	Be-Cu g	Al-Cu g
139-17	17	220	125	115
139-19	19	240	160	145
139-22	22	260	210	190
139-24	24	280	265	240
139-27	27	300	350	315
139-30	30	320	445	405
139-32	32	340	530	480
139-36	36	360	720	650
139-41	41	380	1010	910
139-46	46	400	1115	1010
139-50	50	420	1165	1055
139-55	55	450	1485	1345
139-60	60	480	2015	1825

Number	S mm	L mm	Be-Cu g	Al-Cu g
140-8	8	95	40	35
140-10	10	105	50	45
140-12	12	125	65	60
140-14	14	140	95	85
140-17	17	160	105	95
140-19	19	170	130	115
140-22	22	195	170	152
140-24	24	220	190	170
140-27	27	240	285	260
140-30	30	260	320	290
140-32	32	275	400	365
140-34	34	290	455	410
140-36	36	310	530	480
140-41	41	345	615	555
140-46	46	375	950	860
140-50	50	410	1080	950
140-55	55	450	1380	1200
140-60	60	490	1950	1700
140-65	65	530	2250	2000
140-70	70	570	2850	2550
140-75	75	610	3200	2800

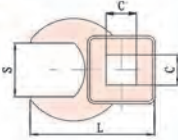
Number	S mm	L mm	Be-Cu g	Al-Cu g
140D-22	22	180	220	180
140D-24	24	196	235	195
140D-27	27	225	330	280
140D-30	30	255	450	390
140D-32	32	275	602	520
140D-36	36	300	901	775
140D-41	41	325	1040	950
140D-46	46	350	1180	1080



**No.140A Crow Foot Open End**



- Q/ZBF-140A Die forged
- Matched with torque wrench, used to perform protection when tighten or loosen special bolts and nuts.

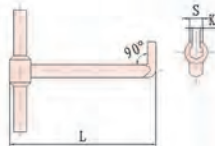


Number	C inch	S inch	L mm	Be-Cu g	Al-Cu g
140A-1002	3/8	9/16	35	55	50
140A-1004		5/8	37	55	50
140A-1006		11/16	38	55	50
140A-1008		7/8	43	60	55
140A-1010		1-1/8	50	83	75
140A-1012		1-1/4	53	95	85
140A-1014		1-3/8	56	103	90
140A-1016		1-1/2	59	130	120
140A-1018		1-7/8	72	180	160
140A-1020		2	75	190	165
140A-1022		2-1/4	81	200	180
140A-1024		1/2	14	40	60
140A-1026	16		43	62	58
140A-1028	17		43	62	58
140A-1030	19		49	105	95
140A-1032	20		49	105	95
140A-1034	22		52	120	102
140A-1036	27		59	145	125

**No.140C T-Handle Wrench**



- Q/ZBF-140C Die forged
- Used to tighten or loosen bolts and nuts, lightweight but more efficient.

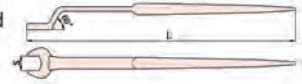


Number	S mm	K mm	L mm	Be-Cu g	Al-Cu g
140C-8	8	5	215	135	120
140C-10	10	6	215	140	125
140C-12	12	8	215	145	130
140C-14	14	10	215	150	135

**No.140B Wrench, Construction, Offset Type With Pin**



- GB/T 4388 Die forged
- The sharp tail has a variety of uses.



Number	S mm	L mm	Be-Cu g	Al-Cu g
140B-17	17	320	210	195
140B-19	19	350	320	290
140B-22	22	350	430	390
140B-24	24	370	480	430
140B-27	27	370	640	580
140B-30	30	400	800	720
140B-32	32	400	800	720
140B-36	36	430	950	860
140B-41	41	470	1270	1150
140B-46	46	500	1600	1445
140B-50	50	530	1885	1700
140B-55	55	560	2160	1950

**No.140E Rectangular Open End**

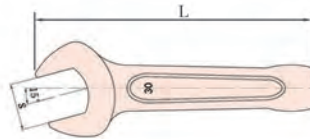


- Q/ZBF-140E Die forged
- Matched with torque wrench, used to perform protection when tighten or loosen special bolts and nuts.

Number	H*B mm	S mm	Be-Cu g	Al-Cu g
140E-1002	9*12	7	45	40
140E-1004		8	44	39
140E-1006		9	43	38
140E-1008		10	48	42
140E-1010		12	50	43
140E-1012		13	60	52
140E-1014		14	60	52
140E-1016		17	70	60
140E-1018		19	85	74
140E-1020	14*18	13	145	129
140E-1022		14	145	129
140E-1024		17	150	136
140E-1026		19	165	147
140E-1028		22	183	165
140E-1030		24	185	167
104E-1032		27	245	219
104E-1034		30	270	245
104E-1036		32	275	246
104E-1038		36	305	275
104E-1040		38	295	265
104E-1042		41	340	307



## No.141 Wrench, Striking Open



- DIN133 Die forged
- Used with a hammer to loosen or tighten large bolts and nuts.

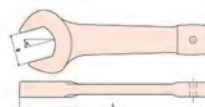
Number	S mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
141-17	17	125	150	135	20	3.10	2.84
141-19	19	125	150	135	20	3.10	2.84
141-22	22	135	195	175	20	3.90	3.55
141-24	24	150	245	220	20	5.00	4.60
141-27	27	175	385	350	20	8.45	7.70
141-30	30	190	465	420	20	10.10	9.20
141-32	32	190	515	460	20	10.60	9.65
141-36	36	210	675	615	12	8.77	8.00
141-41	41	230	955	860	10	10.43	9.50
141-46	46	250	1225	1100	8	10.40	9.45
141-50	50	275	1560	1420	6	9.70	8.80
141-55	55	305	2025	1830	4	8.10	7.80
141-60	60	315	2345	2120	4	9.90	9.0
141-65	65	335	3060	2780	/	/	/
141-70	70	370	4030	3660	/	/	/
141-75	75	375	4660	4030	/	/	/
141-80	80	400	5650	5130	/	/	/
141-85	85	400	6000	5400	/	/	/
141-90	90	445	7800	7050	/	/	/
141-95	95	445	7730	7000	/	/	/
141-100	100	485	11600	10500	/	/	/
141-110	110	513	13500	12000	/	/	/

Number	S inch	L mm	Be-Cu g	Al-Cu g
141-1002	3/4	125	150	135
141-1004	7/8	135	195	175
141-1006	15/16	150	245	220
141-1008	1	175	335	300
141-1010	1-1/8	190	435	390
141-1012	1-1/4	190	515	460
141-1014	1-7/16	210	800	730
141-1016	1-1/2	220	860	780
141-1018	1-5/8	230	955	860
141-1020	1-3/4	250	1225	1100
141-1022	1-7/8	250	1225	1100
141-1024	2	275	1550	1400
141-1028	2-1/8	305	1850	1680
141-1030	2-1/4	315	2190	1970
141-1032	2-3/8	315	2190	1970
141-1034	2-1/2	335	3060	2780
141-1036	2-3/4	370	4030	3660
141-1038	3	375	4200	3800
141-1040	3-1/8	400	5650	5130
141-1042	3-1/2	445	7800	7050
141-1044	3-3/4	445	7730	7000
141-1046	4	485	11600	10500

## No.141A Wrench, Striking Open



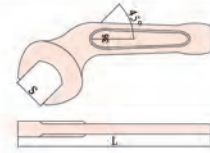
- Q/ZBF-141C Precision Casting
- Used with a hammer to loosen or tighten large bolts and nuts.



Number	S mm	L mm	Be-Cu g	Al-Cu g
141A-17	17	130	133	120
141A-19	19	140	172	155
141A-22	22	155	252	230
141A-24	24	165	305	275
141A-27	27	175	385	350
141A-30	30	185	515	470
141A-32	32	195	585	535
141A-36	36	210	851	780
141A-41	41	225	1055	965
141A-46	46	240	1245	1140
141A-50	50	255	1580	1445
141A-55	55	270	1865	1705
141A-60	60	285	2205	2015
141A-65	65	305	3060	2805
141A-70	70	325	3620	3310
141A-75	75	345	3905	3570
141A-80	80	365	4845	4440
141A-90	90	385	5370	4920



## No.141B Wrench, Bent Striking Open



- Q/ZBF-141B Die forged
- Different from the slogging open, the bent head (45 degree angle) can be used in special space.

Number	S mm	L mm	Be-Cu g	Al-Cu g
141B-17	17	140	155	140
141B-19	19	140	155	140
141B-22	22	150	190	170
141B-24	24	150	245	220
141B-27	27	175	420	380
141B-30	30	190	480	440
141B-32	32	190	480	440
141B-34	34	210	680	620
141B-36	36	210	680	620
141B-38	38	230	980	800
141B-41	41	230	950	860
141B-46	46	250	1270	1150
141B-50	50	275	1380	1250
141B-55	55	305	1780	1620
141B-60	60	315	2560	2350
141B-65	65	335	3000	2750



## No.142 Set-9pcs Wrench, Double Open End

Number	S1*S2 mm	Be-Cu g	Al-Cu g
142	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32	2810	2570

## No.143 Set-11pcs Wrench, Double Open End

Number	S1*S2 mm	Be-Cu g	Al-Cu g
143	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3530	3230

## No.144 Set-13pcs Wrench, Double Open End

Number	S1*S2 mm	Be-Cu g	Al-Cu g
144	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3610	3295

## No.145 Wrench, Double Open End



- QB/T 2613.1 Die forged
- Used to tighten or loosen bolts and nuts.

Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
145-0607	6*7	90	40	35
145-0709	7*9	100	45	40
145-0810	8*10	100	60	55
145-0911	9*11	120	75	70
145-1012	10*12	120	95	87
145-1214	12*14	130	145	133
145-1417	14*17	150	180	165
145-1719	17*19	170	235	215
145-1922	19*22	185	330	302
145-2224	22*24	210	445	430
145-2427	24*27	230	535	490
145-2730	27*30	250	650	593
145-3032	30*32	265	775	710
145-3036	30*36	285	925	845
145-3234	32*34	285	1055	965
145-3236	32*36	300	1155	1055
145-3436	34*36	300	1475	1350
145-3641	36*41	330	1610	1470
145-4146	41*46	360	1790	1640
145-4650	46*50	370	2220	2030
145-5055	50*55	385	2610	2385
145-5060	50*60	400	3085	2820
145-5560	55*60	415	3270	2990
145-6065	60*65	435	4540	4150
145-6570	65*70	460	6130	5605

## No.146 Wrench, Double Open End



- QB/T2613.1 Die forged
- Used to tighten or loosen bolts and nuts.



Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
146-0507	5.5*7	90	23	20
146-0607	6*7	90	25	22
146-0709	7*9	100	28	25
146-0810	8*10	100	34	31
146-0911	9*11	110	50	45
146-1011	10*11	120	52	47
146-1012	10*12	120	60	55
146-1014	10*14	130	68	62
146-1213	12*13	130	73	67
146-1214	12*14	130	75	69
146-1317	13*17	150	110	100
146-1415	14*15	143	115	105
146-1417	14*17	150	120	110
146-1617	16*17	160	130	120
146-1618	16*18	160	145	130
146-1719	17*19	170	150	135
146-1819	18*19	170	200	180
146-1921	19*21	185	210	190
146-1922	19*22	185	220	200
146-1924	19*24	190	235	210
146-2022	20*22	200	250	225
146-2123	21*23	200	270	235
146-2126	21*26	215	275	245

Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
146-2224	22*24	210	312	285
146-2227	22*27	215	320	292
146-2326	23*26	220	330	302
146-2427	24*27	230	345	310
146-2430	24*30	235	365	330
146-2528	25*28	235	365	330
146-2632	26*32	255	465	420
146-2730	27*30	250	485	430
146-2732	27*32	255	600	549
146-3032	30*32	265	610	540
146-3036	30*36	285	815	730
146-3234	32*34	285	815	730
146-3236	32*36	300	885	800
146-3436	34*36	300	885	800
146-3638	36*38	330	1350	1210
146-3641	36*41	330	1350	1210
146-3840	38*40	330	1350	1210
146-4146	41*46	360	1690	1530
146-4650	46*50	370	2050	1850
146-5055	50*55	385	2160	1950
146-5060	50*60	400	2488	2275
146-5560	55*60	415	2700	2450
146-6065	60*65	435	3950	3600

## No.146A Wrench, Double Open End



- DIN895 Die forged
- Used to tighten or loosen bolts and nuts, DIN 895 design, high grade appearance.

Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
146A-1002	14*17	160	110	100
146A-1004	17*19	180	120	110
146A-1006	19*22	200	160	140
146A-1008	19*24	220	180	160
146A-1010	22*24	230	240	220
146A-1012	24*27	255	340	305
146A-1014	27*30	280	420	380
146A-1016	30*32	300	530	480
146A-1018	32*36	320	635	570
146A-1020	34*36	330	740	670
146A-1022	36*41	350	900	810
146A-1024	41*46	380	1060	955
146A-1026	46*50	420	1310	1190
146A-1028	50*55	460	1900	1720
146A-1030	55*60	500	2800	2530



## No.147 Wrench, Double Open End



- QB/T2613.1 Die forged
- Used to tighten or loosen bolts and nuts.



Number	S1*S2 inch	L mm	Be-Cu g	Al-Cu g
147-1002	1/4*5/16	90	25	20
147-1004	5/16*3/8	100	35	30
147-1006	3/8*7/16	120	50	45
147-1008	3/8*1/2	120	50	45
147-1010	7/16*1/2	130	75	65
147-1012	1/2*9/16	130	75	65
147-1014	9/16*5/8	150	100	90
147-1016	5/8*11/16	160	135	115
147-1018	5/8*3/4	170	155	135
147-1020	11/16*3/4	170	155	135
147-1022	3/4*13/16	185	210	185
147-1024	3/4*7/8	185	210	185
147-1026	13/16*7/8	190	260	235
147-1028	7/8*15/16	210	290	250
147-1030	15/16*1	220	350	315
147-1032	1*1-1/16	230	400	345
147-1034	1-1/16*1-1/8	250	400	345
147-1036	1-1/8*1-3/16	250	510	450
147-1038	1-3/16*1-1/4	265	680	600



## No.148 Set-9pcs Wrench, Double Box Offset

Number	S1*S2 mm	Be-Cu g	Al-Cu g
148	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32	2815	2575

## No.149 Set-11pcs Wrench, Double Box Offset

Number	S1*S2 mm	Be-Cu g	Al-Cu g
149	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3585	3275

## No.150 Set-13pcs Wrench, Double Box Offset

Number	S1*S2 mm	Be-Cu g	Al-Cu g
150	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32	3630	3320

## No.151 Wrench, Double Box Offset



Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
151-0507	5.5*7	115	22	20
151-0607	6*7	115	25	23
151-0709	7*9	130	50	46
151-0810	8*10	130	55	50
151-0911	9*11	140	70	65
151-1011	10*11	140	80	75
151-1012	10*12	140	85	78
151-1213	12*13	160	120	110
151-1214	12*14	160	151	140
151-1417	14*17	220	205	180
151-1618	16*18	220	220	202
151-1719	17*19	250	225	205
151-1722	17*22	250	290	265
151-1819	18*19	250	295	270
151-1922	19*22	280	310	280
151-1924	19*24	310	355	320
151-2123	21*23	285	405	360
151-2126	21*26	320	450	410
151-2224	22*24	310	455	415
151-2427	24*27	340	520	475
151-2430	24*30	350	550	501
151-2528	25*28	350	580	530
151-2632	26*32	370	640	570
151-2730	27*30	360	705	645
151-3032	30*32	380	805	735
151-3036	30*36	405	1145	1030
151-3234	32*34	400	1080	980
151-3236	32*36	405	1145	1030
151-3436	34*36	420	1165	1065
151-3641	36*41	445	1600	1465
151-4146	41*46	470	2077	1905
151-4650	46*50	490	2530	2315
151-5055	50*55	510	2580	2360
151-5060	50*60	520	3002	2745
151-5560	55*60	530	3203	2905
151-6070	60*70	560	4105	3605

## No.151A Wrench, Double Box Offset



- DIN838 Die forged
- Used to tighten or loosen bolts and nuts, suitable for use where space is narrow or deep concavity.

## No.152 Wrench, Double Box Offset



- QB/T2613.5 Precision Casting
- Used to tighten or loosen bolts and nuts, suitable for use where space is narrow or deep concavity,
- American type.



Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
152-0507	5.5*7	120	40	35
152-0607	6*7	122	45	40
152-0709	7*9	126	50	46
152-0810	8*10	130	55	50
152-0910	9*10	135	60	55
152-0911	9*11	140	70	65
152-1012	10*12	160	85	80
152-1013	10*13	164	90	85
152-1014	10*14	168	110	100
152-1113	11*13	172	110	105
152-1213	12*13	176	120	115
152-1214	12*14	180	125	110
152-1417	14*17	220	190	170
152-1618	16*18	240	230	205
152-1719	17*19	250	240	215
152-1819	18*19	268	295	270
152-1922	19*22	280	322	295
152-2022	20*22	292	365	330
152-2123	21*23	298	393	360
152-2224	22*24	310	450	415
152-2326	23*26	325	465	435
152-2427	24*27	340	520	476
152-2528	25*28	346	580	530
152-2730	27*30	360	705	645
152-3032	30*32	380	805	736
152-3234	32*34	398	890	800
152-3436	34*36	418	1070	960
152-3638	36*38	434	1200	1080
152-3641	36*41	450	1560	1400
152-4146	41*46	470	1840	1650
152-4650	46*50	490	2530	2314
152-5055	50*55	510	2580	2360

Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
151A-1719	17*19	280	180	160
151A-1922	19*22	300	210	190
151A-1924	19*24	320	320	290
151A-2123	21*23	320	370	335
151A-2224	22*24	330	420	380
151A-2427	24*27	340	480	430
151A-2730	27*30	350	530	480
151A-3032	30*32	370	690	620
151A-3236	32*36	430	1000	910
151A-3641	36*41	470	1270	1150
151A-4146	41*46	500	1580	1430
151A-4650	46*50	525	1900	1720
151A-5055	50*55	550	2850	2580

## No.152A Wrench, Double Box Offset



- QB/T2613.5 Precision Casting
- Used to tighten or loosen bolts and nuts, suitable for use where space is limited instead of double end open spanner.

Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
152A-0607	6*7	90	45	40
152A-0709	7*9	90	55	50
152A-0810	8*10	100	80	70
152A-0911	9*11	100	90	80
152A-1012	10*12	110	125	110
152A-1214	12*14	125	160	140
152A-1417	14*17	140	230	200
152A-1719	17*19	170	310	270
152A-1922	19*22	185	420	370
152A-1924	19*24	185	450	400
152A-2123	21*23	185	490	430
152A-2126	21*26	185	500	435
152A-2224	22*24	210	670	600
152A-2326	23*26	210	670	600
152A-2427	24*27	225	720	640
152A-2430	24*30	225	740	650
152A-2528	25*28	225	750	670
152A-2730	27*30	250	870	780
152A-3032	30*32	275	1100	980





## No.153 Wrench, Double Box Offset



- QB/T2613.5 Precision Casting
- Used to tighten or loosen bolts and nuts, suitable for use where space is limited instead of double end open spanner.

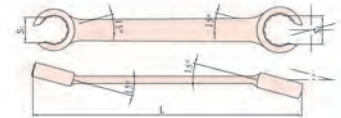


Number	S1*S2 inch	L mm	Be-Cu g	Al-Cu g
153-1002	1/4*5/16	115	30	27
153-1004	5/16*3/8	125	45	40
153-1006	3/8*7/16	140	60	55
153-1008	7/16*1/2	155	90	80
153-1010	1/2*9/16	175	115	105
153-1012	9/16*5/8	215	190	170
153-1014	5/8*11/16	220	205	190
153-1016	11/16*3/4	245	235	215
153-1018	3/4*13/16	255	295	270
153-1020	13/16*7/8	275	350	320
153-1022	7/8*15/16	305	405	370
153-1024	15/16*1	310	490	375
153-1026	1*1-1/16	330	535	490
153-1028	1-1/16*1-1/8	330	570	520
153-1030	1-1/8*1-3/16	370	830	760
153-1032	1-3/16*1-1/4	370	835	765
153-1034	1-1/4*1-5/16	380	1020	935
153-1036	1-5/16*1-3/8	410	1050	960
153-1038	1-3/8*1-7/16	410	1425	1310
153-1040	1-7/16*1-5/8	450	1585	1450
153-1042	1-1/2*1-9/16	460	1803	1640
153-1044	1-5/8*1-13/16	470	2077	1905
153-1046	1-13/16*2	490	2530	2315
153-1048	2*2-3/16	510	2580	2360
153-1050	2*2-3/8	520	3002	2745
153-1052	2-3/16*2-3/8	530	3203	2905
153-1054	2-3/8*2-3/4	560	4105	3605

## No.153B Flare Nut Open Ring Wrench



- DIN3118 Die forged
- It is used for gripping the nuts on the ends of tubes. Similar to a box-end wrench but, instead of encircling the nut completely, it has a narrow opening just wide enough to allow the wrench to fit over the tube, and thick jaws to increase the contact area with the nut.



Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
153B-0607	6*7	95	17	15
153B-0810	8*10	115	32	29
153B-0911	9*11	125	37	34
153B-1012	10*12	140	55	48
153B-1214	12*14	145	70	62
153B-1415	14*15	155	90	80
153B-1417	14*17	165	100	90
153B-1618	16*18	170	127	115
153B-1719	17*19	185	132	120
153B-1922	19*22	200	180	165
153B-2224	22*24	220	240	215
153B-2427	24*27	255	320	288
153B-2430	24*30	270	375	340
153B-2528	25*28	265	380	345
153B-2730	27*30	280	430	389
153B-3032	30*32	295	498	450
153B-3034	30*34	310	588	535
153B-3036	30*36	330	657	595
153B-3436	34*36	345	758	685
153B-3641	36*41	365	935	845

## No.153A Wrench, Double Flat Box



- DIN837 Die forged
- used to tighten or loosen bolts and nuts, suitable for use where space is limited instead of double end open spanner.

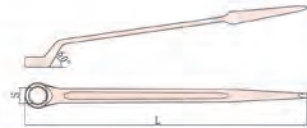


Number	S1*S2 mm	L mm	Be-Cu g	Al-Cu g
153A-0810	8*10	115	32	29
153A-0911	9*11	125	37	34
153A-1012	10*12	140	55	48
153A-1214	12*14	145	70	62
153A-1417	14*17	165	100	90
153A-1719	17*19	185	132	120
153A-1922	19*22	200	180	165
153A-2224	22*24	220	240	215
153A-2427	24*27	255	320	280
153A-2730	27*30	280	385	340
153A-3032	30*32	295	465	415
153A-3036	30*36	330	600	545
153A-3641	36*41	365	935	845

**No.154 Wrench, Construction**



- DIN837 Die forged
- Used to tighten or loosen bolts and nuts.
- Sharp tail.



Number	S mm	L mm	Be-Cu g	Al-Cu g
154-10	10	230	90	85
154-12	12	250	110	105
154-14	14	270	145	130
154-17	17	310	200	180
154-19	19	330	250	225
154-22	22	350	320	290
154-24	24	370	400	360
154-27	27	400	500	450
154-30	30	430	700	630
154-32	32	430	660	600
154-36	36	460	900	800
154-41	41	490	1090	990
154-46	46	520	1560	1420
154-50	50	540	1700	1550
154-55	55	560	2050	1850
154-60	60	610	2820	2550

**No.155 Wrench, Construction**



- Q/ZBF-155 Precision Casting
- Used to tighten or loosen bolts and nuts.
- Sharp tail.

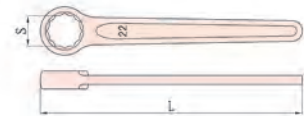


Number	S mm	L mm	Be-Cu g	Al-Cu g
155-8	8	140	60	55
155-10	10	150	70	64
155-11	11	160	80	73
155-12	12	170	90	83
155-13	13	180	102	91
155-14	14	190	115	102
155-15	15	200	125	110
155-16	16	210	130	122
155-17	17	220	165	145
155-18	18	230	180	165
155-19	19	240	230	195
155-20	20	250	242	220
155-21	21	260	251	230
155-22	22	270	303	274
155-23	23	280	330	302
155-24	24	290	361	330
155-27	27	320	472	430
155-30	30	350	650	585
155-32	32	370	680	620
155-34	34	380	803	730
155-36	36	390	950	850
155-38	38	400	1005	880
155-41	41	410	1430	1025
155-46	46	420	1460	1310
155-50	50	430	1580	1420
155-55	55	440	1870	1690
155-60	60	460	2330	2095
155-65	65	480	2802	2535
155-70	70	500	3150	2845

**No.156 Wrench, Single Box**



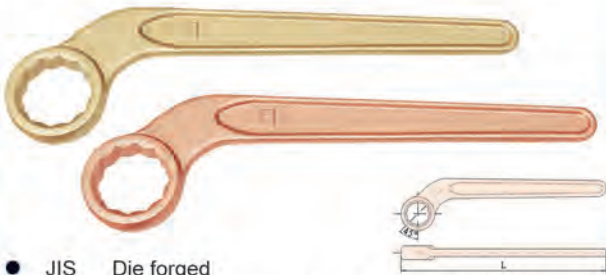
- QB/T2613.5 Die forged
- Used to tighten or loosen bolts and nuts



Number	S mm	L mm	Be-Cu g	Al-Cu g
156-8	8	110	40	35
156-10	10	120	50	45
156-12	12	130	65	60
156-14	14	140	90	80
156-17	17	155	105	90
156-19	19	170	130	95
156-22	22	190	175	150
156-24	24	215	220	200
156-27	27	230	270	245
156-30	30	255	370	335
156-32	32	265	425	385
156-36	36	295	550	500
156-41	41	330	825	750
156-46	46	365	1120	1010
156-50	50	400	1270	1150
156-55	55	445	1590	1440
156-60	60	474	1850	1680
156-65	65	510	2060	1875
156-70	70	555	2530	2300
156-75	75	590	2700	2450



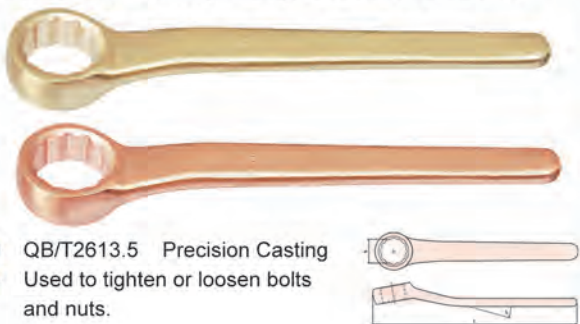
**No.157 Wrench, Single Bent Box**



- JIS Die forged
- Used to tighten or loosen bolts and nuts, suitable for use where space is limited instead of straight single box wrench.

Number	S mm	L mm	Be-Cu g	Al-Cu g
157-10	10	119	60	50
157-12	12	151	85	75
157-14	14	151	85	75
157-16	16	174	150	130
157-17	17	174	160	145
157-19	19	207	195	190
157-22	22	207	205	180
157-24	24	250	330	295
157-27	27	250	315	275
157-30	30	295	480	430
157-32	32	295	455	410
157-34	34	307	650	580
157-36	36	307	650	580
157-38	38	340	830	740
157-41	41	340	810	720
157-46	46	370	1230	1100
157-50	50	400	1400	1255
157-55	55	430	1930	1720
157-60	60	450	2100	1900
157-65	65	470	2360	2135
157-70	70	490	3080	2800
157-75	75	510	3600	3250
157-80	80	530	4460	4030

**No.158 Wrench, Single Box Offset**



- QB/T2613.5 Precision Casting
- Used to tighten or loosen bolts and nuts.

Number	S mm	L mm	Be-Cu g	Al-Cu g
158-17	17	150	135	122
158-19	19	170	175	150
158-21	21	183	220	190
158-22	22	190	230	202
158-24	24	210	302	250
158-27	27	230	380	330
158-30	30	250	505	430
158-32	32	270	620	540
158-36	36	290	805	710

**No.157A Wrench, Single Bent Box**



- JIS Die forged
- Used to tighten or loosen bolts and nuts, suitable for use where space is limited instead of straight single box wrench.

Number	S mm	L mm	Be-Cu g	Al-Cu g
157A-22	22	295	420	390
157A-24	24	325	520	490
157A-27	27	350	780	720
157A-30	30	365	940	870
157A-32	32	370	1050	980
157A-36	36	385	1500	1380
157A-41	41	415	2040	1880
157A-46	46	440	2350	2170
157A-50	50	520	3650	3360
157A-55	55	550	4150	3850
157A-60	60	575	5300	4950
157A-65	65	590	5650	5300
157A-70	70	600	6150	5750
157A-75	75	600	6800	6350

**No.159 Wrench, Single Box Convex**

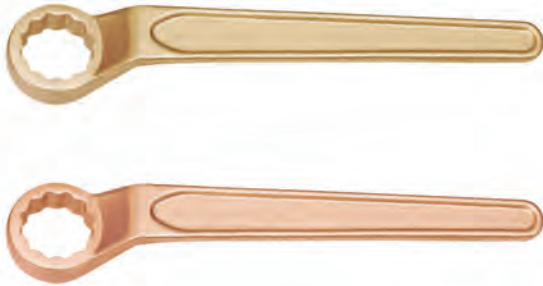


- DIN3111 Precision Casting
- Used to tighten or loosen bolts and nuts, the convex head are suitable for use where space is deep concavity.

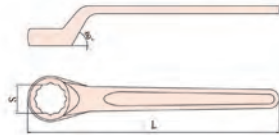


Number	S mm	L mm	Be-Cu g	Al-Cu g
159-10	10	110	75	65
159-12	12	120	115	102
159-14	14	130	135	120
159-17	17	150	145	130
159-19	19	170	185	160
159-22	22	190	240	215
159-24	24	210	320	290
159-27	27	230	401	370
159-30	30	250	520	475
159-32	32	270	650	595
159-34	34	280	780	715
159-36	36	290	802	730

**No.159A Wrench, Single Box Offset**



- QB/T2613.5 Die forged
- Used to tighten or loosen bolts and nuts, suitable for use where space is limited or deep concavity.



Number	S mm	L mm	Be-Cu g	Al-Cu g
159A-22	22	190	185	165
159A-24	24	215	235	210
159A-27	27	230	310	270
159A-30	30	255	430	380
159A-32	32	265	450	400
159A-36	36	295	610	540
159A-41	41	330	855	770
159A-46	46	365	1000	900
159A-50	50	400	1350	1200
159A-55	55	445	2000	1800
159A-60	60	474	2260	2050
159A-65	65	510	2800	2500
159A-70	70	555	3250	2900
159A-75	75	590	3450	3090



**No.160 Wrench, Striking Box**



- DIN7444 Die forged
- Slugging Wrenches are designed for loosening or tightening nuts and bolts where impact or shock loading is required. These are used with hammer.

Number	S mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
160-17	17	145	140	125	20	3.18	2.90
160-19	19	145	140	125	20	3.18	2.90
160-22	22	155	180	160	20	4.05	3.73
160-24	24	165	250	220	20	5.37	4.93
160-27	27	175	350	315	20	7.05	6.50
160-30	30	185	475	430	20	9.00	8.30
160-32	32	185	490	450	20	9.50	8.70
160-34	34	200	540	490	16	9.00	8.25
160-36	36	205	580	520	16	9.50	8.70
160-38	38	215	680	620	12	8.10	7.40
160-41	41	225	755	680	12	9.40	8.55
160-46	46	235	990	890	10	10.00	9.15
160-50	50	250	1145	1030	8	9.70	8.85
160-55	55	265	1440	1300	8	11.20	10.20
160-60	60	274	1620	1450	6	9.95	9.06
160-65	65	298	1995	1800	/	/	/
160-70	70	320	2435	2200	/	/	/
160-75	75	326	3010	2720	/	/	/
160-80	80	350	3600	3250	/	/	/
160-85	85	355	4330	3915	/	/	/
160-90	90	380	5200	4700	/	/	/
160-95	95	390	5450	4920	/	/	/
160-100	100	410	6750	6100	/	/	/
160-105	105	420	7000	6320	/	/	/
160-110	110	445	8000	7250	/	/	/
160-120	120	480	11000	9930	/	/	/
160-130	130	520	12610	11400	/	/	/
160-140	140	520	13000	11750	/	/	/
160-150	150	565	14500	13100	/	/	/





## No.160A Wrench, Striking Box



- Q/ZBF-160A Precision Casting
- Slugging Wrenches are designed for loosening or tightening nuts and bolts where impact or shock loading is required. These are used with hammer.

Number	S mm	L mm	Be-Cu g	Al-Cu g
160A-17	17	108	105	95
160A-19	19	117	135	125
160A-22	22	127	192	185
160A-24	24	138	270	250
160A-27	27	150	350	320
160A-30	30	163	460	420
160A-32	32	177	610	555
160A-34	34	192	690	630
160A-36	36	208	780	710
160A-38	38	215	875	805
160A-41	41	225	985	902
160A-46	46	243	1275	1160
160A-50	50	254	1545	1410
160A-55	55	264	1720	1560
160A-60	60	275	2080	1880
160A-65	65	286	2440	2202
160A-70	70	298	2735	2470
160A-75	75	311	3190	2905
160A-80	80	325	3485	3160
160A-85	85	339	3990	3650
160A-90	90	355	4350	3960
160A-95	95	370	5046	4560
160A-100	100	387	5630	5125
160A-105	105	405	6250	5690
160A-110	110	410	6750	6100
160A-120	120	425	7405	6735
160A-130	130	450	7905	7205
160A-140	140	465	8105	7405

## No.160B Safety Handrail for Striking Wrench

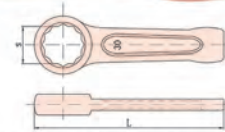


- Matched with striking wrench to tighten or loosen the bolts and nuts in special space. It is safety & reliable.

Number	Size mm	L mm	Be-Cu g	Al-Cu g
160B-1002	17-50	500	1100	1000
160B-1004	50-100	610	1430	1300
160B-1006	100-150	650	1650	1500



## No.161 Wrench, Striking Box

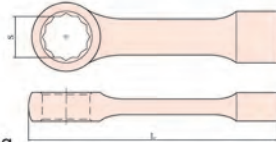
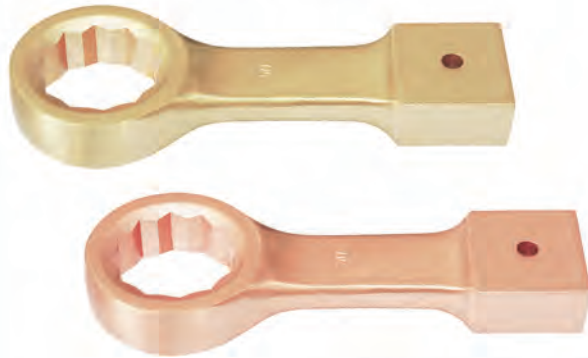


- DIN7444 Die forged
- Slugging Wrenches are designed for loosening or tightening nuts and bolts where impact or shock loading is required. These are used with hammer.

Number	S inch	L mm	Be-Cu g	Al-Cu g
161-1002	11/16	145	210	190
161-1004	3/4	145	200	180
161-1006	7/8	155	245	220
161-1008	1	175	350	315
161-1010	1-1/16	175	350	315
161-1012	1-1/8	185	455	410
161-1014	1-3/16	185	475	430
161-1016	1-1/4	185	470	425
161-1018	1-3/8	200	560	500
161-1020	1-1/2	215	790	710
161-1022	1-5/8	225	755	680
161-1024	1-3/4	235	1020	920
161-1026	1-13/16	235	990	890
161-1028	2	250	1145	1030



**No.162 Wrench, Striking Box**

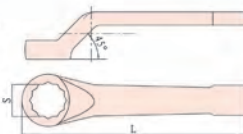


- Q/ZBF-162 Precision Casting
- This is a specialized thick, stocky wrench with a block end to the handle specifically designed for use with a hammer, enabling one to impart great force.

Number	S mm	L mm	Be-Cu g	Al-Cu g
162-32	32	180	790	710
162-36	36	190	990	900
162-41	41	200	1450	1300
162-46	46	210	1770	1600
162-50	50	230	1930	1730
162-55	55	260	3400	3060
162-60	60	290	4200	3800
162-65	65	320	5430	4900
162-70	70	350	6480	5850
162-75	75	380	7890	7130
162-80	80	410	10350	9350



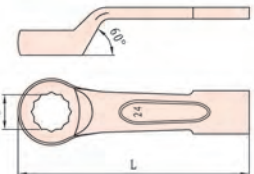
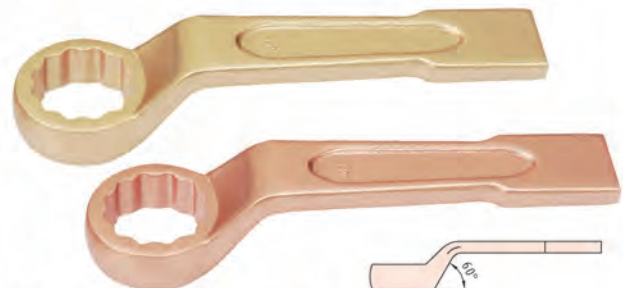
**No.162A Wrench, Offset Striking Box**



- Q/ZBF-162A Precision Casting
- Offset pattern, because of its offset angle it raises the level of wrench above surface.

Number	S mm	L mm	Be-Cu g	Al-Cu g
162A-27	27	245	670	600
162A-30	30	270	970	870
162A-32	32	270	970	870
162A-36	36	280	1060	950
162A-41	41	305	1430	1280
162A-46	46	310	1830	1640
162A-50	50	320	2100	1890
162A-55	55	320	2350	2110
162A-60	60	355	2900	2610
162A-65	65	380	3470	3120
162A-70	70	400	4050	3640
162A-75	75	420	4350	4180
162A-80	80	435	5500	4950
162A-85	85	440	6500	5850
162A-90	90	445	6820	6320
162A-95	95	455	7880	7000
162A-100	100	455	7900	7130
162A-110	110	460	8400	7590
162A-120	120	470	8900	8040

**No.162B Wrench, Offset Striking Box**



- Q/ZBF-162B Die forged
- Offset pattern, because of its offset angle it raises the level of wrench above surface.

Number	S mm	L mm	Be-Cu g	Al-Cu g
162B-24	24	160	370	335
162B-27	27	180	475	430
162B-30	30	200	615	555
162B-32	32	200	615	555
162B-36	36	220	825	745
162B-41	41	240	950	860
162B-46	46	250	1330	1200
162B-50	50	270	1650	1450
162B-55	55	295	2000	1800
162B-60	60	317	2430	2200
162B-65	65	330	2750	2490
162B-70	70	350	3385	3060
162B-75	75	370	4655	4205
162B-80	80	385	5020	4540



**No.163 Wrench, Striking Convex Box**

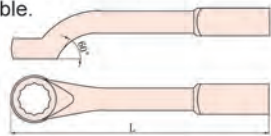


- Q/ZBF-163 Die forged
- Used to tighten or loosen large bolts and nuts. The convex head are suitable for use where space is deep concavity.

**No.163A Offset Slogging Box Wrench (American Type)**



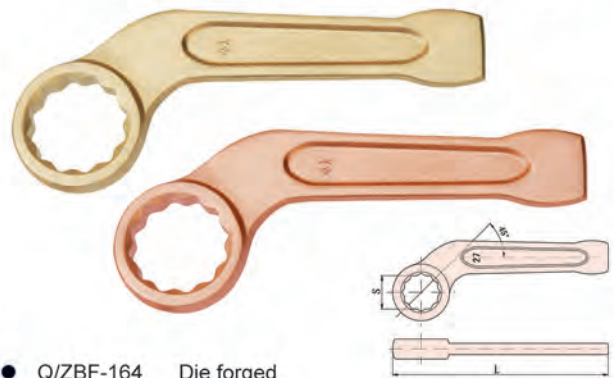
- Q/ZBF-163A Die forged
- Used to tighten or loosen large bolts and nuts.
- American type, more durable.



Number	S mm	L mm	Be-Cu g	Al-Cu g
163A-24	24	240	950	860
163A-27	27	270	1150	1035
163A-30	30	280	1480	1340
163A-32	32	290	1690	1530
163A-36	36	300	1900	1720
163A-41	41	320	2110	1910
163A-46	46	340	2750	2485
163A-50	50	350	3170	2870
163A-55	55	360	4125	3730
163A-60	60	375	4335	3920
163A-65	65	390	4440	4010
163A-70	70	400	5400	4875
163A-75	75	420	5810	5255
163A-80	80	440	7295	6600
163A-90	90	480	9740	8800
163A-100	100	515	11300	10200
163A-110	110	550	13400	12100
163A-120	120	585	15500	14000
163A-130	130	620	17700	16000

Number	S mm	L mm	Be-Cu g	Al-Cu g
163-22	22	165	330	300
163-24	24	165	330	300
163-27	27	175	370	335
163-30	30	185	530	480
163-32	32	185	475	430
163-36	36	210	740	670
163-41	41	227	950	860
163-46	46	245	1270	1145
163-50	50	257	1590	1435
163-55	55	267	1800	1625
163-60	60	278	2115	1910
163-65	65	298	2580	2340
163-70	70	320	2960	2680
163-75	75	326	3350	3000

**No.164 Wrench, Striking Box Bent**

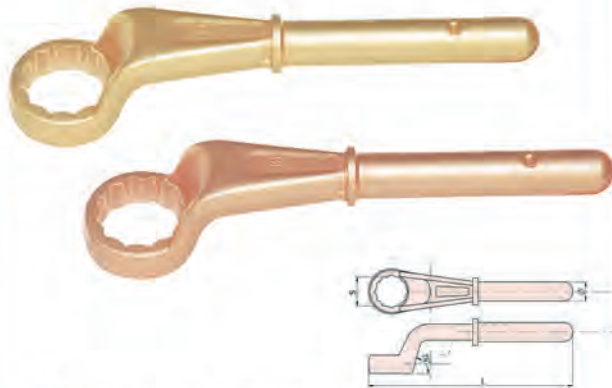


- Q/ZBF-164 Die forged
- Used to tighten or loosen large bolts and nuts, the bent head are suitable for use where space is narrow or deep concavity.

Number	S mm	L mm	Be-Cu g	Al-Cu g
164-24	24	160	280	240
164-27	27	175	370	335
164-30	30	190	525	475
164-32	32	190	500	450
164-36	36	210	630	570
164-41	41	225	750	650
164-46	46	240	1160	1030
164-50	50	255	1240	1100
164-55	55	270	1450	1285
164-60	60	285	1820	1640
164-65	65	300	2645	2390
164-70	70	320	2960	2675



## No.164A Ring Wrench For Extension



- Q/ZBF-164A Die forged
- Matched with extra long extension bar, save effort.

Number	S mm	L mm	Be-Cu g	Al-Cu g
164A-24	24	180	475	430
164A-27	27	190	530	480
164A-30	30	200	580	525
164A-32	32	235	795	715
164A-36	36	245	900	815
164A-41	41	265	1060	955
164A-46	46	280	1480	1340
164A-50	50	290	1690	1530
164A-55	55	300	1850	1670
164A-60	60	345	2960	2670
164A-65	65	355	3380	3055
164A-70	70	365	3910	3530
164A-75	75	375	4335	3920
164A-80	80	385	5180	4680

## Extension For No.164A



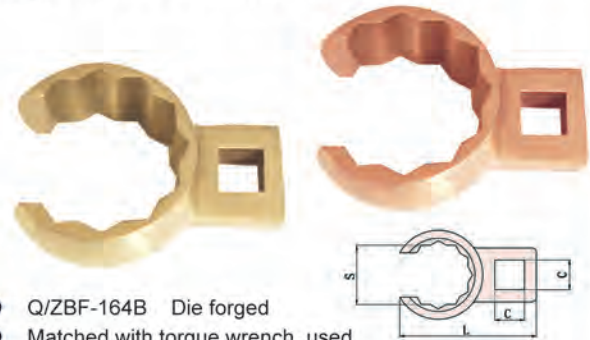
Number mm	Φ mm	L mm	Be-Cu g	Al-Cu g
24-30	19	460	940	850
32-41	22	610	1640	1480
46-55	25	760	2480	2240
60-80	30	860	3890	3515

## Extension For No.164A



Number mm	Φ mm	L mm	Copper g	Brass g
24-30	19	460	880	830
32-41	22	610	1280	1210
46-55	25	760	2125	2005
60-80	30	860	3265	3080

## No.164B Crow Foot Box End



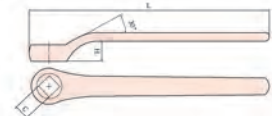
- Q/ZBF-164B Die forged
- Matched with torque wrench, used to perform protection when tighten or loosen special bolts and nuts.

Number	C inch	S inch	L mm	Be-Cu g	Al-Cu g
164B-1002	3/8	7/16	29	35	30
164B-1004		1/2	31	40	35
164B-1006		9/16	33	45	40
164B-1008		5/8	38	50	45
164B-1010		11/16	41	55	50
164B-1012		3/4	43	55	50
164B-1014	1/2	7/8	48	80	70
164B-1016		1	52	85	75
164B-1018		1-1/16	54	90	80
164B-1020		1-1/8	56	100	90
164B-1022		1-1/4	62	145	130
164B-1024		1-5/16	66	170	150
164B-1026		1-1/2	72	190	170
164B-1028		1-5/8	76	210	180
164B-1030		2	89	230	200

## No.165 Valve Square Driver



- Q/ZBF-165 Precision Casting
- Used to open and close square valves.



Number	C mm	L mm	H mm	Be-Cu g	Al-Cu g
165-6	6	110	9	65	55
165-8	8	120	10	75	61
165-9	9	140	11	90	75
165-10	10	140	12	105	85
165-11	11	160	13	130	102
165-12	12	190	14	180	145
165-13	13	200	15	185	151
165-14	14	250	16	300	261
165-16	16	250	18	335	285
165-17	17	300	19	420	366
165-19	19	350	20	740	662
165-22	22	400	22	1000	896



## No.165A Valve Square Driver



- Q/ZBF-165A Precision Casting
- Used to open and close square valves.

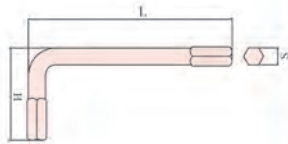


Number	Size	L mm	D mm	K mm	Be-Cu g	Al-Cu g
165A-15	DN15	140	12	8	90	80
165A-20	DN20	140	14	9	105	95
165A-25	DN25	160	16	10	130	110
165A-32	DN32	190	17	11	180	155
165A-40	DN40	200	18	12	200	175
165A-50	DN50	250	23	15	335	330
165A-65	DN65	300	24	16	420	440
165A-80	DN80	350	25	17	740	650
165A-100	DN100	350	28	18	740	650

## No.167 Wrench, Hex Key



- ISO 2936 Die forged
- To fasten or remove socket screws.

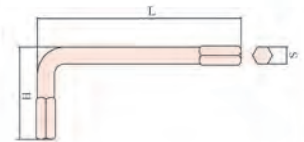


Number	S inch	L mm	H mm	Be-Cu g	Al-Cu g
167-1002	1/16	59	25	8	6
167-1004	5/64	59	25	8	6
167-1006	3/32	59	25	8	6
167-1008	7/64	59	25	8	6
167-1010	1/8	59	25	8	6
167-1012	9/64	64	29	8	7
167-1014	5/32	65	30	10	9
167-1016	3/16	79	31	15	14
167-1018	7/32	85	37	20	18
167-1020	1/4	85	37	30	27
167-1022	9/32	88	43	45	40
167-1024	5/16	92	44	48	44
167-1026	11/32	97	44	50	45
167-1028	3/8	110	45	85	80

## No.166 Wrench, Hex Key



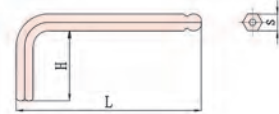
- ISO 2936 Die forged
- To fasten or remove socket screws.



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
166-1.5	1.5	59	25	8	6
166-2	2	59	25	8	6
166-2.5	2.5	59	25	8	6
166-3	3	59	25	8	6
166-4	4	65	30	10	8
166-5	5	79	32	16	12
166-6	6	85	37	25	20
166-7	7	88	43	34	30
166-8	8	92	44	50	45
166-9	9	97	44	61	55
166-10	10	110	45	82	70
166-11	11	119	48	100	90
166-12	12	130	52	145	130
166-13	13	140	54	180	160
166-14	14	150	58	211	191
166-15	15	156	60	260	230
166-16	16	162	63	300	270
166-17	17	168	65	370	335
166-18	18	173	69	450	402
166-19	19	177	72	490	445
166-21	21	184	74	652	595
166-22	22	186	77	675	615
166-24	24	192	82	825	755
166-25	25	200	84	925	840
166-26	26	206	90	1025	940
166-27	27	213	93	1220	1115
166-28	28	222	95	1350	1235
166-30	30	240	105	1615	1475
166-32	32	266	116	2065	1885
166-36	36	294	128	2905	2650
166-41	41	320	140	4120	3760

Number	S inch	L mm	H mm	Be-Cu g	Al-Cu g
167-1030	7/16	119	48	110	100
167-1032	1/2	140	55	170	155
167-1034	9/16	150	58	195	180
167-1036	5/8	162	63	270	245
167-1038	11/16	168	65	355	325
167-1040	3/4	178	73	450	415
167-1042	13/16	184	77	565	520
167-1044	7/8	187	79	650	595
167-1046	15/16	192	82	825	755
167-1048	1	200	85	925	840
167-1050	1-1/16	213	93	1220	1115

**No.167A Wrench, Hex Key With Ball**



- ISO 2936
- It is quicker to use than the conventional type, as the ball point provides a lead-in to screw heads.

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
167A-2	2	50	16	3	2
167A-3	3	63	20	5	4
167A-4	4	70	25	12	11
167A-5	5	80	28	22	20
167A-6	6	90	32	30	27
167A-7	7	95	34	50	45
167A-8	8	100	36	56	51
167A-9	9	106	38	85	76
167A-10	10	112	40	100	90
167A-11	11	118	42	140	125
167A-12	12	125	45	175	160

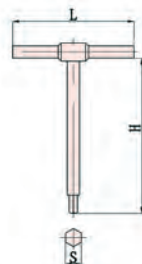
**No.167B Wrench, Hex Key**



- ISO 2936
- Used to fasten or remove socket screws

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
167B-2	2	50	16	3	2
167B-3	3	63	20	5	4
167B-4	4	70	25	12	11
167B-5	5	80	28	22	20
167B-6	6	90	32	30	27
167B-7	7	95	34	50	45
167B-8	8	100	36	56	50
167B-9	9	106	38	85	77
167B-10	10	112	40	100	90
167B-11	11	118	42	140	126
167B-12	12	125	45	162	145

**No.167C Wrench, T Type Hex Key**

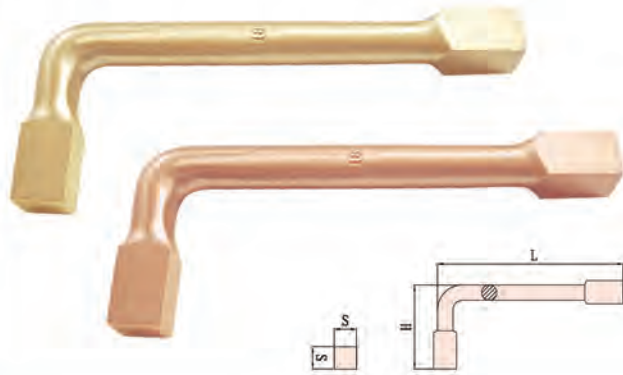


- Q/ZBF-167C
- Used to fasten or remove socket screws.

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
167C-2	2	90	100	55	50
167C-3	3	90	100	55	50
167C-4	4	90	100	75	70
167C-5	5	90	100	85	75
167C-6	6	90	100	100	90
167C-8	8	90	100	100	90
167C-10	10	90	100	150	135



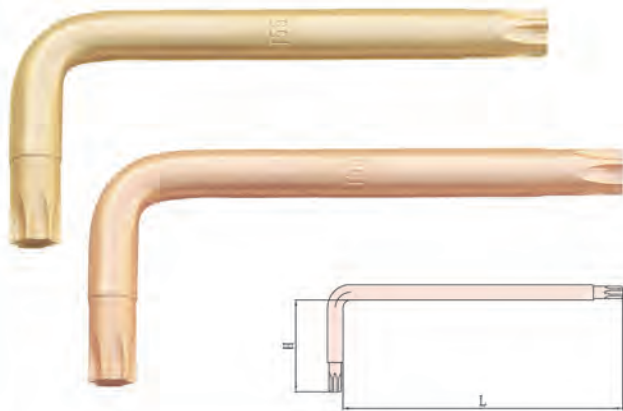
**No.167D Wrench, Square Key**



- Q/ZBF-167D Die forged
- Used to fasten or remove square socket screws .

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
167D-8	8	92	44	55	50
167D-9	9	97	44	65	60
167D-10	10	110	45	90	80
167D-11	11	119	48	110	100
167D-12	12	130	52	155	140
167D-13	13	140	54	185	170
167D-14	14	150	58	220	200
167D-15	15	156	60	280	250
167D-16	16	162	63	320	290
167D-17	17	168	65	395	355
167D-18	18	173	69	465	420
167D-19	19	177	72	520	470

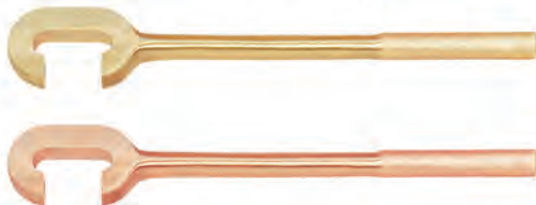
**No.167E Trox Key Wrench**



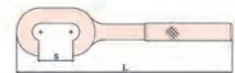
- Q/ZBF-167E Die forged
- The cross section resembles a star. Used to fasten or remove star hexagon socket screws.

Number	Size	L mm	H mm	Be-Cu g	Al-Cu g
167E-6	T6	42	16	8	5
167E-7	T7	48	16	8	5
167E-8	T8	48	16	8	5
167E-9	T9	48	16	8	5
167E-10	T10	51	17	8	5
167E-15	T15	54	18	10	8
167E-20	T20	57	20	13	10
167E-25	T25	60	20	17	13
167E-27	T27	64	21	20	15
167E-30	T30	70	24	30	25
167E-40	T40	76	26	40	35
167E-45	T45	83	29	50	45
167E-50	T50	95	32	75	65
167E-55	T55	108	35	145	130
167E-60	T60	120	38	210	190

**No.168 Valve Wrench, C Type**



- Q/ZBF-168 Die forged
- Facilitate fitting and removal of radiator valves.

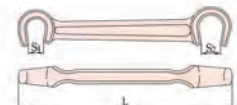


Number	L mm	S mm	Be-Cu g	Al-Cu g
168-1002	450	40	1205	1102

**No.169 Valve Wrench, C Type**



- Q/ZBF-169 Die forged
- Facilitate fitting and removal of radiator valves.

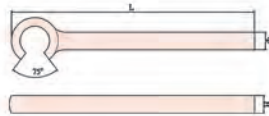


Number	L mm	S <sub>1</sub> mm	S <sub>2</sub> mm	Be-Cu g	Al-Cu g
169-1002	200	14.5	18.5	370	335
169-1004	250	17.5	25.5	635	575
169-1006	450	25.5	34	2385	2160

**No.170 Valve Wrench, C Type**



- Q/ZBF-170 Die forged
- Facilitate fitting and removal of radiator valves.

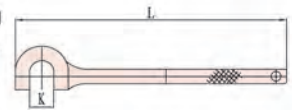


Number	L mm	Φ mm	H mm	Be-Cu g	Al-Cu g
170-1002	600	32	32	4500	4115

**No.170B Valve Spanner (U Type)**



- Q/ZBF-170B Precision Casting
- Tighten or loosen bolts valves.

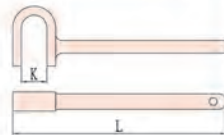


Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
170B-1002	226	20	370	335

**No.170A Valve Spanner (U Type)**



- Q/ZBF-170A Precision Casting
- Tighten or loosen bolts valves.

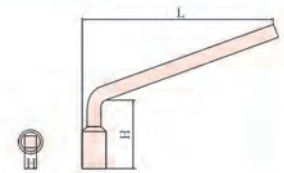


Number	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
170A-1002	234	20	260	235
170A-1004	280	30	820	740
170A-1006	335	35	980	885
170A-1008	400	35	1640	1480

**No.171 Oxygen Bottle Wrench**



- Q/ZBF-171 Die forged
- Used to open or close valves of the oxygen bottle.

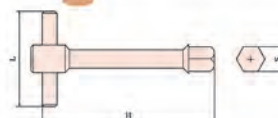


Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
171-1002	3/8	154	58	185	170

**No.172 Wrench, T-type Sliding Hex**



- Q/ZBF-172 Die forged
- Fasten or remove socket head cap screws in deep concavity space. or matched with socket.



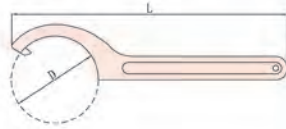
Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
172-10	10	150	110	270	245
172-12	12	170	130	290	265
172-14	14	170	140	400	365
172-17	17	190	150	465	423
172-19	19	220	160	615	563
172-22	22	240	170	660	605
172-24	24	260	180	935	855
172-27	27	260	190	1000	915
172-30	30	280	200	1306	1195
172-32	32	280	210	1505	1375
172-36	36	300	216	1802	1645
172-41	41	300	226	2075	1895



**No.173 Wrench, Hook**

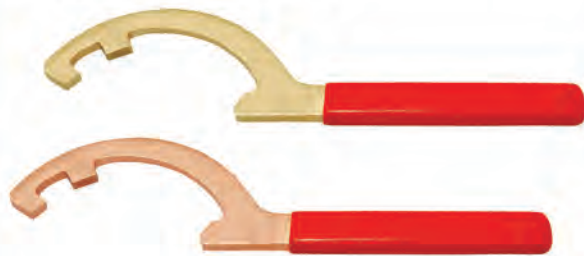


- DIN 1810 Die forged
- Designed to tighten or loosen round head screws, threaded collars and retainer rings, shafts etc.



Number	D mm	L mm	Be-Cu g	Al-Cu g
173-1002	30-32	140	63	50
173-1004	34-36	170	95	85
173-1006	40-42	176	105	95
173-1008	45-50	209	160	145
173-1010	52-55	212	170	150
173-1012	58-62	244	225	200
173-1014	68-75	250	265	240
173-1016	80-90	284	375	335
173-1018	95-100	288	415	370
173-1020	110-115	337	770	690
173-1022	120-130	343	770	690
173-1024	135-145	388	1110	1000

**No.173A Wrench, Hook**



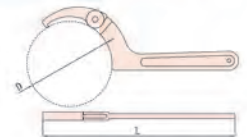
- Q/ZBF-173A Die forged
- Designed to tighten or loosen round head screws, threaded collars and retainer rings, shafts etc.

Number	D mm	L mm	Be-Cu g	Al-Cu g
173A-1002	118	280	350	310

**No.173B Wrench, Adjustable Hook**



- Q/ZBF-173B Die forged
- The adjustable hook applied to many sizes avoids changing frequently, easy to use.



Number	D mm	L mm	Be-Cu g	Al-Cu g
173B-1002	19-50	162	120	110
173B-1004	32-75	205	260	235
173B-1006	50-120	288	515	460
173B-1006	115-170	310	670	600

**No.173C Hook Wrench With Pin**



- DIN 1810 Die forged
- For nuts with radial holes.

Number	D mm	L mm	Be-Cu g	Al-Cu g
173C-1002	30-32	136	63	50
173C-1004	34-36	171	95	85
173C-1006	40-42	171	105	95
173C-1008	45-50	207	160	145
173C-1010	52-55	207	170	150
173C-1012	58-62	243	225	200
173C-1014	68-75	243	265	240
173C-1016	80-90	281	375	335
173C-1018	95-100	281	415	370
173C-1020	110-115	333	770	690

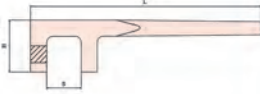




**No.174 Valve Handle**



- QB/T2613.9 Precision Casting
- Tighten or loosen bolts valves, F type, widely used.



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
174-30	30	200	44	405	340
174-35	35	250	49	465	410
174-40	40	300	50	595	540
174-45	45	350	61	835	762
174-48	48	375	62	865	790
174-50	50	400	67	892	815
174-55	55	450	73	1270	1110
174-60	60	500	79	1570	1435
174-65	65	550	80	1920	1755
174-70	70	600	80	1945	1775
174-75	75	650	85	2245	2055
174-80	80	700	91	2405	2190
174-85	85	750	97	3050	2770
174-90	90	800	103	3360	3060
174-93	93	850	107	3553	3250
174-96	96	900	110	3870	3515
174-100	100	1000	114	4170	3795
174-103	103	1200	120	6330	5765

**No.174B Valve Handle**

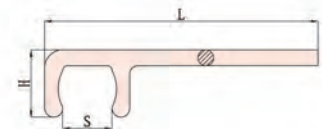


- QB/T2613.9 Precision Casting
- Circular head and thick jaws increased the contact area with the valves. Easy to use .

**No.174A Valve Handle**



- QB/T2613.9 Precision Casting
- Circular head and thick jaws increased the contact area with the valves. Easy to use .

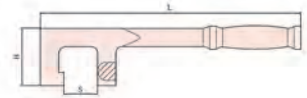


Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
174A-30	30	200	46	265	240
174A-35	35	250	52	375	340
174A-40	40	300	54	450	400
174A-45	45	350	60	585	530
174A-50	50	400	68	740	670
174A-55	55	450	74	830	750
174A-60	60	500	80	1200	1100
174A-65	65	550	83	1280	1160
174A-70	70	600	88	1380	1250
174A-75	75	650	93.5	1650	1500
174A-80	80	700	99.5	1870	1700
174A-85	85	750	100	2090	1900
174A-90	90	800	107	2310	2100
174A-95	95	900	112	2980	2700
174A-100	100	1000	117	3330	3010

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
174B-30	30	200	46	265	240
174B-35	35	250	52	375	340
174B-40	40	300	54	450	400
174B-45	45	350	60	585	530
174B-50	50	400	68	740	670
174B-55	55	450	74	830	750
174B-60	60	500	80	1200	1100
174B-65	65	550	83	1280	1160
174B-70	70	600	88	1380	1250
174B-75	75	650	93.5	1650	1500
174B-80	80	700	99.5	1870	1700
174B-85	85	750	100	2090	1900
174B-90	90	800	107	2310	2100
174B-95	95	900	112	2980	2700
174B-100	100	1000	117	3330	3010



**No.175 Valve Handle**



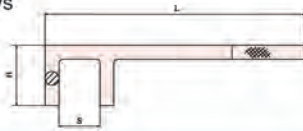
- QB/T2613.9 Precision Casting
- Circular head and thick jaws increased the contact area with the valves. Easy to use .

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
175-22	22	200	50	390	345
175-28	28	250	53	550	475
175-34	34	300	56	722	615
175-39	39	350	60	905	780
175-44	44	400	64	1050	910
175-48	48	450	69	1260	1130
175-53	53	500	74	1405	1250
175-58	58	550	79	1890	1720
175-63	63	600	84	2220	2005

**No.176 Valve Handle**

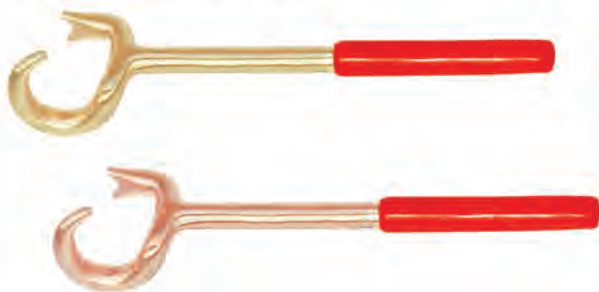


- QB/T2613.9 Precision Casting
- Circular head and thick jaws increased the contact area with the valves. Easy to use .



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
176-30	30	200	44	280	250
176-32	32	300	50	540	490
176-35	35	250	47	364	325
176-40	40	300	50	470	422
176-45	45	350	58	610	540
176-48	48	375	62	660	595
176-50	50	400	67	705	615
176-55	55	450	73	960	870
176-60	60	500	79	1205	1105
176-65	65	550	82	1370	1250
176-70	70	600	85	1540	1360
176-75	75	650	88	1705	1540
176-80	80	700	91	1910	1650
176-85	85	750	97	2250	2015
176-90	90	800	103	2380	2130

**No.176A Valve Spanner**

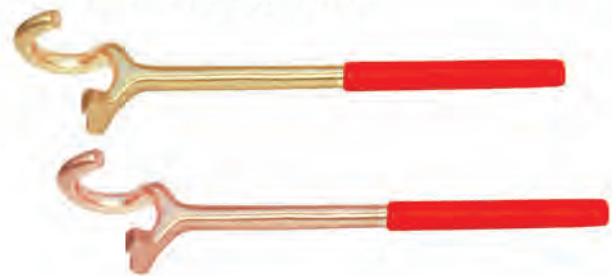


- Q/ZBF-176A Precision Casting
- Used to provide leverage on hand-operated valve wheels.

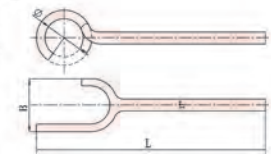


Number	K mm	L mm	Be-Cu g	Al-Cu g
176A-1002	40	355	915	825

**No.176B Valve Spanner**



- Q/ZBF-176B Precision Casting
- Used to provide leverage on hand-operated valve wheels.

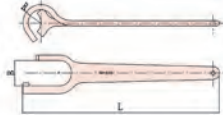


Number	B mm	Φ mm	L mm	Be-Cu g	Al-Cu g
176B-1002	60	36	370	730	650
176B-1004	80	48	430	1520	1350
176B-1006	102	62	550	2250	2000

## No.176C Valve Spanner

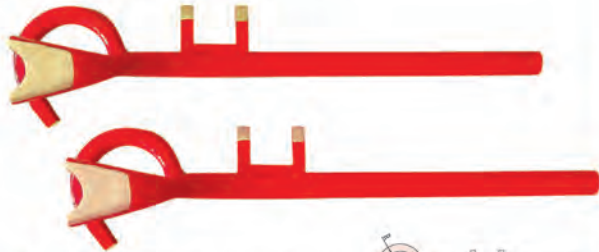


- Q/ZBF-176C Precision Casting
- Used to provide leverage on hand-operated valve wheels.

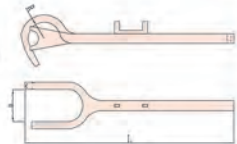


Number	B mm	R mm	L mm	Be-Cu g	Al-Cu g
176C-1002	30	15	250	415	375
176C-1004	40	20	300	540	485
176C-1006	50	25	400	1050	950
176C-1008	60	30	550	1800	1630
176C-1010	130	65	750	4900	4430

## No.176D Valve Spanner



- Q/ZBF-176D Precision Casting
- Used to provide leverage on hand-operated valve wheels.

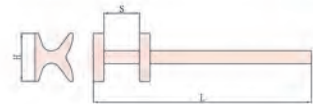


Number	B mm	R mm	L mm	Be-Cu g	Al-Cu g
176D-1002	50	22.5	290	775	700
176D-1004	60	30	430	1770	1580
176D-1006	80	40	520	2770	2500
176D-1008	90	45	660	4080	3660

## No.176E Valve Spanner



- Q/ZBF-176E Precision Casting
- Used to provide leverage on hand-operated valve wheels.

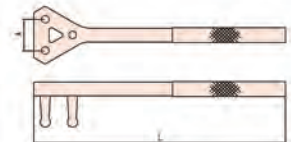


Number	S mm	H mm	L mm	Be-Cu g	Al-Cu g
176E-1002	40	50	300	590	540
176E-1004	55	74	450	1165	1050
176E-1006	70	80	600	1950	1700
176E-1008	90	100	800	2800	2600

## No.176F Valve Spanner



- Q/ZBF-176F Precision Casting
- Used to provide leverage on hand-operated valve wheels.

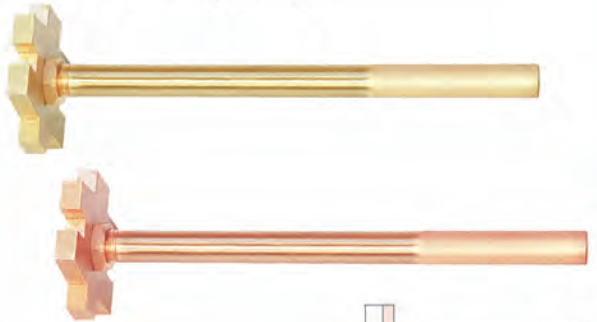


Number	L mm	A mm	Be-Cu g	Al-Cu g
176F-200	200	25	220	200
176F-250	250	35	375	340
176F-300	300	42	440	400
176F-350	350	62	660	600
176F-400	400	90	1030	940
176F-450	450	110	1430	1300
176F-500	500	165	2090	1900
176F-550	550	225	2420	2200





**No.177 Wrench, Bung**

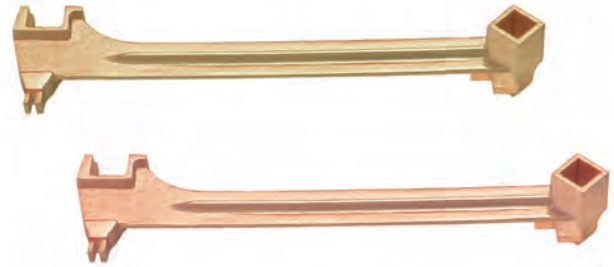


- QB/T2613.4 Precision Casting
- Commonly used to open bungs on large oil drums.

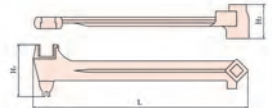


Number	L mm	H mm	Be-Cu g	Al-Cu g
177-1002	300	70	630	580

**No.179 Wrench, Bung**



- Q/ZBF-179 Precision Casting
- Commonly used to open bungs on large oil drums, American type. multiple uses.



Number	L mm	H <sup>1</sup> mm	H <sup>2</sup> mm	Be-Cu g	Al-Cu g
179-1002	385	93	61	1250	1150

**No.178 Wrench, Bung**



- QB/T2613.4 Precision Casting
- Commonly used to open bungs on large oil drums.

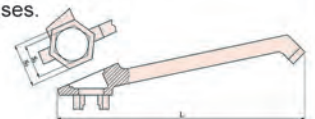


Number	L mm	H <sup>1</sup> mm	H <sup>2</sup> mm	Be-Cu g	Al-Cu g
178-1002	350	70	95	1165	1070

**No.179A Wrench, Bung**



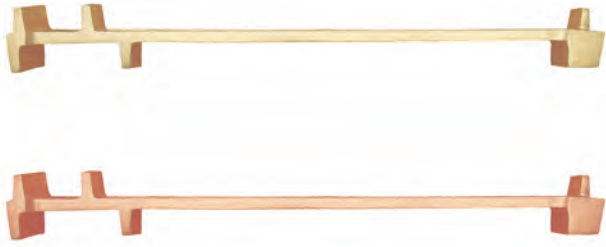
- Q/ZBF-179A Precision Casting
- commonly used to open bungs on large oil drums, European. multiple uses.



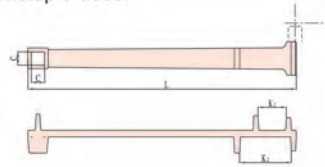
Number	L mm	S <sub>1</sub> mm	S <sub>2</sub> mm	Be-Cu g	Al-Cu g
179A-1002	300	38	52	830	750



**No.179B Wrench, Bung**



- Q/ZBF-179B Precision Casting
- Commonly used to open bungs on large oil drums, Japanese type. multiple uses.

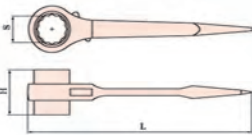


Number	L mm	C mm	K <sub>1</sub> mm	K <sub>2</sub> mm	Be-Cu g	Al-Cu g
179B-1002	520	19	40	73	1120	1100

**No.180 Ratchet Wrench**



- Q/ZBF-180 Die forged
- Reversing the direction of operation in situ without detaching the sockets. It has built in mechanisms for both right and left operation. The ratchets have replaceable gear-pawl assembly.



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
180-22	22	270	50	580	520
180-24	24	280	53	620	560
180-27	27	290	56	730	660
180-30	30	300	58	800	720
180-32	32	310	60	900	810
180-36	36	320	65	1000	900
180-38	38	320	65	1150	1030
180-41	41	330	70	1500	1350

**No.179C Drum Opener**



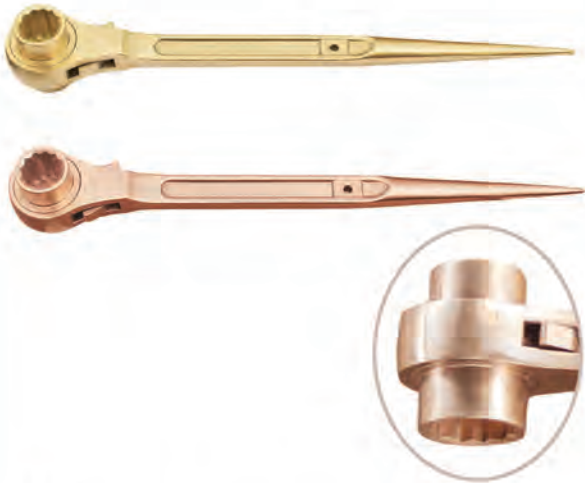
- Q/ZBF-179C Die forged
- Used for opening oil drum.

Number	Size	L mm	Be-Cu g	Al-Cu g
179C-1002	NS-200	520	3100	2800





**No.180A Ratchet Wrench**



- Q/ZBF180A Die forged
- Reversing the direction of operation in situ without detaching the sockets. It has built in mechanisms for both right and left operation. The ratchets have replaceable gear-pawl assembly.

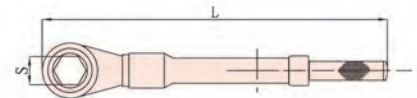
Number	S <sub>1</sub> mm	S <sub>2</sub> mm	L mm	Be-Cu g	Al-Cu g
180A-1417	14	17	280	410	370
180A-1719	17	19	310	450	410
180A-1922	19	22	345	530	480
180A-2224	22	24	365	680	620
180A-2427	24	27	380	860	780
180A-2730	27	30	400	990	900
180A-3032	30	32	400	1025	930
180A-3236	32	36	450	1450	1300
180A-3641	36	41	495	1860	1690



**No.180B Ratchet Wrench**

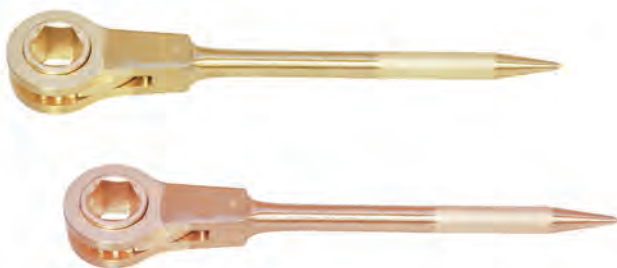


- Q/ZBF-180B Die forged
- Hex wrench with retractable handle. Save effort.
- This design can achieve expected result.

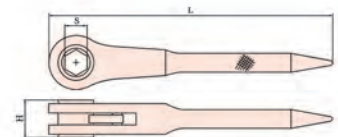


Number	S mm	L mm	Be-Cu g	Al-Cu g
180B-22	22	400-650	1700	1550
180B-24	24	460-700	2000	1820
180B-27	27	500-750	2500	2280
180B-30	30	535-800	3000	2730
180B-32	32	535-800	3150	2870
180B-36	36	580-880	3350	3000
180B-41	41	600-900	3600	3280

**No.181 Ratchet Wrench**

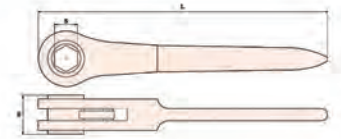


- Q/ZBF-181 Die forged
- Reversing the direction of operation in situ without detaching the sockets. It has built in mechanisms for both right and left operation. The ratchets have replaceable gear-pawl assembly.



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
181-17	17	290	35	720	650
181-19	19	300	35	850	750
181-22	22	320	38	995	890
181-24	24	329	39	1230	1100
181-27	27	380	39	1500	1350
181-30	30	433	42	1900	1600
181-32	32	435	42	1935	1700
181-36	36	487	43	2580	2320

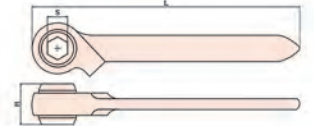
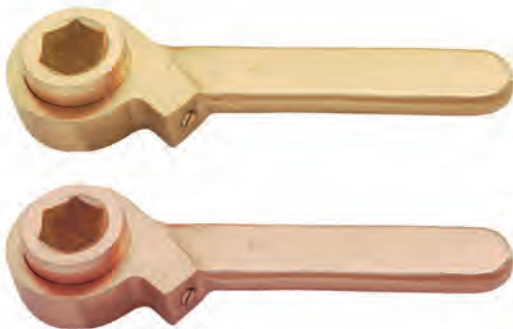
**No.182 Ratchet Wrench**



- Q/ZBF-182 Die forged
- Reversing the direction of operation in situ without detaching the sockets. It has built in mechanisms for both right and left operation. The ratchets have replaceable gear-pawl assembly.

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
182-17	17	230	35	725	621
182-19	19	240	35	745	652
182-21	21	260	38	963	835
182-22	22	260	38	963	835
182-24	24	270	39	1175	1022
182-26	26	285	39	1253	1102
182-27	27	285	39	1253	1102
182-30	30	300	42	1532	1325
182-32	32	315	42	1622	1427
182-35	35	330	43	1829	1673
182-36	36	330	43	1829	1673
182-41	41	330	45	2129	1948

**No.183 Ratchet Wrench**



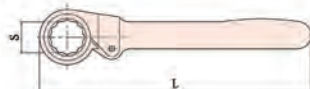
- Q/ZBF-183 Die forged
- Reversing the direction of operation in situ without detaching the sockets. Heavy duty

Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
183-17	17	250	28	710	650
183-19	19	250	28	896	820
183-21	21	250	30	1030	940
183-22	22	250	30	1105	1010
183-24	24	250	32	1345	1230
183-26	26	250	34	1365	1250
183-27	27	250	34	1580	1450
183-30	30	250	40	1795	1640
183-32	32	250	40	1990	1820
183-35	35	250	45	2010	1840
183-36	36	250	45	2225	2035

**No.183A Ratchet Wrench**



- Q/ZBF-183A Die forged
- Reversing the direction of operation in situ without detaching the sockets. European type



Number	S mm	L mm	Be-Cu g	Al-Cu g
183A-9	9	150	100	90
183A-11	11	150	100	90
183A-13	13	150	100	90
183A-14	14	205	245	220
183A-17	17	205	245	220
183A-19	19	255	410	370
183A-22	22	255	410	370
183A-24	24	305	535	480
183A-27	27	305	535	480
183A-30	30	400	800	720
183A-32	32	400	800	720
183A-36	36	500	1320	1200
183A-41	41	500	1320	1200
183A-46	46	635	2750	2500
183A-50	50	635	2750	2500
183A-55	55	760	3355	3050
183A-60	60	760	3355	3050





The Vice President of Shandong Shengli oilfield Mr.Dong Said, the non sparking tools of Hebei Botou Safety Tools are Professional ,High Quality ,Special and High-Tech craftsmanship products.



## Be—Cu

FINEST TECNOLOGY

WITH EXPERIENT PREPARATION

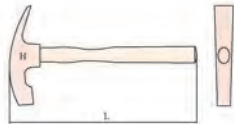




**No.184 Hammer, Bricklayers'**



- Q/ZBF-184 Precision Casting
- Used to striking the brick and tile.

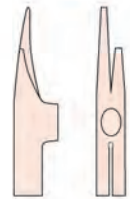


Number	H g	L mm	 g
184-1002	600	305	750
184-1004	800	340	1000

**No.185A Carpenter's Hammer**

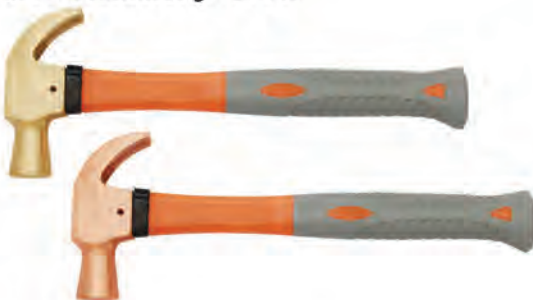


- Q/ZBF-185A Precision Casting
- Frequently used to strike or remove nails.



Number	H g	L mm	Be-Cu g	Al-Cu g
185A-500	500	300	700	700
185A-600	600	330	870	870

**No.185 Hammer, Claw**



- QB/T 1290.8 Precision Casting
- The claw hammer is frequently used to strike or remove nails.

Number	H g	L mm	 g
185-1002	230	280	405
185-1004	450	300	652
185-1006	680	330	953
185-1008	910	375	1205

**No.186 Hammer, Cross Pein Engineers'**



- DIN 1041 Precision Casting
- Applied in metal shaping and flanging.

Number	H g	L mm	 g
186-1002	500	310	655
186-1004	1000	340	1175
186-1006	1500	400	1850
186-1008	2000	400	2455
186-1010	3000	700	3700
186-1012	5000	900	6000

**No.186A Hammer, Cross Pein Engineers'**



- DIN 1041 Precision Casting
- Applied in metal shaping and flanging.

Number	H g	L mm	 g
186A-1002	500	310	600
186A-1004	1000	320	1150
186A-1006	1500	360	1650
186A-1008	2000	380	2200
186A-1010	3000	700	3400
186A-1012	5000	800	5500



## No.187 Hammer, Ball Pein



- QB/T 2613.7 Precision Casting
- Most common striking tools.Used in metal working.

Number	H g	L mm	⚖ g
187-1002	230	280	403
187-1004	340	280	502
187-1006	450	310	680
187-1008	680	340	880
187-1010	910	350	1100
187-1012	1130	400	1470

## No.189 Hammer, Pein

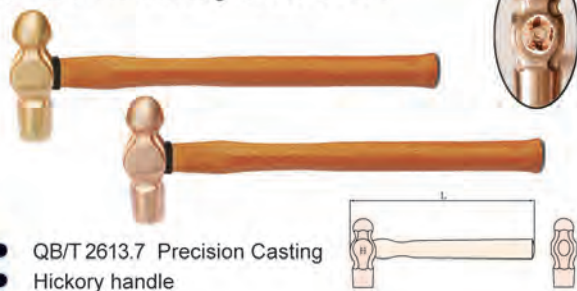


- Q/ZBF-189 Precision Casting
- Applied in metal shaping and flanging.

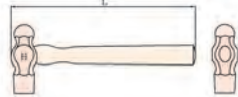


Number	H g	L mm	⚖ g
189-1002	250	280	461
189-1004	300	280	570

## No.187A Hammer, Ball Pein



- QB/T 2613.7 Precision Casting
- Hickory handle



Number	H g	L mm	⚖ g
187A-1002	230	300	320
187A-1004	340	300	430
187A-1006	450	325	560
187A-1008	680	365	910
187A-1010	910	365	1020
187A-1012	1130	400	1390

## No.189A Hammer, Cutoff(Japan Type)



- Q/ZBF-189A Die forged
- Applied in metal shaping and flanging.
- Hickory handle.



Number	H g	L mm	⚖ g
189A-1002	230	280	420
189A-1004	380	330	500

## No.188 Hammer, Cutoff



- Q/ZBF-188 Precision Casting
- Applied in metal shaping and flanging.

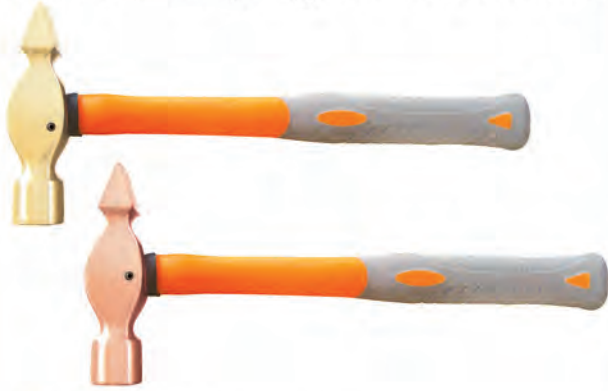
Number	H g	L mm	⚖ g
188-1002	300	280	420
188-1004	450	310	650
188-1006	600	340	900

## No.188A Hammer, Cutoff



Number	H g	L mm	⚖ g
188A-1002	300	300	390
188A-1004	450	325	560
188A-1006	600	365	830

## No.189B Hammer, Engineer' s Cross Pein



- QB/T 1290.4 Precision Casting
- Applied in metal shaping and flanging.

Number	H g	L mm	⚖ g
189B-1002	500	310	650
189B-1004	900	350	1100

## No.190 Hammer, Scaling



- QB/T 1290.6 Precision Casting
- Mainly used for cleaning rust, welding slag.

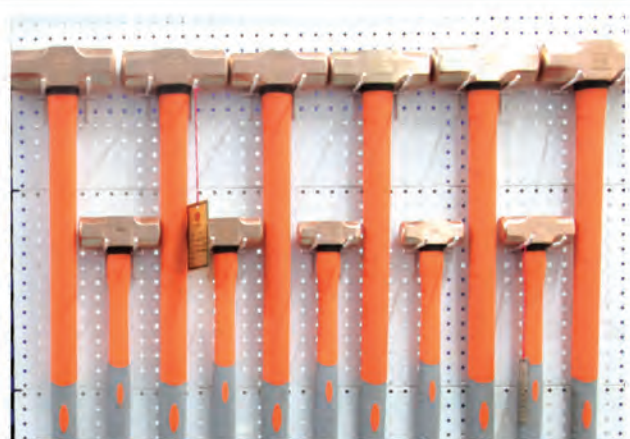
Number	H g	L mm	⚖ g
190-1002	150	280	205
190-1004	300	280	370

## No.191 Hammer, Sledge



- QB/T 2613.6 Precision Casting
- The sledge hammer can apply more force than other hammers, due to its large size.

Number	H g	L mm	⚖ g
191-1002	450	310	610
191-1004	1000	350	1300
191-1006	1400	400	1700
191-1008	1500	400	1800
191-1010	1800	400	2100
191-1012	2000	400	2300
191-1014	2200	400	2500
191-1016	2500	700	3210
191-1018	2700	700	3410
191-1020	3000	700	3710
191-1022	3600	700	4310
191-1024	4000	900	4910
191-1026	4500	900	5410
191-1028	5000	900	5910
191-1030	5400	900	6310
191-1032	6400	900	7310
191-1034	7200	900	8110
191-1036	8000	900	8910
191-1038	8200	900	9110
191-1040	9100	900	10010
191-1042	9900	900	10810





**No.191A Hammer, Sledge**



- QB/T 2613.6 Precision Casting
- The sledge hammer can apply more force than other hammers, due to its large size.

Number	Size g	L mm	⚖ g
191A-1002	450	310	450
191A-1004	1000	350	1000
191A-1006	1400	400	1400
191A-1008	1500	400	1500
191A-1010	1800	400	1800
191A-1012	2000	400	2000
191A-1014	2200	400	2200
191A-1016	2500	700	2500
191A-1018	2700	700	2700
191A-1020	3000	700	3000
191A-1022	3600	700	3600
191A-1024	4000	900	4000
191A-1026	4500	900	4500
191A-1028	5000	900	5000
191A-1030	5400	900	5400
191A-1032	6400	900	6400
191A-1034	7200	900	7200
191A-1036	8000	900	8000
191A-1038	8200	900	8200
191A-1040	9100	900	9100
191A-1042	9900	900	9900

**No.191C Hammer, Sledge(German Type)**



- Q/ZBF-191C Precision Casting
- The sledge hammer can apply more force than other hammers, due to its large size.
- German type.

Number	H g	L mm	⚖ g
191C-1002	500	310	650
191C-1004	1000	350	1300
191C-1006	1500	400	1800
191C-1008	2000	400	2300
191C-1010	3000	700	3700
191C-1012	4000	900	4900
191C-1014	5000	900	5900

**No.191B Hammer, Sledge**



- QB/T 2613.6 Precision Casting
- The sledge hammer can apply more force than other hammers, due to its large size.

Number	Size g	L mm	⚖ g
191B-1002	450	310	450
191B-1004	1000	320	1000
191B-1006	1400	360	1400
191B-1008	1500	360	1500
191B-1010	1800	380	1800
191B-1012	2000	380	2000
191B-1014	2200	400	2200
191B-1016	2500	400	2500
191B-1018	2700	400	2700
191B-1020	3000	700	3000
191B-1022	3600	700	3600
191B-1024	4000	800	4000
191B-1026	4500	800	4500
191B-1028	5000	800	5000
191B-1030	5400	800	5400
191B-1032	6400	800	6400
191B-1034	7200	900	7200
191B-1036	8000	900	8000
191B-1038	8200	900	8200
191B-1040	9100	900	9100
191B-1042	9900	900	9900



**No.191D Club Hammer**



- Q/ZBF-191D Precision Casting
- It is useful for light demolition work, driving masonry nails, and for use with a steel chisel when cutting stone or metal. it is a heavy one-handed hammer with a double -faced head.

Number	Size lb	 g
191D-1002	2	910
191D-1004	4	1800

**No.191F Nylon Hammer**



- Q/ZBF-191F Precision Casting
- The nylon head are used to protect the striking surface from damage.

Number	Size g	L mm	 g
191F-1002	420	280	420
191F-1004	650	340	650

**No.191E Nylon Hammer**



- Q/ZBF-191E Precision Casting
- The nylon head are used to protect the striking surface from damage.

Number	Size g	L mm	 g
191E-1002	800	340	800
191E-1004	1000	400	1000

**No.191G Sledge Hammer**



- Hickory handle

Number	H g	L mm	 g
191G-1002	450	310	640
191G-1004	1000	320	1200
191G-1006	1400	360	1620
191G-1008	1500	360	1720
191G-1010	1800	380	2020
191G-1012	2000	380	2240
191G-1014	2200	400	2440
191G-1016	2500	400	2740
191G-1018	2700	400	2940
191G-1020	3000	700	3500
191G-1022	3600	700	4100
191G-1024	4000	800	4600
191G-1026	4500	800	5100
191G-1028	5000	800	5600
191G-1030	5400	800	6000
191G-1032	6400	800	7000
191G-1034	7200	900	7850
191G-1036	8000	900	8700
191G-1038	8200	900	8900
191G-1040	9100	900	9800
191G-1042	9900	900	10600





**No.191H Sledge Hammer**



- QB/T2613.6 Precision Casting
- Hickory handle

Number	Size g	L mm	⚖ g
191H -1002	450	310	450
191H -1004	1000	320	1000
191H -1006	1400	360	1400
191H -1008	1500	360	1500
191H -1010	1800	380	1800
191H -1012	2000	380	2000
191H -1014	2200	400	2200
191H -1016	2500	400	2500
191H -1018	2700	400	2700
191H -1020	3000	700	3000
191H -1022	3600	700	3600
191H -1024	4000	800	4000
191H -1026	4500	800	4500
191H -1028	5000	800	5000
191H -1030	5400	800	5400
191H -1032	6400	800	6400
191H -1034	7200	900	7200
191H -1036	8000	900	8000
191H -1038	8200	900	8200
191H -1040	9100	900	9100
191H -1042	9900	900	9900



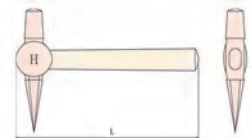
**No.191I Hammer, Sledge(German Type)**



- QB/T2613.6 Precision Casting
- Hickory handle

Number	H g	L mm	⚖ g
191I-1004	1000	320	1200
191I-1006	1500	360	1720
191I-1008	2000	380	2240
191I-1010	3000	700	3630
191I-1012	4000	800	4790
191I-1014	5000	800	5790

**No.192 Hammer, Testing**



- QB/T 2613.3 Precision Casting
- Mainly used to hitting railroad or equipment.

Number	H g	L mm	⚖ g
192-1002	150	280	206
192-1004	250	280	345

**No.192A Sledge Hammer**



- Q/ZBF-192A Precision Casting
- New fixing system increased the safety of the users.

Number	H g	L mm	⚖ g
192A-1002	1000	370	1300
192A-1004	1400	370	1700
192A-1006	1500	370	1800
192A-1008	1800	370	2100
192A-1010	2000	370	2300
192A-1012	2200	370	2500
192A-1014	2500	700	3460
192A-1016	2700	700	3660
192A-1018	3000	700	3960
192A-1020	3600	700	4560
192A-1022	4000	900	4960
192A-1024	4500	900	5460
192A-1026	5000	900	5960
192A-1028	5400	900	6360
192A-1030	6400	900	7360
192A-1032	7200	900	8160
192A-1034	8000	900	8960
192A-1036	8200	900	9160
192A-1038	9100	900	10060
192A-1040	9900	900	10860

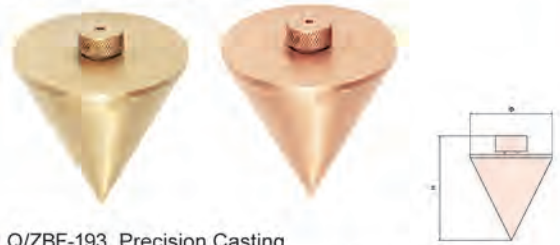
**No.192B Hammer, Sledge(German Type)**



- Q/ZBF-192B Precision Casting
- New design fixing-system, increased the safety of users.

Number	H g	L mm	⚖ g
192B-1004	1000	370	1300
192B-1006	1500	370	1800
192B-1008	2000	370	2300
192B-1010	3000	700	3950
192B-1012	4000	900	4950
192B-1014	5000	900	5950

**No.193 Hammer, Plumb**



- Q/ZBF-193 Precision Casting
- Plumb hammer bob were used to provide vertical datum lines for the building measurements

Number	H mm	Φ mm	Be-Cu g	Al-Cu g
193-1002	59	50	275	247

**No.194 Pick Railroad**



- QB/T 2290 Precision Casting
- For breaking up hard, rocky soil.

Number	Size	H mm	L mm	Be-Cu g	Al-Cu g
194-1002	1#	360	910	2100	2000
194-1004	2#	385	910	2950	2800
194-1006	3#	410	910	3385	3200
194-1008	4#	470	910	3715	3500

**No.194A Pick Railroad**



- QB/T 2290 Precision Casting
- For breaking up hard, rocky soil.

Number	Size	L mm	Be-Cu g	Al-Cu g
194A-1002	1#	910	2100	2000
194A-1004	2#	910	2950	2800
194A-1006	3#	910	3385	3200
194A-1008	4#	910	4330	4000



## No.195 Axe Fireman



- QB/T 2565.1 Precision Casting
- For cutting application. mainly used by firefighters.

Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
195-1002	340	190	98	1425	1300

## No.196 Axe



- GB 8389.6 Precision Casting
- For cutting application

Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
196-1002	340	145	82	980	890

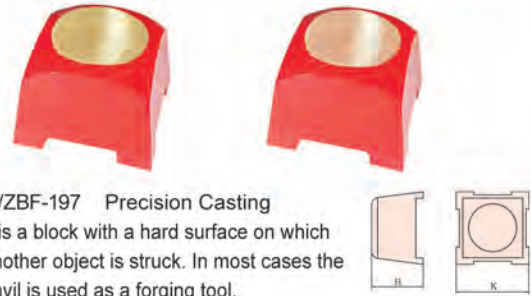
## No.196A Axe, Pick Head



- Q/ZBF-196A Precision Casting
- For cutting application

Number	Size g	L mm	B mm	Be-Cu g	Al-Cu g
196A-1002	1800	920	120	2650	2650

## No.197 Anvil Block



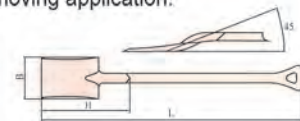
- Q/ZBF-197 Precision Casting
- It is a block with a hard surface on which another object is struck. In most cases the anvil is used as a forging tool.

Number	Size g	H mm	K mm
197-1002	3000	63	92
197-1004	5000	75	111
197-1006	16000	114	160

## No.198 Shovel, Square



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.

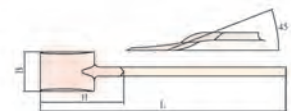


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
198-1002	940	190	340	1410	1290
198-1004	990	250	420	1804	1650

## No.198A Shovel, Square



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.

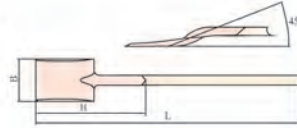


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
198A-1002	1400	190	340	1800	1680
198A-1004	1450	250	420	2200	2050

**No.198B Shovel, Square (Euro Type)**



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.

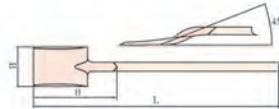


Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
198B-1002	1900	505	250	2700	2550

**No.198C Shovel, Square With Long Handle**



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.

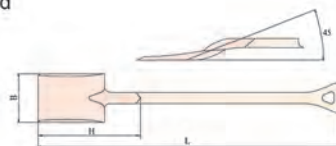


Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
198C-1002	1750	340	190	1750	1620

**No.199 Dust Pan**



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.

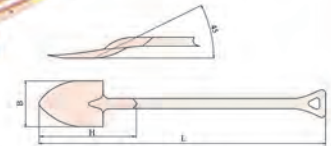


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
199-1002	990	270	520	2330	2130

**No.200 Shovel, Round Point**



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.

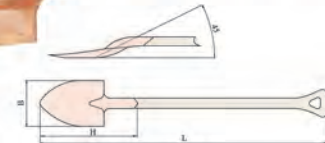


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
200-1002	990	240	420	1553	1420

**No.200A Shovel, Round Point**



- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.
- Japanese type.



Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
200A-1002	830	170	300	1300	1220

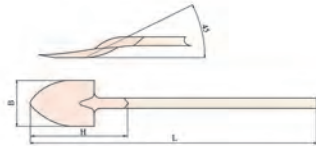




**No.200B Shovel, Round Point**

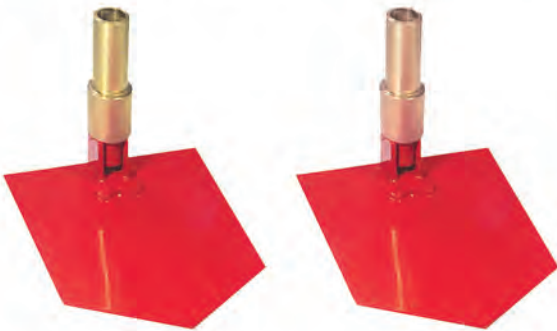


- QB/T 2095 Cold Rolled
- For digging, lifting, and moving application.
- Extra long handle.

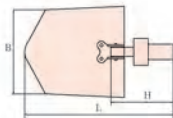


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
200B-1002	1450	240	420	1553	1420

**No.201 Folding Spade**



- Q/ZBF-201 Cold Rolled
- Dual-use. The spade can be fold back used as a hoe.

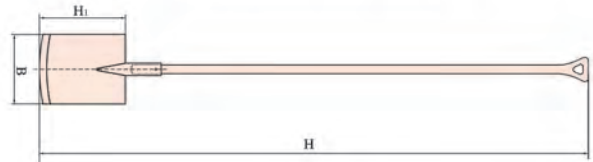


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
201-1002	320	180	130	1500	1350

**No.201A Edging Spade**



- Q/ZBF-201A Precision Casting
- Designed primarily for the purpose of digging, high strength.



Number	H mm	B mm	H <sub>1</sub> mm	Be-Cu g	Al-Cu g
201A-1002	1390	195	290	3500	3200
201A-1004	1440	175	340	3700	3480



**No.201B Shovel, Snow**



- Q/ZBF-201B Cold Rolled
- Designed primarily for the purpose of stack  
Extra Long Handle

Number	B mm	L mm	Brass g
201B-1002	570	1480	2500

**No.201C Shovel, Military**



- Cold Rolled
- For digging, lifting, and moving application.
- Multipurpose, Foldable

Number	B mm	L mm	Be-Cu g	Al-Cu g
201C-1002	150	590	1370	1300





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ENTERPRISE CREDIT EVALUATION

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Evaluation Area: Machinery and Electronic Products  
证书编号: 2013-008 111 00202  
Certificate Number: 2013-008 111 00202  
评定日期: 2014年11月28日  
Date of Issue: Jan. 23, 2014  
有效期至: 2017年10月23日  
Date of Expiry: Jan. 22, 2017  
查询网站: www.cccme.org.cn, www.12312.gov.cn  
Website: www.cccme.org.cn, www.12312.gov.cn

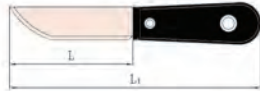
  
中国机电产品进出口商会  
China Chamber of Commerce for Import & Export  
Of Machinery and Electronic Products



**No.202 Knife, Common**



- Q/ZBF-202 Cold Rolled
- Cutting tool, plastic handle.

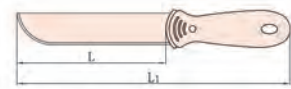


Number	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
202-1002	80	185	90	105
202-1004	145	250	105	125

**No.202B Knife, Common**



- Q/ZBF-202B Cold Rolled
- Cutting tool, plastic handle.

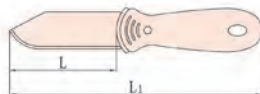


Number	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
202B-1002	80	193	90	105
202B-1004	137	250	105	125

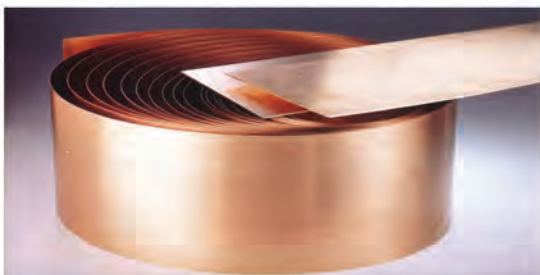
**No.202A Knife**



- Q/ZBF-202A Cold Rolled
- Cutting tool, plastic handle.



Number	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
202A-1002	90	203	95	110



**No.203 Knife, Putty**



- QB/T 2083 Cold Rolled
- Suitable for scraping or spreading.

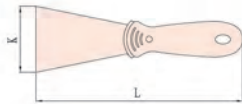
Number	K mm	L mm	Be-Cu g	Al-Cu g	Qty Carton	Be-Cu Gw kg	Al-Cu Gw kg
203-1002	25	200	85	95	20	1.95	2.15
203-1004	40	200	90	105	20	2.30	2.60
203-1006	50	200	95	110	20	2.40	2.70
203-1008	65	200	100	120	20	2.50	2.90



**No.203A Knife, Putty**



- QB/T2083 Cold Rolled
- Suitable for scraping or spreading.

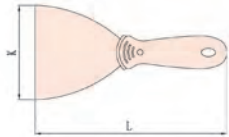


Number	K mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
203A-1002	25	203	85	95	20	1.95	2.15
203A-1004	40	203	90	105	20	2.30	2.60
203A-1006	50	203	95	110	20	2.40	2.70
203A-1008	65	203	100	120	20	2.50	2.90

**No.203B Knife, Putty**

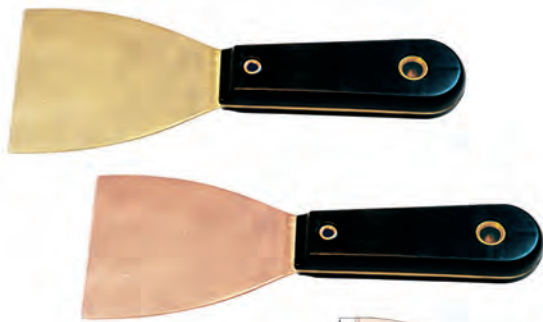


- QB/T2083 Cold Rolled
- Suitable for scraping or spreading.

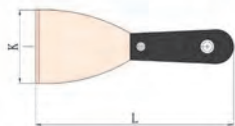


Number	K mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
203B-1002	75	203	110	130	20	2.65	3.05
203B-1004	100	203	125	150	20	3.55	3.80
203B-1006	150	253	280	310	/	/	/

**No.204 Knife, Putty**



- QB/T2083 Cold Rolled
- Suitable for scraping or spreading

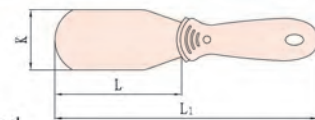


Number	K mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
204-1002	75	200	110	130	20	2.65	3.05
204-1004	100	200	125	150	20	3.55	3.80
204-1006	150	250	215	310	/	/	/

**No.204A Spatula**



- Q/ZBF-204A Cold Rolled
- Used for mixing and spreading



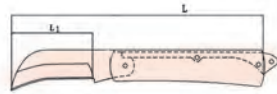
Number	K mm	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
204A-1002	30	90	203	85	80
204A-1004	50	105	218	115	110
204A-1006	90	120	233	160	145



**No.204B Electrician Knife**

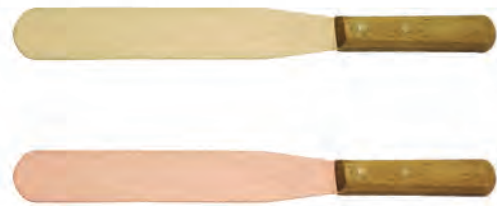


- QB/T2208 Die forged
- Cutting tool, mainly used in electrician's job.

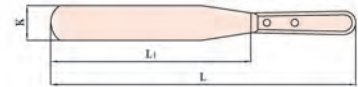


Number	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
204B-1002	60	195	210	185

**No.204D Spatula**

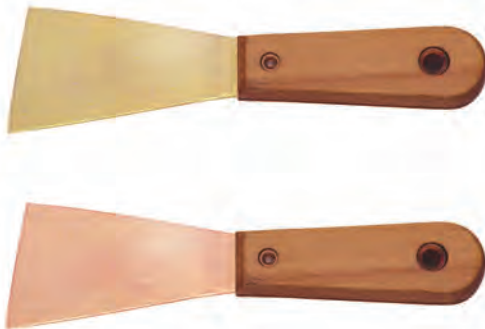


- Q/ZBF-204D Cold Rolled
- Suitable for scraping or spreading, extra long blade.

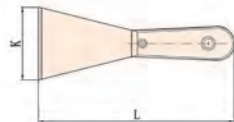


Number	K mm	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
204D-1002	40	350	230	120	110

**No.204C Knife, Putty**



- QB/T2083 Cold Rolled
- Suitable for scraping or spreading,
- Wood handle.

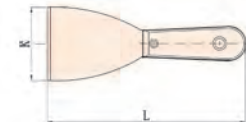


Number	K mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
204C-1002	25	200	85	95	20	1.95	2.15
204C-1004	40	200	90	105	20	2.30	2.60
204C-1006	50	200	95	110	20	2.40	2.70
204C-1008	65	200	100	120	20	2.50	2.90

**No.204E Knife, Putty**



- QB/T2083 Cold Rolled
- Suitable for scraping or spreading,
- Wood handle.



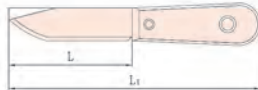
Number	K mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
204E-1002	75	200	110	130	20	2.65	3.05
204E-1004	100	200	125	150	20	3.55	3.80
204E-1006	150	250	215	310	/	/	/



**No.204F Knife**



- Q/ZBF-204F Cold Rolled
- Knife with leather case.

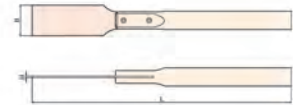


Number	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
204F-1002	110	216	90	120

**No.205 Scraper**



- Q/ZBF205 Cold Rolled
- Scraper with long wooden handle.

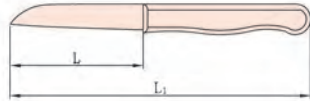


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
205-1002	902	50	2	683	625

**No.204G Knife**



- Q/ZBF-204G Cold Rolled
- Knife with long wooden handle.

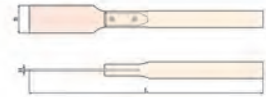


Number	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
204G-1002	75	180	90	120

**No.205A Scraper**



- Q/ZBF-205A Cold Rolled
- Scraper with long plastic handle.

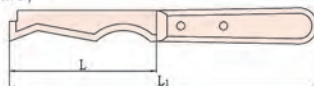


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
205A-1002	902	50	2	683	625

**No.204H Knife**



- Q/ZBF-204H Cold Rolled
- Knife with wooden handle, suitable for cutting and scraping.



Number	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
204H-1002	120	230	120	110

**No.205B Scraper**



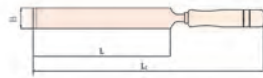
- Q/ZBF-205B Cold Rolled
- Scraper with long metal handle.
- Interchangeable head.

Number	L mm	B mm	Be-Cu g	Al-Cu g
205B-1002	1190	50	2800	2550
205B-1004	1205	75	3130	2850
205B-1006	1220	100	3300	3000

**No.206 Scraper, Flat**



- Q/ZBF-206 Die forged
- Scraping tool.



Number	L mm	B mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
206-1002	200	30	325	330	300
206-1004	300	30	430	480	440
206-1006	350	35	490	640	580
206-1008	350	50	490	1020	910
206-1010	400	60	560	1520	1330

**No.207 Scraper, Deck**



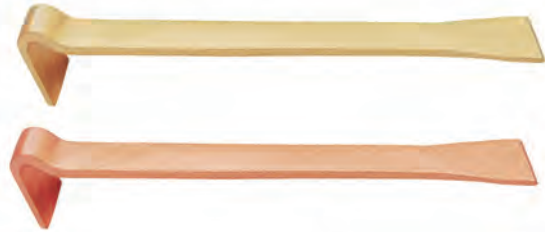
- Q/ZBF-207 Die forged
- Scraping tool.



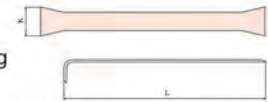
Number	L mm	B mm	Be-Cu g	Al-Cu g
207-1002	250	39	285	255
207-1004	300	45	380	335
207-1006	350	55	555	507
207-1008	400	50	775	700
207-1010	650	56	1405	1290
207-1012	750	58	1540	1380

Number	L inch	B inch	Be-Cu g	Al-Cu g
207A-1002	12	2	460	425

**No.208 Scraper, Deck**



- Q/ZBF-208 Precision Casting
- Scraping tool.

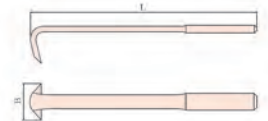


Number	L mm	K mm	Be-Cu g	Al-Cu g
208-1002	270	40	371	338

**No.209 Scraper, Deck**



- Q/ZBF-209 Die forged
- Scraping tool.



Number	L mm	B mm	Be-Cu g	Al-Cu g
209-1002	300	48	432	391

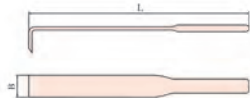




**No.210 Scraper, Deck**



- Q/ZBF-210 Die forged
- Scraping tool.



Number	L mm	B mm	Be-Cu g	Al-Cu g
210-1002	380	38	821	720

**No.212 Scraper**



- Q/ZBF-212 Die forged
- New type, sharp blade, labor saving.

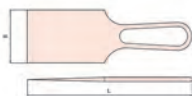


Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
212-1002	690	90	50	550	520
212-1004	705	100	75	750	700
212-1006	720	115	100	850	800
212-1008	765	150	150	1400	1300

**No.211 Scraper, Spray Booth**

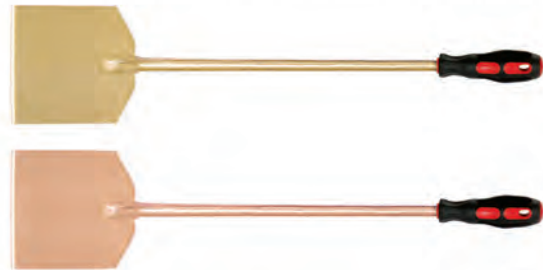


- Q/ZBF-211 Precision Casting
- Used for spray paint booth operations, labor saving.



Number	L mm	B mm	Be-Cu g	Al-Cu g
211-1002	235	76	392	358

**No.212A Scraper, Hand Style**



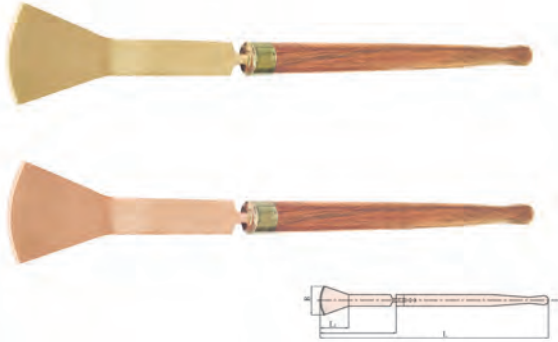
- Q/ZBF-212A Die forged
- New type, sharp blade, labor saving.



Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
212A-1002	480	95	95	600	540



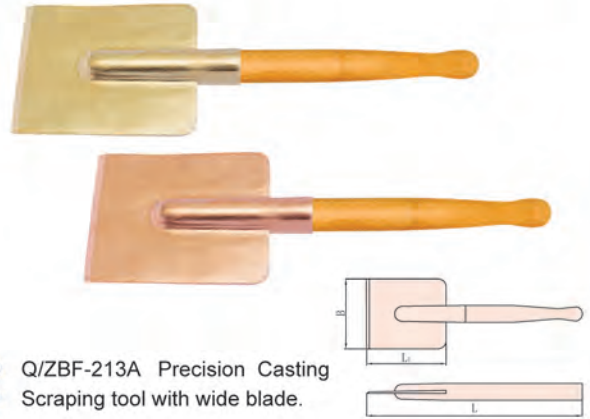
**No.212B Scraper, Rust**



- Q/ZBF-212B Die forged
- Cleaning irregularly arc surface.

Number	L mm	B mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
212B-1002	600	75	75	700	620

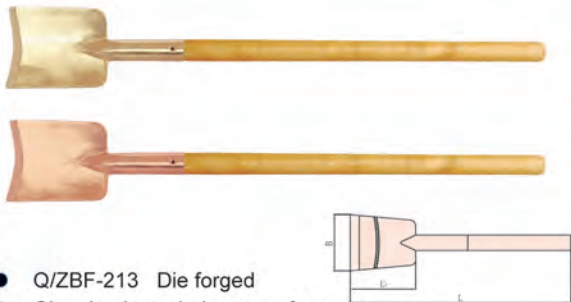
**No.213A Scraper, Floor**



- Q/ZBF-213A Precision Casting
- Scraping tool with wide blade.

Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
213A-1002	460	170	150	1150	1000

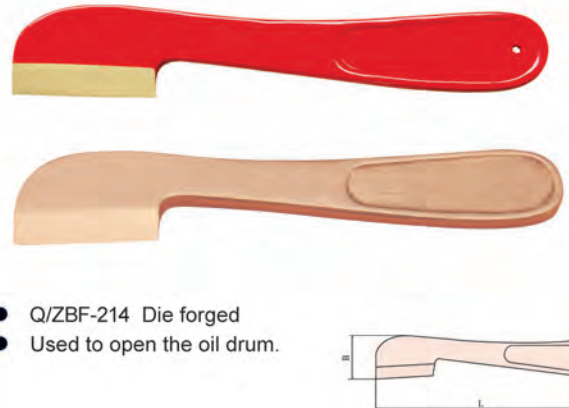
**No.213 Scraper, Arched**



- Q/ZBF-213 Die forged
- Cleaning irregularly arc surface.

Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
213-1002	690	120	50	650	600
213-1004	710	120	100	925	830
213-1006	720	120	150	1080	980

**No.214 Opener Carbide Drum**



- Q/ZBF-214 Die forged
- Used to open the oil drum.

Number	L mm	B mm	Be-Cu g	Al-Cu g
214-1002	280	53	655	595

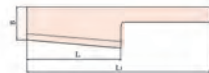




**No.215 Scraper, Tile Cleaver**



- QB/T 2212.17 Die forged
- Used for bricklaying.

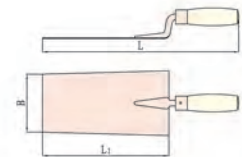


Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
215-1002	180	350	55	610	550

**No.215B Trapezia Shovel Bricklayer's**



- QB/T2212.12 Cold Rolled
- Used for bricklaying.

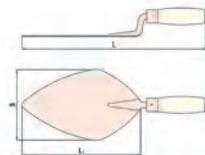


Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
215B-1002	290	160	80	420	390

**No.215A Trowel Bricklayer's**

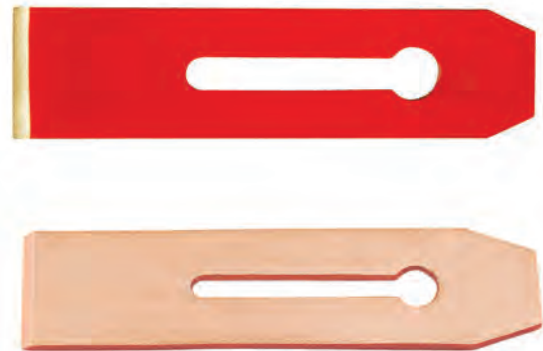


- QB/T2212.14 Cold Rolled
- Used for bricklaying.

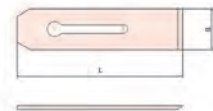


Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
215A-1002	335	215	130	700	620

**No.216 Plane's Blade**

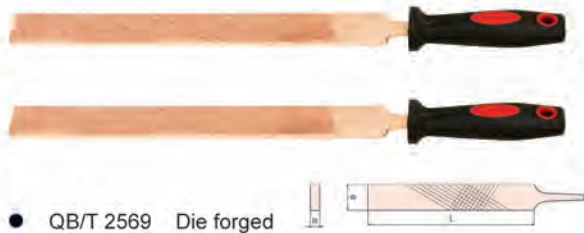


- Q/ZBF-216 Die forged
- Used for chipping and planing.



Number	L mm	B mm	Be-Cu g
216-1002	175	43	130

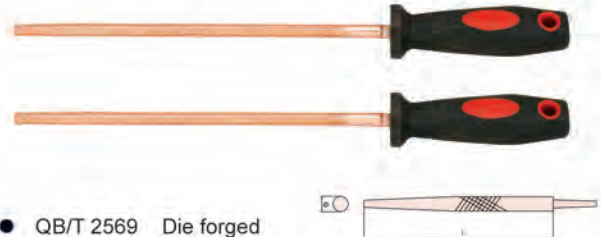
## No.217 File, Flat



- QB/T 2569 Die forged
- Used to cut fine amounts of material from a workpiece.
- Bastard & Medium & Smooth

Number	L inch	L mm	B mm	H mm	Be-Cu g
217-1002	6	150	16	4	75
217-1004	8	200	21	4.5	160
217-1006	10	250	25	6	282
217-1008	12	300	30	6.5	455
217-1010	14	350	32	8	675
217-1012	16	400	32	9.5	925

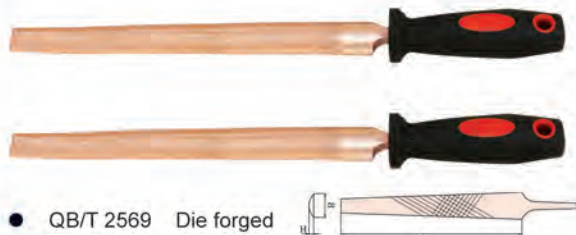
## No.219 File, Round



- QB/T 2569 Die forged
- Used to cut fine amounts of material from a workpiece.
- Bastard & Medium & Smooth

Number	L inch	L mm	Φ mm	Be-Cu g
219-1002	6	150	6.5	45
219-1004	8	200	7.5	91
219-1006	10	250	8.5	122
219-1008	12	300	9.5	180
219-1010	14	350	10.5	250

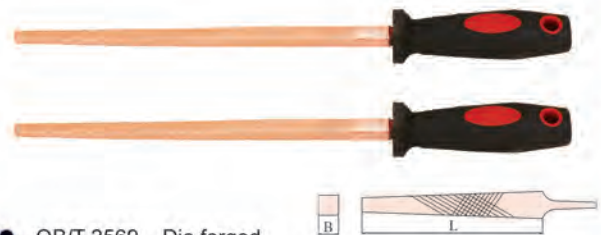
## No.218 File, Half Round



- QB/T 2569 Die forged
- Used to cut fine amounts of material from a workpiece.
- Bastard & Medium & Smooth

Number	L inch	L mm	B mm	H mm	Be-Cu g
218-1002	6	150	22	6	105
218-1004	8	200	23	7	190
218-1006	10	250	26	8	255
218-1008	12	300	28	9	375
218-1010	14	350	30	10	565

## No.220 File, Square



- QB/T 2569 Die forged
- Used to cut fine amounts of material from a workpiece.
- Bastard & Medium & Smooth

Number	L inch	L mm	B mm	Be-Cu g
220-1002	8	200	8	130
220-1004	10	250	10	155
220-1006	12	300	11	202
220-1008	14	350	12	303

## No.221 File, Triangle



- QB/T 2569 Die forged
- Used to cut fine amounts of material from a workpiece
- Bastard & Medium & Smooth.

Number	L inch	L mm	B mm	Be-Cu g
221-1002	8	200	12	115
221-1004	10	250	13	125
221-1006	12	300	14	160
221-1008	14	350	14	205



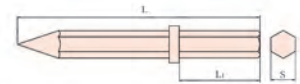
**No.221A File Set-5pcs**



- QB/T 2569 Die forged
- Used to cut fine amounts of material from a workpiece

Number	L mm	Φ mm	Be-Cu g
221A-○	180	5	140
221A-□	180	5	
221A-△	180	5	
221A-□	180	5	
221A-D	180	5	

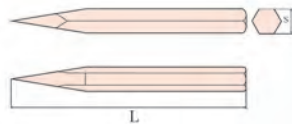
**No.223 Chisel, Pneumatic Bull Point**



- Q/ZBF-223 Die forged
- Designed to fit pneumatic tools.

Number	S mm	L mm	L1 mm	Be-Cu g	Al-Cu g
223-1002	28	500	150	2650	2400

**No.222 Punch, Machinists'**



- Q/ZBF-222 Die forged
- For creating a dimple in wood or plastic.

Number	S mm	L mm	Be-Cu g	Al-Cu g
222-1002	14	150	165	155
222-1004	18	200	385	355
222-1006	20	250	610	555
222-1008	20	300	725	660

**No.223A Punch Machinists'**

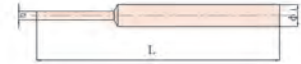


- Q/ZBF-223A Die forged
- For creating a dimple in wood or plastic, usually struck by a hammer.

Number	Φ mm	L mm	Be-Cu g	Al-Cu g
223A-1002	5	150	235	215
223A-1004	8	150	285	255
223A-1006	10	150	345	315



## No.223B Drift Cylindrical



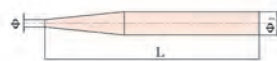
- DIN 6450 Die forged
- Used to drive pins for affixing a fixture to a rotating shaft.

Number	Φ mm	Φ <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
223B-1002	3	9	110	20	15
223B-1004	4	10	110	57	50
223B-1006	6	12	115	105	95
223B-1008	8	14	120	130	115
223B-1010	10	16	145	200	180
223B-1012	12	18	160	280	260
223B-1014	14	20	180	410	380
223B-1016	16	24	200	640	600
223B-1018	18	30	225	1070	960
223B-1020	20	32	225	1230	1110

## No.223C Punch



- Q/ZBF-223C Die forged
- Used to drive pins for affixing a fixture to a rotating shaft.

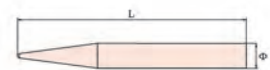


Number	Φ mm	Φ <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
223C-1002	5	11	150	105	95
223C-1004	6	12	150	130	115
223C-1006	7	13	150	150	135
223C-1008	8	14	150	170	150
223C-1010	10	16	175	255	230
223C-1012	12	18	175	335	300
223C-1014	13	29	255	1180	1060

## No.223D Punch, Machinists



- Q/ZBF-223D Die forged
- Drilling tool



Number	L mm	Φ mm	Be-Cu g	Al-Cu g
223D-1002	160	18	290	265
223D-1004	250	18	470	425
223D-1006	300	18	600	545
223D-1008	300	20	700	635
223D-1010	300	25	1100	995
223D-1012	400	18	800	725
223D-1014	400	20	1000	885

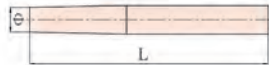




**No.223E Drift pin, barrel straight**



- Q/ZBF-223E Die forged
- Used as an aid in aligning bolt or rivet holes prior to inserting a fastener.



Number	L mm	Φ mm	Φ <sub>1</sub> mm	Be-Cu g	Al-Cu g
223E-1002	150	8	11	125	118
223E-1004	150	10	13	155	140
223E-1006	150	12	15	215	190
223E-1008	200	14	18	420	380
223E-1010	200	15	19	435	390
223E-1012	200	16	20	480	435
223E-1014	200	17	21	570	540
223E-1016	250	18	22	600	560
223E-1018	250	19	23	860	780
223E-1020	250	20	24	875	790
223E-1022	250	21	25	950	885
223E-1024	250	22	26	965	920
223E-1026	250	24	28	1270	1150
223E-1028	250	25	29	1300	1170
223E-1030	250	26	30	1390	1250
223E-1032	300	27	31	1900	1770

**No.223F Punch, Center**



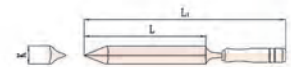
- Die forged
- Used to mark the centre of a hole when drilling holes.

Number	L mm	Φ mm	Be-Cu g	Al-Cu g
223F-1002	100	12	80	70

**No.224 Scraper, Triangular**



- Q/ZBF-224 Precision Casting
- Scraping tool

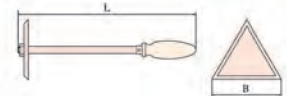


Number	L mm	L <sub>1</sub> mm	K mm	Be-Cu g	Al-Cu g
224-1002	160	280	22	245	225
224-1004	300	425	26	645	590

**No.224A Scraper Plate**



- Q/ZBF-224A Die forged
- Scraping tool



Number	L mm	B mm	Be-Cu g	Al-Cu g
224A-1002	470	150	900	810

**No.224B Scraper, Halfmoon**



- Q/ZBF-224B Die forged
- Scraping tool

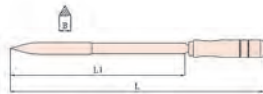


Number	L mm	B mm	Be-Cu g	Al-Cu g
224B-1002	326	100	260	235

**No.224C Scraper, Triangular**



- Q/ZBF-224C Die forged
- Scraping tool

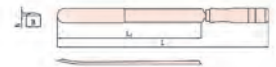


Number	L mm	L <sub>1</sub> mm	K mm	Be-Cu g	Al-Cu g
224C-1002	440	300	20	420	380

**No.224D Scraper, Half Round**



- Q/ZBF-224D Die forged
- Scraping tool



Number	L mm	L <sub>1</sub> mm	B mm	H mm	Be-Cu g	Al-Cu g
224D-1002	440	300	30	5	420	380

**No.225 Chisel, Cross**



- Q/ZBF-225 Die forged
- Used for cutting grooves and slots.

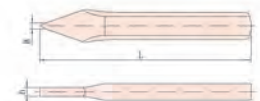


Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
225-1002	20	200	8	475	432

**No.225A Chisel, Cross Cutting**

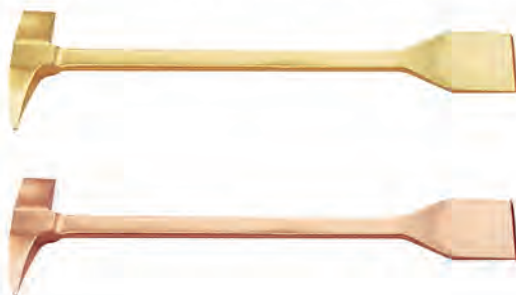


- DIN6451 Die forged
- Used for cutting grooves and slots.

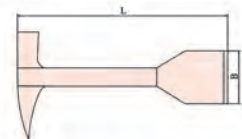


Number	L mm	B mm	h mm	Be-Cu g	Al-Cu g
225A-1002	140	4	6	280	255
225A-1004	200	4	7	480	435
225A-1006	300	5	8	840	760

**No.225B Scraper Pick And Scaler**



- Q/ZBF-225B Die forged
- Dual-use. one end used to striking the brick and tile and the other end used as a scraper.



Number	L mm	B mm	Be-Cu g	Al-Cu g
225B-1002	450	75	1285	1155



**No.225C Chisel, Flat**

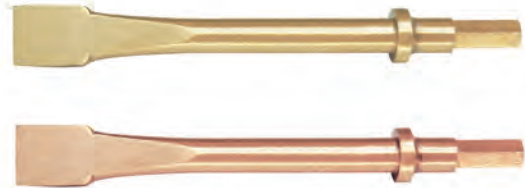


- DIN6453 Die forged
- Used for cutting grooves and slots

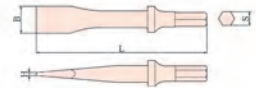


Number	B mm	L mm	Be-Cu g	Al-Cu g
225C-1002	22	150	255	230
225C-1004	22	200	325	295
225C-1006	24	250	525	480
225C-1008	25	300	740	675
225C-1010	27	400	1155	1050

**No.227 Chisel, Pneumatic**



- Q/ZBF-227 Die forged
- Designed to fit pneumatic tools.

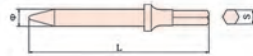


Number	S mm	L mm	B mm	H mm	Be-Cu g	Al-Cu g
227-1002	10	125	20	2	160	141
227-1004	10	175	20	2	210	182

**No.226 Chisel, Pneumatic**



- Q/ZBF-226 Die forged
- Designed to fit pneumatic tools.

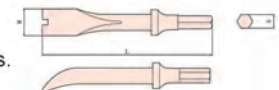


Number	S mm	L mm	Φ mm	Be-Cu g	Al-Cu g
226-1002	10	125	12	117	102
226-1004	10	175	12	168	143

**No.228 Chisel, Pneumatic**



- Q/ZBF-228 Die forged
- Designed to fit pneumatic tools.



Number	S mm	L mm	B mm	Be-Cu g	Al-Cu g
228-1002	10	125	20	152	117
228-1004	10	175	20	190	122

**No.226A Chisel, Pneumatic**

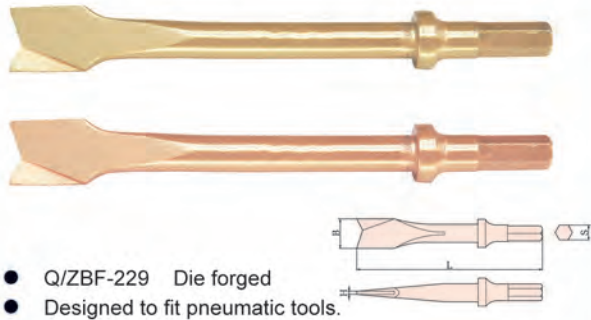


- Q/ZBF-226A Die forged
- Designed to fit pneumatic tools.

Number	L mm	Φ mm	Be-Cu g	Al-Cu g
226A-1002	300	20	850	775
226A-1004	455	30	2880	2630



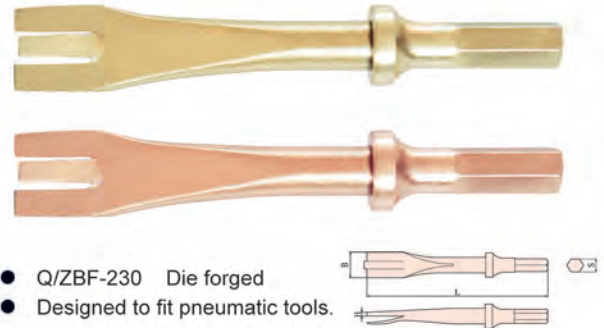
**No.229 Chisel, Pneumatic**



- Q/ZBF-229 Die forged
- Designed to fit pneumatic tools.

Number	S mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
229-1002	10	125	2	20	162	142
229-1004	10	175	2	20	213	183

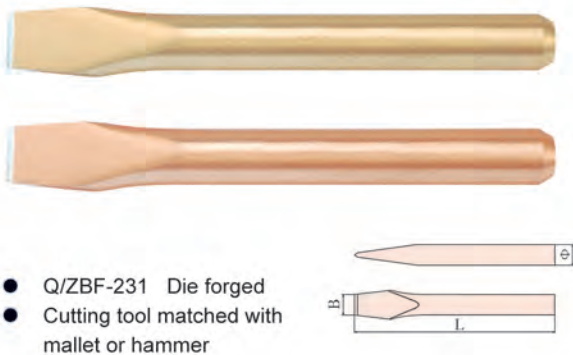
**No.230 Chisel, Pneumatic**



- Q/ZBF-230 Die forged
- Designed to fit pneumatic tools.

Number	S mm	L mm	B mm	H mm	Be-Cu g	Al-Cu g
230-1002	10	125	20	2	127	112
230-1004	10	175	20	2	178	153

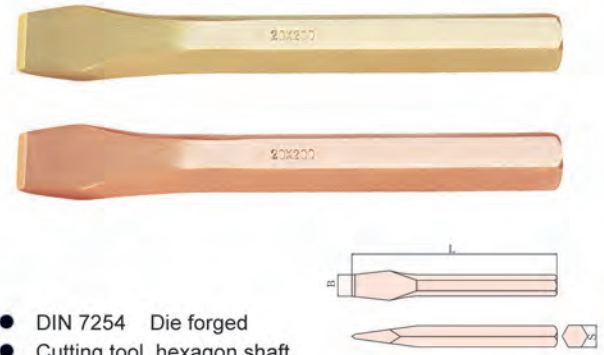
**No.231 Chisel, Flat**



- Q/ZBF-231 Die forged
- Cutting tool matched with mallet or hammer

Number	L mm	Φ mm	B mm	Be-Cu g	Al-Cu g
231-1002	160	14	14	175	160
231-1004	160	16	16	231	210
231-1006	160	18	18	295	271
231-1008	200	18	18	382	342
231-1010	200	20	20	473	430
231-1012	250	24	24	822	751
231-1014	300	24	24	1025	942
231-1016	300	25	25	1302	1002
231-1018	400	25	25	1502	1360
231-1020	500	25	25	1903	1730
231-1022	500	30	30	2730	2481

**No.232 Chisel Hex/6 Point**



- DIN 7254 Die forged
- Cutting tool, hexagon shaft.

Number	S mm	L mm	B mm	Be-Cu g	Al-Cu g
232-1002	10	150	12	98	92
232-1004	14	200	16	251	231
232-1006	16	160	18	262	242
232-1008	14	250	16	320	302
232-1010	17	300	19	772	701
232-1012	17	350	19	903	821
232-1014	22	600	24	1861	1702
232-1016	25	300	28	1204	1090
232-1018	30	500	35	2860	2620

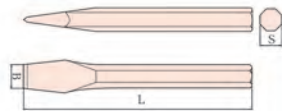




**No.233 Chisel 8 Point**



- QB/T 2613.2 Die forged
- Cutting tool, octagon shaft.

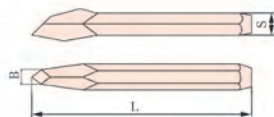


Number	L mm	S mm	B mm	Be-Cu g	Al-Cu g
233-1002	160	14	14	186	170
233-1004	160	16	16	255	230
233-1006	180	19	19	402	366
233-1008	200	19	19	451	411
233-1010	200	22	22	650	562
233-1012	250	24	24	880	792
233-1014	300	24	24	1052	950
233-1016	300	30	30	1603	1450
233-1018	400	27	27	1780	1620

**No.233A Chisel, Diamond Point**



- Q/ZBF-233A Die forged
- Diamond-shaped cutting face for cutting V grooves or sharp internal corners.

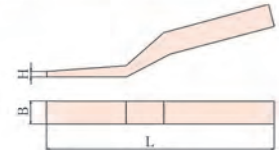


Number	S mm	L mm	B mm	Be-Cu g	Al-Cu g
233A-1002	20	200	13	580	525

**No.234 Caulking Tool**



- Q/ZBF-234 Die forged
- Used to seal joints or seams.



Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
234-1002	200	20	5	495	455
234-1004	250	20	8	652	585

**No.234A Caulking Tool**



- Q/ZBF-234A Die forged
- Used for striking or tamping down cement.



Number	S mm	L mm	Be-Cu g	Al-Cu g
234A-1002	50	1200	18450	16850



**No.235 Wedge, Flange**



- Q/ZBF-235 Die forged
- Used to lever up equipments.



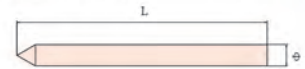
Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
235-1002	80	13	6	25	23
235-1004	100	50	10	201	185
235-1006	135	50	18	497	455
235-1008	150	40	8	200	180
235-1010	150	25	8	122	112
235-1012	150	25	13	205	185
235-1014	150	50	13	400	365
235-1016	180	32	13	305	280
235-1018	180	50	19	700	640
235-1020	200	20	30	490	451
235-1022	200	30	30	740	675
235-1024	200	40	40	1315	1200
235-1026	200	50	12	500	450
235-1028	230	40	20	751	690
235-1030	250	40	30	1230	1125
235-1032	300	50	40	2460	2250

Number	L inch	B inch	H inch	Be-Cu g	Al-Cu g
235-1001	4	3/4	1/2	110	100
235-1003	6	1	1/2	220	200
235-1005	6	1-1/2	3/4	480	435
235-1007	7	2	3/4	755	680
235-1009	8	1-1/2	1	855	770
235-1011	8-1/2	2	1-1/4	1500	1360

**No.236 Punch, Center**

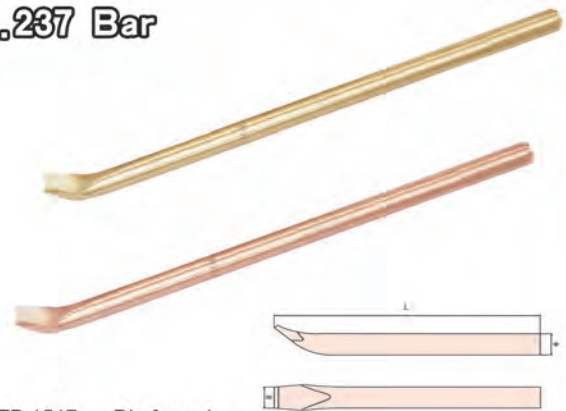


- Q/ZBF-236 Die forged
- Used to mark the centre of a hole when drilling holes.



Number	L mm	Φ mm	Be-Cu g	Al-Cu g
236-1002	100	16	145	125
236-1004	150	16	230	205
236-1006	200	18	392	340
236-1008	300	18	615	540
236-1010	400	18	820	740
236-1012	500	20	1230	1102
236-1014	500	30	2740	2480

**No.237 Bar**



- TB 1517 Die forged
- Used for prying, moving, rolling, or lifting heavy objects.

Number	L mm	Φ mm	B mm	Be-Cu g	Al-Cu g
237-1002	500	15	15	738	675
237-1004	500	19	19	1150	1050
237-1006	500	20	20	1295	1185
237-1008	500	25	25	1975	1805
237-1010	500	30	30	2925	2675
237-1012	600	25	25	2380	2175
237-1014	600	30	30	3450	3155
237-1016	800	23	23	2290	2095
237-1018	800	25	25	3175	2905
237-1020	800	30	30	4490	4105
237-1022	850	30	30	4870	4455
237-1024	1000	25	25	3985	3645
237-1026	1000	28	28	4710	4305
237-1028	1000	30	30	5595	5115
237-1030	1200	25	25	4795	4385
237-1032	1200	30	30	6970	6375
237-1034	1500	30	30	8665	7925





**No.237A Bar, Pinch**



- Q/ZBF-237A Die forged
- Used for prying, moving, rolling, or lifting heavy objects. One end of the bar is tapered to a point.

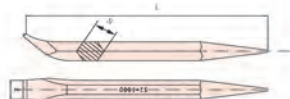


Number	L mm	Φ mm	B mm	Be-Cu g	Al-Cu g
237A-1002	500	15	15	672	615
237A-1004	500	19	19	1093	1001
237A-1006	500	20	20	1148	1052
237A-1008	500	23	23	1481	1355
237A-1010	600	25	25	2132	1950
237A-1012	800	23	23	2530	2293
237A-1014	1000	30	30	5193	4752

**No.237B Bar (Hex) Pinch**



- Q/ZBF-237B Die forged
- Used for prying, moving, rolling, or lifting heavy objects. One end of the bar is tapered to a point.

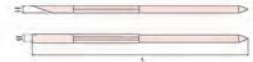


Number	L mm	S mm	B mm	Be-Cu g	Al-Cu g
237B-1002	500	18	20	1200	1090
237B-1004	500	20	22	1450	1320
237B-1006	600	20	22	1750	1600
237B-1008	1000	22	24	3500	3200
237B-1010	1000	25	28	4500	4080
237B-1012	1500	25	28	6750	6120
237B-1014	1000	35	38	8800	8000

**No.237C Bar Crow**



- Q/ZBF-237C Die forged
- Used for prying, moving, rolling, or lifting heavy objects. One end of the bar is tapered to a point.



Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
237C-1002	650	20	23	1855	1675
237C-1004	1500	30	25	8910	8110

**No.237C Bar Crow, American Type**



Number	L inch	H inch	B inch	Be-Cu g	Al-Cu g
237C-1001	60	1-1/4	1-3/8	8920	8050

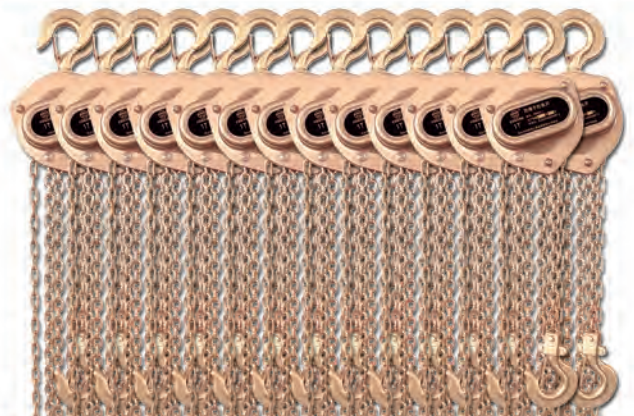
**No.237D Bar, Pinch**



- Q/ZBF-237D Die forged
- Used for prying, moving, rolling, or lifting heavy objects.



Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
237D-1002	600	3	52	2435	2221



## No.237E Spike



- Q/ZBF-237E Precision Casting
- Used for prying, moving, rolling, or lifting heavy objects. The fulcrum provide more leverage.

Number	L mm	Φ mm	Be-Cu g	Al-Cu g
237E-1002	600	22	2320	2100

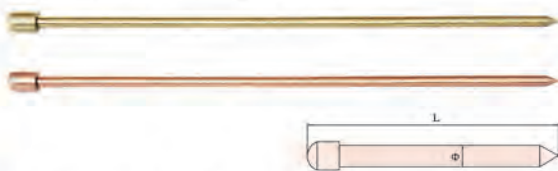
## No.237F Tire Pry Bar



- Q/ZBF-237F Cold Drawn
- Used for prying, moving, rolling, or lifting heavy objects, grinded tire disassembling etc.

Number	L mm	B mm	Be-Cu g	Al-Cu g
237F-1002	200	22	255	220
237F-1004	300	22	400	350
237F-1006	600	25	1150	1000
237F-1008	800	26	1725	1500

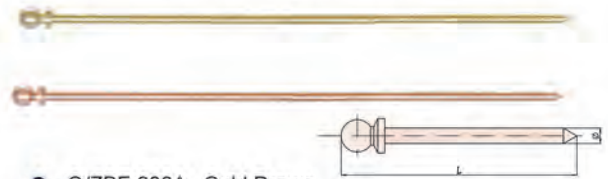
## No.238 Hearing Needle



- Q/ZBF-238 Cold Drawn
- This is an ideal tool to accurately judge and find out the problems upon the principal of sound transmission.

Number	L mm	Φ mm	Be-Cu g	Al-Cu g
238-1002	250	6	85	75
238-1004	300	8	150	135
238-1006	400	7	160	145
238-1008	500	10	335	305

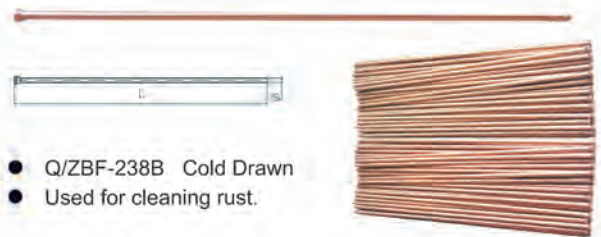
## No.238A Hearing Needle With Ball



- Q/ZBF-238A Cold Drawn
- This is an ideal tool to accurately judge and find out the problems upon the principal of sound

Number	L mm	Φ mm	Be-Cu g	Al-Cu g
238A-1002	500	6	130	115

## No.238B Needle



- Q/ZBF-238B Cold Drawn
- Used for cleaning rust.

Number	L mm	Φ mm	Be-Cu g
238B-1002	180	3	12

## No.238C Hearing Needle



- Q/ZBF-238 Cold Drawn
- Adjustable length, portability.

Number	L mm	Be-Cu g	Al-Cu g
238C-1002	400-1000	330	300

## No.238D Mine Prodder

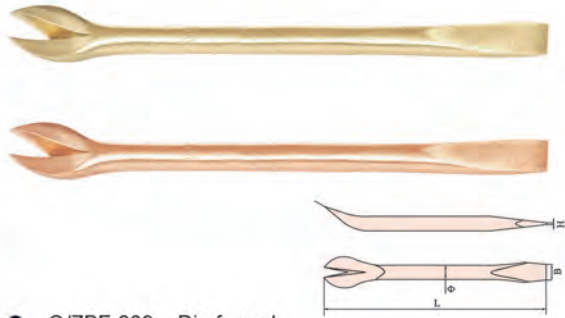


- Q/ZBF-238 Cold Drawn
- It is developed to locate mines buried at depths up to 250mm. Primarily intended for situations where a magnetic device could considered important.

Number	L mm	d mm	Be-Cu g	Al-Cu g
238D-1002	575-1030	5	400	360



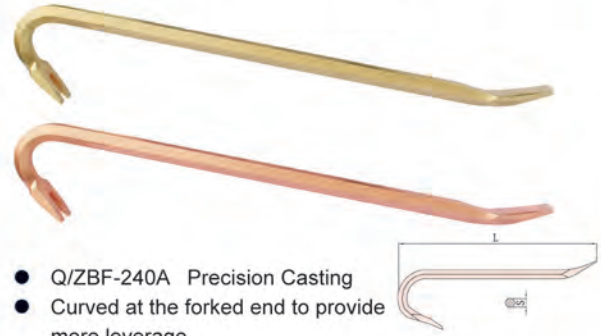
**No.239 Bar, Wrecking**



- Q/ZBF-239 Die forged
- Used for prying and removing nails.

Number	L mm	Φ mm	B mm	H mm	Be-Cu g	Al-Cu g
239-1002	250	13	15	1.5	280	250

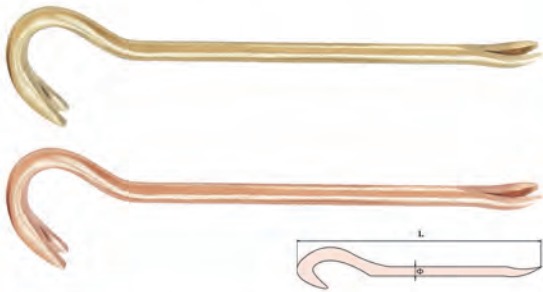
**No.240A Bar, Wrecking Hex**



- Q/ZBF-240A Precision Casting
- Curved at the forked end to provide more leverage.

Number	L mm	S mm	Be-Cu g	Al-Cu g
240A-1002	460	16	1080	980
240A-1004	760	22	3100	2800
240A-1006	920	22	3650	3300

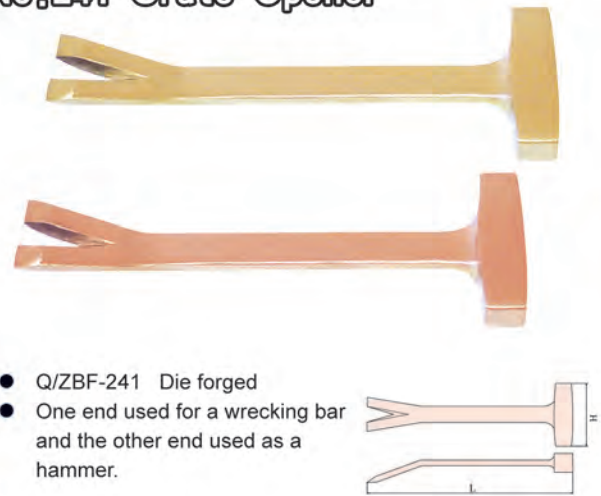
**No.240 Bar, Wrecking**



- Q/ZBF-240 Precision Casting
- Curved at the forked end to provide more leverage.

Number	L mm	Φ mm	Be-Cu g	Al-Cu g
240-1002	400	16	752	685
240-1004	600	16	1102	1002
240-1006	800	19	2200	2011
240-1008	1200	20	3570	3266

**No.241 Crate Opener**



- Q/ZBF-241 Die forged
- One end used for a wrecking bar and the other end used as a hammer.

Number	L mm	H mm	Be-Cu g	Al-Cu g
241-1002	230	70	471	430





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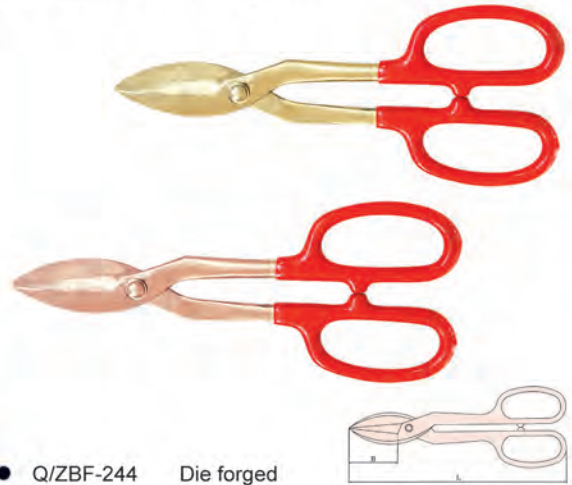
**No.242 Shears, Cutting**



- QB/T 1966 Die forged
- Hand-operated cutting instruments.

Number	L mm	B mm	Be-Cu g	Al-Cu g
242-1002	150	61	110	100

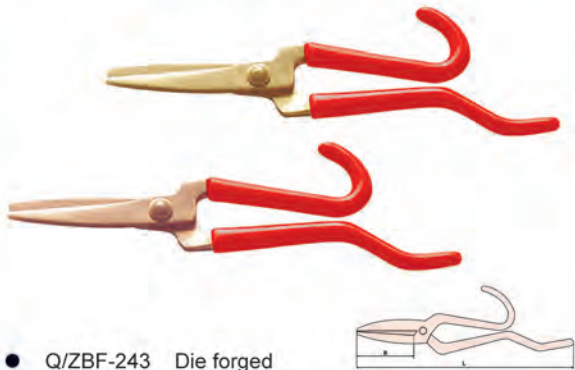
**No.244 Shears, Tin**



- Q/ZBF-244 Die forged
- Used for sheet-metal work, it is equipped with high-leverage handles to facilitate cutting the metal sheet.

Number	L mm	B mm	Be-Cu g	Al-Cu g
244-1002	300	75	488	410

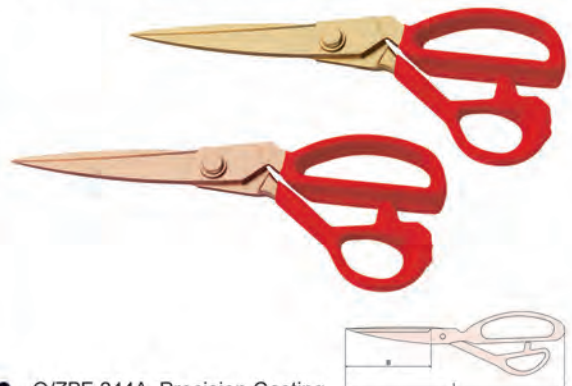
**No.243 Shears, Cutting**



- Q/ZBF-243 Die forged
- Hand-operated cutting instruments.

Number	L mm	B mm	Be-Cu g	Al-Cu g
243-1002	290	91	235	215
243-1004	360	107	900	823

**No.244A Scissors**



- Q/ZBF-244A Precision Casting
- Hand-operated cutting instruments.

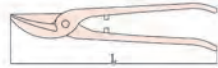
Number	Size inch	L mm	B mm	Be-Cu g	Al-Cu g
244A-1002	9	225	98	245	210



**No.244B Tinner's Snip Plate Shear**



- Q/ZBF-244B Die forged
- Hand-operated cutting instruments.

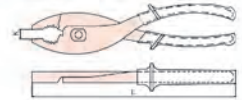


Number	L mm	Be-Cu g	Al-Cu g
244B-1002	280	500	450

**No.245 Pliers, Adjustable Combination**



- QB/T 2319 Die forged
- Serrated teeth with slip joint.

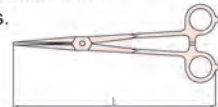


Number	K mm	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
245-1002	8	150	175	165	20	4.15	3.85
245-1004	13	200	355	330	20	8.10	7.60

**No.244C Shears**



- Q/ZBF-244C Die forged
- This is a handheld, hinged instrument used for grasping and holding objects.



Number	L mm	Be-Cu g	Al-Cu g
244C-1002	200	488	410

**No.245A Gas Pliers**



- Q/ZBF-245A Die forged
- Serrated teeth used to grip pipe line or other cylinders.



Number	L mm	Be-Cu g	Al-Cu g
245A-1002	200	350	315

**No.245B Pliers, Adjustable Combination (Germany Type)**



- Die forged
- Serrated teeth with slip joint.

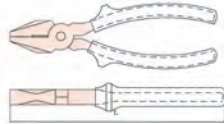
Number	Size inch	L mm	Be-Cu g	Al-Cu g
245B-1002	6	150	190	165
245B-1004	8	200	310	270



## No.246 Pliers, Lineman

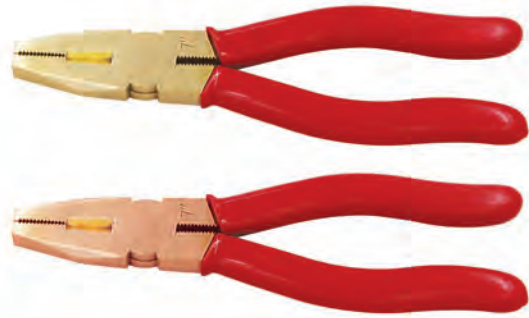


- ISO 5746 Die forged
- Used for cutting and crimping metal or wire.



Number	Size inch	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
246-1002	6	150	250	230	20	5.65	5.28
246-1004	7	175	355	330	20	7.30	6.80
246-1006	8	200	410	375	20	9.20	8.56
246-1008	10	250	550	500	/	/	/

## No.247A Pliers, Cutting (Japan Type)



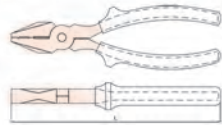
- Die forged
- Used for cutting and crimping metal or wire.

Number	Size inch	L mm	Be-Cu g	Al-Cu g
247A-1002	7	175	340	300
247A-1004	8	200	400	360

## No.247 Pliers, Cutting



- Q/ZBF-247 Die forged
- Used for cutting and crimping metal or wire.



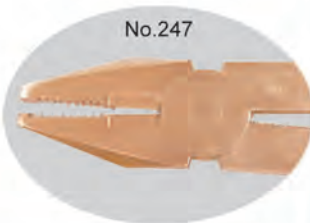
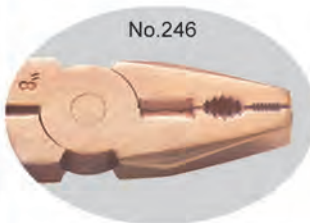
Number	Size inch	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
247-1002	8	200	470	420	20	9.20	8.56

## No.248 Pliers, Diagonal Cutting



- ISO 5749 Die forged
- Mostly used for cutting wire.

Number	Size inch	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
248-1002	6	150	220	200	20	4.95	4.75
248-1004	8	200	410	365	20	9.10	8.45



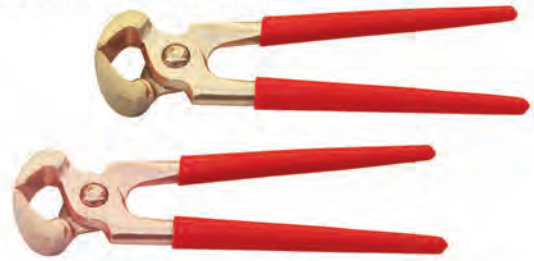
**No.248A Power Side Cutter (American Patten)**



- ISO 5749 Die forged
- Mostly used for cutting wire.

Number	Size inch	L mm	Be-Cu g	Al-Cu g
248A-1002	6	150	175	155
248A-1004	8	200	225	205

**No.249 Pincers**



- ISO 9243 Die forged
- The concentration of force is either to a point, or to an edge perpendicular to the length of the tool. This allows pincers to be brought close to a surface, as is often required when working with nails.

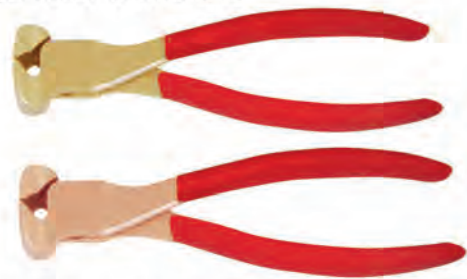
Number	Size inch	L mm	Be-Cu g	Al-Cu g
249-1002	8	200	325	300

**No.248B Mini Pliers, Diagonal Cutting**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
248B-1002	5	125	60	50

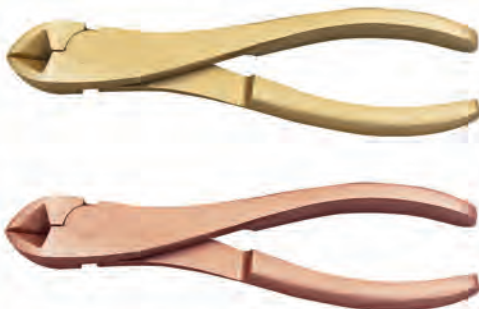
**No.249A Pincers**



- ISO 5748 Die forged
- The concentration of force is either to a point, or to an edge perpendicular to the length of the tool. This allows pincers to be brought close to a surface, as is often required when working with nails.

Number	Size inch	L mm	Be-Cu g	Al-Cu g
249A-1002	7	175	250	225

**No.248C Pliers, Diagonal Cutting (American Type)**



- Die forged
- Mostly used for cutting wire.

Number	Size inch	L mm	Be-Cu g	Al-Cu g
248C-1002	6	150	215	185
248C-1004	8	190	385	330

**No.249B Pincers**



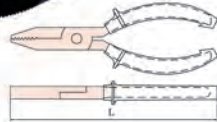
Number	Size inch	L mm	Be-Cu g	Al-Cu g
249B-1002	6	150	190	175



**No.250 Pliers, Flat Nose**

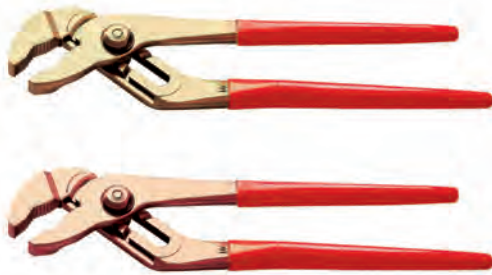


- ISO 5745 Die forged
- Used for holding and crimping metal or wire.



Number	Size inch	L mm	Be-Cu g	Al-Cu g	Qty Carton	Be-Cu Gw kg	Al-Cu Gw kg
250-1002	6	150	200	185	20	4.75	4.40
250-1004	8	200	281	257	20	7.40	6.90

**No.251 Pliers, Groove Joint**



- QB/T 2440.4 Die forged
- The upper jaw can be moved to a number of positions by sliding along a tracking section under the lower jaw. An advantage of this design is that the pliers can adjust to a number of sizes without the distance in the handle growing wider. Commonly used for turning and holding bolts and nuts, gripping irregularly shaped objects and clamping materials.



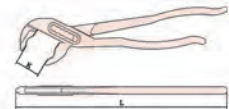
Number	Size inch	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
251-1002	6	150	25	180	160
251-1004	10	250	45	425	370
251-1006	12	300	55	670	600
251-1008	14	350	55	850	770



**No.252 Pliers, Slip Joint**



- ISO 8976 Die forged
- The lower jaw can be moved to a number of positions by sliding along a tracking section under the upper jaw. An advantage of this design is that the pliers can adjust to a number of sizes without the distance in the handle growing wider. Commonly used for turning and holding bolts and nuts, gripping irregularly shaped objects, and clamping materials.

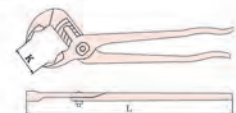


Number	Size inch	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
252-1002	10	250	32	365	335

**No.252A Pliers, Water Pump**



- QB/T 2440.4 Die forged
- The upper jaw can be moved to a number of positions by sliding along a tracking section under the lower jaw. An advantage of this design is that the pliers can adjust to a number of sizes without the distance in the handle growing wider.



Number	Size inch	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
252A-1002	10	250	32	325	310
252A-1004	12	300	52	665	610



**No.252B Pliers, Slip Joint**



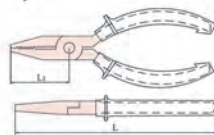
- ISO 8976 Die forged
- The lower jaw can be moved to a number of positions by sliding along a tracking section under the upper jaw. An advantage of this design is that the pliers can adjust to a number of sizes without the distance in the handle growing wider. Commonly used for turning and holding bolts and nuts, gripping irregularly shaped objects, and clamping materials.

Number	K mm	L mm	Be-Cu g	Al-Cu g
252B-1002	25	165	250	220
252B-1004	35	250	500	435
252B-1006	38	300	780	700

**No.253 Pliers, Snipe Nose**



- ISO 5745 Die forged
- Used for cutting wire or holding tiny components.

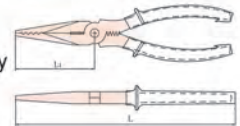


Number	Size inch	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
253-1002	6	150	190	170	20	4.50	4.20
253-1004	8	200	335	300	20	7.15	6.65

**No.254 Pliers, Long Nose**



- ISO 5745 Die forged
- Used for cutting wire or holding tiny components.

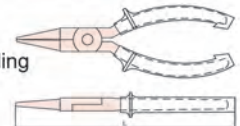


Number	Size inch	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
254-1002	6	150	190	170	20	4.50	4.20
254-1004	8	200	335	300	20	7.15	6.65

**No.255 Pliers, Round Nose**



- ISO 5745 Die forged
- The tapered, conical jaws for bending and shaping wire.



Number	Size inch	L mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
255-1002	6	150	190	175	20	4.50	4.20

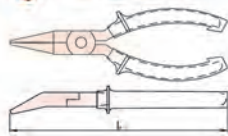




**No.255A Pliers, Round 45 Degree Bent**

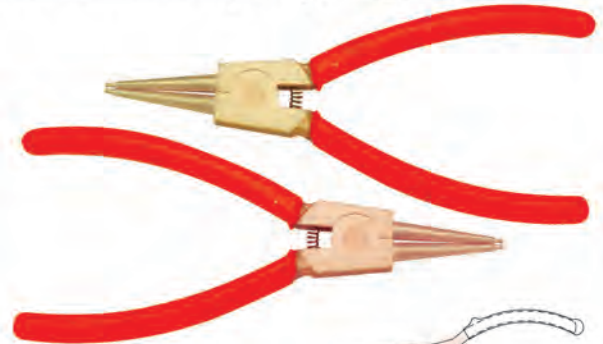


- ISO 5745 Die forged
- Cutting wire or holding tiny components.

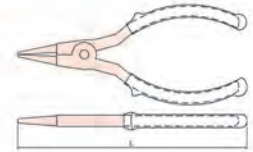


Number	Size inch	L mm	Be-Cu g	Al-Cu g
255A-1002	6	150	190	170

**No.257 Pliers, Snap Ring-External**

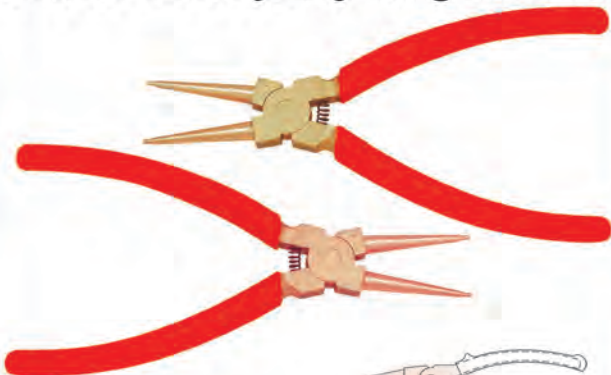


- DIN 5254 Die forged
- Install and remove snap rings

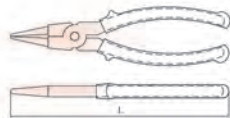


Number	Size inch	L mm	Be-Cu g	Al-Cu g
257-1002	8	200	290	265
257-1004	10	250	415	380

**No.256 Pliers, Snap Ring-Internal**

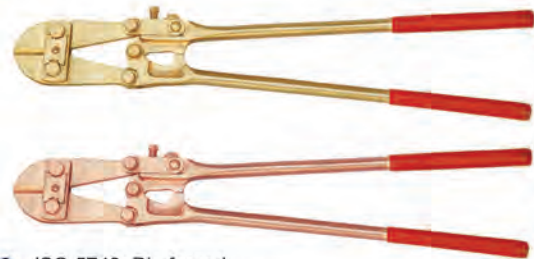


- DIN 5254 Die forged
- Install and remove snap rings.



Number	Size inch	L mm	Be-Cu g	Al-Cu g
256-1002	8	200	290	265
256-1004	10	250	415	380

**No.257A Bolt Chipper**



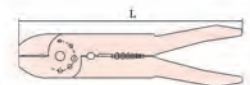
- ISO 5749 Die forged
- Used for cutting chains, padlocks, bolts and wire mesh. It typically has long handles and short blades, with compound hinges to maximize leverage and cutting

Number	L mm	D mm	Be-Cu g	Al-Cu g
257A-1002	600	6	3350	3070
257A-1004	900	8	9250	8400
257A-1006	250	3	560	500
257A-1008	350	4	1730	1500
257A-1010	450	5	2650	2300

**No.257B Crimping Tool, Insulated Cable Connectors**



- Q/ZBF-257B Die forged
- Easily strips and cuts solide or stranded wire.

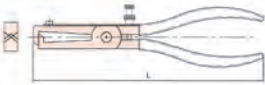


Number	Size inch	L mm	Be-Cu g	Al-Cu g
257B-1002	8	200	225	205

**No.257C Wire Stripping Pliers**



- QB/T 2207 Die forged
- Remove insulation without damaging the conductor.



Number	L mm	Be-Cu g	Al-Cu g
257C-1002	170	225	205

**No.257F Stocker Plier**



- Q/ZBF-257F Die forged
- Easily strips and cuts solide wire.

Number	Size inch	L mm	Be-Cu g	Al-Cu g
257F-1002	7	180	220	200

**No.257D Locking Pliers**



- QB/T 2207 Die forged
- Single-handed operation with quick-release lever, adjusting screw and integrated wire cutter.

Number	Size	L mm	D mm	Be-Cu g	Al-Cu g
257D-1002	10	225	40	480	455

**No.258 Tweezers, Neat Tips**



- Q/ZBF-258 Die forged
- Pick up small objects like metal particles.



Number	L mm	Al-Cu g	Be-Cu g
258-1002	150	30	25
258-1004	200	50	40

**No.257E Wire Stripper**



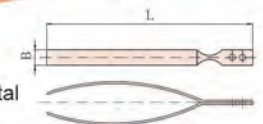
- Q/ZBF-257E Die forged
- Especially apply to cut wires, electronic parts, plastic products, metal wire, etc. Used for repair of electronic industry, model making etc.

Number	Size inch	L mm	Al-Cu g	Be-Cu g
257E-1002	6	160	125	110

**No.258A Tweezers, Flat Nose**



- Q/ZBF-258A Die forged
- Pick up small objects like metal particles.



Number	L mm	B mm	Al-Cu g	Be-Cu g
258A-1002	100	8	30	25
258A-1004	200	15	65	55



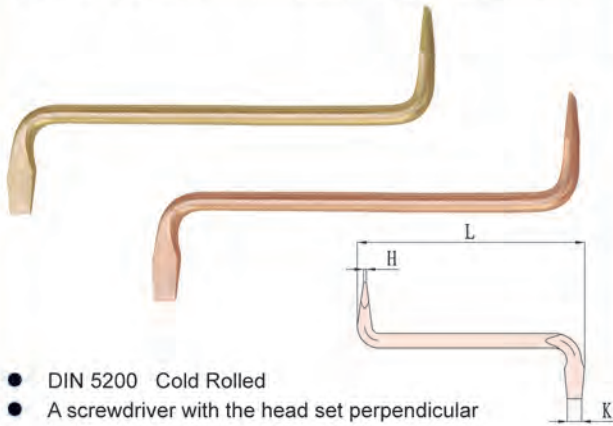
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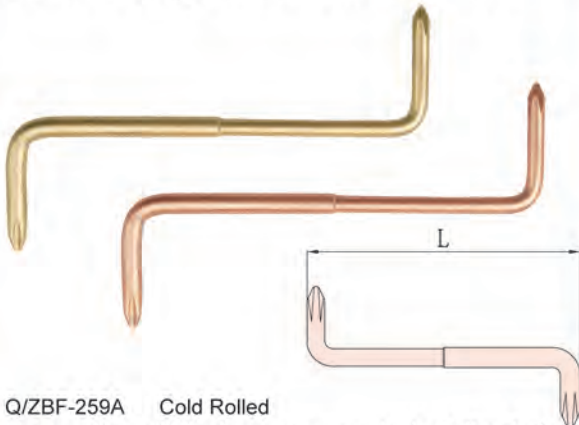
## No.259 Slotted Offset Screwdriver



- DIN 5200 Cold Rolled
- A screwdriver with the head set perpendicular to the shaft for access to screws in otherwise awkward places.

Number	L mm	H mm	K mm	Be-Cu g	Al-Cu g
259-1002	72	1	6	25	23
259-1004	125	1.2	8	55	50
259-1006	196	1.6	10	135	124

## No.259A Phillips Offset Screwdriver

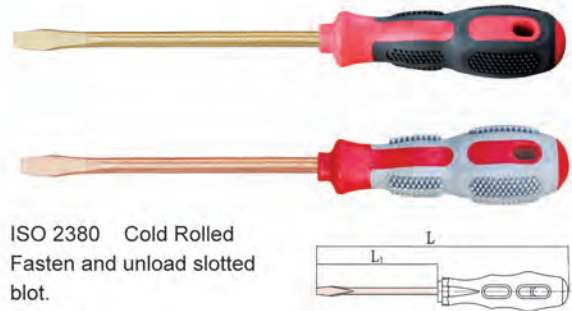


- Q/ZBF-259A Cold Rolled
- A screwdriver with the head set perpendicular to the shaft for access to screws in otherwise awkward places.

Number	L mm	size	Be-Cu g	Al-Cu g
259A-1002	120	1#*2#	50	45



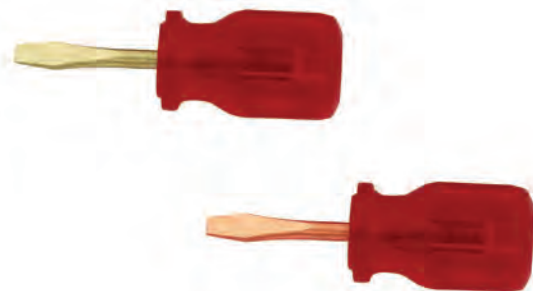
## No.260 Slotted Screwdriver



- ISO 2380 Cold Rolled
- Fasten and unload slotted blot.

Number	L <sub>1</sub> mm	L mm	B mm	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
260-1002	50	134	3	35	33	20	0.85	0.80
260-1004	50	134	4.5	43	40	20	0.94	0.88
260-1006	75	159	3	35	32	20	0.94	0.90
260-1008	75	159	4	45	42	20	1.05	1.00
260-1010	75	180	5	70	65	20	1.20	1.14
260-1012	100	184	4	45	42	20	1.65	1.62
260-1014	100	205	5	75	70	20	1.83	1.78
260-1016	100	215	6	85	80	20	2.05	1.98
260-1018	125	240	6	100	95	20	2.33	2.24
260-1020	150	265	6	110	105	20	2.60	2.50
260-1022	150	265	7	125	120	20	2.94	2.81
260-1024	150	277	8	140	135	20	3.33	3.17
260-1026	200	327	8	165	155	20	4.10	3.95
260-1028	250	377	9	185	175	20	4.70	4.55
260-1030	250	377	11	260	245	20	6.10	5.82
260-1032	300	427	10	245	230	20	6.10	5.80
260-1034	300	427	11	290	275	20	6.57	6.29
260-1036	350	477	11	320	300	20	8.26	7.60
260-1038	400	550	12	450	430	20	10.3	9.45
260-1040	450	600	13	485	450	/	/	/

## No.260A Stubby Slotted Screwdriver



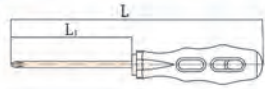
Number	B mm	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
260A-1002	3	36	83	45	40
260A-1004	4	36	83	50	43
260A-1006	5	36	83	50	45
260A-1008	6	36	83	55	50



## No.261 Phillips Screwdriver

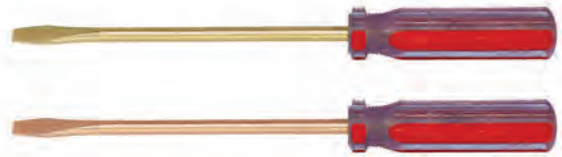


- ISO 8764 Cold Rolled
- Fasten and unload phillips bolts(screw nail).

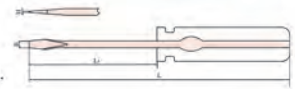


Number	L <sub>1</sub> mm	L mm	size	Be-Cu g	Al-Cu g	Q'ty Carton	Be-Cu Gw kg	Al-Cu Gw kg
261-1002	50	134	0	35	32	20	0.85	0.80
261-1004	75	159	1	70	63	20	1.05	1.00
261-1006	100	205	1	75	70	20	1.83	1.78
261-1008	125	240	2	100	95	20	2.33	2.24
261-1010	150	265	2	110	105	20	2.60	2.50
261-1012	200	327	3	165	155	20	4.10	3.95
261-1014	250	377	3	185	170	20	4.70	4.55
261-1016	300	427	4	245	230	20	6.10	5.80
261-1018	350	477	4	270	255	20	7.26	6.60
261-1020	400	550	4	295	280	20	7.95	7.32
261-1022	450	600	4	320	300	20	8.48	7.80

## No.263 Slotted Screwdriver



- Q/ZBF-263 Cold Rolled
- Fasten and unload slotted bolt, the handle can be striken.



Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
263-1002	2	50	108	0.5	3	35	32
263-1004	3	75	133	0.6	3	48	44
263-1006	3	75	153	0.8	4	50	45
263-1008	3	75	153	1.0	5	51	46
263-1010	4	100	178	0.8	4	60	55
263-1012	4	100	178	1.0	5	71	65
263-1014	4	100	193	1.1	6	77	70
263-1016	6	150	243	1.2	7	115	105
263-1018	8	200	305	1.2	8	197	180
263-1020	10	250	355	1.6	9	221	202
263-1022	12	300	420	1.6	10	304	278
263-1024	14	350	470	1.8	11	365	335

## No.261A Stubby Phillips Screwdriver

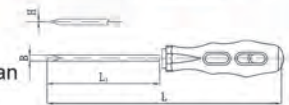


Number	Size	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
261A-1002	1	36	83	45	40
261A-1004	1	36	83	50	45
261A-1006	2	36	83	55	50

## No.263A Electrician Screwdriver



- Q/ZBF-263A Cold Rolled
- Fasten and unload electrician slotted bolt

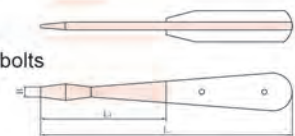


Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
263A-1002	2	50	134	0.4	3	37	35
263A-1004	4	100	184	0.6	4	47	45
263A-1006	4	100	215	0.8	6	95	90
263A-1008	6	150	277	1.0	8	145	135
263A-1010	8	200	327	1.3	10	230	210

## No.262 Screwdriver

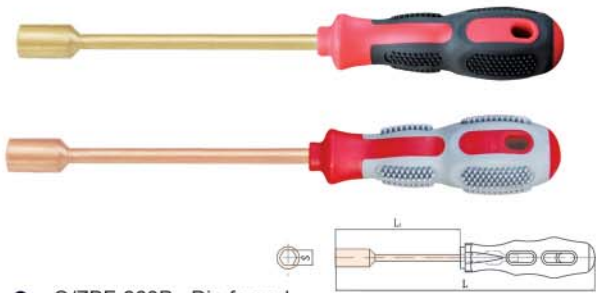


- Q/ZBF-262 Die forged
- Fasten and unload slotted bolts (screw nail).



Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
262-1002	200	100	8	135	125
262-1004	250	110	8	220	204
262-1006	300	160	10	305	275
262-1008	500	350	11	505	461

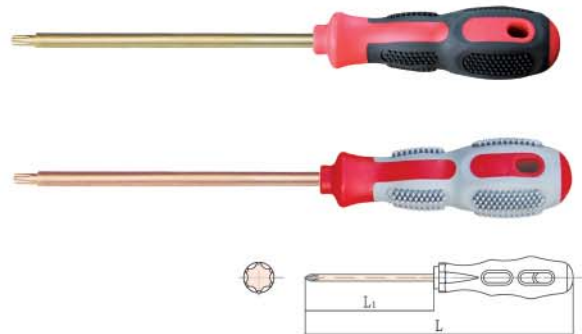
## No.263B Driver Hex Nut



- Q/ZBF-263B Die forged
- Fasten and unload Hex blot.Hex nut in the narrow place that hand can not touch.

Number	L <sub>1</sub> mm	L mm	S mm	Be-Cu g	Al-Cu g
263B-1001	90	205	1/4"	85	81
263B-1002	90	205	6	85	81
263B-1004	100	215	8	100	85
263B-1006	110	225	10	140	130
263B-1008	110	237	13	185	172
263B-1010	120	247	16	220	205
263B-1012	120	247	17	230	218

## No.264A Torx Screwdriver



- ISO 8764 Cold Rolled
- Fasten and unload torx bolt.

Number	size	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
264A-1002	T10*75	75	180	70	63
264A-1004	T15*75	75	180	70	63
264A-1006	T20*100	100	215	100	95
264A-1008	T25*125	125	240	105	100
264A-1010	T30*150	150	265	110	100
264A-1012	T40*200	200	327	165	155
264A-1014	T45*250	250	377	185	175
264A-1016	T50*300	300	427	205	195
264A-1018	T55*350	350	500	245	225
264A-1020	T60*400	400	550	280	255

## No.264 Pozidriv Screwdriver



- GB/T 5358 Cold Rolled
- Fasten and unload Pozidriv bolt.

Number	L <sub>1</sub> inch	Size	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
264-1002	2	0	50	134	35	33
264-1004	3	1	75	159	45	42
264-1006	4	2	100	215	85	80
264-1008	6	3	150	277	145	135
264-1010	8	4	200	327	230	210





**No.264B Screwdriver Bits**



- Cold Rolled
- Hand operation on impact tools or electric tools.

Number	size
264B-⓪	4.5mm, 6.5mm, 8mm
264B-⊕	1#, 2#, 3#, 4#
264B-⊗	1#, 2#, 3#, 4#
264B-●	3mm, 4mm, 5mm, 6mm, 7mm, 10mm
264B-⊛	T10, T15, T20, T25, T27, T30, T40

**No.264C Manual Impact screwdriver set**



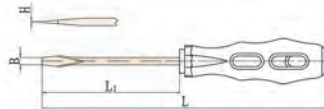
- Cold Rolled
- Strong and durable, plastic case for convenient storage.

Number	size	PCS	Be-Cu g	Al-Cu g
264C-⓪	8*72	2	825	750
264C-⊕	PH3*72	2		
264C-⓪	8*36	1		
264C-⊕	PH3*36	1		

**No.265 Slotted Screwdriver**



- ISO 2380 Cold Rolled
- Fasten and unload slotted bolt.

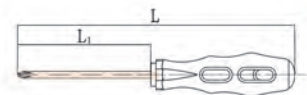


Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
265-1002	2	50	150	0.5	3	35	33
265-1004	2	50	150	1.0	4.5	43	40
265-1006	3	75	175	0.6	3	35	32
265-1008	3	75	175	0.8	4	45	42
265-1010	3	75	175	1.0	5	70	65
265-1012	4	100	200	0.8	4	45	42
265-1014	4	100	200	1.0	5	75	70
265-1016	4	100	200	1.1	6	85	80
265-1018	5	125	225	1.1	6	100	95
265-1020	6	150	250	1.1	6	110	105
265-1022	6	150	250	1.2	7	125	120
265-1024	6	150	250	1.2	8	140	135
265-1026	8	200	320	1.2	8	165	155
265-1028	10	250	370	1.6	9	185	175
265-1030	10	250	400	1.8	11	260	245
265-1032	12	300	450	1.6	10	245	230
265-1034	12	300	450	1.8	11	290	275
265-1036	14	350	500	1.8	11	320	300
265-1038	16	400	550	2.0	12	450	430
265-1040	18	450	600	2.2	13	470	450

**No.266 Phillips Screwdriver**



- ISO 8764 Cold Rolled
- Fasten and unload phillips bolts(screw nail).



Number	L <sub>1</sub> inch	size	L <sub>1</sub> mm	L mm	Φ mm	Be-Cu g	Al-Cu g
266-1002	2	0	50	150	3	35	32
266-1004	3	1	75	175	4	70	63
266-1006	4	1	100	200	5	75	70
266-1008	5	2	125	225	6	100	95
266-1010	6	2	150	250	6	110	105
266-1012	8	3	200	320	8	165	155
266-1014	10	3	250	370	8	185	170
266-1016	12	4	300	450	9	245	230
266-1018	14	4	350	500	9	270	255
266-1020	16	4	400	550	9	295	280
266-1022	18	4	450	600	9	320	300



CNFB®

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NATIONAL PATENT  
No. ZL200310109687.4

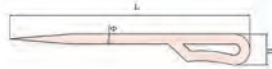




**No.267 Marking Tool**

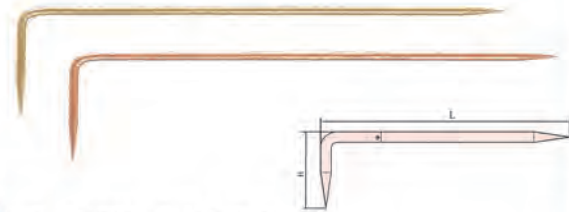


- Q/ZBF-267 Die forged
- Punch hole on the rubber plate, carton plate etc.

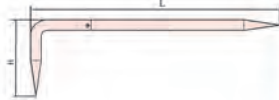


Number	L mm	H mm	Φ mm	Be-Cu g	Al-Cu g
267-1002	400	40	12	502	445
267-1004	600	50	16	1152	1036

**No.268 Marking Tool**



- Q/ZBF-268 Cold Rolled
- Mark hole on the plastic plate, carton plate to be location.

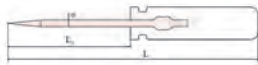


Number	L mm	H mm	Φ mm	Be-Cu g	Al-Cu g
268-1002	187	32	4	15	10
268-1004	252	42	4	20	15

**No.269 Awl**



- Q/ZBF-269 Cold Rolled
- Mark hole on the plastic plate, carton plate etc to be location.



Number	L <sub>1</sub> mm	Φ mm	L mm	Be-Cu g	Al-Cu g
269-1002	100	3	184	50	45

**No.269A Dividers**



- JB/T 3411.54 Die forged
- Used for drawing circles, measuring distances or chart etc.



Number	D <sub>max</sub> mm	H mm	Be-Cu g	Al-Cu g
269A-1002	200	200	170	150
269A-1004	400	400	400	360

**No.270 Hacksaw Frame**



- QB/T 1108 Precision Casting
- Installed hacksaw blade, cut rubber plastic, aluminium pipe etc.



Number	L mm	D mm	H mm	Be-Cu g	Al-Cu g
270-1002	500	300	110	645	590

**No.270A Hacksaw Frame**



- QB/T 1108 Precision Casting
- Installed hacksaw blade, cut rubber plastic, aluminium pipe etc.

Number	L mm	D mm	H mm	Be-Cu g	Al-Cu g
270A-1002	470	300	90	720	650

**No.271 Hacksaw Blade**



- QB/T 14764 Cold Rolled
- Installed on hacksaw frame, cut rubber, plastic, aluminium pipe etc.

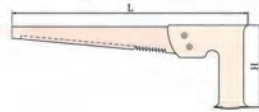


Number	L mm	B mm	Be-Cu g
271-1002	300	12	32

**No.272 Hand Saw**



- QB/T 2094.5 Cold Rolled
- Sawing the narrow hole and small parts.



Number	L mm	H mm	Be-Cu g	Al-Cu g
272-1002	370	114	125	265

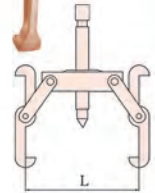
**No.272A Hand Saw**



- QB/T 2094.6 Cold Rolled
- Sawing expensive wood and soft material.

Number	L mm	B mm	Be-Cu g	Al-Cu g
272A-1002	700	35	555	520

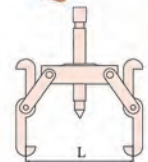
**No.273 3 Leg Gear Puller**



- JB/T 3411.51 Die forged
- Unload bearing, gear, connector, change belt wheel etc.

Number	L <sub>max</sub> mm	Be-Cu g	Al-Cu g
273-1002	100	1350	1200
273-1004	150	2800	2500
273-1006	200	5720	5200
273-1008	350	10650	9700
273-1010	250	7000	6300

**No.273A 2 Leg Gear Puller**



- JB/T 3411.50 Die forged
- Unload non-circular machine parts instead of 3 leg gear puller.

Number	L <sub>max</sub> mm	Be-Cu g	Al-Cu g
273A-1002	100	1250	1100
273A-1004	150	2450	2200
273A-1006	200	5130	4640
273A-1008	350	9600	8800





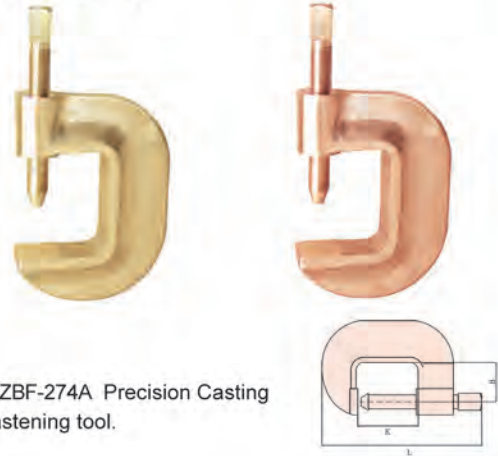
## No.273B Hydraulic Gear Puller



- Q/ZBF-273B Die forged
- Widely used to remove the disc, gears, bearings, pulley, etc. Saving energy, prevent slippery, not by space limit

Number	Safe load T	Φ mm	Be-Cu g	Al-Cu g
273B-5	5	200	8000	7500
273B-10	10	250	12000	11000
273B-20	20	350	20600	19000

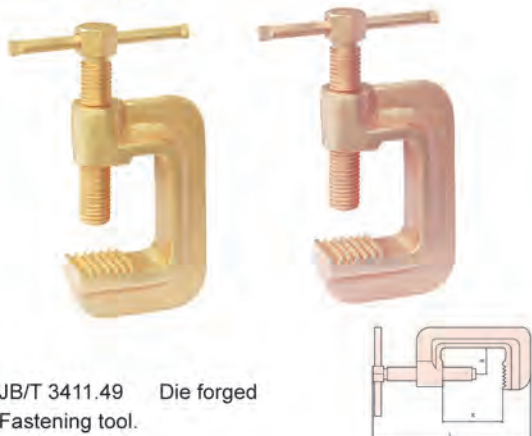
## No.274A Clamp



- Q/ZBF-274A Precision Casting
- Fastening tool.

Number	L mm	K mm	B mm	Be-Cu g	Al-Cu g
274A-1002	76	19	19	200	180
274A-1004	290	115	75	5600	5000
274A-1006	370	165	90	11100	10000

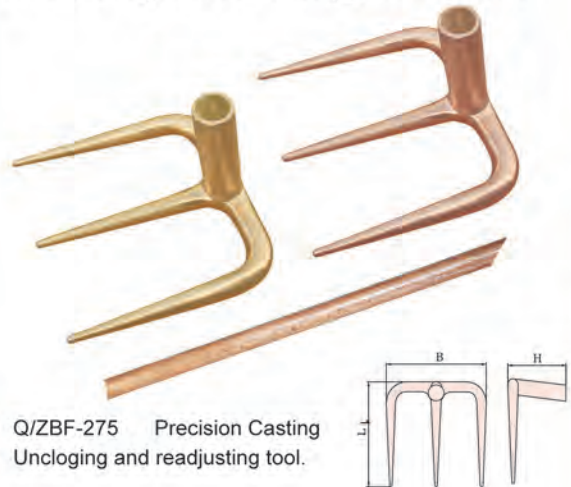
## No.274 Clamp



- JB/T 3411.49 Die forged
- Fastening tool.

Number	L mm	K mm	B mm	Be-Cu g	Al-Cu g
274-1002	210	60	36	1200	1080
274-1004	250	80	36	1400	1270
274-1006	290	100	36	1610	1460
274-1008	340	150	50	2155	1970

## No.275 Fork, Three Prong, with handle



- Q/ZBF-275 Precision Casting
- Unclogging and readjusting tool.

Number	L mm	L <sub>1</sub> mm	B mm	H mm	Be-Cu g	Al-Cu g
275-1002	900	185	200	125	2300	2150

## No.276 Fork, Four Prong, with handle



- Q/ZBF-276 Precision Casting
- Unclogging and readjusting tool.

Number	L mm	L <sub>1</sub> mm	B mm	Be-Cu g	Al-Cu g
276-1002	1100	327	200	2750	2570

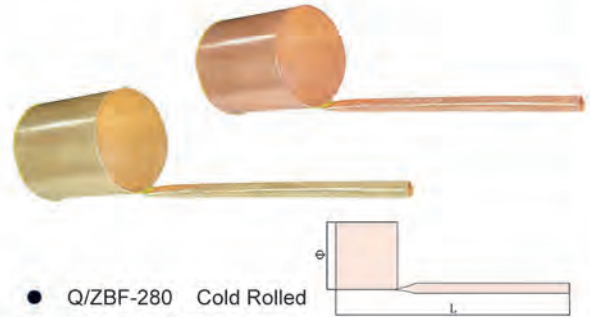
## No.277 Cleaning Rust Rake



- Q/ZBF-277 Precision Casting
- Unclogging and readjusting tool.

Number	L mm	H mm	B mm	Be-Cu g	Al-Cu g
277-1002	350	105	98	1050	950

## No.280 Oil Dipper



- Q/ZBF-280 Cold Rolled
- Dip up the liquids.
- Material: Be-Cu Brass Copper

Number	Size ml	Φ mm	L mm	g
280-1002	480	85	350	163

## No.278 Oil Funnel



- Q/ZBF-278 Cold Rolled
- Channel liquids to the vessel with small mouth.
- Material: Be-Cu Brass Copper

Number	Φ mm	H mm	g
278-1002	160	130	260
278-1004	160	150	280

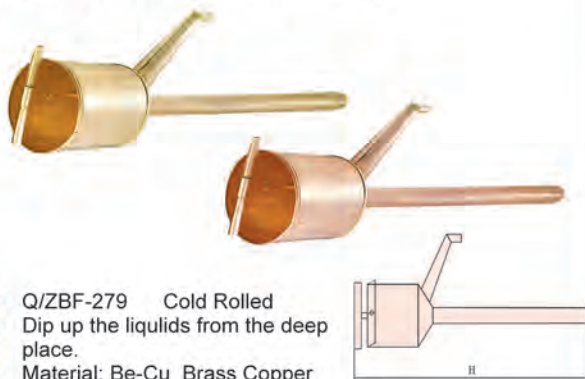
## No.280A Bucket



- Q/ZBF-280A Cold Rolled
- Store liquids
- Material: Brass Copper

Number	Size L	H mm	g
280A-1002	10	300	1680

## No.279 Portable Oil Pump



- Q/ZBF-279 Cold Rolled
- Dip up the liquids from the deep place.
- Material: Be-Cu Brass Copper

Number	Φ mm	H mm	g
279-1002	165	1100	2315

## No.280B Bucket



- Q/ZBF-280A Cold Rolled
- Widely used in pharmaceutical, chemical, oil, coal and other potential explosive environment, long nose design convenient refueling equipment or container of small mouth.
- Material: Brass Copper

Number	Size L	H mm	g
280B-1002	10	325	1700



**No.280C Hand Cadger**



- Q/ZBF-280C Cold Rolled
- Widely used in pharmaceutical, chemical, oil, coal and other potential explosive environment, long nose design easy to use, for equipment maintenance.
- Material: Brass Copper

Number	Size L	H mm	⚖ g
280C-1002	2	100	800

**No.281A Bucket**



- Q/ZBF-281A Cold Rolled
- Store liquids.
- Material: Be-Cu Brass Copper

Number	Size L	H mm	⚖ g
281A-1002	15	280	2000

**No.280D Bottom Deposit Sampler**



- Q/ZBF-280D Cold Rolled
- In oil refinery, oil tank, oil depot, the collection of the sample at the bottom of container.

Number	Size ml	⚖ g
280D-1002	500	1200

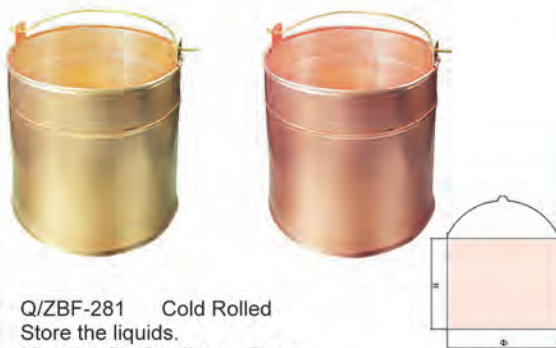
**No.281B Bucket**



- Q/ZBF-281B Cold Rolled
- Store liquids, mostly used for fire-fighting.
- Material: Be-Cu Brass Copper

Number	Size L	H mm	⚖ g
281B-1002	10	250	1200
281B-1004	15	280	1550

**No.281 Bucket**



- Q/ZBF-281 Cold Rolled
- Store the liquids.
- Material: Be-Cu Brass Copper

Number	Size L	Φ mm	H mm	⚖ g
281-1002	14	270	248	1515

**No.282 Dustpan**



- Q/ZBF-282 Cold Rolled
- Gather granular thing and trash.
- Material: Be-Cu Brass Copper

Number	L mm	B mm	H mm	⚖ g
282-1002	150	130	20	130
282-1004	200	200	50	335
282-1006	270	250	50	635

## No.282A Dustpan



- Q/ZBF-282A Cold Rolled
- Gather granular thing and trash.
- Material: Be-Cu Brass Copper

Number	L mm	B mm	H mm	⚖ g
282A-1002	150	130	20	130
282A-1004	200	200	50	335
282A-1006	270	250	50	635

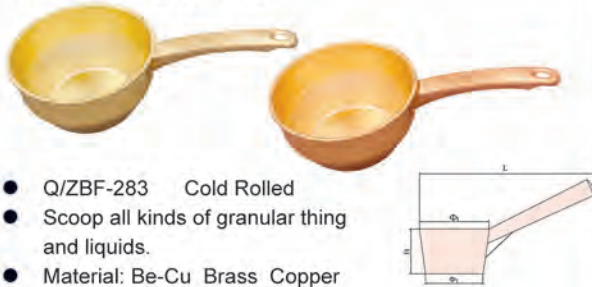
## No.283B Scoop



- Q/ZBF-283B Cold Rolled
- Scoop all kinds of granular things and liquids.

Number	Φ mm	L mm	Be-Cu g	Al-Cu g
283B-1002	112	500	1220	1100

## No.283 Scoop, Sugar



- Q/ZBF-283 Cold Rolled
- Scoop all kinds of granular thing and liquids.
- Material: Be-Cu Brass Copper

Number	Size L	L mm	H mm	Φ <sub>1</sub> mm	Φ <sub>2</sub> mm	⚖ g
283-1002	1.5	350	90	160	135	580

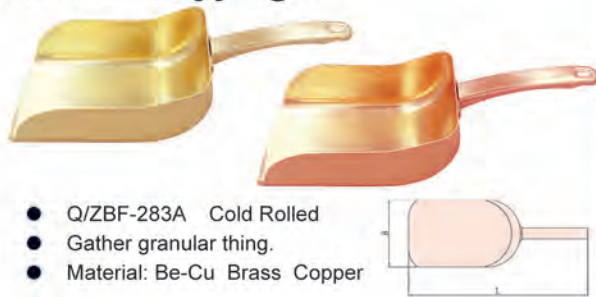
## No.283C Strainer



- Q/ZBF-283C Cold Rolled
- Take something from the liquids.
- Material: Brass Copper

Number	Φ mm	L mm	⚖ g
283C-1002	300	600	1800

## No.283A Scoop, Sugar



- Q/ZBF-283A Cold Rolled
- Gather granular thing.
- Material: Be-Cu Brass Copper

Number	B mm	L mm	⚖ g
283A-1002	75	200	200
283A-1004	140	360	645

## No.283D Basin



- Q/ZBF-283C Cold Rolled
- Containing articles.
- Material: Brass Copper

Number	D mm	H mm	⚖ g
283D-1002	400	150	1250

## No.283E Scoop, Sugar



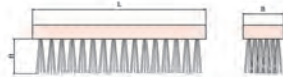
Number	B mm	L mm	⚖ g
283E-1002	85	300	200
283E-1004	110	300	230



## No.284 Brush, Flat Back, Scratch



- Q/ZBF-284 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass



Number	L*B mm	Rows	H mm	g
284-1002	205*48	6*16	41	260

## No.285A Brush



- Q/ZBF-285A Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

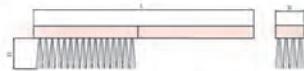


Number	L*B mm	Rows	H mm	g
285A-1002	350*28	4*19	30	150

## No.285 Brush



- Q/ZBF-285 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

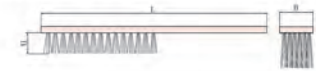


Number	L*B mm	Rows	H mm	g
285-1002	290*29	4*16	28	115

## No.286 Brush



- Q/ZBF-286 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

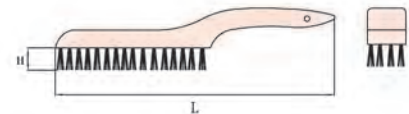


Number	L*B mm	Rows	H mm	g
286-1002	215*29	6*15	15	30

## No.286A Brush, Shoe Handle



- Q/ZBF-286A Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass



Number	L mm	Rows	H mm	g
286A-1002	255	4*16	30	180

## No.286B Brush,spark-plug cleaning



- Q/ZBF-286B Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass



Number	L mm	Rows	H mm	g
286B-1002	196	3*7	13	20

## No.286D Scrubbing Broom,round wire



- Q/ZBF-286D Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass



Number	L mm	Rows	H mm	g
286D-1002	210	6*17	40	500

## No.286C Broom, Round Wire



- Q/ZBF-286C Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

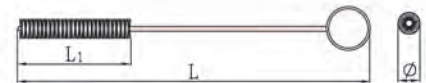


Number	L mm	Rows	H mm	g
286C-1002	310	6*25	55	550

## No.287 Brush, Tube



- Q/ZBF-287 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

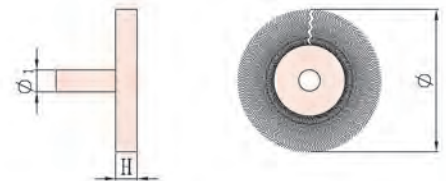


Number	Φ mm	L <sub>1</sub> mm	L mm	g
287-1002	20	100	320	100

## No.288 Brush, Wheel



- Q/ZBF-288 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass



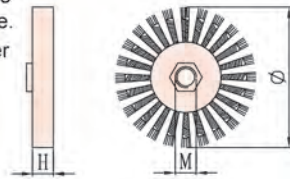
Number	Φ mm	H mm	Φ <sub>1</sub> mm	g
288-1002	75	10	6	140



**No.289 Wheel Brush,knot Wire**



- Q/ZBF-289 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

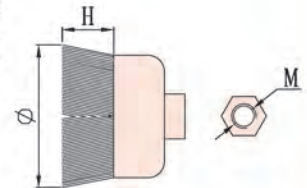


Number	Φ mm	H mm	M mm	⚖ g
289-1002	125	15	14	440

**No.290 Brush,Cup**

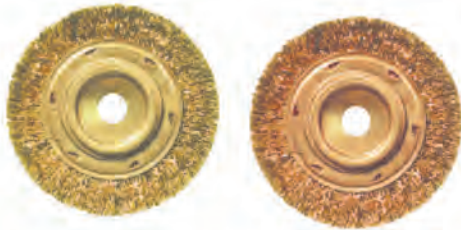


- Q/ZBF-290 Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

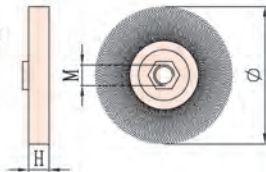


Number	Φ mm	H mm	M mm	⚖ g
290-1002	100	30	14	480

**No.289A Brush,Wheel,Crimped Wire**



- Q/ZBF-289A Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

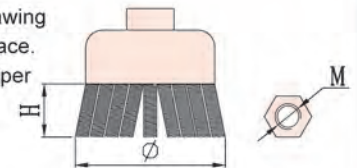


Number	Φ mm	H mm	M mm	⚖ g
289A-1002	125	15	14	320

**No.290A Cup Brush,knot wire**

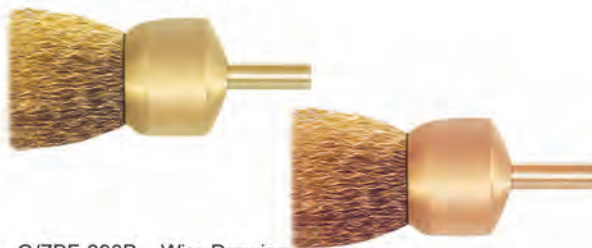


- Q/ZBF-290A Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass

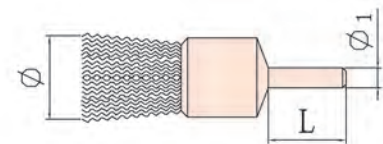


Number	Φ mm	H mm	M mm	⚖ g
290A-1002	100	30	14	580

**No.290B Brush,End**

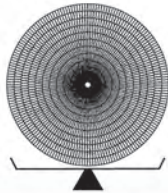


- Q/ZBF-290B Wire Drawing
- Cleaning the metal surface.
- Material: Phosphor Copper Brass



Number	Φ mm	L mm	Φ <sub>1</sub> mm	⚖ g
290B-1002	26	25	6	120

## No.290C Brush, Ball



- Q/ZBF-290C Wire Drawing
- Cleaning the metal surface.



Number	⚖ g
290C-1002	25

## No.291 Hoe with handle



- Q/ZBF-291 Precision Casting
- Excavating soil or run sands and stones.

Number	B mm	H mm	L mm	Be-Cu g	Al-Cu g
291-1002	130	130	860	1850	1750
291-1004	200	200	1050	2080	1970

## No.293 Manual Portable Oil Pump



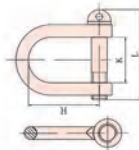
- Q/ZBF-293 Precision Casting
- Drawing all kinds of liquids oil.

Number	L mm	D mm	Be-Cu g	Al-Cu g
293-1002	1350	25	6000	5700

## No.292 Shackle



- Q/ZBF-292 Precision Casting
- Connect wirerope or chain, unload easily.

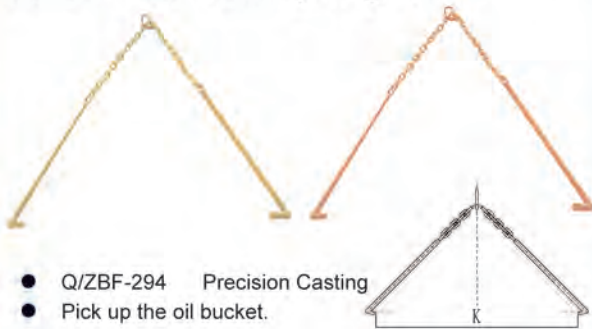


Number	Size T	K mm	H mm	Be-Cu g	Al-Cu g
292-1002	1	30	40	135	130
292-1004	2	33	45	550	500
292-1006	3	37	78	915	830
292-1008	5	45	110	1900	1700
292-1010	10	60	120	4500	4000





**No.294 Barrel Hook, Adjustable**



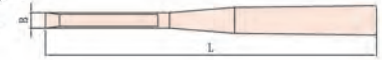
- Q/ZBF-294 Precision Casting
- Pick up the oil bucket.

Number	H kg	K mm	Be-Cu g	Al-Cu g
294-1002	700	1060	3300	3050

**No.297 Chisel**



- QB/T 1201 Die forged
- Woodworking tool.

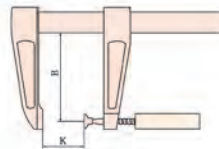


Number	B mm	L mm	Be-Cu g	Al-Cu g
297-1002	14	280	200	180
297-1004	18	320	270	250

**No.295 Screw Clamp**

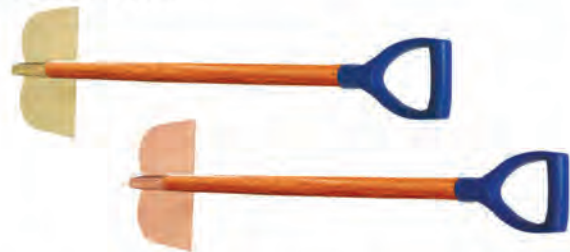


- Q/ZBF-295 Die forged
- Clamping or fixing tools.

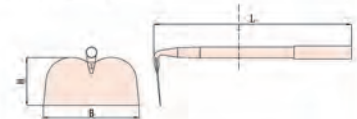


Number	B mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
295-1002	120	400	2395	2200

**No.298 Rake**



- Q/ZBF-298 Precision Casting
- Planishing tools.



Number	B mm	H mm	L mm	Be-Cu g	Al-Cu g
298-1002	300	150	1130	1550	1400

**No.296 Rake**



- Q/ZBF-296 Precision Casting
- Planishing tools.

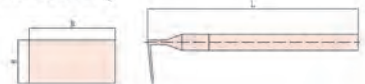


Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
296-1002	1270	350	100	2080	1935
296-1004	1275	450	120	2300	2135

**No.299 Rake**

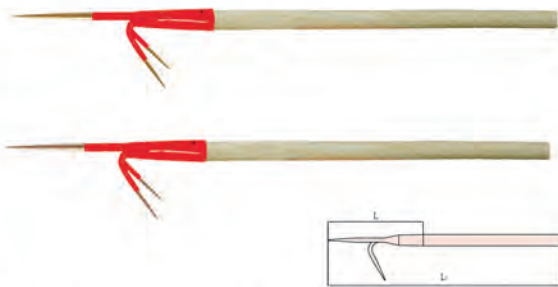


- Q/ZBF-299 Precision Casting
- Planishing tools.



Number	L mm	B mm	H mm	Be-Cu g	Al-Cu g
299-1002	780	160	80	670	600

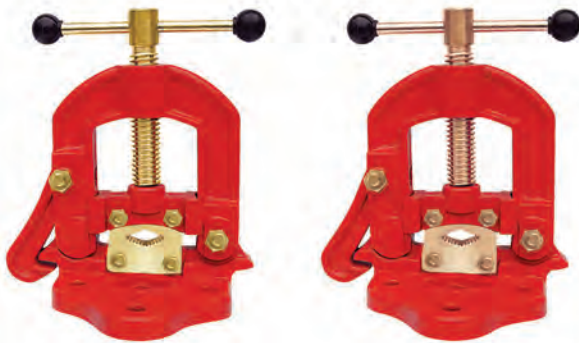
## No.300 Fire Hook



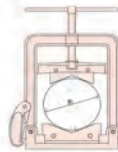
- Q/ZBF-300 Precision Casting
- Fire-fighting tool.

Number	L mm	L <sup>1</sup> mm	Be-Cu g	Al-Cu g
300-1002	270	1215	1365	1300

## No.301 Self Locking Pipe Vice



- QB/T 2211 Precision Casting
- Fixing or Cutting pipe.



Number	D mm	Be-Cu g	Al-Cu g
301-1002	10-60	4870	4425
301-1004	10-90	10350	9420
301-1006	15-115	15300	13900
301-1008	30-220	30600	27800
301-1010	30-300	38000	35000



## No.302 Chain Adjuster



- Q/ZBF-302 Precision Casting
- Suitable for chain rigging when lifting goods, adjust the length of the chain.

Number	S mm	Load T	L mm	Be-Cu g	Al-Cu g
302-1002	6	1.12	73	225	200
302-1004	8	2	100	500	450
302-1006	10	3.15	137	1280	1150

## No.303 Safety Belt



- GB6095-2009
- Electrical installation and maintenance operations, ensure the security of person.

Number	Size	⚖ g
303-1002	Besiege type	1200
303-1004	Shoulders type	1000

## No.304 Tube Bender



- Q/ZBF-304 Precision Casting
- Suitable for manual bend copper tube, aluminum tube etc, maximum bending Angle of 180 degrees.

Number	Size Φ(mm)	Be-Cu g	Al-Cu g
304-1002	6, 8, 10	460	420
304-1004	12	1650	1500
304-1006	14	2000	1800



**No.305 Pipe Cutter**



- QB/T 2350 Precision Casting
- Cutting the pipe.

Number	D inch	D mm	Be-Cu g	Al-Cu g
305-1002	3/8-2	10-50	2210	2010
305-1004	3/8-3	10-75	4070	3700

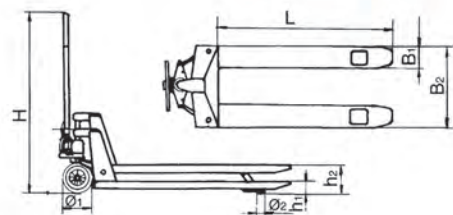
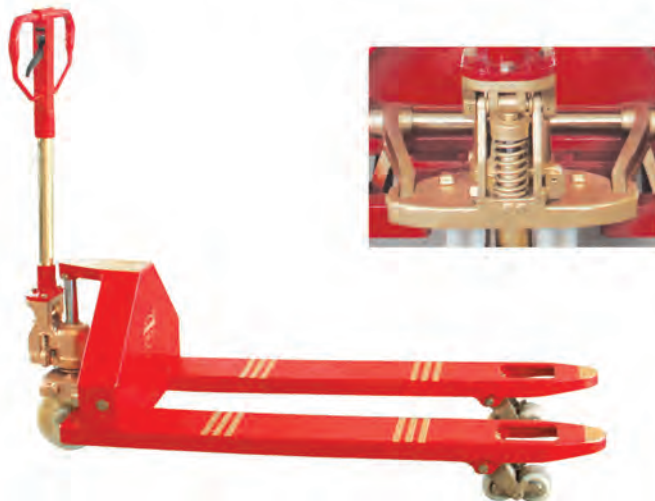
**No.305A Pipe Cutter**



- QB/T 2350 Precision Casting
- Cutting the pipe.

Number	D inch	D mm	Be-Cu g	Al-Cu g
305A-1002	4-6	100-150	12250	11500
305A-1004	8-12	200-300	21000	19000

**No.306 Hydraulic Pallet Truck**



- Q/ZBF-306 Precision Casting
- Carrying and Lifting all kinds of machine etc.

Number	Load(kg)	L(mm)	H(mm)	B <sub>1</sub> (mm)	B <sub>2</sub> (mm)
306-1002	2000	1190	1240	160	545
h <sub>1</sub> (mm)	h <sub>2</sub> (mm)	Φ <sub>1</sub> (inch)	Φ <sub>2</sub> (inch)	Weight(kg)	
90	190	7	3	132	

## No.307 Trolley For Chain Hoist (Pull Type)



- JB/T 7332 Die forged
- Designed to combine with chain hoist to form a lifting machine.
- Moving along the slide-way of the I-Beam, easy to be pulled by hand.

Size: FBGCL

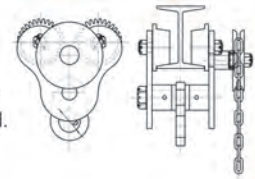
Number	Capacity T	Lifting m	I-Beam Width mm	△△ kg
307-1002	0.5	2.5	68-94	16.5
307-1004	1	2.5	68-100	20
307-1006	2	2.5	94-124	26
307-1008	3	3	116-140	27.5
307-1010	5	3	142-180	34
307-1012	10	3	142-180	68
307-1014	16	3	142-180	170

## No.307B Trolley For Chain Hoist (Pull Type)



National Patent: ZL201120572398.8

- JB/T 7332 Die forged
- Designed to combine with chain hoist to form a lifting machine.
- Moving along the slide-way of the I-Beam, easy to be pulled by hand.



Size: FBGCL

Number	Capacity T	Lifting m	I-Beam Width mm	△△ kg
307B-1002	0.5	2.5	68-94	12.5
307B-1004	1	2.5	68-100	14.5
307B-1006	2	2.5	94-124	22.3
307B-1008	3	3	116-140	24
307B-1010	5	3	142-180	34
307B-1012	10	3	142-180	68
307B-1014	16	3	142-180	170
307B-1016	20	3	142-180	170

## No.307C Chain Hoist With Trolley



- Q/ZBF-307C Die forged
- Used for lifting or lowering heavy loads in a confined space.

Number	Capacity T	I-Beam Width mm	△△ kg
307C-1002	0.5	68-94	21.5
307C-1004	1	68-100	27.5
307C-1006	2	94-124	40
307C-1008	3	116-140	42

## No.307D Chain Hoist With Trolley



- Q/ZBF-307C Die forged
- Used for lifting or lowering heavy loads in a confined space.

Number	Capacity T	I-Beam Width mm	△△ kg
307D-1002	0.5	68-94	25
307D-1004	1	68-100	34.5
307D-1006	2	94-124	48
307D-1008	3	116-140	50



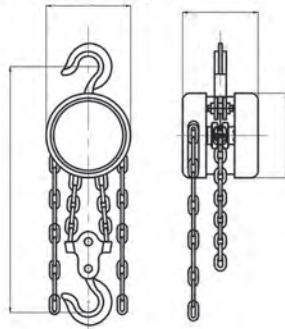
**No.303 Chain Hoist**



National Patent.. ZL200310109687.4



- JB/T 7334 Die forged
- The simple lifting machine, used for lifting or lowering heavy loads.



Size: FBHS

Number	Capacity T	Lifting m	⚖ kg
308-1002	0.5	2.5	10.2
308-1004	1	2.5	13.6
308-1006	2	2.5	22
308-1008	3	3	23.6
308-1010	5	3	36
308-1012	10	3	68.5
308-1014	16	3	187

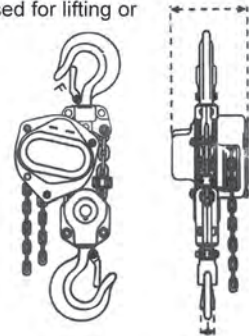
**No.308A Chain Hoist**



National Patent.. ZL201120572396.9



- Q/ZBF-308A Die forged
- The simple lifting machine, used for lifting or lowering heavy loads.

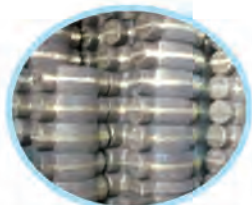


Size: FBHSA

Number	Capacity T	Lifting m	⚖ kg
308A-1002	0.5	2.5	11.4
308A-1004	1	2.5	18.4
308A-1006	2	2.5	27.9
308A-1008	3	3	28.3
308A-1010	5	3	54



Die forged hook blanks



Die forged components blanks



The hooks and components of the Non-sparking chain hoist are die-forged making, high density, durable and strong. We can successfully avoid the defects like pores, sand holes and shrinkage cavity by adopting the advanced technology.



## No.308B Ratchet lever Hoist



- Q/ZBF-308B Die forged
- The ratchet lever hoist is a versatile tool used in a wide variety of applications, both in industry and in the private sector. Its versatility allows it to be used in confined spaces, and also allows for heavy loads to be maneuvered and positioned safely and efficiently.

Number	Capacity T	Lifting m	⚖ kg
308B-1002	0.75	1.5	7.7
308B-1004	1.5	1.5	11.8
308B-1006	3	1.5	21
308B-1008	6	1.5	32
308B-1010	9	1.5	47

## No.308C Come Along



- Q/ZBF-308C Die forged
- Used to strain wires in overhead line construction.

Number	Size T	⚖ kg
308C-1002	1	3
308C-1004	2	4.5
308C-1006	3	6.3
308C-1008	4	7.8

## No.309 Torque Wrench



- GB/T 15729 Die forged
- Used to precisely apply a specific torque to fasteners like bolts and nuts.

Number	C inch	Torque N.m	L mm	Be-Cu g	Al-Cu g
309-1002	3/8	100	310	600	540
309-1004	1/2	260	490	1340	1210
309-1006	3/4	450	560	2050	1930

## No.309A Lock Torque Wrench-Window Display



- GB/T 15729 Die forged
- Used to precisely apply a specific torque to fasteners like bolts and nuts. plastic handle, humanization design, comfortable hand

Number	C inch	Torque N.m	L mm	Be-Cu g	Al-Cu g
309A-1000	1/4	5-25	290	850	800
309A-1002	3/8	5-50	360	980	920
309A-1004	1/2	10-100	405	1100	1020
309A-1006	1/2	20-200	500	1320	1200
309A-1008	1/2	60-260	595	1500	1330
309A-1010	3/4	150-670	1040	5700	4930
309A-1012	1	200-900	1253	10000	8500





## No.309B Rectangular Reversible ratchet head



- Q/ZBF-309B Die forged
- Matched with torque wrench, used to perform protection when tighten or loosen special bolts and nuts.

Number	H*B mm	C inch	L mm	Be-Cu g	Al-Cu g
309B-1002	9*12	3/8	50	165	150
309B-1004	14*18	1/2	78	445	400

## No.310 Flange Prop



- Q/ZBF-310 Die forged
- Unloading or welding the flange.

Number	Size mm	Be-Cu g	Al-Cu g
310-1002	FZM16-24	7300	6600
310-1004	FZM27-36	9900	9000



## No.311 Parallel Vice



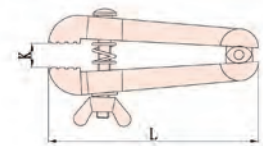
- QB/T 1588.2 Precision Casting
- Bench tool, clamping the parts.

Number	B mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
311-1002	90	90	8150	7400
311-1004	125	125	14000	12500
311-1006	150	150	17500	15000
311-1008	170	170	18000	15400

## No.311A Hand Vise

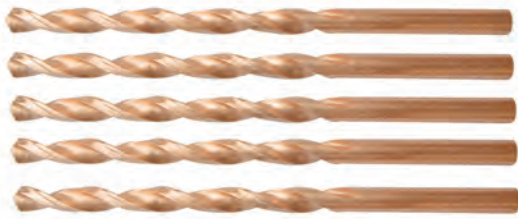


- Q/ZBF-311A Precision Casting
- Clamping the small parts.



Number	K mm	L mm	Be-Cu g	Al-Cu g
311A-50	50	165	915	830

**No.312 Drill Bit**



- Q/ZBF-312 Die forged
- It is a cutting tools used to create cylindrical holes.

Number	Φ mm	L mm	Be-Cu g
312-1002	6	100	20
312-1004	7	120	30
312-1006	8	140	50
312-1008	9	160	75
312-1010	10	180	100
312-1012	11	200	120
312-1014	12	220	170
312-1016	13	240	220
312-1018	14	260	280
312-1020	15	280	360
312-1022	16	300	440
312-1024	17	300	500
312-1026	18	320	600
312-1028	19	320	700
312-1030	20	330	800

**No.313 Releasing Static Device**



- Q/ZBF-313 Die forged
- Applied to eliminate human static in flammable and explosive environment.

Number	L mm	D mm	Be-Cu g	Al-Cu g
313-1002	1150	90	3900	3700

**No.313B Releasing Static Device**



- Q/ZBF-313 Die forged
- Applied to eliminate human static in flammable and explosive environment.

Number	L mm	D mm	Be-Cu g	Al-Cu g
313B-1002	1000	90	2900	2700





**No.314 Screw Jack**



- JB/T 2592 Die forged
- Commonly used for lifting heavy weights.

Number	Model	Capacity T	MIN.H mm	Lifting mm
314-1002	FBQL3.2	3.2	220	110
314-1004	FBQL 5	5	250	130
314-1006	FBQL10	10	280	150
314-1008	FBQL16	16	320	180

**No.315 Packing tool**



- Q/ZBF-315 Die forged
- Tools used for drawing and fitting packing.

Number	Be-Cu g	Al-Cu g
315-1002	900	800

**No.316 Hydraulic Screw Jack**



- Q/ZBF-316 Die forged
- Commonly used for lifting heavy weights.

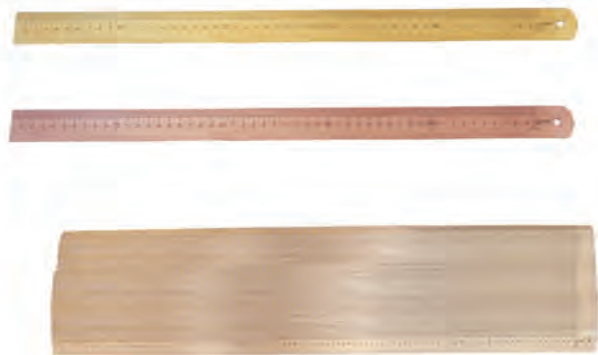
**Hydraulic Cylinder**

Number	Model	Height mm	Lifting mm	⚖ g
316-1002	ZBYG-10B	48	58	1600
316-1004	ZBYG-20B	56	67	2700
316-1006	ZBYG-30B	62	75	4600
316-1008	ZBYG-50B	72	88	7800

**Pumps**

Number	Model	Working Pressure MPa	oil capacity L	⚖ g
316A-1002	ZBB-700C	70	600-350	110

**No.317 Ruler**



- Q/ZBF-317 Cold Rolled
- Used for measurement.

Number	Size mm	Be-Cu g	Al-Cu g
317-1002	500	140	190
317-1004	1000	290	390

**No.318 T Square**



- Q/ZBF-318 Cold Rolled
- Explosion-proof T square, Mostly used for drawing and measure.

Number	Size mm	⚖ g
318-1002	1000	1450

**No.319 Filler Gauge**



- Q/ZBF-319 Cold Rolled
- Consists of a set of thin gauge from 0.05mm to 1.00 mm, for measuring the gap size.

Number	Size mm	⚖ g
319-1002	0.05-1.0mm	70

**No.320 Filler Gauge**



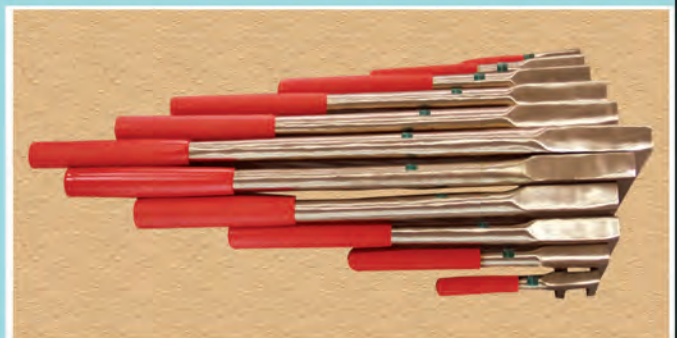
- Q/ZBF-320 Cold Rolled
- Used to test work-piece verticality and the relative position of work-piece verticality etc.

Number	Size mm	Be-Cu g	Al-Cu g
320-1002	150*300	165	145
320-1004	250*500	275	250

**No.321 Filler Gauge (Brass & Chrome Plated)**



Number	Division Value mm	Range mm	⚖ g
321-1002	0.02	0-150	150





**No.322 Plugging Tools set**



Tools	Description
Non-sparking magnetic block	FBCD-300
Non-sparking handle	40*450mm
Non-sparking Screws	M14 2pcs
286A.Brush, Shoe handle	4*16
187.Hammer, Ball Pein	0.45kg
125. Wrench, Adjustable	18*150mm, 36*300mm
146. Wrench, Double Open End	14*17mm, 19*22mm
260. Slotted Screwdriver	5*100mm
261. Phillips Screwdriver	5*100mm
Pb Plumb	9pcs
Copper plate	120*170mm 4pcs
KHT Glue	20*200mm*114g
Tools case	

**No.323 Block Device**



- Die Forged
- Oil drum cover for special purpose

Number	Φ mm	L mm	Be-Cu g	Al-Cu g
323-1002	35	390	1320	1150
323-1004	70	390	3050	2650



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H



PERFESSIONAL TOOL SET FOR OIL STATION,GAS & OIL  
TRANSPORT & REPAIR IN EXPLOSIVE ATMOSPHERE



**No.A Double Open End Wrench Set**



Tools	Description mm
No. A-9	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32
No. A-10	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32
No. A-11	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32
No. A-12	6*7, 8*9, 10*11, 12*13, 14*15, 16*17, 18*19, 20*22, 21*23, 24*26, 25*28, 30*32
No. A-13	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32

**No.C Double Box Offset Wrench Set**



Tools	Description mm
No. C-9	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 30*32
No. C-10	8*10, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32
No. C-11	8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32
No. C-12	6*7, 8*9, 10*11, 12*13, 14*15, 16*17, 18*19, 20*22, 21*23, 24*26, 25*28, 30*32
No. C-13	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32

**No.B Combination Wrench Set**



Tools	Description mm
No. B-9	8, 10, 12, 14, 17, 19, 22, 24, 27
No. B-10	10, 12, 14, 17, 19, 22, 24, 27, 30, 32
No. B-11	8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32
No. B-12	6, 8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32
No. B-13	8, 10, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30, 32

**No.D-15 Drill Bit Set-15pcs**



L\*W\*H: 400\*290\*70mm

Tools	Description
Drill Bit	6*100mm, 7*120mm, 8*140mm, 9*160mm, 10*180mm, 11*200mm, 12*220mm, 13*240mm, 14*260mm, 15*280mm, 16*300mm, 17*300mm, 18*320mm, 19*320mm, 20*330mm

## No.E-9 Tool Set-9pcs



L\*W\*H: 400\*290\*90mm

Tools	Description
125. Wrench, Adjustable	300mm
246. Pliers, Lineman	200mm
252A. Pliers, Groove Joint	250mm
260. Slotted Screwdriver	6*150mm, 8*200mm
261. Phillips Screwdriver	# 2*150mm, # 3*200mm
186. Hammer, Cross Pein Engineers	1kg
203A. Knife, Putty	50mm*200mm

## No.F-15 Tool Set-15pcs



L\*W\*H: 400\*290\*90mm

Tools	Description
146. Wrench, Double Open End	8*10mm, 10*12mm, 12*14mm, 14*17mm, 17*19mm, 19*22mm, 22*24mm, 24*27mm, 30*32mm
125. Wrench, Adjustable	250mm
246. Pliers, Lineman	200mm
254. Pliers, Snipe Nose	200mm
260. Slotted Screwdriver	8*200mm
261. Phillips Screwdriver	# 3*200mm
187. Hammer, Ball Pein	0.91kg

## No.G-16 Tool Set-16pcs



Tools	Description
153A. Wrench, Double Box	8*10, 10*12, 14*17, 19*22mm
125. Wrench, Adjustable	250mm
131. Wrench, Pipe	350mm
252A. Pliers, Water Pump	250mm
245. Pliers, Adjustable, Combination	150mm, 200mm
260. Slotted Screwdriver	150mm
261. Phillips Screwdriver	150mm
185. Hammer, Claw	0.45kg
203A. Knife, Putty	25*200mm
202B. Knife, Common	250mm
207. Scraper, Deck	45*300mm
285. Brush	4*16mm

## No.H-17 Tool Set-17pcs



Tools	Description
130. Wrench, Pipe	350mm
125. Wrench, Adjustable	200mm, 300mm
135. Wrench, Combination	14mm, 17mm, 19mm, 22mm, 24mm, 27mm
246. Pliers, Lineman	200mm
254. Pliers, Long Nose	200mm
245. Pliers, Adjustable Combination	200mm
223D. Punch, Machinists	Φ 18*160mm
231. Chisel, Flat	Φ 18*160mm
260. Slotted Screwdriver	6*150mm
261. Phillips Screwdriver	# 2*150mm
187. Hammer, Ball Pein	0.91Kg



## No.I-26 Tool Set-26pcs



Tools	Description
231. Chisel Flat	18*200mm
125. Wrench, Adjustable	150mm
246. Pliers, Lineman	200mm
245. Pliers, Adjustable Combination	200mm
253. Pliers, Snipe Nose	150mm
261. Phillips Screwdriver	150mm, 200mm
260. Slotted Screwdriver	150mm, 200mm
104. Socket(1/2 " )Dr	8mm, 10mm, 12mm, 14mm, 17mm
117. Sliding T Handle	1/2 " *250mm
192. Hammer, Testing	0.15kg
135. Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm
166. Wrench, Hex Key	4mm, 5mm, 6mm, 8mm, 10mm

## No.J-26 Tool Set-26pcs



L\*W\*H: 650\*400\*140mm

Tools	Description
130. Wrench, Pipe	450mm, 250mm
125. Wrench, Adjustable	375, 300, 200mm, 150mm
187. Hammer, Ball Pein	0.91kg
246. Pliers, Lineman	200mm
254. Pliers, Snipe Nose	200mm
260. Slotted Screwdriver	12*400mm, 8*200mm
261. Phillips Screwdriver	#4*400mm, #3*200mm
174. Valve Handle	500mm
151. Wrench, Double Box	30*27mm, 27*24mm, 24*22mm, 22*19mm, 19*17mm, 17*14mm
146. Wrench, Double Open End	30*32mm, 27*30mm, 24*27mm, 22*24mm, 19*22mm, 17*19mm

## No.K-28 Tool Set-28pcs



Tools	Description
191A. Hammer, Sledge	1.8kg
187. Hammer, Ball Pein	0.91Kg
185. Hammer, Claw	0.45kg
130. Wrench, Pipe	300mm, 450mm
125. Wrench, Adjustable	200mm, 300mm
135. Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm
246. Pliers, Lineman	200mm
254. Pliers, Long Nose	200mm
245. Pliers, Adjustable Combination	200mm
237. Bar, Pinch	Φ 25*300mm
231. Chisel, Flat	Φ 25*300mm
260. Slotted Screwdriver	100mm, 200mm
261. Phillips Screwdriver	100mm, 200mm
174. Valve Handle	400mm

## No.L-36 Tool Set-36pcs



L\*W\*H: 650\*450\*140mm

Tools	Description
191A. Hammer, Sledge	1.8kg
187. Hammer, Ball Pein	0.91kg
130. Wrench, Pipe	450mm
125. Wrench, Adjustable	150mm, 200mm
135. Wrench, Combination	10mm, 8mm
246. Pliers, Lineman	200mm, 150mm
253. Pliers, Snipe Nose	150mm
245. Pliers, Adjustable, Combination	200mm
255. Pliers, Round Nose	150mm
250. Pliers, Flat Nose	150mm
248. Pliers, Diagonal Cutting	150mm
260. Slotted Screwdriver	4*75, 5*100, 6*150, 8*200mm
261. Phillips Screwdriver	#1*75, #1*100, #2*150, #3*200mm
259. Slotted Offset Screwdriver	6*72, 8*125, 10*196mm
233. Chisel 8 Point	16*160mm
242. Shears, Cutting	150mm
202B. Knife, Common	250mm
203A. Knife, Putty	50*200mm
258. Tweezers, Neat Tips	200mm
237. Bar	19*500mm
268. Marking Tool	252mm
240. Bar, Wrecking	400mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
284. Brush, Flat Back, Scratch	6*16mm

**No.M-40 Tool Set-40pcs**



L\*W\*H: 570\*370\*210mm

Tools	Description
191A. Hammer, Sledge	1kg
185. Hammer, Claw	0.23kg
187. Hammer, Ball Pein	0.45kg
130. Wrench, Pipe	200mm
125. Wrench, Adjustable	150mm, 250mm
246. Pliers, Lineman	150mm
253. Pliers, Snipe Nose	150mm
248. Pliers, Flat Nose	150mm
250. Pliers, Diagonal Cutting	150mm
245. Pliers, Adjustable, Combination	150mm
249. Pincers	200mm
242. Shears, Cutting	150mm
260. Slotted Screwdriver	4*75mm, 5*100mm, 6*150mm
261. Phillips Screwdriver	# 1*75mm, # 1*100mm, # 2*150mm,
259. Slotted Offset Screwdriver	6*72mm, 8*125mm, 10*196mm
166. Wrench, Hex Key	3mm, 4mm, 5mm, 6mm, 7mm, 8mm
232. Chisel, 6 Point	16*160mm
239. Bar, Wrecking	250mm
202B. Knife, Common	250mm
203A. Knife, Putty	25*200mm
258. Tweezers, Neat Tips	150mm
221. File, Triangle	200mm
238. Hearing Needle	6*250mm
268. Marking Tool	250mm
272. Hand Saw	370mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
284. Brush	6*16mm

**No.N-56 Tool Set-56pcs**



L\*W\*H: 650\*450\*150mm

Tools	Description
146. Wrench, Double Open End	5.5*7, 6*7, 8*10, 9*11, 10*12, 12*14, 14*17, 17*19, 19*22, 22*24, 24*27, 27*30, 30*32mm
166. Wrench, Hex Key	2mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 10mm
260. Slotted Screwdriver	3*50mm, 4*75mm, 5*100mm, 6*150mm
261. Phillips Screwdriver	#0*50mm, #1*75mm, #1*100mm, #2*150mm
125. Wrench, Adjustable	250mm
258. Tweezers, Neat Tips	150mm
246. Pliers, Lineman	150mm
253. Pliers, Snipe Nose	150mm
252. Pliers, Groove Joint	250mm
309. Torque Wrench	1/4" , 3/8"
102. 1/4" Socket	4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm
103. 3/8" Socket	10mm, 11mm, 12mm, 13mm, 14mm, 17mm, 19mm
124. Driver Type Handle	1/4"
119. Ratchet Wrench	3/8"
119. Straight Joint	3/8"
122. Driver Extension	3/8" *75mm
111C. Spark Plug	



## No.0-50 Tool Set-50pcs



Tools	Description
191A. Hammer, Sledge	1.8kg
187. Hammer, Ball Pein	0.91kg
185. Hammer, Claw	0.45kg
130. Wrench, Pipe	300mm, 450mm
125. Wrench, Adjustable	200mm*24mm, 300mm*36mm
135. Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm
246. Pliers, Lineman	200mm
254. Pliers, Long Nose	200mm
245. Pliers, Adjustable Combination	200mm
237. Bar, Pinch	Φ 25*300mm
231. Chisel, Flat	Φ 25*300mm
223D. Punch, Machinists	Φ 20*300mm
260. Slotted, Screwdriver	5*100mm, 8*200mm
261. Phillips, Screwdriver	# 1*100mm, # 3*200mm
174. Valve, Handle	400mm
202B. Knife, Common	250mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
104. 1/2" Socket	10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm
120. Ratchet Wrench	1/2*245mm
122. Driver Extension	125mm, 250mm
123. Speed Handle	400mm
117. Sliding T Handle	250mm
112. Universal Joint	1/2"
203A. Putty Knife	25*200mm

## No.P-62 Tool Set-62pcs

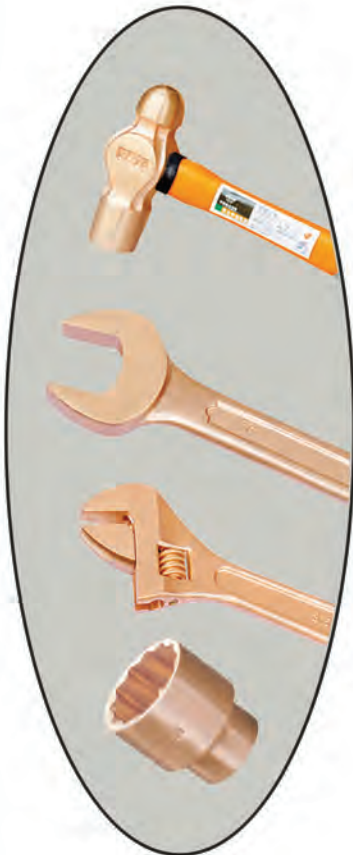


Tools	Description
125. Wrench, Adjustable	200mm, 250mm, 300mm
135. Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm
135A. Wrench, Combination	3/8" , 1/2" , 9/16" , 5/8" , 11/16" , 3/4" , 13/16" , 7/8" , 1"
131. Wrench, Pipe	200mm, 350mm
251. Pliers, Groove Joint	250mm
245. Pliers, Adjustable, Combination	150mm, 200mm,
246. Pliers, Lineman	200mm
253. Pliers, Snipe Nose	150mm
260. Slotted Screwdriver	75mm, 100mm, 150mm, 200mm,
261. Phillips Screwdriver	75mm, 100mm, 150mm, 200mm,
240. Bar, Wrecking	400mm
237A. Bar, Pinch	Φ 19*500mm
202B. Knife, Common	250mm
203A. Knife, Putty	40*200mm, 50*200mm, 100*200mm
207. Scraper, Deck	350mm
179. Wrench, Bung	385mm
231. Chisel, Flat	16*160mm, 18*200mm
186. Hammer, Cross Pein Engineers	0.5kg, 1kg
185. Hammer, Claw	0.45kg
104. 1/2" Socket	8mm, 10mm, 13mm, 14mm, 16mm, 17mm, 19mm, 21mm, 22mm, 26mm
122. Driver Extension	200mm
120. Ratchet Wrench	245mm
118. Hinged Handle	250mm

**No. Q-100 Tool Set-100pcs**



L\*W\*H: 625\*375\*745mm



Tools	Description
187. Hammer, Ball Pein	0.23kg, 0.45kg
185. Hammer, Claw	0.23kg
125. Wrench, Adjustable	150mm, 200mm, 250mm
135. Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm
246. Pliers, Lineman	200mm
253. Pliers, Snipe Nose	150mm
245. Pliers, Adjustable Combination	150mm
250. Pliers, Flat Nose	150mm
249. Pincers	200mm
255. Pliers, Round Nose	150mm
248. Pliers, Diagonal Cutting	200mm
258. Tweezer, Neat Tips	150mm
232. Flat 6 Chisel	14*160mm, 16*160mm, 18*160mm
236. Centre Punch	Φ16*100mm, Φ18*200mm, Φ20*300mm
223D. Punch, Machinists	Φ18*160mm, Φ18*250mm, Φ20*300mm
260. Slotted Screwdriver	5*75mm, 6*100mm, 7*150mm, 8*200mm, 9*300mm, 10*350mm
261. Phillips Screwdriver	5*75mm, 6*150mm, 8*250mm, 9*300mm
202B. Knife, Common	250mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
272. Hand Saw	370mm
206. Scraper, Flat	35*350mm
218. File, Half Round With Handle	200mm
217. File, Flat With Handle	200mm
220. File, Square With Handle	200mm
221. File, Triangle With Handle	200mm
101D. 1/4" *3/8" Socket	Set-20pcs
101M. 3/4" *1" Socket	Set-26pcs
Torch	2"



**No.R-120 Tool Set-120pcs**



**L\*W\*H: 625\*375\*745mm**



Tools	Description
135. Wrench, Combination	8mm, 10mm, 12mm, 13mm, 14mm, 16mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm
174. Valve Handle	400mm
191A. Hammer, Sledge	1kg, 1.8kg
185. Hammer, Claw	0.45kg
187. Hammer, Ball Pein	0.45kg
130. Wrench, Pipe	150mm, 200mm, 250mm, 300mm, 350mm
125. Wrench, Adjustable	150mm, 200mm, 250mm, 300mm
246. Pliers, Lineman	150mm, 200mm
253. Pliers, Snipe Nose	150mm, 200mm
250. Pliers, Flat Nose	150mm, 200mm
248. Pliers, Diagonal Cutting	150mm, 200mm
245. Pliers, Adjustable, Combination	150mm, 200mm
249. Pincers	200mm
242. Shears, Cutting	150mm
252A. Pliers, Groove Joint	250mm
260. Slotted Screwdriver	4*75mm, 5*100mm, 6*150mm, 8*200mm
261. Phillips Screwdriver	#1*75mm, #1*100mm, #2*150mm, #3*200mm
259. Slotted Offset Screwdriver	6*72mm, 8*125mm, 10*196mm
166. Wrench, Hex Key	3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 10mm
232. Chisel 6 Point	16*160mm
239. Bar, Wrecking	250mm
178. Wrench, Bung	350mm
202B. Knife, Common	250mm
203A. Knife, Putty	25*200mm
258. Tweezers, Neat Tips	150mm
221. File, Triangle	200mm
238. Hearing Needle	6*250mm
268. Marking Tool	250mm
272. Hand Saw	370mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
286. Brush	6*16mm
101I. 1/2" Dr Socket	Set-28pcs
101L. 3/4" Dr Socket	Set-21pcs

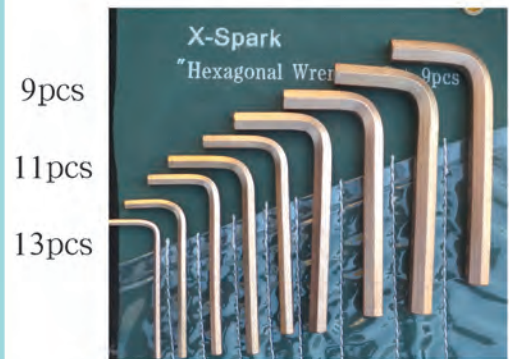
## No.S-176 Tool Set-176pcs



L\*W\*H: 1000\*500\*665mm

Tools	Description	Quantity
135. Wrench, Combination	6mm, 8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm	2
140. Wrench, Single Open End	41mm, 42mm, 44mm, 46mm, 48mm, 50mm, 55mm, 60mm	2
146. Wrench, Double Open End	8*10mm, 9*11mm, 12*14mm, 13*16mm, 16*18mm, 17*19mm, 20*22mm, 21*23mm, 24*27mm, 30*32mm	2
121A. Wrench, Socket L-Type	8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm	2
166. Wrench, Hex Key	8mm, 10mm, 12mm, 13mm, 14mm, 17mm, 19mm, 22mm	2
125. Wrench, Adjustable	200mm, 300mm	2
260. Slotted Screwdriver	4*100mm, 6*150mm, 8*200mm	2
261. Phillips Screwdriver	4*100mm, 6*150mm, 8*200mm	2
246. Pliers, Lineman	200mm	2
251. Pliers, Groove Joint	250mm	2
160. Wrench, Striking Box	22mm, 24mm, 27mm, 30mm, 32mm, 34mm, 36mm, 38mm, 41mm, 46mm, 50mm, 55mm, 60mm, 65mm, 70mm,	2
232. Chisel, Hex 6 Point	14*160mm	3
222. Punch, Machinists	14*150mm	3
284. Brush, Flat Back, Scratch	205*48mm	3
285. Brush	290*29mm	3
191A. Hammer, Sledge	1kg, 1.8kg, 2.7kg, 4.5kg	1

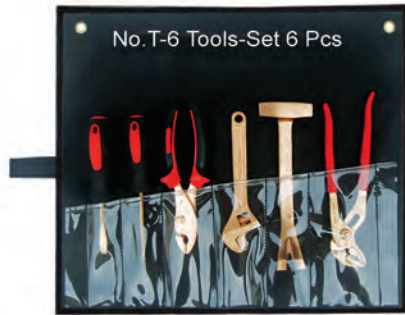
## No.S-A Hex Key Wrench Set



Tools	Description
Set-9	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm
Set-11	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12mm
Set-13	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm



**No.T-6 Tool Set-6pcs**



Tools	Description
260.Slotted Screwdriver	5/16 " *3 "
261 .Phillips Screwdriver	#2*4 "
125. Wrench, Adjustable	8 "
241.Crate Opener	230mm
252A .Pliers, Water Pump	10 "
245.Pliers,Adjustable Combination	6 "

**No.V-6 Tool Set-6pcs**



Tools	Description
260.Slotted Screwdriver	5/16 " *3 " , 7/16 " *6 " , 25/64 " *8 "
261.Phillips Screwdriver	#1*3 " , #2*4 " , #3*6 "

**No.U-10 Tool Set-10pcs**



Tools	Description
260.Slotted Screwdriver	5/16 " *3 "
261.Phillips Screwdriver	#2*4 "
125. Wrench, Adjustable	6 " , 10 "
185.Hammer, Claw	0.45kg
252A.Pliers, Water Pump	10 "
204C.Knife, Putty	1-1/4 " *3-9/16 "
202.Knife, Common	3-1/8 "
245.Pliers,Adjustable Combination	6 "
131.Wrench,Pipe (American Type)	10 "

**No.W-21 Tool Set-21pcs**



Tools	Description
104.Socket	5/16 " , 3/8 " , 7/16 " , 1/2 " , 9/16 " , 19/32 " , 5/8 " , 11/16 " , 3/4 " , 25/32 " , 13/16 " , 7/8 " , 15/16 " , 1 " , 1-1/16 " , 1-1/8 " , 1-1/4 "
118.Hinged Handle	1/2 " *250mm
120.Ratchet Wrench	1/2 " *245mm
122.Driver Extension	1/2 " *250mm
117.Sliding Bar	11 "

**No.X-16 Tool Set-16pcs**

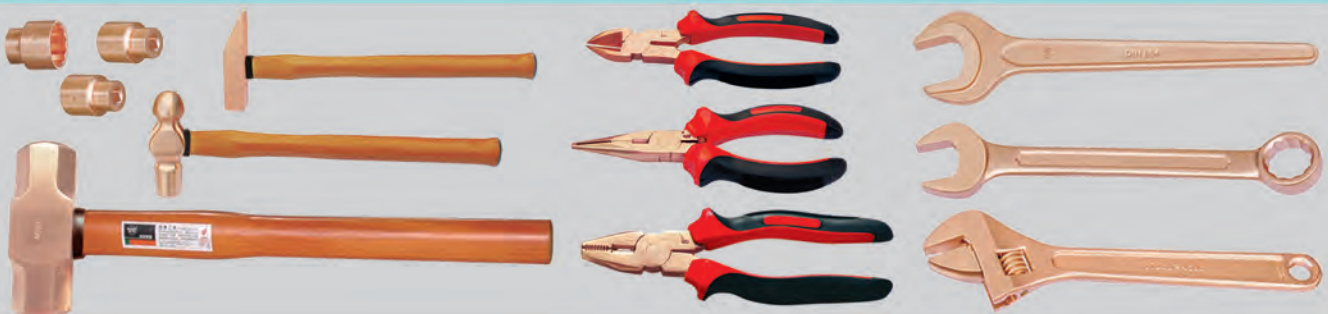


Tools	Description
260.Slotted Screwdriver	5/16 " *3 "
261 .Phillips Screwdriver	#3*6 "
125 .Wrench ,Adjustable	8 " ,12 "
185.Hammer ,Claw	0.45kg
241 .Crate Opener	230mm
252A .Pliers, Water Pump	12 "
204C .Knife,Putty	1-1/4 " *3-9/16 "
202 .Knife, Cimmon	5-3/4 "
253 .Pliers,Snipe Nose	7 "
245 .Pliers,Adjustable Combination	8 "
211 .Scraper, Spray Booth	3 "
210 .Scraper ,Deck	380mm
131 .Wrench, Pipe(American Type)	14 "
179A . Wrench, Bung	300mm
244 .Shears, Tin	12 "

**No.Y-34 Tool Set-34pcs**



Tools	Description
146.Wrench,Double Open End	6*7, 8*9, 9*11, 10*12, 11*13, 14*15, 16*18, 17*19, 20*22, 21*23, 24*26, 27*30, 32*36,
167. Wrench,Hex Key	1/16", 3/32"
166. Wrench,Hex Key	2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm
260.Slotted Screwdriver	8*150, 4*100, 4*75, 3*50
261 .Phillips Screwdriver	3*75, 5*100, 6*150,
258 .Tweezers,Neat Tips	150mm
252A .Pliers, Water Pump	250mm
125 .Wrench ,Adjustable	250mm
248 .Pliers,Diagonal Cutting	6"
253 .Long Nose Plier	6"





## No.Z-85 Tool Set-85pcs



Tools	Description
258. Tweezers, Neat Tips	200mm
268. Marking Tool	200mm
202B. Knife, Common	250mm
244A. Scissors	225mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
203A. Knife, Putty	40*200
260. Slotted Screwdriver	3*50, 4.5*150, 6*100
259. Phillips Offset Screwdriver	8*150, 10*300
261. Phillips Screwdriver	6*150, 6*130, 10*140
	#1*75, #2*125, #3*200
	#4*300
245. Pliers, Adjustable Combination	200mm
250. Pliers, Flat Nose	150mm
253. Pliers, Snipe Nose	150mm
248. Pliers, Diagonal Cutting	150mm
257C. Wire Stripping Pliers	170mm
255. Pliers, Round Nose	150mm
246. Pliers, Lineman	200mm
125. Wrench, Adjustable	150mm, 250mm
131. Wrench, Pipe(American Type)	350mm
187. Hammer, Ball Pein	0.45kg
191D. Club Hammer	4p
231. Chisel, Pneumatic	16*160, 25*230
237. Bar	16*455
240. Bar, Wrecking	455mm
120. Ratchet Wrench	1/2"*245
117. Liding T Handle	1/2"
122. Driver Extension	1/2"*100, 1/2"*250
112. Universal Joint	1/2"
104. 1/2" Dr Socket	10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, mm, 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8"
166. Wrench, Hex Key	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, mm
167. Wrench, Hex Key	1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16"



## No.AA01-36 Tool Set-36pcs



Tools	Description
258. Tweezers	200mm
268. Probe-Straight And Right Angled	187mm
202B. Knife	185mm
244A. Scissors	225mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
203A. Putty Knife / Scraper	40mm x 200mm
285A. Wire Brush	4 x 19
260. Screwdriver Flat	3x50, 4.5x150, 6x100, 8x150, 10x300, mm
259. Screwdriver Offset	6x150, 6x130, 10x140, mm
261. Screwdriver Cross Head	No. 1*75, No. 2*125, No. 3*200, No. 4*300mm
245. Pliers Adjustable	200mm
250. Pliers Flat Nose	150mm
253. Pliers Snipe Nose	150mm
248. Side Cutter	150mm
257C. Wire Snipper	170mm
255. Pliers Round Nose	150mm
246. Pliers Combination	200mm
125. Adjustable Spanner	18x150, 30x250, mm
131. Adjustable Pipe Wrench	50mm x 350mm
187. Ballpein Hammer	0.68Kg
191D. Club Hammer	1.8Kg
231. Cold Chisel	16x160, 25x230, mm
237. Pry Bar	16mm x 455mm
240. Swan Neck Bar (Wrecking Bar)	455mm

## No. AA02-85 Tool Set-85pcs



Tools	Description
258. Tweezers	200mm
268. Probe-Straight And Right Angled	187mm
202B. Knife	185mm
244A. Scissors	225mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
203A. Putty Knife / Scraper	40mm x 200mm
285A. Wire Brush	4 x 19
260. Screwdriver Flat	3x50, 4.5x150, 6x100, 8x150, 10x300, mm
259. Screwdriver Offset	6x150, 6x130, 10x140, mm
261. Screwdriver Cross Head	No. 1*75, No. 2*125, No. 3*200, No. 4*300mm
245. Pliers Adjustable	200mm
250. Pliers Flat Nose	150mm
253. Pliers Snipe Nose	150mm
248. Side Cutter	150mm
257C. Wire Snipper	170mm
255. Pliers Round Nose	150mm
246. Pliers Combination	200mm
125. Adjustable Spanner	18x150, 30x250, mm
131. Adjustable Pipe Wrench	50mm x 350mm
187. Ballpein Hammer	0.68Kg
191D. Club Hammer	1.8Kg
231. Cold Chisel	16x160, 25x230, mm
237. Pry Bar	16mm x 455mm
240. Swan Neck Bar (Wrecking Bar)	455mm
120. Ratchet	1/2" Square
117. Sliding Bar	1/2" Square
122. Extension Bar	1/2" Sqx100mm, 1/2" Sqx250mm
112. Universal Joint	1/2" Square
104. Socket 1/2 "	10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, mm
104. Socket 1/2 "	7/16 ", 1/2 ", 9/16 ", 5/8 ", 11/16 ", 3/4 ", 13/16 ", 7/8 ", 15/16 ", 1 ", 1-1/16 ", 1-1/8 "
166. Hex Wrench	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, mm
167. Hex Wrench	1/16 ", 5/64 ", 3/32 ", 1/8 ", 5/32 ", 3/16 ", 7/32 ", 1/4 ", 5/16 ", 3/8 ", 7/16 "

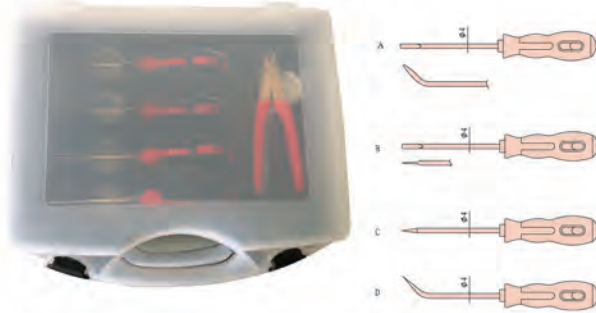
## No. AA03-100 Tool Set-100pcs



Tools	Description
258. Tweezers	200mm
268. Probe-Straight And Right Angled	187mm
202B. Knife	185mm
244A. Scissors	225mm
270. Hacksaw Frame	500mm
271. Hacksaw Blade	300mm
203A. Putty Knife / Scraper	40mm x 200mm
285A. Wire Brush	4 x 19
260. Screwdriver Flat	3x50, 4.5x150, 6x100, 8x150, 10x300, mm
259. Screwdriver Offset	6x150, 6x130, 10x140, mm
261. Screwdriver Cross Head	No. 1*75, No. 2*125, No. 3*200, No. 4*300mm
245. Pliers Adjustable	200mm
250. Pliers Flat Nose	150mm
253. Pliers Snipe Nose	150mm
248. Side Cutter	150mm
257C. Wire Snipper	170mm
255. Pliers Round Nose	150mm
246. Pliers Combination	200mm
125. Adjustable Spanner	18x150, 30x250, mm
131. Adjustable Pipe Wrench	50mm x 350mm
187. Ballpein Hammer	0.68Kg
191D. Club Hammer	1.8Kg
231. Cold Chisel	16x160, 25x230, mm
237. Pry Bar	16mm x 455mm
240. Swan Neck Bar (Wrecking Bar)	455mm
120. Ratchet	1/2" Square
117. Sliding Bar	1/2" Square
122. Extension Bar	1/2" Sqx100mm, 1/2" Sqx250mm
112. Universal Joint	1/2" Square
104. Socket 1/2 "	10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, mm
104. Socket 1/2 "	7/16 ", 1/2 ", 9/16 ", 5/8 ", 11/16 ", 3/4 ", 13/16 ", 7/8 ", 15/16 ", 1 ", 1-1/16 ", 1-1/8 "
166. Hex Wrench	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, mm
167. Hex Wrench	1/16 ", 5/64 ", 3/32 ", 1/8 ", 5/32 ", 3/16 ", 7/32 ", 1/4 ", 5/16 ", 3/8 ", 7/16 "
146. Double Open Spanner	7/16x1/2 ", 1/2x11/16 ", 9/16x5/8 ", 3/4x13/16 ", 7/8x15/16 ", 1x1-1/8 ", 1-1/16x1-1/4 "
146. Double Open Spanner	10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm
252A. Water Pump Plier	250mm
238D. Mine Prodder	1030mm



## No. AA04-5 Tool Set-5pcs



Tools	Description
A. same as the drawing	168mm
B. same as the drawing	168mm
C. same as the drawing	168mm
D. same as the drawing	168mm
248B. Mini Pliers, Diagonal Cutting	5"

## No. AA05-68 Tool Set-68pcs



Tools	Description
104. 1/2" Socket-6point	8mm, 10mm, 12mm, 13mm, 15mm 16mm, 17mm, 18mm, 19mm 22mm, 24mm, 27mm, 30mm
111A. 1/2" Internal Hexagon Socket	8mm, 10mm, 12mm
112. Universal Joint	1/2" *80mm
120. Ratchet Wrench	1/2" *245mm
122. Driver Extension	1/2" *100mm
125. Wrench, Adjustable	18*150mm, 24*200mm, 36*300mm
136. Combination Wrench	7mm, 8mm, 10mm, 12mm, 13mm 15mm, 16mm, 17mm, 18mm 19mm, 22mm, 24mm, 27mm 30mm
167B. Wrench, Hex Key	2mm, 3mm, 4mm, 5mm, 6mm 7mm, 8mm, 9mm, 10mm 11mm, 12mm
187. Hammer, Ball Pein	340g
191. Hammer, Sledge	1000g
202. Knife	185mm
206. Scraper, Flat	30*200mm
222. Punsch, Machinist	14*150mm
223B. Drift, Cylindrical	6*12*115mm, 8*14*120mm 10*16*145mm
247. Pliers, Cutting	8"
248. Pliers, Diagonal Cutting	6"
252. Pliers, Slip Joint	10"
253. Pliers, Long Nose	6"
260. Slotted Screwdriver	100*4mm, 75*4mm, 100*5mm 150*6mm, 350*11mm, 100mm, 125mm, 200mm, 300mm
261. Phillips Screwdriver	

## No. AA06-9 Tool Set-9pcs



Tools	Description
203A. Putty Knife	50*200mm
203B. Putty Knife	100*203mm
206. Flat Scraper	30*200mm
224. Triangular Scraper	300mm
225B. Scraper Pick And Scaler	75*450mm
212. Scraper	75mm
213. Arched scraper	100mm
286A. Brush	4*16mm
Case	

## No. AA07-16 Tool Set-16pcs



Tools	Description
203A. Putty Knife	50*200mm
252A. Water Pump Pliers	300mm
244. Tin Shears	300mm
125. Adjustable Wrench	24*200mm, 36*300mm
179. Bung Wrench	385mm
246. Lineman Pliers	200mm
254. Snipe Nose Pliers	200mm
185. Claw Hammer	680g
286A. Brush	4*16
202B. Common Knife	137*250mm
209. Deck Scraper	300mm
261. Phillips Screwdriver	150mm
260. Slotted Screwdriver	8*150mm
131. Pipe Wrench(American Type)	50-350mm
Case	

**No. AA03-18 Tool Set-18pcs**



Tools	Description
255. Round Nose Pliers	150mm
250. Flat Nose Pliers	150mm
248. Diagonal Cutting Pliers	150mm
246. Lineman Pliers	150mm
258. Neat Tips Tweezer	150mm
257C. Wire Stripping Pliers	170mm
125. Adjustable Wrench	18*150mm
260. Slotted Screwdriver	3*75mm, 4*100mm, 6*150mm
261. Phillips Screwdriver	#0*50mm, #1*75mm
167A. Hex Key With Ball Wrench	3mm, 4mm, 5mm
202B. Common Knife	250mm
244A. Scissors	225mm
Case	

**No. AA10-18 Tool Set-18pcs**



Tools	Description
240. Wrecking Bar	19*800mm
125. Adjustable Wrench	30*250mm, 36*300mm 46*375mm
187. Ball Pein Hammer	450g, 680g
190. Scaling Hammer	300g
191. Sledge Hammer	2500g
209. Deck Scraper	300mm
213. Arched Scraper	100mm
260. Slotted Screwdriver	8*200mm, 10*300mm
232. Hex Chisel/6Point	18*160mm
231. Flat Chisel	24*250mm
131. Pipe Wrench(American Type)	200mm, 250mm 50*350mm
Case	

**No. AA09-21 Tool Set-21pcs**



Tools	Description
131. Pipe Wrenchz(American Type)	50*350mm
135. Combination Wrench	10mm, 11mm, 12mm, 13mm, 14mm, 17mm, 19mm, 22mm,
261. Phillips Screwdriver	100mm
260. Slotted Screwdriver	150*8mm
125. Adjustable Wrench	30*250mm
246. Lineman Pliers	200mm
254. Snipe Nose Pliers	200mm
185. Claw Hammer	680g
286A. Brush	4*16mm
209. Deck Scraper	300mm
203A. Putty Knife	25*200mm
202B. Common Knife	137*250mm
252A. Water Pump Pliers	250mm
Case	

**No. AA11-38 Tool Set-38pcs**



Tools	Description
135. Combination Wrench	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm, 22mm, 24mm
252A. Water Pump Pliers	250mm
202B. Common Knife	137*250mm
203A. Putty Knife	50*200mm
286A. Brush	4*16mm
166. Hex Key Wrench	2mm, 3mm, 4mm, 5mm 6mm, 8mm, 10mm
246. Lineman Pliers	200mm
248. Diagonal Cutting Pliers	150mm
128. Swedish Type 45° Wrench	38*430mm
125. Adjustable Wrench	30*250mm, 36*300mm
186. Cross Pein Engineers Hammer	500g
191C. Sledge Hammer(German Type)	2000g
260. Slotted Screwdriver	100*5mm, 150*8mm
261. Phillips Screwdriver	75mm, 150mm
231. Flat Chisel	20*200mm
225A. Cross Cutting Chisel	200mm
223C. Punch	5*11*150mm, 8*14*150mm
244A. Scissors	225mm
Case	



**No.AA12-16 Tool Set-16pcs**



Tools	Description
261.Phillips Screwdriver	1 #*75mm, 1 #*100mm
260.Slotted Screwdriver	4*100mm, 5*100mm
167A.Wrench, Hex Key With Ball	2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm
246.Pliers, Lineman	6"
248.Pliers, Diagonal Cutting	6"
253.Pliers, Snipe Nose	6"
252A.Pliers, Water Pump	250mm
125.Wrench, Adjustable	24*200mm

**No.AA14-28 Tool Set-28pcs**



Tools	Description
261.Phillips Screwdriver × 2	100mm, 150mm
260.Slotted Screwdriver × 2	5*100mm, 7*150mm
135.Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm, 36mm
125B.Wrench, Adjustable	24*200mm, 30*250mm, 36*300mm
130A.Wrench, Pipe	60*450mm, 50*350mm, 75*600mm
246.Pliers, Lineman × 2	8"

**No.AA13-20 Tool Set-20pcs**



Tools	Description
261.Phillips Screwdriver	1 #*75mm
260.Slotted Screwdriver	5*75mm
246.Pliers, Lineman	6"
125.Wrench, Adjustable	12"
130.Wrench, Pipe	250mm
191A.Hammer, Sledge	4P
203.Knife, Putty	65*200mm
135.Wrench, Combination	8mm, 10mm, 12mm, 13mm, 14mm, 17mm, 19mm, 22mm, 24mm
231.Chisel, Flat	14*160mm
223D.Punch, Machinists'	20*200mm
166.Wrench, Hex Key	4mm
248.Pliers, Diagonal Cutting	6"



**No.AA15-35 Tool Set-35pcs**



Tools	Description
135. Combination Wrench	6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, 27mm, 30mm, 32mm, 34mm, 35mm, 36mm, 38mm, 41mm, 46mm, 50mm, 55mm, 60mm, 65mm, 70mm

**No.AA17-47 Tool Set-47pcs**



Tools	Description
135. Combination Wrench	8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm, 21mm, 22mm, 24mm, 26mm, 27mm, 30mm
104. Socket 1/2"	8mm, 11mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm, 21mm, 22mm, 24mm, 26mm, 27mm, 30mm, 36mm, 41mm
261. Phillips Screwdriver	1#*75mm, 2#*125mm
260. Slotted Screwdriver	4*100mm, 6*100mm
186A. Hammer, Cross Pein Engineers	200g, 300g
223C. Punch	3*11*120mm, 4*11*120mm
120. Ratchet Wrench	1/2*245mm
122. Driver Extension	1/2*100mm
118. Hinged Handle	1/2*400mm
285A. Brush	4*19mm
256. Pliers, Snap Ring-Internal	8", 10"
257. Pliers, Snap Ring-External	8", 10"

**No.AA16-36 Tool Set-36pcs**



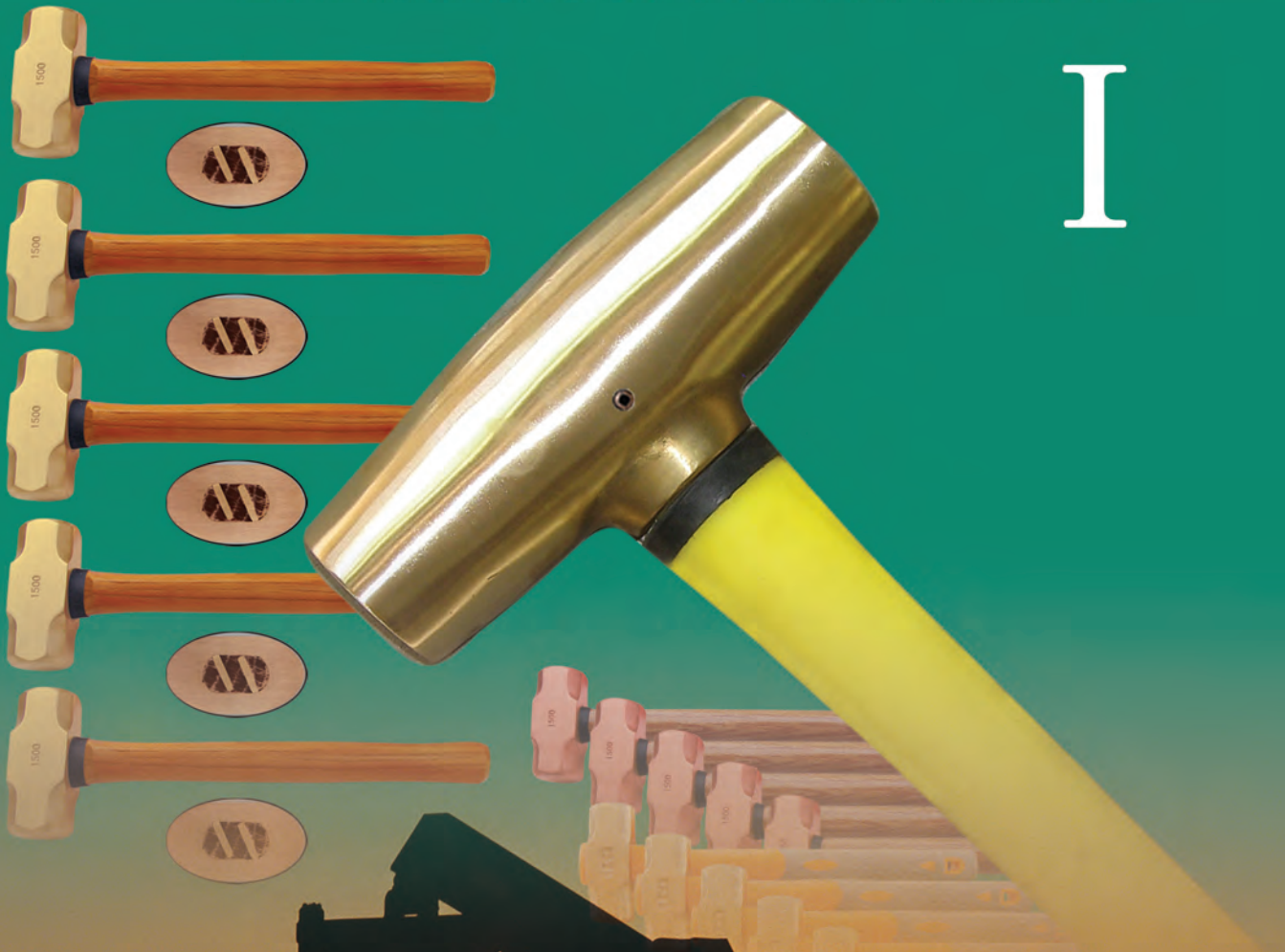
Tools	Description
146. Wrench, Double Open End	5.5*7mm, 6*7mm, 8*10mm, 9*11mm, 10*12mm, 12*14mm, 14*17mm, 17*19mm, 19*22mm, 22*24mm, 24*27mm, 27*30mm, 30*32mm
135. Wrench, Combination x 3	8mm, 10mm, 13mm, 16mm, 30mm, 32mm
130. Wrench, Pipe x 2	300mm
125. Wrench, Adjustable x 2	450mm
187. Hammer, Ball Pein	450g





# BRASS & COPPER HAMMER

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**No.2101A Brass Hammer, Sledge**



Number	Size lb	L mm	⚖ g
2101A-1002	1	300	450
2101A-1004	2	350	910
2101A-1006	3	400	1400
2101A-1008	4	400	1800
2101A-1010	5	400	2250
2101A-1012	6	700	2700
2101A-1014	8	700	3600
2101A-1016	10	900	4500
2101A-1018	12	900	5400
2101A-1020	14	900	6400
2101A-1022	16	900	7200
2101A-1024	20	900	9000

**No.2101B Brass Hammer, Sledge**



Number	Size lb	L mm	⚖ g
2101B-1002	1	310	450
2101B-1004	2	320	910
2101B-1006	3	360	1400
2101B-1008	4	380	1800
2101B-1010	5	400	2250
2101B-1012	6	400	2700
2101B-1014	8	700	3600
2101B-1016	10	800	4500
2101B-1018	12	800	5400
2101B-1020	14	800	6400
2101B-1022	16	900	7200
2101B-1024	20	900	9000

**No.2102A Brass Hammer, Mallet**



Number	Size lb	L mm	⚖ g
2102A-1002	1	300	450
2102A-1004	2	350	910
2102A-1006	3	400	1400
2102A-1008	5	400	2250
2102A-1010	6	700	2700
2102A-1012	8	700	3600
2102A-1014	10	900	4500
2102A-1016	15	900	6750

**No.2102B Brass Hammer, Mallet**



Number	Size lb	L mm	⚖ g
2102B-1002	1	310	450
2102B-1004	2	320	910
2102B-1006	3	360	1400
2102B-1008	5	400	2250
2102B-1010	6	400	2700
2102B-1012	8	700	3600
2102B-1014	10	800	4500
2102B-1016	15	800	6750





**No.2103A Brass Hammer, Drum Type**



Number	Size lb	L mm	⚖ g
2103A-1002	1/2	280	230
2103A-1004	1	310	450
2103A-1006	1-1/2	340	680
2103A-1008	2	350	910
2103A-1010	3	400	1400
2103A-1012	4	400	1800
2103A-1014	5	400	2250
2103A-1016	6	700	2700
2103A-1018	8	700	3600
2103A-1020	10	900	4500

**No.2103B Brass Hammer, Drum Type**



Number	Size lb	L mm	⚖ g
2103B-1002	1/2	280	230
2103B-1004	1	300	450
2103B-1006	1-1/2	320	680
2103B-1008	2	320	910
2103B-1010	3	360	1400
2103B-1012	4	360	1800
2103B-1014	5	400	2250
2103B-1016	6	400	2700
2103B-1018	8	700	3600
2103B-1020	10	800	4500

**No.2104A Brass Hammer, Sledge (German Type)**



Number	Size g	L mm	⚖ g
2104A-1002	500	310	500
2104A-1004	1000	400	1000
2104A-1006	1500	400	1500
2104A-1008	1800	400	1800
2104A-1010	2000	400	2000
2104A-1012	2700	700	2700
2104A-1014	3600	700	3600
2104A-1016	4000	900	4000
2104A-1018	5000	900	5000

**No.2104B Brass Hammer, Sledge (German Type)**



Number	Size g	L mm	⚖ g
2104B-1002	500	310	500
2104B-1004	1000	320	1000
2104B-1006	1500	360	1500
2104B-1008	1800	380	1800
2104B-1010	2000	380	2000
2104B-1012	2700	400	2700
2104B-1014	3600	700	3600
2104B-1016	4000	800	4000
2104B-1018	5000	800	5000

**No.2105A Brass Hammer, Ball Pein**



Number	Size lb	L mm	⚖ g
2105A-1002	1/2	280	230
2105A-1004	3/4	280	340
2105A-1006	1	280	450
2105A-1008	1-1/2	310	680
2105A-1010	2	340	910
2105A-1012	2-1/2	350	1130

**No.2105B Brass Hammer, Ball Pein**



Number	Size lb	L mm	⚖ g
2105B-1002	1/2	300	230
2105B-1004	3/4	300	340
2105B-1006	1	300	450
2105B-1008	1-1/2	325	680
2105B-1010	2	365	910
2105B-1012	2-1/2	365	1130



**No.2106A Brass Hammer, Double face**



Number	Size g	L mm	⚖ g
2106A-1002	500	300	500
2106A-1004	1000	350	1000
2106A-1006	2000	400	2000
2106A-1008	3000	700	3000
2106A-1010	5000	900	5000

**No.2106B Brass Hammer, Double face**



Number	Size g	L mm	⚖ g
2106B-1002	500	310	500
2106B-1004	1000	320	1000
2106B-1006	2000	380	2000
2106B-1008	3000	700	3000
2106B-1010	5000	800	5000

**No.2107A Brass Flat Hammer(Euro Type)**



Number	Size lb	L mm	⚖ g
2107A-1002	1	310	450
2107A-1004	2	350	910
2107A-1006	3	400	1400
2107A-1008	5	400	2250
2107A-1010	6	700	2700
2107A-1012	8	700	3600
2107A-1014	10	900	4500
2107A-1016	15	900	6750

**No.2107B Brass Flat Hammer(Euro Type)**



Number	Size lb	L mm	⚖ g
2107B-1002	1	310	450
2107B-1004	2	320	910
2107B-1006	3	360	1400
2107B-1008	5	400	2250
2107B-1010	6	400	2700
2107B-1012	8	700	3600
2107B-1014	10	800	4500
2107B-1016	15	800	6750



**No.2108A Brass Hammer, Scaling**



Number	Size g	L mm	⚖ g
2108A-1002	150	280	205
2108A-1004	300	280	370

**No.2108B Brass Hammer, Scaling**



Number	Size g	L mm	⚖ g
2108B-1002	150	330	205
2108B-1004	300	350	370

**No.2109 Nylon Hammer**



Number	Size g	L mm	⚖ g
2109-1002	420	280	420
2109-1004	650	340	650

**No.2201A Copper Hammer, Sledge**

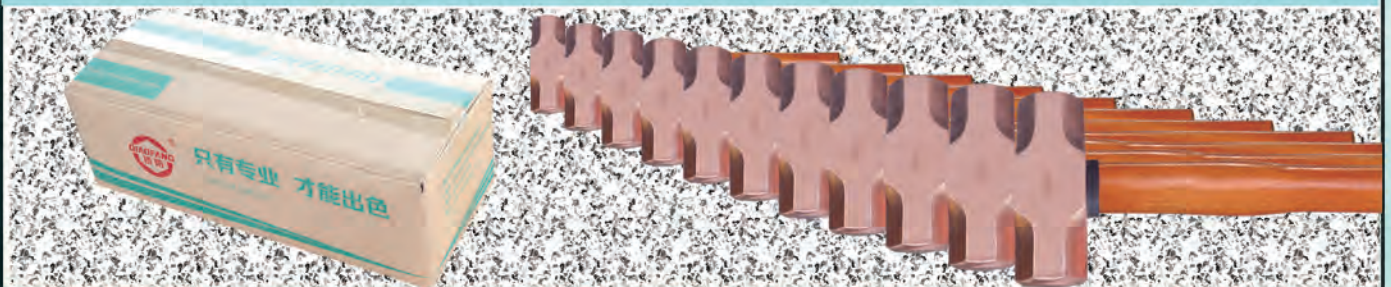


Number	Size lb	L mm	⚖ g
2201A-1002	1	300	450
2201A-1004	2	350	910
2201A-1006	3	400	1400
2201A-1008	4	400	1800
2201A-1010	5	400	2250
2201A-1012	6	700	2700
2201A-1014	8	700	3600
2201A-1016	10	900	4500
2201A-1018	12	900	5400
2201A-1020	14	900	6400
2201A-1022	16	900	7200
2201A-1024	20	900	9000

**No.2201B Copper Hammer, Sledge**



Number	Size lb	L mm	⚖ g
2201B-1002	1	310	450
2201B-1004	2	320	910
2201B-1006	3	360	1400
2201B-1008	4	380	1800
2201B-1010	5	400	2250
2201B-1012	6	400	2700
2201B-1014	8	700	3600
2201B-1016	10	800	4500
2201B-1018	12	800	5400
2201B-1020	14	800	6400
2201B-1022	16	900	7200
2201B-1024	20	900	9000



**No.2202A Copper Hammer, Mallet**



Number	Size lb	L mm	⚖ g
2202A-1002	1	300	450
2202A-1004	2	350	910
2202A-1006	3	400	1400
2202A-1008	5	400	2250
2202A-1010	6	700	2700
2202A-1012	8	700	3600
2202A-1014	10	900	4500
2202A-1016	15	900	6750

**No.2202B Copper Hammer, Mallet**



Number	Size lb	L mm	⚖ g
2202B-1002	1	310	450
2202B-1004	2	320	910
2202B-1006	3	360	1400
2202B-1008	5	400	2250
2202B-1010	6	400	2700
2202B-1012	8	700	3600
2202B-1014	10	800	4500
2202B-1016	15	800	6750

**No.2203A Copper Hammer, Drum Type**

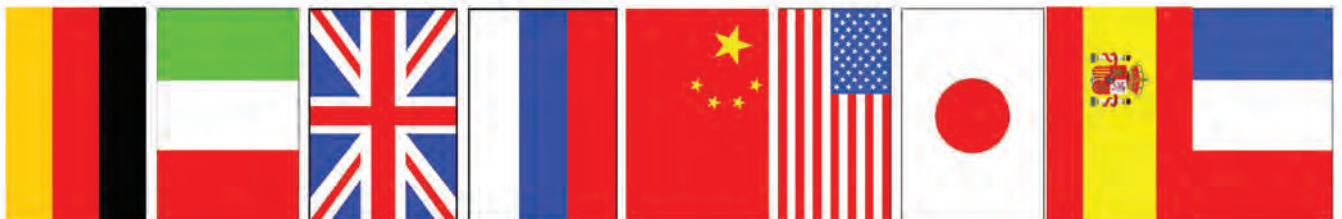


Number	Size lb	L mm	⚖ g
2203A-1002	1/2	280	230
2203A-1004	1	300	450
2203A-1006	1-1/2	340	680
2203A-1008	2	350	910
2203A-1010	3	400	1400
2203A-1012	4	400	1800
2203A-1014	5	400	2250
2203A-1016	6	700	2700
2203A-1018	8	700	3600
2203A-1020	10	900	4500

**No.2203B Copper Hammer, Drum Type**



Number	Size lb	L mm	⚖ g
2203B-1002	1/2	280	230
2203B-1004	1	300	450
2203B-1006	1-1/2	320	680
2203B-1008	2	320	910
2203B-1010	3	360	1400
2203B-1012	4	360	1800
2203B-1014	5	400	2250
2203B-1016	6	400	2700
2203B-1018	8	700	3600
2203B-1020	10	800	4500





**No.2204A Copper Hammer, Sledge (German Type)**



Number	Size g	L mm	g
2204A-1002	500	300	500
2204A-1004	1000	400	1000
2204A-1006	1500	400	1500
2204A-1008	1800	400	1800
2204A-1010	2000	400	2000
2204A-1012	2700	700	2700
2204A-1014	3600	700	3600
2204A-1016	4000	900	4000
2204A-1018	5000	900	5000

**No.2204B Copper Hammer, Sledge (German Type)**



Number	Size g	L mm	g
2204B-1002	500	310	500
2204B-1004	1000	320	1000
2204B-1006	1500	360	1500
2204B-1008	1800	380	1800
2204B-1010	2000	380	2000
2204B-1012	2700	400	2700
2204B-1014	3600	700	3600
2204B-1016	4000	800	4000
2204B-1018	5000	800	5000

**No.2205A Copper Hammer, Ball Pein**



Number	Size lb	L mm	g
2205A-1002	1/2	280	230
2205A-1004	3/4	280	340
2205A-1006	1	280	450
2205A-1008	1-1/2	310	680
2205A-1010	2	340	910
2205A-1012	2-1/2	350	1130

**No.2205B Copper Hammer, Ball Pein**



Number	Size lb	L mm	g
2205B-1002	1/2	300	230
2205B-1004	3/4	300	340
2205B-1006	1	300	450
2205B-1008	1-1/2	325	680
2205B-1010	2	365	910
2205B-1012	2-1/2	365	1130

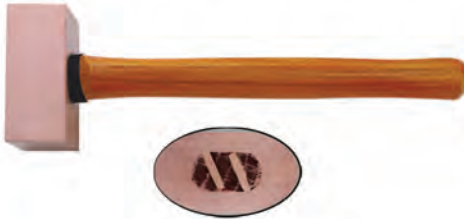


**No.2206A Copper Hammer, Double face**



Number	Size g	L mm	g
2206A-1002	500	300	500
2206A-1004	1000	350	1000
2206A-1006	2000	400	2000
2206A-1008	3000	700	3000
2206A-1010	5000	900	5000

**No.2206B Copper Hammer, Double face**



Number	Size g	L mm	⚖ g
2206B-1002	500	310	500
2206B-1004	1000	320	1000
2206B-1006	2000	380	2000
2206B-1008	3000	700	3000
2206B-1010	5000	800	5000

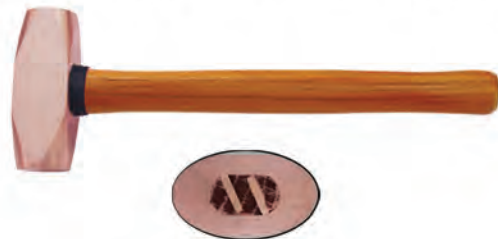


**No.2207A Copper Flat Hammer (Euro Type)**



Number	Size lb	L mm	⚖ g
2207A-1002	1	300	450
2207A-1004	2	350	910
2207A-1006	3	400	1400
2207A-1008	5	400	2250
2207A-1010	6	700	2700
2207A-1012	8	700	3600
2207A-1014	10	900	4500
2207A-1016	15	900	6750

**No.2207B Copper Flat Hammer (Euro Type)**



Number	Size lb	L mm	⚖ g
2207B-1002	1	310	450
2207B-1004	2	320	910
2207B-1006	3	360	1400
2207B-1008	5	400	2250
2207B-1010	6	400	2700
2207B-1012	8	700	3600
2207B-1014	10	800	4500
2207B-1016	15	800	6750

**No.2208A Copper Hammer, Scaling**



Number	Size g	L mm	⚖ g
2208A-1002	150	280	205
2208A-1004	300	280	370

**No.2208B Copper Hammer, Scaling**



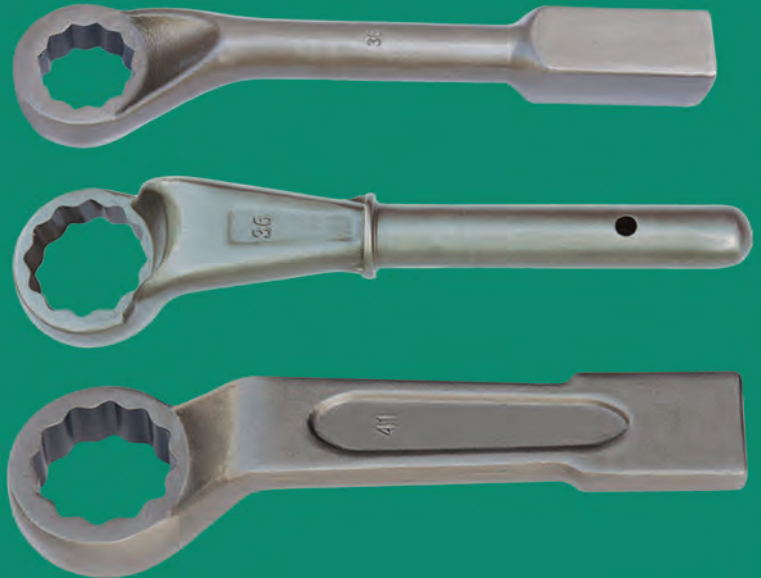
Number	Size g	L mm	⚖ g
2208B-1002	150	330	205
2208B-1004	300	350	370



**DIN STANDARD**

**J<sub>1</sub>**

**TAURUS<sup>®</sup>**



DIN894  
DIN895  
DIN838  
DIN3113

SURFACE: A、 PHOSPHATED  
B、 NATURAL COLOUR  
C、 BLACK EPOXY

**DIN133**

**DIN7444**



## No.3301 Wrench, Construction with Pin



- Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3301-17	17	220	120	3301-36	36	360	680
3301-19	19	240	150	3301-41	41	380	950
3301-22	22	260	200	3301-46	46	400	1050
3301-24	24	280	250	3301-50	50	420	1100
3301-27	27	300	330	3301-55	55	450	1400
3301-30	30	320	420	3301-60	60	480	1900
3301-32	32	340	500				

## No.3303 Wrench, Double Open End



- Die Forged DIN 895

Number	Size mm	L mm	g	Qty Carton	Gw kg
3303-1417	14*17	160	120	20	2.50
3303-1719	17*19	180	130	20	2.70
3303-1922	19*22	200	180	20	3.80
3303-1924	19*24	220	250	20	5.20
3303-2224	22*24	230	230	16	4.20
3303-2427	24*27	255	320	16	5.30
3303-2730	27*30	280	470	16	8.00
3303-3032	30*32	300	580	14	8.70
3303-3236	32*36	320	700	14	10.50
3303-3436	34*36	330	750	14	11.20
3303-3641	36*41	350	850	14	13.40
3303-4146	41*46	380	970	14	14.50
3303-4650	46*50	420	1400	12	18.30
3303-5055	50*55	460	1800	/	/
3303-5560	55*60	500	2650	/	/
3303-6065	60*65	540	3200	/	/
3303-6570	65*70	580	3450	/	/
3303-7075	70*75	600	3900	/	/
3303-7580	75*80	660	4620	/	/

## No.3302 Wrench, Single Open End



- Die Forged DIN 894

Number	Size mm	L mm	g	Qty Carton	Gw kg
3302-14	14	140	90	50	6
3302-17	17	160	100	50	6.7
3302-19	19	170	120	50	7.7
3302-22	22	195	160	50	9.8
3302-24	24	220	180	50	10.8
3302-27	27	240	270	50	15.3
3302-30	30	260	300	50	17
3302-32	32	275	380	50	21.5
3302-34	34	290	470	/	/
3302-36	36	310	500	40	22.3
3302-41	41	345	580	30	19
3302-46	46	375	900	20	20
3302-50	50	410	1150	16	20.5
3302-55	55	450	1400	14	21.5
3302-60	60	490	2000	10	23.5
3302-65	65	530	2800	8	26.5
3302-70	70	570	3050	6	25.5
3302-75	75	610	3500	/	/
3302-80	80	645	4600	/	/
3302-85	85	690	5200	/	/
3302-90	90	850	6100	/	/
3302-95	95	850	6100	/	/
3302-100	100	1000	7700	/	/
3302-105	105	1000	7700	/	/
3302-110	110	1000	9000	/	/
3302-115	115	1000	9000	/	/
3302-120	120	1000	9500	/	/
3302-125	125	1000	9500	/	/





## No.3304 Wrench, Striking Open



Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3304-22	22	135	190	20	4.00
3304-24	24	150	230	20	4.80
3304-27	27	175	350	20	7.30
3304-30	30	190	500	20	10.10
3304-32	32	190	600	20	12.60
3304-36	36	210	700	20	14.20
3304-38	38	220	820	20	17.00
3304-41	41	230	900	12	11.30
3304-46	46	250	1200	12	16.00
3304-50	50	275	1500	10	15.50
3304-55	55	305	2000	8	17.30
3304-60	60	315	2200	6	15.00
3304-65	65	335	3100	4	12.60
3304-70	70	370	4000	4	16.70
3304-75	75	375	4500	/	/
3304-80	80	400	5500	/	/
3304-85	85	400	5500	/	/
3304-90	90	445	8000	/	/
3304-100	100	485	11500	/	/
3304-110	110	512	14000	/	/
3304-120	120	530	16300	/	/
3304-130	130	560	18500	/	/
3304-140	140	630	24000	/	/
3304-150	150	630	24000	/	/

Number	Size inch	L mm	g
3304-1002	7/8	135	190
3304-1004	15/16	150	230
3304-1006	1	175	390
3304-1008	1-1/8	190	500
3304-1010	1-1/4	190	540
3304-1012	1-7/16	210	700
3304-1014	1-1/2	220	820
3304-1016	1-5/8	230	900
3304-1018	1-3/4	250	1200
3304-1020	2	275	1400
3304-1022	2-1/8	305	1800
3304-1024	2-3/8	315	2110
3304-1026	2-1/2	335	2850
3304-1028	2-3/4	370	3550
3304-1030	3	375	4000
3304-1032	3-1/8	400	5500
3304-1036	3-1/2	445	7000
3304-1038	4	485	10500

## No.3305 Wrench, Construction with Pin



• Die Forged

## No.3304A Wrench, Bent Striking Open



• Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3304A-19	19	140	140	3304A-50	50	275	1700
3304A-22	22	150	170	3304A-55	55	305	2300
3304A-24	24	150	200	3304A-60	60	315	2800
3304A-27	27	175	400	3304A-65	65	335	3600
3304A-32	32	190	550	3304A-70	70	370	4400
3304A-36	36	210	750	3304A-75	75	375	4700
3304A-41	41	230	1100	3304A-80	80	400	6100
3304A-46	46	250	1250				

## No.3304B Wrench, Striking Open



• Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3304B-22	22	135	190	3304B-65	65	335	2850
3304B-24	24	150	230	3304B-70	70	370	3550
3304B-27	27	175	390	3304B-75	75	375	4000
3304B-30	30	190	500	3304B-80	80	400	5500
3304B-32	32	190	540	3304B-85	85	400	5200
3304B-36	36	210	700	3304B-90	90	445	7000
3304B-38	38	220	820	3304B-100	100	485	10500
3304B-41	41	230	900	3304B-110	110	512	13200
3304B-46	46	250	1200	3304B-120	120	530	16300
3304B-50	50	275	1400	3304B-130	130	560	18500
3304B-55	55	305	1800	3304B-140	140	630	24000
3304B-60	60	315	2110	3304B-150	150	630	24000

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3305-17	17	320	205	30	7
3305-19	19	350	300	30	9.8
3305-22	22	350	410	30	13
3305-24	24	370	450	30	14.3
3305-27	27	370	610	30	19
3305-30	30	400	755	/	/
3305-32	32	400	755	25	14.5
3305-36	36	430	900	20	16
3305-41	41	470	1205	15	17.3
3305-46	46	500	1515	15	19.7
3305-50	50	530	1780	10	18
3305-55	55	560	2045	10	24

## No.3306 Wrench, Combination



● Die Forged DIN 3113

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3306-22	22	245	280	18	5.80
3306-24	24	265	320	18	6.60
3306-27	27	290	440	18	8.80
3306-30	30	320	640	15	10.70
3306-32	32	340	700	15	10.40
3306-36	36	360	1000	12	13.80
3306-41	41	430	1420	8	12.40
3306-46	46	480	1600	8	14.00
3306-50	50	520	1900	6	12.40
3306-55	55	560	2470	6	15.00
3306-60	60	595	2750	6	17.70
3306-65	65	595	3300	6	20.90
3306-70	70	630	4200	/	/
3306-75	75	630	4000	/	/
3306-80	80	660	5400	/	/
3306-85	85	660	5200	/	/
3306-90	90	720	7100	/	/
3306-95	95	720	6800	/	/
3306-100	100	780	8400	/	/
3306-105	105	780	8100	/	/
3306-110	110	840	9800	/	/
3306-115	115	840	9500	/	/
3306-120	120	900	12100	/	/
3306-125	125	900	11800	/	/

## No.3307 Wrench, Single Bent Box



● Die Forged

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3307-10	10	119	55	50	3.5
3307-12	12	151	82	50	4.8
3307-14	14	151	90	/	/
3307-17	17	174	150	50	8.2
3307-19	19	207	215	50	11.5
3307-22	22	207	215	/	/
3307-24	24	250	330	50	17.3
3307-27	27	250	330	/	/
3307-30	30	295	520	30	16.3
3307-32	32	295	550	/	/
3307-36	36	307	600	30	19
3307-41	41	340	780	20	16.3
3307-46	46	370	1050	15	16.8
3307-50	50	400	1580	10	17
3307-55	55	430	2130	8	17.5
3307-60	60	450	2430	8	20
3307-65	65	470	2520	8	21
3307-70	70	490	3480	6	22
3307-75	75	510	3800	/	/
3307-80	80	530	4200	/	/

## No.3308 Wrench, Single Box Offset



● Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3308-22	22	190	200	3308-55	55	445	2100
3308-24	24	215	245	3308-60	60	474	2500
3308-27	27	230	310	3308-65	65	510	2900
3308-30	30	255	425	3308-70	70	555	3360
3308-32	32	265	510	3308-75	75	590	3400
3308-36	36	295	690	3308-80	80	620	4650
3308-41	41	330	960	3308-85	85	665	5300
3308-46	46	365	1305	3308-90	90	700	5950
3308-50	50	400	1610	3308-100	100	740	6750

## No.3309 Wrench, Striking Box Bent



● Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3309-22	22	140	220	3309-46	46	240	1100
3309-24	24	160	280	3309-50	50	255	1300
3309-27	27	175	350	3309-55	55	270	1500
3309-30	30	190	500	3309-60	60	285	2000
3309-32	32	190	450	3309-65	65	300	2500
3309-36	36	210	600	3309-70	70	320	2800
3309-41	41	225	850	3309-75	75	330	3200



## No.3310 Wrench, Striking Box



● Die Forged DIN 7444

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3310-17	17	145	200	20	4.10
3310-19	19	145	200	20	4.10
3310-22	22	155	230	20	4.80
3310-24	24	165	250	20	5.20
3310-27	27	175	310	20	6.50
3310-30	30	185	405	20	8.30
3310-32	32	185	430	20	9.00
3310-36	36	205	520	20	11.00
3310-41	41	225	710	20	14.60
3310-46	46	235	900	12	11.00
3310-50	50	250	1050	12	13.30
3310-55	55	265	1360	12	16.50
3310-60	60	274	1500	8	13.00
3310-65	65	298	2100	8	17.20
3310-70	70	320	2350	8	19.50
3310-75	75	326	2850	/	/
3310-80	80	350	3400	/	/
3310-85	85	355	4100	/	/
3310-90	90	380	5200	/	/
3310-100	100	410	6700	/	/
3310-110	110	445	8640	/	/
3310-120	120	480	10400	/	/
3310-130	130	520	11900	/	/
3310-140	140	520	12280	/	/
3310-150	150	565	13650	/	/
3310-160	160	585	15800	/	/

Number	Size inch	L mm	g	Number	Size inch	L mm	g
3310-1002	7/8	155	230	3310-1020	2	250	1200
3310-1004	15/16	165	250	3310-1022	2-1/8	265	1360
3310-1006	1	175	330	3310-1024	2-3/8	274	1500
3310-1008	1-1/8	185	440	3310-1026	2-1/2	298	1900
3310-1010	1-1/4	185	450	3310-1028	2-3/4	320	2300
3310-1012	1-7/16	205	550	3310-1030	3	326	2850
3310-1014	1-1/2	215	625	3310-1032	3-1/8	350	3400
3310-1016	1-5/8	225	710	3310-1036	3-1/2	380	5200
3310-1018	1-3/4	235	900	3310-1038	4	410	6700

## No.3310A Wrench, Striking Box

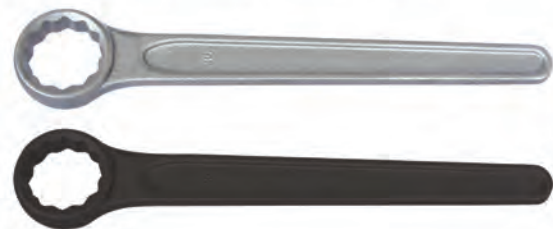


● Die Forged DIN 7444

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3310A-17	17	145	200	3310A-65	65	298	1900
3310A-19	19	145	200	3310A-70	70	320	2300
3310A-22	22	155	230	3310A-75	75	326	2850
3310A-24	24	165	250	3310A-80	80	350	3400
3310A-27	27	175	330	3310A-85	85	355	4100
3310A-30	30	185	440	3310A-90	90	380	5200
3310A-32	32	185	450	3310A-100	100	410	6700
3310A-36	36	205	550	3310A-110	110	445	8640
3310A-41	41	225	710	3310A-120	120	480	10400
3310A-46	46	235	900	3310A-130	130	520	11900
3310A-50	50	250	1200	3310A-140	140	520	12280
3310A-55	55	265	1360	3310A-150	150	565	13650
3310A-60	60	274	1500	3310A-160	160	585	15800

Number	Size inch	L mm	g	Number	Size inch	L mm	g
3310A-1002	7/8	155	230	3310A-1020	2	250	1200
3310A-1004	15/16	165	250	3310A-1022	2-1/8	265	1360
3310A-1006	1	175	330	3310A-1024	2-3/8	274	1500
3310A-1008	1-1/8	185	440	3310A-1026	2-1/2	298	1900
3310A-1010	1-1/4	185	450	3310A-1028	2-3/4	320	2300
3310A-1012	1-7/16	205	550	3310A-1030	3	326	2850
3310A-1014	1-1/2	215	625	3310A-1032	3-1/8	350	3400
3310A-1016	1-5/8	225	710	3310A-1036	3-1/2	380	5200
3310A-1018	1-3/4	235	900	3310A-1038	4	410	6700

## No.3311 Wrench, Single End Box



● Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3311-22	22	190	170	3311-55	55	445	1830
3311-24	24	215	210	3311-60	60	474	2180
3311-27	27	230	265	3311-65	65	510	2600
3311-30	30	255	370	3311-70	70	555	3050
3311-32	32	265	445	3311-75	75	590	3085
3311-36	36	295	600	3311-80	80	620	4200
3311-41	41	330	835	3311-85	85	620	4800
3311-46	46	365	1135	3311-90	90	650	5400
3311-50	50	400	1400	3311-100	100	650	6100



## No.3312 Wrench, Construction



● Die Forged

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3312-17	17	310	190	50	10.3
3312-19	19	330	215	50	10.5
3312-22	22	350	275	50	14.7
3312-24	24	370	340	50	18
3312-27	27	400	425	40	18
3312-30	30	430	600	30	18
3312-32	32	430	580	/	/
3312-36	36	460	825	20	17.3
3312-41	41	490	1070	20	22
3312-46	46	520	1450	10	15
3312-50	50	540	1780	10	18.7
3312-55	55	560	2100	8	17.5
3312-60	60	610	2500	8	21
3312-65	65	630	2700	6	17
3312-70	70	630	3200	/	/
3312-75	75	665	3460	/	/
3312-80	80	690	4000	/	/
3312-85	85	690	3850	/	/
3312-90	90	710	5000	/	/
3312-95	95	710	4800	/	/
3312-100	100	730	5800	/	/
3312-110	110	750	7200	/	/

## No.3313 Wrench, Striking Convex Box



● Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3313-27	27	175	350	3313-50	50	257	1500
3313-30	30	185	500	3313-55	55	267	1700
3313-32	32	185	450	3313-60	60	278	2000
3313-36	36	210	700	3313-65	65	298	2200
3313-41	41	227	900	3313-70	70	320	2800
3313-46	46	245	1200	3313-75	75	326	3000



## No.3314 Wrench, Double Box Offset



● Die Forged DIN 838

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3314-1719	17*19	280	170	50	9.3
3314-1922	19*22	300	200	50	10.8
3314-1924	19*24	320	300	/	/
3314-2123	21*23	320	350	/	/
3314-2224	22*24	330	400	50	21
3314-2427	24*27	340	450	40	19
3314-2730	27*30	350	500	40	21
3314-3032	30*32	370	650	30	20.5
3314-3236	32*36	430	950	20	20
3314-3641	36*41	470	1200	20	25
3314-4146	41*46	500	1500	10	16
3314-4650	46*50	525	1800	10	19
3314-5055	50*55	550	2700	6	17
3314-5560	55*60	575	3000	6	19
3314-6065	60*65	600	3600	/	/
3314-6570	65*70	625	3900	/	/
3314-7075	70*75	650	4300	/	/
3314-7580	75*80	675	4800	/	/

## No.3315 Wrench, Double Flat Box



● Die Forged DIN 837

Number	Size mm	L mm	g
3315-1719	17*19	185	125
3315-1922	19*22	200	170
3315-2224	22*24	220	225
3315-2427	24*27	255	300
3315-2430	24*30	270	355
3315-2528	25*28	265	360
3315-2730	27*30	280	405
3315-3032	30*32	295	470
3315-3034	30*34	310	555
3315-3236	32*36	330	620
3315-3436	34*36	345	715
3315-3641	36*41	365	880



## No.3316 Ring Wrench for Extension



● Die Forged

Number	Size mm	L mm	g
3316-24	24	180	450
3316-27	27	190	500
3316-30	30	200	550
3316-32	32	235	750
3316-36	36	245	850
3316-41	41	265	1000
3316-46	46	280	1400
3316-50	50	290	1600
3316-55	55	300	1750
3316-60	60	345	2800
3316-65	65	355	3200
3316-70	70	365	3700
3316-75	75	375	4100
3316-80	80	385	4900

## No.3316A Extension for No.3316

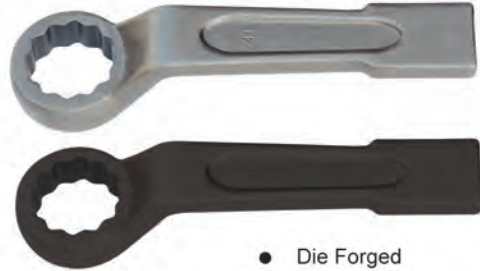


● Die Forged

Number	Size mm	L mm	Φ mm	g
3316A-1002	24-30	460	19	775
3316A-1004	32-41	610	22	1130
3316A-1006	46-55	760	25	1875
3316A-1008	60-80	860	30	2880



## No.3317 Offset Slogging Box Wrench



● Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3317-24	24	160	350	3317-65	65	330	2600
3317-27	27	180	450	3317-70	70	350	3200
3317-30	30	200	580	3317-75	75	370	4400
3317-32	32	200	560	3317-80	80	385	4750
3317-36	36	220	780	3317-90	90	420	6800
3317-41	41	240	900	3317-100	100	435	7750
3317-46	46	250	1250	3317-110	110	455	9200
3317-50	50	270	1650	3317-120	120	485	10500
3317-55	55	295	2150	3317-130	130	520	12000
3317-60	60	317	2300				

## No.3318 Offset Slogging Box Wrench (American Type)



● Die Forged

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3318-22	22	240	900	22	22
3318-24	24	240	900	24	24
3318-27	27	270	1200	27	27
3318-30	30	280	1400	30	30
3318-32	32	290	1600	32	32
3318-36	36	300	1800	36	36
3318-38	38	300	1700	38	38
3318-41	41	320	2000	41	41
3318-46	46	340	2600	46	46
3318-50	50	350	3000	50	50
3318-55	55	360	3900	55	55
3318-60	60	375	4100	60	60
3318-65	65	390	4200	65	65
3318-70	70	400	5100	70	70
3318-75	75	420	5500	75	75
3318-80	80	440	6900	80	80
3318-85	85	460	7330	85	85
3318-90	90	480	8800	90	90
3318-95	95	480	8800	95	95
3318-100	100	515	10900	100	100
3318-105	105	515	10900	105	105
3318-110	110	550	12100	110	110
3318-115	115	550	12100	115	115
3318-120	120	585	15200	120	120
3318-125	125	585	15100	125	125
3318-130	130	620	17800	130	130
3318-135	135	620	17650	135	135

## No.3318A Offset Slogging Box Wrench (American Type)



- Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3318A-27	27	250	630	3318A-75	75	338	3300
3318A-30	30	256	740	3318A-80	80	348	3700
3318A-32	32	260	770	3318A-85	85	355	4000
3318A-36	36	270	1040	3318A-90	90	360	4230
3318A-41	41	278	1240	3318A-95	95	365	4600
3318A-46	46	287	1650	3318A-100	100	375	4900
3318A-50	50	296	1730	3318A-105	105	385	6500
3318A-55	55	303	2050	3318A-110	110	400	6500
3318A-60	60	315	2330	3318A-115	115	415	7200
3318A-65	65	322	2640	3318A-120	120	430	8000
3318A-70	70	325	2875				

## No.3320 Bar, Pinch



- Die Forged

Number	Size mm	g	Number	Size mm	g
3320-1002	16*300	470	3320-1012	24*800	2680
3320-1004	16*400	630	3320-1014	26*900	3750
3320-1006	18*500	950	3320-1016	28*1000	4830
3320-1008	20*600	1340	3320-1018	30*1000	5500
3320-1010	22*700	1960	3320-1020	32*1200	7600

## No.3321 Wrench, Hook



- Die Forged DIN 1810

Number	Size mm	L mm	g
3321-1002	30-32	136	60
3321-1004	34-36	170	90
3321-1006	40-42	170	100
3321-1008	45-50	206	150
3321-1010	52-55	206	160
3321-1012	58-62	242	210
3321-1014	68-75	242	250
3321-1016	80-90	280	370
3321-1018	95-100	280	410
3321-1020	110-115	334	700
3321-1022	120-130	334	750
3321-1024	135-145	383	1050

## No.3319 Giant Adjustable Wrench



- Die Forged

Number	Size inch	L inch	g
3319-1002	1-3/8--2-7/8	24	4450
3319-1004	2-3/4--4-3/4	36	13000

## No.3319A Wrench, Single Box Convex



- Die Forged

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3319A-17	17	140	170	3319A-55	55	370	2710
3319A-19	19	155	225	3319A-60	60	390	3120
3319A-22	22	180	290	3319A-65	65	410	3600
3319A-24	24	200	410	3319A-70	70	430	4450
3319A-27	27	225	550	3319A-75	75	450	5110
3319A-30	30	250	820	3319A-80	80	470	5660
3319A-32	32	270	930	3319A-85	85	490	6390
3319A-36	36	290	1100	3319A-90	90	500	7640
3319A-41	41	310	1530	3319A-95	95	510	8450
3319A-46	46	330	1800	3319A-100	100	525	9160
3319A-50	50	350	2280				



## No.3321A Hook Wrench, Adjustable



- Die Forged

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3321A-1002	19-50	162	110	50	162
3321A-1004	32-75	205	225	50	205
3321A-1006	50-120	288	450	40	288
3321A-1008	115-170	310	580	30	310

## No.3321B Hook Wrench With Pin



- Die Forged DIN 1810

Number	Size mm	L mm	g
3321B-1002	12-14	116	12
3321B-1004	16-18	116	15
3321B-1006	20-22	125	22
3321B-1008	25-28	139	32
3321B-1010	30-32	136	50
3321B-1012	34-36	171	90
3321B-1014	40-42	171	100
3321B-1016	45-50	207	150
3321B-1018	52-55	207	160
3321B-1020	58-62	243	230
3321B-1022	68-75	243	250
3321B-1024	80-90	281	370
3321B-1026	95-100	281	410
3321B-1028	110-115	333	700

## No.3321C Hook Wrench, Adjustable



- Die Forged

Number	Size mm	L mm	g
3321C-1002	20-42	162	100
3321C-1004	45-90	250	394
3321C-1006	95-165	310	580

## No.3321D Hook Wrench With Pin, Adjustable



- Die Forged

Number	Size mm	L mm	g
3321D-1004	20-35/2.5	150	90
3321D-1006	22-35/3	150	90
3321D-1008	35-60/4	170	120
3321D-1010	35-60/5	170	120
3321D-1012	60-90/5	250	340
3321D-1014	60-90/5.5	250	340

## No.3321E Hook Wrench, Adjustable



- Die Forged

Number	Size mm	L mm	d mm	g
3321E-1002	18-40	150	4	90
3321E-1004	40-80	220	5	255
3321E-1006	80-125	295	6	625
3321E-1008	125-200	405	8	1550

## No.3322 Valve Spanner with red handle



- Die Forged

Number	Size inch	L mm	g
3322-1002	2-7	215	230
3322-1004	8-15	400	1550
3322-1006	16-20	490	1960
3322-1008	16-20	800	2700





## No.3324 Punch, Machinists<sup>P</sup>



- Die Forged

Number	Size mm	L mm	g
3324-1002	16*300	300	470
3324-1004	16*400	400	630
3324-1006	18*500	500	1000
3324-1008	20*600	600	1480
3324-1010	22*700	700	2080
3324-1012	24*800	800	2840
3324-1014	26*900	900	3680
3324-1016	28*1000	1000	4600
3324-1018	30*1000	1000	5500
3324-1020	32*1200	1200	7600

## No.3322A Valve Spanner with red handle



- Die Forged

Number	K inch	D inch	L inch	g
3322A-1002	1-3/8	1-1/2	21-3/8	1350

## No.3322B Valve Spanner with red handle



- Die Forged

Number	Size mm	L mm	g
3322B-1002	12.5-18.8	240	160
3322B-1004	25-80	285	260
3322B-1006	50-150	325	625
3322B-1008	125-250	420	1050
3322B-1010	250-400	555	1650
3322B-1012	350-900	765	2250

## No.3323 Chisel, Flat



- Die Forged

Number	Size mm	L mm	g
3323-1002	16*160	160	250
3323-1004	18*180	180	340
3323-1006	20*160	160	360
3323-1008	22*180	180	490
3323-1010	24*180	180	610
3323-1012	25*250	250	960
3323-1014	27*300	300	1350
3323-1016	30*300	300	1660
3323-1018	35*500	500	3770

## No.3325 Wrench, Hex Key



- Die Forged

Number	Size mm	L mm	g
3325-22	22	187	1000
3325-24	24	192	1400
3325-27	27	213	1770
3325-30	30	255	2500
3325-32	32	286	3120
3325-36	36	328	4000
3325-38	38	348	4700
3325-41	41	380	5700
3325-46	46	413	7000
3325-50	50	445	9550
3325-55	55	457	11200
3325-60	60	470	14050
3325-65	65	482	15300
3325-70	70	495	16700





## No.3326 Valve Handle with red handle



● Die Forged

Number	Size mm	⚖ g	Q'ty Carton	⚖ Gw kg
3326-1002	45*350	510	10	6
3326-1004	50*400	800	10	8.8
3326-1006	55*450	940	10	10.2
3326-1008	60*500	1170	10	12.3
3326-1010	65*550	1300	10	13.5
3326-1012	70*600	1470	5	15.5
3326-1014	75*650	1560	5	16.5
3326-1016	80*700	1600	5	16.7
3326-1018	85*750	2250	3	14
3326-1020	90*800	2430	3	15
3326-1022	93*850	2530	3	16
3326-1024	96*900	2600	3	16.5
3326-1026	100*950	2800	3	17.5
3326-1028	103*1000	2900	/	/
3326-1030	105*1200	5400	/	/

## No.3326A Valve Handle with red handle



● Die Forged

Number	Size mm	⚖ g
3326A-1002	30*200	250
3326A-1004	35*250	355
3326A-1006	40*300	420
3326A-1008	45*350	555
3326A-1010	50*400	700
3326A-1012	55*450	785
3326A-1014	60*500	1150
3326A-1016	65*550	1220
3326A-1018	70*600	1310
3326A-1020	75*650	1570
3326A-1022	80*700	1785
3326A-1024	85*750	2090
3326A-1026	90*800	2550

## No.3327 Wrench, C



● Die Forged

Number	Size mm	L mm	⚖ g
3327-1002	200	200	350
3327-1004	250	250	600
3327-1006	450	450	2250

## No.3328 Wrench, C



● Die Forged

Number	K mm	L mm	⚖ g
3328-1002	40	450	1300

## No.3329 Punch, Center



Number	Size mm	L mm	⚖ g
3329-1002	22*700	700	2080
3329-1004	24*800	800	2840
3329-1006	26*900	900	3680
3329-1008	28*1000	1000	4600
3329-1010	30*1000	1000	5500
3329-1012	32*1200	1200	7600

## No.3330 Bar, Sliding



● Die Forged

Number	Size mm	L mm	⚖ g
3330-1002	Φ21*400	400	1080

## No.3331 Sliding T Handle



● Die Forged

Number	Size inch	L mm	⚖ g
3331-1002	3/4	400	1280
3331-1004	1	400	1650

## No.3331A L Wrench



Number	Size mm	L mm	⚖ g	Number	Size mm	L mm	⚖ g
3331A-6	6	102	40	3331A-17	17	187	315
3331A-7	7	106	45	3331A-18	18	195	345
3331A-8	8	114	68	3331A-19	19	204	450
3331A-9	9	122	80	3331A-21	21	221	525
3331A-10	10	129	100	3331A-22	22	230	590
3331A-11	11	136	125	3331A-24	24	250	640
3331A-12	12	144	150	3331A-27	27	280	1030
3331A-13	13	152	185	3331A-30	30	310	1300
3331A-14	14	160	205	3331A-32	32	330	1570
3331A-15	15	169	240	3331A-34	34	350	1750
3331A-16	16	178	295	3331A-36	36	370	1835



● Die Forged

## No.3332 1" Dr Socket

Number	Size mm	L mm	⚖ g	Q'ty Carton	⚖ Gw kg
3332-24	24	55	360	20	7.50
3332-27	27	55	380	20	8.00
3332-30	30	60	430	20	9.00
3332-32	32	60	460	20	9.60
3332-36	36	65	525	20	10.90
3332-41	41	70	655	20	13.60
3332-46	46	75	780	20	16.30
3332-50	50	75	890	15	14.00
3332-55	55	80	1050	15	16.40
3332-60	60	85	1320	10	13.80
3332-65	65	90	1475	10	15.50
3332-70	70	90	1625	10	17.00
3332-75	75	95	2155	/	/
3332-80	80	95	2390	/	/

## No.3332A 3/4" Dr Socket

Number	Size mm	L mm	⚖ g	Number	Size mm	L mm	⚖ g
3332A-24	24	55	300	3332A-36	36	60	490
3332A-27	27	55	310	3332A-41	41	65	670
3332A-30	30	55	400	3332A-46	46	65	720
3332A-32	32	60	430	3332A-50	50	70	850

## No.3333 Driver Extension



● Die Forged

Number	Size inch	L mm	⚖ g
3333-1002	3/4	200	910
3333-1004	1	200	1480

## No.3334 Ratchet Wrench



● Die Forged

Number	Size inch	L mm	⚖ g
3334-1002	3/4	160	1570
3334-1004	1	180	3100
3334-1006	1-1/2	225	4600

## No.3335 Ratchet Wrench



● Die Forged

Number	Size inch	L mm	⚖ g
3335-1002	3/4	320	1490
3335-1004	1	550	3220
3335-1006	1-1/2	600	4600



## Impact Socket



● Die Forged DIN 3129

### No.3336 Impact Socket (1-1/2")

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3336-32	32	75	1860	3336-95	95	110	5500
3336-36	36	80	2200	3336-100	100	115	5820
3336-41	41	80	2150	3336-105	105	115	6400
3336-46	46	85	2290	3336-110	110	115	8600
3336-50	50	85	2380	3336-115	115	125	10380
3336-55	55	90	2480	3336-120	120	125	11020
3336-60	60	90	2640	3336-125	125	130	11970
3336-65	65	95	3060	3336-130	130	135	13575
3336-70	70	95	3200	3336-135	135	140	14850
3336-75	75	100	3625	3336-140	140	140	15600
3336-80	80	100	3980	3336-145	145	145	13800
3336-85	85	110	4400	3336-150	150	150	19500
3336-90	90	110	4700				

### No.3337 Impact Socket (1-1/2" Deep)

Number	Size mm	L mm	g	Number	Size mm	L mm	g
3337-41	41	115	3000	3337-90	90	178	7680
3337-46	46	115	3300	3337-95	95	184	8850
3337-50	50	135	3400	3337-100	100	190	9080
3337-55	55	140	3930	3337-105	105	197	13200
3337-60	60	150	4790	3337-110	110	203	14030
3337-65	65	150	5440	3337-115	115	203	10670
3337-70	70	160	6000	3337-120	120	213	19000
3337-75	75	170	6250	3337-125	125	213	20020
3337-80	80	170	6390	3337-130	130	220	22500
3337-85	85	170	7130				

### No.3338 Impact Socket (1")

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3338-30	30	60	750	20	15.70
3338-32	32	60	760	20	15.90
3338-36	36	60	900	20	18.70
3338-41	41	65	940	15	14.60
3338-46	46	70	1300	10	13.50
3338-50	50	75	1500	10	15.60
3338-55	55	75	1680	10	17.80
3338-60	60	85	2100	6	13.00
3338-65	65	85	2170	6	13.45
3338-70	70	90	2500	6	15.50
3338-75	75	90	2780	6	17.30
3338-80	80	90	3000	6	18.60

### No.3338A Impact Socket (3/4")

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3338A-24	24	50	400	20	8.40
3338A-27	27	53	415	20	8.60
3338A-30	30	53	425	20	8.80
3338A-32	32	56	450	16	7.80
3338A-36	36	56	480	16	8.10
3338A-41	41	58	700	12	8.80
3338A-46	46	60	740	12	9.50
3338A-50	50	70	1025	12	13.00

### No.3338B Impact Socket (1" Deep)

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3338B-24	24	100	950	15	14.60
3338B-27	27	100	1000	15	15.60
3338B-30	30	100	1000	15	15.60
3338B-32	32	100	1200	15	18.60
3338B-36	36	100	1200	15	18.80
3338B-38	38	100	1400	10	14.50
3338B-41	41	100	1550	10	16.00
3338B-46	46	100	2120	6	13.30
3338B-50	50	100	2380	6	14.90
3338B-55	55	100	2730	6	16.90
3338B-60	60	100	2800	6	17.20
3338B-65	65	100	2950	6	18.20
3338B-70	70	100	3120	6	19.20
3338B-75	75	100	3600	/	/
3338B-80	80	100	4000	/	/

### No.3338C Impact Socket (3/4" Deep)

Number	Size mm	L mm	g	Q'ty Carton	Gw kg
3338C-17	17	90	570	16	9.45
3338C-19	19	90	580	16	9.10
3338C-22	22	90	600	16	9.90
3338C-24	24	90	720	16	12.00
3338C-27	27	90	720	16	12.00
3338C-30	30	90	780	16	13.20
3338C-32	32	90	875	16	15.30
3338C-34	34	90	950	16	16.00
3338C-36	36	90	1040	16	17.30
3338C-38	38	90	1100	12	16.00
3338C-41	41	90	1200	12	15.50
3338C-46	46	100	1630	12	20.30
3338C-50	50	100	1950	8	16.30

## No.3338D Impact Socket (2-1/2")



Number	Size mm	L mm	⚖ g	Number	Size mm	L mm	⚖ g
3338D-46	46	115	5900	3338D-115	115	160	12900
3338D-50	50	115	6120	3338D-120	120	160	13460
3338D-55	55	115	6120	3338D-125	125	170	14500
3338D-60	60	120	6420	3338D-130	130	170	15400
3338D-65	65	120	6420	3338D-135	135	175	16870
3338D-70	70	125	6830	3338D-140	140	180	18360
3338D-75	75	125	7090	3338D-145	145	185	20190
3338D-80	80	125	6990	3338D-150	150	190	21900
3338D-85	85	135	8160	3338D-155	155	195	24480
3338D-90	90	135	7510	3338D-160	160	200	27500
3338D-95	95	140	9480	3338D-165	165	205	29500
3338D-100	100	145	10500	3338D-170	170	210	31600
3338D-105	105	145	10760	3338D-175	175	210	33900
3338D-110	110	155	12180	3338D-180	180	220	35700

## No.3339 Driver Extension



● Die Forged

Number	C inch	L mm	⚖ g
3339-1002	3/4	200	900
3339-1004	1	200	1400
3339-1006	1	400	3000
3339-1008	1-1/2	250	5200
3339-1010	1-1/2	500	9200



● Die Forged

## No.3339A Sockets For Torque Wrenches 1"

Number	Size mm	L mm	L <sub>1</sub> mm	⚖ g
3339A-19	19	75	21	830
3339A-22	22	75	24	890
3339A-24	24	75	26	920
3339A-27	27	75	28	980
3339A-30	30	75	30	1050
3339A-32	32	75	32	1130
3339A-36	36	75	33	1250

## No.3339B Sockets For Torque Wrenches 3/4"

Number	Size mm	L mm	L <sub>1</sub> mm	⚖ g
3339B-14	14	65	17	450
3339B-17	17	65	19	510
3339B-19	19	65	21	550
3339B-22	22	65	24	610
3339B-24	24	65	26	650
3339B-27	27	65	28	720

## No.3340 Impact Universal Joint



● Die Forged

Number	C inch	L mm	⚖ g
3340-1002	3/4	110	600
3340-1004	1	125	1300
3340-1006	1-1/2	235	5000
3340-1008	2-1/2	333	18000



## No.3341 Adaptor



- Die Forged

Number	F <input type="checkbox"/> inch	M <input type="checkbox"/> inch	L mm	⚖ g
3341-1002	3/4	1/2	55	275
3341-1004	1/2	3/4	50	160
3341-1006	1	3/4	70	810
3341-1008	3/4	1	60	340
3341-1010	1-1/2	1	85	1585
3341-1012	1	1-1/2	85	1165

## No.3341A Impact Adaptor



- Die Forged

Number	F <input type="checkbox"/> inch	M <input type="checkbox"/> inch	L mm	⚖ g
3341A-1002	3/4	1	65	450
3341A-1004	1	3/4	70	700
3341A-1006	1	1-1/2	115	1500
3341A-1008	1-1/2	1	110	3000
3341A-1010	1-1/2	2-1/2	140	5700
3341A-1012	2-1/2	1-1/2	140	7300



## No.3342 Chain



- Die Forged
- Steel Chain, Stainless Steel

Number	Φ mm	⚖ g/m
3342-1002	6	850
3342-1004	8	1360

## No.3343 Universal Joint



- Die Forged

Number	C inch	L mm	⚖ g
3343-1002	1	110	1500
3343-1004	1-1/2	200	4200



**DIN STANDARD**

**J<sub>2</sub>**





## No.4001 Pliers, Diagonal Cutting



● Die Forged

Number	L inch	L mm	⚖ g
4001-1002	6	150	190
4001-1004	8	200	285

## No.4002 Pliers, Lineman



● Die Forged

Number	L inch	L mm	⚖ g
4002-1002	6	150	150
4002-1004	8	200	350

## No.4003 Pliers, Snipe Nose



● Die Forged

Number	L inch	L mm	⚖ g
4003-1002	6	150	175
4003-1004	8	200	300

## No.4101 Double Ratchet Wrench



● Die Forged

Number	S <sub>1</sub> mm	S <sub>2</sub> mm	L mm	⚖ g
4101-1417	14	17	270	300
4101-1719	17	19	312	450
4101-1922	19	22	312	450
4101-2224	22	24	355	670
4101-2427	24	27	355	670
4101-2730	27	30	395	920
4101-3032	30	32	395	920
4101-3236	32	36	435	1380
4101-3641	36	41	455	1830

## No.4102 Single Ratchet Wrench



● Die Forged

Number	S mm	L mm	⚖ g
4102-17	17	270	280
4102-19	19	312	425
4102-22	22	312	425
4102-24	24	355	630
4102-27	27	355	630
4102-30	30	395	870
4102-32	32	395	870
4102-36	36	435	1310
4102-41	41	455	1750



## No.4103 Motor Wrench



● Die Forged

Number	S mm	L mm	⚖ g
4103-1002	62	230	520
4103-1004	78	280	780
4103-1006	82	375	1300

## No.4104 Wrench Adjustable



● Die Forged

Number	Size mm	K <sub>max</sub> mm	⚖ g
4104-1002	100	13	50
4104-1004	150	19	130
4104-1006	200	24	255
4104-1008	250	29	415
4104-1010	300	34	735
4104-2012	375	45	1220
4104-2014	450	55	1750
4104-2016	600	62	2920

## No.4105 Wrench Adjustable



● Die Forged

Number	Size mm	K <sub>max</sub> mm	⚖ g
4105-1002	150	19	216
4105-1004	200	24	255
4105-1006	250	30	410
4105-1008	300	35	646



## No.4106 Wrench, Pipe



● Die Forged

Number	Size mm	K <sub>max</sub> mm	⚖ g
4106-1002	150	20	240
4106-1004	200	25	410
4106-1006	250	30	720
4106-1008	300	40	1000
4106-1010	350	50	1390
4106-2012	450	60	2160
4106-2014	600	75	3500
4106-2016	900	85	6000
4106-2018	1200	100	10500

## No.4107 Wrench, Pipe With Dipped Handle



● Die Forged

Number	Size mm	K <sub>max</sub> mm	⚖ g
4107-1002	150	20	240
4107-1004	200	25	410
4107-1006	250	30	720
4107-1008	300	40	1000
4107-1010	350	50	1390
4107-2012	450	60	2160
4107-2014	600	75	3500
4107-2016	900	85	6000

## No.4201 Sledge Hammer with red Wooden Handle



● Die Forged

Number	Size lb	L mm	⚖ g
4201-1002	2	258	1140
4201-1004	3	297	1330
4201-1006	4	385	2000
4201-1008	8	894	4000
4201-1010	10	894	5000
4201-2012	12	894	5870
4201-2014	14	894	6750
4201-2016	16	894	7500
4201-2018	18	894	9000
4201-2020	20	894	9750



## No.4202 Sledge Hammer With Plastic Coating Handle



Number	Size lb	L mm	⚖ g
4202-1002	2	258	1140
4202-1004	3	297	1330
4202-1006	4	385	2000
4202-1008	8	894	4000
4202-1010	10	894	5000
4202-2012	12	894	5870
4202-2014	14	894	6750
4202-2016	16	894	7500
4202-2018	18	894	9000
4202-2020	20	894	9750

## No.4205 American Type Ball Pein Hammer With Plastic Coating Handle



Number	Size lb	L mm	⚖ g
4205-1002	1/4	320	220
4205-1004	1/2	320	370
4205-1006	3/4	320	530
4205-1008	1	320	690
4205-1010	1.5	320	1000
4205-2012	2	340	1200
4205-2014	2.5	340	1440
4205-2016	3	340	1730

## No.4203 American Type Claw Hammer With Plastic Coating Handle



Number	Size oz	L mm	⚖ g
4203-1002	8	320	350
4203-1004	12	320	490
4203-1006	16	320	730
4203-1008	20	340	870
4203-1010	24	340	1380

## No.4206 Roofing Hammer With Plastic Coating Handle



Number	Size	L mm	⚖ g
4206-1002	500	340	660
4206-1004	600	340	770

## No.4204 British Type Claw Hammer With Plastic Coating Handle



Number	Size mm	L mm	⚖ g
4204-1002	21	320	350
4204-1004	23	320	490
4204-1006	25	320	730
4204-1008	27	340	870
4204-1010	29	340	1380

## No.4301 Wrench, Double Open End



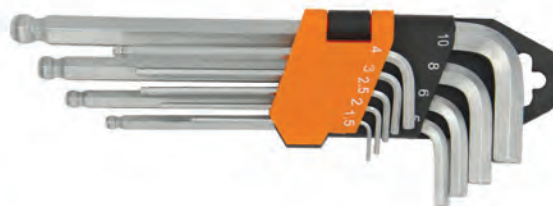
Tools	Description mm
4301-9	6*7, 8*10, 10*12, 12*14, 14*17, 16*18, 17*19, 19*22, 21*23
4301-12	6*7, 8*9, 10*11, 12*13, 14*15, 16*17, 18*19, 20*22, 21*23, 24*27, 25*28, 30*32
4301-13	6*7, 8*10, 10*12, 11*13, 12*14, 14*17, 16*18, 17*19, 19*22, 21*23, 22*24, 24*27, 30*32

## No.4302 Wrench, Double Box Offset



Tools	Description mm
4302-9	6*7, 8*10, 10*12, 12*14, 14*17, 16*18, 17*19, 19*22, 21*23
4302-12	6*7, 8*9, 10*11, 12*13, 14*15, 16*17, 18*19, 20*22, 21*23, 24*27, 25*28, 30*32
4302-13	6*7, 8*10, 10*12, 11*13, 12*14, 14*17, 16*18, 17*19, 19*22, 21*23, 22*24, 24*27, 30*32

## No.4304 9pc Short Arm Ball Point Hex Key Set



Tools	Description mm
4304-9	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

## No.4305 Short Arm Hex Key Set



Tools	Description mm
4305-7	3, 4, 5, 6, 8, 10, 12

## No.4303 Wrench, Combination



Tools	Description mm
4303-9	8, 10, 11, 12, 13, 14, 15, 17, 19
4303-11	8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 22
4303-13	6, 8, 10, 12, 14, 16, 17, 19, 22, 24, 27, 30, 32

## No.4306 Slotted Screwdriver



Tools	Description
4306-9	⌀ 3*75, 6*38, 5*150, 6*100, 8*200mm ⊕ PH0*75, PH1*150, PH2*38, PH2*100mm



## No.4307 32pcs 1/2" Dr.Socket Wrench Set



Tools	Description
6pt Socket	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32mm
12pt Socket	10, 12, 13, 14, 17, 19mm
Quick Release Ratchet Handle	1/2"
Sliding T-bar	1/2"
Universal Joint	1/2"
Spark Plug	16, 21mm
Extension Bars	5" F, 10"

## No.4309 26pcs 1/2" Dr.Socket Wrench Set



Tools	Description
Socket	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32mm
Spark Plug Socket	16, 21mm
Quick Release Ratchet Handle	1/2"
Sliding T-bar	1/2"
Universal Joint	1/2"
Extension Bars	3" , 5" , 10"

## No.4310 10pcs 1/2" Dr.Socket Wrench Set



Tools	Description
Socket	8, 10, 12, 14, 17, 19, 21, 24mm
L-Hand	1/2"
3-Way Adapter	3/8" F*1/2" M

## No.4308 27pcs 1/2" Dr.Socket Wrench Set



Tools	Description
Socket	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32mm
Spark Plug Socket	16, 21mm
Quick Release Ratchet Handle	1/2"
Flex Handle	10"
Universal Joint	1/2"
Extension Bars	3" , 5" , 10"
3-Way Adapter	3/8" F*1/2" M



### No.4311 33pcs 1/4" Dr.Socket Wrench Set



Tools	Description
Socket	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm
Hex Key	1.5, 2, 2.5mm
Bit Socket	Slotted 3, 4, 5, 6, 7mm Philips PH1, PH2 Hex 3, 4, 5, 6, 8mm
Quick Release Ratchet Handle	1/4"
Sliding T-bar	1/4"
Universal Joint	1/4"
Extension Bars	2", 4"
Spinner Handle	1/4"

### No.4313 22pcs 20mm Dr.Socket Wrench Set



Tools	Description
Socket	36, 38, 41, 46, 50, 54, 55, 58, 60, 63, 65, 67, 70, 71, 75, 77, 80mm
3-Way Adapter	100mm, 200mm
Ratchet Handle	475mm
Sliding T-bar	
Extension Bars	125mm, 400mm

### No.4312 38pcs 3/8" Dr.Socket Wrench Set



Tools	Description
Socket	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22mm
Hex Key	1.5, 2, 2.5mm
1/4" Shank Bit Socket	Slotted 3, 4, 5mm Philips PH0, PH1, PH2 Hex 3, 4, 5, mm Torx T10, T15, 20 Square S1, S2, S3
Quick Release Ratchet Handle	3/8"
Spinner Handle	1/4"
Bit adapter	1/4"
Long Nose Pliers	5"
Stubby Adjustable Wrench	6"

### No.4314 26pcs 20mm + 25mm Dr.Socket Wrench Set



Tools	Description
Socket 20mm	21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 36, 38, 41, 46, 50mm
Socket 25mm	55, 60, 65mm
Quick Release Ratchet Handle	20mm
Extension Bars	200mm
Universal Joint	20mm
Sliding T-bar	20mm
3-Way Adapter	20mm F*25mmM
Adding Force	



## No.4401 Pliers, Diagonal Cutting



- Die Forged
- DIN ISO 5749 Made in Germany

Number	Size inch	L mm	g
4401-1002	6-1/4	160	200

## No.4405 Injection Bent Pliers, Diagonal Cutting



- Die Forged
- DIN ISO 5743 Made in Germany

Number	Size inch	L mm	g
4405-1002	7	175	265

## No.4402 Pliers, Lineman



- Die Forged
- DIN ISO 5746 Made in Germany

Number	Size inch	L mm	g
4402-1002	8	200	330

## No.4406 Injection Bent Pliers, Lineman



- Die Forged
- DIN ISO 5743 Made in Germany

Number	Size inch	L mm	g
4406-1002	7	175	285

## No.4403 Pliers, Snipe Nose



- Die Forged
- DIN ISO 5745 Made in Germany

Number	Size inch	L mm	g
4403-1002	8	200	215

## No.4407 Injection Bent Pliers, Snipe Nose



- Die Forged
- DIN ISO 5743 Made in Germany

Number	Size inch	L mm	g
4407-1002	8-1/2	215	290

## No.4404 Pliers, Slip Joint



- Die Forged
- DIN ISO 8976 Made in Germany

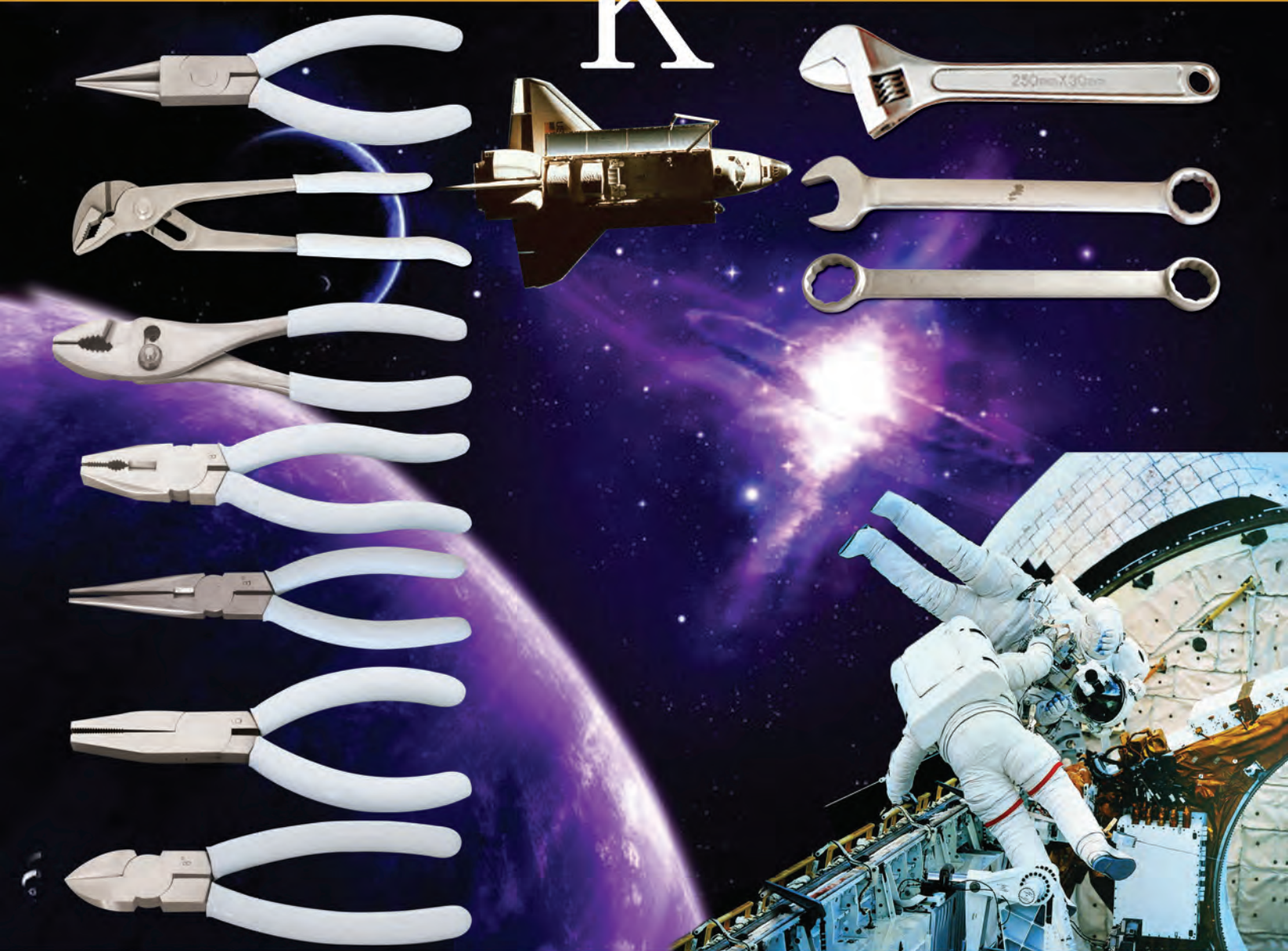
Number	Size inch	L mm	g
4404-1002	10	250	350





# Titanium Tools

## K



*non magnetic corrosion resistant*

*lightweight hard durable*

### **Titanium tools**

Hardness: HRC33-43

Breaking: MPA $\delta \geq 850$

Extensibility:  $\delta \geq 10\%$

Density:  $\rho = 4.5 \text{ g/cm}^3$



**No.5101 Wrench, Adjustable**



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- It is suitable for different sizes of fasteners by adjusting the opening size.

Number	L mm	K <sub>max</sub> mm	g
5101-1002	150	18	80
5101-1004	200	24	170
5101-1006	250	30	260
5101-1008	300	36	435

**No.5102 Wrench, Pipe(American Type)**



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Used for turning or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	g
5102-1002	200	25	310
5102-1004	250	30	520
5102-1006	300	40	790
5102-1008	350	50	950

**No.5102A Wrench, Pipe(American Type)**



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Used for turning or assembling pipes and fittings.

Number	L mm	K <sub>max</sub> mm	g
5102A-1002	450	60	1270
5102A-1004	600	75	1950
5102A-1006	900	85	3100

**No.5103 Wrench, Combination**



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Both ends generally fit the same size of bolts and nuts.

Number	S mm	L mm	g
5103-6	6	105	13
5103-8	8	120	20
5103-10	10	135	30
5103-12	12	150	40
5103-14	14	175	55
5103-17	17	195	90
5103-19	19	215	125
5103-22	22	245	170
5103-24	24	265	200
5103-27	27	290	280
5103-30	30	320	400
5103-32	32	340	480

**No.5104 Wrench, Construction With Pin**



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- The sharp tail has a variety of uses.

Number	S mm	L mm	g
5104-17	17	220	60
5104-19	19	240	80
5104-22	22	260	120
5104-24	24	280	145
5104-27	27	300	200
5104-30	30	320	235

**No.5104A Wrench, Construction With Pin**



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- The sharp tail has a variety of uses.

Number	S mm	L mm	g
5104A-17	17	220	60
5104A-19	19	240	80
5104A-22	22	260	120
5104A-24	24	280	145
5104A-27	27	300	200
5104A-30	30	320	235

## No.5105 Wrench, Single Open End



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts, lightweight but more efficient

Number	S mm	L mm	⚖ g
5105-6	6	75	11
5105-8	8	95	14
5105-10	10	105	19
5105-12	12	125	25
5105-14	14	140	35
5105-17	17	160	50
5105-19	19	170	60
5105-22	22	195	95
5105-24	24	220	120
5105-27	27	240	170
5105-30	30	260	220
5105-32	32	260	260
5105-36	36	310	350

## No.5107 Wrench, Double Open End

DIN 3110



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts.

Number	S mm	L mm	⚖ g
5107-0607	6*7	120	13
5107-0709	7*9	135	20
5107-0810	8*10	145	25
5107-1012	10*12	165	40
5107-1214	12*14	180	55
5107-1417	14*17	195	70
5107-1719	17*19	210	95
5107-1922	19*22	225	130
5107-2224	22*24	250	170
5107-2427	24*27	270	230
5107-2730	27*30	290	310
5107-3032	30*32	310	430

## No.5106 Wrench, Striking Open

DIN133



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used with a hammer to remove or tighten large bolts and nuts.

Number	S mm	L mm	⚖ g
5106-17	17	125	85
5106-19	19	125	80
5106-22	22	135	95
5106-24	24	150	135
5106-27	27	175	230
5106-30	30	190	260
5106-32	32	190	260
5106-36	36	200	370

## No.5108 Wrench, Double Box Offset

DIN 838



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts, suitable for use where space is narrow or deep concavity.

Number	S1*S2 mm	L mm	⚖ g
5108-0810	8*10	190	40
5108-1012	10*12	200	48
5108-1214	12*14	220	58
5108-1417	14*17	255	85
5108-1719	17*19	280	100
5108-1922	19*22	300	115
5108-2224	22*24	330	232
5108-2427	24*27	340	260
5108-2730	27*30	350	290
5108-3032	30*32	370	377

## No.5106A Wrench, Striking Open

DIN133



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used with a hammer to remove or tighten large bolts and nuts.

Number	S mm	L mm	⚖ g
5106A-17	17	125	85
5106A-19	19	125	80
5106A-22	22	135	95
5106A-24	24	150	135
5106A-27	27	175	230
5106A-30	30	190	260
5106A-32	32	190	260
5106A-36	36	200	370



## No.5109 Wrench, Double Flat Box



DIN 837

- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts, suitable for use where space is limited instead of double end open spanner.

Number	S1*S2 mm	L mm	⚖ g
5109-0709	7*9	115	15
5109-0810	8*10	115	15
5109-1012	10*12	140	24
5109-1214	12*14	145	30
5109-1417	14*17	165	50
5109-1719	17*19	185	60
5109-1922	19*22	200	95
5109-2224	22*24	215	105
5109-2427	24*27	255	145
5109-2730	27*30	280	185
5109-3032	30*32	295	220

## No.5111 Wrench, Single Box



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts

Number	S mm	L mm	⚖ g
5111-7	7	110	32
5111-8	8	110	30
5111-10	10	120	35
5111-12	12	130	42
5111-14	14	140	55
5111-17	17	155	65
5111-19	19	170	77
5111-22	22	190	115
5111-24	24	215	145
5111-27	27	230	160
5111-30	30	255	225
5111-32	32	265	255
5111-36	36	295	300

## No.5110 Wrench, Construction



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts

Number	S mm	L mm	⚖ g
5110-8	8	210	65
5110-10	10	230	70
5110-12	12	250	88
5110-14	14	270	105
5110-17	17	310	135
5110-19	19	330	165
5110-22	22	350	185
5110-24	24	370	260
5110-27	27	400	320
5110-30	30	430	380
5110-32	32	430	370
5110-36	36	460	525

## No.5111A Wrench, Single Box



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts

Number	S mm	L mm	⚖ g
5111A-7	7	110	32
5111A-8	8	110	30
5111A-10	10	120	35
5111A-12	12	130	42
5111A-14	14	140	55
5111A-17	17	155	65
5111A-19	19	170	77
5111A-22	22	190	115
5111A-24	24	215	145
5111A-27	27	230	160
5111A-30	30	255	225
5111A-32	32	265	255
5111A-36	36	295	300

## No.5110A Wrench, Construction



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen bolts and nuts

Number	S mm	L mm	⚖ g
5110A-8	8	210	65
5110A-10	10	230	70
5110A-12	12	250	88
5110A-14	14	270	105
5110A-17	17	310	135
5110A-19	19	330	165
5110A-22	22	350	185
5110A-24	24	370	260
5110A-27	27	400	320
5110A-30	30	430	380
5110A-32	32	430	370
5110A-36	36	460	525

## No.5112 Wrench, Striking Box

DIN 7444



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- For loosening of nuts and bolts where impact or shock loading is required. These are used with hammer.

Number	S mm	L mm	g
5112-17	17	145	85
5112-19	19	145	80
5112-22	22	155	135
5112-24	24	165	130
5112-27	27	175	175
5112-30	30	185	255
5112-32	32	185	245
5112-36	36	205	315

## No.5113 Offset Slogging Box Wrench(American Type)



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to tighten or loosen large bolts and nuts.

Number	S mm	L mm	g
5113-19	19	220	400
5113-22	22	240	522
5113-24	24	240	522
5113-27	27	270	695
5113-30	30	280	815
5113-32	32	290	928

## No.5112A Wrench, Striking Box

DIN 7444



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- For loosening of nuts and bolts where impact or shock loading is required. These are used with hammer.

Number	S mm	L mm	g
5112A-17	17	145	85
5112A-19	19	145	80
5112A-22	22	155	135
5112A-24	24	165	130
5112A-27	27	175	175
5112A-30	30	185	255
5112A-32	32	185	245
5112A-36	36	205	315

## No.5114 Wrench, Hex Key



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to fasten or remove socket head cap screws

Number	S mm	L mm	H mm	g
5114-3	3	59	25	4
5114-4	4	65	30	8
5114-5	5	79	32	12
5114-6	6	85	37	15
5114-7	7	88	43	18
5114-8	8	92	44	24
5114-9	9	97	44	32
5114-10	10	110	45	42
5114-11	11	119	48	58
5114-12	12	130	52	76
5114-13	13	140	54	100
5114-14	14	150	58	115
5114-15	15	156	60	145
5114-16	16	162	63	170
5114-17	17	168	65	205

## No.5115 Wrench, Hex Key With Ball



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used to fasten or remove socket head cap screws

Number	S mm	L mm	H mm	g
5115-3	3	63	20	3
5115-4	4	70	25	7
5115-5	5	80	28	12
5115-6	6	90	32	17
5115-7	7	95	34	28
5115-8	8	100	36	32
5115-9	9	106	38	47
5115-10	10	112	40	55
5115-11	11	118	42	78
5115-12	12	125	45	90



**No.5116 Wrench, T-type Sliding Hex**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- To fasten or remove socket head cap screws in deep concavity space. or matched with socket.

Number	S mm	L mm	H mm	⚖ g
5116-8	8	150	100	140
5116-10	10	150	110	150
5116-12	12	170	130	160
5116-14	14	170	140	220
5116-17	17	190	150	255
5116-19	19	220	160	340

**No.5202 Pliers, Lineman**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used for cutting and crimping metal or wire.

Number	L mm	⚖ g
5202-1002	150	220
5202-1004	200	290

**No.5201 Pliers, Adjustable Combination**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Serrated teeth with sliding pivot joint.

Number	L mm	K mm	⚖ g
5201-1002	150	8	125
5201-1004	200	13	180
5201-1006	250	16	280

**No.5203 Pliers, Diagonal Cutting**

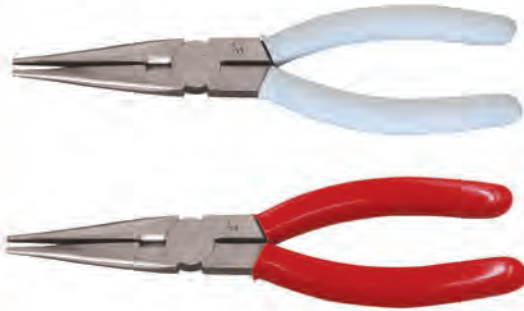


- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Mostly used for cutting wire.

Number	L mm	⚖ g
5203-1002	150	180
5203-1004	200	260



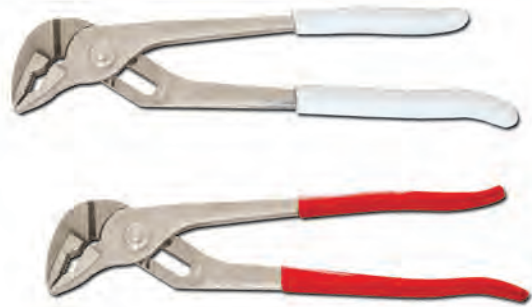
## No.5204 Pliers,Snipe Nose



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Used for cutting wire or holding tiny components.

Number	L mm	g
5204-1002	150	120
5204-1004	200	200

## No.5206 Pliers,Water Pump



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Used for turning and holding bolts and nuts, gripping irregularly shaped objects, and clamping materials.

Number	L mm	K mm	g
5206-1002	150	16	75
5206-1004	200	25	100
5206-1006	250	32	220

## No.5205 Pliers,Groove Joint



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Used for turning and holding bolts and nuts, gripping irregularly shaped objects, and clamping materials.

Number	L mm	K mm	g
5205-1002	150	16	80
5205-1004	200	25	120
5205-1006	250	45	270

## No.5207 Tweezers,Neat Tips



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Pick up small objects like metal particles.

Number	L mm	g
5207-1002	150	20
5207-1004	200	28

## No.5208 Crimping Tool,Insulated Cable Connectors



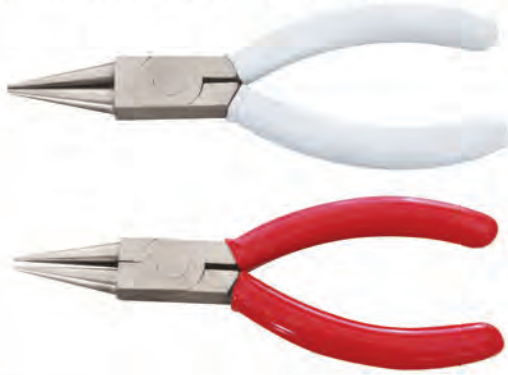
- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Easily strips and cuts solide or stranded wire.

Number	Size inch	L mm	g
5208-1002	8	200	130





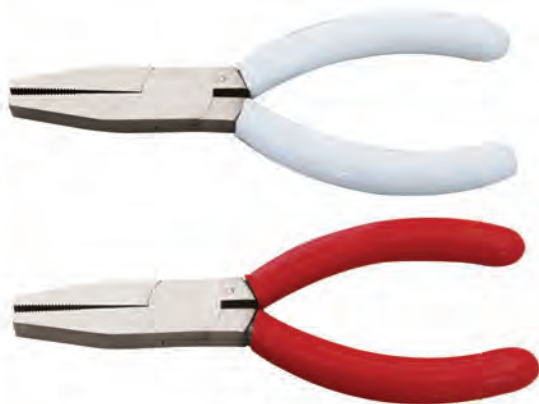
**No.5209 Round Nose Pliers**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- The tapered, conical jaws for bending and shaping wire.

Number	Size inch	L mm	⚖ g
5209-1002	6	150	100

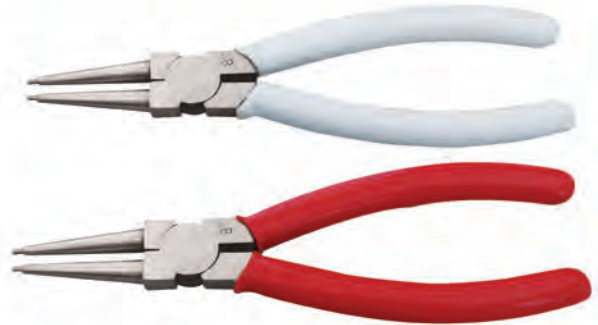
**No.5210 Flat Nose Pliers**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used for holding and crimping metal or wire.

Number	Size inch	L mm	⚖ g
5210-1002	6	150	110
5210-1004	8	200	150

**No.5211 Pliers, Snap Ring-Internal**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Install and remove snap rings.

Number	Size inch	L mm	⚖ g
5211-1002	8	200	160
5211-1004	10	250	230

**No.5212 Pliers, Snap Ring-External**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Install and remove snap rings.

Number	Size inch	L mm	⚖ g
5212-1002	8	200	160
5212-1004	10	250	230



## No.5213 Locking Pliers



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Single-handed operation with quick-release lever, adjusting screw and integrated wire cutter.

Number	Size inch	L mm	D mm	g
5213-1002	10	225	40	265



## No.5301 Socket (1/2")

Number	S mm	L mm	g
5301-6	6	40	46
5301-8	8	40	47
5301-10	10	40	48
5301-12	12	40	50
5301-14	14	40	52
5301-17	17	40	55
5301-19	19	42	60
5301-22	22	43	65

## No.5301A Socket (1/4")

Number	S mm	L mm	g
5301A-4	4	25	10
5301A-5	5	25	10
5301A-6	6	25	10
5301A-7	7	25	10
5301A-8	8	25	10
5301A-9	9	25	12
5301A-10	10	25	12
5301A-11	11	25	15
5301A-12	12	26	17
5301A-13	13	26	17
5301A-14	14	26	20
5301A-15	15	27	22
5301A-16	16	27	22
5301A-17	17	27	28
5301A-18	18	27	28
5301A-19	19	27	28

- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- It suitable for use where space is narrow or deep concavity to tighten or loosen bolts and nuts.

## No.5301B Socket (3/8")

Number	S mm	L mm	g
5301B-5	5	28	20
5301B-6	6	28	20
5301B-7	7	28	20
5301B-8	8	28	20
5301B-9	9	28	20
5301B-10	10	32	28
5301B-11	11	32	28
5301B-12	12	32	28
5301B-13	13	32	28
5301B-14	14	32	28
5301B-15	15	32	29
5301B-16	16	32	32
5301B-17	17	32	35
5301B-19	19	32	38
5301B-20	20	32	42

## No.5301C Socket (3/4")

Number	S mm	L mm	g
5301C-17	17	50	135
5301C-19	19	50	135
5301C-21	21	55	150
5301C-22	22	55	150
5301C-23	23	55	170
5301C-24	24	55	170
5301C-26	26	55	170
5301C-27	27	55	170
5301C-28	28	55	185
5301C-29	29	55	190
5301C-30	30	60	225
5301C-31	31	60	235
5301C-32	32	60	255
5301C-34	34	60	265
5301C-36	36	60	280



## No.5302 Impact Socket (3/4" )



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Work with all kinds of electrical and impact tools.

Number	S mm	L mm	g	Number	S mm	L mm	g
5302-17	17	50	210	5302-27	27	50	265
5302-19	19	50	220	5302-30	30	55	280
5302-22	22	50	230	5302-32	32	55	300
5302-24	24	50	250				

## No.5303 Universal Joint



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- It is commonly used in shafts that transmit rotary motion.

Number	C inch	L mm	g
5303-1002	1/2	80	115
5303-1004	3/4	110	300

## No.5304 Hinged Handle



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- This tool allows the user to impart considerable torque to fasteners, especially in cases where corrosion has resulted in a difficult-to-loosen part.

Number	C inch	L mm	g
5304-1002	3/8	190	138
5304-1004	1/2	250	210

## No.5305 Ratchet Wrench



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Reversing the direction of operation in situ without detaching the sockets. It has built in mechanisms for both right and left operation.

Number	C inch	L mm	g
5305-1002	3/8	200	140
5305-1004	1/2	245	415
5305-1006	3/4	320	945

## No.5306 Sliding T Type Wrench



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight,Non-magnetic, Strong and Durable.
- Tighten or loosen hex bolts and nuts directly.

Number	S mm	L mm	g	Number	S mm	L mm	g
5306-6	6	120	80	5306-14	14	150	145
5306-8	8	120	85	5306-17	17	170	175
5306-10	10	130	90	5306-19	19	180	300
5306-12	12	140	115	5306-22	22	190	435



## No.5307 Driver Extension



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Tighten or loosen hex bolts and nuts directly.

Number	C inch	L mm	⚖ g
5307-1002	3/8	75	55
5307-1004	1/2	125	145
5307-1006	1/2	250	290
5307-1008	3/4	200	520

## No.5310 Adaptor



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used as a convertor to permit use of sockets and driving tools to different drive sizes.

Number	F□ inch	M■ inch	L mm	⚖ g
5310-1002	3/8	1/4	26	17
5310-1004	1/4	3/8	22	12
5310-1006	1/2	3/8	34	44
5310-1008	3/8	1/2	34	33
5310-1010	3/4	1/2	55	180
5310-1012	1/2	3/4	50	95

## No.5303 Wrench, Socket L-Type



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Tighten or loosen hex bolts and nuts directly.

Number	S mm	L mm	H mm	⚖ g
5308-6	6	120	29	55
5308-8	8	145	33	85
5308-10	10	168	37	110
5308-12	12	215	42	120
5308-14	14	245	45	165
5308-17	17	260	51	270
5308-19	19	270	55	310

## No.5311 Screwdriver Socket



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- It is used as a slotted screwdriver when matched with transmission accessories.

Number	C inch	L mm	H mm	B mm	⚖ g
5311-1002	1/2	52	2	13	102

## No.5309 Speed Handle



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used instead of a ratchet in narrow space.

Number	C inch	L mm	⚖ g
5309-1002	3/8	300	250
5309-1004	1/2	390	430

## No.5401 Knife, Common



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Cutting tool, plastic handle.

Number	K mm	L mm	⚖ g
5401-1002	25	230	75
5401-1004	30	250	85
5401-1006	35	260	100



## No.5402 Knife, Putty



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Suitable for scraping or spreading.

Number	K mm	L mm	g
5402-1002	25	200	65
5402-1004	40	200	80
5402-1006	50	200	90
5402-1008	65	200	100

## No.5405 Scraper, Flat



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Scraping tool.

Number	K mm	L mm	g
5405-1002	30	200	165
5405-1004	30	300	255
5405-1006	35	350	325

## No.5403 Knife, Putty



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Suitable for scraping or spreading.

Number	K mm	L mm	g
5403-1002	75	200	110
5403-1004	100	200	135
5403-1006	150	250	210

## No.5406 Chisel, Flat



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Cutting tool using a mallet or hammer

Number	B mm	Φ mm	L mm	g
5406-1002	10	10	120	45
5406-1004	12	12	140	75
5406-1006	14	14	160	115
5406-1008	16	16	160	150
5406-1010	18	18	160	190
5406-1012	20	20	200	290
5406-1014	22	22	200	355

## No.5404 Spatula



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used for mixing and spreading

Number	K mm	L mm	g
5404-1002	30	195	65
5404-1004	50	210	80
5404-1006	75	225	95

## No.5407 Bar, Pinch



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.
- Used for prying, moving, rolling, or lifting heavy objects. One end of the bar is tapered to a point.

Number	B mm	Φ mm	L mm	g
5407-1002	15	15	500	400
5407-1004	18	18	600	700
5407-1006	20	20	800	1100

## No.5501 Slotted Screwdriver



- Used in Aerospace,Aviation,Military,Hospitals,ect. Lightweight,Non-magnetic, Strong and Durable.
- Fasten and unload slotted blot screw nail.

Number	H mm	B mm	L mm	g
5501-1002	0.5	3	50	30
5501-1004	0.8	4	75	40
5501-1006	1.0	5	100	53
5501-1008	1.1	6	150	85
5501-1010	1.2	8	200	135

## No.5502 Phillips Screwdriver



- Used in Aerospace,Aviation,Military,Hospitals,ect. Lightweight,Non-magnetic, Strong and Durable.
- Fasten and unload phillips lolt(screw nail).

Number	size	Φ mm	L mm	g
5502-1002	0	3	50	30
5502-1004	1	4	75	40
5502-1006	1	5	100	53
5502-1008	2	6	150	85
5502-1010	3	8	200	135

## No.5503 Electrician Screwdriver



- Used in Aerospace,Aviation,Military,Hospitals,ect. Lightweight,Non-magnetic, Strong and Durable.
- Fasten and unload electrician slotten bolt

Number	H mm	B mm	L mm	g
5503-1002	0.4	3	50	30
5503-1004	0.6	4	75	40
5503-1006	0.8	6	100	75
5503-1008	1.0	8	150	125
5503-1010	1.3	10	200	160

## No.5504 Lock Torque Wrench-Window Display



- Used in Aerospace,Aviation,Military,Hospitals,etc. Lightweight, Strong and Durable.

Number	C inch	Torque N. m	L mm	g
5504-1002	3/8	5-50	360	420
5504-1004	1/2	10-100	405	475
5504-1008	1/2	20-200	500	565
5504-1010	1/2	60-300	595	645
5504-1012	3/4	150-750	1040	2450
5504-1014	1	200-1000	1253	4350

## No.5601 Set-21pcs



- Used in Aerospace,Aviation, Military,Hospitals,etc. Lightweight,Non-magnetic,Strong and Durable.

Tools	Description
Wrench, Combination	6mm,8mm,10mm,12mm,14mm,17mm
Wrench, Hex Key	3mm,4mm,5mm,6mm,7mm,8mm,9mm,10mm,12mm
Wrench,Socket L-Type	6mm,8mm,10mm,12mm,14mm





**No.5602 Set—25pcs**



Tools	Description
Double open end wrench	11/16" * 3/4", 9/16" * 5/8", 7/16" * 1/2"
Combination wrench	10mm, 17mm
Wrench, Hex Key	3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 3/16", 5/32", 5/16"
Diagonal cutting pliers	6"
Long nose pliers	8"
Socket 3/8"	10mm, 17mm
Hinged handle	3/8" * 180mm
Flat screwdriver	3*50, 4*100, 8*150
Phillips screwdriver	#1*75, #3*150

**No.5603 Set—14pcs**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, strong and Durable.

Tools	Description
Socket 3/8" Hex	4*90mm, 5*90mm, 6*90mm, 8*90mm
Soccket 3/8"	13mm, 15mm, 17mm, 19mm,
Wrench, Double open End	13*15mm, 15*17mm, 17*19mm
Driver Extension	3/8" * 100mm, 3/8" * 200mm
Torque Wrench 3/8"	5-50Nm

**No.5604 Set—37pcs**



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.

Tools	Description
Socket 3/8"	10mm
Wrench, Double open End	8*10mm, 10*12mm, 14*17mm, 16*18mm, 17*19mm, 22*24mm, 13*15mm
Wrench, Hex Key	2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 150mm
Pliers, Lineman	150mm
Pliers, Diagonal Cutting	150mm
Pliers, Snipe Nose	150mm
Tweezers Neat Tips	150mm
Hinged Handle	3/8" * 190mm
Screwdriver Slotted	4*100mm, 8*150mm
Screwdriver Phillips	#1*75mm, #3*150mm
Wrench, Torx Key	T7, T8, T9, T10, T15, T20, T25, T27, T30, T40



## No.5605 Set—39pcs



- Used in Aerospace, Aviation, Military, Hospitals, etc. Lightweight, Non-magnetic, Strong and Durable.

Tools	Description
Wrench, Combination	6mm, 8mm, 10mm, 12mm, 14mm
Wrench, Hex Key	3mm, 4mm, 5mm, 6mm, 7mm 8mm, 9mm, 10mm, 11mm, 12mm,
Pliers, Snipe Nose	150mm, 200mm
Pliers, Diagonal Cutting	150mm, 200mm
Socket 1/2"	6mm, 8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm
Universal Joint	1/2" *80mm
Ratchet Wrench	1/2" *245mm
Driver Extension	1/2" *125mm, 1/2" *250mm
Screwdriver Slotted	3*50mm, 4*75mm, 5*100mm, 6*150mm
Screwdriver Phillips	50mm, 75mm, 100mm, 150mm



## No.5606 Set—16pcs



Tools	Description
Socket 1/2"	6mm, 8mm, 10mm, 12mm, 14mm, 17mm, 19mm, 22mm,
5305.Ratchet Wrench	1/2"*245mm
Sliding T Handle	1/2"*250mm
5309.Speed Handle	1/2"*400mm
5303.Universal Joint	1/2"*80mm
5307. Driver Extension	1/2"*125mm, 1/2" *250mm
5304.Hinged Handle	1/2"*250mm
5311.Screwdriver Socket	1/2"

## No.5607 Set—30pcs



Tools	Description
5114.Wrench, Hex Key	3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm
5502.Phillips Screwdriver	50mm, 75mm, 100mm, 150mm
5501.Slotted Screwdriver	50mm, 75mm, 100mm, 150mm
5103.Wrench, Combination	8mm, 10mm, 12mm, 14mm, 17mm, 19mm
5101.Wrench, Adjustable	8", 10"
5205.Pliers, Groove Joint	10"
5206.Pliers, Water Pump	10"
5204.Pliers, Snipe Nose	8"
5203.Pliers, Diagonal Cutting	8"
5401.Knife, Common	230mm
5207.Tweezers, Neat Tips	150mm
5701.Hammer, Ball Peen	0.45kg



## No.5701 Hammer, Ball Pein



● Most common striking tools. Used in metal working.

Number	Size	L mm	g
5701A-1002	230 g	300	330
5701A-1004	340 g	325	440
5701A-1006	450 g	365	600
5701A-1008	680 g	400	900
5701B-1002	3/4 lb	280	520
5701B-1004	1 lb	310	660

## No.5702 Hammer, Cross Pein Engineers



● Applied in metal shaping and flanging.

Number	Size g	L mm	g
5702-1002	230	300	330
5702-1004	340	325	440
5702-1006	450	365	600
5702-1008	500	365	650
5702-1010	600	400	820

## No.5703 Hammer, Claw



Number	Size lb	L mm	g
5703-1002	3/4	280	520
5703-1004	1	310	660

## No.5801 Screws



Number	Size mm	g
5801-1002	M4*16	10
5801-1004	M5*20	15
5801-1006	M6*30	25
5801-1008	M8*50	35
5801-1010	M10*70	65
5801-1012	M12*70	90

## No.5802 Nuts



Number	Size mm	g
5802-1002	M4	3
5802-1004	M5	4
5802-1006	M6	5
5802-1008	M8	8
5802-1010	M10	15
5802-1012	M12	20



**BEST TOOLS  
FOR MARINE**



# Non-sparking Insulated Tools

L



1000V

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**IEC60900**  
STANDARD





### No.6101 Injection Slotted Screwdriver



Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
6101-1002	2	50	134	0.5	3	35	33
6101-1006	3	75	159	0.6	3	35	32
6101-1008	3	75	159	0.8	4	45	42
6101-1010	3	75	180	1.0	5	70	65
6101-1012	4	100	184	0.8	4	45	42
6101-1014	4	100	205	1.0	5	75	70
6101-1016	4	100	215	1.1	6	85	80
6101-1018	5	125	240	1.1	6	100	95
6101-1020	6	150	265	1.1	6	110	105
6101-1022	6	150	265	1.2	7	125	120
6101-1024	6	150	277	1.2	8	140	135
6101-1026	8	200	327	1.2	8	165	155
6101-1028	10	250	377	1.6	9	185	175

### No.6201 Injection Pliers, Lineman



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6201-1002	6	150	180	165
6201-1004	7	175	355	330
6201-1006	8	200	465	435

### No.6102 Injection Phillips Screwdriver



Number	L <sub>1</sub> inch	size	L <sub>1</sub> mm	L mm	Φ mm	Be-Cu g	Al-Cu g
6102-1002	2	0	50	134	3	35	32
6102-1004	3	1	75	159	4	70	63
6102-1006	4	1	100	205	5	75	70
6102-1008	5	2	125	240	6	100	95
6102-1010	6	2	150	265	6	110	105
6102-1012	8	3	200	327	8	165	155
6102-1014	10	3	250	377	8	185	170

### No.6103 Injection Electrician Screwdriver

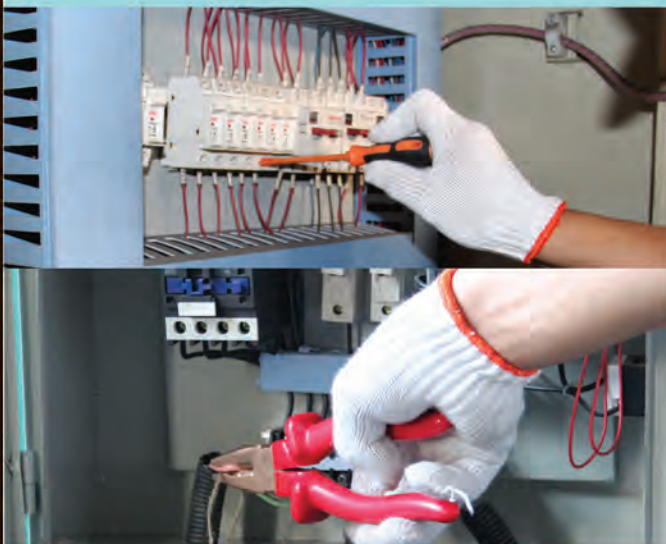


Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	Be-Cu g	Al-Cu g
6103-1002	2	50	134	0.4	3	37	35
6103-1004	3	75	159	0.6	4	47	45
6103-1006	4	100	205	0.8	5	95	90
6103-1008	6	150	265	0.8	6	145	135
6103-1010	8	200	327	1.0	8	230	210

### No.6201A Dipped Pliers, Lineman



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6201A-1002	6	150	180	165
6201A-1004	7	175	355	330
6201A-1006	8	200	465	435



**No.6202 Injection Pliers, Snipe Nose**



Number	Size inch	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
6202-1002	6	150	54	190	170
6202-1004	8	200	74	335	300

**No.6202A Dipped Pliers, Snipe Nose**



Number	Size inch	L mm	L <sub>1</sub> mm	Be-Cu g	Al-Cu g
6202A-1002	6	150	54	190	170
6202A-1004	8	200	74	335	300

**No.6203 Injection Pliers, Diagonal Cutting**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6203-1002	6	150	245	225
6203-1004	8	200	410	365

**No.6203A Dipped Pliers, Diagonal Cutting**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6203A-1002	6	150	245	225
6203A-1004	8	200	410	365

**No.6204 Injection Pliers, Round 45 Degree Bent**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6204-1002	6	150	190	170

**No.6204A Dipped Pliers, Round 45 Degree Bent**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6204A-1002	6	150	190	170



**No.6205 Injection Pliers, Flat Nose**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6205-1002	6	150	165	151
6205-1004	8	200	281	257

**No.6205A Dipped Pliers, Flat Nose**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6205A-1002	6	150	165	151
6205A-1004	8	200	281	257

**No.6206 Injection Pliers, Round Nose**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6206-1002	6	150	165	150

**No.6206A Dipped Pliers, Round Nose**



Number	Size inch	L mm	Be-Cu g	Al-Cu g
6206A-1002	6	150	165	150

**No.6207 Injection Wire Stripping Pliers**



Number	L mm	Be-Cu g	Al-Cu g
6207-1002	170	225	205

**No.6207A Dipped Wire Stripping Pliers**

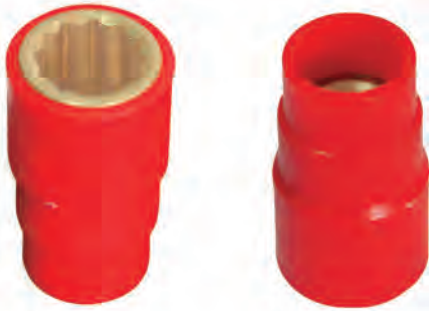


Number	L mm	Be-Cu g	Al-Cu g
6207A-1002	170	225	205

**No.6208 Dipped Pliers, Slip Joint**



Number	Size inch	L mm	K <sub>max</sub> mm	Be-Cu g	Al-Cu g
6208-1002	10	250	32	365	335



**No.6301 Injection Socket (C=3/8")**

Number	S mm	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
6301-8	8	28	44	35	32
6301-9	9	28	44	35	32
6301-10	10	32	48	50	45
6301-11	11	32	48	50	45
6301-12	12	32	48	50	45
6301-13	13	32	48	50	45
6301-14	14	32	48	50	45
6301-15	15	32	48	53	48
6301-16	16	32	48	58	53
6301-17	17	32	48	63	57
6301-19	19	32	48	68	62
6301-20	20	32	48	77	70

**No.6302 Injection Socket (C=1/2")**

Number	S mm	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
6302-10	10	40	56	78	71
6302-11	11	40	56	79	72
6302-12	12	40	56	79	72
6302-13	13	40	56	80	73
6302-14	14	40	56	80	73
6302-15	15	40	56	94	85
6302-16	16	40	56	94	85
6302-17	17	40	56	94	85
6302-18	18	42	58	94	85
6302-19	19	42	58	110	100
6302-20	20	42	58	120	105
6302-21	21	43	59	125	110
6302-22	22	43	59	130	115
6302-23	23	43	59	150	135
6302-24	24	43	59	165	145
6302-25	25	43	59	180	160
6302-26	26	43	59	200	180
6302-27	27	46	62	215	190
6302-28	28	46	62	225	200
6302-29	29	46	62	235	210
6302-30	30	46	62	250	220
6302-32	32	46	62	295	260



**No.6301A Dipped Socket (C=3/8")**

Number	S mm	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
6301A-8	8	28	44	35	32
6301A-9	9	28	44	35	32
6301A-10	10	32	48	50	45
6301A-11	11	32	48	50	45
6301A-12	12	32	48	50	45
6301A-13	13	32	48	50	45
6301A-14	14	32	48	50	45
6301A-15	15	32	48	53	48
6301A-16	16	32	48	58	53
6301A-17	17	32	48	63	57
6301A-19	19	32	48	68	62
6301A-20	20	32	48	77	70

**No.6302A Dipped Socket (C=1/2")**

Number	S mm	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
6302A-10	10	40	56	78	71
6302A-11	11	40	56	79	72
6302A-12	12	40	56	79	72
6302A-13	13	40	56	80	73
6302A-14	14	40	56	80	73
6302A-15	15	40	56	94	85
6302A-16	16	40	56	94	85
6302A-17	17	40	56	94	85
6302A-18	18	42	58	94	85
6302A-19	19	42	58	110	100
6302A-20	20	42	58	120	105
6302A-21	21	43	59	125	110
6302A-22	22	43	59	130	115
6302A-23	23	43	59	150	135
6302A-24	24	43	59	165	145
6302A-25	25	43	59	180	160
6302A-26	26	43	59	200	180
6302A-27	27	46	62	215	190
6302A-28	28	46	62	225	200
6302A-29	29	46	62	235	210
6302A-30	30	46	62	250	220
6302A-32	32	46	62	295	260



### No.6303 Injection Sliding T Type Wrench



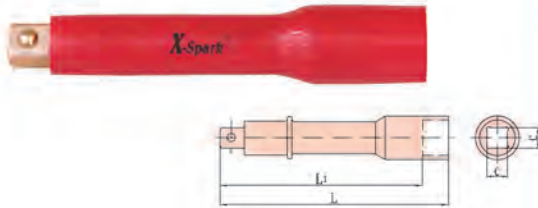
Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
6303-1002	3/8	140	200	360	330
6303-1004	1/2	140	200	440	400

### No.6303A Dipped Sliding T Type Wrench



Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
6303A-1002	3/8	140	200	370	340
6303A-1004	1/2	140	200	465	420

### No.6304 Dipped Driver Extension



Number	C inch	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
6304-1002	3/8	75	91	93	80
6304-1004	3/8	150	166	185	160
6304-1006	1/2	125	141	260	230
6304-1008	1/2	250	266	470	425

### No.6306 Dipped Sliding T Type Wrench



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
6306-7	7	120	120	100	90
6306-9	9	130	130	155	140
6306-11	11	140	150	190	170
6306-14	14	150	170	265	240
6306-17	17	170	190	410	370
6306-19	19	180	210	535	480

### No.6305 Dipped Sliding T Handle



Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
6305-1002	1/2	250	39	340	310
6305-1004	3/8	160	37	135	120

### No.6307 Dipped Offset Handle



Number	C inch	L mm	H mm	Be-Cu g	Al-Cu g
6307-1002	3/8	200	50	314	287
6307-1004	1/2	230	60	410	380

### No.6308 Dipped Internal Hexagon Socket



Number	C inch	S mm	L <sub>1</sub> mm	L mm	Be-Cu g	Al-Cu g
6308-3	1/4	3	55	71	17	16
6308-4		4	55	71	17	16
6308-5		5	55	71	20	18
6308-6		6	55	71	26	23
6308-7		7	55	71	30	27
6308-8		8	65	81	45	40
6308-9		9	65	81	55	50
6308-10		10	65	81	65	60

### No.6401 Injection Wrench, Single Open End



Number	S mm	L mm	Be-Cu g	Al-Cu g
6401-8	8	95	40	35
6401-10	10	100	50	45
6401-12	12	110	65	60
6401-14	14	140	95	85
6401-17	17	160	105	95
6401-19	19	170	130	115
6401-22	22	195	170	152
6401-24	24	220	190	170
6401-27	27	240	285	260
6401-30	30	260	320	290
6401-32	32	275	400	365

### No.6401A Dipped Wrench, Single Open End



Number	S mm	L mm	Be-Cu g	Al-Cu g
6401A-8	8	95	40	35
6401A-10	10	100	50	45
6401A-12	12	110	65	60
6401A-14	14	140	95	85
6401A-17	17	160	105	95
6401A-19	19	170	130	115
6401A-22	22	195	170	152
6401A-24	24	220	190	170
6401A-27	27	240	285	260
6401A-30	30	260	320	290
6401A-32	32	275	400	365

### No.6402 Injection Wrench, Adjustable



Number	L mm	K <sup>max</sup> mm	Be-Cu g	Al-Cu g
6402-1002	150	18	135	120
6402-1004	200	24	281	255
6402-1006	250	30	440	401
6402-1008	300	36	720	655

### No.6402A Dipped Wrench, Adjustable



Number	L mm	K <sup>max</sup> mm	Be-Cu g	Al-Cu g
6402A-1002	150	18	135	120
6402A-1004	200	24	281	255
6402A-1006	250	30	440	401
6402A-1008	300	36	720	655

### No.6403 Dipped Wrench, Single Box



Number	S mm	L mm	Be-Cu g	Al-Cu g
6403-8	8	110	40	35
6403-10	10	120	50	45
6403-12	12	130	65	60
6403-14	14	140	90	80
6403-17	17	155	105	90
6403-19	19	170	130	95
6403-22	22	190	175	150
6403-24	24	215	220	200
6403-27	27	230	270	245
6403-30	30	255	370	335
6403-32	32	265	425	385





### No.6404 Dipped Wrench, Single Box Offset



Number	S mm	L mm	Be-Cu g	Al-Cu g
6404-10	10	125	66	60
6404-12	12	130	88	80
6404-14	14	145	120	110
6404-17	17	155	145	130
6404-19	19	170	165	150
6404-22	22	190	185	165
6404-24	24	215	235	210
6404-27	27	230	310	270
6404-30	30	255	430	380
6404-32	32	265	450	400

### No.6405 Dipped Wrench, Hex Key



Number	S mm	L mm	H mm	Be-Cu g	Al-Cu g
6405-3	3	59	25	8	7
6405-4	4	65	30	10	8
6405-5	5	79	32	16	12
6405-6	6	85	37	25	20
6405-7	7	88	43	34	30
6405-8	8	92	44	50	45
6405-9	9	97	44	61	55
6405-10	10	110	45	82	70
6405-11	11	119	48	100	90
6405-12	12	130	52	145	130



### No.6406 Dipped Ratchet Wrench



Number	S <sub>1</sub> mm	S <sub>2</sub> mm	L mm	Be-Cu g	Al-Cu g
6406-1417	14	17	280	410	370
6406-1719	17	19	310	450	410
6406-1922	19	22	345	530	480
6406-2224	22	24	365	680	620

### No.6501 Insulated Tools Set-24pcs



L\*W\*H: 400\*290\*90mm

Tools	Description
Wrench, Single Open End	10, 11, 12, 13, 14, 17, 19mm
Pliers, Lineman	8"
Pliers, Diagonal Cutting	6"
Slotted Screwdriver	3*50, 4*100, 5*100mm
Phillips Screwdriver	#0*50, #1*75, #2*150 #1*100 mm
Socket 1/2"	10, 11, 12, 13, 14, 17, 19mm
Sliding T Type Wrench	1/2"

### No.6601 Dipped Hammer, Ball Pein



Number	S g	L mm	Weight g
6601-1002	230	280	403
6601-1004	340	280	502
6601-1006	450	310	680
6601-1008	680	340	950
6601-1010	910	350	1205
6601-1012	1130	400	1470



# Insulated Tools

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MANUFACTURED  
ACCORDING TO  
**IEC60900**  
STANDARD

 1000V

**DIPPED**  
INSULATED  
TOOLS  
**INJECTION**  
INSULATED  
TOOLS



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### No.7101 Injection Slotted Screwdriver



Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	g
7101-1002	2	50	134	0.5	3	35
7101-1006	3	75	159	0.6	3	34
7101-1008	3	75	159	0.8	4	44
7101-1010	3	75	180	1.0	5	68
7101-1012	4	100	184	0.8	4	44
7101-1014	4	100	205	1.0	5	73
7101-1016	4	100	215	1.1	6	84
7101-1018	5	125	240	1.1	6	100
7101-1020	6	150	265	1.1	6	110
7101-1022	6	150	265	1.2	7	125
7101-1024	6	150	277	1.2	8	140
7101-1026	8	200	327	1.2	8	165
7101-1028	10	250	377	1.6	9	185

### No.7102 Injection Phillips Screwdriver



Number	L <sub>1</sub> inch	size	L <sub>1</sub> mm	L mm	Φ mm	g
7102-1002	2	0	50	134	3	34
7102-1004	3	1	75	159	4	66
7102-1006	4	1	100	205	5	73
7102-1008	5	2	125	240	6	100
7102-1010	6	2	150	265	6	110
7102-1012	8	3	200	327	8	165
7102-1014	10	3	250	377	8	180



### No.7103 Injection Electrician Screwdriver



Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	g
7103-1002	2	50	134	0.4	3	37
7103-1004	3	75	153	0.6	4	47
7103-1006	4	100	205	0.8	5	95
7103-1008	6	150	265	0.8	6	145
7103-1010	8	200	327	1.0	8	230



绝缘工具试验设备



**No.7201 Injection Pliers, Lineman**



Number	Size inch	L mm	⚖ g
7201-1002	6	150	175
7201-1004	7	175	350
7201-1006	8	200	455

**No.7201A Dipped Pliers, Lineman**



Number	Size inch	L mm	⚖ g
7201A-1002	6	150	173
7201A-1004	7	175	345
7201A-1006	8	200	455

**No.7202 Injection Pliers, Snipe Nose**



Number	Size inch	L mm	L <sub>1</sub> mm	⚖ g
7202-1002	6	150	54	180
7202-1004	8	200	74	315

**No.7202A Dipped Pliers, Snipe Nose**



Number	Size inch	L mm	L <sub>1</sub> mm	⚖ g
7202A-1002	6	150	54	180
7202A-1004	8	200	74	315

**No.7203 Injection Pliers, Diagonal Cutting**



Number	Size inch	L mm	⚖ g
7203-1002	6	150	235
7203-1004	8	200	385

**No.7203A Dipped Pliers, Diagonal Cutting**



Number	Size inch	L mm	⚖ g
7203A-1002	6	150	235
7203A-1004	8	200	385



**No.7204 Injection Pliers, Round 45 Degree Bent**



Number	Size inch	L mm	⚖ g
7204-1002	6	150	180

**No.7204A Dipped Pliers, Round 45 Degree Bent**



Number	Size inch	L mm	⚖ g
7204A-1002	6	150	180

**No.7205 Injection Pliers, Flat Nose**



Number	Size inch	L mm	⚖ g
7205-1002	6	150	155
7205-1004	8	200	270

**No.7205A Dipped Pliers, Flat Nose**



Number	Size inch	L mm	⚖ g
7205A-1002	6	150	155
7205A-1004	8	200	270

**No.7206 Injection Pliers, Round Nose**



Number	Size inch	L mm	⚖ g
7206-1002	6	150	155

**No.7206A Dipped Pliers, Round Nose**



Number	Size inch	L mm	⚖ g
7206A-1002	6	150	155

### No.7207 Injection Wire Stripping Pliers



Number	L mm	g
7207-1002	160	215

### No.7207A Dipped Wire Stripping Pliers



Number	L mm	g
7207A-1002	160	215

### No.7208 Dipped Pliers, Slip Joint



Number	Size inch	L mm	K <sub>max</sub> mm	g
7208-1002	10	250	32	350

### No.7210 Injection Bent Pliers, Lineman



- DIN ISO 5743
- Made in Germany

Number	L mm	g
7210-1002	175	285

### No.7209 Cable Pliers



Number	L mm	g
7209-1002	250	500

### No.7211 Injection Bent Pliers, Snipe Nose



- DIN ISO 5743
- Made in Germany

Number	L mm	g
7211-1002	215	290

### No.7212 Injection Bent Pliers, Diagonal Cutting



- DIN ISO 5743
- Made in Germany

Number	L mm	g
7212-1002	175	265





**No.7301 Injection Socket (C=3/8")**

Number	S mm	L <sub>1</sub> mm	L mm	g
7301-8	8	28	44	34
7301-9	9	28	44	34
7301-10	10	28	44	47
7301-11	11	28	44	47
7301-12	12	28	44	47
7301-13	13	28	44	47
7301-14	14	28	44	47
7301-15	15	28	44	50
7301-16	16	28	44	55
7301-17	17	30	46	60
7301-19	19	30	46	65
7301-20	20	32	48	75

**No.7302 Injection Socket (C=1/2")**

Number	S mm	L <sub>1</sub> mm	L mm	g
7302-10	10	38	55	75
7302-11	11	38	55	75
7302-12	12	38	55	75
7302-13	13	38	55	77
7302-14	14	38	55	77
7302-15	15	38	55	90
7302-16	16	38	55	90
7302-17	17	38	55	90
7302-18	18	38	55	90
7302-19	19	38	55	105
7302-20	20	38	55	110
7302-21	21	38	55	115
7302-22	22	38	55	120
7302-23	23	38	55	142
7302-24	24	38	55	155
7302-25	25	41	58	170
7302-26	26	41	58	190
7302-27	27	42	59	200
7302-28	28	44	61	210
7302-29	29	44	61	225
7302-30	30	44	61	235
7302-32	32	44	61	275



**No.7301A Dipped Socket (C=3/8")**

Number	S mm	L <sub>1</sub> mm	L mm	g
7301A-8	8	28	44	34
7301A-9	9	28	44	34
7301A-10	10	28	44	47
7301A-11	11	28	44	47
7301A-12	12	28	44	47
7301A-13	13	28	44	47
7301A-14	14	28	44	47
7301A-15	15	28	44	50
7301A-16	16	28	44	55
7301A-17	17	30	46	60
7301A-19	19	30	46	65
7301A-20	20	32	48	75

**No.7302A Dipped Socket (C=1/2")**

Number	S mm	L <sub>1</sub> mm	L mm	g
7302A-10	10	38	55	75
7302A-11	11	38	55	75
7302A-12	12	38	55	75
7302A-13	13	38	55	77
7302A-14	14	38	55	77
7302A-15	15	38	55	90
7302A-16	16	38	55	90
7302A-17	17	38	55	90
7302A-18	18	38	55	90
7302A-19	19	38	55	105
7302A-20	20	38	55	110
7302A-21	21	38	55	115
7302A-22	22	38	55	120
7302A-23	23	38	55	142
7302A-24	24	38	55	155
7302A-25	25	41	58	170
7302A-26	26	41	58	190
7302A-27	27	42	59	200
7302A-28	28	44	61	210
7302A-29	29	44	61	225
7302A-30	30	44	61	235
7302A-32	32	44	61	275

## No.7303 Injection Sliding T Type Wrench



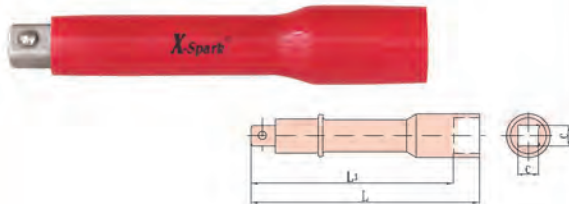
Number	C inch	L mm	H mm	⚖ g
7303-1002	3/8	140	200	350
7303-1004	1/2	140	200	420

## No.7303A Dipped Sliding T Type Wrench



Number	C inch	L mm	H mm	⚖ g
7303A-1002	3/8	140	200	350
7303A-1004	1/2	140	200	420

## No.7304 Dipped Driver Extension



Number	C inch	L <sub>1</sub> mm	L mm	⚖ g
7304-1002	3/8	75	91	85
7304-1004	3/8	150	166	170
7304-1006	1/2	125	141	245
7304-1008	1/2	250	266	450

## No.7304A Injection Driver Extension



Number	C inch	L <sub>1</sub> mm	L mm	⚖ g
7304A-1002	3/8	75	91	85
7304A-1004	3/8	150	166	170
7304A-1006	1/2	125	141	245
7304A-1008	1/2	250	266	450

## No.7305 Dipped Sliding T Handle



Number	C inch	L mm	⚖ g
7305-1002	1/2	250	325
7305-1004	3/8	160	125

## No.7306 Dipped Sliding T Type Wrench



Number	S mm	L mm	H mm	⚖ g
7306-7	7	120	120	95
7306-9	9	130	130	150
7306-11	11	140	150	180
7306-14	14	150	170	255
7306-17	17	170	190	390
7306-19	19	180	210	510





### No.7307 Dipped Offset Handle



Number	C inch	L mm	⚖ g
7307-1002	3/8	200	305
7307-1004	1/2	230	410

### No.7308 Dipped Internal Hexagon Socket



Number	C inch	S mm	L <sub>1</sub> mm	L mm	⚖ g
7308-3	1/4	3	55	71	17
7308-4		4	55	71	17
7308-5		5	55	71	20
7308-6		6	55	71	25
7308-7		7	55	71	30
7308-8		8	65	81	45
7308-9		9	65	81	55
7308-10		10	65	81	65

### No.7401 Injection Wrench, Single Open End



Number	S mm	L mm	⚖ g
7401-8	8	95	40
7401-10	10	100	50
7401-12	12	110	65
7401-14	14	140	90
7401-17	17	160	100
7401-19	19	170	120
7401-22	22	195	160
7401-24	24	220	180
7401-27	27	240	270
7401-30	30	260	300
7401-32	32	275	380

### No.7401A Dipped Wrench, Single Open End



Number	S mm	L mm	⚖ g
7401A-8	8	95	40
7401A-10	10	100	50
7401A-12	12	110	65
7401A-14	14	140	90
7401A-17	17	160	100
7401A-19	19	170	120
7401A-22	22	195	160
7401A-24	24	220	180
7401A-27	27	240	270
7401A-30	30	260	300
7401A-32	32	275	380

### No.7402 Injection Wrench, Adjustable



Number	L mm	K <sub>max</sub> mm	⚖ g
7402-1002	150	18	125
7402-1004	200	24	270
7402-1006	250	30	420
7402-1008	300	36	690

### No.7402A Dipped Wrench, Adjustable



Number	L mm	K <sub>max</sub> mm	⚖ g
7402A-1002	150	18	125
7402A-1004	200	24	270
7402A-1006	250	30	420
7402A-1008	300	36	690

### No.7403 Dipped Wrench, Single Box



Number	S mm	L mm	g
7403-8	8	110	40
7403-10	10	120	50
7403-12	12	130	65
7403-14	14	140	85
7403-17	17	155	95
7403-19	19	170	100
7403-22	22	190	160
7403-24	24	215	210
7403-27	27	230	255
7403-30	30	255	355
7403-32	32	265	405

### No.7404 Dipped Wrench, Single Box Offset



Number	S mm	L mm	g
7404-10	10	125	65
7404-12	12	130	85
7404-14	14	145	115
7404-17	17	155	140
7404-19	19	170	160
7404-22	22	190	175
7404-24	24	215	220
7404-27	27	230	285
7404-30	30	255	400
7404-32	32	265	420

### No.7404A Injection Wrench, Single Box Offset



Number	S mm	L mm	g
7404A-10	10	125	65
7404A-12	12	130	85
7404A-14	14	145	115
7404A-17	17	155	140
7404A-19	19	170	160
7404A-22	22	190	175
7404A-24	24	215	220
7404A-27	27	230	285
7404A-30	30	255	400
7404A-32	32	265	420

### No.7405 Dipped Wrench, Hex Key



Number	S mm	L mm	H mm	g
7405-3	3	59	25	7
7405-4	4	65	30	8
7405-5	5	79	32	12
7405-6	6	85	37	20
7405-7	7	88	43	30
7405-8	8	92	44	50
7405-9	9	97	44	60
7405-10	10	110	45	75
7405-11	11	119	48	95
7405-12	12	130	52	140

### No.7406 Dipped Ratchet Wrench



Number	S <sub>1</sub> mm	S <sub>2</sub> mm	L mm	g
7406-1417	14	17	280	390
7406-1719	17	19	310	435
7406-1922	19	22	345	505
7406-2224	22	24	365	655





**No.7407 Injection Ratchet Wrench**



Number	L mm	g
7407-1002	250	215

**No.7407A Dipped Ratchet Wrench**



Number	L mm	g
7407A-1002	250	215

**No.7601 Dipped Hacksaw**



Number	Size	L mm	g
7601-1002	300	470	825

**No.7602 Dipped Tweezers**



Number	L inch	L mm	g
7602-1002	6	150	45

**No.7603 Injection Scissors**



Number	L mm	g
7603-1002	150	100

**No.7604 Injection Knife**



Number	Size	g
7604-1002	50*180	85

## No.7605 Insulated Tape



Number	Size	g
7605-1002	20mm*10m	85

## No.7606 Test Pencil



Number	Insulation V	L mm	g
7606-1002	12-250	140	25

## No.7501 Insulated Tools Set-24pcs



L\*W\*H: 400\*290\*90mm

Tools	Description
Wrench, Single Open End	10, 11, 12, 13, 14, 17, 19mm
Pliers, Lineman	8"
Pliers, Diagonal Cutting	6"
Slotted Screwdriver	3*50, 4*100, 5*100mm
Phillips Screwdriver	#0*50, #1*75, #2*150 #1*100mm
Socket 1/2"	10, 11, 12, 13, 14, 17, 19mm
Sliding T Type Wrench	1/2"



## No.7502 Insulated Tools Set-7pcs



Tools	Description
Pliers, Lineman	200mm
Pliers, Diagonal Cutting	160mm
Pliers, Snipe Nose	200mm
Wire Stripping Pliers	160mm
Slotted Screwdriver	4*100mm
Phillips Screwdriver	#1*75mm
Test Pencil	150mm

## No.7503 Insulated Tools Set-8pcs



Tools	Description
Pliers, Lineman	200mm
Pliers, Diagonal Cutting	150mm
Pliers, Snipe Nose	200mm
Slotted Screwdriver	4*100mm, 6*150mm
Phillips Screwdriver	#1*75mm, #2*150mm
Test Pencil	150mm



**No.7504 Insulated Tools Set-41pcs**



Tools	Description
Pliers, Lineman	200mm
Pliers, Diagonal Cutting	160mm
Cable Cutter	250mm
Wire Stripping Pliers	160mm
Slotted Screwdriver	3*75, 4*100, 5*125, 6*150mm
Phillips Screwdriver	#1*75, #2*100mm
Single Open End	10, 13, 14, 17, 19, 22mm
Single Box	10, 13, 14, 17, 19, 22mm
Wrench, Adjustable	250mm
Ratchet Wrench	1/2"
Sliding T Type Wrench	1/2"
Driver Extension	1/2" *125mm, 1/2" *250mm
Socket 1/2"	10, 11, 12, 13, 14, 16, 17, 18, 19, 22, 24mm
Electrician Knife	50*180mm
Shears, Cutting	160mm
Insulating Tape	20mm*10m

**No.7505 Insulated Tools Set-46pcs**



Tools	Description
Pliers, Lineman	200mm
Pliers, Diagonal Cutting	160mm
Wire Stripping Pliers	160mm
Cable Cutter	250mm
Pliers, Water Pump	250mm
Single Open End	10, 13, 14, 17, 19, 22mm
Single Box	10, 13, 14, 17, 19, 22mm
Wrench, Adjustable	250mm
Slotted Screwdriver	3*75, 4*100mm, 5*125, 6*150mm
Ratchet Wrench	1/2"
Sliding T Type Wrench	1/2"
Driver Extension	1/2" *125mm, 1/2" *250mm
Socket 1/2"	10, 11, 12, 13, 14, 17, 19, 22, 24mm
Cable Knife	180mm
Knife	160mm
Insulating Clamp	6pcs
Insulating Mat	3pcs

**No.7506 Insulated Tools Set-11pcs**



Tools	Description
Slotted Screwdriver	3*50mm, 4*75mm, 5*100mm, 6*125mm, 6*150mm
Phillips Screwdriver	3*50mm, 4*75mm, 5*100mm, 6*125mm, 6*150mm

**No.7507 Insulated Tools Set-11pcs**



Tools	Description
Socket 1/2 "	10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 27mm,
Sliding T Type Wrench	1/2 "
Offset Handle	1/2 "

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# Stainless Steel Antimagnetic Tools





**No.8101 Wrench,Combination**



Die Forged DIN 3113

Number	Size mm	L mm	⚖ g	Number	Size mm	L mm	⚖ g
8101-6	6	105	18	8101-23	23	265	320
8101-7	7	120	40	8101-24	24	265	320
8101-8	8	120	40	8101-25	25	265	320
8101-9	9	135	45	8101-26	26	290	430
8101-10	10	135	45	8101-27	27	290	430
8101-11	11	150	65	8101-30	30	320	530
8101-12	12	150	65	8101-32	32	340	780
8101-13	13	175	90	8101-34	34	360	960
8101-14	14	175	90	8101-36	36	360	960
8101-15	15	195	140	8101-38	38	430	1300
8101-16	16	195	140	8101-41	41	430	1300
8101-17	17	195	140	8101-46	46	480	1760
8101-18	18	215	180	8101-50	50	520	2020
8101-19	19	215	180	8101-55	55	560	2000
8101-20	20	215	180	8101-60	60	595	2920
8101-21	21	245	280	8101-65	65	595	3440
8101-22	22	245	280				

**No.8101A Wrench,Combination**



Die Forged DIN 3113

Number	Size mm	L mm	⚖ g	Number	Size mm	L mm	⚖ g
8101A-6	6	105	18	8101A-20	20	215	180
8101A-7	7	120	40	8101A-21	21	245	280
8101A-8	8	120	40	8101A-22	22	245	280
8101A-9	9	135	45	8101A-23	23	265	320
8101A-10	10	135	45	8101A-24	24	265	320
8101A-11	11	150	65	8101A-25	25	265	320
8101A-12	12	150	65	8101A-26	26	290	430
8101A-13	13	175	90	8101A-27	27	290	430
8101A-14	14	175	90	8101A-30	30	320	530
8101A-15	15	195	140	8101A-32	32	340	780
8101A-16	16	195	140	8101A-34	34	360	960
8101A-17	17	195	140	8101A-36	36	360	960
8101A-18	18	215	180	8101A-38	38	430	1300
8101A-19	19	215	180	8101A-41	41	430	1300

**No.8103 Wrench,Single Open End**



Die Forged DIN 894

**No.8102 Wrench,Double Open End**



Number	Size mm	L mm	⚖ g	Number	Size mm	L mm	⚖ g
8102-0607	6*7	92	25	8102-2427	24*27	230	345
8102-0709	7*9	96	28	8102-2528	25*28	236	365
8102-0810	8*10	100	34	8102-2730	27*30	250	485
8102-0911	9*11	110	50	8102-3032	30*32	265	610
8102-1012	10*12	120	60	8102-3234	32*34	270	815
8102-1214	12*14	130	75	8102-3236	32*36	300	885
8102-1417	14*17	150	120	8102-3436	34*36	300	885
8102-1719	17*19	170	150	8102-3638	36*38	330	1350
8102-1922	19*22	185	220	8102-3641	36*41	330	1350
8102-2224	22*24	210	312	8102-4146	41*46	360	1690

**No.8102A Wrench,Double Open End**



Die Forged DIN 3110

Number	S mm	L mm	⚖ g
8102A-0607	6*7	120	25
8102A-0709	7*9	135	35
8102A-0810	8*10	145	45
8102A-1012	10*12	165	70
8102A-1214	12*14	180	95
8102A-1417	14*17	195	120
8102A-1719	17*19	210	165
8102A-1922	19*22	225	220
8102A-2224	22*24	250	312
8102A-2427	24*27	270	400
8102A-2730	27*30	290	540
8102A-3032	30*32	310	740
8102A-3236	32*36	330	900
8102A-3436	34*36	345	970

Number	S mm	L mm	⚖ g
8103-8	8	95	40
8103-10	10	105	50
8103-12	12	125	65
8103-14	14	140	95
8103-17	17	160	105
8103-19	19	170	130
8103-22	22	195	170
8103-24	24	220	190
8103-27	27	240	285
8103-30	30	260	320
8103-32	32	275	400
8103-34	34	290	455
8103-36	36	310	530
8103-41	41	345	615
8103-46	46	375	950

**No.8103A Wrench, Single Open End**



Die Forged DIN 894

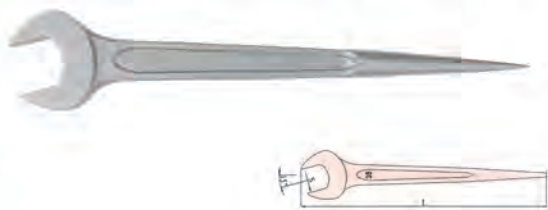
Number	S mm	L mm	g
8103A-8	8	95	40
8103A-10	10	105	50
8103A-12	12	125	65
8103A-14	14	140	95
8103A-17	17	160	105
8103A-19	19	170	130
8103A-22	22	195	170
8103A-24	24	220	210
8103A-27	27	240	300
8103A-30	30	260	380
8103A-32	32	260	450

**No.8104A Wrench, Construction With Pin**



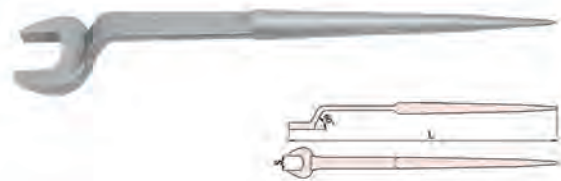
Number	S mm	L mm	g
8104A-17	17	320	210
8104A-19	19	350	320
8104A-22	22	350	430
8104A-24	24	370	480
8104A-27	27	370	640
8104A-30	30	400	800
8104A-32	32	400	800
8104A-36	36	430	950
8104A-41	41	470	1270
8104A-46	46	500	1600

**No.8104 Wrench, Construction With Pin**



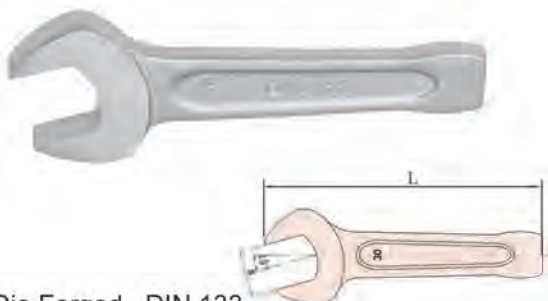
Number	S mm	L mm	g
8104-17	17	320	210
8104-19	19	350	320
8104-22	22	350	430
8104-24	24	370	480
8104-27	27	370	640
8104-30	30	400	800
8104-32	32	400	800
8104-36	36	430	950
8104-41	41	470	1270
8104-46	46	500	1600

**No.8105 Wrench, Construction, Offset Type With Pin**



Number	S mm	L mm	g
8105-17	17	320	210
8105-19	19	350	320
8105-22	22	350	430
8105-24	24	370	480
8105-27	27	370	640
8105-30	30	400	800
8105-32	32	400	800
8105-36	36	430	950
8105-41	41	470	1270
8105-46	46	500	1600

**No.8106 Wrench, Striking Open**



Die Forged DIN 133

Number	S mm	L mm	g
8106-17	17	125	150
8106-19	19	125	150
8106-22	22	135	195
8106-24	24	150	245
8106-27	27	175	335
8106-30	30	190	435
8106-32	32	190	515
8106-36	36	210	800
8106-41	41	230	955
8106-46	46	250	1225
8106-50	50	275	1560
8106-55	55	305	1850
8106-60	60	315	2190
8106-65	65	335	3060

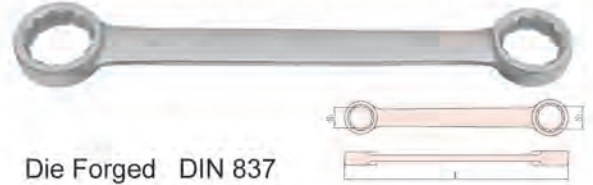


## No.8107 Wrench, Double Box Offset



Number	Size mm	L mm	g	Number	Size mm	L mm	g
8107-0507	5.5*7	115	22	8107-1924	19*24	310	310
8107-0607	6*7	115	25	8107-2123	21*23	285	285
8107-0709	7*9	130	40	8107-2126	21*26	320	410
8107-0810	8*10	130	45	8107-2224	22*24	310	410
8107-0911	9*11	140	55	8107-2427	24*27	340	400
8107-1011	10*11	140	65	8107-2430	24*30	350	450
8107-1012	10*12	140	65	8107-2528	25*28	350	550
8107-1213	12*13	160	80	8107-2632	26*32	370	600
8107-1214	12*14	160	80	8107-2730	27*30	360	520
8107-1417	14*17	220	205	8107-3032	30*32	380	630
8107-1618	16*18	220	220	8107-3036	30*36	405	1145
8107-1719	17*19	250	225	8107-3234	32*34	400	1080
8107-1722	17*22	250	290	8107-3236	32*36	405	1145
8107-1819	18*19	250	295	8107-3436	34*36	420	1165
8107-1922	19*22	280	270	8107-3641	36*41	445	1600

## No.8108 Wrench, Double Flat Box



Die Forged DIN 837

Number	S1*S2 mm	L mm	g
8108-0810	8*10	115	32
8108-0911	9*11	125	37
8108-1012	10*12	140	55
8108-1214	12*14	145	70
8108-1417	14*17	165	100
8108-1719	17*19	185	132
8108-1922	19*22	200	180
8108-2224	22*24	220	240
8108-2427	24*27	255	320
8108-2730	27*30	280	385
8108-3032	30*32	295	465
8108-3036	30*36	330	600
8108-3641	36*41	365	935

## No.8107A Wrench, Double Box Offset



Die Forged DIN 838

Number	Size mm	L mm	g	Number	Size mm	L mm	g
8107A-0810	8*10	190	55	8107A-2224	22*24	330	455
8107A-1012	10*12	200	85	8107A-2427	24*27	340	520
8107A-1214	12*14	220	151	8107A-2730	27*30	350	705
8107A-1417	14*17	255	205	8107A-3032	30*32	370	805
8107A-1719	17*19	280	225	8107A-3236	32*36	430	1145
8107A-1922	19*22	300	310	8107A-3641	36*41	470	1600
8107A-1924	19*24	320	355				

## No.8109 Wrench, Single Box



Number	S mm	L mm	g
8109-8	8	110	40
8109-10	10	120	50
8109-12	12	130	65
8109-14	14	140	90
8109-17	17	155	105
8109-19	19	170	130
8109-22	22	190	175
8109-24	24	215	220
8109-27	27	230	270
8109-30	30	255	370
8109-32	32	265	425
8109-36	36	295	550
8109-41	41	330	825
8109-46	46	365	1120

Number	S mm	L mm	g
8109A-8	8	110	40
8109A-10	10	120	50
8109A-12	12	130	65
8109A-14	14	140	90
8109A-17	17	155	105
8109A-19	19	170	130
8109A-22	22	190	175
8109A-24	24	215	220
8109A-27	27	230	270
8109A-30	30	255	370
8109A-32	32	265	425
8109A-36	36	295	550
8109A-41	41	330	825
8109A-46	46	365	1120

## No.8109A Wrench, Single Box



**No.8110 Wrench, Single Bent Box**



Number	S mm	L mm	g
8110-10	10	119	45
8110-12	12	151	50
8110-14	14	151	60
8110-16	16	174	90
8110-17	17	174	90
8110-19	19	207	195
8110-22	22	207	180
8110-24	24	250	300
8110-27	27	250	270
8110-30	30	295	420
8110-32	32	295	420
8110-34	34	307	600
8110-36	36	307	600
8110-38	38	340	830
8110-41	41	340	810
8110-46	46	370	930

**No.8110A Wrench, Single Bent Box**



Number	S mm	L mm	g
8110A-10	10	119	60
8110A-12	12	151	85
8110A-14	14	151	85
8110A-16	16	174	150
8110A-17	17	174	160
8110A-19	19	207	195
8110A-22	22	207	205
8110A-24	24	250	330
8110A-27	27	250	315
8110A-30	30	295	480
8110A-32	32	295	455
8110A-34	34	307	650
8110A-36	36	307	650
8110A-38	38	340	830
8110A-41	41	340	810
8110A-46	46	370	1230

**No.8111 Wrench, Single Box Offset**



Number	S mm	L mm	g
8111-22	22	190	185
8111-24	24	215	235
8111-27	27	230	270
8111-30	30	255	430
8111-32	32	265	450
8111-36	36	295	610
8111-41	41	330	855
8111-46	46	365	1000

**No.8111A Wrench, Single Box Offset**



Number	S mm	L mm	g
8111A-22	22	190	185
8111A-24	24	215	235
8111A-27	27	230	310
8111A-30	30	255	430
8111A-32	32	265	450
8111A-36	36	295	610
8111A-41	41	330	855
8111A-46	46	365	1000

**No.8112 Wrench, Construction**



Number	S mm	L mm	g
8112-14	14	270	145
8112-17	17	310	200
8112-19	19	330	250
8112-22	22	350	320
8112-24	24	370	400
8112-27	27	400	500
8112-30	30	430	730
8112-32	32	430	700
8112-36	36	460	900
8112-41	41	490	1090
8112-46	46	520	1560

**No.8112A Wrench, Construction**



Number	S mm	L mm	g
8112A-14	14	270	145
8112A-17	17	310	200
8112A-19	19	330	250
8112A-22	22	350	320
8112A-24	24	370	400
8112A-27	27	400	500
8112A-30	30	430	700
8112A-32	32	430	660
8112A-36	36	460	900
8112A-41	41	490	1090
8112A-46	46	520	1560



## No.8113 Wrench, Striking Box



Die Forged DIN 7444

Number	S mm	L mm	g
8113-17	17	145	210
8113-19	19	145	210
8113-22	22	155	235
8113-24	24	165	235
8113-27	27	175	350
8113-30	30	185	475
8113-32	32	185	490
8113-34	34	200	540
8113-36	36	205	580
8113-38	38	215	680
8113-41	41	225	755
8113-46	46	235	990
8113-50	50	250	1145
8113-55	55	265	1440
8113-60	60	274	1620
8113-65	65	298	1995

## No.8114 Wrench, Striking Box Bent



Number	S mm	L mm	g
8114-24	24	160	280
8114-27	27	175	370
8114-30	30	190	525
8114-32	32	190	500
8114-36	36	210	630
8114-41	41	225	750
8114-46	46	240	1160
8114-50	50	255	1240
8114-55	55	270	1450
8114-60	60	285	1820
8114-65	65	300	2645
8114-70	70	320	2960

## No.8115 Wrench, Adjustable



Number	L mm	K <sub>max</sub> mm	g
8115-1002	100	13	40
8115-1004	150	18	145
8115-1006	200	24	265
8115-1008	250	30	410
8115-1010	300	36	650
8115-1012	375	46	1410
8115-1014	450	55	2070
8115-1016	600	65	4705

## No.8115A Wrench, Adjustable



Number	L mm	K <sub>max</sub> mm	g
8115A-1002	150	18	150
8115A-1004	200	24	250
8115A-1006	250	30	420
8115A-1008	300	36	650

## No.8115B Wrench, Adjustable (Italy Type)



Number	L mm	K <sub>max</sub> mm	g
8115B-1002	150	18	160
8115B-1004	200	24	350
8115B-1006	250	30	610



### No.8116 Wrench, Pipe



Number	L mm	K <sub>max</sub> mm	⚖ g
8116-1002	200	25	380
8116-1004	250	30	580
8116-1006	300	40	750
8116-1008	350	50	1100

### No.8117A Chain Wrench



Number	L mm	D mm	⚖ g
8117A-1002	600	100	2000
8117A-1004	600	200	2500
8117A-1006	900	300	4500
8117A-1008	900	400	5200

### No.8116A Wrench, Pipe



Number	L mm	⚖ g
8116A-1002	250	550
8116A-1004	300	820
8116A-1006	350	1100
8116A-1008	450	1700
8116A-1010	600	2710
8116A-1012	900	4950

### No.8118 Wrench, Monkey



Number	L mm	K <sub>max</sub> mm	⚖ g
8118-1002	240	45	510
8118-1004	254	48	615
8118-1006	305	58	910
8118-1008	350	65	1220
8118-1010	380	70	1465

### No.8117 Wrench, Pipe (American Type)



Number	L mm	K <sub>max</sub> mm	⚖ g
8117-1002	200	25	420
8117-1004	250	30	735
8117-1006	300	40	1050
8117-1008	350	50	1315

#### Aluminium Handle

8117-1010	450	60	1500
8117-1012	600	75	2300
8117-1014	900	85	3700
8117-1016	1200	110	8000

### No.8119 Motor Wrench



Number	S mm	L mm	⚖ g
8119-62	62	250	575
8119-78	78	280	860
8119-82	82	375	1430





### No.8120 Wrench, Hex Key



Number	S mm	L mm	⚖ g	Number	S mm	L mm	⚖ g
8120-1.5	1.5	59	8	8120-16	16	162	300
8120-2	2	59	8	8120-17	17	168	370
8120-2.5	2.5	59	8	8120-18	18	173	450
8120-3	3	59	8	8120-19	19	177	490
8120-4	4	65	10	8120-21	21	184	652
8120-5	5	79	16	8120-22	22	186	675
8120-6	6	85	25	8120-24	24	192	825
8120-7	7	88	34	8120-25	25	200	925
8120-8	8	92	50	8120-26	26	206	1025
8120-9	9	97	61	8120-27	27	213	1220
8120-10	10	110	82	8120-28	28	222	1350
8120-11	11	119	100	8120-30	30	240	1615
8120-12	12	130	145	8120-32	32	266	2065
8120-13	13	140	180	8120-36	36	294	2905
8120-14	14	150	211	8120-41	41	320	4120
8120-15	15	156	260				

### No.8120C Wrench, T Type Hex Key



Number	S mm	⚖ g
8120C-1002	1.5	50
8120C-1004	2	55
8120C-1006	2.5	60
8120C-1008	3	80
8120C-1010	4	100
8120C-1012	5	120
8120C-1014	6	180
8120C-1016	8	220
8120C-1018	10	250

### No.8120A Welded T Ball Hex Key



Number	S mm	⚖ g
8120A-1002	3	55
8120A-1004	4	75
8120A-1006	5	85
8120A-1008	6	100
8120A-1010	7	115
8120A-1012	8	125
8120A-1014	9	135
8120A-1016	10	150

### No.8120D Wrench, Hex Key Withink Ball



Number	S mm	L mm	H mm	⚖ g
8120D-2	2	50	16	3
8120D-3	3	63	20	5
8120D-4	4	70	25	12
8120D-5	5	80	28	22
8120D-6	6	90	32	30
8120D-7	7	95	34	50
8120D-8	8	100	36	56
8120D-9	9	106	38	85
8120D-10	10	112	40	100
8120D-11	11	118	42	140
8120D-12	12	125	45	175

### No.8120B Formed T Hex Key



Number	S mm	⚖ g
8120B-1002	3	55
8120B-1004	4	75
8120B-1006	5	85
8120B-1008	6	100
8120B-1010	7	115
8120B-1012	8	125
8120B-1014	9	135
8120B-1016	10	150

### No.8121 Valve Wrench ,C Type



Number	L mm	S <sub>1</sub> mm	S <sub>2</sub> mm	⚖ g
8121-1002	200	14.5	18.5	370
8121-1004	250	17.5	25.5	635

### No.8122 Valve Wrench ,C Type



Number	L mm	S mm	g
8122-1002	450	40	1205

### No.8123 Wrench, Hook



Die Forged DIN 1810

Number	Size mm	L mm	g
8123-1002	30-32	136	60
8123-1004	34-36	170	90
8123-1006	40-42	170	100
8123-1008	45-50	206	150
8123-1010	52-55	206	160
8123-1012	58-62	242	210
8123-1014	68-75	242	250
8123-1016	80-90	280	370
8123-1018	95-100	280	410
8123-1020	110-115	334	700
8123-1022	120-130	334	750
8123-1024	135-145	383	1050

### No.8123A Wrench, Hook



Die Forged DIN 1810

Number	Size mm	L mm	g
8123A-1002	30-32	136	60
8123A-1004	34-36	170	90
8123A-1006	40-42	170	100
8123A-1008	45-50	206	150
8123A-1010	52-55	206	160
8123A-1012	58-62	242	210
8123A-1014	68-75	242	250
8123A-1016	80-90	280	370
8123A-1018	95-100	280	410
8123A-1020	110-115	334	700
8123A-1022	120-130	334	750
8123A-1024	135-145	383	1050

### No.8124 Hook Wrench With Pin



Die Forged DIN 1810

Number	D mm	L mm	g
8124-1002	30-32	136	63
8124-1004	34-36	171	95
8124-1006	40-42	171	105
8124-1008	45-50	207	160
8124-1010	52-55	207	170
8124-1012	58-62	243	225
8124-1014	68-75	243	265
8124-1016	80-90	281	375
8124-1018	95-100	281	415
8124-1020	110-115	333	770

### No.8124A Hook Wrench With Pin



Die Forged DIN 1810

Number	D mm	L mm	g
8124A-1002	30-32	136	63
8124A-1004	34-36	171	95
8124A-1006	40-42	171	105
8124A-1008	45-50	207	160
8124A-1010	52-55	207	170
8124A-1012	58-62	243	225
8124A-1014	68-75	243	265
8124A-1016	80-90	281	375
8124A-1018	95-100	281	415
8124A-1020	110-115	333	770

### No.8124B Wrench, Adjustable Hook



Number	D mm	L mm	g
8124B-1002	20-35	165	115
8124B-1004	35-60	190	150
8124B-1006	60-90	280	350
8124B-1008	90-155	330	650
8124B-1010	155-230	400	1150





## No.8125 Valve Handle



Number	K mm	L mm	g
8125-30	30	200	280
8125-35	35	250	360
8125-40	40	300	470
8125-45	45	350	520
8125-50	50	400	800
8125-55	55	450	940
8125-60	60	500	1180
8125-65	65	550	1320
8125-70	70	600	1500
8125-75	75	650	1600
8125-80	80	700	1700
8125-85	85	750	2250
8125-90	90	800	2450
8125-95	95	850	2550
8125-100	100	900	2650

## No.8126 Valve Handle



Number	K mm	L mm	H mm	g
8126-30	30	200	46	265
8126-35	35	250	52	375
8126-40	40	300	54	450
8126-45	45	350	60	585
8126-50	50	400	68	740
8126-55	55	450	74	830
8126-60	60	500	80	1200
8126-65	65	550	85	1280
8126-70	70	600	88	1380
8126-75	75	650	95	1650
8126-80	80	700	100	1870
8126-85	85	750	100	2090
8126-90	90	800	107	2310
8126-95	95	900	112	2980
8126-100	100	1000	117	3330

## No.8127 Wrench, Bung



Number	L mm	H mm	g
8127-1002	300	70	630

## No.8123 Wrench, Bung



Number	L mm	H <sup>1</sup> mm	H <sup>2</sup> mm	g
8128-1002	350	70	95	1165

## No.8129 Wrench, Bung



Number	L mm	H <sup>1</sup> mm	H <sup>2</sup> mm	g
8129-1002	385	93	61	1250

## No.8130 Ratchet Wrench



Number	S <sub>1</sub> mm	S <sub>2</sub> mm	L mm	g
8130-1417	14	17	280	410
8130-1719	17	19	310	450
8130-1922	19	22	345	530
8130-2224	22	24	365	680
8130-2427	24	27	380	860
8130-2730	27	30	400	990
8130-3032	30	32	400	1025
8130-3236	32	36	450	1450
8130-3641	36	41	495	1860

## No.8130A Ratchet Wrench



Number	S <sub>1</sub> mm	S <sub>2</sub> mm	L mm	g
8130A-1417	14	17	280	410
8130A-1719	17	19	310	450
8130A-1922	19	22	345	530
8130A-2224	22	24	365	680
8130A-2427	24	27	380	860
8130A-2730	27	30	400	990
8130A-3032	30	32	400	1025
8130A-3236	32	36	450	1450
8130A-3641	36	41	495	1860

**No.8131 Cabinet Key**



Number	S1*S2*S3 mm	g
8131-1002	8*9*10	290
8131-1004	10*12*14	320
8131-1006	11*13*15	350
8131-1008	12*14*17	385
8131-1010	14*17*19	425

**No.8132 Cabinet Key**



Number	S1*S2*S3 mm	L mm	g
8132-1002	17*19*21*23	350	1250
8132-1004	17*19*22*24	350	1250

**No.8204 Phillips Screwdriver**



Number	L <sub>1</sub> mm	size	L mm	g
8204-1002	50	0	155	255
8204-1004	75	1	180	270
8204-1006	100	1	205	325
8204-1008	150	2	255	340
8204-1010	200	3	320	390
8204-1012	250	3	370	555
8204-1014	300	4	420	650

**No.8201 Slotted Screwdriver**



Number	L <sub>1</sub> inch	L <sub>1</sub> mm	L mm	H mm	B mm	g
8201-1002	2	50	134	0.5	3	35
8201-1006	3	75	159	0.6	3	35
8201-1008	3	75	159	0.8	4	45
8201-1010	3	75	180	1.0	5	70
8201-1012	4	100	184	0.8	4	45
8201-1014	4	100	205	1.0	5	75
8201-1016	4	100	215	1.1	6	85
8201-1018	5	125	240	1.1	6	100
8201-1020	6	150	265	1.1	6	110
8201-1022	6	150	265	1.2	7	125
8201-1024	6	150	277	1.2	8	140
8201-1026	8	200	327	1.2	8	165
8201-1028	10	250	377	1.6	9	185
8201-1030	10	250	377	1.8	11	260
8201-1032	12	300	427	1.6	10	245
8201-1034	12	300	427	1.8	11	290
8201-1036	14	350	477	1.8	11	320
8201-1038	16	400	550	2.0	12	450

**No.8202 Phillips Screwdriver**



Number	L <sub>1</sub> inch	size	L <sub>1</sub> mm	L mm	Φ mm	g
8202-1002	2	0	50	134	3	35
8202-1004	3	1	75	159	4	70
8202-1006	4	1	100	205	5	75
8202-1008	5	2	125	240	6	100
8202-1010	6	2	150	265	6	110
8202-1012	8	3	200	327	8	165
8202-1014	10	3	250	377	8	185
8202-1016	12	4	300	427	9	245
8202-1018	14	4	350	477	9	270
8202-1020	16	4	400	550	9	295
8202-1022	18	4	450	600	9	320

**No.8203 Slotted Screwdriver**



Number	L <sub>1</sub> mm	B mm	L mm	g
8203-1002	50	3	155	255
8203-1004	75	4	180	270
8203-1006	100	5	205	325
8203-1008	150	6	255	340
8203-1010	200	8	320	390
8203-1012	250	9	370	555
8203-1014	300	10	420	650



**No.8205 Stubby Screwdrivers**



Number	L <sub>1</sub> mm	B mm	L mm	g
8205-1002	38	3	85	140
8205-1004	38	4	85	160
8205-1006	38	5	85	180
8205-1008	38	6	85	190
8205-1010	38	8	85	200

**No.8207 Phillips Screwdriver**



Number	Size	L mm	g
8207-1002	PH0	50	200
8207-1004	PH1	75	215
8207-1006	PH2	150	250
8207-1008	PH3	200	370
8207-1010	PH4	300	450

**No.8206 Slotted Screwdriver**



Number	B mm	L mm	g
8206-1002	3	50	200
8206-1004	4	75	215
8206-1006	5	100	230
8206-1008	6	150	250
8206-1010	8	200	370
8206-1012	10	300	450

**No.8207A Phillips Screwdriver 5pcs**



Tools	Description
8207A-5	0#*50mm, 1#*75mm, 2#*150mm, 3#*200mm, 4#*300mm

**No.8206A Slotted Screwdriver 6pcs**



Tools	Description
8206A-6	3*50mm, 4*75mm, 5*100mm, 6*150mm, 8*200mm, 10*300mm

**No.8208 Driver Hex Nut**




Number	S mm	L mm	g
8208-6	6	90	240
8208-8	8	100	245
8208-10	10	110	255
8208-12	12	110	280
8208-14	14	110	300
8208-17	17	120	330
8208-19	19	130	360
8208-22	22	130	380




**No.8301 Pliers, Lineman**



Number	Size inch	L mm	 g
8301-1002	6	150	180
8301-1004	7	175	355
8301-1006	8	200	465
8301-1008	10	250	550


**No.8305 Pliers, Slip Joint**



Number	Size inch	L mm	K <sub>max</sub> mm	 g
8305-1002	10	250	32	365


**No.8302 Pliers, Adjustable Combination**



Number	Size inch	L mm	K mm	 g
8302-1002	6	150	8	213
8302-1004	8	200	13	380


**No.8306 Bolt Chipper**



Number	Size inch	L mm	 g
8306-1002	8	200	225


**No.8303 Pliers, Diagonal Cutting**



Number	Size inch	L mm	 g
8303-1002	6	150	245
8303-1004	8	200	410


**No.8307 Locking Pliers**



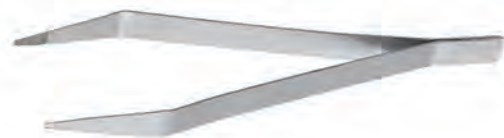
Number	Size inch	L mm	D mm	 g
8307-1002	10	225	40	480


**No.8304 Pliers, Snipe Nose**



Number	Size inch	L mm	L <sub>1</sub> mm	 g
8304-1002	6	150	54	190
8304-1004	8	200	74	335

**No.8308 Tweezers, Flat Nose**



Number	L mm	 g
8308-1002	150	30
8308-1004	200	50



**No.8309 Shears**



Number	L mm	g
8309-1002	120	35
8309-1004	140	40
8309-1006	160	50
8309-1008	180	60
8309-1010	200	70

**No.8313 Pincers**



● DIN ISO

Number	L mm	g
8313-1002	180	280

**No.8310 Tweezers**



Number	L mm	g
8310-1002	100	15
8310-1004	120	19
8310-1006	140	22
8310-1008	160	25
8310-1010	180	28
8310-1012	200	35
8310-1014	250	45
8310-1016	300	55

**No.8314 Pliers, Adjustable Combination**



● DIN ISO

Number	L mm	g
8314-1002	200	280

**No.8311 Pliers, Lineman**



● DIN ISO

Number	L mm	g
8311-1002	150	250
8311-1004	180	370
8311-1006	200	420

**No.8315 Pliers, Diagonal Cutting (American Type)**



● DIN ISO

Number	L mm	g
8315-1002	190	310

**No.8312 Pliers, Snipe Nose**



● DIN ISO

Number	L mm	g
8312-1002	165	185
8312-1004	178	210
8312-1006	200	230

**No.8316 Mini Pliers, Diagonal Cutting**



● DIN ISO

Number	L mm	g
8316-1002	150	130

### No.8317 Pliers, Slip Joint



● DIN ISO

Number	L mm	⚖ g
8317-1002	165	220
8317-1004	250	435
8317-1006	300	700

### No.8401 Hammer, Ball Pein



Number	H g	L mm	⚖ g
8401-1002	230	280	340
8401-1004	340	280	450
8401-1006	450	310	680
8401-1008	680	340	910
8401-1010	910	350	1130
8401-1012	1130	400	1400

### No.8401A Hammer, Ball Pein



Number	H g	L mm	⚖ g
8401A-1002	230	220	650
8401A-1004	340	220	770
8401A-1006	450	245	1080
8401A-1008	680	280	1450

### No.8402 Hammer, Pein



Number	H g	L mm	⚖ g
8402-1002	250	280	400
8402-1004	300	280	460

### No.8403 Hammer, Cross Pein Engineers'



Number	H g	L mm	⚖ g
8403-1002	500	310	500
8403-1004	1000	340	1000
8403-1006	1500	400	1500
8403-1008	2000	400	2000

### No.8403A Hammer, Cross Pein Engineers'



Number	H g	L mm	⚖ g
8403A-1002	500	245	1350
8403A-1004	1000	300	2500

### No.8403B Hammer, Cross Pein Engineers'



Number	H g	L mm	⚖ g
8403B-1002	250	220	500
8403B-1004	500	240	900
8403B-1006	750	280	1300
8403B-1008	400	240	800





**No.8404 Hammer, Testing**



Number	H g	L mm	g
8404-1002	150	280	270
8404-1004	250	280	345

**No.8405 Hammer, Scaling**



Number	H g	L mm	g
8405-1002	150	280	270
8405-1004	300	280	420

**No.8406 Hammer, Claw**



Number	H g	L mm	g
8406-1002	230	280	405
8406-1004	450	300	652
8406-1006	680	330	953



**No.8407 Hammer, Sledge**



Number	Size g	L mm	g
8407-1002	450	310	450
8407-1004	1000	400	1000
8407-1006	1400	400	1400
8407-1008	1500	400	1500
8407-1010	1800	400	1800
8407-1012	2000	400	2000
8407-1014	2200	400	2200
8407-1016	2500	700	2500
8407-1018	2700	700	2700

**No.8408 Hammer, Sledge (Germany Type)**



Number	H g	L mm	g
8408-1002	500	310	500
8408-1004	1000	400	1000
8408-1006	1500	400	1500
8408-1008	2000	400	2000



**No.8409 Shovel, Square**



Number	L mm	B mm	g
8409-1002	1400	190	1800
8409-1004	1450	250	2200

**No.8411 Hammer, Electric Welding**



Number	Size g	L mm	g
8411-1002	250	300	320

**No.8410 Shovel, Round Point**



Number	L mm	B mm	g
8410-1002	1450	240	1553

**No.8412 Club Hammer**



Number	Size lb	L mm	g
8412-1002	2	340	1000
8412-1004	4	400	2000

**No.8410A Dust Pan**



Number	L mm	B mm	g
8410A-1002	1450	270	2130

**No.8413 Nylon Hammer**



Number	Size g	L mm	g
8413-1002	800	350	1500
8413-1004	1000	400	2000

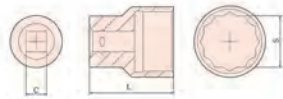
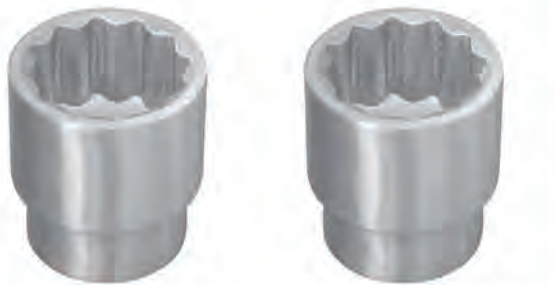


**No.8413A Nylon Hammer**



Number	Size g	L mm	g
8413A-1002	150	220	350
8413A-1004	250	220	500
8413A-1006	350	220	700
8413A-1008	500	240	900





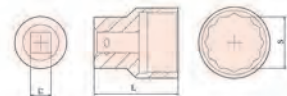
**No.8501 Socket (1/2")**

Number	S mm	L mm	g
8501-6	6	40	75
8501-7	7	40	77
8501-8	8	40	77
8501-9	9	40	78
8501-10	10	40	78
8501-11	11	40	79
8501-12	12	40	79
8501-13	13	40	80
8501-14	14	40	80
8501-15	15	40	94
8501-16	16	40	94
8501-17	17	40	94
8501-18	18	42	94
8501-19	19	42	110
8501-20	20	42	120
8501-21	21	43	125
8501-22	22	43	130
8501-23	23	43	150
8501-24	24	43	165
8501-25	25	43	180
8501-26	26	43	200
8501-27	27	46	215
8501-28	28	46	225
8501-29	29	46	235
8501-30	30	46	250
8501-32	32	46	295

**No.8502 Socket (3/8")**

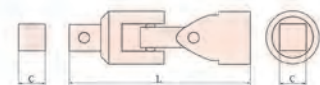
Number	S mm	L mm	g
8502-5	5	28	35
8502-5.5	5.5	28	35
8502-6	6	28	35
8502-7	7	28	35
8502-8	8	28	35
8502-9	9	28	35
8502-10	10	32	50
8502-11	11	32	50
8502-12	12	32	50
8502-13	13	32	50
8502-14	14	32	50
8502-15	15	32	53
8502-16	16	32	58
8502-17	17	32	63
8502-19	19	32	68
8502-20	20	32	77

**No.8503 Socket (3/4")**



Number	S mm	L mm	g
8503-17	17	50	245
8503-19	19	50	245
8503-21	21	55	265
8503-22	22	55	265
8503-24	24	55	305
8503-26	26	55	305
8503-27	27	55	310
8503-29	29	55	335
8503-30	30	60	350
8503-32	32	60	465
8503-34	34	60	480
8503-35	35	60	500
8503-36	36	60	510
8503-38	38	60	550
8503-41	41	65	660
8503-46	46	65	760
8503-50	50	70	900

**No.8504 Universal Joint**



Number	C inch	L mm	g
8504-1002	1/2	80	186
8504-1004	3/4	110	530
8504-1006	1	132	1000

### No.8505 Sliding T Handle



Number	C inch	L mm	H mm	Φ mm	⚖ g
8505-1002	1/2	250	39	13	340
8505-1004	3/4	350	54	19	1070
8505-1006	3/4	400	56	21	1335
8505-1008	1	400	62	21	1620

### No.8509 Speed Handle



Number	C inch	L mm	⚖ g
8509-1002	3/8	300	450
8509-1004	1/2	390	770

### No.8506 Hinged Handle



Number	C inch	L mm	L <sub>1</sub> mm	⚖ g
8506-1002	3/8	190	175	245
8506-1004	1/2	250	230	440
8506-1006	1/2	320	300	565
8506-1008	1/2	400	380	645
8506-1010	3/4	286	260	635
8506-1012	1	304	270	910

### No.8510 Flex Socket Wrench



Number	S1*S2 mm	L mm	⚖ g
8510-1002	8*9	200	100
8510-1004	10*11	210	120
8510-1006	12*13	230	170
8510-1008	14*15	240	200
8510-1010	16*17	250	280
8510-1012	18*19	270	390
8510-1014	20*22	290	470
8510-1016	21*23	290	480
8510-1018	24*27	330	760

### No.8507 Ratchet Wrench



Number	C inch	L mm	H mm	⚖ g
8507-1002	3/8	200	30	290
8507-1004	1/2	245	43	690
8507-1006	3/4	320	57	1570
8507-1008	1	550	67	3470

### No.8508 Offset Handle



Number	C inch	L mm	⚖ g
8508-1002	3/8	200	300
8508-1004	1/2	230	400
8508-1006	3/4	280	750

### No.8511 1/2" Dr Socket Set-13pcs



Number	Contents
8511	Socket 8mm, 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm Ratchet Wrench 245mm Hinged Handle 250mm Socket Case



## No.8512 1/2" Dr Socket Set-17pcs



Number	Contents
8512	Socket 10mm, 11mm, 12mm, 14mm, 17mm, 19mm, 22mm, 24mm, 27mm, 30mm, 32mm Ratchet Wrench 245mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Socket Case

## No.8514 Wrench, Socket L-Type



Number	S mm	L mm	g
8514-6	6	102	60
8514-8	8	114	95
8514-10	10	129	135
8514-12	12	144	180
8514-14	14	160	245
8514-17	17	187	365
8514-19	19	204	525
8514-22	22	230	700

## No.8513 1/2" Dr Socket Set-24pcs



Number	Contents
8513	Socket 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 27mm, 30mm, 32mm Ratchet Wrench 245mm Sliding T-Handle 250mm Speed Handle 400mm Driver Extension 125mm, 250mm Universal Joint 80mm

## No.8515 Driver Extension



Number	C inch	L mm	g
8515-1002	3/8	75	40
8515-1004	1/2	125	255
8515-1006	1/2	250	500
8515-1008	3/4	200	910

## No.8516 Lock Torque Wrench-Window Display



Number	C inch	Torque N.m	L mm	g
8516-1002	3/8	5-50	360	920
8516-1004	1/2	10-100	405	1020
8516-1008	1/2	20-200	500	1200
8516-1010	1/2	60-300	595	1330
8516-1012	3/4	150-750	1040	4930
8516-1014	1	200-1000	1253	8500

## No.8601 Knife, Common



Number	L mm	L <sub>1</sub> mm	g
8601-1002	80	190	75
8601-1004	137	250	95

## No.8602 Knife, Putty



Number	K mm	L mm	L <sub>1</sub> mm	g
8602-1002	25	90	200	75
8602-1004	40	90	200	95
8602-1006	50	90	200	105
8602-1008	65	90	200	115

## No.8603 Bar, Pinch



Number	L mm	Φ mm	B mm	g
8603-1002	500	16	16	800
8603-1004	500	18	18	1050
8603-1006	500	20	20	1300
8603-1008	500	22	22	1570
8603-1010	600	25	25	2350
8603-1012	800	25	25	3250
8603-1014	1000	30	30	5600

## No.8604 Chisel, Flat



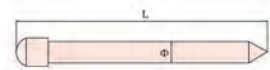
Number	L mm	Φ mm	B mm	g
8604-1002	160	14	14	175
8604-1004	160	16	16	231
8604-1006	160	18	18	295
8604-1008	200	18	18	382
8604-1010	200	20	20	473
8604-1012	250	24	24	822
8604-1014	300	24	24	1025
8604-1016	300	25	25	1302
8604-1018	400	25	25	1502
8604-1020	500	25	25	1903
8604-1022	500	30	30	2730

## No.8605 Wedge, Flange



Number	L mm	B mm	H mm	g
8605-1002	80	13	6	25
8605-1004	100	50	10	201
8605-1006	135	50	18	497
8605-1008	150	40	8	200
8605-1010	150	25	8	122
8605-1012	150	25	13	205
8605-1014	150	50	13	400
8605-1016	180	32	13	305
8605-1018	180	50	19	700
8605-1020	200	20	30	490
8605-1022	200	30	30	740
8605-1024	200	40	40	1315
8605-1026	200	50	12	500
8605-1028	230	40	20	751
8605-1030	250	40	30	1230
8605-1032	300	50	40	2460

## No.8606 Hearing Needle



Number	L mm	Φ mm	g
8606-1002	250	6	85
8606-1004	300	8	150
8606-1006	400	7	160
8606-1008	500	10	335
8606-1010	1000	10	650
8606-1012	800	10	525
8606-1014	500	8	220

## No.8607 Bucket



Number	Size L	H mm	g
8607-1002	15	280	2000



**No.8608 Bucket**



Number	Size L	H mm	g
8608-1002	10	250	1200
8608-1004	15	280	1550

**No.8609 Oil Funnel**



Number	Φ mm	H mm	g
8609-1002	160	130	260
8609-1004	160	150	280

**No.8610 Bucket**



Number	Size L	H mm	g
8610-1002	10	300	1680

**No.8611 Oil Dipper**



Number	Size ml	L mm	g
8611-1002	480	350	163

**No.8612 Portable Oil Pump**



Number	Φ mm	H mm	g
8612-1002	165	1100	2315

**No.8613 Dustpan**



Number	L mm	B mm	H mm	g
8613-1002	150	130	20	130
8613-1004	200	200	50	335
8613-1006	270	250	50	635

**No.8614 Manual Portable Oil pump**



Number	L mm	g
8614-1002	1350	3500

**No.8615 Releasing Static Device**



Number	L mm	⚖ g
8615-1002	1000	2000

**No.8616 C Clamps**



Number	K mm	⚖ g
8616-1002	50	900
8616-1004	75	1100
8616-1006	100	1400
8616-1008	150	2000
8616-1010	200	2700
8616-1012	250	3500
8616-1014	300	4300

**No.8617 Hacksaw**



Number	Size	L mm	⚖ g
8617-1002	300	470	800

**No.8618 Sliding Bar Clamp**



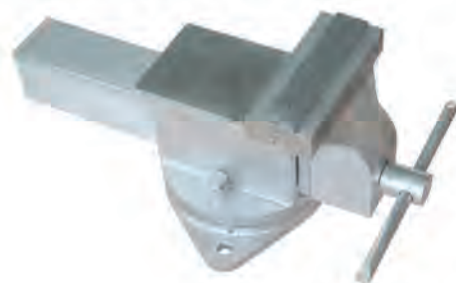
Number	Size mm	⚖ g
8618-1002	50*150	450
8618-1004	50*200	480
8618-1006	80*250	930
8618-1008	80*300	1035
8618-1010	80*400	1155
8618-1012	80*500	1300
8618-1014	120*600	2550
8618-1016	120*800	3000

**No.8619 Pry Bar (Wrecking Bar)**



Number	L mm	⚖ g
8619-1002	450	970
8619-1004	500	1100
8619-1006	600	1250
8619-1008	700	1500
8619-1010	750	1650
8619-1012	800	1700
8619-1014	900	1900

**No.8620 Heavy Duty Bench Vice**



Number	Size mm	⚖ kg
8620-1002	75	6.2
8620-1004	100	7
8620-1006	150	19.5
8620-1008	200	29.5
8620-1010	250	44.5



**No.8621 File, Flat (Heavy Type)**



Number	Size inch	B mm	L mm	H mm	⚖ g
8621-1002	8	20	325	5	490

**No.8625 File, Round**



Number	Size inch	Φ mm	L mm	⚖ g
8625-1002	8	7	325	420

**No.8622 File, Flat (Light Type)**



Number	Size inch	B mm	L mm	H mm	⚖ g
8622-1002	8	20	325	2.5	420

**No.8626 Screws**



Number	Size mm	⚖ g
8626-1002	M4*16	10
8626-1004	M5*20	15
8626-1006	M6*30	25
8626-1008	M8*50	35
8626-1010	M10*70	65
8626-1012	M12*70	90

**No.8623 File, Triangle**



Number	Size inch	B mm	L mm	⚖ g
8623-1002	8	12	325	400

**No.8627 Nuts**



Number	Size mm	⚖ g
8627-1002	M4	3
8627-1004	M5	4
8627-1006	M6	5
8627-1008	M8	8
8627-1010	M10	15
8627-1012	M12	20

**No.8624 File, Half Round**



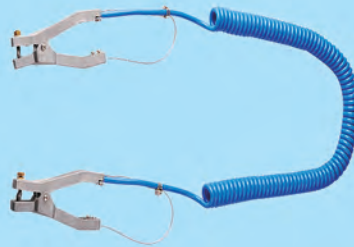
Number	Size inch	B mm	L mm	⚖ g
8624-1002	8	21	325	470



# Aluminum products



# Anti-static products





**No.9101 Bucket**

Usage: Fill all kinds of liquid and oil, non- spark oil barrels  
 Manufacturing Process: cold rolled products  
 Execution Standard: Q/ZBF - 9101  
 Specifications: 10 L, 20 L

**No.9104 Bucket**

Usage: Fill all kinds of liquid and oil, non- spark oil Bucket  
 Manufacturing process: cold rolled products  
 Execution standard: Q/ZBF - 9104  
 Specifications: 10 L, 15 L

**No.9102 Bucket**

Usage: Fill all kinds of liquid and oil, non- spark oil bucket with cover  
 Manufacturing Process: cold rolled products  
 Execution Standard: Q/ZBF - 9102  
 Specifications: 10 L, 20 L

**No.9105 Cadger**

Usage: Fill all kinds of liquid and oil, non- spark oil Can  
 Manufacturing process: cold rolled products  
 Execution standard: Q/ZBF - 9105  
 Specifications: 2 L

**No.9103 Bucket**

Usage: Fill all kinds of liquid and oil, non- spark fire bucket  
 Manufacturing process: cold rolled products  
 Execution standard: Q/ZBF - 9103  
 Specifications: 10 L, 15 L

**No.9106 Oil Funnel**

Usage: To convey liquids such as oil into small diameter container, non- spark oil funnel, safe and reliable.  
 Manufacturing process: cold rolled products  
 Execution standard: Q/ZBF - 9106  
 Specifications: top diameter 120mm, bottom diameter 50mm

**No.9107 Oil Tray**

Usage: To fill all kinds of liquid and oil, non-spark, safe and reliable

Manufacturing process: cold rolled products

Execution standard: Q/ZBF - 9107

Specifications: small, middle, large

**No.9203 Draggage Tape Of Tank Lorry**

Usage: this product is mainly used to transport the chemical dangerous goods vehicles, free to adjust the product length, keep the bottom of the effective contact with the ground, can prevent vehicles from fire explosion accident due to electrostatic.  
Specifications: length: 1.6 m, width: 55 mm, thickness: 8 mm (each with a free elastic clamp )

**No.9201 Flange Electrostatic Jumper**

Usage: used on both ends of the flange, bridge between each segment joints, wire and tube broken interface, photovoltaic panels, electric auxiliary allied to conduction potential, without electric current as normal using.

Specifications:  $\Phi$  10 -  $\Phi$  20 inches

Length: length 150-500 mm

**No.9204 Static Rope**

Usage: pure cotton cord, copper core, conductive fiber cotton rope

Specifications: 5, 10, 15, 20, 25, 30, 50 m each match copper hook

**No.9202 Static Flange Connecting**

Usage: used on both ends of the flange, bridge between each segment joints, wire and tube broken interface, photovoltaic panels, electric auxiliary allied to conduction potential, without electric current as normal using.

Specifications: 127\*127\*(05.-1)

**No.9205 Safe Rope**

Usage: high strength, good elasticity, easy installation, anti-corrosion, used for maintenance, installation, aerial work etc work site.

Specifications: 5, 10, 15, 20, 25, 30, 50 m, each with brass hooks



**No.9206 Double Static Grounding Clamp**



Usage: the mechanical structure used to remove the electrostatic from objects. Usually connected to the earthing piles or ground net. Clamp body by strong spring firmly on the object, and the sharp break paint thimble through object surface paint, stains etc insulation, enable to remove the accumulation of static electricity on the object, eliminate the potential electrostatic hazards. (with extra 5 meters rubber copper core wire)

**No.9209 Automatic Retractable Static Grounding Device**



Usage: can be automatically retraction and automatic locking device in the case, can control the length of the cable out and bounce back after. Good telescopic design to take up less space, easy to use. Enclosure protection device effectively avoid the wear of the cable, prolong service life, and the use of scale easily. 6 m telescopic work can flexibly fixed, not restricted by working space, cable length can be adjusted within the prescribed scope, swing can be 180 degrees scope of work. (with extra 5 meters 8 square meters electrostatic copper wire)

**No.9207 Single Static Grounding Clamp**



Usage: the mechanical structure used to remove the electrostatic from objects. Usually connected to the earthing piles or ground net. Clamp body by strong spring firmly on the object, and the sharp break paint thimble through object surface paint, stains etc insulation, enable to remove the accumulation of static electricity on the object, eliminate the electrostatic potential hazards. (with extra 5 meters rubber copper core wire)

**No.9210 Static Grounding Alarm**



Usage: using reliable integrated circuit, antistatic and alarm performance stability, the whole ground loop resistance from the clamp body to the grounding pile automatic monitoring, when resistance value over than predetermined value automatic alarm. (with extra 3 m rubber copper core wire for free)

**No.9208 Automatic Retractable Static Grounding Device**



Usage: the mechanical structure used to remove the electrostatic from objects. Fixed installation, automatic recovery of cables, the standard grounding clip line 5 meters, the product is intrinsically safe electrical equipment, with the good electrical conductivity. Eliminate potential electrostatic hazards. (with extra 5 meters 8 square meters electrostatic copper core wire)

**No.9211 Measuring Ruler**



Usage: suitable for measuring liquid level height of the various oil and other liquid products in the container, carbon steel rule bandwidth 12.5 mm  
Specification: 3, 5, 10, 15, 20, 25, 30, 50 m



# Brass Products





**No.B101 Pliers,Adjustable Combination**



Number	L inch	L mm	g
B101-1002	6	150	170

**No.B105 Sprue Puller Curred Head**



Number	L inch	L mm	g
B105-1002	7	175	230

**No.B102 Pliers,Adjustable Combination**



Number	L inch	L mm	g
B102-1002	8	200	260

**No.B106 Sprue Puller Serrated Jaw**



Number	L inch	L mm	g
B106-1002	7	175	170

**No.B103 Pliers,Needle Nose**



Number	L inch	L mm	g
B103-1002	8	200	200

**No.B107 Sprue Puller Serrated Jaw**



Number	L inch	L mm	g
B107-1002	10	250	450

**No.B104 Pliers, 45 Degree Needle Nose**



Number	L inch	L mm	g
B104-1002	8	200	200

**No.B108 Pliers,Groove Joint**



Number	L inch	L mm	g
B108-1002	10	250	410

**No.B201 Knife, Putty, Long Wood Handle**



Number	B mm	L mm	g
B201-1002	80	310	200

**No.B205 Knife, Putty, Bakelite Handle**



Number	B mm	L mm	g
B205-1002	75	200	130

**No.B202 Knife, Putty, Long Wood Handle**



Number	B mm	L mm	g
B202-1002	32	300	150

**No.B206 Knife, Putty, Multi-purpose Bakelite Handle**



Number	B mm	L mm	g
B206-1002	62	200	100

**No.B203 Spatula, Long Wood Handle**



Number	B mm	L mm	g
B203-1002	32	300	140

**No.B207 Knife, Putty, Narrow Blade Bakelite Handle**



Number	B mm	L mm	g
B207-1002	32	300	100

**No.B204 Spatula, Long Wood Handle**



Number	B mm	L mm	g
B204-1002	20	300	130





**No.B208 Scraper**



Number	L mm	B mm	H mm	g
B208-1002	902	50	2	683

**No.B209 Scraper, Flat**



Number	L mm	B mm	L <sup>1</sup> mm	g
B209-1002	200	30	325	330
B209-1004	300	30	430	480
B209-1006	350	35	490	640
B209-1008	350	50	490	1020
B209-1010	400	60	560	1520

**No.B210 Wedge, Flange**



Number	L mm	B mm	H mm	g
B210-1002	80	13	6	25
B210-1004	100	50	10	201
B210-1006	135	50	18	497
B210-1008	150	40	8	200
B210-1010	150	25	8	122
B210-1012	150	25	13	205
B210-1014	150	50	13	400
B210-1016	180	32	13	305
B210-1018	180	50	19	700
B210-1020	200	20	30	490
B210-1022	200	30	30	740
B210-1024	200	40	40	1315
B210-1026	200	50	12	500
B210-1028	230	40	20	751
B210-1030	250	40	30	1230
B210-1032	300	50	40	2460

**No.B211 Shovel, Square**



Number	L mm	B mm	H mm	g
B211-1002	940	190	340	1410
B211-1004	990	250	420	1804

**No.B212 Hearing Needle**



Number	L mm	Φ mm	g
B212-1002	250	6	85
B212-1004	300	8	150
B212-1006	400	7	160
B212-1008	500	10	335

**No.B301 Wrench, Bung**



Number	L mm	H mm	g
B301-1002	300	70	630

**No.B302 Wrench, Bung**



Number	L mm	H <sub>1</sub> mm	H <sub>2</sub> mm	g
B302-1002	350	70	95	1165

# HEBEI BOTOU SAFETY TOOLS CO., LTD.

ZBFB20100101

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## Quality Guarantee

We guarantee to our customers as below:

1. We will repair or replace the products free of charge from defects in material and workmanship under normal use, against receipt.
2. All the products are manufactured strictly in accordance with Germany DIN Standard and National Standard, and successfully certified by TÜV Rheinland, FM Approvals and ISO 9001 Quality System Certification.
3. We guarantee all products we manufactured are 100% qualified and backed by Lifetime Warranty for:
  - a. Non-sparking tools: Non spark properties of material.
  - b. Titanium tools: Non magnetic properties of material.

Exceptions:

1. Defects or damage resulting from mis-use, abuse, improper use or normal service wear.
2. Corrosion, rusting, peeling or surface scratch due to improper storage. Damage of the plastic handle or packing material like cartons, plastic case, paper card, etc. due to overuse.
3. Specific products stipulated by the company.

If you have any query with the terms and conditions, or didn't get satisfactory service from the authorized distributors, please visit our website at [www.safetytools.com.cn](http://www.safetytools.com.cn) for more information.

The company reserves the right of final interpretation for the above content.