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INFAR®
INFAR INDUSTRIAL CO., LTD.
SINCE 1978

INFAR®
INFAR INDUSTRIAL CO., LTD.
SINCE 1978

TAIWAN FACTORY

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40th anniversary
INFAR®
**MECHANIC
TOOL BOOK
2018**

GEARTECH®

TRADITIONAL

MECHANIC

WORDS FROM THE PRESIDENT

Before founding INFAR in 1978, I had been in the wood business and eel business for several years. As I saw changes in the market, I was constantly concerned with the instability for both businesses. Wood is vulnerable to fires and floods harm the eel business.

On some occasions, I learned that there was a hand tool shortage from several friends including a foreign friend of mine who waited half a year for the wrenches he purchased. After analyzing the annual export data of Taiwan, I realized that the hand tools industry had high annual growth rates. This gave me a solid standing ground to start my business. The steadily growth and expansion of INFAR for the past 40 years has proven this model to be successful. INFAR is now the premier supplier of many prestigious and well-known international brands.

The expansion and investment INFAR has made for the past few decades had helped us accomplish vertical integration. INFAR has total control of the products we produce, which is the reflection of our motto **"Be self-dependent, self-sufficient and self-reliant"**. When Infar has total control on the products we produce, our customers will also have control of the quality products they purchase and sell.

INFAR aims to become the best hardware manufacturer globally, thus striving to provide premium quality tools with short production time and reasonable prices to our valuable customers. To achieve this goal, we constantly challenge ourselves on improving the production process and product quality; this is best highlighted for example, by the investment we made in our trivalent chromium plating facility in 2012. This new facility has helped us stay on top of the European Union's environmental regulations and the eco-trend around the world.

The global hand tool market has matured greatly over the past few decades. With more competitors joining the market, hand tool producers have to differentiate their products with new technologies and innovations in order to keep up with the market. The ratchet wrench is a great example. It revolutionized people's views on wrenches and created a whole new market. With great ambition, INFAR has 20 engineers and designers fully dedicated to new products innovation and technologies. **"You either keep moving forward or get stagnant"**. We motivate ourselves on being the pioneers of the industry.

With self-integrated production and Taiwan's industrial agglomeration, we are confident that INFAR can be the one-stop shop for our customers, whether you are looking for a traditional wrench, ratchet wrench, ratchet handles, sockets or tool sets.

We thank our customers for putting their trust in us, their business and their long-term support. Without them, we would not be where we are today. We look forward to building strong relationships with future business partners and strategic alliances. Keep helping to maximize the interests on the value chain, and together, we grow and prosper.

Ander Chen
Chen, Ander



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INTRODUCTION

Founded in 1978, Infar Industrial Co., Ltd. is a self-integrated manufacturer with 350 people in Taiwan, and is capable of producing 25 million pieces of wrenches per year.

In 1993, Kunshan Infar was built with the maximum output of 45 million pieces of traditional wrenches per year.

In 2004, another plant was set up in Taiwan to facilitate the production of sockets, ratchet handles, and tool sets. The complete range of products ensures that our customers can always find the right products to meet their various demands.

Certificates -

Infar has been an ISO 9001 certified manufacturer since 1994, and acquired VPA GS certificate in the year of 2004.

Product lines -

Our product lines include all types of traditional wrenches, 72 teeth Geartech® wrench series, 144tip Geartech® wrench series, ratchets handles, sockets, adapters, and tool sets.

Research and Development -

Our 20 R&D staffs have an averaged of ten years experiences in product, packaging and mould designs, graphic drawing, and new product inventions.

Quality Assurance and technical support -

There are 30 Q.C. staffs at Infar. They use spectrum analyzers to research the compositions of the incoming raw materials. Hardness and torque testing machines are utilized throughout the manufacturing processes to ensure the compliance of ANSI, DIN, VPA GS, or ISO standards. Seven inspection stands are located at the end of every production process to inspect and control the product quality. The quality stability of Infar made products is second to none!

Service and Support -

Existing samples are available by courier in five days. New developed product samples are available within 45 days after drawings and specifications are confirmed. Orders are accepted via e-mail or fax. Payments by L/C or T/T are accepted. We also provide insurance, shipping control, quality inspection, and documentary services.

OEM and ODM customers are highly welcome for business partnership.

Guarantees -

In order to ensure after-sale service of our products, we offer life-time guarantee on our products.

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Geartech®'s deeper teeth enable stronger torque.



Other Brand



FLAT DRIVE RING
Maximum contact on flats



STANDARD RING
Contact at points

Dual flat drive technology on box end to maximize contact on fasteners.



WARNING:

Always wear ANSI approved safety goggles when working with wrenches and equipment. Do not use the wrenches as striking tools. Never work on live electrical circuits.

INFAR®
INFAR INDUSTRIAL CO., LTD.

ENVIRONMENT-FRIENDLY PLATING SURFACE

**TRIVALENT CHROME RoHS
CONFORMITY FINISH**



2013 We set up the new automotive equipment for trivalent chrome plating. This is the start we try to manufacture environment-friendly products which reach RoHS.

2014 We launched our mass production of trivalent chrome plating. Until now, most of INFAR's products are plated with RoHS conformity finish.

We have received a plenty of positive feedback from our customers. Now, INFAR sincerely invites you to join this 'Green Family'!



The luster of trivalent chrome plated products is naturally darker than that of hexavalent chrome products.

OPTIONAL FEATURE OF GEARTECH® RATCHET WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space; **144tip** provides Geartech® Wrench with more movement.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.

OPTIONAL RATCHET RING



Star Box End



Diphylla Box End



Spline Box End



12PT Box End

OPTIONAL RATCHET HEAD



72 Teeth
Reversible Ratchet Head



72 Teeth / 144tip
Flexible Ratchet Head



72 Teeth / 144tip
One Way Ratchet Head

OPTIONAL PANEL



Twist Panel



Flat Panel

OPTIONAL SURFACE

- Mirror Finish
- Matt Finish
- Micro Satin Finish
- Color Electro-deposition Finish

OPTIONAL OPEN END



Metric & Inch Open End



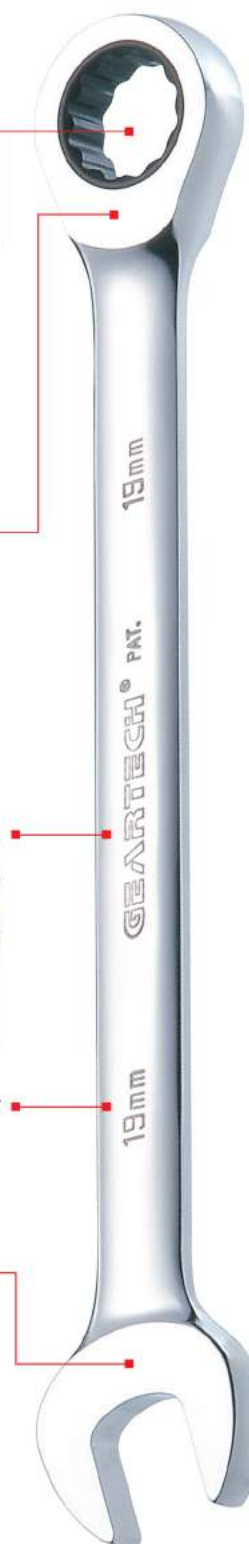
Speedy Open End



Non-slip Open End



Regular Open End





NUT BOLT STATUS	STANDARD	DIPHYLLEIA BOX DESIGN
 Intact		
 30% Round Off		
 65% Round Off		
 80% Round Off		

 Size (inch)	Wt. (g)	L (mm)	 Size (mm)	Wt. (g)	L (mm)
5/16	34	136	8	35	136
3/8	54	160	9	40	143
7/16	70	168	10	55	160
1/2	91	180	11	72	168
9/16	120	193	12	79	174
5/8	157	216	13	93	180
11/16	183	233	14	120	193
3/4	220	250	15	134	200
			16	153	216
			17	188	233
			18	199	239
			19	238	250

NEW

NEW INNOVATION RATCHET 144TIP GEARTECH® RATCHET WRENCH

INFAR®

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- 144tip provides Geartech® Wrench with more movement.
- Extra long panel helps to reach deeper space.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



144tip provides wrench with more movement.

144TIP GEARTECH® EXTRA LONG COMBINATION WRENCH

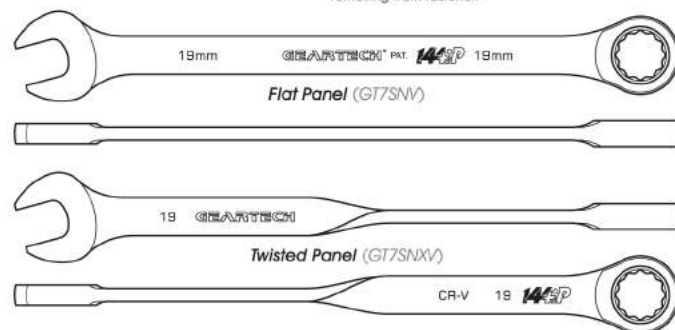
MEETS OR EXCEEDS
A.N.S.I.
STANDARDS



GT7SNV/GT7SNXV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Flat Panel / Twisted Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	41	150	6	41	150	22	360	330
5/16	39	150	7	41	150	23	350	330
3/8	64	180	8	38	150	24	480	355
7/16	78	195	9	45	165	25	490	355
1/2	112	220	10	65	180	26	490	355
9/16	139	235	11	77	195			
5/8	191	260	12	88	207			
11/16	223	275	13	110	220			
3/4	270	305	14	143	235			
13/16	370	330	15	170	250			
7/8	360	330	16	189	260			
15/16	475	355	17	227	275			
1"	490	355	18	240	290			
			19	275	305			
			20	370	330			
			21	360	330			



NEW

NEW INNOVATION RATCHET 144TIP GEARTECH® RATCHET WRENCH

GEARTECH®

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- 144tip provides Geartech® Wrench with more movement.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



144tip provides wrench with more movement.



144TIP GEARTECH® COMBINATION WRENCH

MEETS OR EXCEEDS
A.N.S.I.
STANDARDS



GT7V

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	36	136	6	36	136
5/16	34	136	7	36	136
3/8	54	160	8	35	136
7/16	70	168	9	40	143
1/2	91	180	10	55	160
9/16	120	193	11	72	168
5/8	157	216	12	79	174
11/16	183	233	13	93	180
3/4	220	250	14	120	193
13/16	350	286	15	134	200
7/8	345	286	16	153	216
15/16	485	325	17	188	233
1"	470	325	18	199	239
			19	238	250
			20	360	285
			21	350	285
			22	340	285
			23	330	285
			24	470	325
			25	460	325
			26	460	325



144TIP FLEX HEAD GEARTECH® COMBINATION WRENCH

MEETS OR EXCEEDS
A.N.S.I.
STANDARDS



FXGT7V

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	41	136	6	41	136
5/16	39	136	7	39	136
3/8	62	160	8	39	136
7/16	77	168	9	47	143
1/2	108	180	10	62	160
9/16	130	193	11	78	168
5/8	186	216	12	88	174
11/16	205	233	13	106	180
3/4	265	250	14	126	193
13/16	390	285	15	145	200
7/8	380	285	16	183	216
15/16	550	325	17	208	233
1"	540	325	18	233	239
			19	260	250
			20	390	285
			21	395	285
			22	395	285
			23	390	285
			24	550	325
			25	550	325
			26	540	325

INFAR®

RATCHET OPEN END WRENCH



Ratchet open end allows wrench to travel without removing from fastener.



15° offset box end helps to reduce swing obstacles and to minimize knuckle fatigue.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Ratchet open end allows wrench to travel without removing from fastener.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



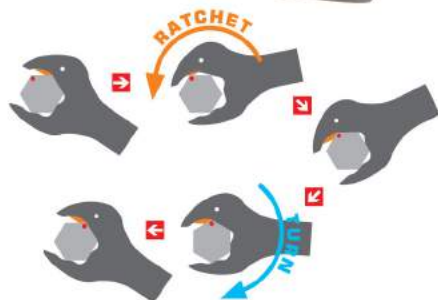
PR-TYPE RATCHET OPEN END WRENCH

PRQ3



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 15° Offset Box End
12 Point / 6 Point / Spline Box
Ratchet Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	29	136	8	29	136
3/8	50	161	10	50	161
7/16	58	168	11	58	168
1/2	79	180	12	70	174
9/16	109	193	13	79	180
5/8	133	207	14	109	193
11/16	166	227	15	130	200
3/4	226	250	16	133	207
			17	166	227
			18	197	239
			19	226	250



Ratchet open end allows wrench to travel without removing from fastener.



15° offset box end for knuckle clearance.

GEARTECH®

RATCHET OPEN END WRENCH



Ratchet head allows wrench to travel without removing from fastener.



Designed to work on a variety of fittings, such as fuel, brake, and air conditioning lines.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Ratchet open end & ratchet head allows wrench to travel without removing from fastener.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



GEARTECH® RATCHET OPEN END WRENCH

GT4Q3V



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Ratchet Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	33	136	8	33	136
3/8	55	160	10	55	160
7/16	70	168	11	70	168
1/2	98	180	12	81	174
9/16	121	193	13	98	180
5/8	161	216	14	123	193
11/16	189	233	15	139	200
3/4	235	250	16	162	216
			17	192	233
			18	211	239
			19	235	250

GERMAN-TYPE FLARE NUT & RATCHET OPEN END WRENCH

GFV6Q3



GERMANY EXCLUSIVE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 13° Offset Flare Nut Drive
Ratchet Open End

Size (mm)	Wt. (g)	L (mm)
10	57	161
11	69	168
12	93	174
13	107	180
14	117	193
15	134	200
16	147	207
17	188	227
18	217	239
19	239	250



13° offset flare nut drive for knuckle clearance.

NEW

INNOVATION RATCHET WHIRLING FIT RATCHET HANDLE

INFAR®

GEARTECH®

CONSTRUCTION WRENCH



Reversible switch enables ratchet to move from either direction without sacrificing overall surface head.

Pull and twist knob to select the desired fastener size, no need for additional sockets.

Curved grip helps to reduce swing obstacles and minimize knuckle fatigue.

Ratchet ring allows construction wrench to travel without removing from fastener.

Tapered handle helps locate & align bolts.

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **Reversible switch** enables ratchet to move from either direction.
- **120 teeth** need only 3° for each turn.
- **Anti-slip TPV & PP handle** generates more power without slipping.
- **Curved grip** helps to reduce swing obstacles and minimize knuckle fatigue.
- **1 ratchet** fits 10 metric (10-19mm) & 7 inch (3/8"-3/4") commonly used sizes.
- Pull and twist knob to select the desired fastener size.
- No need for additional sockets.
- Superior life-time test.



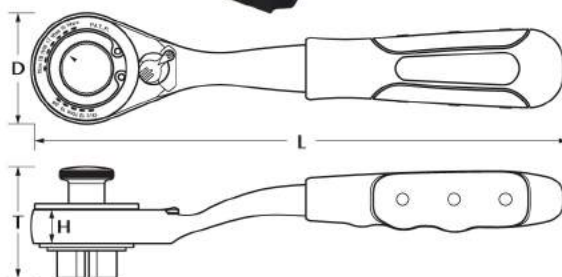
3° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.



1 ratchet fits 10 metric & 7 inch sizes.
metric x10 | 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
Inch x7 | 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"



WHIRLING FIT RATCHET HANDLE

Material | Chrome Vanadium Steel
 Surface | Mirror Finish
 Feature | 120 Teeth
 TPV & PP Handle

RAT033B

Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
536	49	45.5	15.0	237

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents construction wrenches from corrosion.
- Best design for construction work.
- Strong torque for heavy work.
- Superior life-time test.

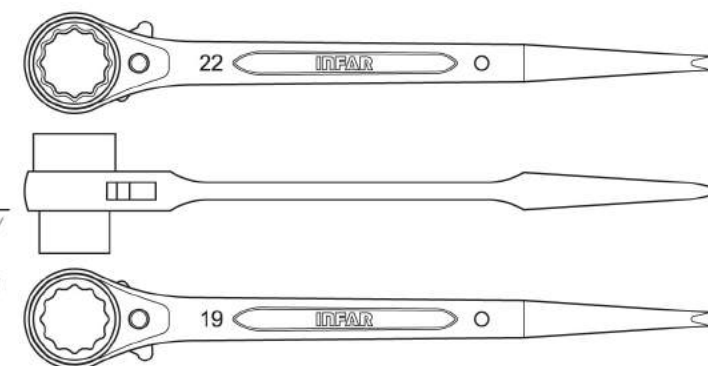


REGULAR STYLE CONSTRUCTION WRENCH

CSA / CSV



Material | Medium Carbon / Chrome Vanadium Steel
 Surface | Black Color Electro-deposition / Matt / Micro Satin / Black Oxide Finish
 Feature | Long Ratchet Ring Fits 2 Sizes
 Tapered Handle



Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
10x12	174	225	19x21	418	310	24x27	728	365	46x50	3116	550
10x13	176	225	19x22	432	310	24x30	1212	400			
11x13	174	225	21x22	714	310	26x32	1214	400			
12x14	172	225	18x24	753	365	27x30	1212	400			
13x16	274	267	19x24	744	365	27x32	1212	400			
13x17	270	267	21x23	716	365	30x32	1178	400			
14x17	260	267	21x26	722	365	30x36	1534	445			
17x19	430	310	22x24	742	365	32x35	1510	445			
17x21	424	310	22x27	750	365	32x36	1482	445			
17x22	430	310	23x26	744	365	36x41	3470	490			

CONSTRUCTION WRENCH



Ratchet ring allows construction wrench to travel without removing from fastener.

Tapered handle helps locate & align bolts.

Retractable nail puller helps extract nails that are bent, or driven in the spot.

Hammer section helps move stubborn bolts.

CONSTRUCTION WRENCH

Ratchet ring allows construction wrench to travel without removing from fastener.

Tapered handle helps locate & align bolts.

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents construction wrenches from corrosion.
- Best design for construction work.
- Strong torque for heavy work.
- Superior life-time test.



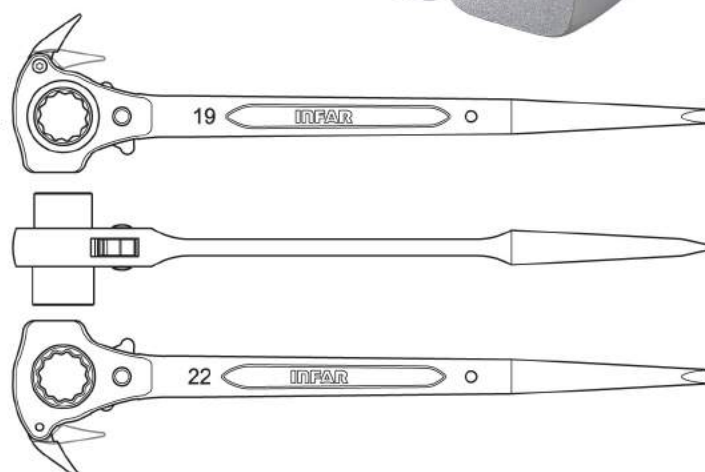
CONSTRUCTION WRENCH WITH NAIL PULLER



Material | Chrome Vanadium Steel
Surface | Black Color Electro-deposition / Matt / Micro Satin / Black Oxide Finish
Feature | Long Ratchet Ring Fits 2 Sizes
Tapered Handle
Retractable Nail Puller
Hammer Section

Size (mm)	Wt. (g)	L (mm)
17x19	-	311.6
17x21	-	311.6
19x21	-	311.6
19x22	457	311.6

CS2V



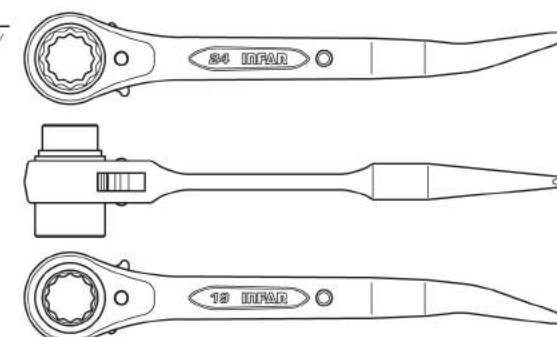
CONSTRUCTION WRENCH WITH BENT SPEAR



Material | Chrome Vanadium Steel
Surface | Black Color Electro-deposition / Matt / Micro Satin / Black Oxide Finish
Feature | Long Ratchet Ring Fits 2 Sizes
Bent Tapered Handle

Size (mm)	Wt. (g)	L (mm)
19x24	384	245
21x24	375	245

CS3V



RATCHET SCREWDRIVER

45 TEETH
8°

8° reversible ratcheting mechanism.

Ratchet mechanism has 3 working positions: forward, reverse, and locked.

TPR & PP ergonomic handle.

Work with 1/4" drive or hex socket accessories.



Removable end-cap allows convenient storage of 6 bits.

RATCHET SCREWDRIVER

Material | TPR & PP Ergonomic Grip
Feature | 45 Teeth

RSH

Size (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	336	131/108



8x 1/4" Hex Ratchet Screwdriver Set

PVC Tray + PVC Case + Card

Content 1x 1/4" Dr & Hex 45T Ratchet Screwdriver
1x 1/4" Hex 90mm Extension Bit Holder
6x 1/4" Hex 25mm Bits (Cr-V) Clip-on End-cap:
PH1, PH2, PH3, SL4, SL6, 1/4" Dr Adapter

By using only one hand, the handle can be transformed into an ergonomic pistol grip when higher torque application is required.



FINGER RATCHET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents finger ratchets from corrosion.
- Finger Ratchet can be used as a ratcheting finger driver or a bit driver when using with a Quick Release Adapter or Bit Adapter.
- 72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.

72 TEETH
5°

5° space requirement for each turn.



FINGER RATCHET

ANSI
A.N.S.I.
STANDARDS

12 POINT

PGB
JAPAN EXCLUSIVE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | One Way Ratchet Ring

Item No.	Size (inch)	Wt. (g)	D (mm)	H (mm)	Item No.	Size (mm)	Wt. (g)	D (mm)	H (mm)
PGBS0012S	3/8	23	27.1	7.7	PGBS0010M	10	23	27.1	7.7
PGB0012S	3/8	38	33.0	7.7	PGB0010M	10	38	33.0	7.7
PGB0016S	1/2	41	33.0	9.3	PGB0013M	13	41	33.0	9.3



18x 1/4" Dr Socket Set

Blow Mould Case + Color Sleeve + POF

18x SAE 1x 3/8" Finger Ratchet

1x 1/4" Dr x3/8" Quick Release Adapter
3x 1/4" Dr Extension Bars: 50, 100, 150mm
13x 1/4" Dr SAE Sockets: (6PT)
5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32",
7/16", 15/32", 1/2", 9/16"

18x MM 1x 10mm Finger Ratchet

1x 1/4" Dr x10mm Quick Release Adapter
3x 1/4" Dr Extension Bars: 50, 100, 150mm
13x 1/4" Dr Metric Sockets: (6PT)
4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm



QUICK RELEASE ADAPTER

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents adapters from corrosion.
- **Socket quick release system** for easy socket changes.
- Superior life-time test.

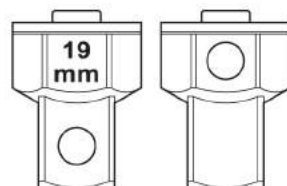


QUICK RELEASE ADAPTER

Material | Chrome Vanadium Steel
Surface | Mirror Finish

QRAD3

Drive (inch)	Size (inch)	Wt. (g)	L (mm)	Drive (inch)	Size (mm)	Wt. (g)	L (mm)
1/4 (6.35mm)	3/8	7.0	17.5	1/4 (6.35mm)	10	7.0	17.5
3/8 (9.5mm)	1/2	17.2	22.5	1/4 (6.35mm)	13	12.8	20.5
1/2 (12.7mm)	3/4	46.6	29.5	3/8 (9.5mm)	13	17.2	22.5
				1/2 (12.7mm)	19	46.6	29.5



TO USE QUICK RELEASE ADAPTER

- Quick Release Adapter converts Geartech® Wrench to a compact quick release ratchet handle.



5x Finger Ratchet Set

EVA Tray + ABS Case + PVC Single Blister + Cardboard

5x SAE 2x SAE Finger Ratchets: 3/8", 1/2"

2x Quick Release Adapters: 1/4" Dr x3/8", 3/8" Dr x1/2"

1x 1/4" Hex x3/8" Bit Adapter

5x MM 2x Metric Finger Ratchets: 10, 13mm

2x Quick Release Adapters: 1/4" Dr x10mm, 3/8" Dr x13mm

1x 1/4" Hex x10mm Bit Adapter



4x Adapter Set

EVA Tray + ABS Case + PVC Single Blister + Cardboard

4x SAE 3x Quick Release Adapters:

1/4" Dr x3/8", 3/8" Dr x1/2", 1/2" Dr x3/4"

1x 1/4" Hex x3/8" Bit Adapter

4x MM 3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

ADAPTER

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents adapters from corrosion.

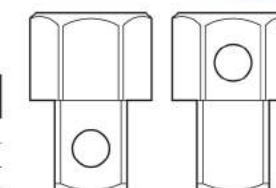


ADAPTER

Material | Chrome Vanadium Steel
Surface | Black Oxide Finish

AD

Drive (inch)	Size (inch)	Wt. (g)	L (mm)	Drive (inch)	Size (mm)	Wt. (g)	L (mm)
1/4 (6.35mm)	3/8	10.5	21.5	1/4 (6.35mm)	10	10.5	21.5
3/8 (9.5mm)	1/2	24.5	26.5	3/8 (9.5mm)	13	24.5	26.5
1/2 (12.7mm)	3/4	52.0	29.5	1/2 (12.7mm)	19	52.0	29.5



TO USE ADAPTER

- Adapter converts Geartech® Wrench to a compact ratchet handle.



- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents adapters from corrosion.

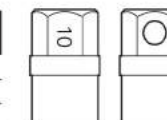


BIT ADAPTER

Material | Chrome Vanadium Steel (50BV30)
Surface | Mirror / Black Oxide Finish

BAD

Hex (inch)	Size (inch)	Wt. (g)	L (mm)	Hex (inch)	Size (mm)	Wt. (g)	L (mm)
1/4 (6.35mm)	3/8	10.6	19.5	1/4 (6.35mm)	10	10.6	19.5



TO USE BIT ADAPTER

- Bit Adapter converts Geartech® Wrench to a compact ratchet screwdriver.



GO THROUGH SOCKET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents sockets from corrosion.
- Go Through Socket works together with Geartech® Wrench, allowing socket to travel the length of threads where traditional socket can't reach.



GO THROUGH SOCKET



TSK

Material | Chrome Vanadium Steel
Surface | Mirror Finish

Size (mm)	Wt. (g)	L (mm)
10	34	38
11	32	38
12	37	38
13	40	38
14	39	38
15	52	38
16	53	38
17	63	38
18	69	38
19	66	38



23x Metric Go Through Socket Set

PS Tray + Metal Case + Color Sleeve + POF

23x MM 10x Metric Geartech® Combination Wrenches:

10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

10x Metric Go Through Sockets:

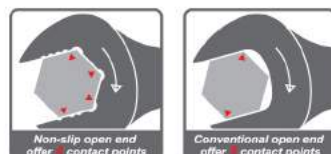
10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

GEARTECH® COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Specially designed open end gets better nuf friction and minimizes slippery.



GEARTECH® COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End

GT4V



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.

Size (inch)	Wt. (g)	L (mm)	Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	36	136	1-5/16	-	425	6	36	136	22	340	285
5/16	34	136	1-3/8	-	482	7	36	136	23	330	285
3/8	54	160	1-7/16	1450	482	8	35	136	24	470	325
7/16	70	168	1-1/2	-	482	9	40	143	25	460	325
1/2	91	180	1-5/8	-	550	10	55	160	26	-	325
9/16	120	193	1-13/16	-	640	11	72	168	27	580	359
5/8	157	216	1-7/8	-	640	12	79	174	28	-	359
11/16	183	233	2	-	640	13	93	180	30	940	425
3/4	220	250				14	120	193	32	900	425
13/16	350	286				15	134	200	34	1470	482
7/8	345	286				16	153	216	36	1460	482
15/16	485	325				17	188	233	38	-	482
1"	470	325				18	199	239	41	1985	550
1-1/16	610	359				19	238	250	46	-	640
1-1/8	985	425				20	360	285	50	3085	640
1-1/4	950	425				21	350	285			

GEARTECH® SPLINE BOX END WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Spline ratchet ring** works on all fastener types.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



GEARTECH® SPLINE BOX END WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Spline Ratchet Ring
Regular / Non-slip Open End

GT4SPV

Size (inch/star)	Wt. (g)	L (mm)	Size (mm/star)	Wt. (g)	L (mm)
5/16 E10	35	136	8 E10	35	136
3/8 E12	54	160	9 -	40	143
7/16 E14	66	168	10 E12	54	160
1/2 E16	95	180	11 E14	66	168
9/16 E18	119	193	12 -	82	174
5/8 E20	151	216	13 E16	95	180
11/16 E22	188	233	14 E18	119	193
3/4 E24	218	250	15 -	138	200
13/16 -	350	285	16 E20	151	216
7/8 E28	345	285	17 E22	188	233
			18 -	197	239
			19 E24	218	250
			21 -	350	285
			22 E28	340	285

COMPARATIVE TABLE

AVAILABLE SIZES OF DIFFERENT FASTENERS

- Spline ratchet ring works on all fastener types.



Size (mm/inch)	Size (mm/inch)	Size (mm)	Size (star)
8 5/16	7 9/32	8 E10	-
9 11/32	8 5/16	9 -	-
10 3/8	- 11/32	10 E12	-
11 7/16	9 3/8	11 E14	-
12 15/32	10 13/32	12 -	-
13 1/2	11 7/16	13 E16	-
14 9/16	12 15/32	14 E18	-
15 19/32	- 1/2	15 -	-
16 5/8	13 17/32	16 E20	-
17 11/16	14 9/16	17 E22	-
18 -	15 19/32	18 -	-
19 3/4	16 5/8	19 E24	-
21 13/16	18 11/16	21 -	-
22 7/8	19 3/4	22 E28	-

GEARTECH® METRIC & INCH COMBINATION WRENCH

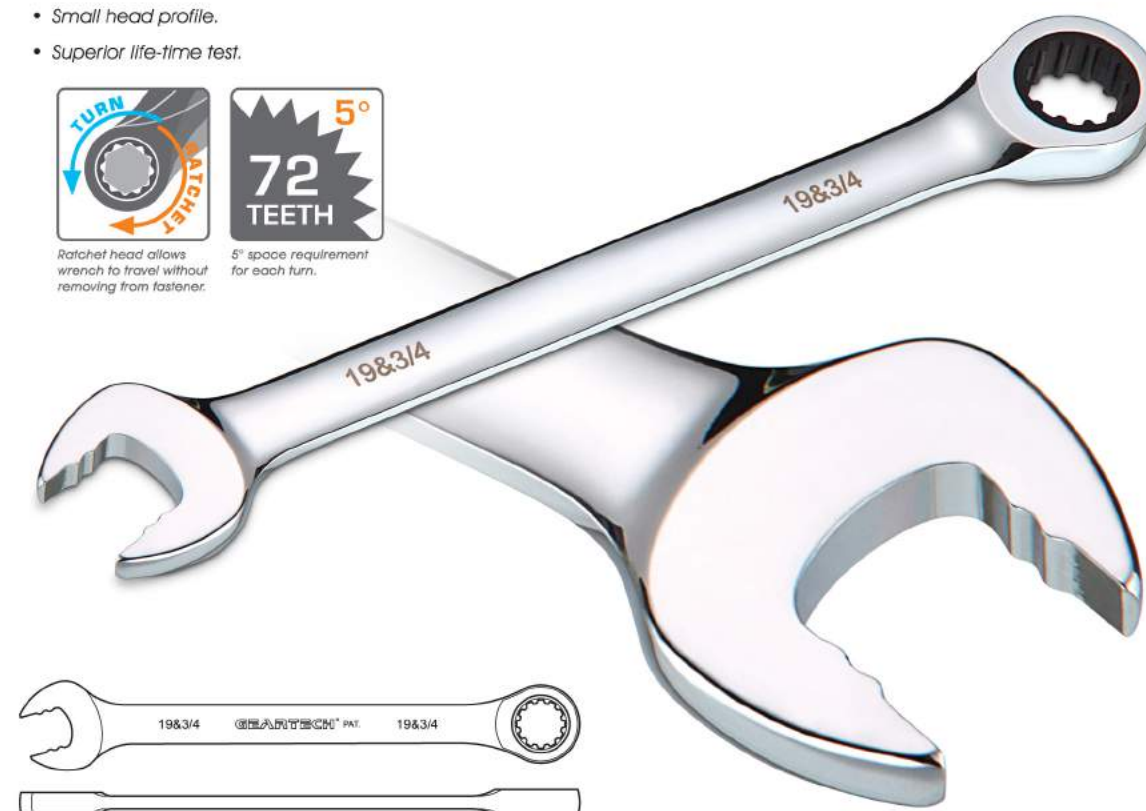
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- One wrench fits **Metric & Inch** Sizes - double the value of the wrench.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



GEARTECH® METRIC & INCH COMBINATION WRENCH



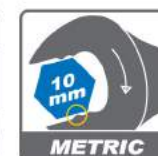
Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Spline Ratchet Ring
Metric & Inch Open End

GT4SPSMV

Size (inch/mm)	Wt. (g)	L (mm)
5/16 8	-	136
3/8 10	-	160
7/16 11	-	168
1/2 13	-	180
9/16 14	-	193
5/8 16	-	216
11/16 17	-	233
3/4 19	-	250
13/16 21	-	285
7/8 22	-	285



INCH



METRIC

Each open end fits Metric & Inch Sizes.

GEARTECH® SPEEDY OPEN END WRENCH

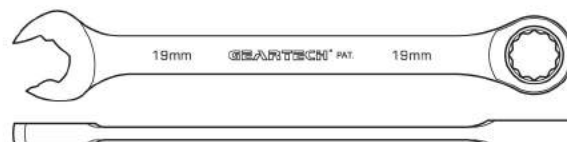
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Speedy open end & ratchet head** allows wrench to travel without removing from fastener.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



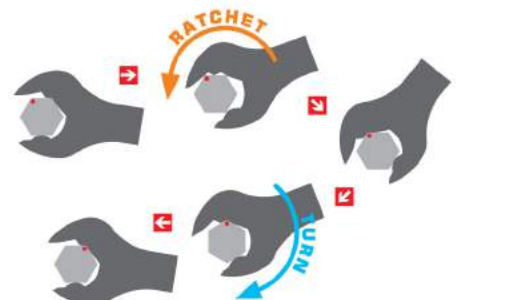
GEARTECH® SPEEDY OPEN END WRENCH

GT4Q2V



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Speedy Open End

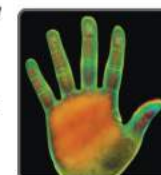
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	36	136	8	36	136
3/8	54	160	9	40	143
7/16	69	168	10	54	160
1/2	92	180	11	69	168
9/16	121	193	12	79	174
5/8	152	216	13	92	180
11/16	187	233	14	121	193
3/4	232	250	15	132	200
			16	152	216
			17	187	233
			18	194	239
			19	232	250



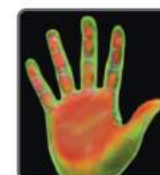
Speedy open end allows wrench to travel without removing from fastener.

ERGONOMIC GEARTECH® COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- Whole piece wrench is forged along with patented **Ergonomic Handle** to reduce the user fatigue.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Heat spectrum diagram after using ergonomic wrench for two hours.



Heat spectrum diagram after using regular wrench for two hours.



ERGONOMIC GEARTECH® COMBINATION WRENCH

GT4TPV



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Regular / Non-slip Open End
Colorful TPR Ergonomic Handle

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	38	136	6	38	136
5/16	38	136	7	38	136
3/8	60	160	8	38	136
7/16	76	168	9	46	143
1/2	99	180	10	60	160
9/16	132	193	11	76	168
5/8	162	216	12	87	174
11/16	213	233	13	99	180
3/4	243	250	14	132	193
			15	145	200
			16	162	216
			17	213	233
			18	210	239
			19	243	250



ERGONOMIC GEARTECH® SPEEDY OPEN END WRENCH

GT4TPQ2V



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Speedy Open End
Colorful TPR Ergonomic Handle

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	38	136	8	38	136
3/8	63	160	9	46	143
7/16	76	168	10	63	160
1/2	104	180	11	76	168
9/16	134	193	12	85	174
5/8	167	216	13	104	180
11/16	216	233	14	134	193
3/4	245	250	15	143	200
			16	167	216
			17	216	233
			18	210	239
			19	245	250

GEARTECH® TWIST COMBINATION WRENCH

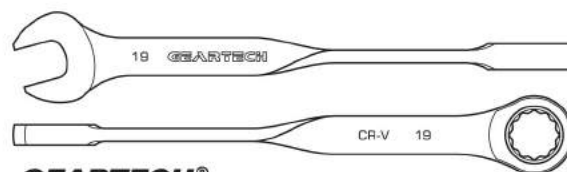
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



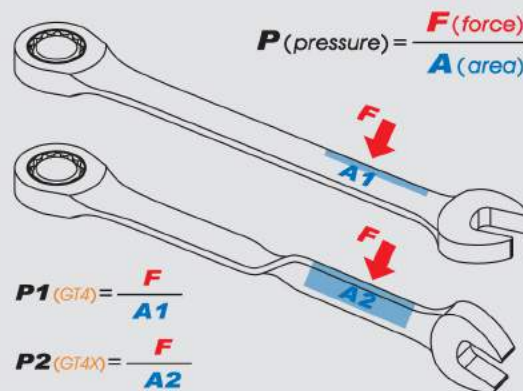
GEARTECH® TWIST COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Regular / Non-slip Open End
Twisted Panel

FUNCTION INTRODUCTION
TWISTED PANEL

- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.



$$P1 (GT4) = \frac{F}{A1}$$

$$P2 (GT4X) = \frac{F}{A2}$$

$$F = P1 (GT4) \times A1 \quad F = P2 (GT4X) \times A2$$

$$P1 (GT4) \times A1 = P2 (GT4X) \times A2$$

$$A1 < A2 \Rightarrow P1 (GT4) < P2 (GT4X)$$

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	36	136	6	36	136	22	340	285
5/16	34	136	7	36	136	23	330	285
3/8	54	160	8	35	136	24	470	325
7/16	70	168	9	40	143	25	460	325
1/2	91	180	10	55	160	26	-	325
9/16	120	193	11	72	168			
5/8	157	216	12	79	174			
11/16	183	233	13	93	180			
3/4	220	250	14	120	193			
13/16	350	286	15	134	200			
7/8	345	286	16	153	216			
15/16	485	325	17	188	233			
1"	470	325	18	199	239			
1-1/16	610	359	19	238	250			
1-1/8	985	425	20	360	285			
1-1/4	950	425	21	350	285			

GEARTECH® EXTRA LONG COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Extra long panel** helps to reach deeper space.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.

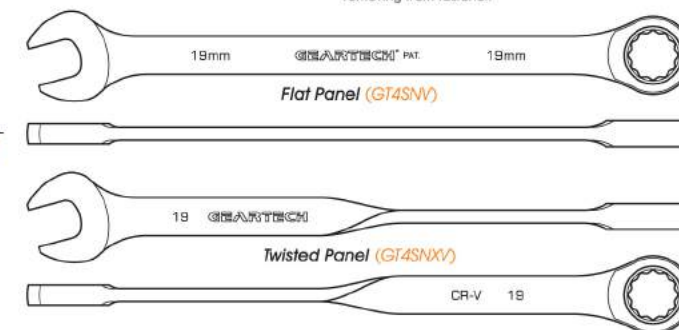


5° space requirement for each turn.

GEARTECH® EXTRA LONG COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Regular / Non-slip Open End
Flat Panel / Twisted Panel



Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	41	150	6	41	150	22	360	330
5/16	39	150	7	41	150	23	350	330
3/8	64	180	8	38	150	24	480	355
7/16	78	195	9	45	165	25	490	355
1/2	112	220	10	65	180	26	490	355
9/16	139	235	11	77	195			
5/8	191	260	12	88	207			
11/16	223	275	13	110	220			
3/4	270	305	14	143	235			
13/16	370	330	15	170	250			
7/8	360	330	16	189	260			
15/16	475	355	17	227	275			
1"	490	355	18	240	290			
			19	275	305			
			20	370	330			
			21	360	330			

GEARTECH® STUBBY COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



GEARTECH® STUBBY COMBINATION WRENCH



GT4SSNV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point / Spline Ratchet Ring
Regular / Non-slip Open End
Stubby Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	24	88	6	24	88
5/16	23	88	7	24	88
3/8	42	96	8	23	88
7/16	50	100	9	42	96
1/2	65	108	10	41	96
9/16	81	114	11	50	100
5/8	108	122	12	56	104
11/16	122	128	13	64	108
3/4	154	138	14	83	114
			15	94	118
			16	108	122
			17	123	128
			18	141	132
			19	153	138



7x Geartech® Stubby Combination Wrench Set

PP Window Holder + Label

7x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

7x MM 10, 12, 13, 14, 15, 17, 19mm



10x Geartech® Stubby Combination Wrench Set

PVC Double Blister + Label

10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

GEARTECH® DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



GEARTECH® DOUBLE BOX WRENCH



GT4BXV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point Ratchet Ring

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	50	128	8x9	51	128
3/8x7/16	69	150	8x10	48	128
7/16x1/2	100	170	10x11	69	150
1/2x11/16	-	170	10x13	-	160
1/2x3/4	166	170	11x13	99	170
9/16x5/8	145	190	12x13	100	170
11/16x3/4	225	230	13x17	-	170
3/4x15/16	450	290	13x19	165	170
13/16x15/16	450	290	14x15	147	190
7/8x1"	450	290	14x16	146	190
			16x18	229	230
			17x19	226	230
			19x24	450	290
			20x24	450	290
			21x24	450	290
			22x24	450	290

STAR E-TYPE GEARTECH® DOUBLE BOX WRENCH



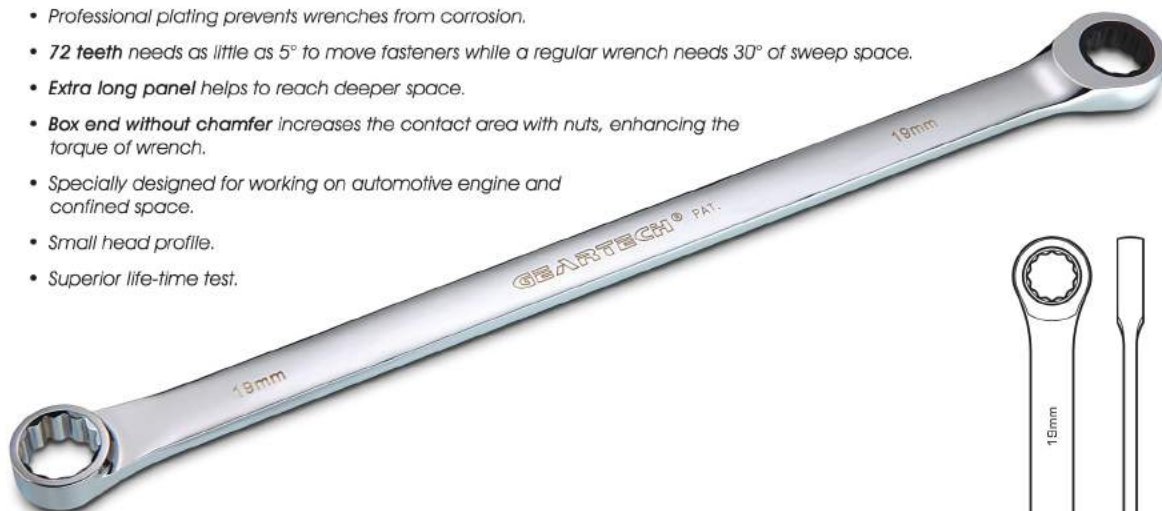
GT4EV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Star Ratchet Ring

Size (star)	Wt. (g)	L (mm)
E6xE8	55	128
E10xE12	76	150
E14xE18	157	190
E20xE24	235	230

L-TYPE GEARTECH® EXTRA LONG DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Extra long panel** helps to reach deeper space.
- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.
- Specially designed for working on automotive engine and confined space.
- Small head profile.
- Superior life-time test.



L-TYPE GEARTECH® EXTRA LONG DOUBLE BOX WRENCH

MEETS OR EXCEEDS
A.N.S.I. 12
STANDARDS POINT

GT4LBXV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
12 Point Ratchet Ring & Box
Flat Offset Box End & One Side without Chamfer
Extra Long Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	60	222	8	60	222
3/8	87	242	9	70	227
7/16	101	252	10	86	242
1/2	149	286	11	101	252
9/16	178	306	12	120	268
5/8	245	349	13	147	286
11/16	291	374	14	180	306
3/4	375	397	15	205	324
			16	239	349
			17	292	374
			18	319	385
			19	382	397



Ratchet head allows
wrench to travel without
removing from fastener.



5° space requirement
for each turn.



Revolution Box End



Regular Box End

FUNCTION INTRODUCTION FLAT OFFSET BOX END & ONE SIDE WITHOUT CHAMFER

- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.

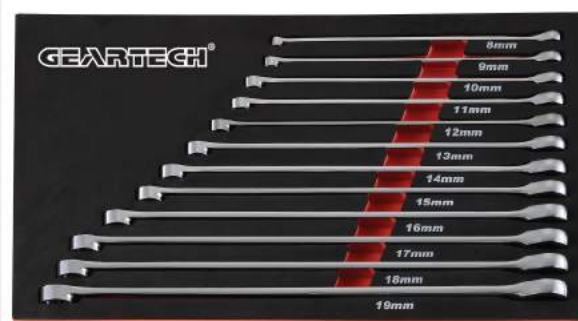


One side box end
without chamfer



One side box end
with chamfer

Box end without chamfer fits all types of corrupted nuts.



L-type Geartech® Extra Long Double Box Wrench Set

EVA Tray + Corrugated Paper + POF

12x MM 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

8x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

GEARTECH® WRENCH ASSORTMENT



4x Geartech® Combination Wrench Set

EVA Tray + Wooden Case + Color Box + POF

4x SAE 3/8", 7/16", 1/2", 9/16"

4x MM 10, 12, 13, 14mm



7x Geartech® Combination Wrench Set

Blow Mould Case + Label

7x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM 8, 10, 12, 13, 14, 15, 18mm

Geartech® Combination Wrench Set

Blow Mould Case + Color Sleeve

8x MM 8, 10, 12, 13, 15, 17, 18, 19mm

12x MM 8x Geartech® Combination Wrenches:

8, 10, 12, 13, 15, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

13x MM 9x Geartech® Combination Wrenches:

8, 10, 12, 13, 14, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

10x MM 8, 10, 12, 13, 14, 17, 19, 21, 22, 24mm

14x MM 10x Geartech® Combination Wrenches:

8, 10, 12, 13, 14, 17, 19, 21, 22, 24mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

12x MM 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

16x MM 12x Geartech® Combination Wrenches:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter



INFAR®

GEARTECH®

GEARTECH® WRENCH ASSORTMENT

Geartech® Combination Wrench Set

PP Rack (PAT.P) + Label

- 13x SAE** (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
- 12x MM** (XL) 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- 11x SAE** (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"
- 11x MM** (XL) 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm
- 10x MM** (XL) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- 9x SAE** (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 9x MM** (XL) 10, 11, 12, 13, 14, 15, 16, 17, 19mm
- 8x SAE** (XL) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 8x MM** (XL) 8, 10, 12, 13, 14, 15, 17, 19mm
- 7x SAE** (XL) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"
- 7x MM** (XL) 8, 10, 12, 13, 14, 17, 19mm
- 6x SAE** (XL) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"
- 6x MM** (XL) 8, 10, 12, 13, 14, 17mm
- 5x SAE** (XL) 3/8", 7/16", 1/2", 9/16", 5/8"
- 5x MM** (XL) 10, 12, 13, 14, 15mm
- 5x MM** (S) 8, 10, 13, 17, 19mm
- 4x SAE** (S) 3/8", 7/16", 1/2", 9/16"
- 4x MM** (S) 10, 12, 13, 14mm



Geartech® Combination Wrench Set

PP Try Me Rack (PAT.P) + Label

- 7x SAE** (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"
- 7x MM** (M) 8, 10, 12, 13, 14, 17, 19mm
- 6x SAE** (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"
- 6x MM** (M) 8, 10, 12, 13, 14, 17mm
- 5x SAE** (M) 3/8", 7/16", 1/2", 9/16", 5/8"
- 5x MM** (M) 10, 12, 13, 14, 15mm



Geartech® Double Box Wrench Set

PP Rack (PAT.P) + Label

- 6x MM** (M) 8x9, 10x11, 12x13, 14x15, 16x18, 17x19mm
- 5x MM** (S) 8x10, 10x11, 12x13, 14x15, 17x19mm
- 4x SAE** (S) 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"
- 4x MM** (S) 8x10, 12x13, 14x15, 17x19mm
- 4x Star** (S) E6xE8, E10xE12, E14xE18, E20xE24



GEARTECH® WRENCH ASSORTMENT

8x Geartech® Ratchet Open End Wrench Set

New PP Rack + Label

- 8x SAE** 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 8x MM** 8, 10, 11, 12, 13, 14, 17, 19mm



Geartech® Combination Wrench Set

EVA Tray + Cardboard + POF

EVA Tray + POF + Metal Case + Color Sleeve + POF

- 12x MM** 5x Geartech® Combination Wrenches:
8, 10, 13, 17, 19mm
- 2x Quick Release Adapters:
1/4" Dr x10mm, 1/2" Dr x19mm
- 1x 1/4" Hex x10mm Bit Adapter
- 12x MM** 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- 16x MM** 12x Geartech® Combination Wrenches:
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- 3x Quick Release Adapters:
1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm
- 1x 1/4" Hex x10mm Bit Adapter



GEARTECH® WRENCH ASSORTMENT

Geartech® Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"**8x MM** (L) 8, 10, 12, 13, 14, 15, 17, 19mm (L)**7x SAE** (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"**7x MM** (L) 10, 12, 13, 14, 15, 17, 19mm**5x SAE** (S) 5/16", 3/8", 7/16", 1/2", 9/16"**5x MM** (S) 10, 12, 13, 14, 15mm**5x MM** (L) 8, 10, 13, 17, 19mm**4x SAE** (S) 3/8", 7/16", 1/2", 9/16"**4x MM** (S) 10, 12, 13, 14mm

Geartech® Double Box Wrench Set

PP Small Try Me Tray + Cardboard + Label

5x MM (L) 8x10, 10x11, 12x13, 14x15, 17x19mm**4x SAE** (L) 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"**4x MM** (L) 8x10, 12x13, 14x15, 17x19mm**4x Star** (L) E6xE8, E10xE12, E14xE18,

E20xE24



Geartech® Stubby Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (S) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"**8x MM** (S) 8, 10, 12, 13, 14, 15, 17, 19mm**7x SAE** (S) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"**7x MM** (S) 10, 12, 13, 14, 15, 17, 19mm**5x MM** (S) 8, 10, 13, 17, 19mm

GEARTECH® WRENCH ASSORTMENT

Geartech® Combination Wrench Set

PS Tray + Card + PCF

7x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"**7x MM** 8, 10, 12, 13, 14, 17, 19mm

144tip Geartech® Extra Long Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (XL) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"**8x MM** (XL) 8, 10, 12, 13, 14, 15, 17, 19mm (L)**7x SAE** (XL) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"**7x MM** (XL) 10, 12, 13, 14, 15, 17, 19mm**5x SAE** (XLS) 5/16", 3/8", 7/16", 1/2", 9/16"**5x MM** (XLS) 10, 12, 13, 14, 15mm**5x MM** (XL) 8, 10, 13, 17, 19mm**4x SAE** (XLS) 3/8", 7/16", 1/2", 9/16"**4x MM** (XLS) 10, 12, 13, 14mm

GEARTECH® WRENCH ASSORTMENT

FLEX HEAD GEARTECH® COMBINATION WRENCH

7x Geartech® Combination Wrench Set

ABS Holder + Label

7x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM 10, 12, 13, 14, 15, 17, 19mm

Geartech® Combination Wrench Set

ABS Holder + Label

8x SAE (3) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (3) 8, 10, 12, 13, 14, 15, 17, 19mm

7x SAE (3) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (3) 10, 12, 13, 14, 15, 17, 19mm

6x SAE (3) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (3) 10, 12, 13, 14, 15, 17mm

5x SAE (3) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (3) 10, 12, 13, 14, 15mm

4x SAE (3) 3/8", 7/16", 1/2", 9/16"

4x MM (3) 10, 12, 13, 14mm

Geartech® Double Box Wrench Set

ABS Holder + Label

6x MM (3) 8x9, 10x11, 12x13, 14x15, 16x18, 17x19mm

5x MM (3) 8x10, 10x11, 12x13, 14x15, 17x19mm

4x SAE (3) 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"

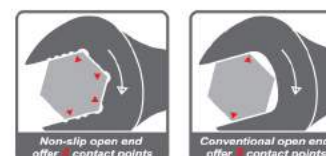
4x MM (3) 8x10, 12x13, 14x15, 17x19mm

4x Star (3) E6xE8, E10xE12, E14xE18, E20xE24

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Flexible head tilts 180° at any interval with continuous head tension.



Specially designed open end gets better nut friction and minimizes slippage.



FLEX HEAD GEARTECH® COMBINATION WRENCH



FXGT4V

Material | Chrome Vanadium Steel
 Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
 Feature | 180° Flexible Ratchet Head
 12 Point Ratchet Ring
 Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	41	136	6	41	136	22	395	285
5/16	39	136	7	39	136	23	390	285
3/8	62	160	8	39	136	24	550	325
7/16	77	168	9	47	143	25	550	325
1/2	108	180	10	62	160	26	540	325
9/16	130	193	11	78	168	27	-	359
5/8	186	216	12	88	174	28	-	359
11/16	205	233	13	106	180	30	-	425
3/4	265	250	14	126	193	32	-	425
13/16	390	285	15	145	200			
7/8	380	285	16	183	216			
15/16	550	325	17	208	233			
1"	540	325	18	233	239			
1-1/16	-	359	19	260	250			
1-1/8	-	425	20	390	285			
1-1/4	-	425	21	395	285			



5° space requirement for each turn.



Ratchet head allows wrench to travel without removing from fastener.

FLEX HEAD GEARTECH® SPEEDY OPEN END WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- **Speedy open end & ratchet head** allows wrench to travel without removing from fastener.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



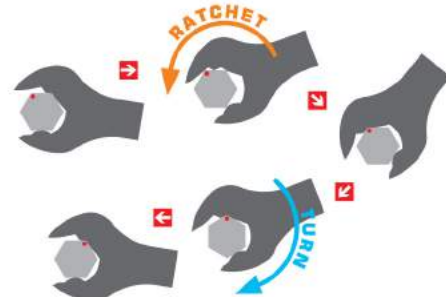
FLEX HEAD GEARTECH® SPEEDY OPEN END WRENCH

FXGT4Q2V



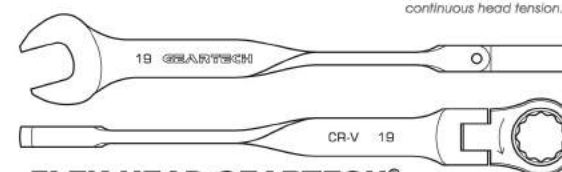
Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring
Speedy Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	39	136	8	39	136
3/8	62	160	9	47	143
7/16	77	168	10	62	160
1/2	108	180	11	78	168
9/16	130	193	12	88	174
5/8	186	216	13	106	180
11/16	205	233	14	126	193
3/4	265	250	15	145	200
			16	183	216
			17	208	233
			18	233	239
			19	259	250



FLEX HEAD GEARTECH® TWIST COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



FLEX HEAD GEARTECH® TWIST COMBINATION WRENCH

FXGT4XV



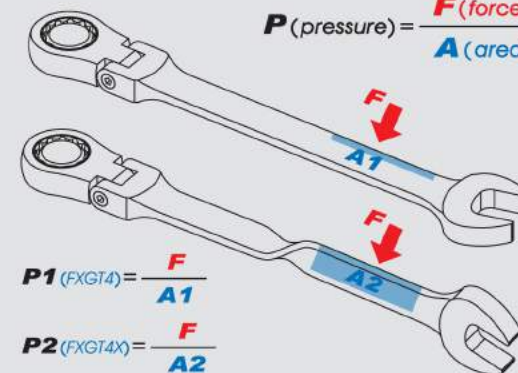
Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Twisted Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	41	136	6	41	136
5/16	39	136	7	39	136
3/8	62	160	8	39	136
7/16	77	168	9	47	143
1/2	108	180	10	62	160
9/16	130	193	11	78	168
5/8	186	216	12	88	174
11/16	205	233	13	106	180
3/4	265	250	14	126	193
13/16	390	285	15	145	200
7/8	380	285	16	183	216
15/16	550	325	17	208	233
1"	540	325	18	233	239
1-1/16	-	359	19	260	250
1-1/8	-	425	20	390	285
1-1/4	-	425	21	395	285

FUNCTION INTRODUCTION
TWISTED PANEL

- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.

$$P(\text{pressure}) = \frac{F(\text{force})}{A(\text{area})}$$



$$P1(\text{FXGT4}) = \frac{F}{A1}$$

$$P2(\text{FXGT4X}) = \frac{F}{A2}$$

$$F = P1(\text{FXGT4}) \times A1 \quad F = P2(\text{FXGT4X}) \times A2$$

$$P1(\text{FXGT4}) \times A1 = P2(\text{FXGT4X}) \times A2$$

$$A1 < A2 \Rightarrow P1(\text{FXGT4}) < P2(\text{FXGT4X})$$



5° space requirement for each turn.

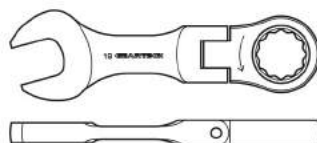


INFAR®

GEARTECH®

FLEX HEAD GEARTECH® STUBBY COMBINATION WRENCH

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Flexible head tilts 180° at any interval with continuous head tension.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.

FLEX HEAD GEARTECH® STUBBY COMBINATION WRENCH

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

12 POINT

FXGT4SSNV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Stubby Panel

Size (Inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	32	88	6	32	88
5/16	32	88	7	32	88
3/8	48	96	8	31	88
7/16	58	100	9	42	96
1/2	81	108	10	46	96
9/16	96	114	11	58	100
5/8	128	122	12	69	104
11/16	148	128	13	79	108
3/4	188	138	14	96	114
			15	110	118
			16	127	122
			17	150	128
			18	166	132
			19	188	138



Flex Head Geartech® Stubby Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (US) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (US) 8, 10, 12, 13, 14, 15, 17, 19mm

7x SAE (US) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (US) 10, 12, 13, 14, 15, 17, 19mm

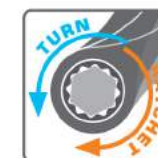
5x MM (US) 8, 10, 13, 17, 19mm

FLEX HEAD GEARTECH® DOUBLE BOX WRENCH

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Flexible head tilts 180° at any interval with continuous head tension.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



FLEX HEAD GEARTECH® DOUBLE BOX WRENCH

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

12 POINT

FXGT4BXV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring

Size (Inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	-	125	8x10	62	125
3/8x1/2	-	167	10x11	89	149
7/16x1/2	-	169	10x12	92	150
9/16x5/8	-	190	10x13	108	167
11/16x3/4	-	230	11x13	-	169
			12x13	126	170
			12x14	128	173
			14x15	170	188
			14x16	-	190
			14x17	199	210
			16x18	258	227
			17x19	285	230



FLEX HEAD GEARTECH® STUBBY DOUBLE BOX WRENCH

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

12 POINT

FXGT4SSNBXV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring
Stubby Panel

Size (Inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	62	125	8x10	62	125
7/16x1/2	108	145	10x11	-	134
9/16x5/8	167	168	10x12	-	135
11/16x3/4	244	185	11x13	107	145
			12x13	111	146
			12x14	-	155
			14x15	157	163
			14x16	167	165
			14x17	-	175
			16x18	230	182
			17x19	242	185

INFAR®

LOCKING FLEX HEAD GEARTECH® COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- 180° flex head has **13 locking positions**.
- **Locking switch.**
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



LOCKING FLEX HEAD GEARTECH® COMBINATION WRENCH

MEETS OR EXCEEDS
A.N.S.I. STANDARDS 12 POINT

FXGT4KV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
13 Locking Positions on Flexible Head
12 Point Ratchet Ring
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	-	136	8	-	136
3/8	-	160	9	-	143
7/16	-	168	10	-	160
1/2	-	180	11	-	168
9/16	-	193	12	88	174
5/8	-	216	13	103	180
11/16	-	233	14	132	193
3/4	-	250	15	150	200
			16	-	216
			17	206	233
			18	-	239
			19	258	250



Flexible head tilts 180° at any interval with continuous head tension.



Locking Switch.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.

GEARTECH®

H-TYPE LOCKING FLEX HEAD GEARTECH® DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- 180° flex head has **13 locking positions**.
- **Locking switch.**
- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.
- **15° offset traditional box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



15° offset box end for knuckle clearance.



Revolution Box End

Regular Box End



H-TYPE LOCKING FLEX HEAD GEARTECH® DOUBLE BOX WRENCH

MEETS OR EXCEEDS
A.N.S.I. STANDARDS 12 POINT

FXGT4PKV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
13 Locking Positions on Flexible Head
12 Point Ratchet Ring / Box
15° Offset Box End without Chamfer

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	-	131	8	40	131
3/8	-	145	9	-	138
7/16	-	152	10	57	145
1/2	-	171	11	-	152
9/16	-	185	12	-	159
5/8	-	215	13	-	171
11/16	-	232	14	122	185
3/4	-	249	15	147	199
			16	-	215
			17	196	232
			18	-	240
			19	263	249

FUNCTION INTRODUCTION BOX END WITHOUT CHAMFER

- Box end without chamfer increases the contact area with nuts, enhancing the torque of wrench.



Box end without chamfer fits all types of corrupted nuts.

H-TYPE FLEX HEAD GEARTECH® DOUBLE BOX WRENCH

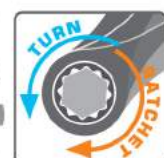
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.
- **15° offset traditional box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



15° offset box end for knuckle clearance.



Flexible head tilts 180° at any interval with continuous head tension.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.



H-TYPE FLEX HEAD GEARTECH® DOUBLE BOX WRENCH

MECHANIC
A.N.S.I.
STANDARD
12 POINT

FXGT4HV
JAPAN EXCLUSIVE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring / Box
15° Offset Box End without Chamfer

Size (mm)	Wt. (g)	L (mm)
10	62	140
12	90	157
13	108	173
14	128	189
17	210	232

FUNCTION INTRODUCTION
BOX END WITHOUT CHAMFER

- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.



Box End without Chamfer

Regular Box End

Box end without chamfer fits all types of corrupted nuts.

FLEX HEAD GEARTECH® WRENCH ASSORTMENT



7x Flex Head Geartech® Combination Wrench Set

Blow Mould Case + Label

7x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM 8, 10, 12, 13, 14, 15, 18mm

Flex Head Geartech® Combination Wrench Set

Blow Mould Case + Color Sleeve

13x MM 9x Geartech® Combination Wrenches:

8, 10, 12, 13, 14, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

12x MM 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

16x MM 12x Geartech® Combination Wrenches:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

Flex Head Geartech®
Combination Wrench Set

ABS Holder + Label

7x SAE (1) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (1) 10, 12, 13, 14, 15, 17, 19mm

6x SAE (3) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (3) 10, 12, 13, 14, 15, 17mm

5x SAE (3) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (3) 10, 12, 13, 14, 15mm

FLEX HEAD GEARTECH® WRENCH ASSORTMENT

Flex Head Geartech® Combination Wrench Set

PP Rack (PAT.P.) + Label

13x SAE (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8", 15/16", 1"

12x MM (XL) 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

11x SAE (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8"

11x MM (XL) 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm

10x MM (L) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

9x SAE (L) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

9x MM (L) 10, 11, 12, 13, 14, 15, 16, 17, 19mm

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm

7x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (M) 8, 10, 12, 13, 14, 17, 19mm

6x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (M) 8, 10, 12, 13, 14, 17mm

5x SAE (M) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (M) 10, 12, 13, 14, 15mm

5x MM (S) 8, 10, 13, 17, 19mm

4x SAE (S) 3/8", 7/16", 1/2", 9/16"

4x MM (S) 10, 12, 13, 14mm



Flex Head Geartech® Combination Wrench Set

PP Try Me Rack (PAT.P.) + Label

7x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (M) 8, 10, 12, 13, 14, 17, 19mm

6x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (M) 8, 10, 12, 13, 14, 17mm

5x SAE (M) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (M) 10, 12, 13, 14, 15mm



8x Flex Head Geartech® Combination Wrench Set

New PP Rack + Label

8x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM 8, 10, 11, 12, 13, 14, 17, 19mm

FLEX HEAD GEARTECH® WRENCH ASSORTMENT

Flex Head Geartech® Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm (L)

7x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (L) 10, 12, 13, 14, 15, 17, 19mm

5x SAE (S) 5/16", 3/8", 7/16", 1/2", 9/16"

5x MM (S) 10, 12, 13, 14, 15mm

5x MM (L) 8, 10, 13, 17, 19mm

4x SAE (S) 3/8", 7/16", 1/2", 9/16"

4x MM (S) 10, 12, 13, 14mm



Flex Head Geartech® Double Box Wrench Set

PP Small Try Me Tray + Cardboard + Label

5x MM (L) 8x10, 10x11, 12x13, 14x15, 17x19mm

4x SAE (L) 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"

4x MM (L) 8x10, 12x13, 14x15, 17x19mm



Flex Head Geartech® Combination Wrench Set

PVC Double Blister + Label

6x SAE 4x Flex Head Geartech® Combination Wrenches:

3/8", 7/16", 1/2", 9/16"

2x Quick Release Adapters:

1/4" Dr x 3/8", 3/8" Dr x 1/2"

6x MM 4x Flex Head Geartech® Combination Wrenches:

10, 12, 13, 14mm

2x Quick Release Adapters:

1/4" Dr x 10mm, 3/8" Dr x 13mm

4x SAE 3/8", 7/16", 1/2", 9/16"

4x MM 10, 12, 13, 14mm



FLEX HEAD GEARTECH® WRENCH ASSORTMENT

13x Flex Head Geartech® Combination Wrench Set

PS Tray + Metal Case + Color Sleeve

13x MM 10x Flex Head Geartech® Combination Wrenches:

10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm



7x Flex Head Geartech® Combination Wrench Set

PS Tray + Card + POF

7x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM 8, 10, 12, 13, 14, 17, 19mm

Flex Head Geartech® Combination Wrench Set

EVA Tray + Cardboard + POF

EVA Tray + POF + Metal Case + Color Sleeve + POF

12x MM 5x Geartech® Combination Wrenches:

8, 10, 13, 17, 19mm

2x Quick Release Adapters:

1/4" Dr x10mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

12x MM 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

16x MM 12x Geartech® Combination Wrenches:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

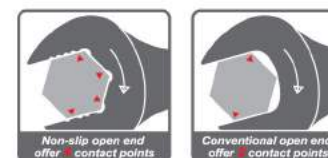
1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

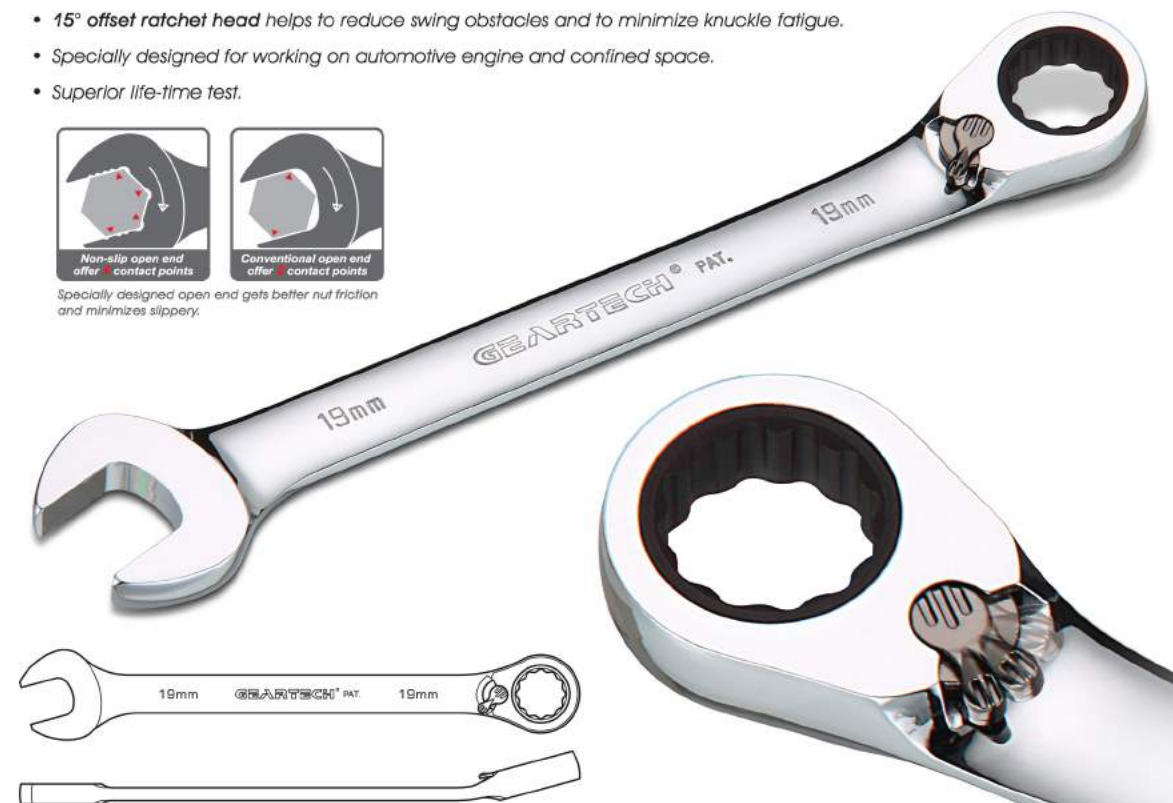


REVERSIBLE GEARTECH® COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- **15° offset ratchet head** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Specially designed open end gets better nut friction and minimizes slippery.



REVERSIBLE GEARTECH® COMBINATION WRENCH



RGT5V

Material | Chrome Vanadium Steel

Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish

Feature | 15° Offset Ratchet Head

12 Point Ratchet Ring

Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)
1/4	33	124
9/32	32	124
5/16	36	135
11/32	43	142
3/8	58	158
7/16	73	167
1/2	100	179
9/16	121	189
5/8	163	215
11/16	193	232
3/4	236	247
13/16	350	285
7/8	335	285
15/16	470	325
1"	465	325
1-1/16	635	359

Size (inch)	Wt. (g)	L (mm)
1-1/8	960	425
1-1/4	920	425
1-3/8	-	482
1-7/16	-	482
1-1/2	-	482

Size (mm)	Wt. (g)	L (mm)
6	33	124
7	32	124
8	36	135
9	43	142
10	56	158
11	69	167
12	77	173
13	101	179
14	119	189
15	135	199
16	164	215
17	195	232
18	201	238
19	241	247
20	345	285
21	345	285

Size (mm)	Wt. (g)	L (mm)
22	340	285
23	335	285
24	480	325
25	470	325
26	465	325
27	630	359
28	635	359
30	940	425
32	900	425
34	-	482
36	1570	482
38	-	482



5° space requirement for each turn.



Reversible switch enables wrench to move from either direction.



15° offset ratchet head for knuckle clearance.

REVERSIBLE GEARTECH® SPLINE BOX END WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- **15° offset ratchet head** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Spline ratchet ring** works on all fastener types.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Reversible switch enables wrench to move from either direction.



15° offset ratchet head for knuckle clearance.



REVERSIBLE GEARTECH® SPLINE BOX END WRENCH



RGTS5PV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Spline Ratchet Ring
Regular / Non-slip Open End

Size (inch/star)	Wt. (g)	L (mm)	Size (mm/star)	Wt. (g)	L (mm)
5/16 E10	36	135	8 E10	36	135
3/8 E12	58	158	9 -	43	142
7/16 E14	73	167	10 E12	56	158
1/2 E16	100	179	11 E14	69	167
9/16 E18	121	189	12 -	77	173
5/8 E20	163	215	13 E16	101	179
11/16 E22	193	232	14 E18	119	189
3/4 E24	236	247	15 -	135	199
7/8 E28	335	285	16 E20	164	215
			17 E22	195	232
			18 -	201	238
			19 E24	241	247
			21 -	345	285
			22 E28	340	285

COMPARATIVE TABLE AVAILABLE SIZES OF DIFFERENT FASTENERS

- Spline ratchet ring works on all fastener types.



Size (mm/inch)	Size (mm/inch)	Size (mm)	Size (star)
8 5/16	7 9/32	8 E10	
9 11/32	8 5/16	9 -	
10 3/8	- 11/32	10 E12	
11 7/16	9 3/8	11 E14	
12 15/32	10 13/32	12 -	
13 1/2	11 7/16	13 E16	
14 9/16	12 15/32	14 E18	
15 19/32	- 1/2	15 -	
16 5/8	13 17/32	16 E20	
17 11/16	14 9/16	17 E22	
18 -	15 19/32	18 -	
19 3/4	16 5/8	19 E24	
21 13/16	18 11/16	21 -	
22 7/8	19 3/4	22 E28	

REVERSIBLE GEARTECH® SPEEDY OPEN END WRENCH

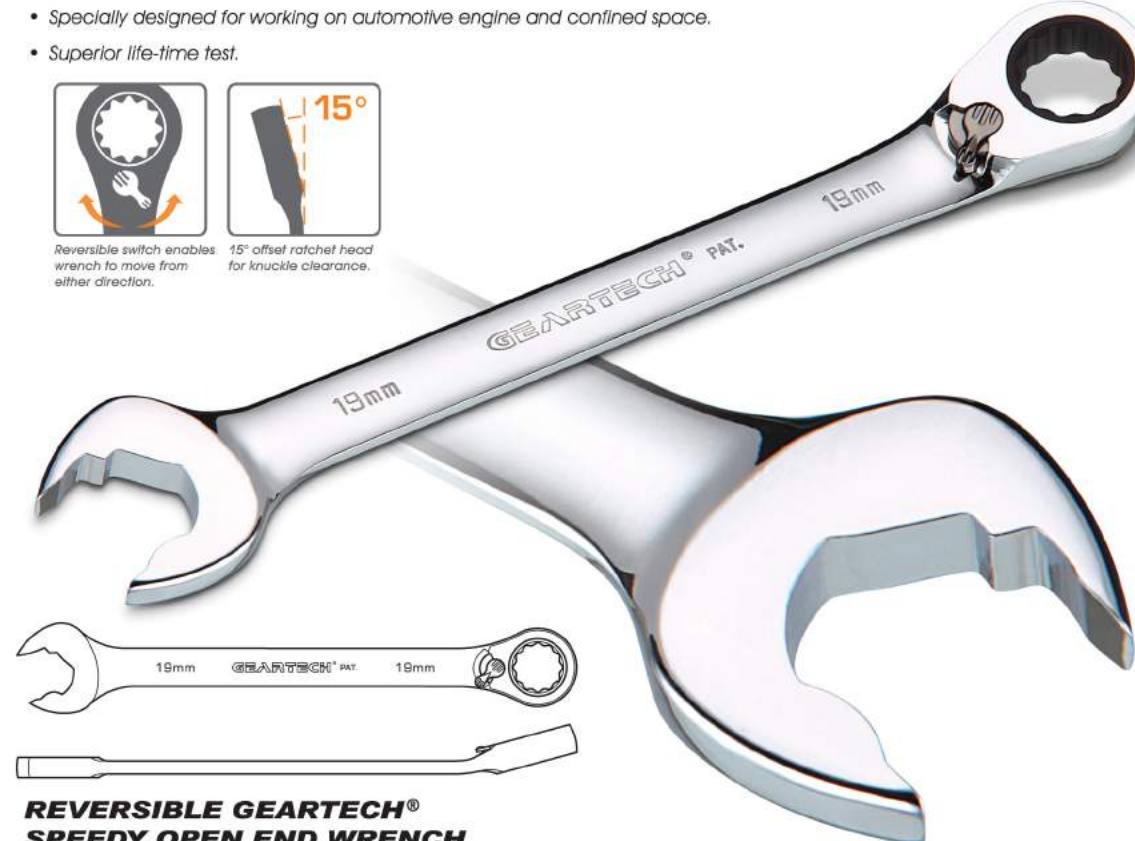
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- **15° offset ratchet head** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Speedy open end & ratchet head** allows wrench to travel without removing from fastener.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Reversible switch enables wrench to move from either direction.



15° offset ratchet head for knuckle clearance.



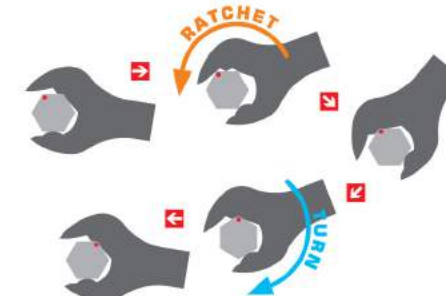
REVERSIBLE GEARTECH® SPEEDY OPEN END WRENCH



RGTSQ2V

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 15° Offset Ratchet Head
12 Point / Spline Ratchet Ring
Speedy Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	33	135	8	33	135
3/8	56	159	9	44	142
7/16	70	167	10	56	158
1/2	97	179	11	70	167
9/16	118	189	12	84	173
5/8	163	215	13	97	179
11/16	198	232	14	118	189
3/4	239	247	15	139	199
			16	163	215
			17	198	232
			18	204	238
			19	239	247



Speedy open end allows wrench to travel without removing from fastener.

REVERSIBLE GEARTECH® STUBBY COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- **15° offset ratchet head** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



REVERSIBLE GEARTECH® STUBBY COMBINATION WRENCH

MEETS SPECIFICATIONS
A.N.S.I. 12 POINT
STANDARDS RGT2SSNV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 15° Offset Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Stubby Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	30	90	6	30	90
5/16	29	90	7	30	90
3/8	42	95	8	28	90
7/16	49	102	9	43	95
1/2	69	107	10	40	95
9/16	87	114	11	49	102
5/8	112	122	12	59	105
11/16	132	126	13	69	107
3/4	165	138	14	87	114
			15	98	118
			16	111	122
			17	133	126
			18	145	130
			19	165	138

6x Reversible Geartech® Stubby Combination Wrench Set
PS Tray + Card + POF
6x MM 8, 10, 12, 13, 14, 15mm



10x Reversible Geartech® Stubby Combination Wrench Set
PVC Double Blister + Label
10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

REVERSIBLE GEARTECH® DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- **15° offset ratchet head** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



REVERSIBLE GEARTECH® DOUBLE BOX WRENCH

MEETS SPECIFICATIONS
A.N.S.I. 12 POINT
STANDARDS RGT2BXV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 15° Offset Ratchet Head
12 Point Ratchet Ring

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	51	127	8x9	51	127
3/8x7/16	68	148	8x10	48	127
7/16x1/2	102	168	10x11	69	148
9/16x5/8	150	188	10x13	104	168
11/16x3/4	232	227	11x13	102	168
			12x13	103	168
			14x15	151	188
			14x16	145	188
			16x18	234	227
			17x19	233	227



4-IN-1 REVERSIBLE GEARTECH® DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- Each wrench fits **4 sizes**.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



5° space requirement for each turn.



4-IN-1 REVERSIBLE GEARTECH® DOUBLE BOX WRENCH



4IN1DV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Each Long Ratchet Ring Fits 2 Sizes

L/Size (inch)	R/Size (inch)	Wt. (g)	L (mm)	L/Size (mm)	R/Size (mm)	Wt. (g)	L (mm)
7/16x1/2	5/16x3/8	100	160	11x13	8x10	97	160
11/16x3/4	9/16x5/8	268	230	12x13	8x10	97	160
				12x15	8x9	125	180
				14x15	9x11	125	180
				17x19	10x13	212	210
				17x19	10x13	285	230
				17x19	14x16	263	230
				18x19	16x17	264	230



Reversible switch enables wrench to move from either direction.

12-IN-1 REVERSIBLE GEARTECH® DOUBLE BOX WRENCH

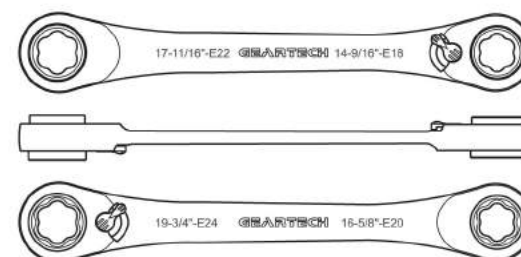
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- Each wrench fits **12 sizes**.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



5° space requirement for each turn.



Reversible switch enables wrench to move from either direction.



12-IN-1 REVERSIBLE GEARTECH® DOUBLE BOX WRENCH



12IN1DV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Each Long Ratchet Ring Fits 6 Sizes (Metric x2, SAE x2, Star x2)

Size (mm)	Left Size (inch)	Star Size (star)	Size (mm)	Right Size (inch)	Star Size (star)	Wt. (g)	L (mm)
11x13	7/16x1/2	E14xE16	8x10	5/16x3/8	E10xE12	100	160
17x19	11/16x3/4	E22xE24	10x13	3/8x1/2	E12xE16	285	230
17x19	11/16x3/4	E22xE24	14x16	9/16x5/8	E18xE20	269	230

COMPARATIVE TABLE AVAILABLE SIZES OF DIFFERENT FASTENERS

- 2 pieces wrenches work on 24 Different Fasteners.



Size (mm)	Size (inch)	Size (star)
8	5/16	E10
10	3/8	E12
11	7/16	E14
13	1/2	E16
14	9/16	E18
16	5/8	E20
17	11/16	E22
19	3/4	E24

28-IN-1 REVERSIBLE GEARTECH® DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- Each wrench fits **more than 28 sizes**.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Reversible switch enables wrench to move from either direction.



28-IN-1 REVERSIBLE GEARTECH® DOUBLE BOX WRENCH



28IN1DV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Offset Ratchet Head
Each Long Ratchet Ring Fits More than 14 Sizes

Left			Right			Wt. (g)	L (mm)
Size (mm)	Size (inch)	Size (star)	Size (mm)	Size (inch)	Size (star)		
11x13	7/16x1/2	E14xE16	8x10	5/16x3/8	E10xE12	97	160
12x13			8x10			97	160
17x19	11/16x3/4	E22xE24	14x16	9/16x5/8	E18xE20	252	230

COMPARATIVE TABLE AVAILABLE SIZES OF DIFFERENT FASTENERS

- 2 pieces wrenches work on 63 Different Fasteners.



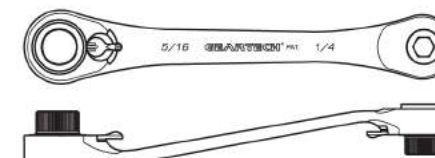
Size (mm/inch)	Size (mm/inch)	Size (mm)	Size (star)
8 5/16	7 9/32	8	E10
10 3/8	11/32	10	E12
11 7/16	3/8	11	E14
12 15/32	10 13/2	12	-
13 1/2	11 7/16	13	E16
14 9/16	12 15/32	14	E18
16 5/8	13 17/32	16	E20
17 11/16	14 9/16	17	E22
19 3/4	16 5/8	19	E24

REVERSIBLE GEARTECH® BIT DRIVER WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



Reversible switch enables wrench to move from either direction.



REVERSIBLE GEARTECH® OFFSET DOUBLE BIT DRIVER WRENCH



BDVV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 15° Offset Ratchet Bit Driver

Size (inch)	Wt. (g)	L (mm)
1/4x5/16	64	128



15° offset ratchet head for knuckle clearance.

REVERSIBLE GEARTECH® DOUBLE BIT DRIVER WRENCH



BDV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Flat Offset Ratchet Bit Driver

Size (inch)	Wt. (g)	L (mm)
1/4x5/16	64	128



REVERSIBLE GEARTECH® BIT DRIVER WRENCH



BD2V

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Flat Offset Ratchet Bit Driver

Size (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	36	90



INFAR®

REVERSIBLE GEARTECH® WRENCH ASSORTMENT



7x Reversible Geartech® Combination Wrench Set

Blow Mould Case + Label

7x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM 8, 10, 12, 13, 14, 15, 18mm

Reversible Geartech® Combination Wrench Set

Blow Mould Case + Color Sleeve

8x MM 8, 10, 12, 13, 15, 17, 18, 19mm

12x MM 12x Reversible Geartech® Combination Wrenches:

8, 10, 12, 13, 15, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

12x MM 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

16x MM 12x Geartech® Combination Wrenches:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

Geartech® Combination Wrench Set

EVA Tray + Cardboard + POF

EVA Tray + POF + Metal Case + Color Sleeve + POF

12x MM 5x Geartech® Combination Wrenches:

8, 10, 13, 17, 19mm

2x Quick Release Adapters:

1/4" Dr x10mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

12x MM 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

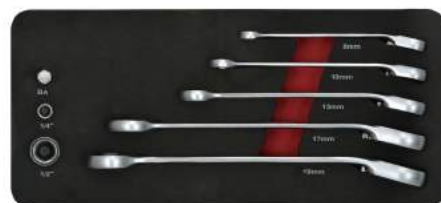
16x MM 12x Geartech® Combination Wrenches:

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3x Quick Release Adapters:

1/4" Dr x10mm, 3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter



GEARTECH®

REVERSIBLE GEARTECH® WRENCH ASSORTMENT

8x Reversible Geartech® Combination Wrench Set

New PP Rack + Label

8x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM 8, 10, 11, 12, 13, 14, 17, 19mm



15x 12-in-1 Reversible Geartech® Double Box Wrench Set

PVC Double Blister + Card

Content 2x 12-in-1 Reversible Geartech® Double Box Wrenches:

● 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

● 8, 10, 11, 13, 14, 16, 17, 19mm

★ E10, E12, E14, E16, E18, E20, E22, E24

2x Adapters: 1/4" Dr x10mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

10x 1/4" Hex 1"(L) Bits

17x Metric Go Through Socket Set

PVC Tray + Metal Case + Color Box

17x MM 1x 10x13-17x19mm 4-in-1 Reversible Geartech® Double Box Wrench

8x Metric Go Through Sockets:

8, 9, 11, 12, 14, 15, 16, 18mm

2x Go Through Extension Bars:

50mm, 100mm

3x Adapters: 1/4" Dr x10mm,

3/8" Dr x13mm, 1/2" Dr x19mm

1x 1/4" Hex x10mm Bit Adapter

2x 1/4" Hex 1"(L) Bits: PH2, T20



INFAR®

GEARTECH®

REVERSIBLE GEARTECH® WRENCH ASSORTMENT

Reversible Geartech® Combination Wrench Set

PP Rack (PAT.P) + Label

13x SAE (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8", 15/16", 1"

12x MM (XL) 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

11x SAE (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8"

11x MM (XL) 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm

10x MM (XL) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

9x SAE (L) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

9x MM (L) 10, 11, 12, 13, 14, 15, 16, 17, 19mm

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm

7x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm

6x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (M) 8, 10, 12, 13, 14, 17mm

5x SAE (M) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (M) 10, 12, 13, 14, 15mm

5x MM (S) 8, 10, 13, 17, 19mm

4x SAE (S) 3/8", 7/16", 1/2", 9/16"

4x MM (S) 10, 12, 13, 14mm



Reversible Geartech® Combination Wrench Set

PP Try Me Rack (PAT.P) + Label

7x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (M) 8, 10, 12, 13, 14, 17, 19mm

6x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (M) 8, 10, 12, 13, 14, 17mm

5x SAE (M) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (M) 10, 12, 13, 14, 15mm



Reversible Geartech® Double Box Wrench Set

PP Rack (PAT.P) + Label

6x MM (M) 8x9, 10x11, 12x13, 14x15, 16x18, 17x19mm

5x MM (S) 8x10, 10x11, 12x13, 14x15, 17x19mm

4x SAE (S) 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"

4x MM (S) 8x10, 12x13, 14x15, 17x19mm



Reversible Geartech® Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm (L)

7x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (L) 10, 12, 13, 14, 15, 17, 19mm

5x SAE (S) 5/16", 3/8", 7/16", 1/2", 9/16"

5x MM (S) 10, 12, 13, 14, 15mm

5x MM (L) 8, 10, 13, 17, 19mm

4x SAE (S) 3/8", 7/16", 1/2", 9/16"

4x MM (S) 10, 12, 13, 14mm



Reversible Geartech® Double Box Wrench Set

PP Small Try Me Tray + Cardboard + Label

5x MM (L) 8x10, 10x11, 12x13, 14x15, 17x19mm

4x SAE (L) 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"

4x MM (L) 8x10, 12x13, 14x15, 17x19mm



Reversible Geartech®

Stubby Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (S) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (S) 8, 10, 12, 13, 14, 15, 17, 19mm

7x SAE (S) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (S) 10, 12, 13, 14, 15, 17, 19mm

5x MM (S) 8, 10, 13, 17, 19mm



PROGEAR® SHORT COMBINATION WRENCH



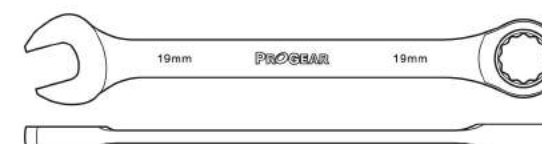
8x MM 8, 10, 12, 13, 16, 17, 18, 19mm

★ E10, E12, E14, E16, E18, E20, E22, E24

7, 9, 11, 12, 13, 14, 16mm



5" space requirement
for each turn.

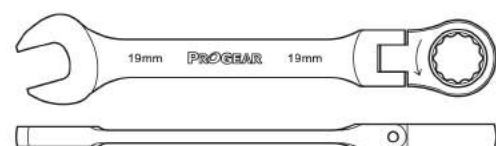


Material Medium Carbon Steel / Chrome Vanadium Steel
Surface Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature Flat Offset Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Short Length Panel

Geartech® Wrench | 63

FLEX HEAD PROGEAR® SHORT COMBINATION WRENCH

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



FLEX HEAD PROGEAR® SHORT COMBINATION WRENCH



Material | Medium Carbon Steel / Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Short Length Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	39	136	8	39	136
3/8	62	140	10	62	140
7/16	72	142	11	72	142
1/2	104	156	12	83	143
9/16	119	164	13	103	156
5/8	161	176	14	121	164
11/16	189	195	15	142	174
3/4	244	214	16	161	176
			17	182	195
			18	219	213
			19	247	214



Flexible head tilts 180° at any interval with continuous head tension.



Ratchet head allows wrench to travel without removing from fastener.



5° space requirement for each turn.

LENGTH WISE | FLEX HEAD RATCHET COMBINATION WRENCH

- Choose appropriate length when using in different space.



FLEX HEAD GEARTECH® COMBINATION WRENCH (P.37)



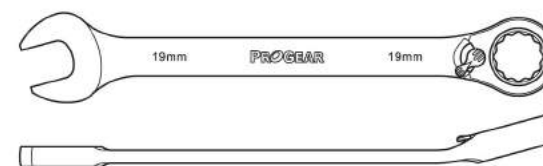
FLEX HEAD PROGEAR® SHORT COMBINATION WRENCH (P.64)



Size (mm)	Size (inch)	L (mm)	L (mm)	L (mm)
6	1/4	136		88 (-35.3%)
7		136		88 (-35.3%)
8	5/16	136	136 (0%)	88 (-35.3%)
9		143		96 (-32.9%)
10	3/8	160	140 (-12.5%)	96 (-40.0%)
11	7/16	168	142 (-15.5%)	100 (-40.5%)
12		174	143 (-17.8%)	104 (-40.2%)
13	1/2	180	156 (-13.3%)	108 (-40.0%)
14	9/16	193	164 (-15.0%)	114 (-40.9%)
15		200	174 (-13.0%)	118 (-41.0%)
16	5/8	216	176 (-18.5%)	122 (-43.5%)
17	11/16	233	195 (-16.3%)	128 (-44.1%)
18		239	213 (-10.9%)	132 (-44.8%)
19	3/4	250	214 (-14.4%)	138 (-44.8%)
20	13/16	285		
21	7/8	285		
22		285		
23		285		
24	15/16	325		
25	1"	325		
26		325		
27	1-1/16	359		
28		359		
30	1-1/8	425		
32	1-1/4	425		

REVERSIBLE PROGEAR® SHORT COMBINATION WRENCH

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **72 teeth** needs as little as 5° to move fasteners while a regular wrench needs 30° of sweep space.
- **Reversible switch** enables ratchet to move from either direction.
- **15° offset ratchet head** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



REVERSIBLE PROGEAR® SHORT COMBINATION WRENCH



Material | Medium Carbon Steel / Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 15° Offset Ratchet Head
12 Point Ratchet Ring
Regular / Non-slip Open End
Short Length Panel

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	31	120	8	31	120
3/8	51	142	10	50	142
7/16	73	150	11	-	150
1/2	92	167	12	-	162
9/16	115	180	13	92	167
5/8	146	200	14	117	180
11/16	172	210	15	148	196
3/4	228	240	16	146	200
			17	176	210
			18	206	237
			19	228	240



5° space requirement for each turn.



Reversible switch enables wrench to move from either direction.



15° offset ratchet head for knuckle clearance.

LENGTH WISE | FLEX HEAD RATCHET COMBINATION WRENCH

- Choose appropriate length when using in different space.



REVERSIBLE GEARTECH® COMBINATION WRENCH (P.49)

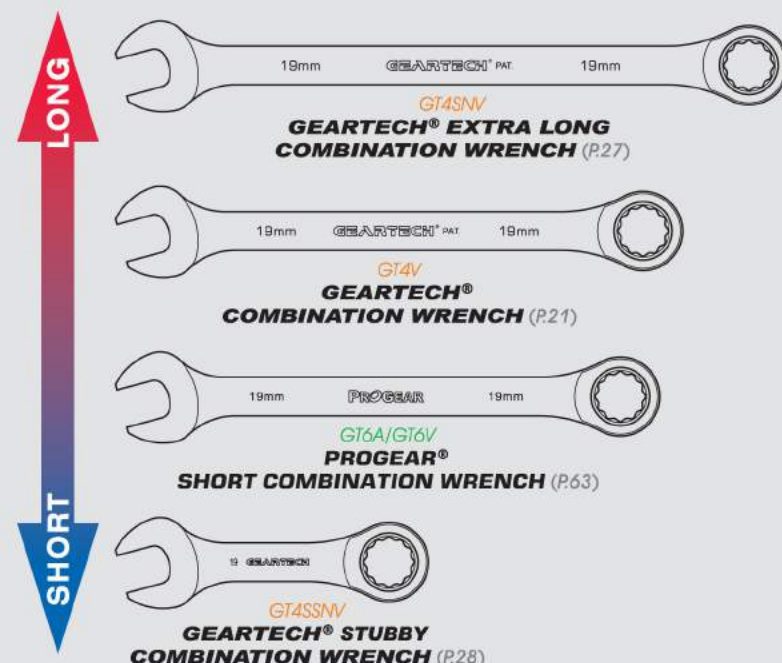


REVERSIBLE PROGEAR® SHORT COMBINATION WRENCH (P.65)



Size (mm)	Size (inch)	L (mm)	L (mm)	L (mm)
6	1/4	124		90 (-27.4%)
7	9/32	124		90 (-27.4%)
8	5/16	135	120 (-11.1%)	90 (-33.3%)
9	11/32	142		95 (-33.1%)
10	3/8	158	142 (-10.1%)	95 (-39.9%)
11	7/16	167	150 (-9.0%)	102 (-38.9%)
12		173	162 (-6.4%)	105 (-39.3%)
13	1/2	179	167 (-6.7%)	107 (-40.2%)
14	9/16	189	180 (-4.8%)	114 (-39.7%)
15		199	196 (-1.5%)	118 (-40.7%)
16	5/8	215	200 (-7.0%)	122 (-43.3%)
17	11/16	232	210 (-9.5%)	126 (-45.7%)
18		238	237 (-0.4%)	130 (-45.4%)
19	3/4	247	240 (-2.8%)	138 (-44.1%)
20	13/16	285		
21	7/8	285		
22		285		
23		285		
24	15/16	325		
25	1"	325		
26		325		
27	1-1/16	359		
28		359		
30	1-1/8	425		
32	1-1/4	425		

• Choose appropriate length when using in different space.



	GT4SNV	GT4V	GT6A(V)	GT4SSNV		GT4SNV	GT4V	GT6A(V)	GT4SSNV
Size (inch)	L (mm)	L (mm)	L (mm)	L (mm)	Size (inch)	L (mm)	L (mm)	L (mm)	L (mm)
1/4		136	107 (-21.3%)		6		136	107 (-21.3%)	
5/16	150 (+10.3%)	136	107 (-21.3%)	88 (-35.3%)	7		136	107 (-21.3%)	
3/8	180 (+12.5%)	160	140 (-12.5%)	96 (-40.0%)	8	150 (+10.3%)	136	107 (-21.3%)	88 (-35.3%)
7/16	195 (+16.1%)	168	148 (-11.9%)	100 (-40.5%)	9	165 (+15.4%)	143	117 (-21.3%)	96 (-32.9%)
1/2	220 (+22.2%)	180	165 (-8.3%)	108 (-40.0%)	10	180 (+12.5%)	160	140 (-12.5%)	96 (-40.0%)
9/16	235 (+21.6%)	193	178 (-7.8%)	114 (-40.9%)	11	195 (+16.1%)	168	148 (-11.9%)	100 (-40.5%)
5/8	260 (+20.4%)	216	195 (-9.7%)	122 (-43.5%)	12	207 (+19.0%)	174	160 (-8.0%)	104 (-40.2%)
11/16	275 (+18.0%)	233	208 (-10.7%)	128 (-44.1%)	13	220 (+22.2%)	180	165 (-8.3%)	108 (-40.0%)
3/4	305 (+22.0%)	250	240 (-4.0%)	138 (-44.6%)	14	235 (+21.6%)	193	178 (-7.8%)	114 (-40.9%)
13/16	330 (+15.8%)	285			15	250 (+25.0%)	200	195 (-2.5%)	118 (-41.0%)
7/8	330 (+15.8%)	285			16	260 (+20.4%)	216	195 (-9.7%)	122 (-43.5%)
15/16	355 (+9.2%)	325			17	275 (+18.0%)	233	208 (-10.7%)	128 (-44.1%)
1"	355 (+9.2%)	325			18	290 (+21.3%)	239	235 (-1.7%)	132 (-44.8%)
1-1/16		359			19	305 (+22.0%)	250	240 (-4.0%)	138 (-44.6%)
1-1/8		425			20	330 (+15.8%)	285		
1-1/4		425			21	330 (+15.8%)	285		
1-3/8		482			22	330 (+15.8%)	285		
1-7/16		482			23	330 (+15.8%)	285		
1-1/2		482			24	355 (+9.2%)	325		
1-5/8		550			25	355 (+9.2%)	325		
1-13/16		640			26	355 (+9.2%)	325		
1-7/8		640			27		359		
2"		640			28		359		
					30		425		
					32		425		
					34		482		
					36		482		
					38		482		
					41		550		
					46		640		
					50		640		

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FLAT DRIVE RING
Maximum contact on flats



STANDARD RING
Contact at points

Dual flat drive technology on box end to maximize contact on fasteners.



WARNING:
Always wear ANSI approved safety goggles when working with wrenches and equipment. Do not use the wrenches as striking tools. Never work on live electrical circuits.

COLORFUL PLATING SURFACE COLOR ELECTRO- DEPOSITION FINISH



The color on the wrench may be scraped off after the wrench is used for a period of time, which is normal and inevitable. The wrench will still be protected with three layers of nickel to prevent from corrosion.



OPTIONAL FEATURE OF TRADITIONAL WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.

OPTIONAL BOX END



○ Spline Box End

○ 6PT Box End

○ 12PT Box End

OPTIONAL PANEL



Twist Panel



Flat Panel

OPTIONAL SURFACE

- Mirror Finish
- Matt Finish
- Micro Satin Finish
- Color Electro-deposition Finish

OPTIONAL OPEN END



○ Metric & Inch Open End

○ Speedy Open End

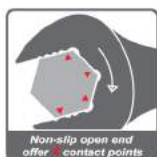
○ Non-slip Open End

○ Regular Open End



PR-TYPE COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



Specially designed open end gets better nut friction and minimizes slipperiness.



15° offset box end for knuckle clearance.



PR-TYPE COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition / Black Oxide Finish
Feature | Flat Panel
 15° Offset Box End
 12 Point / 6 Point Box
 Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)
1/4	21	124
9/32	-	129
5/16	27	136
3/8	41	149
7/16	57	168
1/2	79	180
9/16	101	193
5/8	136	207
11/16	166	227
3/4	230	250
25/32	-	260
13/16	280	271
7/8	340	295
15/16	420	317

Size (inch)	Wt. (g)	L (mm)
1"	485	339
1-1/16	635	362
1-1/8	705	394
1-3/16	740	394
1-1/4	880	429

PR-TYPE JUMBO COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition / Black Oxide Finish
Feature | Flat Panel
 15° Offset Box End

Size (inch)	Wt. (g)	L (mm)
1-5/16	1080	470
1-3/8	1080	470
1-7/16	1300	510
1-1/2	1300	510
1-9/16	1620	550
1-5/8	1620	550
1-11/16	1620	550
1-3/4	1810	612
1-13/16	1810	612
1-7/8	2500	650
2"	2500	650
2-1/16	4370	700
2-1/8	4370	700
2-3/16	4370	700
2-1/4	4370	700
2-5/16	4370	700
2-3/8	5640	760
2-7/16	5640	760
2-1/2	5640	760
2-9/16	5640	760

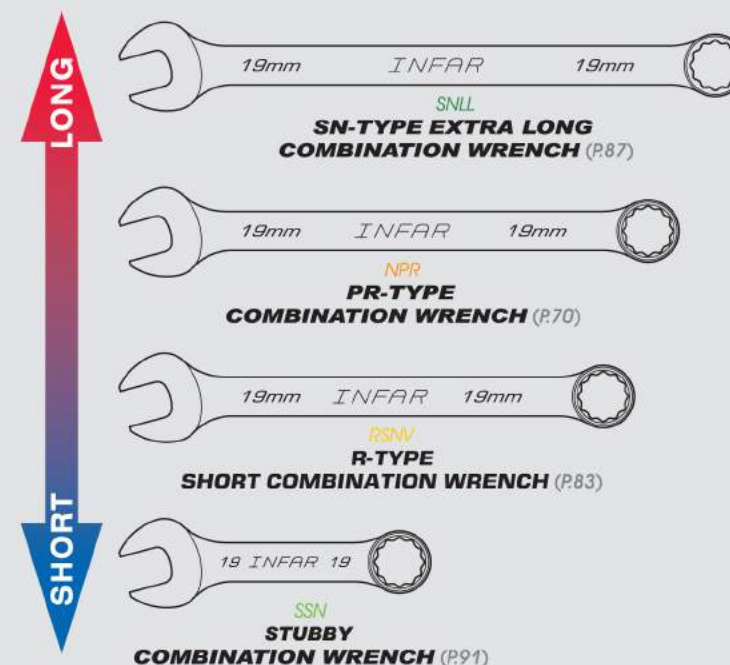
Size (mm)	Wt. (g)	L (mm)
33	1080	470
34	1080	470
36	1300	510
38	1300	510
40	1620	550
41	1620	550
42	1620	550
43	1620	550
45	1810	612
46	1810	612
48	2500	650
50	2500	650
55	4370	700
60	5640	760
65	5640	760

Size (mm)	Wt. (g)	L (mm)
5.5	-	124
6	21	124
7	21	129
8	28	136
9	43	149
10	54	161
11	58	168
12	71	174
13	79	180
14	104	193
15	124	200
16	135	207
17	169	227
18	207	239

Size (mm)	Wt. (g)	L (mm)
19	230	250
20	-	260
21	280	271
22	340	295
23	340	295
24	410	317
25	485	339
26	485	339
27	640	362
28	740	394
29	740	394
30	740	394
32	880	429

LENGTH WISE | FLAT PANEL COMBINATION WRENCH

- Choose appropriate length when using in different space.

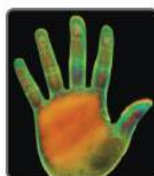


	SNLL	SNR	RSNV	SSN
Size (inch)	L (mm)	L (mm)	L (mm)	L (mm)
1/4	130 (+4.8%)	124	93 (-25.0%)	84 (-32.3%)
5/16	148 (+8.8%)	136	103 (-24.3%)	91 (-33.3%)
3/8	167 (+12.1%)	149	116 (-22.1%)	96 (-35.0%)
7/16	186 (+10.7%)	168	131 (-22.0%)	100 (-40.5%)
1/2	207 (+15.0%)	180	147 (-10.3%)	108 (-40.0%)
9/16	223 (+15.5%)	193	168 (-13.0%)	114 (-40.9%)
5/8	243 (+17.4%)	207	189 (-8.7%)	122 (-41.1%)
11/16	261 (+15.0%)	227	207 (-8.8%)	128 (-43.6%)
3/4	280 (+12.0%)	250	230 (-8.0%)	139 (-44.4%)
13/16	301 (+11.1%)	271	260 (-4.1%)	146 (-46.1%)
7/8	318 (+8.0%)	295	280 (-5.1%)	156 (-47.1%)
15/16	338 (+6.6%)	317	165 (-47.9%)	175 (-48.4%)
1"	355 (+4.7%)	339		
1-1/16	375 (+3.6%)	362		
1-1/8	414 (+5.1%)	394		
1-3/16	414 (+5.1%)	394		
1-1/4	435 (+1.4%)	429		

	SNLL	SNR	RSNV	SSN
Size (mm)	L (mm)	L (mm)	L (mm)	L (mm)
5.5		124		
6	130 (+4.8%)	124	93 (-25.0%)	84 (-32.3%)
7	136 (+5.4%)	129	98 (-24.0%)	
8	148 (+8.8%)	136	103 (-24.3%)	91 (-33.3%)
9	167 (+12.1%)	149	116 (-22.1%)	96 (-35.0%)
10	172 (+6.8%)	161	123 (-23.6%)	96 (-40.4%)
11	186 (+10.7%)	168	131 (-22.0%)	100 (-40.5%)
12	197 (+13.2%)	174	143 (-17.8%)	104 (-40.2%)
13	207 (+15.0%)	180	147 (-18.3%)	108 (-40.0%)
14	223 (+15.5%)	193	168 (-13.0%)	114 (-40.9%)
15	233 (+16.5%)	200	180 (-10.0%)	118 (-41.0%)
16	243 (+17.4%)	207	189 (-8.7%)	122 (-41.1%)
17	261 (+15.0%)	227	207 (-8.8%)	128 (-43.6%)
18	270 (+13.0%)	239	220 (-7.9%)	132 (-44.8%)
19	280 (+12.0%)	250	230 (-8.0%)	139 (-44.4%)
20	290 (+11.5%)	260	260 (-0.0%)	146 (-43.8%)
21	301 (+11.1%)	271	260 (-4.1%)	146 (-40.1%)
22	318 (+8.0%)	295	280 (-5.1%)	156 (-47.1%)
23	318 (+8.0%)	295	280 (-5.1%)	156 (-47.1%)
24	338 (+6.6%)	317		165 (-47.9%)
25	355 (+4.7%)	339		175 (-48.4%)
26	355 (+4.7%)	339		175 (-48.4%)
27	375 (+3.6%)	362		
28	375 (+3.6%)	362		
29	414 (+5.1%)	394		
30	414 (+5.1%)	394		
32	435 (+1.4%)	429		

PR-TYPE ERGONOMIC COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Whole piece wrench is forged along with patented **Ergonomic Handle** to reduce the user fatigue.
- Superior life-time test.



Heat spectrum diagram after using ergonomic wrench for two hours.



Heat spectrum diagram after using regular wrench for two hours.



PR-TYPE ERGONOMIC COMBINATION WRENCH

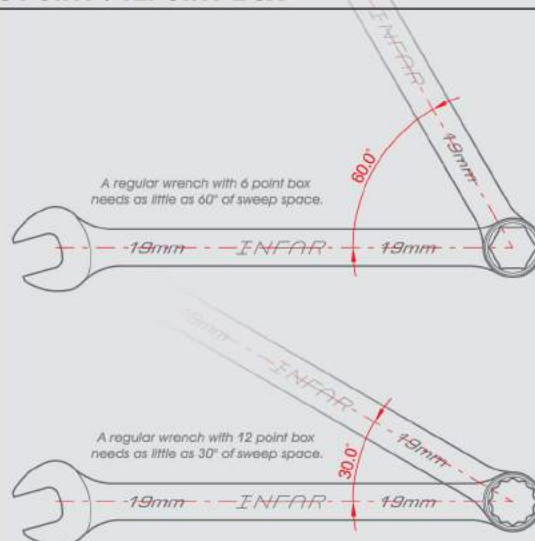
MEETS OR EXCEEDS
A.N.S.I. STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Colorful TPR Ergonomic Handle
15° Offset Box End
12 Point / 6 Point / Spline Box
Regular / Non-slip Open End

NPRTP

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	24	124	6	24	124
5/16	32	136	7	26	129
11/32	39	143	8	32	136
3/8	44	149	9	44	149
7/16	64	168	10	64	161
1/2	89	180	11	69	168
9/16	121	193	12	85	174
5/8	153	207	13	89	180
11/16	185	227	14	125	193
3/4	241	250	15	138	200
			16	149	207
			17	185	227
			18	214	239
			19	242	250

FUNCTION INTRODUCTION 6 POINT | 12POINT BOX



PR-TYPE SPLINE BOX END WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Spline box** works on all fastener types.
- Superior life-time test.



15° offset box end for knuckle clearance.



PR-TYPE SPLINE BOX END WRENCH

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition / Black Oxide Finish
Feature | Flat Panel
15° Offset Box End
Spline Box
Regular / Non-slip Open End

NPRSP

Size (inch/star)	Wt. (g)	L (mm)	Size (mm/star)	Wt. (g)	L (mm)
5/16 E10	27	136	8 E10	28	136
3/8 E12	41	149	9 -	43	149
7/16 E14	57	168	10 E12	54	161
1/2 E16	79	180	11 E14	58	168
9/16 E18	101	193	12 -	71	174
5/8 E20	136	207	13 E16	79	180
11/16 E22	166	227	14 E18	104	193
3/4 E24	230	250	15 -	124	200
13/16 -	280	271	16 E20	135	207
7/8 E28	340	295	17 E22	169	227
			18 -	207	239
			19 E24	230	250
			21 -	280	271
			22 E28	340	295

COMPARATIVE TABLE AVAILABLE SIZES OF DIFFERENT FASTENERS

- Spline box works on all fastener types.



Size (mm/inch)	Size (mm/inch)	Size (mm)	Size (star)
8 5/16	7 9/32	8 E10	
9 11/32	8 5/16	9 -	
10 3/8	- 11/32	10 E12	
11 7/16	9 3/8	11 E14	
12 15/32	10 13/32	12 -	
13 1/2	11 7/16	13 E16	
14 9/16	12 15/32	14 E18	
15 19/32	- 1/2	15 -	
16 5/8	13 17/32	16 E20	
17 11/16	14 9/16	17 E22	
18 -	15 19/32	18 -	
19 3/4	16 5/8	19 E24	
21 13/16	18 11/16	21 -	
22 7/8	19 3/4	22 E28	

PR-TYPE METRIC & INCH COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- One wrench fits **Metric & Inch** Sizes - double the value of the wrench.
- Superior life-time test.



15° offset box end for knuckle clearance.



PR-TYPE METRIC & INCH COMBINATION WRENCH



NPRSPSM

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
Splined Box
Metric & Inch Open End



INCH



METRIC

Each open end fits Metric & Inch Sizes.

Size (Inch/mm)	Wt. (g)	L (mm)
5/16 8	31	136
3/8 10	55	161
7/16 11	57	168
1/2 13	83	180
9/16 14	108	193
5/8 16	140	207
11/16 17	187	227
3/4 19	230	250
13/16 21	280	271
7/8 22	340	295

PR-TYPE SPEEDY OPEN END WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Speedy open end** allows wrench to travel without removing from fastener.
- Superior life-time test.



15° offset box end for knuckle clearance.



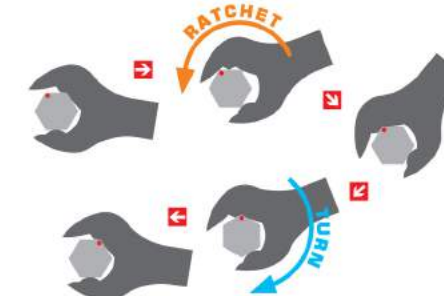
PR-TYPE SPEEDY OPEN END WRENCH



NPRQ2

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Splined Box
Speedy Open End

Size (Inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	31	136	8	29	136
3/8	42	149	9	41	149
7/16	57	168	10	55	161
1/2	82	180	11	56	168
9/16	108	193	12	78	174
5/8	140	207	13	83	180
11/16	180	227	14	108	193
3/4	230	250	15	120	200
			16	140	207
			17	187	227
			18	196	239
			19	230	250



Speedy open end allows wrench to travel without removing from fastener.

PR-TYPE TWIST COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.
- Superior life-time test.



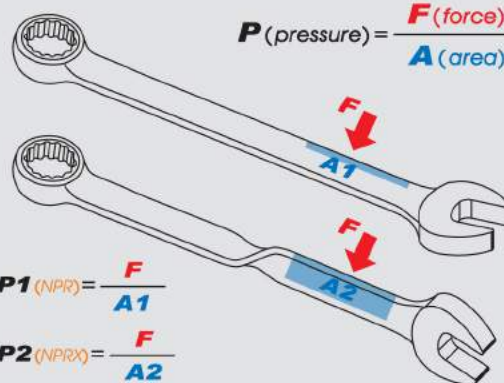
15° offset box end for knuckle clearance.



FUNCTION INTRODUCTION TWISTED PANEL

- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.

$$P(\text{pressure}) = \frac{F(\text{force})}{A(\text{area})}$$



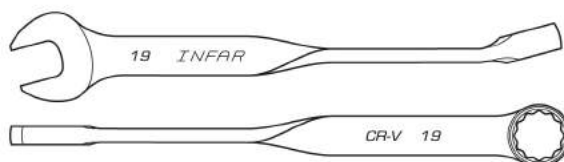
$$P1(\text{NPR}) = \frac{F}{A1}$$

$$P2(\text{NPR}) = \frac{F}{A2}$$

$$F = P1(\text{NPR}) \times A1 \quad F = P2(\text{NPR}) \times A2$$

$$P1(\text{NPR}) \times A1 = P2(\text{NPR}) \times A2$$

$$A1 < A2 \Rightarrow P1(\text{NPR}) < P2(\text{NPR})$$



PR-TYPE TWIST COMBINATION WRENCH



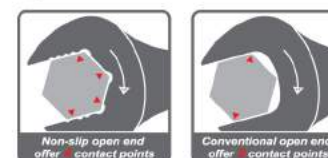
NPRX

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Twisted Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Regular / Non-slip Open End

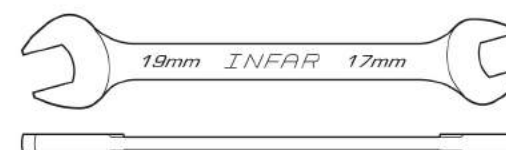
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	21	124	6	21	124	22	335	295
9/32	-	129	7	21	129	23	340	295
5/16	27	136	8	28	136	24	410	317
3/8	41	149	9	43	149	25	485	339
7/16	57	168	10	54	161	26	485	339
1/2	79	180	11	58	168			
9/16	101	193	12	71	174			
5/8	136	207	13	79	180			
11/16	166	227	14	104	193			
3/4	230	250	15	124	200			
25/32	-	260	16	135	207			
13/16	280	271	17	169	227			
7/8	340	295	18	207	239			
15/16	415	317	19	230	250			
1"	485	339	20	-	260			
			21	280	271			

PR-TYPE DOUBLE OPEN WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



Specially designed open end gets better nut friction and minimizes slippery.



PR-TYPE DOUBLE OPEN WRENCH

MEETS OR EXCEEDS
A.N.S.I.
STANDARDS

NPRO

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition / Black Oxide Finish
Feature | Flat Panel
Regular / Non-slip Open End

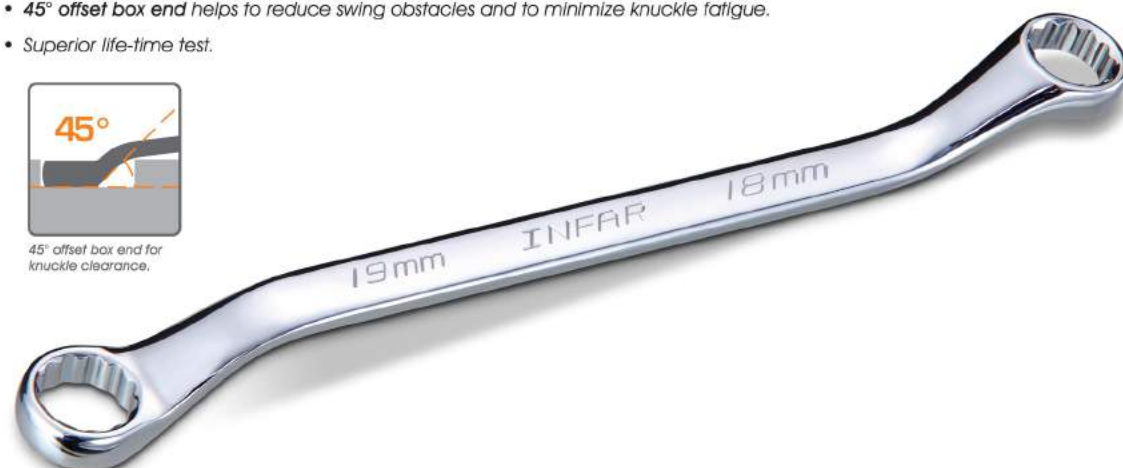
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	-	126	6x7	-	126	19x21	-	240
5/16x3/8	-	135	6x8	26	126	20x22	-	255
3/8x7/16	-	146	8x9	-	135	21x23	270	255
7/16x1/2	-	156	8x10	36	135	22x24	-	293
1/2x9/16	-	165	10x11	-	146	24x26	-	293
9/16x5/8	-	185	10x12	52	146	24x27	400	293
19/32x5/8	-	185	11x12	-	156	24x30	-	334
5/8x11/16	-	185	11x13	-	165	25x27	-	334
5/8x3/4	-	210	12x13	-	165	25x28	-	334
11/16x3/4	-	227	12x14	83	165	26x29	-	334
11/16x13/16	-	240	13x15	-	185	27x30	-	368
3/4x13/16	-	240	14x15	-	185	27x32	-	368
13/16x7/8	-	255	14x17	135	185	28x30	-	368
15/16x1"	-	293	15x17	-	185	29x30	-	368
1"x1-1/16	-	334	16x17	233	185	29x32	-	368
1"x1-1/8	-	334	16x18	-	210	30x32	630	368
1-1/16x1-1/8	-	334	17x19	-	227			
1-1/8x1-1/4	-	368	18x19	200	227			
1-3/16x1-1/4	-	368	17x21	-	240			
			18x21	-	240			

PR-TYPE 45° OFFSET DOUBLE BOX WRENCH

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- 45° offset box end helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



45° offset box end for knuckle clearance.



PR-TYPE 45° OFFSET DOUBLE BOX WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition / Black Oxide Finish
Feature | Flat Panel
45° Offset Box End
12 Point / Spline Box

PRBXV

PR-type 45° Offset Double Box Wrench Set

PS Tray + Card + POF

8x MM 8x10, 10x12, 11x13, 12x14, 14x17, 17x19, 19x21, 22x24mm
7x MM 6x7, 8x9, 10x12, 11x13, 12x14, 17x19, 19x21mm
6x MM 8x10, 10x12, 12x14, 14x17, 17x19, 22x24mm

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	50	165	6x7	50	165	19x21	290	292
3/8x7/16	61	182	6x8	47	165	19x22	290	292
7/16x1/2	71	195	8x9	47	170	20x22	285	292
1/2x9/16	98	206	8x10	47	170	21x23	380	346
9/16x5/8	127	232	9x11	62	182	22x24	395	346
19/32x5/8	127	232	10x11	61	182	23x26	435	362
5/8x11/16	163	237	10x12	71	195	24x26	435	362
3/4x25/32	235	270	11x13	108	206	24x27	-	410
3/4x13/16	290	292	12x13	108	206	24x30	-	410
3/4x7/8	285	292	12x14	108	206	25x28	-	410
13/16x7/8	285	292	13x14	130	232	26x29	-	410
13/16x15/16	395	346	13x15	127	232	26x30	-	410
15/16x1"	435	362	14x15	127	232	27x30	-	465
1"x1-1/8	-	410	14x17	153	237	27x32	-	465
1-1/16x1-1/8	-	410	15x16	163	237	29x30	-	465
1-1/16x1-1/4	-	465	15x17	163	237	30x32	-	465
1-1/8x1-1/4	-	465	16x17	158	237			
1-3/16x1-1/4	-	465	16x18	158	237			
			17x19	265	270			
			18x19	265	270			

PR-TYPE WRENCH ASSORTMENT



20x SAE / Metric PR-type Combination Wrench Set

Blow Mould Case + Label

Content 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8"
8, 9, 10, 11, 12, 13, 14, 15, 17, 18mm

PR-type Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
8x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm (L)
7x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"
7x MM (L) 10, 12, 13, 14, 15, 17, 19mm
5x SAE (S) 5/16", 3/8", 7/16", 1/2", 9/16"
5x MM (S) 10, 12, 13, 14, 15mm
5x MM (L) 8, 10, 13, 17, 19mm
4x SAE (S) 3/8", 7/16", 1/2", 9/16"
4x MM (S) 10, 12, 13, 14mm



PR-type Twist Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

7x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"
7x MM (L) 8, 10, 12, 13, 14, 17, 19mm



PR-TYPE WRENCH ASSORTMENT

PR-TYPE WRENCH ASSORTMENT

PR-type Combination Wrench Set

PP Rack (PATR) + Label

13x SAE (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8", 15/16", 1"

12x MM (XL) 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

11x SAE (XL) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8"

11x MM (XL) 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm

10x MM (XL) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

9x SAE (L) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

9x MM (L) 10, 11, 12, 13, 14, 15, 16, 17, 19mm

8x SAE (L) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (L) 8, 10, 12, 13, 14, 15, 17, 19mm

7x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (M) 8, 10, 12, 13, 14, 17, 19mm

6x SAE (M) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"

6x MM (M) 8, 10, 12, 13, 14, 17mm

5x SAE (M) 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM (M) 10, 12, 13, 14, 15mm

5x MM (S) 8, 10, 13, 17, 19mm

4x SAE (S) 3/8", 7/16", 1/2", 9/16"

4x MM (S) 10, 12, 13, 14mm



8x PR-type Double Open Wrench Set

PP Try Me Rack (PATR) + Label

8x MM (L) 6x7, 8x9, 10x11, 12x13, 14x15, 16x17,
18x19, 20x22mm



PR-type 45° Offset Double Box Wrench Set

PP Rack (PATR) + Label

6x SAE (M) 1/4"x5/16", 3/8"x7/16", 1/2"x9/16", 5/8"x11/16",
3/4"x7/8", 13/16"x15/16"

5x MM (S) 10x11, 12x13, 14x15, 16x18, 17x19mm



PR-type Combination Wrench Set

PP Holder + Label

11x SAE 1/4", 5/16", 3/8", 7/16", 1/2", 9/16",
5/8", 11/16", 3/4", 13/16", 7/8",

11x MM 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19mm

9x SAE 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8",
11/16", 3/4"

9x MM 8, 9, 10, 11, 12, 13, 14, 15, 16mm

8x MM 8, 9, 10, 11, 12, 13, 17, 19mm

7x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

7x MM 10, 12, 13, 14, 15, 17, 19mm

6x SAE 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"

6x MM 8, 10, 11, 12, 13, 14mm



PR-type Double Box Wrench Set

PP Holder + Label

8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

6x SAE 1/4"x5/16", 3/8"x7/16", 1/2"x9/16", 9/16"x5/8", 11/16"x3/4",
13/16"x7/8"

6x MM 6x8, 10x11, 12x13, 14x15, 17x19, 20x22mm



5x PR-type Ergonomic Combination Wrench Set

PP Holder + Label

5x SAE 3/8", 7/16", 1/2", 9/16", 5/8"

5x MM 10, 12, 13, 15, 17mm



PR-TYPE WRENCH ASSORTMENT

PR-type Combination Wrench Set

PP Cell Holder + Label

11x SAE 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",
13/16", 7/8",

11x MM 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19mm

6x SAE 1/4", 5/16", 3/8", 7/16", 1/2", 9/16"

6x MM 8, 10, 11, 12, 13, 14mm

5x SAE 5/16", 3/8", 7/16", 1/2", 9/16"

5x MM 10, 11, 12, 13, 14mm

5x PR-type Double Open Wrench Set

PP Cell Holder + Label

5x SAE 1/4"x5/16", 3/8"x7/16", 1/2"x9/16", 9/16"x5/8", 11/16"x3/4"

5x MM 6x7, 8x9, 10x11, 12x13, 14x15mm

5x PR-type 45° Offset Double Box Wrench Set

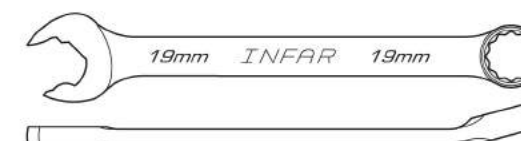
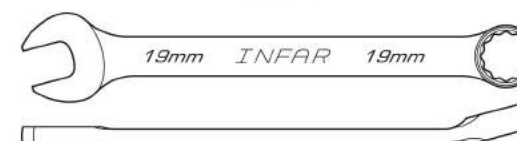
PP Cell Holder + Label

5x SAE 1/4"x5/16", 3/8"x7/16", 1/2"x9/16", 5/8"x11/16", 3/4"x7/8"

5x MM 8x9, 10x12, 13x14, 15x17, 19x22mm

R-TYPE SHORT COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



R-TYPE SHORT COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	15	93	6	15	93
5/16	22	103	7	17	98
3/8	26	116	8	21	103
7/16	41	131	9	26	116
1/2	64	147	10	36	123
9/16	87	168	11	40	131
5/8	107	189	12	52	143
11/16	127	207	13	60	147
3/4	193	230	14	87	168
13/16	245	260	15	108	180
7/8	310	280	16	107	189
			17	122	207
			18	136	220
			19	193	230
			20	245	260
			21	245	260
			22	310	280
			23	310	280

R-TYPE SHORT SPEEDY COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Speedy Open End

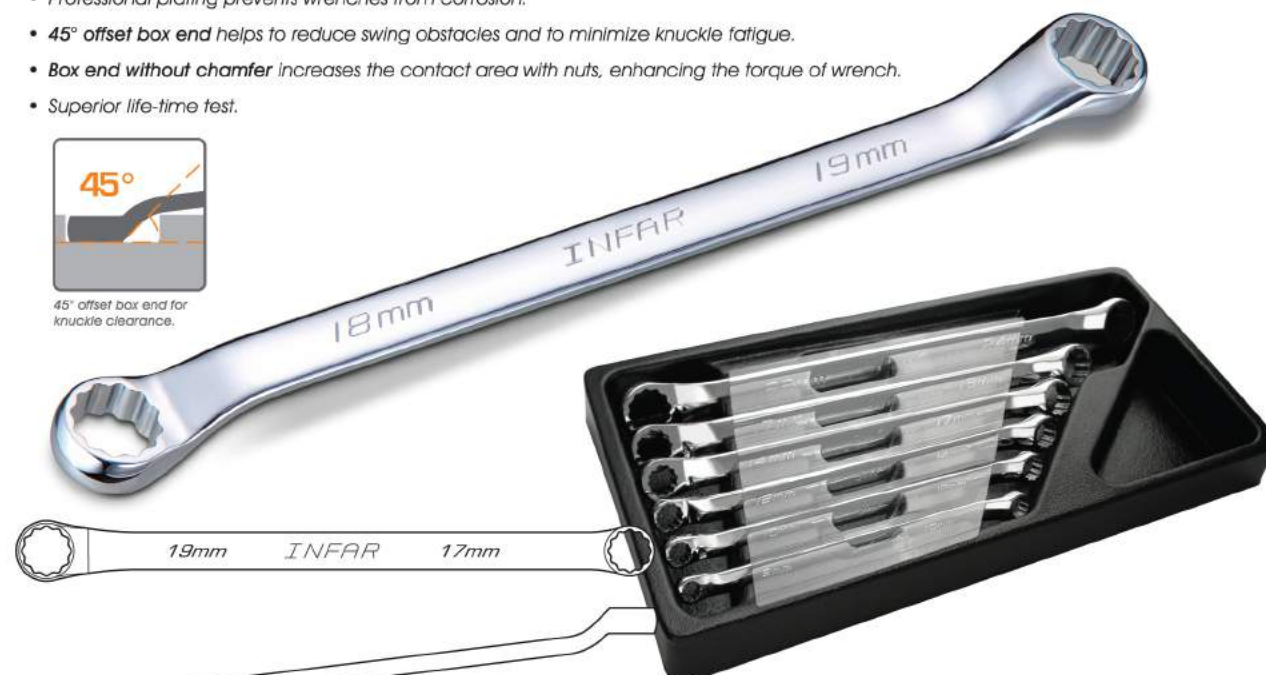
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	22	103	8	21	103
3/8	26	116	9	26	116
7/16	41	131	10	36	123
1/2	64	147	11	40	131
9/16	87	168	12	52	143
5/8	107	189	13	60	147
11/16	127	207	14	87	168
3/4	193	230	15	108	180
			16	107	189
			17	122	207
			18	136	220
			19	193	230

R-TYPE 45° OFFSET DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **45° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.
- Superior life-time test.



45° offset box end for knuckle clearance.



R-TYPE 45° OFFSET DOUBLE BOX WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
45° Offset Box End without Chamfer
12 Point / Spline Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	72	185	8x9	72	185
3/8x7/16	91	207	8x10	70	185
7/16x1/2	133	230	10x11	95	207
1/2x9/16	183	249	10x12	93	207
9/16x5/8	175	250	11x13	132	230
5/8x11/16	196	265	12x13	132	230
11/16x3/4	250	285	12x14	129	230
3/4x7/8	360	303	13x14	184	249
7/8x15/16	440	343	13x15	150	249
			14x15	153	249
			14x17	175	250
			15x17	201	265
			16x17	206	265
			16x18	199	265
			17x19	250	285
			18x19	250	285
			19x21	370	303
			19x22	370	303
			20x22	370	303
			21x22	370	303
			22x24	450	343

R-type 45° Offset Double Box Wrench Set

PS Tray + PVC Cap + Card + POF

10x MM	8x10, 10x12, 11x13, 12x14, 13x15, 14x17, 16x18, 17x19, 19x21, 22x24mm
9x SAE	5/16"x3/8", 3/8"x7/16", 7/16"x1/2", 1/2"x9/16", 9/16"x5/8", 5/8"x11/16", 11/16"x3/4", 3/4"x7/8", 7/8"x15/16"
9x MM	8x10, 10x12, 12x14, 13x15, 14x17, 16x18, 17x19, 19x21, 22x24mm
6x SAE	5/16"x3/8", 3/8"x7/16", 7/16"x1/2", 1/2"x9/16", 5/8"x11/16", 11/16"x3/4"
6x MM	8x10, 10x12, 12x14, 14x17, 17x19, 22x24mm

FUNCTION INTRODUCTION BOX END WITHOUT CHAMFER

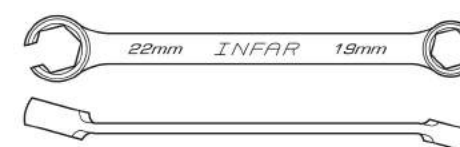
- **Box end without chamfer** increases the contact area with nuts, enhancing the torque of wrench.



Box end without chamfer fits all types of corrupted nuts.

R-TYPE FLARE NUT WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **6 point** double end flare nut wrench.
- Designed to work on a variety of fittings, such as fuel, brake, and air conditioning lines.
- **15° offset flare nut drive** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



R-TYPE FLARE NUT WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Flare Nut Drive
6 Point Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	53	135	7x9	46	145
5/16x3/8	47	145	8x9	46	145
3/8x7/16	64	155	8x10	47	145
1/2x9/16	87	175	9x10	46	145
5/8x11/16	130	200	9x11	45	145
5/8x3/4	165	210	10x11	66	155
3/4x7/8	184	225	10x12	65	155
			11x12	65	155
			11x13	88	175
			12x13	86	175
			12x14	84	175
			13x14	87	175
			13x15	82	175
			14x16	130	200
			14x17	131	200
			15x16	130	200

5x R-type Flare Nut Wrench Set

PP Rack (PAT.) + Label

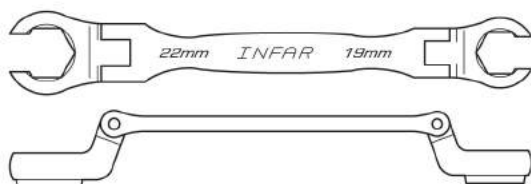
5x SAE	1/4"x5/16", 3/8"x7/16", 1/2"x9/16", 5/8"x11/16", 3/4"x7/8"
5x MM	9x11, 10x12, 13x14, 15x17, 16x18mm



15° offset flare nut drive for knuckle clearance.

R-TYPE FLEXIBLE FLARE NUT WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **6 point** double end flare nut wrench.
- Designed to work on a variety of fittings, such as fuel, brake, and air conditioning lines.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- Superior life-time test.



R-TYPE FLEXIBLE FLARE NUT WRENCH

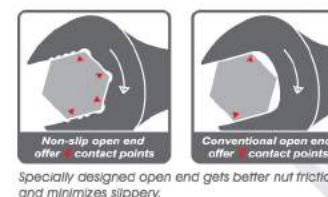
MEETS OR EXCEEDS A.N.S.I. STANDARD **6 POINT**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Flat Panel
180° Flexible Flare Nut Drive
6 Point Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
3/8x7/16	74	152	10x11	74	152
1/2x9/16	116	168	12x13	116	168
5/8x11/16	206	212	14x17	206	212
3/4x7/8	314	233	19x22	314	233

SN-TYPE EXTRA LONG COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Extra Long Panel** helps to reach deeper space.
- Superior life-time test.



SN-TYPE EXTRA LONG COMBINATION WRENCH

MEETS OR EXCEEDS A.N.S.I. STANDARD **EXCEPT FOR DELIBERATE NON-CHAMFER BOX END** **12 POINT** **6 POINT** **SPLINE**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	20	130	6	20	130
5/16	33	148	7	24	136
11/32	51	167	8	33	148
3/8	50	167	9	49	167
7/16	71	186	10	56	172
1/2	103	207	11	67	186
9/16	131	223	12	87	197
5/8	160	243	13	98	207
11/16	200	261	14	132	223
3/4	230	280	15	141	233
13/16	315	301	16	159	243
7/8	353	318	17	215	261
15/16	415	338	18	217	270
1"	505	355	19	235	280
1-1/16	591	375	20	288	290
1-1/8	739	414	21	312	301
1-3/16	739	414	22	347	318
1-1/4	873	435	23	349	318
			24	436	338
			25	515	355
			26	527	355
			27	576	375
			28	591	375
			29	727	414
			30	720	414
			32	869	435

FUNCTION INTRODUCTION BOX END WITHOUT CHAMFER

- Box end without chamfer increases the contact area with nuts, enhancing the torque of wrench.



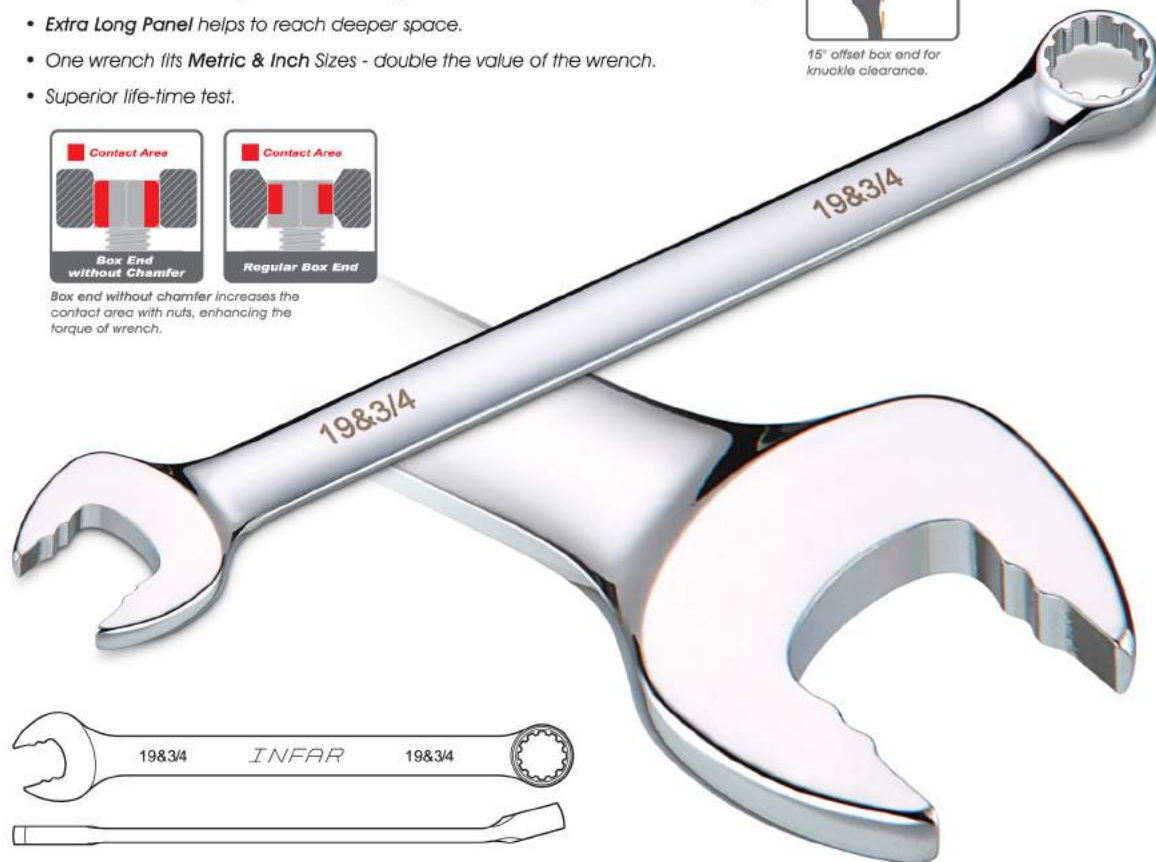
Box end without chamfer fits all types of corrupted nuts.

SN-TYPE EXTRA LONG METRIC & INCH COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Extra Long Panel** helps to reach deeper space.
- One wrench fits **Metric & Inch** Sizes - double the value of the wrench.
- Superior life-time test.



Box end without chamfer increases the contact area with nuts, enhancing the torque of wrench.



SN-TYPE EXTRA LONG METRIC & INCH COMBINATION WRENCH

SNSPSM



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
Spline Box
Metric & Inch Open End

Size (Inch/mm)	Wt. (g)	L (mm)
5/16 8	33	148
3/8 10	56	172
7/16 11	71	186
1/2 13	103	207
9/16 14	131	223
5/8 16	160	243
11/16 17	200	261
3/4 19	230	280
13/16 21	315	301
7/8 22	353	318



Each open end fits Metric & Inch Sizes.

COMPARATIVE TABLE

AVAILABLE SIZES OF DIFFERENT FASTENERS

- Spline box works on all fastener types.

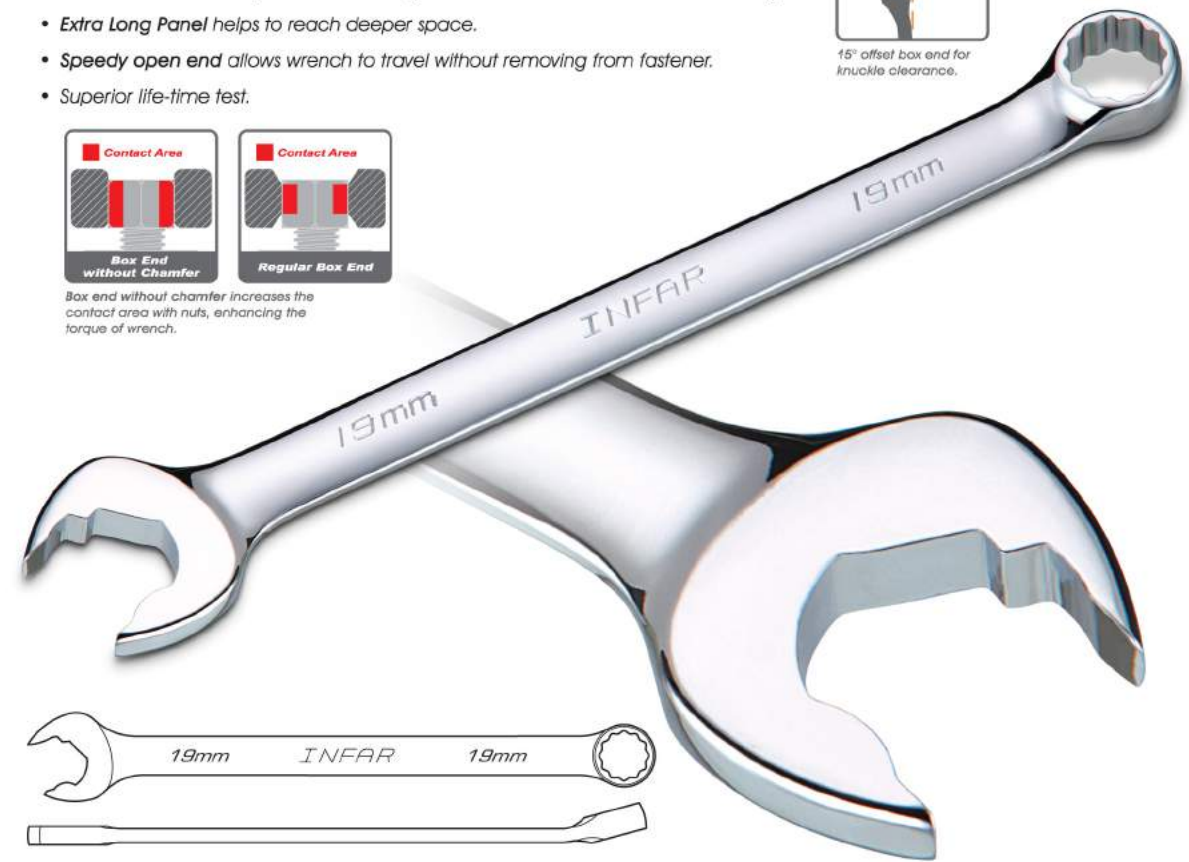
6 POINT	12 POINT	SPLINE	SQUARE	STAR
Size (mm/inch)	Size (mm/inch)	Size (mm)	Size (mm)	Size (star)
8 5/16	7 9/32	8	E10	-
9 11/32	8 5/16	9	-	-
10 3/8	11/32	10	E12	-
11 7/16	3/8	11	E14	-
12 15/32	10 13/32	12	-	-
13 1/2	7/16	13	E16	-
14 9/16	12 15/32	14	E18	-
15 19/32	1/2	15	-	-
16 5/8	13 17/32	16	E20	-
17 11/16	14 9/16	17	E22	-
18 -	15 19/32	18	-	-
19 3/4	16 5/8	19	E24	-
21 13/16	18 11/16	21	-	-
22 7/8	19 3/4	22	E28	-

SN-TYPE EXTRA LONG SPEEDY OPEN END WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Extra Long Panel** helps to reach deeper space.
- **Speedy open end** allows wrench to travel without removing from fastener.
- Superior life-time test.



Box end without chamfer increases the contact area with nuts, enhancing the torque of wrench.



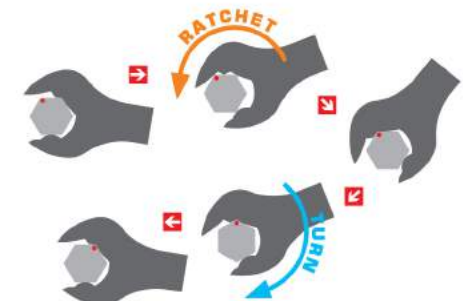
SN-TYPE EXTRA LONG SPEEDY OPEN END WRENCH

SNQ2



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Speedy Open End

Size (Inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16 33	148	8	33	148	
3/8 50	167	9	49	167	
7/16 71	186	10	56	172	
1/2 103	207	11	67	186	
9/16 131	223	12	87	197	
5/8 160	243	13	98	207	
11/16 200	261	14	132	223	
3/4 230	280	15	141	233	
		16	159	243	
		17	215	261	
		18	217	270	
		19	235	280	



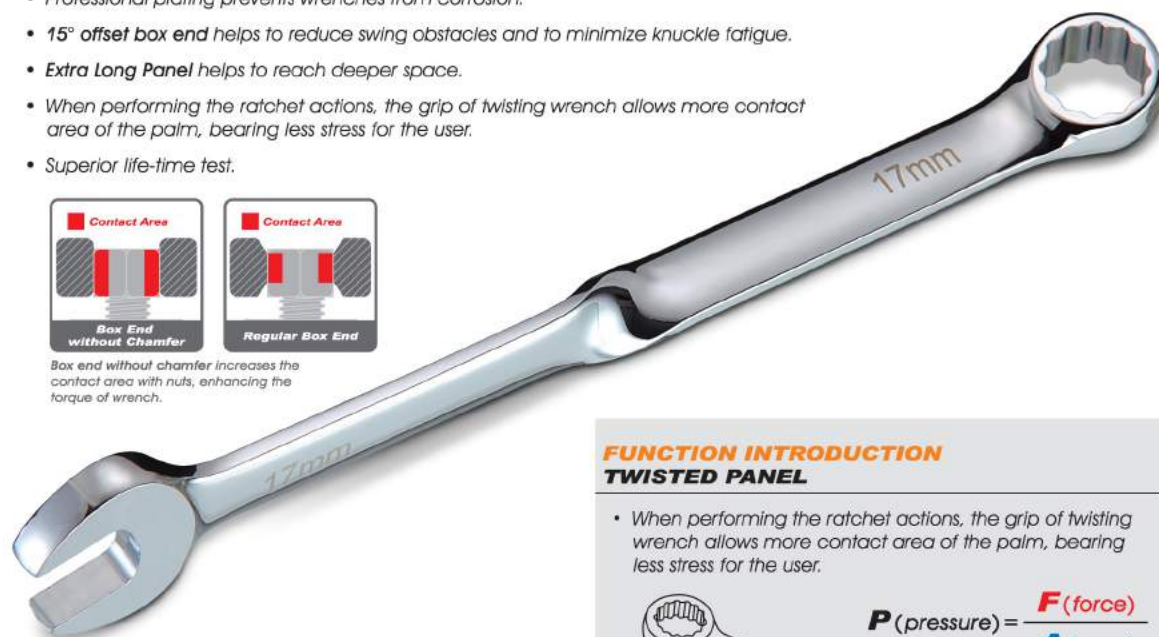
Speedy open end allows wrench to travel without removing from fastener.

SN-TYPE EXTRA LONG TWIST COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Extra Long Panel** helps to reach deeper space.
- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.
- Superior life-time test.



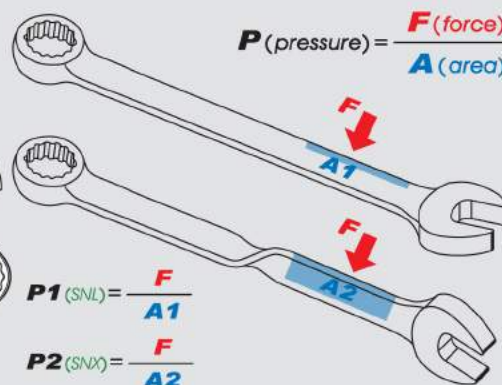
Box end without chamfer increases the contact area with nuts, enhancing the torque of wrench.



FUNCTION INTRODUCTION TWISTED PANEL

- When performing the ratchet actions, the grip of twisting wrench allows more contact area of the palm, bearing less stress for the user.

$$P(\text{pressure}) = \frac{F(\text{force})}{A(\text{area})}$$



$$P1(\text{SNL}) = \frac{F}{A1}$$

$$P2(\text{SNX}) = \frac{F}{A2}$$

$$F = P1(\text{SNL}) \times A1 \quad F = P2(\text{SNX}) \times A2$$

$$P1(\text{SNL}) \times A1 = P2(\text{SNX}) \times A2$$

$$A1 < A2 \Rightarrow P1(\text{SNL}) < P2(\text{SNX})$$

SN-TYPE EXTRA LONG TWIST COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Twisted Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	20	130	6	20	130	22	347	318
5/16	33	148	7	24	136	23	349	318
11/32	51	167	8	33	148	24	436	338
3/8	50	167	9	49	167	25	515	355
7/16	71	186	10	56	172	26	527	355
1/2	103	207	11	67	186			
9/16	131	223	12	87	197			
5/8	160	243	13	98	207			
11/16	200	261	14	132	223			
3/4	230	280	15	141	233			
13/16	315	301	16	159	243			
7/8	353	318	17	215	261			
15/16	415	338	18	217	270			
1"	505	355	19	235	280			
			20	288	290			
			21	312	301			



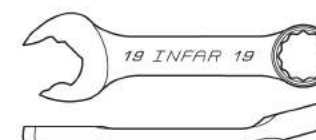
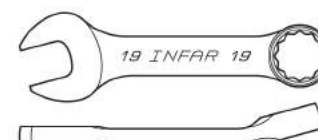
15° offset box end for knuckle clearance.

STUBBY COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



15° offset box end for knuckle clearance.



Speedy open end allows wrench to travel without removing from fastener.

STUBBY COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	16	84	6	16	84
5/16	20	91	8	20	91
3/8	32	96	9	32	96
7/16	40	100	10	32	96
1/2	52	108	11	36	100
9/16	61	114	12	45	104
5/8	85	122	13	52	108
11/16	95	128	14	66	114
3/4	124	139	15	74	118
13/16	147	146	16	85	122
7/8	173	156	17	98	128
15/16	-	165	18	115	132
1"	-	175	19	121	139
			20	146	146
			21	146	146
			22	168	156
			23	186	156
			24	-	165
			25	-	175
			26	-	175

STUBBY SPEEDY OPEN END WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Flat Panel
15° Offset Box End
12 Point / 6 Point / Spline Box
Speedy Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16	20	91	8	20	91
3/8	32	96	9	32	96
7/16	40	100	10	32	96
1/2	52	108	11	36	100
9/16	61	114	12	45	104
5/8	85	122	13	52	108
11/16	95	128	14	66	114
3/4	124	139	15	74	118
			16	85	122
			17	98	128
			18	115	132
			19	121	139

STUBBY WRENCH ASSORTMENT

Stubby Combination Wrench Set

PP Small Try Me Tray + Cardboard + Label

8x SAE (US) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM (US) 8, 10, 12, 13, 14, 15, 17, 19mm (L)

7x SAE (US) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

7x MM (US) 10, 12, 13, 14, 15, 17, 19mm

5x MM (US) 8, 10, 13, 17, 19mm



7x Stubby Combination Wrench Set

PP Holder + Label

7x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

7x MM 10, 12, 13, 14, 15, 17, 19mm



Stubby Combination Wrench Set

PVC Double Blister + Label

12x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

12x MM 6, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm



7x Stubby Combination Wrench Set

PP Cell Holder + Label

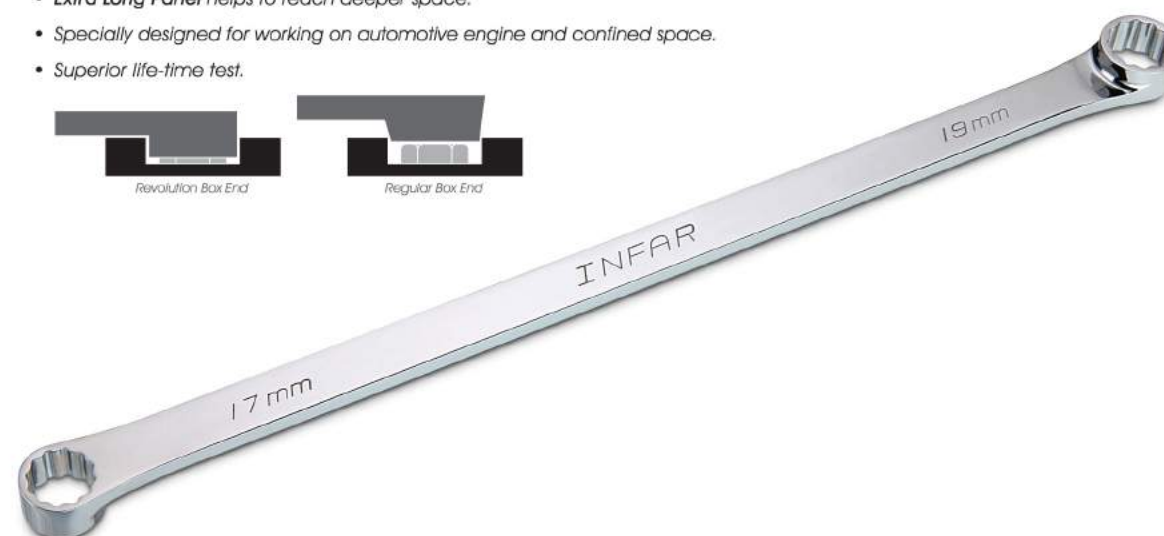
7x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

7x MM 10, 12, 13, 14, 15, 17, 19mm



L-TYPE EXTRA LONG DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **Extra Long Panel** helps to reach deeper space.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



L-TYPE EXTRA LONG DOUBLE BOX WRENCH

MEETS OR EXCEEDS
A.N.S.I.
STANDARDS

EXCEPT FOR
DELIBERATE
NON-CHAMFER
BOX END

12
POINT

LBXV
JAPAN EXCLUSIVE

Material | Chrome Vanadium Steel

Surface | Mirror / Micro Satin Finish

Feature | Super Flat Panel

Flat Offset Box End without Chamfer
12 Point Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	67	235	8x10	64	235
7/16x1/2	161	327	10x12	119	290
9/16x5/8	244	367	11x12	119	290
11/16x3/4	338	404	11x13	160	327
13/16x7/8	540	434	12x14	159	328
			13x14	158	328
			13x15	-	329
			14x17	242	367
			16x18	345	404
			17x19	345	404
			19x21	540	432
			19x22	540	432
			20x22	540	432
			21x23	-	434
			22x24	534	435

FUNCTION INTRODUCTION BOX END WITHOUT CHAMFER

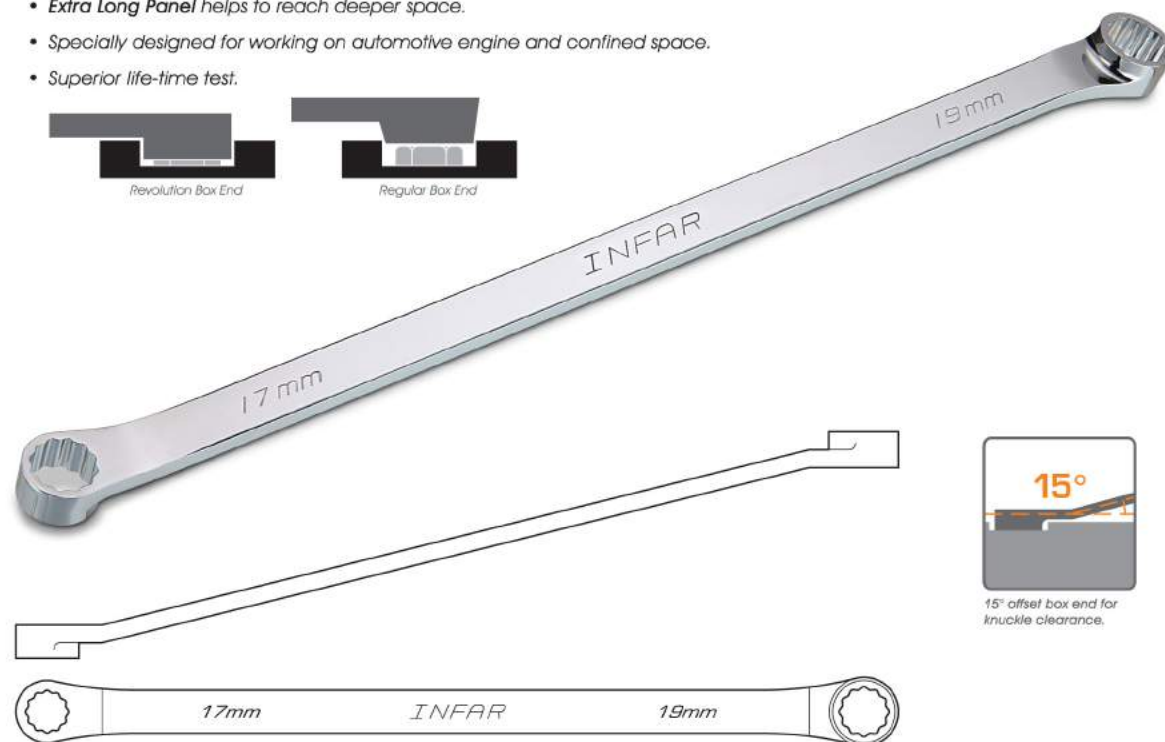
- Box end without chamfer increases the contact area with nuts, enhancing the torque of wrench.



Box end without chamfer fits all types of corrupted nuts.

L-TYPE EXTRA LONG 15° OFFSET DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- **Extra Long Panel** helps to reach deeper space.
- Specially designed for working on automotive engine and confined space.
- Superior life-time test.



15° offset box end for knuckle clearance.

L-TYPE EXTRA LONG 15° OFFSET DOUBLE BOX WRENCH

MEETS OR EXCEEDS **A.N.S.I.** STANDARD EXCEPT FOR DELIBERATE NON-CHAMFER BOX END **12 POINT** **JAPAN EXCLUSIVE**

Material | Chrome Vanadium Steel
Surface | Mirror / Micro Satin Finish
Feature | Super Flat Panel
15° Offset Box End without Chamfer
12 Point Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
5/16x3/8	67	230	8x10	64	230	17x19	345	394
7/16x1/2	161	320	10x12	119	283	22x24	534	424
9/16x5/8	244	358	11x12	119	283			
11/16x3/4	338	395	12x14	159	320			
13/16x7/8	540	423	14x17	242	358			
			16x19	345	394			

L-type Extra Long Double Box Wrench Set

PS Tray + Card + POF

- 5x MM 8x10, 12x14, 16x18, 17x19, 22x24mm
- 5x MM 10x12, 13x15, 14x17, 16x18, 19x22mm
- 4x SAE 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"
- 4x MM 8x10, 12x14, 17x19, 22x24mm
- 3x MM 12x14, 14x17, 17x19mm

L-type Extra Long 15° Offset Double Box Wrench Set

PS Tray + Card + POF

- 6x MM 8x10, 12x14, 13x15, 16x18, 17x19, 22x24mm
- 4x SAE 5/16"x3/8", 7/16"x1/2", 9/16"x5/8", 11/16"x3/4"



A-TYPE COMBINATION WRENCH

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **15° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.

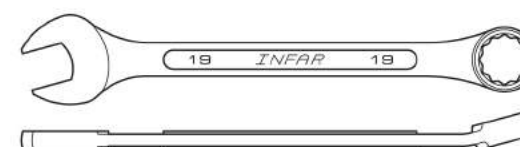


A-TYPE JUMBO COMBINATION WRENCH

MEETS OR EXCEEDS **A.N.S.I.** STANDARD **12 POINT**

Material | Medium Carbon Steel
Surface | Matt / Black Oxide Finish
Feature | Raised Panel
15° Offset Box End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1-5/16	1010	460	33	1020	460
1-3/8	1010	460	34	1010	460
1-7/16	1270	485	35	990	460
1-1/2	1260	485	36	1270	485
1-5/8	1680	539	38	1210	485
1-11/16	1660	539	40	1710	539
1-3/4	1960	610	41	1750	539
1-13/16	1940	610	42	1720	539
1-7/8	2490	610	45	1860	610
2"	2400	610	46	1900	610
2-1/16	4460	665	50	2420	610
2-1/8	4340	665	55	3900	665
2-3/16	4340	665	60	5530	760
2-1/4	3870	665	65	5330	760
2-5/16	3800	665			
2-3/8	5660	760			
2-7/16	5530	760			
2-1/2	5600	760			
2-9/16	5530	760			



A-TYPE COMBINATION WRENCH

MEETS OR EXCEEDS **A.N.S.I.** STANDARD **12 POINT** **6 POINT** **SPLINE**

Material | Medium Carbon / Chrome Vanadium Steel
Surface | Matt Finish
Feature | Raised Panel
15° Offset Box End
12 Point / 6 Point / Spline Box

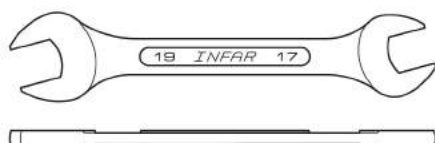
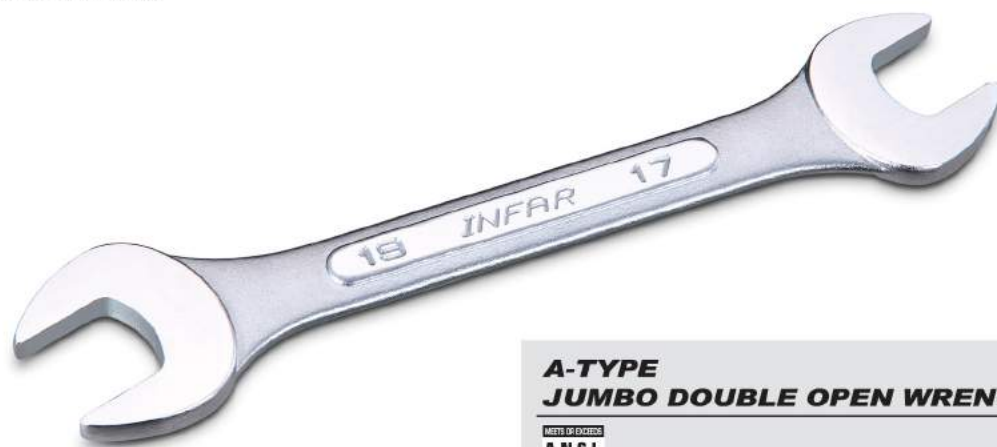
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	16	93	5.5	16	93	21	205	242
5/16	23	103	6	16	93	22	245	260
3/8	30	116	7	19	98	23	280	280
7/16	41	131	8	26	103	24	365	309
1/2	55	147	9	31	116	25	420	332
9/16	87	168	10	39	123	26	415	332
5/8	118	189	11	41	131	27	525	358
11/16	142	207	12	54	143	28	650	380
3/4	182	230	13	56	147	29	650	380
13/16	245	260	14	89	168	30	650	380
7/8	280	280	15	119	189	32	810	418
15/16	365	309	16	133	196			
1"	420	332	17	146	207			
1-1/16	525	358	18	154	220			
1-1/8	650	380	19	184	230			
1-1/4	810	418	20	174	230			



15° offset box end for knuckle clearance.

A-TYPE DOUBLE OPEN WRENCH

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



A-TYPE DOUBLE OPEN WRENCH

MEETS OR EXCEEDS
A.N.S.I.
STANDARDS

Material | Medium Carbon / Chrome Vanadium Steel
Surface | Matt Finish
Feature | Raised Panel

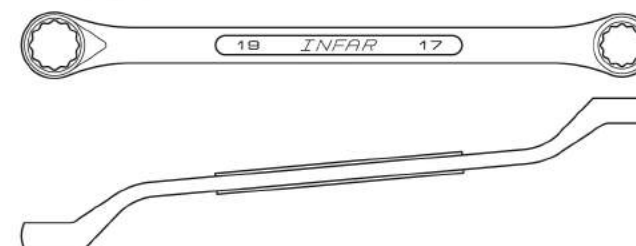
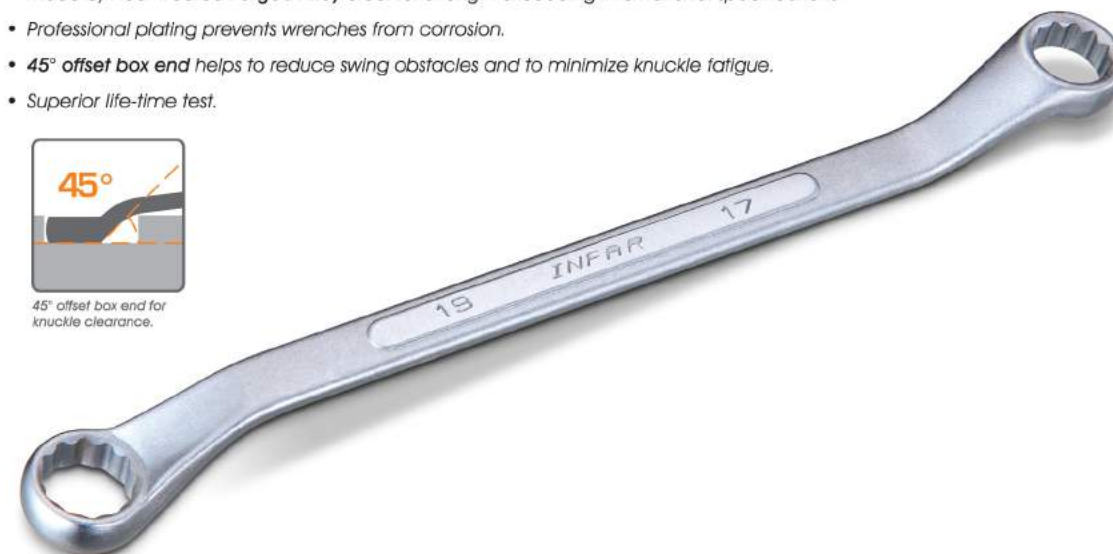
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	19	102	5.5x7	21	102	16x18	138	180	29x32	700	340
3/8x7/16	44	126	6x7	20	102	17x19	151	190	30x32	700	340
7/16x1/2	54	135	6x8	19	102	18x19	151	190			
1/2x9/16	82	152	7x8	20	102	19x21	230	210			
9/16x5/8	105	157	8x9	26	110	19x22	230	210			
19/32x11/16	106	157	8x10	28	110	19x24	230	210			
5/8x11/16	136	180	9x10	42	110	20x22	230	210			
5/8x3/4	136	180	10x11	43	126	21x23	210	210			
11/16x3/4	149	190	10x12	42	126	22x24	210	210			
11/16x13/16	220	210	10x13	54	135	23x26	330	257			
3/4x13/16	220	210	11x12	54	135	24x25	330	257			
3/4x7/8	220	210	11x13	53	135	24x26	330	257			
13/16x7/8	220	210	12x13	83	152	24x27	330	257			
15/16x1"	330	257	12x14	81	152	24x30	510	285			
1"x1-1/16	330	285	13x14	104	157	25x27	510	285			
1"x1-1/8	330	285	13x17	109	157	25x28	500	285			
1-1/16x1-1/8	700	340	14x15	116	157	26x29	500	285			
1-1/8x1-1/4	700	340	14x17	115	157	27x30	700	340			
1-3/16x1-1/4	700	340	15x17	146	180	27x32	700	340			
			16x17	134	180	28x30	700	340			

A-TYPE 45° OFFSET DOUBLE BOX WRENCH

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **45° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



45° offset box end for knuckle clearance.



A-TYPE 45° OFFSET DOUBLE BOX WRENCH

MEETS OR EXCEEDS
A.N.S.I.
STANDARDS

Material | Medium Carbon / Chrome Vanadium Steel
Surface | Matt Finish
Feature | Raised Panel
45° Offset Box End
12 Point / Spline Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	47	164	6x7	50	164	18x19	260	282
1/4x3/8	47	164	6x8	47	164	19x21	260	288
3/8x7/16	62	180	7x9	47	164	19x22	260	288
7/16x1/2	108	206	8x9	44	164	20x22	330	315
1/2x9/16	108	206	8x10	47	164	21x22	330	315
9/16x5/8	130	232	9x10	47	164	21x23	330	315
5/8x11/16	155	237	9x11	62	180	22x24	510	362
5/8x3/4	201	254	10x11	61	180	23x24	510	362
11/16x13/16	260	282	10x12	57	180	23x26	500	362
3/4x25/32	260	282	11x13	108	206	24x26	500	362
3/4x7/8	260	288	12x13	108	206	24x27	680	410
13/16x7/8	330	315	12x14	108	206	24x30	680	410
7/8x15/16	490	362	13x14	130	232	25x28	680	410
15/16x1"	490	362	13x15	130	232	26x29	680	410
1"x1-1/8	680	410	14x15	127	232	26x30	950	410
1-1/16x1-1/8	680	410	14x17	153	237	27x30	950	465
1-1/16x1-1/4	950	465	15x17	163	237	27x32	950	465
1-1/8x1-1/4	950	465	16x17	158	237	29x32	950	465
1-3/16x1-1/4	950	465	16x18	201	254	30x32	950	465
			17x19	260	282			

A-TYPE FLARE NUT WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **6 point** double end flare nut wrench.
- Designed to work on a variety of fittings, such as fuel, brake, and air conditioning lines.
- **15° offset flare nut drive** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



A-TYPE FLARE NUT WRENCH



Material | Chrome Vanadium Steel
Surface | Matt Finish
Feature | Raised Panel
15° Offset Flare Nut Drive
6 Point Box

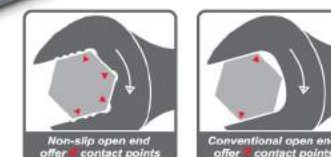
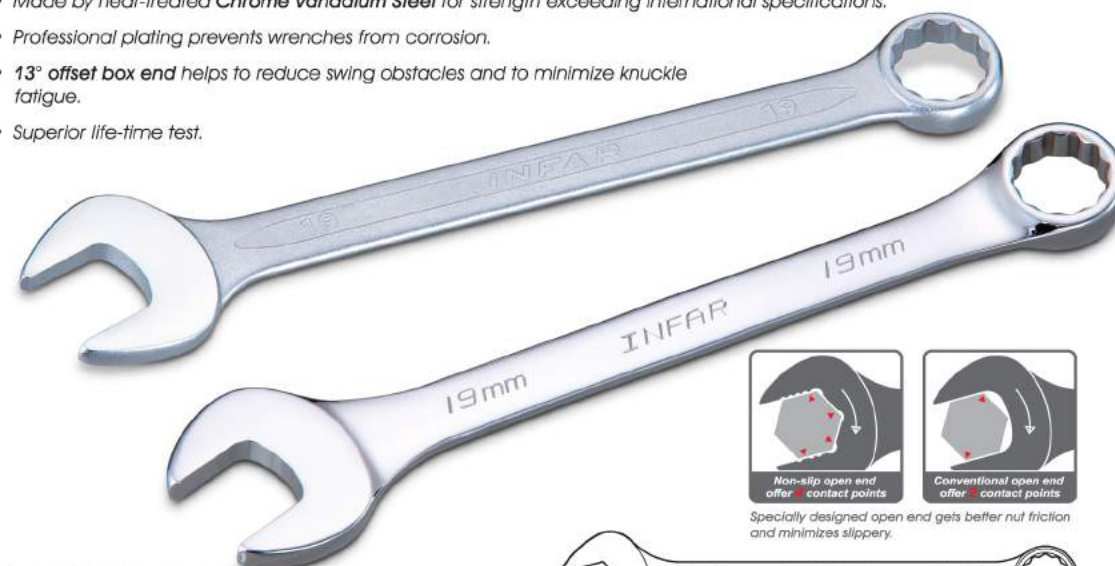
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	37	135	6x8	38	135
3/8x7/16	64	154	8x9	37	135
1/2x9/16	97	174	8x10	36	135
5/8x11/16	133	199	9x10	35	135
3/4x7/8	193	224	9x11	64	154
			10x11	65	154
			10x12	66	154
			11x12	62	154
			12x13	97	174
			12x14	93	174
			13x14	96	174
			14x17	134	199
			15x17	133	199
			16x18	130	199
			19x21	190	224
			19x22	190	224
			20x22	186	224



15° offset flare nut drive for knuckle clearance.

GERMAN-TYPE COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **13° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



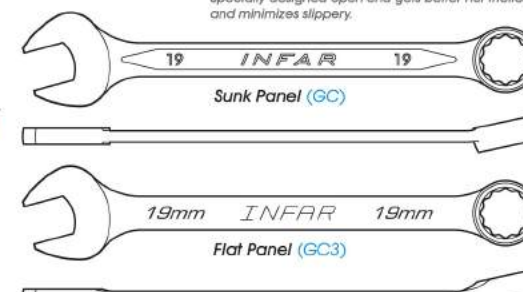
Specially designed open end gets better nut friction and minimizes slippage.

GERMAN-TYPE COMBINATION WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Meets or Exceeds DIN3113 Standards
Sunk / Flat Panel
13° Offset Box End
12 Point / Spline Box
Regular / Non-slip Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	15	100	5	11	93
9/32	18	110	5.5	11	93
5/16	26	120	6	15	100
11/32	30	130	7	18	110
3/8	38	140	8	23	120
7/16	46	150	9	31	130
1/2	68	170	10	34	140
9/16	79	180	11	47	150
5/8	110	200	12	53	160
11/16	141	210	13	65	170
3/4	150	230	14	82	180
25/32	168	240	15	92	190
13/16	194	250	16	103	200
7/8	225	260	17	123	210
15/16	295	280	18	137	220
1"	330	295	19	158	230
1-1/16	385	310	20	169	240
1-1/8	505	340	21	196	250
1-1/4	600	360	22	220	260
1-5/16	635	380	23	215	260
1-3/8	810	410	24	280	280
1-7/16	805	410	25	320	295
1-1/2	995	430	26	310	295
1-5/8	1265	460	27	385	310
1-11/16	1260	460	28	495	340
1-3/4	1635	500	29	495	340
1-13/16	1625	500	30	495	340
1-7/8	2110	540	32	550	360
2"	2075	540	33	670	380
			34	640	380



Material | Chrome Vanadium Steel (WG)
Surface | Mirror / Matt / Micro Satin Finish
Feature | Meets or Exceeds Whitworth Standards
Sunk / Flat Panel
13° Offset Box End

Size (ww inch)	Wt. (g)	L (mm)
ww1/8	39	140
ww3/16	54	160
ww1/4	85	180
ww5/16	106	200
ww3/8	133	220
ww7/16	195	250
ww1/2	295	280
ww9/16	330	295
ww5/8	510	340
ww11/16	600	360
ww3/4	640	380
ww7/8	970	410



13° offset box end for knuckle clearance.

Note: Jumbo size above 70mm only supply with laser marking.

GERMAN-TYPE DOUBLE OPEN WRENCH

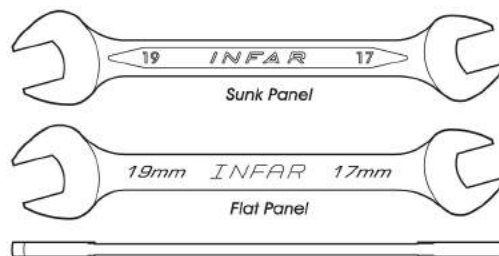
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



GERMAN-TYPE DOUBLE BOX WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | **Meets or Exceeds DIN3110 Standards**
Sunk / Panel Panel
Regular / Non-slip Open End



Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	20	122	4x5	-	112
5/16x11/32	32	140	5x5.5	-	112
5/16x3/8	32	140	5.5x7	20	122
11/32x13/32	32	140	6x7	20	122
3/8x7/16	47	156	7x8	20	122
7/16x1/2	62	172	8x9	32	140
7/16x17/32	62	172	8x10	32	140
1/2x9/16	72	180	10x11	47	156
9/16x5/8	90	188	10x12	47	156
5/8x11/16	134	204	10x13	62	172
5/8x3/4	120	204	11x13	61	172
11/16x3/4	147	220	12x13	63	172
3/4x13/16	196	234	12x14	72	180
25/32x13/16	196	234	13x14	71	180
3/4x7/8	196	234	13x15	90	188
13/16x7/8	225	247	13x17	88	188
13/16x15/16	225	247	14x15	92	188
7/8x15/16	225	247	14x17	90	188
15/16x1"	330	266	16x17	118	204
1"x1-1/16	380	285	16x18	120	204
1"x1-1/8	380	285	17x19	158	220
1-1/16x1-1/4	485	302	18x19	146	220
1-1/8x1-5/16	485	302	18x21	192	234
1-3/16x1-5/16	485	302	19x21	192	234
1-1/4x1-3/8	620	319	19x22	192	234
1-5/16x1-1/2	615	319	19x24	200	234
1-3/8x1-1/2	615	319	20x21	200	234
1-7/16x1-5/8	920	380	20x22	200	234
1-11/16x1-7/8	1450	415	21x23	220	247
1-13/16x2"	1770	465	21x24	225	247

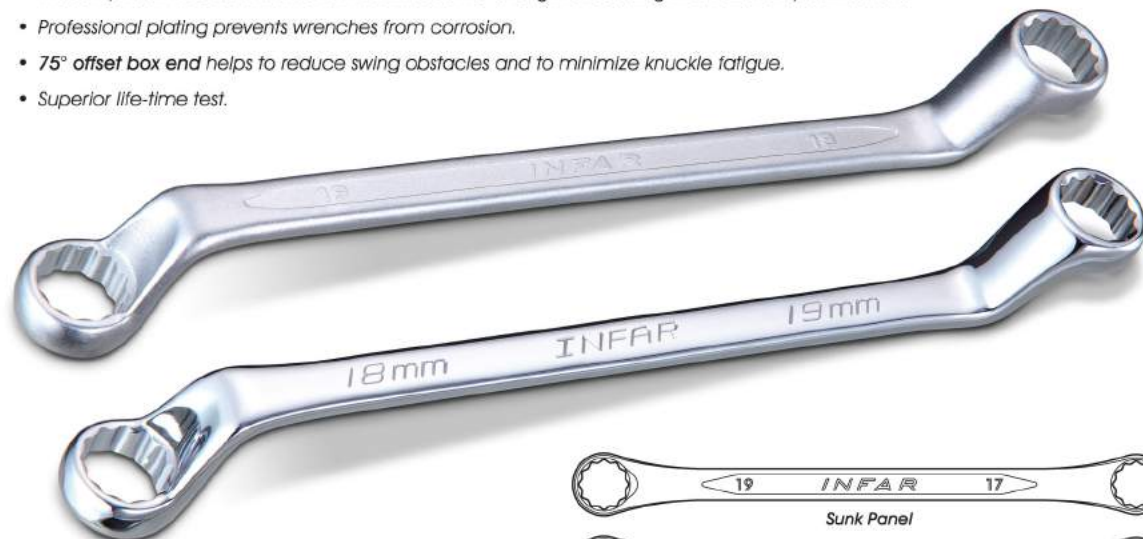


Material | Chrome Vanadium Steel (WGO)
Surface | Mirror / Matt / Micro Satin Finish
Feature | **Meets or Exceeds Whitworth Standards**
Sunk / Flat Panel

Size (ww inch)	Wt. (g)	L (mm)
ww1/8x ww3/16	48	156
ww3/16x ww1/4	62	172
ww1/4x ww5/16	90	188
ww5/16x ww3/8	121	204
ww3/8x ww7/16	143	220
ww7/16x ww1/2	220	247
ww1/2x ww9/16	325	266
ww9/16x ww5/8	380	285
ww9/16x ww11/16	370	285
ww5/8x ww11/16	460	302
ww5/8x ww3/4	455	302
ww11/16x ww3/4	450	302
ww3/4x ww7/8	615	319

GERMAN-TYPE 75° OFFSET DOUBLE BOX WRENCH

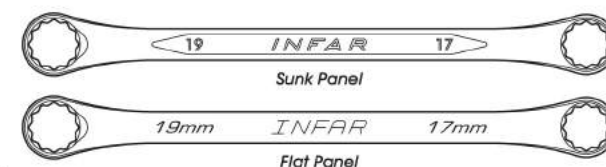
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **75° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



GERMAN-TYPE 75° OFFSET DOUBLE BOX WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | **Meets or Exceeds DIN838 Standards**
Sunk / Panel Panel
75° Offset Box End
12 Point / Spline Bo



Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	42	170	5x5.5	28	160
5/16x3/8	82	190	6x7	45	170
3/8x7/16	92	199	8x9	70	182
7/16x1/2	129	213	8x10	79	190
1/2x9/16	158	228	9x11	90	199
9/16x5/8	200	246	10x11	90	199
5/8x11/16	200	246	10x12	92	199
11/16x3/4	265	265	10x13	126	213
3/4x7/8	315	288	11x13	126	213
13/16x7/8	345	310	12x13	126	213
13/16x15/16	345	310	13x17	195	245
15/16x1"	475	330	14x15	155	228
1"x1-1/8	550	348	14x17	193	246
1-1/16x1-1/4	655	372	16x17	193	246
1-1/8x1-1/4	635	372	16x18	193	246
1-1/4x1-3/8	965	417	17x19	245	265
			18x19	240	265
			19x21	315	288
			19x22	315	288
			19x24	-	295
			20x21	315	288
			20x22	315	288
			21x22	345	310
			21x23	345	310
			22x23	345	310
			22x24	345	310
			24x25	480	330
			24x26	480	330
			24x27	475	330
			24x30	-	340



75° offset box end for knuckle clearance.

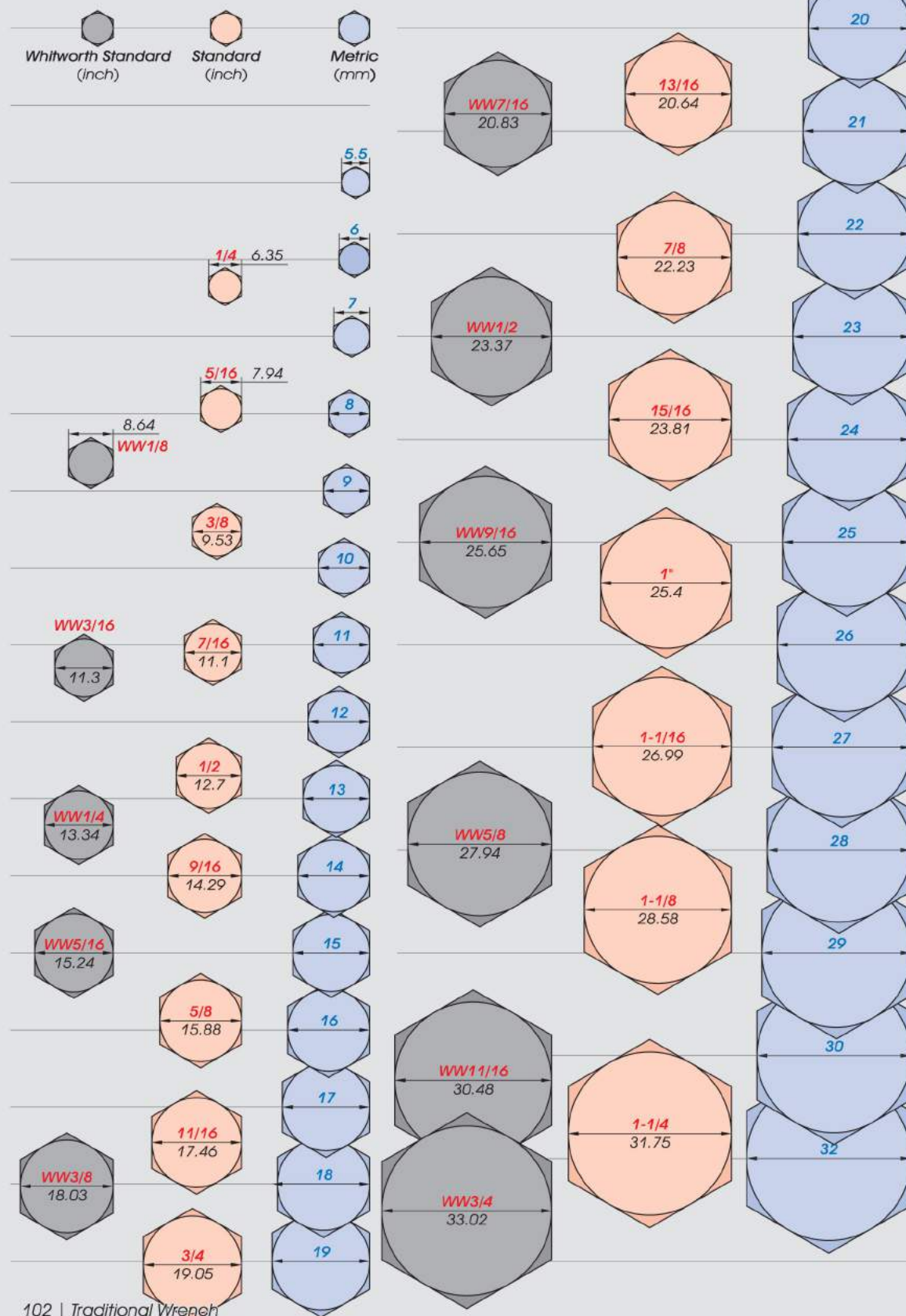


Material | Chrome Vanadium Steel (WGBX)
Surface | Mirror / Matt / Micro Satin Finish
Feature | **Meets or Exceeds Whitworth Standards**
Sunk / Flat Panel
75° Offset Box End

Size (ww inch)	Wt. (g)	L (mm)
ww1/8x ww3/16	92	199
ww3/16x ww1/4	133	213
ww1/4x ww5/16	161	228
ww5/16x ww3/8	194	246
ww3/8x ww7/16	330	288
ww7/16x ww1/2	355	310
ww1/2x ww9/16	480	330
ww9/16x ww5/8	665	372
ww9/16x ww11/16	660	372
ww11/16x ww3/4	965	417
ww7/8x ww1"	1040	450

THE NUTS WORLD

GERMAN-TYPE 70° OFFSET COMBINATION WRENCH



- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **70° offset box end** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.

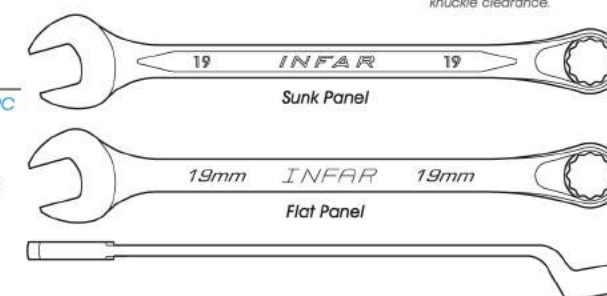


GERMAN-TYPE 70° OFFSET COMBINATION WRENCH



Material | Chrome Vanadium Steel
 Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
 Feature | Meets or Exceeds DIN31138 Standards
 Sunk / Panel Panel
 70° Offset Box End
 12 Point / Spline Box
 Regular / Non-slip Open End

GRC



Size (Inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4	17	125	6	17	125	26	450	348
5/16	32	145	7	21	135	27	570	370
3/8	44	165	8	32	145	28	555	370
7/16	56	172	9	41	155	29	665	390
1/2	77	195	10	44	165	30	650	390
9/16	89	210	11	56	172	32	815	412
5/8	132	230	12	67	180			
11/16	150	240	13	77	195			
3/4	191	265	14	89	210			
13/16	240	280	15	107	215			
7/8	275	300	16	132	230			
15/16	340	320	17	150	240			
1	455	348	18	167	255			
1-1/16	570	370	19	191	265			
1-1/8	665	390	20	245	280			
1-1/4	815	412	21	240	280			
			22	275	300			
			23	350	320			
			24	340	320			
			25	455	348			

H-TYPE FLARE NUT WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **6/12 point** double end flare nut wrench.
- Designed to work on a variety of fittings, such as fuel, brake, and air conditioning lines.
- **13° offset flare nut drive** helps to reduce swing obstacles and to minimize knuckle fatigue.
- Superior life-time test.



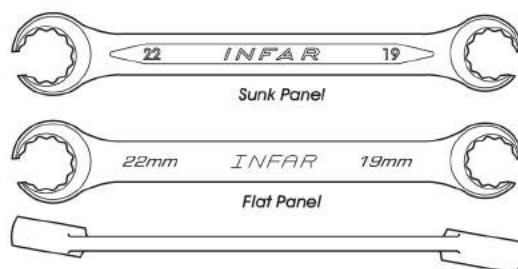
13° offset flare nut drive for knuckle clearance.

GERMAN-TYPE FLARE NUT WRENCH



GFV6/GFV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Meets or Exceeds DIN3118 Standards
Sunk / Panel Panel
13° Offset Flare Nut Drive
6 Point(GFV6) / 12 Point(GFV) Box



Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
1/4x5/16	42	139	7x9	42	139	16x18	187	213
5/16x3/8	42	139	8x9	44	139	17x19	182	213
3/8x7/16	56	153	8x10	41	139	18x19	184	213
7/16x1/2	82	174	9x10	42	139	19x21	230	228
1/2x9/16	74	174	9x11	57	153	19x22	230	228
9/16x5/8	145	195	10x11	57	153	21x23	330	243
5/8x11/16	145	195	10x12	56	153	22x24	320	243
11/16x3/4	183	213	11x12	56	153	24x26	415	258
3/4x7/8	230	228	11x13	82	174	24x27	415	258
7/8x15/16	320	243	12x13	81	174	24x32	-	287
15/16x1"	415	258	12x14	77	174	25x28	595	297
1"x1-1/8	595	297	13x14	79	174	30x32	595	297
1-1/8x1-1/4	595	297	13x15	96	175	36x41	1020	317
			14x15	94	175			
			14x17	142	195			
			15x17	139	195			

GERMAN-TYPE WRENCH ASSORTMENT

German-type Combination Wrench Set

PP Rack + Color Sleeve / PP Rack + Color Box

12x MM 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19mm

8x MM 8, 9, 10, 11, 13, 14, 17, 19mm

7x MM 8, 10, 12, 13, 14, 17, 19mm



German-type Double Open Wrench Set

PP Rack + Color Sleeve / PP Rack + Color Box

8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

7x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19mm

6x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17mm



German-type 75° Offset Double Box Wrench Set

PP Rack + Color Box

8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

6x MM 8x9, 10x11, 12x13, 14x15, 16x17, 18x19mm



German-type Flare Nut Wrench Set

ABS Rack + Label

5x MM 7x9, 8x10, 11x13, 12x14, 17x19mm



GERMAN-TYPE WRENCH ASSORTMENT

GERMAN-TYPE WRENCH ASSORTMENT

German-type Combination Wrench Set

PP Rack (PAT.P.) + Label

12x SAE (x) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16"

12x MM (x) 7, 8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24mm

10x MM (x) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

9x SAE (x) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

9x MM (x) 8, 10, 11, 12, 13, 14, 15, 17, 19mm



German-type 70° Offset Combination Wrench Set

PP Rack (PAT.P.) + Label

10x MM (x) 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

9x SAE (x) 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

9x MM (x) 8, 10, 11, 12, 13, 14, 15, 17, 19mm



German-type Double Open Wrench Set

PP Rack (PAT.P.) + Label

12x MM (x) 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32mm

8x MM (x) 4x5, 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19mm



5x German-type Flare Nut Wrench Set

PP Rack (PAT.P.) + Label

5x MM (x) 7x9, 8x10, 11x13, 12x14, 17x19mm



7x German-type 70° Offset Combination Wrench Set

PS Tray + Card + POF

7x MM 8, 10, 12, 13, 14, 17, 19mm

8x German-type Combination Wrench Set

New PP Rack + Label

8x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

8x MM 8, 10, 11, 12, 13, 14, 17, 19mm



8x German-type Double Open Wrench Set

New PP Rack + Label

8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

6x German-type 75° Offset Double Box Wrench Set

PP Rack (PAT.P.) + Label

6x MM (x) 8x9, 10x11, 12x13, 14x15, 16x17, 18x19mm



GERMAN-TYPE WRENCH ASSORTMENT

MINI DOUBLE OPEN WRENCH

German-type Combination Wrench Set

PP Holder + Label

8x MM 8, 10, 12, 13, 14, 17, 19, 22mm

8x German-type 70° Offset Combination Wrench Set

PP Holder + Label

8x MM 8, 10, 12, 13, 14, 17, 19, 22mm

8x German-type Double Open Wrench Set

PP Holder + Label

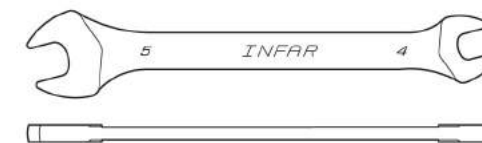
8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

8x German-type 75° Offset Double Box Wrench Set

PP Holder + Label

8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

- Made by Medium Carbon Steel.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



MINI DOUBLE OPEN WRENCH

Material | Medium Carbon Steel
Surface | Matt Finish
Feature | Flat Panel

Size (mm)	Wt. (g)	L (mm)
3.2x4	6.6	70
4x5	6.2	70
5x5.5	11.4	80
5.5x6	11.6	80
6x7	11.2	80
7x8	15.8	89.4

MOA



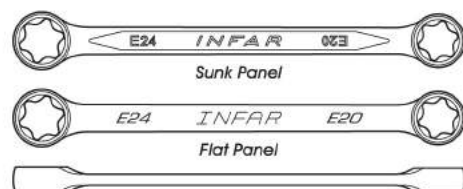
6x Metric Mini Double Open Wrench Set

Bag + POF

6x MM 3.2x4, 4x5, 5x5.5, 5.5x6, 6x7, 7x8mm

STAR E-TYPE DOUBLE BOX WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



STAR E-TYPE DOUBLE BOX WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Sunk / Flat Panel
Flat Offset Box End
Star Box

★ Size (star)	Wt. (g)	L (mm)
E6xE7	18	112
E6xE8	18	112
E7xE11	40	140
E8xE10	42	140
E10xE12	42	140
E11xE12	42	140
E14xE16	76	180
E14xE18	74	180
E16xE22	182	224
E18xE20	177	224
E20xE24	169	224
E22xE24	161	224



5x Star E-type Double Box Wrench Set

PVC Single Blister + Cardboard

5x Star E6xE8, E10xE12, E14xE16, E18xE20, E22xE24



16x Star Wrench & Socket Set

PS Tray + PVC Single Blister + Cardboard

Content | 4x Star E-type Double Box Wrenches:

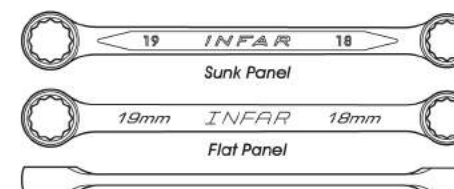
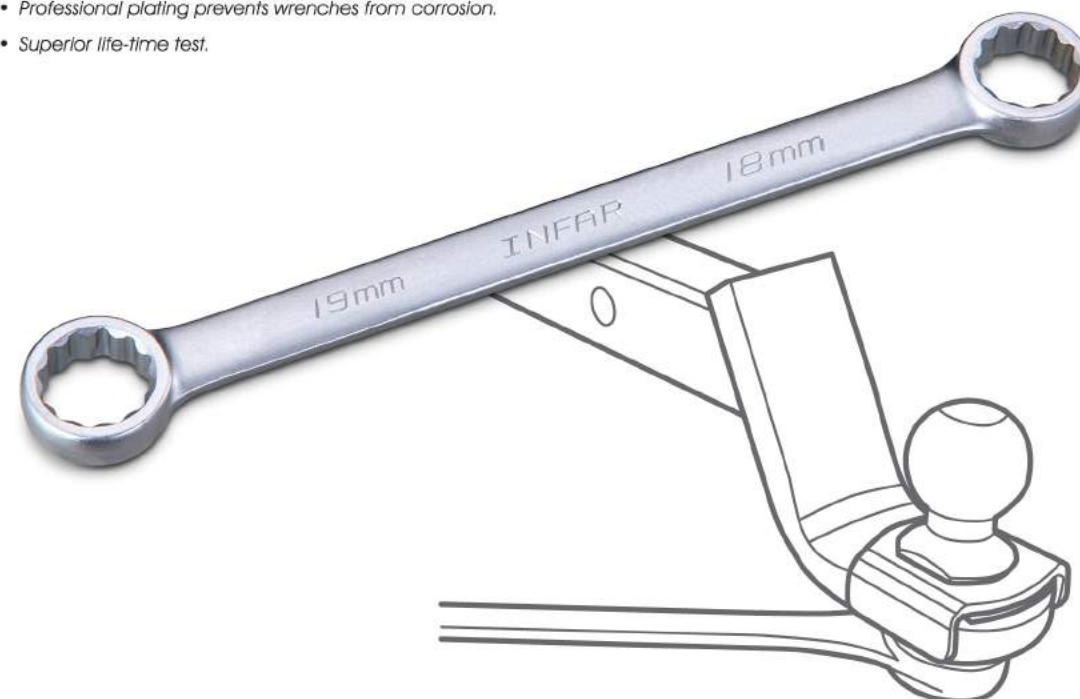
E6xE8, E10xE12, E14xE16, E18xE20

12x 3/8" Dr Star Sockets:

E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18, E20

E-TYPE HITCH BALL WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



E-TYPE HITCH BALL WRENCH



Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | Sunk / Flat Panel
Flat Offset Box End
12 Point Box

Size (mm)	Wt. (g)	L (mm)
6x7	16	120
8x9	28	140
10x11	46	155
12x13	64	163
14x15	90	180
16x17	116	212
18x19	152	224
20x22	236	255
21x23	236	255
24x26	410	318
25x28	410	318
30x32	490	336



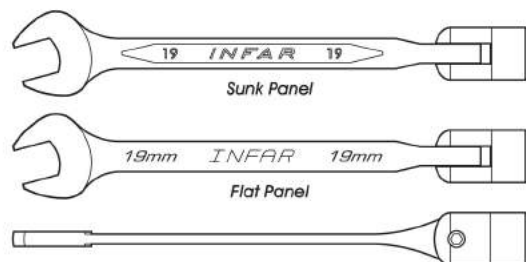
8x E-type Hitch Ball Wrench Set

New PP Rack + Label

8x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm

FLEXIBLE SOCKET COMBINATION WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **Flexible socket** tilts 180° at any interval with continuous socket tension.
- Superior life-time test.



FLEXIBLE SOCKET COMBINATION WRENCH



SWFX

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Sunk / Flat Panel
180° Flexible Socket
12 Point Box

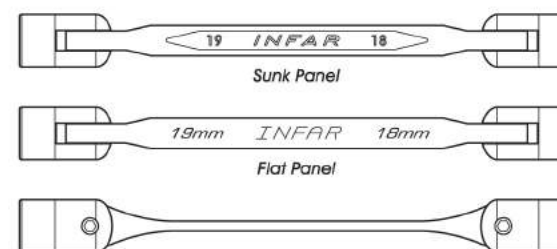
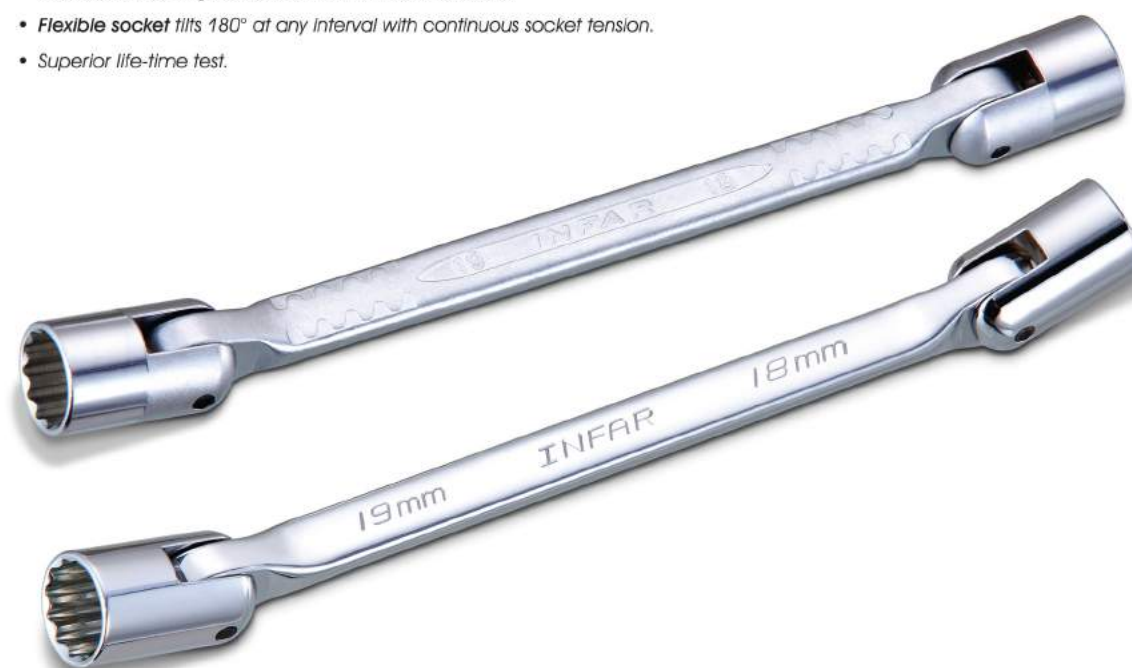
Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
3/8	75	180	8	65	170
7/16	105	190	9	65	170
1/2	186	210	10	75	180
9/16	195	230	11	105	190
5/8	234	235	12	115	195
11/16	234	235	13	186	210
3/4	310	255	14	195	230
			15	195	230
			16	234	235
			17	234	235
			18	310	255
			19	310	255



Flexible socket tilts 180° at any interval with continuous socket tension.

DOUBLE FLEXIBLE SOCKET WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- **Flexible socket** tilts 180° at any interval with continuous socket tension.
- Superior life-time test.



DOUBLE FLEXIBLE SOCKET WRENCH



SWDFX

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Sunk / Flat Panel
180° Flexible Socket
12 Point Box

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
3/8x7/16	108	200	6x7	75	180
1/2x9/16	195	225	8x9	75	180
5/8x11/16	330	260	8x10	90	185
11/16x3/4	335	260	10x11	115	200
3/4x7/8	520	300	10x12	125	205
			10x13	127	205
			11x13	130	205
			12x13	155	220
			12x14	170	225
			13x17	240	242
			14x15	240	242
			14x17	250	244
			15x18	-	265
			16x17	330	254
			17x19	330	260
			18x19	410	275
			19x22	410	300
			20x21	640	305
			20x22	640	305
			21x22	640	305
			21x23	640	305
			24x27	780	335
			30x32	980	340



Flexible socket tilts 180° at any interval with continuous socket tension.



7x Double Flexible Socket Wrench Set

PS Tray + Card + POF

7x MM 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19mm

3/8" DRIVE CROWFOOT WRENCH



- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Crowfoot wrenches can be used with 3/8" drive accessories.
- Superior life-time test.

3/8" DRIVE CROWFOOT WRENCH

3/8" OH

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Open End

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
3/8	26	33.4	10	26	33.4
7/16	25	33.4	11	26	33.4
1/2	28	36.5	12	32	36.5
9/16	35	39.1	13	30	36.5
5/8	43	41.7	14	34	39.1
11/16	51	44.2	15	42	41.7
3/4	62	46.3	16	40	41.7
13/16	80	50.5	17	48	44.2
7/8	99	54.1	18	60	46.3
1	121	62.2	19	62	46.3



10x 3/8" Dr Crowfoot Wrench Set

Metal Rail + PVC Single Blister + Cardboard

10x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 1"

10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

3/8" DRIVE FLARE NUT CROWFOOT WRENCH



- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Designed to work on a variety of fittings, such as fuel, brake, and air conditioning lines.
- Crowfoot wrenches can be used with 3/8" drive accessories.
- Superior life-time test.

3/8" DRIVE FLARE NUT CROWFOOT WRENCH

3/8" CFV

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Flare Nut Drive

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
3/8	38	36.8	10	37	36.8
7/16	36	36.8	11	36	36.8
1/2	34	36.8	12	34	36.8
9/16	51	42.4	13	33	36.8
5/8	49	42.4	14	51	42.4
11/16	66	47.7	15	50	42.4
3/4	65	47.7	16	48	42.4
			17	68	47.7
			18	66	47.7
			19	64	47.7



3/8" Dr Flare Nut Crowfoot Wrench Set

Metal Rail + PVC Single Blister + Cardboard

10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

7x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

SINGLE OPEN STRIKING WRENCH SINGLE BOX WRENCH

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Striking wrench have a heavy-duty design for sure efficient transmittal of force.
- **Heavy open end** provide greater torque transmission.
- Superior life-time test.



SINGLE OPEN STRIKING WRENCH

MEETS OR EXCEEDS
DIN
STANDARDS

ISO

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Meets or Exceeds DIN894 Standards
Sunk Panel
Heavy Open End

Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
16	100	160	26	266	215	43	1015	335
17	100	160	27	266	215	44	1230	370
18	100	160	28	352	240	45	1230	370
19	120	175	29	352	240	46	1230	370
20	120	175	30	352	240	48	1810	410
21	120	175	32	467	270	50	1810	410
22	177	195	34	467	270	55	2690	488
23	177	195	36	700	296	60	2690	488
24	177	195	38	700	296	65	2690	488
25	266	215	41	1015	335	70	4770	595
						75	4770	595

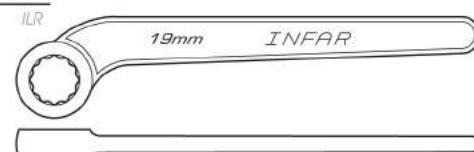
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



SINGLE BOX WRENCH

12 POINT

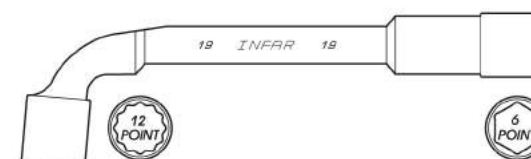
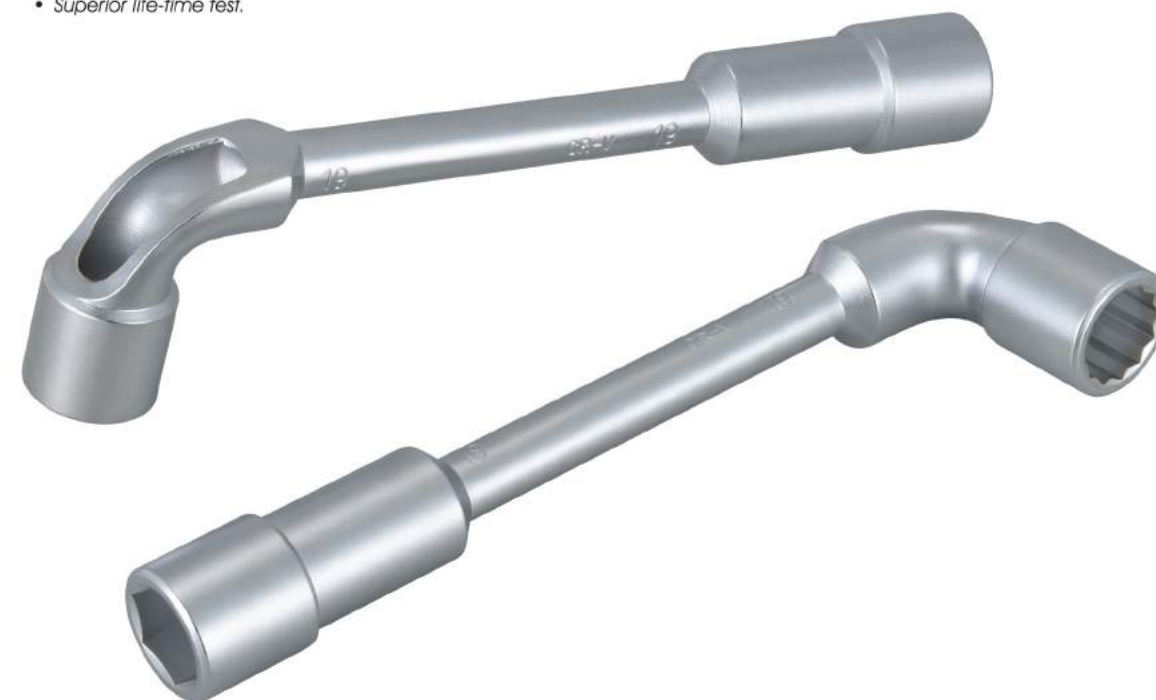
Material | Chrome Vanadium Steel
Surface | Matt / Micro Satin Finish
Feature | Sunk Panel
Flat Offset Box End
12 Point Box



Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
10	32	119	18	182	207	27	364	270
11	30	119	19	178	207	30	488	295
12	80	150	20	176	207	32	462	295
13	76	150	21	174	207	35	612	307
14	74	150	22	284	250	36	612	307
15	118	174	23	282	250	38	806	341
16	118	174	24	276	250	41	792	341
17	112	174	26	368	270			

ANGLE WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.



ANGLE WRENCH

WL001

12 POINT 6 POINT

Material | Chrome Vanadium Steel
Surface | Mirror / Matt Finish
Feature | 6 & 12 Point Box

Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
6	36	105	27	853	285
7	38	105	30	1252	320
8	66	118	32	1376	338
9	71	130			
10	113	145			
11	116	145			
12	150	150			
13	173	155			
14	212	175			
15	230	180			
16	338	200			
17	355	200			
18	387	215			
19	437	215			
22	567	245			
24	680	250			

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Fitted on 8mm open end of **all types**.
- Superior life-time test.



MECHANIC SPECIALTY TOOL CONTENTS



Dual flat drive technology on box end to maximize contact on fasteners.



WARNING:
Always wear ANSI approved safety goggles when working with wrenches and equipment. Do not use the wrenches as striking tools. Never work on live electrical circuits.

SOCKET

A.N.S.I. Socket / Deep Socket	122
DIN Socket / Deep Socket	125
Star Socket / Deep Socket	127
3/4" Drive Socket	128
1" Drive Socket	129
Bit Socket	131
T-handle Socket	136

RATCHET HANDLE

90 Teeth Ratchet Handle	137
Mini Head Ratchet Handle	138
Flexible Head Ratchet Handle	141
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CONNECTED TABLE | AVAILABLE COLLOCATIONS OF SOCKET FEATURES

Socket	Drive	Standard	Point	Groove	Knurling
					
Socket	1/4" Drive	A.N.S.I. Standards	12 Point Socket	None Groove	None Knurling
					
Deep Socket	3/8" Drive	DIN Standards	Star Socket	Single Groove	Line Knurling
	1/2" Drive				
				Knurling(Typing)	Intersection Knurling
Surface Finish					
					
Mirror	Matt	Twin	Micro Satin		
Color Electro-deposition					
					

COMPARATIVE TABLE AVAILABLE SIZES OF DIFFERENT FASTENERS

• Spline socket works on all fastener types.

Size (mm/inch)		Size (mm/inch)		Size (mm)		Size (star)		Size (mm/inch)		Size (mm/inch)		Size (mm)		Size (star)	
4	5/32	3.5	1/8	4	-	19	3/4	16	5/8	19	E24	19	5/8	19	E24
5	3/16	4	5/32	4.5	-	21	13/16	18	11/16	21	-	21	11/16	21	-
5.5	7/32	4.5	3/16	5	-	22	7/8	19	3/4	22	E28	22	3/4	22	E28
6	-	5	-	6	-	24	15/16	20	25/32	24	-	24	15/16	24	-
7	9/32	6	-	7	-	30	1-3/16	25	1"	30	-	30	1"	30	-
8	5/16	7	9/32	8	E10										
9	11/32	8	5/16	9	-										
10	3/8	-	11/32	10	E12										
11	7/16	9	3/8	11	E14										
12	15/32	10	13/32	12	-										
13	1/2	11	7/16	13	E16										
14	9/16	12	15/32	14	E18										
15	19/32	-	1/2	15	-										
16	5/8	13	17/32	16	E20										
17	11/16	14	9/16	17	E22										
18	-	15	19/32	18	-										

A.N.S.I. SOCKET

A.N.S.I. SOCKET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents sockets from corrosion.
- Superior life-time test.

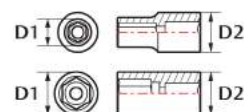
1/4" DRIVE A.N.S.I. SOCKET



2SKTA

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Single Groove / Knurling (Typing)

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
5/32	10	6.8	11.8	25
3/16	10	7.9	11.8	25
7/32	10	8.9	11.8	25
1/4	11	9.9	11.8	25
9/32	11	10.9	11.8	25
5/16	12	11.8	11.8	25
11/32	15	12.8	12.8	25
3/8	16	13.8	13.8	25
13/32	17	15.8	15.8	25
7/16	22	15.8	15.8	25
15/32	24	16.8	16.8	25
1/2	28	17.8	17.8	25
17/32	28	17.8	17.8	25
9/16	34	19.8	19.8	25



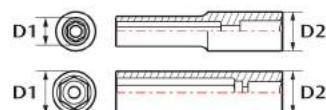
1/4" DRIVE A.N.S.I. DEEP SOCKET



2DSKA

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point Socket
None / Single Groove / Knurling (Typing)

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
5/32	20	7.0	11.8	50
3/16	20	7.9	11.8	50
7/32	20	8.9	11.8	50
1/4	22	9.9	11.8	50
9/32	24	10.9	11.8	50
5/16	24	11.8	11.8	50
11/32	30	12.8	12.8	50
3/8	38	13.8	13.8	50
13/32	42	15.8	15.8	50
7/16	40	15.8	15.8	50
15/32	50	16.8	16.8	50
1/2	52	17.8	17.8	50
17/32	52	17.8	17.8	50
9/16	74	19.8	19.8	50



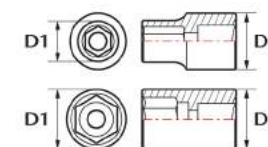
3/8" DRIVE A.N.S.I. SOCKET



3SKTA

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Single Groove / Knurling (Typing)

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
1/4	22	10.0	16.8	28
5/16	22	11.9	16.8	28
3/8	24	14.3	16.8	28
7/16	26	16.8	16.8	28
1/2	29	17.8	17.8	28
9/16	34	19.8	19.8	28
5/8	43	21.8	21.8	28
11/16	57	23.8	23.8	30
3/4	68	25.8	25.8	30
13/16	81	27.8	27.8	30
7/8	95	29.8	29.8	30
15/16	102	31.8	31.8	30



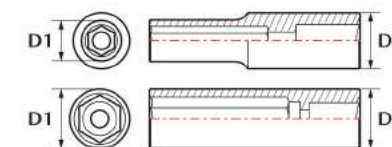
3/8" DRIVE A.N.S.I. DEEP SOCKET



3DSKA

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Single Groove / Knurling (Typing)

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
1/4	-	10.0	16.8	63
5/16	49	11.9	16.8	63
3/8	55	14.3	16.8	63
7/16	60	16.8	16.8	63
1/2	77	17.8	17.8	63
9/16	82	19.8	19.8	63
5/8	99	21.8	21.8	63
11/16	122	23.8	23.8	63
3/4	146	25.8	25.8	63
13/16	-	27.8	27.8	63
7/8	-	29.8	29.8	63
15/16	-	31.8	31.8	63



A.N.S.I. SOCKET

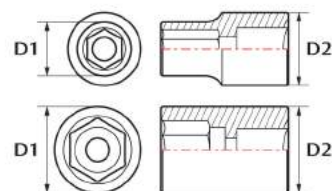
DIN SOCKET

1/2" DRIVE A.N.S.I. SOCKET

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Single Groove / Knurling (Typing)

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
1/4	46	10.0	21.8	38	6	46	9.9	21.8	38
5/16	46	12.0	21.8	38	7	46	10.9	21.8	38
3/8	48	14.7	21.8	38	8	48	12.0	21.8	38
7/16	48	16.9	21.8	38	9	48	13.4	21.8	38
1/2	50	18.9	21.8	38	10	48	15.4	21.8	38
9/16	51	20.7	21.8	38	11	48	16.6	21.8	38
5/8	50	21.8	21.8	38	12	48	17.9	21.8	38
11/16	62	23.8	23.8	38	13	50	19.1	21.8	38
3/4	77	25.8	25.8	38	14	52	20.4	21.8	38
13/16	91	27.8	27.8	38	15	55	21.8	21.8	38
7/8	110	29.8	29.8	38	16	52	21.8	21.8	38
15/16	126	31.8	31.8	38	17	64	23.8	23.8	38
1"	153	33.8	33.8	42	18	82	25.8	25.8	38
1-1/16	178	35.8	35.8	42	19	77	25.8	25.8	38
1-1/8	200	37.8	37.8	42	20	97	27.8	27.8	38
1-3/16	225	39.8	39.8	42	21	95	27.8	27.8	38
1-1/4	250	41.8	41.8	42	22	109	29.8	29.8	38
					23	130	29.8	29.8	38
					24	127	31.8	31.8	38
					25	156	33.8	33.8	42
					26	150	33.8	33.8	42
					27	178	35.8	35.8	42
					30	225	39.8	29.8	42
					32	245	41.8	41.8	42

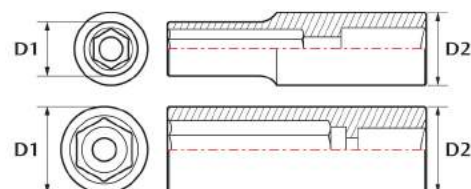


1/2" DRIVE A.N.S.I. DEEP SOCKET

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Single Groove / Knurling (Typing)

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
3/8	96	14.7	21.8	77	8	96	12.0	21.8	77
7/16	101	16.9	21.8	77	9	96	13.4	21.8	77
1/2	110	18.9	21.8	77	10	96	15.4	21.8	77
9/16	112	20.7	21.8	77	11	100	16.6	21.8	77
5/8	106	21.8	21.8	77	12	104	17.9	21.8	77
11/16	133	23.8	23.8	77	13	110	19.1	21.8	77
3/4	158	25.8	25.8	77	14	111	20.4	21.8	77
13/16	185	27.8	27.8	77	15	113	21.8	21.8	77
7/8	219	29.8	29.8	77	16	106	21.8	21.8	77
15/16	247	31.8	31.8	77	17	135	23.8	23.8	77
1"	280	33.8	33.8	77	18	166	25.8	25.8	77
1-1/16	352	35.8	35.8	77	19	158	25.8	25.8	77
1-1/8	365	37.8	37.8	77	20	177	27.8	27.8	77
1-3/16	412	39.8	39.8	77	21	178	27.8	27.8	77
1-1/4	454	41.8	41.8	77	22	222	29.8	29.8	77
					23	258	29.8	29.8	77
					24	245	31.8	31.8	77
					27	352	35.8	35.8	77
					30	412	39.8	39.8	77
					32	454	41.8	41.8	77

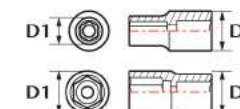


6.35mm DRIVE DIN SOCKET

MEETS OR EXCEEDS
DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Knurling

Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
4	10	6.8	11.8	25	9	13	12.8	12.0	25
4.5	10	7.4	11.8	25	10	13	13.8	12.0	25
5	11	8.0	11.8	25	11	19	15.8	14.0	25
5.5	11	8.7	11.8	25	12	22	16.8	15.0	25
6	11	9.2	11.8	25	13	24	17.8	16.0	25
6.5	11	-	11.8	25	14	31	19.8	18.0	25
7	11	10.6	11.8	25					
8	11	11.8	11.3	25					

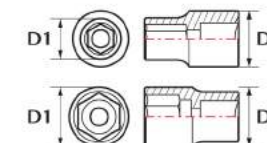


9.5mm DRIVE DIN SOCKET

MEETS OR EXCEEDS
DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Knurling

Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
6	22	10.1	16.8	28	16	40	21.8	19.0	28
7	22	10.6	16.8	28	17	46	23.7	19.9	30
8	22	11.9	16.8	28	18	50	25.8	21.0	30
9	22	13.2	16.8	28	19	56	25.8	22.9	30
10	22	14.3	16.8	28	20	64	27.2	25.0	30
11	22	15.6	16.8	28	21	64	27.8	25.0	30
12	20	16.8	15.8	28	22	72	29.8	25.9	30
13	22	17.8	16.3	28	23	76	31.2	28.0	30
14	26	19.7	16.8	28	24	92	31.8	28.0	30
15	32	21.8	18.0	28					

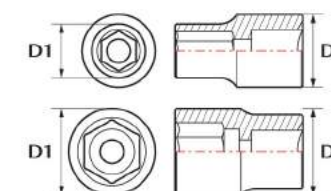


12.7mm DRIVE DIN SOCKET

MEETS OR EXCEEDS
DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin / Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Knurling

Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
8	46	13.1	21.8	38	20	63	27.7	23.9	38
9	46	13.9	21.8	38	21	64	27.8	25.0	38
10	46	15.0	21.8	38	22	90	29.8	26.0	38
11	48	16.2	21.8	38	23	80	31.1	27.0	38
12	48	17.6	21.8	38	24	102	31.8	28.0	38
13	50	18.8	21.8	38	25	-	33.3	30.0	42
14	52	20.3	21.8	38	26	130	33.8	30.0	42
15	50	21.8	20.7	38	27	134	35.8	30.0	43
16	46	21.7	20.7	38	29	-	37.8	32.0	43
17	56	23.8	22.0	38	30	182	39.8	34.0	46
18	68	24.5	23.0	38	32	198	41.8	36.0	46
19	62	25.8	23.0	38	36	352	49.8	44.0	48



DIN SOCKET

STAR SOCKET

6.35mm DRIVE
DIN DEEP SOCKET

MEETS OR EXCEEDS
DIN STANDARDS 6 POINT 12 POINT 2DSKG

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | 6 Point / 12 Point Socket
None / Knurling

Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
4	-	6.8	11.8	50
4.5	-	7.4	11.8	50
5	-	8.0	11.8	50
5.5	-	8.6	11.8	50
6	20	9.2	11.8	50
7	20	10.6	11.8	50
8	22	11.8	11.3	50
9	28	12.8	12.0	50

9.5mm DRIVE
DIN DEEP SOCKET

MEETS OR EXCEEDS
DIN STANDARDS 6 POINT 12 POINT SPLINE 3DSKG

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Knurling

Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
8	-	11.9	16.8	63
9	-	13.2	16.8	63
10	46	14.3	16.8	63
11	-	15.6	16.8	63
12	52	16.8	15.8	63
13	64	17.8	16.3	63
14	70	19.7	16.8	63
15	-	21.8	18.0	63

12.7mm DRIVE
DIN DEEP SOCKET

MEETS OR EXCEEDS
DIN STANDARDS 6 POINT 12 POINT SPLINE 4DSKG

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | 6 Point / 12 Point / Spline Socket
None / Knurling

Size (mm)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
10	92	15.0	21.8	77
11	-	16.2	21.8	77
12	98	17.6	21.8	77
13	102	18.8	21.8	77
14	106	20.3	21.8	77
15	-	21.8	20.7	77
16	92	21.7	20.7	77
17	120	23.8	22.0	77
18	-	24.5	23.0	77
19	132	25.8	23.0	77

1/4" DRIVE STAR SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN STANDARDS STAR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | Star Socket
None / Single Groove / Knurling

Size (star)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
E4	10	6.1	11.8	25
E5	10	6.9	11.8	25
E6	10	8.0	11.8	25
E7	11	8.8	11.8	25
E8	12	10.0	11.8	25
E10	18	12.0	13.8	25

3/8" DRIVE STAR SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN STANDARDS STAR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | Star Socket
None / Single Groove / Knurling

Size (star)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
E4	22	6.5	16.8	28
E5	22	7.5	16.8	28
E6	22	9.0	16.8	28
E7	22	9.0	16.8	28
E8	22	10.0	16.8	28
E10	24	12.0	16.8	28
E11	24	13.0	16.8	28
E12	24	14.5	16.8	28
E14	30	18.0	16.0	28
E16	38	20.0	18.0	28
E18	50	22.0	20.0	28
E20	64	24.0	22.0	30

1/2" DRIVE STAR SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN STANDARDS STAR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | Star Socket
None / Single Groove / Knurling

Size (star)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
E8	-	11.0	21.8	38
E10	46	13.2	21.8	38
E11	52	13.7	21.8	38
E12	52	15.0	21.8	38
E14	54	16.5	21.8	38
E16	56	18.7	21.8	38
E18	60	20.5	21.8	38
E20	72	23.8	22.0	38
E22	-	25.8	23.0	38
E24	-	27.8	25.0	38

1/4" DRIVE DEEP STAR SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN STANDARDS STAR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | Star Socket
None / Single Groove / Knurling

Size (star)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
E4	22	6.1	11.8	50
E5	22	6.9	11.8	50
E6	22	8.0	11.8	50
E7	22	8.8	11.8	50
E8	28	10.0	11.8	50
E10	34	12.0	13.8	50

3/8" DRIVE DEEP STAR SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN STANDARDS STAR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | Star Socket
None / Single Groove / Knurling

Size (star)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
E4	-	6.5	16.8	63
E5	-	7.5	16.8	63
E6	-	9.0	16.8	63
E7	-	9.0	16.8	63
E8	-	10.0	16.8	63
E10	-	12.0	16.8	63
E11	-	13.0	16.8	63
E12	-	14.5	16.8	63
E14	-	18.0	16.0	63
E16	-	20.0	18.0	63
E18	-	22.0	20.0	63
E20	-	24.0	22.0	63

1/2" DRIVE DEEP STAR SOCKET

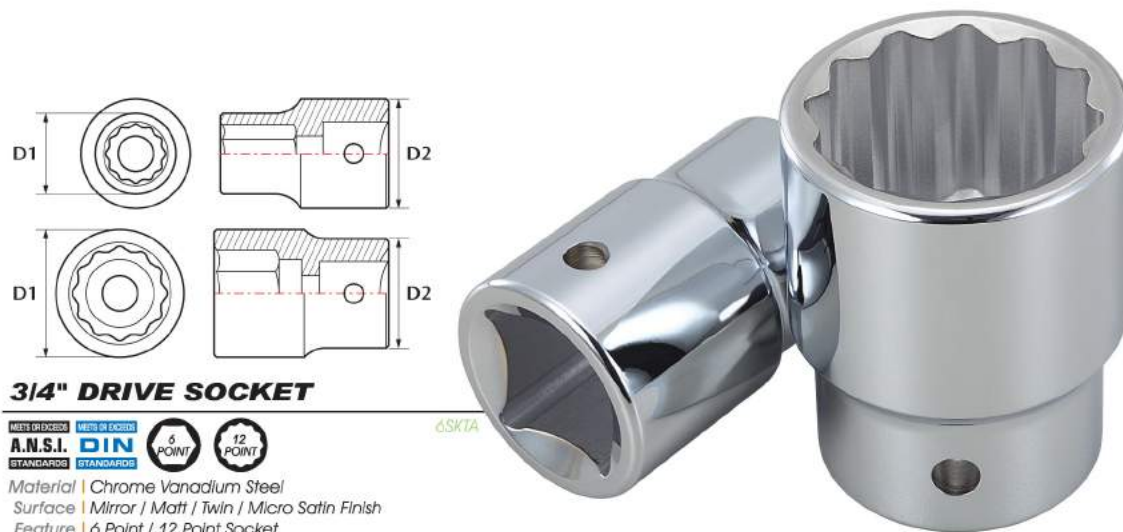
MEETS OR EXCEEDS
A.N.S.I. DIN STANDARDS STAR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | Star Socket
None / Single Groove / Knurling

Size (star)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
E8	-	11.0	21.8	77
E10	-	13.2	21.8	77
E11	-	13.7	21.8	77
E12	-	15.0	21.8	77
E14	-	16.5	21.8	77
E16	-	18.7	21.8	77
E18	-	20.5	21.8	77
E20	-	23.8	22.0	77
E22	-	25.8	23.0	77
E24	-	27.8	25.0	77

3/4" DRIVE SOCKET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents sockets from corrosion.
- Superior life-time test.



3/4" DRIVE SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

6 POINT 12 POINT

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | 6 Point / 12 Point Socket
None Groove / None Knurling

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
3/4	160	39.2	33.0	50
13/16	180	31.2	33.0	50
7/8	210	32.2	36.0	50
15/16	220	34.2	36.0	51
1"	220	37.0	36.0	52
1-1/16	220	38.0	36.0	52
1-1/8	240	40.0	38.0	52
1-3/16	260	42.0	38.0	54
1-1/4	290	44.0	38.0	56
1-5/16	320	46.0	38.0	56
1-3/8	370	48.0	42.0	58
1-7/16	400	50.0	42.0	58
1-1/2	470	52.0	45.0	60
1-9/16	510	54.0	45.0	62
1-5/8	540	56.0	45.0	64
1-11/16	580	58.0	45.0	65
1-3/4	620	60.0	47.0	66
1-13/16	650	62.0	47.0	68
1-7/8	740	64.0	48.0	70
1-15/16	770	66.0	48.0	70
2"	800	68.0	48.0	72
2-1/16	820	70.0	48.0	72
2-1/8	850	72.0	48.0	74
2-3/16	900	74.0	48.0	76
2-1/4	950	76.0	48.0	76
2-5/16	1000	78.0	48.0	78
2-3/8	1050	80.0	48.0	78
2-7/16	1150	82.0	50.0	80
2-1/2	1200	84.0	50.0	82

1" DRIVE SOCKET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents sockets from corrosion.
- Superior life-time test.

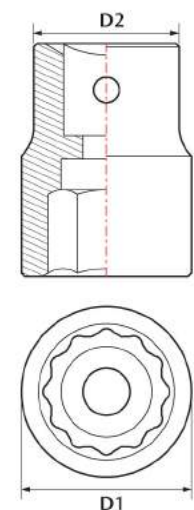
1" DRIVE SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

6 POINT 12 POINT

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | 6 Point / 12 Point Socket
None Groove / None Knurling

Size (inch)	Wt. (g)	D1 (mm)	D2 (mm)	L (mm)
1-3/8	430	48.0	45.0	61
1-7/16	450	51.0	45.0	65
1-1/2	500	54.0	45.0	65
1-5/8	550	57.0	45.0	70
1-11/16	690	60.0	50.0	70
1-3/4	780	63.0	50.0	75
1-13/16	870	65.0	50.0	75
1-7/8	980	67.0	57.0	75
2"	1000	70.0	57.0	75
2-1/16	1110	72.0	57.0	80
2-1/8	1170	74.0	57.0	80
2-3/16	1220	76.0	57.0	80
2-1/4	1280	78.0	57.0	80
2-5/16	1340	80.0	57.0	80
2-3/8	1450	82.0	57.0	84
2-7/16	1480	84.0	57.0	87
2-1/2	1580	86.0	57.0	87
2-9/16	1690	88.0	57.0	90
2-5/8	1720	90.0	57.0	90
2-11/16	1950	92.0	68.0	93
2-3/4	2000	94.0	68.0	93
2-13/16	2100	97.0	68.0	93
2-7/8	2210	99.0	68.0	97
2-15/16	2330	100.0	68.0	97
3"	2640	102.0	68.0	103
3-1/8	2700	105.0	68.0	103



32x SAE/Metric 3/4" Dr 12PT Socket Set

Metal Case + EVA Label

Content 15x 3/4" Dr SAE Sockets: (12PT)

3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16",
1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", 1-5/8", 1-7/8"

12x 3/4" Dr Metric Sockets: (12PT)

19, 22, 24, 27, 30, 32, 36, 38, 41, 46, 50, 55mm

1x 3/4" Dr 24T Ratchet Handle

1x 3/4" Dr 480mm Flexible Handle

1x 3/4" Dr Universal Joint

2x 3/4" Dr Extension Bars: 200, 400mm

18x Metric 3/4" Dr 12PT Socket Set

Metal Case + EVA Label

Content 12x 3/4" Dr Metric Sockets: (12PT)

22, 24, 27, 30, 32, 34, 36, 38, 41, 46, 50, 55mm

1x 3/4" Dr 24T Ratchet Head

1x 3/4" Dr Universal Flexible Head

1x 450-750mm Interchangeable Extension Handle

1x 3/4" Dr Universal Joint

2x 3/4" Dr Extension Bars: 200, 400mm

14x Metric 1" Dr 12PT Socket Set

Metal Case + EVA Label

Content 8x 1" Dr Metric Sockets: (12PT)

46, 50, 55, 60, 65, 70, 75, 80mm

1x 1" Dr 24T Ratchet Head

1x 1" Dr Universal Flexible Head

1x 450-750mm Interchangeable Extension Handle

1x 1" Dr Universal Joint

2x 1" Dr Extension Bars: 200, 400mm



SOCKET SET

BIT SOCKET



10x 1/4" Dr Metric Socket Set

Metal Rail + Single Blister + Cardboard

10x MM 4, 5, 6, 7, 8, 9, 10, 11, 12m 13mm

9x 1/4" Dr SAE Socket Set

Metal Rail + Single Blister + Cardboard

9x SAE 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"

10x 3/8" Dr Metric Socket Set

Metal Rail + Single Blister + Cardboard

10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

8x 3/8" Dr SAE Socket Set

Metal Rail + Single Blister + Cardboard

8x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

12x 3/8" Dr Star Socket Set

Metal Rail + Single Blister + Cardboard

12x Star E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18, E20

12x 1/2" Dr Metric Socket Set

Metal Rail + Single Blister + Cardboard

12x MM 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24mm

11x 1/2" Dr SAE Socket Set

Metal Rail + Single Blister + Cardboard

11x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

10x 1/4" Dr Metric Deep Socket Set

Metal Rail + Single Blister + Cardboard

10x MM 4, 5, 6, 7, 8, 9, 10, 11, 12m 13mm

9x 1/4" Dr SAE Deep Socket Set

Metal Rail + Single Blister + Cardboard

9x SAE 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"

10x 3/8" Dr Metric Deep Socket Set

Metal Rail + Single Blister + Cardboard

10x MM 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

8x 3/8" Dr SAE Deep Socket Set

Metal Rail + Single Blister + Cardboard

8x SAE 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

12x 3/8" Dr Star Deep Socket Set

Metal Rail + Single Blister + Cardboard

12x Star E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18, E20

12x 1/2" Dr Metric Deep Socket Set

Metal Rail + Single Blister + Cardboard

12x MM 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24mm

11x 1/2" Dr SAE Deep Socket Set

Metal Rail + Single Blister + Cardboard

11x SAE 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

Note

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents sockets from corrosion.
- Superior life-time test.

1/4" DRIVE HEX BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (inch)	Wt. (g)	L (mm)
H1/8	16	37
H5/32	16	37
H3/16	17	37
H7/32	17	37
H1/4	18	37

3/8" DRIVE HEX BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (inch)	Wt. (g)	L (mm)
H3/16	33	48
H7/32	34	48
H1/4	34	48
H5/16	39	48
H3/8	46	48

9.5mm DRIVE DIN HEX BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Knurling

Size (mm)	Wt. (g)	L (mm)
H2.5	-	44
H3	32	44
H4	34	47
H5	35	50
H6	36	52
H8	43	55
H10	55	55
H12	55	55

6.35mm DRIVE DIN HEX BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Knurling

Size (mm)	Wt. (g)	L (mm)
H2	-	36
H2.5	-	36
H3	13	36
H4	13	40
H5	14	44
H6	15	48
H8	17	52



BIT SOCKET

BIT SOCKET

1/2" DRIVE HEX BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (inch)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
H3/16	70	55	H4	70	55	H7	100	100
H7/32	70	55	H5	70	55	H8	-	100
H1/4	70	55	H6	70	55	H10	104	100
H9/32	72	55	H7	72	55	H8	130	140
H5/16	72	55	H8	74	55	H10	134	140
H3/8	76	55	H9	76	55	H12	164	140
H1/2	108	55	H10	76	55	H13	-	140
H9/16	112	55	H12	88	55	H14	224	140
H5/8	148	55	H13	110	55	H15	244	140
			H14	110	55	H17	312	140
			H15	116	55			
			H17	150	55			

12.7mm DRIVE DIN HEX BIT SOCKET

MEETS OR EXCEEDS
DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Knurling

Size (mm)	Wt. (g)	L (mm)
H3	45	55
H4	45	55
H5	66	55
H6	70	57
H8	75	59
H10	80	59
H12	98	68
H14	138	69
H17	165	72
H19	-	72
H22	-	72

3/8" DRIVE SPLINE BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (mm)	Wt. (g)	L (mm)
M4	32	48
M5	34	48
M6	34	48
M8	38	48

1/2" DRIVE SPLINE BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (mm)	Wt. (g)	L (mm)
M6	66	55
M8	68	55
M10	70	55
M12	80	55
M14	106	55
M16	138	55
M8	102	100
M10	104	100
M12	126	100

1/4" DRIVE STAR BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
T8	12	37
T10	12	37
T15	12	37
T20	14	37
T25	14	37
T27	14	37
T30	14	37
T40	15	37

3/8" DRIVE STAR BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
T15	33	48
T20	33	48
T25	33	48
T27	33	48
T30	33	48
T40	34	48
T45	37	48
T50	38	48
T55	46	48

1/2" DRIVE STAR BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
T20	66	55
T25	66	55
T27	66	55
T30	66	55
T40	68	55
T45	68	55
T50	70	55
T55	72	55
T60	82	55

1/4" DRIVE TAMPER STAR BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
TT10	12	37
TT15	12	37
TT20	14	37
TT25	14	37

3/8" DRIVE TAMPER STAR BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
TT27	33	48
TT30	33	48
TT40	34	48
TT45	37	48
TT50	38	48
TT55	46	48

BIT SOCKET

BIT SOCKET

1/4" DRIVE 5 POINT TAMPER STAR BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
TS10	14	37
TS15	14	37
TS20	14	37
TS25	14	37



3/8" DRIVE 5 POINT TAMPER STAR BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (star)	Wt. (g)	L (mm)
TS27	-	48
TS30	-	48
TS40	-	48
TS45	-	48
TS50	40	48
TS55	46	48



1/2" DRIVE RIBE BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (mm)	Wt. (g)	L (mm)
R18	68	55
R19	70	55
R110	70	55
R111	78	55
R112	80	55
R113	106	55
R114	106	55



1/4" DRIVE SLOTTED BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (mm)	Wt. (g)	L (mm)
SL3	12	37
SL4	12	37
SL4.5	14	37
SL5.5	14	37
SL6.5	15	37
SL7	15	37



3/8" DRIVE SLOTTED BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (mm)	Wt. (g)	L (mm)
SL5.5	34	48
SL6.5	35	48
SL8	36	48
SL10	48	48



1/2" DRIVE SLOTTED BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size (mm)	Wt. (g)	L (mm)
SL8	75	55
SL10	85	55
SL12	95	55



1/4" DRIVE PHILLIPS BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size	Wt. (g)	L (mm)
PH0	16	37
PH1	16	37
PH2	16	37
PH3	18	37



3/8" DRIVE PHILLIPS BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size	Wt. (g)	L (mm)
PZ1	33	48
PZ2	33	48
PZ3	34	48



1/4" DRIVE POZI BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size	Wt. (g)	L (mm)
PZ0	16	37
PZ1	16	37
PZ2	16	37
PZ3	18	37



3/8" DRIVE POZI BIT SOCKET



Material | S2 Steel Bit
Chrome Vanadium Steel Socket
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | None / Single Groove / Knurling

Size	Wt. (g)	L (mm)
PZ1	33	48
PZ2	33	48
PZ3	34	48



22x 1/2" Dr Professional Insert Bit Socket Set

Blow Mould Case + Color Sleeve + POF

Content | 6x 1/2" Dr Metric Hex Bit Sockets: H5, H6, H7, H8, H10, H12
6x 1/2" Dr Star Bit Sockets: T40, T45, T50, T55, T60, T70
6x 1/2" Dr Ribe Bit Sockets: M8, M9, M10, M12, M13, M14
4x 1/2" Dr Spine Bit Sockets: M8, M10, M12, M14

11x 1/4" & 3/8" Dr Star Bit Socket Set

Metal Rail + Single Blister + Cardboard

Content | 4x 1/4" Dr Star Bit Sockets: T10, T15, T20, T25
6x 3/8" Dr Star Bit Sockets: T27, T30, T40, T45, T50, T55
1x 3/8x1/4M Adapter

10x 3/8" Dr SAE/Metric Hex Bit Socket Set

Metal Rail + Single Blister + Cardboard

Content | 5x SAE: H3/16", H7/32", H1/4", H5/16", H3/8"
5x Metric: H6, H7, H8, H9, H10

9x 1/4" Dr SAE/Metric Hex Bit Socket Set

Metal Rail + Single Blister + Cardboard

Content | 5x SAE: H1/8", H5/32", H3/16", H7/32", H1/4"
4x Metric: H3, H4, H5, H6

10x 1/4" & 3/8" Dr SAE Hex Bit Socket Set

Metal Rail + Single Blister + Cardboard

10x SAE | 5x 1/4" Dr Hex Bit Sockets: H1/8", H5/32", H3/16", H7/32", H1/4"
5x 3/8" Dr Hex Bit Sockets: H3/16", H7/32", H1/4", H5/16", H3/8"

9x 1/4" & 3/8" Dr Metric Hex Bit Socket Set

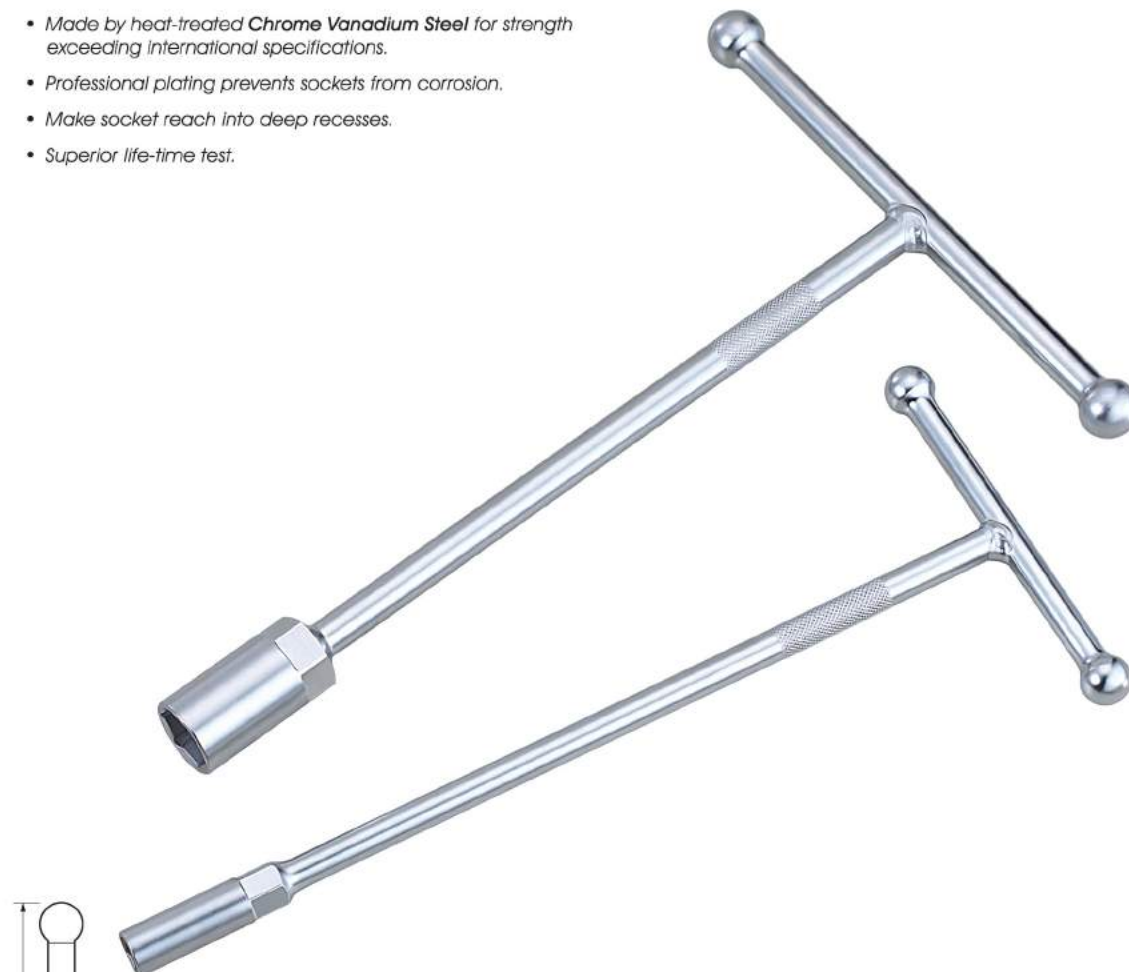
Metal Rail + Single Blister + Cardboard

9x MM | 4x 1/4" Dr Hex Bit Sockets: H3, H4, H5, H6
5x 3/8" Dr Hex Bit Sockets: H6, H7, H8, H9, H10



T-HANDLE SOCKET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents sockets from corrosion.
- Make socket reach into deep recesses.
- Superior life-time test.



T-HANDLE SOCKET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin /
Color Electro-deposition Finish
Feature | 6 Point Socket

Size (mm)	Wt. (g)	W (mm)	L (mm)
8	266	130	300
9	268	130	300
10	278	130	300
11	282	130	300
12	320	200	300
13	332	200	300
14	346	200	300
17	498	200	300
19	512	200	300



9x Metric T-handle Socket Set

PS Tray + PVC Cap + Color Box

9x MM 8, 9, 10, 11, 12, 13, 14, 17, 19mm

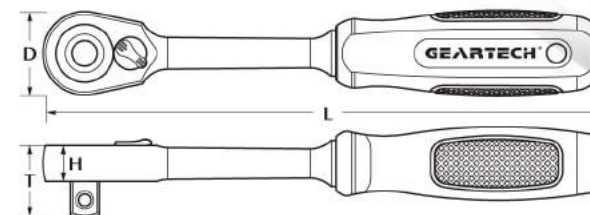


Ratchet head allows ratchet handle to travel without removing from fastener.

Reversible switch enables ratchet to move from either direction.

Socket quick release system for easy socket changes.

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **90 teeth** needs 4° space requirement for each turn.
- **Reversible switch** enables ratchet to move from either direction.
- **Socket quick release system** for easy socket changes.
- Small head profile.
- Superior life-time test.



90 TEETH MINI HEAD RATCHET HANDLE

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin /
Color Electro-deposition Finish
Feature | 90 Teeth
TPV & PP Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	112	24.0	18.7	10.5	150
3/8 (9.5mm)	222	28.5	23.5	12.5	195
1/2 (12.7mm)	436	36.2	30.0	15.0	250



4° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.

MINI HEAD RATCHET HANDLE

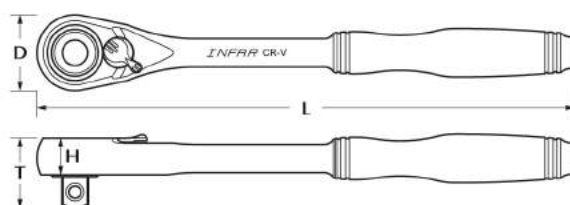


Ratchet head allows ratchet handle to travel without removing from fastener.

Reversible switch enables ratchet to move from either direction.

Socket quick release system for easy socket changes.

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **72 teeth** needs 5° space requirement for each turn.
- **Reversible switch** enables ratchet to move from either direction.
- **Socket quick release system** for easy socket changes.
- Small head profile.
- Superior life-time test.

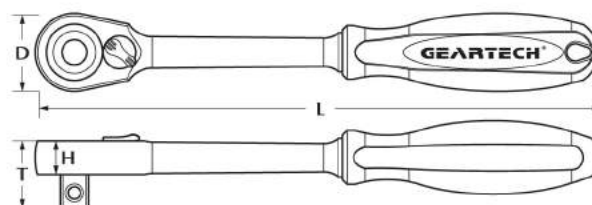


MINI HEAD RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	140	22.3	21.0	11.0	145
3/8 (9.5mm)	247	26.8	26.5	13.0	190
1/2 (12.7mm)	487	32.5	33.0	15.0	240



MINI HEAD RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
TPV & PP Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	107	22.3	21.0	10.5	150
3/8 (9.5mm)	209	26.8	26.5	12.5	195
1/2 (12.7mm)	412	34.5	33.0	15.0	250

MINI HEAD RATCHET HANDLE

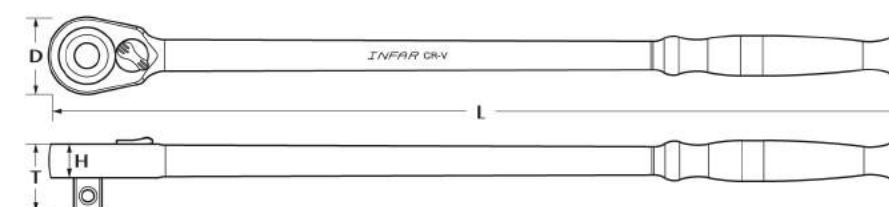


Ratchet head allows ratchet handle to travel without removing from fastener.

Reversible switch enables ratchet to move from either direction.

Socket quick release system for easy socket changes.

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **72 teeth** needs 5° space requirement for each turn.
- **Reversible switch** enables ratchet to move from either direction.
- **Socket quick release system** for easy socket changes.
- Small head profile.
- Superior life-time test.

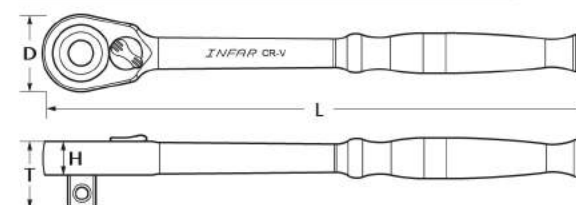


MINI HEAD RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	121	22.3	21.0	10.5	145
3/8 (9.5mm)	217	26.8	26.5	12.5	190
1/2 (12.7mm)	423	34.5	33.0	15.0	245



MINI HEAD EXTRA LONG RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
3/8 (9.5mm)	287	26.8	26.5	12.5	280
1/2 (12.7mm)	598	34.5	33.0	15.0	384



5° space requirement for each turn.

Reversible switch enables ratchet handle to move from either direction.

MINI HEAD RATCHET HANDLE



Ratchet head allows ratchet handle to travel without removing from fastener.

Reversible switch enables ratchet to move from either direction.

Socket quick release system for easy socket changes.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- 72 teeth needs 5° space requirement for each turn.
- Reversible switch enables ratchet to move from either direction.
- Socket quick release system for easy socket changes.
- Small head profile.
- Superior life-time test.



5° space requirement for each turn.



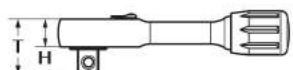
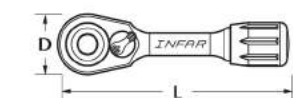
Reversible switch enables ratchet handle to move from either direction.

MINI HEAD STUBBY RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	85	22.3	21.0	10.5	94
3/8 (9.5mm)	128	26.8	26.5	12.5	100



MINI HEAD STUBBY RATCHET HANDLE WITH CAP

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
ABS Cap

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	-	22.3	21.0	10.5	95
3/8 (9.5mm)	-	26.8	26.5	12.5	103



Work with extension bar to reach deeper space.

FLEXIBLE HEAD RATCHET HANDLE



Flexible head tilts 180° at any interval with continuous head tension.

Ratchet head allows ratchet handle to travel without removing from fastener.

Reversible switch enables ratchet to move from either direction.

Socket quick release system for easy socket changes.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- 72 teeth needs 5° space requirement for each turn.
- Reversible switch enables ratchet to move from either direction.
- Socket quick release system for easy socket changes.
- Flexible head tilts 180° at any interval with continuous head tension.
- Superior life-time test.



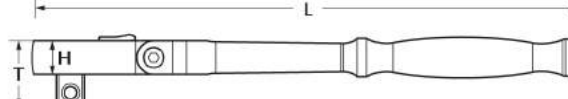
Flexible head tilts 180° at any interval with continuous head tension.



5° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.



FLEXIBLE HEAD RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
180° Flexible Ratchet Head
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	126	22.3	21.0	10.5	145
3/8 (9.5mm)	234	26.8	26.5	12.5	190
1/2 (12.7mm)	458	34.5	33.0	15.0	245

FLEXIBLE HEAD STUBBY RATCHET HANDLE

MEETS OR EXCEEDS A.N.S.I. DIN STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
180° Flexible Ratchet Head
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	95	22.3	21.0	10.5	94
3/8 (9.5mm)	154	26.8	26.5	12.5	100

RATCHET HANDLE WITH COUPLER

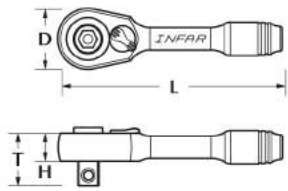
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **72 teeth** needs 5° space requirement for each turn.
- **Reversible switch** enables ratchet to move from either direction.
- Work with 1/4" drive sockets and 1/4" hex bits.
- Small head profile.
- Superior life-time test.



5° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.



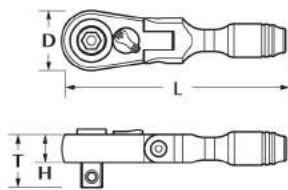
MINI HEAD STUBBY RATCHET HANDLE WITH COUPLER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
Metal Handle

Drive (inch)	Hex (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	87	22.3	21.0	10.5	94

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **72 teeth** needs 5° space requirement for each turn.
- **Reversible switch** enables ratchet to move from either direction.
- **Flexible head** tilts 180° at any interval with continuous head tension.
- Work with 1/4" drive sockets and 1/4" hex bits.
- Superior life-time test.



FLEXIBLE HEAD STUBBY RATCHET HANDLE WITH COUPLER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
180° Flexible Ratchet Head
Metal Handle

Drive (inch)	Hex (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	96	22.3	21.0	10.5	94



5° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.

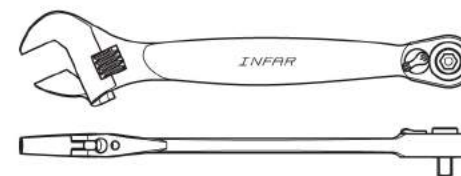


Flexible head tilts 180° at any interval with continuous head tension.

NEW INNOVATION RATCHET ADJUSTABLE WRENCH & RATCHET COMBINATION



- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **72 teeth** needs 5° space requirement for each turn.
- **Reversible switch** enables ratchet to move from either direction.
- Work with 1/4" drive sockets and 1/4" hex bits.
- Small head profile.
- Superior life-time test.



ADJUSTABLE WRENCH & RATCHET COMBINATION

Material | Chrome Vanadium Steel
Surface | Matt Finish
Feature | 72 Teeth
Adjustable Open End

Drive (inch)	Hex (inch)	Size (mm)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	19.2	198	203



Reversible switch enables ratchet handle to move from either direction.



5° space requirement for each turn.

ROTATABLE HEAD RATCHET HANDLE

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- **72 teeth** needs 5° space requirement for each turn.
- **Socket quick release system** for easy socket changes.
- **Rotatable head** tilts more than 180° at any interval with continuous head tension.
- Superior life-time test.



Rotatable Head tilts more than 180° at any interval with continuous head tension.

ROTATABLE HEAD RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	142	31.0	25.4	11.0	143
3/8 (9.5mm)	412	43.0	35.5	15.0	225
1/2 (12.7mm)	680	49.0	41.0	17.0	288

ROTATABLE HEAD RATCHET HANDLE

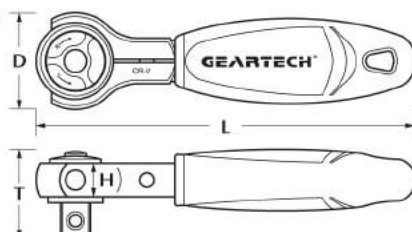
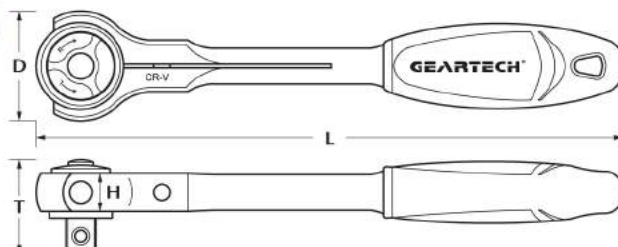
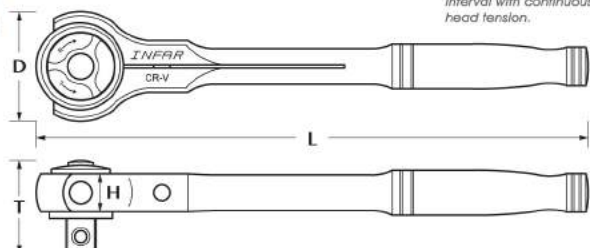
Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
TPR & PP Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	138	31.0	25.4	11.0	150
3/8 (9.5mm)	382	43.0	35.5	15.0	234
1/2 (12.7mm)	666	49.0	41.0	17.0	308

ROTATABLE HEAD STUBBY RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 72 Teeth
TPR & PP Handle

Drive (inch)	Wt. (g)	D (mm)	T (mm)	H (mm)	L (mm)
1/4 (6.35mm)	112	32.0	25.4	11.0	112
3/8 (9.5mm)	268	44.0	35.5	15.0	145
1/2 (12.7mm)	366	44.0	39.5	15.0	170



5° space requirement for each turn.

RATCHET HANDLE

REGULAR STYLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 45 / 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	140	139
3/8 (9.5mm)	300	200
1/2 (12.7mm)	567	250

REGULAR STYLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 45 / 72 Teeth
TPR & PP Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	126	145
3/8 (9.5mm)	295	205
1/2 (12.7mm)	582	255
1/2 (12.7mm)	1016	500

REDUCED STYLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 45 / 72 Teeth
TPR & PP Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	135	154
3/8 (9.5mm)	300	205
1/2 (12.7mm)	580	258

REDUCED STYLE RATCHET HANDLE

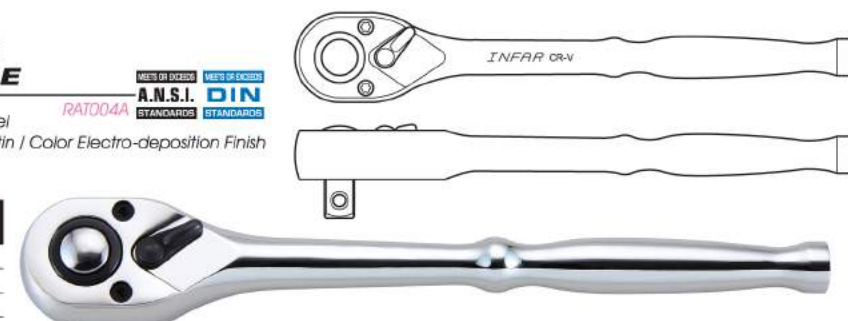
Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 45 / 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	137	144
3/8 (9.5mm)	317	201
1/2 (12.7mm)	581	251

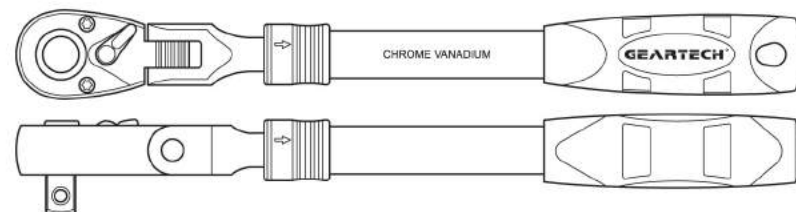
STUBBY RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 45 / 72 Teeth
Metal Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	106	95
3/8 (9.5mm)	212	115
1/2 (12.7mm)	406	138



EXTENDABLE RATCHET HANDLE



FLEXIBLE HEAD EXTENDABLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 72 Teeth
11 Positions on Flexible Head
TPR & PP Handle

Drive (inch)	Wt. (g)	Min L (mm)	Locking Position	Max L (mm)
1/4 (6.35mm)	206	175	3	225
3/8 (9.5mm)	506	249	4	349
1/2 (12.7mm)	1048	352	6	492

FXRAT034BEX

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

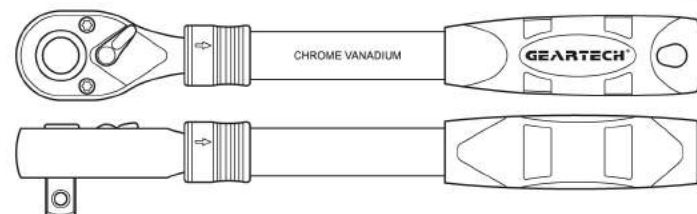
MEETS OR EXCEEDS
DIN STANDARDS



5° space requirement for each turn.



Flexible head tilts 180° at any interval with continuous head tension.



EXTENDABLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 72 Teeth
TPR & PP Handle

Drive (inch)	Wt. (g)	Min L (mm)	Locking Position	Max L (mm)
1/4 (6.35mm)	140	152	3	202
3/8 (9.5mm)	300	202	4	302
1/2 (12.7mm)	567	308	6	448

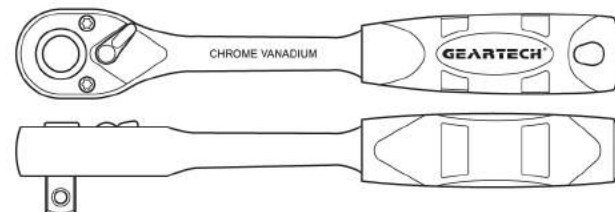
RAT034BEX

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

MEETS OR EXCEEDS
DIN STANDARDS



5° space requirement for each turn.



REGULAR STYLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 72 Teeth
TPR & PP Handle

Drive (inch)	Wt. (g)	Min L (mm)	Locking Position	Max L (mm)
1/4 (6.35mm)	-	150	5	200
3/8 (9.5mm)	408	255	6	370
1/2 (12.7mm)	703	290	7	430

RAT034B

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

MEETS OR EXCEEDS
DIN STANDARDS

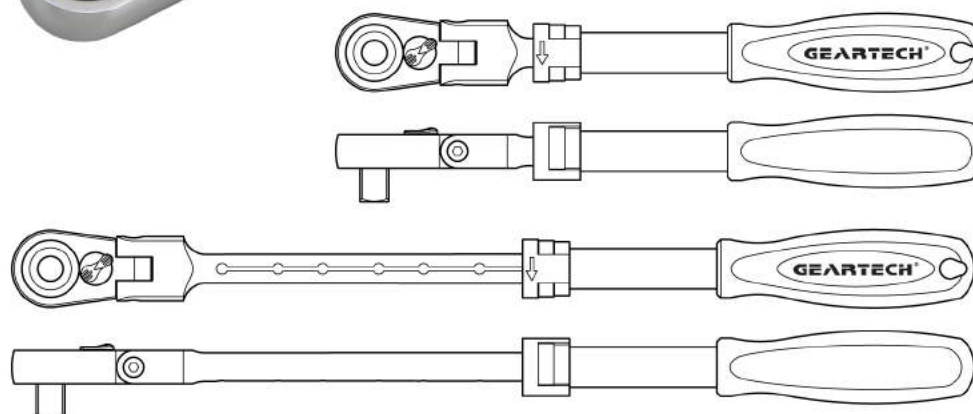


5° space requirement for each turn.



NEW INNOVATION RATCHET FLEXIBLE HEAD EXTENDABLE RATCHET HANDLE

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents ratchet handles from corrosion.
- 72 teeth needs 5° space requirement for each turn.
- Reversible switch enables ratchet to move from either direction.
- Socket quick release system for easy socket changes.
- Flexible head tilts 180° at any interval with continuous head tension.
- Extendable panel helps to reach deeper space.
- Superior life-time test.



FLEXIBLE HEAD EXTENDABLE RATCHET HANDLE

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 72 Teeth
TPV & PP Handle

Drive (inch)	Wt. (g)	Min L (mm)	Locking Position	Max L (mm)
1/4 (6.35mm)	-	150	5	200
3/8 (9.5mm)	408	255	6	370
1/2 (12.7mm)	703	290	7	430

FXRAT029BEX

MEETS OR EXCEEDS
A.N.S.I. STANDARDS

MEETS OR EXCEEDS
DIN STANDARDS



5° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.



Flexible head tilts 180° at any interval with continuous head tension.



RATCHET HEAD / UNIVERSAL FLEXIBLE HEAD

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- **Reversible switch** enables ratchet to move from either direction.
- **Socket quick release system** for easy socket changes.
- **24 teeth** needs 15° space requirement for each turn.
- Superior life-time test.



15° space requirement for each turn.



Reversible switch enables ratchet handle to move from either direction.

RATCHET HEAD

Material | Chrome Vanadium Steel
Surface | Black Oxide Finish
Feature | 24 Teeth
Suits Interchangeable Handle

Drive (inch)	Wt. (g)	L (mm)
3/4 (19.0mm)	1240	158
1" (25.4mm)	1720	195



3/4" DRIVE EXTENDABLE RATCHET HANDLE

Material | Chrome Vanadium Steel
Surface | Black Oxide Finish Ratchet Head
Mirror Finish Handle
Feature | 24 Teeth
Knurling Metal Handle

Drive (inch)	Wt. (g)	Min L (mm)	Max L (mm)
3/4 (19.0mm)	3762	610	910

6RAT002A



Flexible drive tilts 180° at any interval with continuous drive tension.

UNIVERSAL FLEXIBLE HEAD

Material | Chrome Vanadium Steel
Surface | Black Oxide Finish
Feature | 180° Flexible Drive
Suits Interchangeable Handle

Drive (inch)	Wt. (g)	L (mm)
3/4 (19.0mm)	1150	395
1" (25.4mm)	3070	635



450-750mm INTERCHANGEABLE EXTENDABLE HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror Finish
Feature | Suits 3/4" Dr Ratchet Head or Universal Flexible Head
Knurling Metal Handle

Drive (inch)	Wt. (g)	Min L (mm)	Max L (mm)
3/4 (19.0mm)	2522	500	814

INTERCHANGEABLE HANDLE

Material | Chrome Vanadium Steel
Surface | Mirror Finish
Feature | Suits Ratchet Head or Universal Flexible Head
Knurling Metal Handle

Drive (inch)	Wt. (g)	L (mm)
3/4 (19.0mm)	1150	395
1" (25.4mm)	3070	635



NEW INNOVATION RATCHET EXTENDABLE FLEXIBLE HANDLE

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- **Flexible drive** tilts 180° at any interval with continuous drive tension.
- **Extendable panel** helps to reach deeper space.
- Superior life-time test.



EXTENDABLE FLEXIBLE HANDLE

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

FHDBEX

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 180° Flexible Drive
TPV & PP Handle

Drive (inch)	Wt. (g)	Min L (mm)	Locking Position	Max L (mm)
1/4 (6.35mm)	-	128	5	178
3/8 (9.5mm)	338	230	6	345
1/2 (12.7mm)	562	260	7	400

FLEXIBLE HANDLE

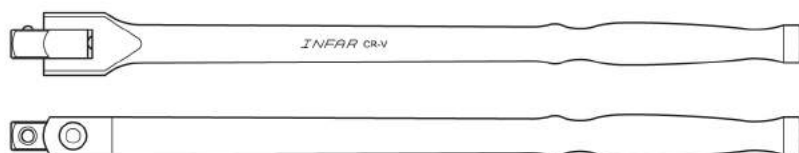
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- **Flexible drive** tilts 180° at any interval with continuous drive tension.
- Superior life-time test.

FLEXIBLE HANDLE

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Drive
Metal Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	113	147
3/8 (9.5mm)	273	215
3/8 (9.5mm)	-	247
3/8 (9.5mm)	484	380
1/2 (12.7mm)	-	305
1/2 (12.7mm)	703	380
1/2 (12.7mm)	996	505

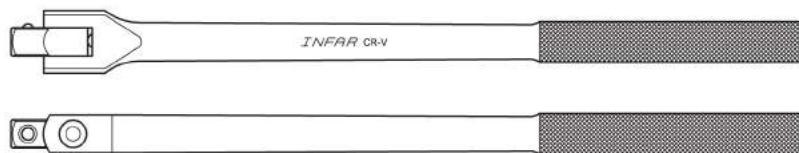


FLEXIBLE HANDLE

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Drive
Knurling Metal Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	-	147
3/8 (9.5mm)	-	215
3/8 (9.5mm)	-	247
1/2 (12.7mm)	-	305
1/2 (12.7mm)	-	380
3/4 (19.0mm)	1868	505

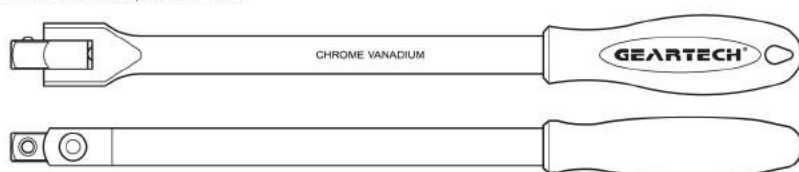


FLEXIBLE HANDLE

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish
Feature | 180° Flexible Drive
TPR & PP Handle

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	101	160
3/8 (9.5mm)	269	227
1/2 (12.7mm)	488	280
1/2 (12.7mm)	643	380



SLIDING T-BAR SYSTEM

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- Superior life-time test.

SLIDING WOBBLE EXTENSION T-BAR

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | None / Knurling
Wobble Drive

Drive (inch)	Wt. (g)	W (mm)	L (mm)
1/4 (6.35mm)	182	130	200
3/8 (9.5mm)	420	150	250

SLIDING T-BAR

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish

Drive (inch)	Wt. (g)	W (mm)	L (mm)
1/4 (6.35mm)	45	23.5	105
3/8 (9.5mm)	128	33.5	170
1/2 (12.7mm)	316	41.5	240
3/4 (19.0mm)	1380	60.0	450
3/4 (19.0mm)	1490	60.0	500
1" (25.4mm)	3340	-	550

SLIDING T-BAR

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish

Drive (inch)	Wt. (g)	W (mm)	L (mm)
1/4 (6.35mm)	-	23.5	113
3/8 (9.5mm)	-	33.0	200
1/2 (12.7mm)	-	41.5	252

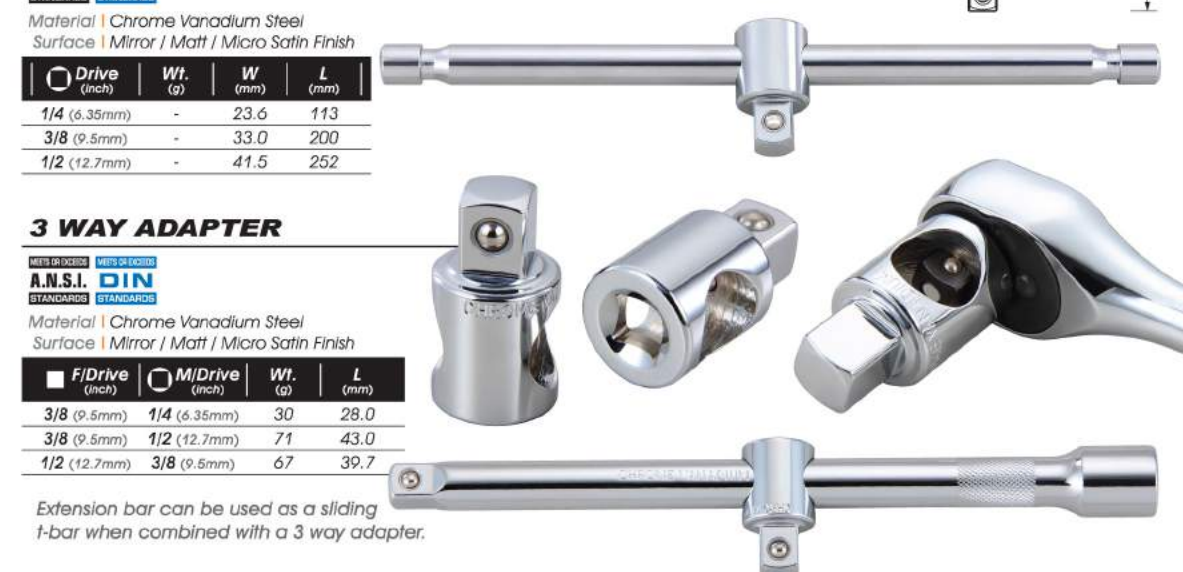
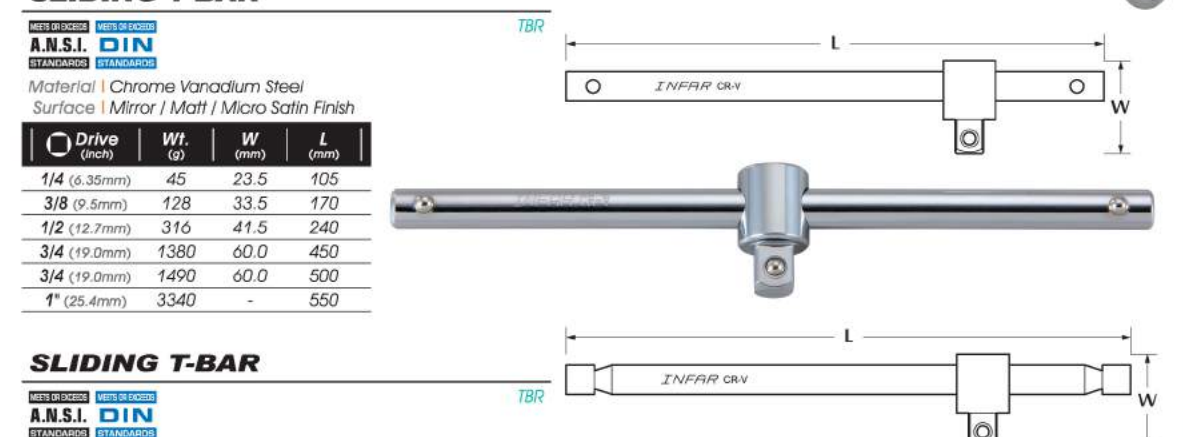
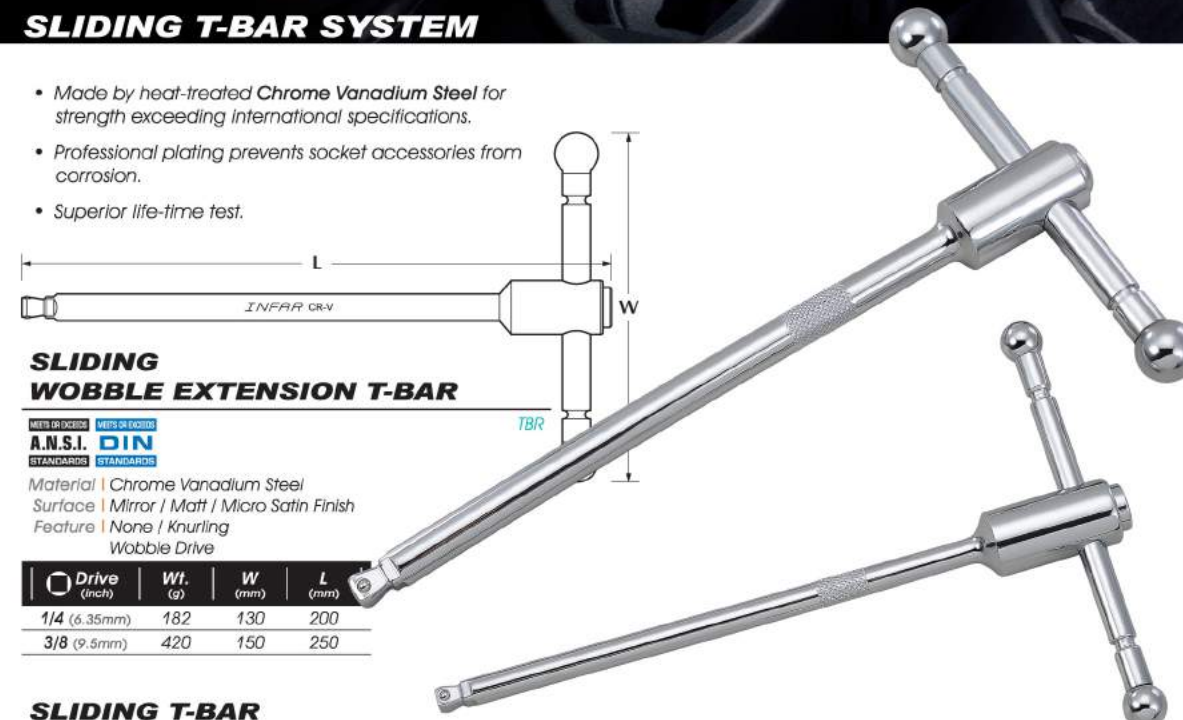
3 WAY ADAPTER

MEETS OR EXCEEDS **A.N.S.I.** **DIN** STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish

F/Drive (inch)	M/Drive (inch)	Wt. (g)	L (mm)
3/8 (9.5mm)	1/4 (6.35mm)	30	28.0
3/8 (9.5mm)	1/2 (12.7mm)	71	43.0
1/2 (12.7mm)	3/8 (9.5mm)	67	39.7

Extension bar can be used as a sliding t-bar when combined with a 3 way adapter.



EXTENSION BAR

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- Superior life-time test.

SNAKE EXTENSION BAR

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

FXBR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | None / Knurling

Drive (inch)	Wt. (g)	L (inch/mm)
1/4 (6.35mm)	60	6/150
3/8 (9.5mm)	104	8/200



EXTENSION BAR

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

EBR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | None / Knurling

Drive (inch)	Wt. (g)	L (inch/mm)
1/4 (6.35mm)	23	2/50
1/4 (6.35mm)	33	3/75
1/4 (6.35mm)	44	4/100
1/4 (6.35mm)	64	6/150
1/4 (6.35mm)	-	10/250
3/8 (9.5mm)	-	2/50
3/8 (9.5mm)	75	3/75
3/8 (9.5mm)	-	4/100
3/8 (9.5mm)	121	5/125
3/8 (9.5mm)	144	6/150
3/8 (9.5mm)	236	10/250
3/8 (9.5mm)	-	12/300
1/2 (12.7mm)	-	2/50
1/2 (12.7mm)	119	3/75
1/2 (12.7mm)	-	4/100
1/2 (12.7mm)	196	5/125
1/2 (12.7mm)	-	6/150
1/2 (12.7mm)	389	10/250
1/2 (12.7mm)	-	15/380
1/2 (12.7mm)	930	24/600
3/4 (19.0mm)	-	4/100
3/4 (19.0mm)	-	5/125
3/4 (19.0mm)	634	8/200
3/4 (19.0mm)	1154	16/400
1" (25.4mm)	1100	6/150
1" (25.4mm)	1350	8/200
1" (25.4mm)	2480	16/400



WOBBLE EXTENSION BAR

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

WBR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin /
Color Electro-deposition Finish
Feature | None / Knurling

Drive (inch)	Wt. (g)	L (inch/mm)
1/4 (6.35mm)	24	2/50
1/4 (6.35mm)	-	3/75
1/4 (6.35mm)	-	4/100
1/4 (6.35mm)	64	6/150
1/4 (6.35mm)	104	10/250
3/8 (9.5mm)	-	2/50
3/8 (9.5mm)	73	3/75
3/8 (9.5mm)	-	4/100
3/8 (9.5mm)	142	6/150
3/8 (9.5mm)	234	10/250
1/2 (12.7mm)	-	2/50
1/2 (12.7mm)	136	3/75
1/2 (12.7mm)	-	4/100
1/2 (12.7mm)	215	5/125
1/2 (12.7mm)	-	6/150
1/2 (12.7mm)	418	10/250
1/2 (12.7mm)	607	15/380



SOCKET ACCESSORY

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- Superior life-time test.

EXTRA LONG EXTENSION BAR WITH HANDLE

Material | Chrome Vanadium Steel
Surface | Matt Finish

Drive (inch)	Drive (inch)	Wt. (g)	L (mm)
3/8 (9.5mm)	1/2 (12.7mm)	-	760



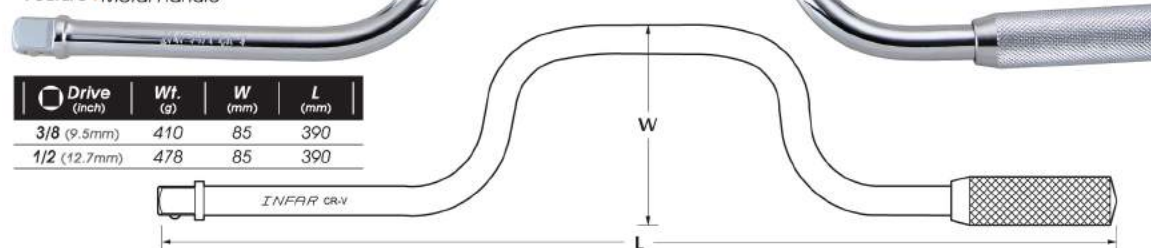
SPEEDER HANDLE

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

SPK

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Metal Handle

Drive (inch)	Wt. (g)	W (mm)	L (mm)
3/8 (9.5mm)	410	85	390
1/2 (12.7mm)	478	85	390



OFFSET HANDLE

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

LHD

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Knurling Metal Handle

Drive (inch)	Wt. (g)	W (mm)	L (mm)
1/2 (12.7mm)	1400	77	280
3/4 (19.0mm)	1970	90	305

FOLDING CROSS WRENCH

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

XBR

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | Fits 17-19-21-23mm Sockets

Wt. (g)	L (mm)
1232	355



SOCKET ACCESSORY

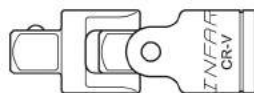
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- Superior life-time test.

SPARK PLUG SOCKET

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **6 POINT** **SPK**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Twin / Micro Satin Finish
Feature | 6 Point Socket
None / Single Groove / Knurling

Drive (inch)	Size (inch)	Wt. (g)	L (mm)	Drive (inch)	Size (mm)	Wt. (g)	L (mm)
3/8 (9.5mm)	5/8	92	65	3/8 (9.5mm)	16	92	65
3/8 (9.5mm)	13/16	142	65	3/8 (9.5mm)	18	-	65
1/2 (12.7mm)	5/8	90	65	3/8 (9.5mm)	21	138	65
1/2 (12.7mm)	13/16	142	65	1/2 (12.7mm)	16	90	65
				1/2 (12.7mm)	21	138	65



UNIVERSAL JOINT

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **UVJ**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | None / Single Groove

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	26	38.2
3/8 (9.5mm)	60	53.0
1/2 (12.7mm)	154	78.3
3/4 (19.0mm)	592	109



UNIVERSAL TYPE, MAGNETIC SPARK PLUG SOCKET

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **6 POINT** **SPLINE** **SPKU**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 6 Point / Spline Socket
None / Knurling

Drive (inch)	Size (inch/mm)	Wt. (g)	L (mm)
3/8 (9.5mm)	9/16 14	178	131
3/8 (9.5mm)	5/8 16	194	131
3/8 (9.5mm)	13/16 21	230	131



FXM ADAPTER

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **FMA**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish

Item No.	F/Drive (inch)	M/Drive (inch)	wt. (g)	L (mm)
2F3M	1/4 (6.35mm)	3/8 (9.5mm)	-	26.0
3F2M	3/8 (9.5mm)	1/4 (6.35mm)	20	27.0
3F4M	3/8 (9.5mm)	1/2 (12.7mm)	45	35.0
4F3M	1/2 (12.7mm)	3/8 (9.5mm)	48	36.0
4F6M	1/2 (12.7mm)	3/4 (19.0mm)	140	48.8
6F4M	3/4 (19.0mm)	1/2 (12.7mm)	170	53.5
6F8M	3/4 (19.0mm)	1" (25.4mm)	390	62
8F6M	1" (25.4mm)	3/4 (19.0mm)	430	66



BIT SYSTEM

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.
- Superior life-time test.

SPINNER HANDLE

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **SPH**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt Finish
Feature | TPR & PP Grip

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	76	156



SPINNER HANDLE

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **SPH**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt Finish
Feature | Injection Moulding Grip

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	100	170



Spinner handle can be used as an extension bar when combined with a ratchet handle.

COUPLER

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **CUP**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt Finish

Drive (inch)	Hex (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	14	25

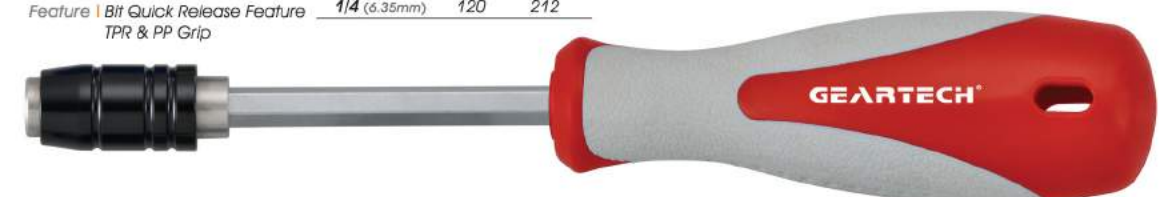


QUICK RELEASE BIT HANDLE

MEETS OR EXCEEDS **A.N.S.I.** STANDARDS **DIN** STANDARDS **QRPBH**

Material | Chrome Vanadium Steel
Surface | Mirror / Matt Finish
Feature | Bit Quick Release Feature
TPR & PP Grip

Hex (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	120	212



BIT SYSTEM

- Made by heat-treated S2 Steel for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.

BIT ADAPTER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel
Surface |

Hex (inch)	Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	7	25
1/4 (6.35mm)	1/4 (6.35mm)	20	64
1/4 (6.35mm)	1/2 (12.7mm)	46	72



Ratchet handle can be used as a bit driver when using with bit adapter.

UNIVERSAL BIT HOLDER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel
Surface | Black Oxide Finish

Hex (inch)	Hex (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	83	100



MAGNETIC BIT HOLDER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | S2 Steel
Surface |

Hex (inch)	Hex (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	19	59.5



COUPLER FOR RATCHET HANDLE

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish

Drive (inch)	Hex (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	14	25.4
3/8 (9.5mm)	1/4 (6.35mm)	20	28.0
1/2 (12.7mm)	5/16 (7.9mm)	46	38.4



1/4" HEX 1"(L) SPLINE BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
M5	25
M6	25
M8	25



1/4" HEX 1"(L) SQUARE BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
S0	25
S1	25
S2	25
S3	25



QUICK RELEASE BIT HOLDER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt Finish
Feature | Bit Quick Release Feature

Hex (inch)	Hex (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	1/4 (6.35mm)	36	60



BIT SYSTEM

- Made by heat-treated S2 Steel for strength exceeding international specifications.
- Professional plating prevents socket accessories from corrosion.

1/4" HEX 1"(L) HEX BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
H2	25
H2.5	25
H3	25
H4	25
H5	25
H6	25
H7	25
H8	25



1/4" HEX 1"(L) SLOTTED BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
SL3	25
SL4	25
SL4.5	25
SL5.5	25
SL6.5	25



1/4" HEX 1"(L) SPANNER BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
SH6	25
SH8	25
SH10	25



1/4" HEX 1"(L) PHILLIPS BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
PH00	25
PH0	25
PH1	25
PH2	25
PH3	25



1/4" HEX 3"(L) PHILLIPS BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
PH1	75
PH2	75
PH3	75



1/4" HEX 3"(L) POZIDR BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
PZ1	75
PZ2	75



1/4" HEX 1"(L) POZI BIT

Material | S2 Steel
Surface |

Size (mm)	L (mm)
PZ1	25
PZ2	25
PZ3	25



1/4" HEX 1"(L) STAR BIT

Material | S2 Steel
Surface |

Size (star)	L (mm)
T7	25
T8	25
T9	25
T10	25
T15	25
T20	25
T25	25
T27	25
T30	25
T40	25



1/4" HEX 1"(L) TAMPER STAR BIT

Material | S2 Steel
Surface |

Size (star)	L (mm)
TT7	25
TT8	25
TT9	25
TT10	25
TT15	25
TT20	25
TT25	25
TT27	25
TT30	25
TT40	25



1/4" HEX 1"(L) 5 POINT STAR BIT

Material | S2 Steel
Surface |

Size (star)	L (mm)
TS10	25
TS15	25
TS20	25
TS25	25
TS27	25
TS30	25
TS40	25
TS45	25
TS50	25



BIT SET



67x 1/4" Hex Power Bit Set

EVA Tray + EVA Label + Plastic Case + Color Box

Content 1x 1/4" Dr x 1/4" Hex Coupler

1x 1/4" Hex 100mm Universal Bit Holder

65x 1/4" Hex 25mm Bits:

10x Tamper Star: T7, T8, T9, T10, T15, T20, T25, T27, T30, T40

10x Star: T7, T8, T9, T10, T15, T20, T25, T27, T30, T40

9x 5PT Star: TS10, TS15, TS20, TS25, TS27, TS30, TS40, TS45, TS50

8x Hex: H2, H2.5, H3, H4, H5, H6, H7, H8

3x Spline: M5, M6, M8

3x Spanner: SH6, SH8, SH10

4x Square: S0, S1, S2, S3

5x Slotted: SL3, SL4, SL4.5, SL5.5, SL6.5

6x Phillips: PH1(x2), PH2(x2), PH3(x2)

6x Pozl: PZ1(x2), PZ2(x2), PZ3(x2)

1x 1/4" Dr Adapter



8x 1/4" Hex Ratchet Bit Driver Set

Single Blister + Cardboard

Content 1x 1/4" Hex Ratchet Bit Driver

7x 1/4" Hex 25mm Bits Clip-on Rail:

PH1, PH2, PH3, SL4.5, SL7, T15, T20

6x 1/4" Hex Half Flexible Hose Clip Nut Driver Set

Single Blister + Cardboard

Content 1x 1/4" Hex Flexible 610mm Bit Holder Driver

5x 1/4" Dr Metric Sockets Clip-on Rail:

5, 6, 7, 8, 10mm



11x 1/4" Hex Half Flexible Hose Clip Bit Driver Set

Single Blister + Cardboard

Content 1x 1/4" Hex Flexible 610mm Bit Holder Driver

10x 1/4" Hex 25mm(L) Bits Clip-on Rail:

PH1, PH2, PZ1, PZ2, SL4, SL5, T20, T25, T30, T40

37x 10mm Hex Professional Bit Set

PVC Tray + EVA Label + Metal Case + Color Box

Content 1x 1/2" Dr x 10mm Hex Coupler

1x 3/8" Dr x 10mm Hex Coupler

1x 10mm Hex 100mm Extension Bit Holder

34x 10mm Hex 30mm Bits:

12x Star: T10, T15, T20, T25, T27, T30, T40, T45, T50, T55, T60, T70

6x Hex: H4, H5, H6, H8, H10, H12

6x Spline: M4, M5, M6, M8, M10, M12

10x Ribe: R4, R5, R6, R7, R8, R9, R10, R12, R13, R14



10x 1/2" Dr Heavy Duty Impact Driver Set

Double Blister + Card

Content 1x 1/2" Dr Impact Handle

1x 1/2" Dr x 5/16" Hex Coupler:

4x 5/16" Hex 36mm Bits: PH2, PH3, SL8, SL10

4x 5/16" Hex 80mm Bits:

PH2, PH3, SL8, SL10

IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.

3/8" DRIVE IMPACT SOCKET



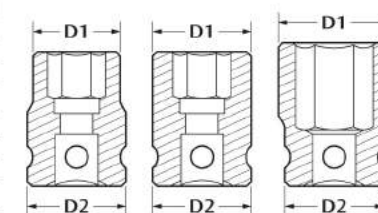
Material | Chrome Molybdenum Steel

Surface | Black Oxide Finish

Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)
1/4	11.0	19.0	28
5/16	13.5	19.0	28
3/8	15.0	19.0	28
7/16	17.3	19.0	30
1/2	20.2	22.0	30
9/16	21.1	22.0	30
5/8	23.8	22.0	30
11/16	23.8	22.0	32
3/4	27.5	22.0	32
13/16	29.8	22.0	32
7/8	31.8	22.0	32
15/16	33.8	22.0	32
1"	33.8	22.0	32

Size (mm)	D1 (mm)	D2 (mm)	L (mm)
6	11.3	19.0	28
7	12.1	19.0	28
8	13.5	19.0	28
9	14.5	19.0	28
10	15.8	19.0	28
11	17.0	19.0	30
12	18.2	19.0	30
13	19.5	22.0	30
14	20.8	22.0	30
15	22.0	22.0	30
16	23.8	22.0	30
17	23.8	22.0	32
18	25.8	22.0	32
19	27.5	22.0	32
20	27.8	22.0	32
21	29.8	22.0	32
22	31.8	22.0	32
23	31.8	22.0	32
24	33.8	22.0	32



3/8" DRIVE DEEP IMPACT SOCKET



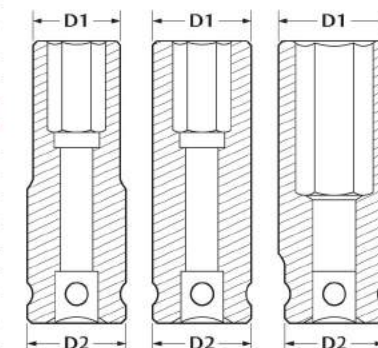
Material | Chrome Molybdenum Steel

Surface | Black Oxide Finish

Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)
1/4	11.0	19.0	63
5/16	13.5	19.0	63
3/8	15.0	19.0	63
7/16	17.3	19.0	63
1/2	20.2	22.0	63
9/16	21.1	22.0	63
5/8	23.8	22.0	63
11/16	23.8	22.0	63
3/4	27.5	22.0	63
13/16	29.8	22.0	63
7/8	31.8	22.0	63
15/16	33.8	22.0	63
1"	33.8	22.0	63

Size (mm)	D1 (mm)	D2 (mm)	L (mm)
6	11.3	19.0	63
7	12.1	19.0	63
8	13.5	19.0	63
9	14.5	19.0	63
10	15.8	19.0	63
11	17.0	19.0	63
12	18.2	19.0	63
13	19.5	22.0	63
14	20.8	22.0	63
15	22.0	22.0	63
16	23.8	22.0	63
17	23.8	22.0	63
18	25.8	22.0	63
19	27.5	22.0	63
20	27.8	22.0	63
21	29.8	22.0	63
22	31.8	22.0	63
23	31.8	22.0	63
24	33.8	22.0	63



IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



1/2" DRIVE IMPACT SOCKET



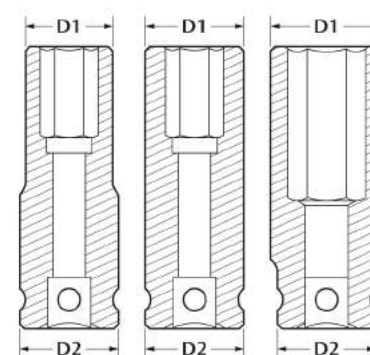
A43SKA

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
5/16	14.0	25.0	38	7	13.0	25.0	38	32	43.8	30.0	43
3/8	17.0	25.0	38	8	14.0	25.0	38	33	44.8	30.0	46
7/16	18.5	25.0	38	9	15.0	25.0	38	34	45.8	30.0	46
1/2	20.5	25.0	38	10	17.0	25.0	38	35	47.8	30.0	50
9/16	23.0	25.0	38	11	18.0	25.0	38	36	49.8	30.0	50
5/8	24.5	30.0	38	12	19.0	25.0	38	38	51.8	30.0	50
11/16	27.0	30.0	38	13	20.0	25.0	38	39	52.0	30.0	50
3/4	28.0	30.0	38	14	22.0	25.0	38	41	56.0	38.0	50
13/16	30.0	30.0	38	15	23.0	30.0	38	46	62.0	44.0	60
7/8	31.8	30.0	38	16	24.0	30.0	38				
15/16	33.8	30.0	40	17	26.0	30.0	38				
1"	35.8	30.0	40	18	27.0	30.0	38				
1-1/16	37.8	30.0	43	19	28.0	30.0	38				
1-1/8	39.8	30.0	43	20	29.0	30.0	38				
1-3/16	41.8	30.0	43	21	30.0	30.0	38				
1-1/4	43.8	30.0	43	22	31.8	30.0	38				
1-5/16	44.8	30.0	46	23	31.8	30.0	38				
1-3/8	47.8	30.0	50	24	33.8	30.0	40				
1-7/16	49.8	30.0	50	25	35.0	30.0	40				
1-1/2	51.8	30.0	50	26	35.8	30.0	43				
1-5/8	56.0	38.0	50	27	37.8	30.0	43				
				28	39.8	30.0	43				
				29	39.8	30.0	43				
				30	41.8	30.0	43				

IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



1/2" DRIVE DEEP IMPACT SOCKET



A44SKA

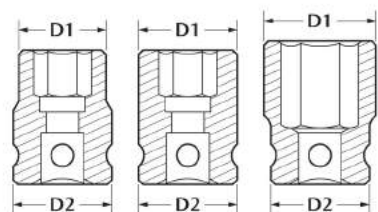
Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
5/16	14.0	25.0	78	8	14.0	25.0	78	33	44.8	30.0	78
3/8	17.0	25.0	78	9	15.0	25.0	78	34	45.8	30.0	78
7/16	18.5	25.0	78	10	17.0	25.0	78	35	47.8	30.0	78
1/2	20.5	25.0	78	11	18.0	25.0	78	36	49.8	30.0	78
9/16	23.0	25.0	78	12	19.0	25.0	78	38	51.8	30.0	78
5/8	24.5	30.0	78	13	20.0	25.0	78	41	56.0	30.0	78
11/16	27.0	30.0	78	14	22.0	25.0	78	46	62.0	38.0	78
3/4	28.0	30.0	78	15	23.0	30.0	78				
13/16	30.0	30.0	78	16	24.0	30.0	78				
7/8	31.8	30.0	78	17	26.0	30.0	78				
15/16	33.8	30.0	78	18	27.0	30.0	78				
1"	35.8	30.0	78	19	28.0	30.0	78				
1-1/16	37.8	30.0	78	20	29.0	30.0	78				
1-1/8	39.8	30.0	78	21	30.0	30.0	78				
1-3/16	41.8	30.0	78	22	31.8	30.0	78				
1-1/4	43.8	30.0	78	23	31.8	30.0	78				
1-5/16	44.8	30.0	78	24	33.8	30.0	78				
1-3/8	47.8	30.0	78	25	35.0	30.0	78				
1-7/16	49.8	30.0	78	26	35.8	30.0	78				
1-1/2	51.8	30.0	78	27	37.8	30.0	78				
				28	39.8	30.0	78				
				29	39.8	30.0	78				
				30	41.8	30.0	78				
				32	43.8	30.0	78				



IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



3/4" DRIVE IMPACT SOCKET

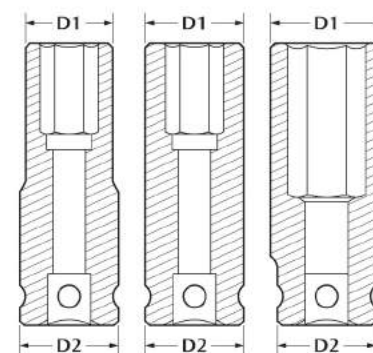


Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
1/2	22.0	38.0	50	13	22.0	38.0	50	50	71.0	54.0	72
9/16	25.5	38.0	50	14	25.5	38.0	50	52	74.0	54.0	72
5/8	27.5	38.0	50	15	26.0	38.0	50	54	77.0	54.0	72
11/16	29.0	38.0	50	16	27.5	38.0	50	55	77.0	54.0	74
3/4	30.2	38.0	52	17	28.5	38.0	50	56	77.0	54.0	74
13/16	32.0	38.0	52	18	29.5	38.0	52	57	80.0	54.0	74
7/8	34.0	38.0	52	19	30.0	38.0	52	58	82.0	54.0	74
15/16	36.0	38.0	52	20	31.0	38.0	52	59	82.0	54.0	75
1"	38.0	38.0	52	21	32.0	38.0	52	60	84.0	54.0	80
1-1/16	40.0	40.0	52	22	34.0	38.0	52	62	85.0	54.0	80
1-1/8	42.0	42.0	52	23	35.0	38.0	52	65	88.0	54.0	80
1-3/16	44.0	44.0	52	24	36.0	38.0	52	67	90.0	54.0	80
1-1/4	46.0	44.0	52	25	38.0	38.0	52	70	96.0	54.0	85
1-5/16	50.0	44.0	56	26	38.0	38.0	52				
1-3/8	52.0	44.0	56	27	40.0	40.0	52				
1-7/16	54.0	44.0	56	28	42.0	42.0	52				
1-1/2	56.0	44.0	56	29	42.0	42.0	52				
1-9/16	58.0	44.0	62	30	46.0	44.0	52				
1-5/8	60.0	44.0	62	32	48.0	44.0	52				
1-11/16	63.5	44.0	62	33	50.0	44.0	56				
1-3/4	65.0	44.0	62	34	51.0	44.0	56				
1-13/16	67.0	44.0	68	35	52.0	44.0	56				
1-7/8	68.0	44.0	68	36	53.5	44.0	56				
1-15/16	70.0	44.0	70	37	54.0	44.0	56				
2"	71.0	54.0	72	38	56.0	44.0	56				
2-1/16	74.0	54.0	72	39	56.0	44.0	58				
2-1/8	77.0	54.0	72	40	58.0	44.0	62				
2-3/16	77.0	54.0	74	41	60.0	44.0	58				
2-1/4	80.0	54.0	74	42	61.0	44.0	62				
2-5/16	82.0	54.0	75	43	63.0	44.0	63				
2-3/8	84.0	54.0	80	44	65.0	44.0	63				
2-7/16	85.0	54.0	80	45	66.0	44.0	63				
2-1/2	86.0	54.0	80	46	67.0	44.0	63				
2-9/16	88.0	54.0	80	47	68.0	44.0	68				
2-3/4	96.0	54.0	85	48	69.0	44.0	68				
				49	70.0	44.0	70				

IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



3/4" DRIVE DEEP IMPACT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
1/2	22.0	38.0	90	13	22.0	38.0	90	50	71.0	54.0	95
9/16	25.5	38.0	90	14	25.5	38.0	90	52	74.0	54.0	95
5/8	27.5	38.0	90	15	26.0	38.0	90	54	76.0	54.0	100
11/16	29.0	38.0	90	16	27.5	38.0	90	55	77.0	54.0	100
3/4	30.0	38.0	90	17	28.5	38.0	90	57	80.0	54.0	100
13/16	32.0	38.0	90	18	29.5	38.0	90	58	82.0	54.0	105
7/8	34.0	38.0	90	19	30.0	38.0	90	59	82.0	54.0	105
15/16	36.0	38.0	90	20	31.0	38.0	90	60	84.0	54.0	105
1"	38.0	38.0	90	21	32.0	38.0	90	62	85.0	54.0	105
1-1/16	40.0	40.0	90	22	34.0	38.0	90	65	88.0	54.0	105
1-1/8	42.0	42.0	90	23	35.0	38.0	90	70	96.0	54.0	105
1-3/16	44.0	44.0	90	24	36.0	38.0	90				
1-1/4	46.0	44.0	90	25	38.0	38.0	90				
1-5/16	50.0	44.0	90	26	38.0	38.0	90				
1-3/8	52.0	44.0	90	27	40.0	40.0	90				
1-7/16	54.0	44.0	90	28	42.0	42.0	90				
1-1/2	56.0	44.0	92	29	42.0	42.0	90				
1-9/16	58.0	44.0	92	30	46.0	44.0	90				
1-5/8	60.0	44.0	92	32	48.0	44.0	90				
1-11/16	63.5	44.0	92	33	50.0	44.0	90				
1-3/4	65.0	44.0	92	34	51.0	44.0	90				
1-13/16	67.0	44.0	92	35	52.0	44.0	90				
1-7/8	68.0	44.0	92	36	53.5	44.0	90				
1-15/16	70.0	44.0	92	37	54.0	44.0	90				
2"	71.0	54.0	95	38	56.0	44.0	92				
2-1/16	74.0	54.0	95	39	56.0	44.0	92				
2-1/8	77.0	54.0	100	40	58.0	44.0	92				
2-3/16	77.0	54.0	100	41	60.0	44.0	92				
2-1/4	80.0	54.0	100	42	61.0	44.0	92				
2-5/16	82.0	54.0	105	43	63.0	44.0	92				
2-3/8	84.0	54.0	105	44	65.0	44.0	92				
2-7/16	85.0	54.0	105	45	66.0	44.0	92				
2-1/2	86.0	54.0	105	46	67.0	44.0	92				
2-9/16	88.0	54.0	105	47	68.0	44.0	92				
2-3/4	96.0	54.0	105	48	69.0	44.0	92				
				49	70.0	44.0	92				

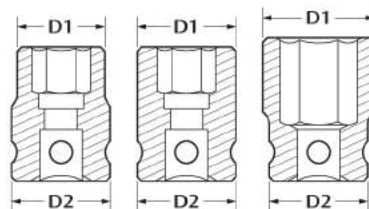
IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.

1" DRIVE IMPACT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket



Size (inch)	D1 (mm)	D2 (mm)	L (mm)
5/8	32.0	51.0	58
11/16	34.0	51.0	58
3/4	36.0	51.0	58
13/16	38.0	51.0	58
7/8	39.0	51.0	58
5/16	40.0	51.0	58
1"	42.0	51.0	58
1-1/16	44.0	51.0	58
1-1/8	46.0	51.0	58
1-3/16	48.0	51.0	60
1-1/4	51.0	51.0	60
1-5/16	53.0	52.0	62
1-3/8	54.0	54.0	62
1-7/16	56.0	54.0	62
1-1/2	58.0	54.0	62
1-9/16	60.0	54.0	62
1-5/8	61.5	54.0	62
1-11/16	65.0	54.0	64
1-3/4	66.0	58.0	64
1-13/16	68.0	58.0	64
1-7/8	70.0	58.0	66
1-15/16	72.0	58.0	70
2"	74.0	58.0	70
2-1/16	75.0	58.0	70
2-1/8	78.0	58.0	70
2-3/16	80.0	62.0	72
2-1/4	84.0	62.0	75
2-5/16	86.0	62.0	75
2-3/8	87.0	62.0	78
2-7/16	89.0	62.0	78
2-1/2	91.0	62.0	80
2-9/16	93.0	62.0	80
2-5/8	95.0	62.0	82
2-11/16	97.0	62.0	82
2-3/4	98.0	62.0	85
2-13/16	100.0	62.0	87
2-7/8	102.0	62.0	87
2-15/16	104.0	86.0	95
3"	106.0	86.0	98
3-1/16	107.0	86.0	100
3-1/8	109.0	86.0	100
3-1/4	113.0	86.0	100
3-3/8	115.0	86.0	100
3-1/2	125.0	86.0	105
3-5/8	127.0	86.0	105
3-3/4	130.0	86.0	105
3-7/8	136.0	95.0	105
3-15/16	137.0	95.0	105
4"	140.0	95.0	105
4-1/8	143.0	95.0	105
4-1/4	147.0	95.0	105
4-1/2	152.0	95.0	105

Size (mm)	D1 (mm)	D2 (mm)	L (mm)
17	34.0	51.0	58
18	35.0	51.0	58
19	36.0	51.0	58
20	37.0	51.0	58
21	38.0	51.0	58
22	39.0	51.0	58
23	40.0	51.0	58
24	40.5	51.0	58
25	41.0	51.0	58
26	42.5	51.0	58
27	44.0	51.0	58
28	45.0	51.0	58
29	46.0	51.0	60
30	48.0	51.0	60
32	51.0	51.0	62
33	53.0	52.0	62
34	54.0	54.0	62
35	54.0	54.0	62
36	56.0	54.0	62
37	57.0	54.0	62
38	58.0	54.0	62
39	58.7	54.0	62
40	60.0	54.0	62
41	61.5	54.0	62
42	63.0	54.0	64
43	65.0	54.0	64
44	65.0	54.0	64
45	66.0	54.0	64
46	68.0	54.0	64
47	69.0	54.0	66

Size (mm)	D1 (mm)	D2 (mm)	L (mm)
48	70.0	54.0	66
49	72.0	58.0	68
50	73.0	54.0	70
51	74.0	58.0	70
52	75.0	58.0	70
53	75.0	54.0	70
54	78.0	58.0	70
55	79.0	54.0	72
56	80.0	62.0	72
57	84.0	62.0	75
58	85.0	54.0	75
59	86.0	62.0	75
60	87.0	54.0	78
62	89.0	62.0	78
63	91.0	54.0	80
65	93.0	54.0	80
70	98.0	54.0	85
73	102.0	62.0	87
75	104.0	86.0	95
76	106.0	86.0	98
80	109.0	86.0	100
85	115.0	86.0	100
90	125.0	86.0	105
95	130.0	86.0	105
100	137.0	95.0	105
105	143.0	95.0	105
110	147.0	95.0	105
115	152.0	95.0	105
120	160.0	95.0	110
125	165.0	95.0	115



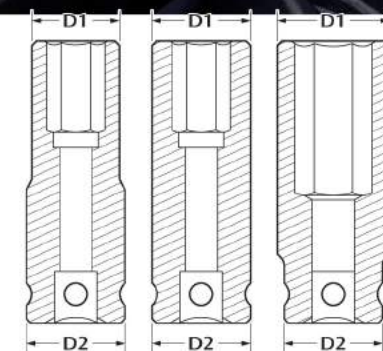
IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.

1" DRIVE DEEP IMPACT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket



Size (inch)	D1 (mm)	D2 (mm)	L (mm)
5/8	32.0	51.0	90
11/16	34.0	51.0	90
3/4	36.0	51.0	90
13/16	38.0	51.0	90
7/8	39.0	51.0	90
5/16	40.0	51.0	90
1"	42.0	51.0	90
1-1/16	44.0	51.0	90
1-1/8	46.0	51.0	90
1-3/16	48.0	51.0	90
1-1/4	51.0	51.0	90
1-5/16	53.0	52.0	90
1-3/8	54.0	54.0	90
1-7/16	56.0	54.0	90
1-1/2	58.0	54.0	92
1-9/16	60.0	54.0	92
1-5/8	61.5	54.0	92
1-11/16	65.0	54.0	92
1-3/4	66.0	58.0	92
1-13/16	68.0	58.0	92
1-7/8	70.0	58.0	92
1-15/16	72.0	58.0	92
2"	74.0	58.0	95
2-1/16	75.0	58.0	92
2-1/8	78.0	58.0	100
2-3/16	80.0	62.0	100
2-1/4	84.0	62.0	100
2-5/16	86.0	62.0	105
2-3/8	87.0	62.0	105
2-7/16	89.0	62.0	110
2-1/2	91.0	62.0	110
2-9/16	93.0	62.0	120
2-5/8	95.0	62.0	120
2-11/16	97.0	62.0	124
2-3/4	98.0	62.0	124
2-13/16	100.0	62.0	128
2-7/8	102.0	62.0	128
2-15/16	104.0	86.0	135
3"	106.0	86.0	135
3-1/16	107.0	86.0	135
3-1/8	109.0	86.0	135
3-1/4	113.0	86.0	135
3-3/8	115.0	86.0	140
3-1/2	125.0	86.0	140
3-5/8	127.0	86.0	140
3-3/4	130.0	86.0	140
3-7/8	136.0	95.0	140
3-15/16	137.0	95.0	140
4"	140.0	95.0	155
4-1/8	143.0	95.0	155
4-1/4	147.0	95.0	155
4-1/2	152.0	95.0	155

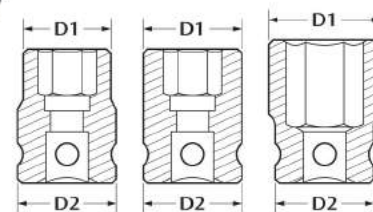
Size (mm)	D1 (mm)	D2 (mm)	L (mm)
17	34.0	51.0	90
18	35.0	51.0	90
19	36.0	51.0	90
20	37.0	51.0	90
21	38.0	51.0	90
22	39.0	51.0	90
23	40.0	51.0	90
24	40.5	51.0	90
25	41.0	51.0	90
26	42.5	51.0	90
27	44.0	51.0	90
28	45.0	51.0	90
29	46.0	51.0	90
30	48.0	51.0	90
32	51.0	51.0	90
33	53.0	52.0	90
34	54.0	54.0	90
35	54.0	54.0	90
36	56.0	54.0	90
37	57.0	54.0	90
38	58.0	54.0	92
39	58.7	54.0	92
40	60.0	54.0	92
41	61.5	54.0	92
42	63.0	54.0	92
43	65.0	54.0	92
44	65.0	54.0	92
45	66.0	54.0	92
46	68.0	54.0	92
47	69.0	54.0	92

Size (mm)	D1 (mm)	D2 (mm)	L (mm)
48	70.0	54.0	92
49	72.0	58.0	92
50	73.0	54.0	95
51	74.0	58.0	95
52	75.0	58.0	95
54	78.0	58.0	100
55	79.0	54.0	100
56	80.0	62.0	100
57	84.0	62.0	100
58	85.0	54.0	100
59	86.0	62.0	105
60	87.0	54.0	105
62	89.0	62.0	110
63	91.0	54.0	110
65	93.0	54.0	120
70	98.0	54.0	124
73	102.0	62.0	128
75	104.0	86.0	135
76	106.0	86.0	135
78	107.0	86.0	135
80	109.0	86.0	135
85	115.0	86.0	140
90	125.0	86.0	140
95	130.0	86.0	140
100	137.0	95.0	140
105	143.0	95.0	155
110	147.0	95.0	155
115	152.0	95.0	155



IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



1-1/2" DRIVE IMPACT SOCKET

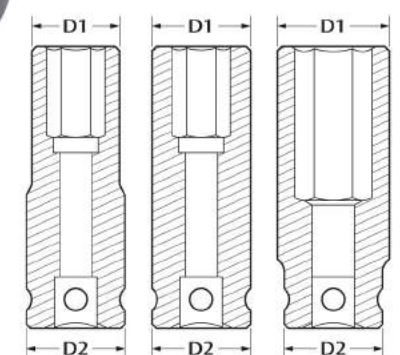


Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
1-3/16	56.0	86.0	78	3-7/16	128.0	86.0	118	30	56.0	86.0	78
1-1/4	58.0	86.0	78	3-1/2	130.0	86.0	118	32	58.0	86.0	78
1-5/16	60.0	86.0	78	3-9/16	132.0	86.0	118	34	61.0	86.0	78
1-3/8	62.0	86.0	78	3-5/8	134.0	86.0	118	36	64.0	86.0	78
1-7/16	64.0	86.0	78	3-11/16	136.0	86.0	118	38	66.0	86.0	78
1-1/2	66.0	86.0	78	3-3/4	137.0	95.0	118	41	70.0	86.0	80
1-9/16	68.0	86.0	78	3-13/16	140.0	95.0	125	46	76.0	86.0	84
1-5/8	70.0	86.0	80	3-7/8	142.0	95.0	125	50	81.0	86.0	87
1-11/16	71.0	86.0	80	3-15/16	144.0	95.0	125	55	87.0	86.0	90
1-3/4	75.0	86.0	84	4"	145.0	95.0	125	60	93.0	86.0	92
1-13/16	76.0	86.0	84	4-1/16	146.0	95.0	125	65	97.0	86.0	95
1-7/8	78.0	86.0	84	4-1/8	150.0	95.0	125	68	104.0	86.0	100
1-15/16	80.0	86.0	87	4-3/16	151.0	95.0	125	70	105.0	86.0	100
2"	82.0	86.0	87	4-1/4	153.0	95.0	125	73	108.0	86.0	103
2-1/16	83.0	86.0	87	4-5/16	156.0	95.0	125	75	110.0	86.0	103
2-1/8	86.0	86.0	90	4-3/8	160.0	95.0	125	78	115.0	86.0	110
2-3/16	86.0	86.0	90	4-7/16	162.0	95.0	125	80	116.0	86.0	110
2-1/4	86.0	86.0	92	4-1/2	163.0	95.0	135	85	125.0	86.0	118
2-5/16	92.0	86.0	92	4-5/8	165.0	95.0	135	90	130.0	86.0	118
2-3/8	93.0	86.0	92	4-3/4	168.0	95.0	135	95	137.0	95.0	118
2-7/16	96.0	86.0	95	5"	179.0	95.0	140	100	144.0	95.0	125
2-1/2	97.0	86.0	95					105	150.0	95.0	125
2-9/16	97.0	86.0	95					110	156.0	95.0	125
2-5/8	103.0	86.0	100					115	160.0	95.0	135
2-11/16	104.0	86.0	100					120	168.0	95.0	135
2-3/4	105.0	86.0	100					125	175.0	127.0	135
2-13/16	108.0	86.0	103					130	180.0	127.0	145
2-7/8	108.0	86.0	103					135	186.0	127.0	150
2-15/16	110.0	86.0	103					140	192.0	127.0	150
3"	110.0	86.0	103					145	198.0	127.0	150
3-1/16	115.0	86.0	110					150	203.0	127.0	150
3-1/8	116.0	86.0	110					155	209.0	127.0	150
3-3/16	125.0	86.0	110					160	222.0	127.0	175
3-1/4	125.0	86.0	110					165	228.0	127.0	175
3-5/16	125.0	86.0	118					175	235.0	127.0	175
3-3/8	125.0	86.0	118								

IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



1-1/2" DRIVE DEEP IMPACT SOCKET

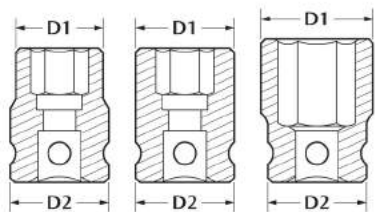


Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (inch)	D1 (mm)	D2 (mm)	L (mm)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
1-5/8	70.0	86.0	115	3-1/2	130.0	86.0	170	41	70.0	86.0	115
1-11/16	73.0	86.0	115	3-9/16	132.0	86.0	170	46	76.0	86.0	115
1-3/4	75.0	86.0	115	3-5/8	134.0	86.0	170	50	81.0	86.0	135
1-13/16	76.0	86.0	115	3-11/16	136.0	86.0	170	55	87.0	86.0	140
1-7/8	78.0	86.0	115	3-3/4	137.0	95.0	180	60	93.0	86.0	150
1-15/16	80.0	86.0	115	3-13/16	140.0	95.0	180	65	97.0	86.0	150
2"	82.0	86.0	135	3-7/8	142.0	95.0	180	70	105.0	86.0	160
2-1/16	83.0	86.0	140	3-15/16	144.0	95.0	190	75	110.0	86.0	170
2-1/8	86.0	86.0	140	4"	145.0	95.0	190	80	116.0	86.0	170
2-3/16	86.0	86.0	140	4-1/16	146.0	95.0	190	85	125.0	86.0	170
2-1/4	86.0	86.0	150	4-1/8	150.0	95.0	190	90	130.0	86.0	170
2-5/16	92.0	86.0	150	4-3/16	151.0	95.0	190	95	137.0	95.0	180
2-3/8	93.0	86.0	150	4-1/4	153.0	95.0	190	100	144.0	95.0	190
2-7/16	96.0	86.0	150	4-5/16	156.0	95.0	200	105	150.0	95.0	190
2-1/2	97.0	86.0	150	4-3/8	160.0	95.0	200	110	156.0	95.0	200
2-9/16	97.0	86.0	150	4-7/16	162.0	95.0	200	115	160.0	95.0	200
2-5/8	103.0	86.0	150	4-1/2	163.0	95.0	210	120	168.0	95.0	210
2-11/16	104.0	86.0	150	4-5/8	165.0	95.0	210				
2-3/4	105.0	86.0	160	4-3/4	168.0	95.0	210				
2-13/16	108.0	86.0	160								
2-7/8	108.0	86.0	160								
2-15/16	110.0	86.0	170								
3"	110.0	86.0	170								
3-1/16	115.0	86.0	170								
3-1/8	116.0	86.0	170								
3-3/16	125.0	86.0	170								
3-1/4	125.0	86.0	170								
3-5/16	125.0	86.0	170								
3-3/8	125.0	86.0	170								
3-7/16	128.0	86.0	170								

IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



2-1/2" DRIVE IMPACT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)
3"	120.0	127.0	140
3-1/8"	124.0	127.0	140
3-1/4"	127.0	127.0	140
3-3/8"	131.0	127.0	140
3-1/2"	135.0	127.0	140
3-5/8"	139.0	127.0	145
3-3/4"	143.0	127.0	145
3-7/8"	147.0	127.0	150
4"	151.0	127.0	150
4-1/8"	155.0	127.0	155
4-1/4"	159.0	127.0	160
4-3/8"	163.0	127.0	165
4-1/2"	167.0	127.0	165
4-5/8"	172.0	127.0	170
4-3/4"	176.0	127.0	170
4-7/8"	181.0	127.0	175
5"	185.0	127.0	175
5-1/8"	188.0	127.0	175
5-1/4"	193.0	127.0	175
1-3/8"	197.0	127.0	180
5-1/2"	202.0	127.0	180
5-5/8"	206.0	127.0	185
5-3/4"	210.0	127.0	185
5-7/8"	215.0	127.0	185
6"	218.0	127.0	185
6-1/8"	223.0	127.0	190
6-1/4"	227.0	127.0	190
6-3/8"	231.0	127.0	195
6-1/2"	235.0	127.0	195
6-5/8"	240.0	127.0	195
6-3/4"	244.0	127.0	195
6-7/8"	248.0	127.0	200
7"	252.0	127.0	200
7-1/2"	265.0	152.0	210
7-5/8"	268.0	152.0	210
7-7/8"	275.0	152.0	220



IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.

3/4" DRIVE DOUBLE SQUARE IMPACT SOCKET

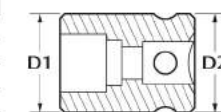


Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Double Square Socket

Size (inch)	D1 (mm)	D2 (mm)	L (mm)
3/4"	44.0	44.0	52
13/16"	44.0	44.0	52



Size (mm)	D1 (mm)	D2 (mm)	L (mm)
17	44.0	44.0	52
19	44.0	44.0	52
20	44.0	44.0	52
21	44.0	44.0	52



- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



1/2" DRIVE FLIP IMPACT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Each Socket Fits 2 Sizes

Size (inch)	D (mm)	L (mm)
11/16x3/4"	28.0	76
3/4x13/16"	30.0	76
13/16x7/8"	32.0	76
7/8x15/16"	34.0	82

Size (mm)	D (mm)	L (mm)
17x19	28.0	76
19x21	30.0	76
21x22	32.0	76
21x23	32.0	76

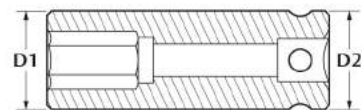
TO USE FLIP IMPACT SOCKET

- Each flip impact socket fits 2 sizes when combined with Impact extension Bar & air system.



IMPACT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



1/2" DRIVE WHEEL NUT IMPACT SOCKET

MEETS OR EXCEEDS
A.N.S.I. **DIN**
STANDARDS STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Size (mm)	D1 (mm)	D2 (mm)	L (mm)
15	23.8	25.0	85
17	26.3	30.0	85
19	28.3	30.0	85
21	30.1	30.0	85
22	32.2	32.0	85



- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.

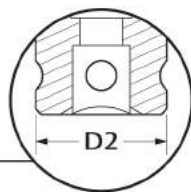
BUDD WHEEL IMPACT SOCKET

MEETS OR EXCEEDS
A.N.S.I. **DIN**
STANDARDS STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | 6 Point Socket

Drive (inch)	Size (mm)	D1 (mm)	D2 (mm)	L (mm)
3/4 (19.0mm)	35x17	54.0	44.0	90
3/4 (19.0mm)	41x21	58.0	44.0	95
1" (25.4mm)	35x17	54.0	54.0	94
1" (25.4mm)	38x19	56.0	54.0	94
1" (25.4mm)	38x20	55.0	54.0	96
1" (25.4mm)	41x21	58.0	54.0	99

Drive (inch)	Size (inch)	D1 (mm)	D2 (mm)	L (mm)
3/4 (19.0mm)	1-1/2x13/16	57.0	44.0	95
1" (25.4mm)	1-1/2x13/16	57.0	54.0	99

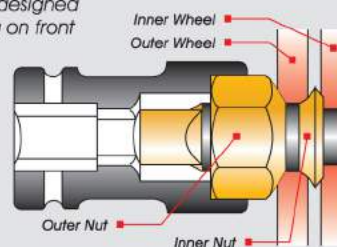


TO USE BUDD WHEEL IMPACT SOCKET

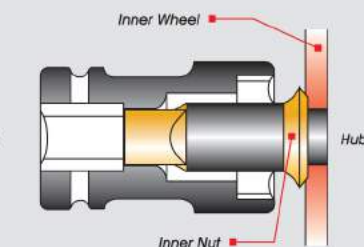
- Quality budd wheel impact sockets are designed to stand up to rugged use when working on front and rear axle wheels.

FEATURE / BENEFITS

Each socket distinctly laser etched with size for higher readability
35x17mm suitable for TOYOTA, MAZDA, ISUZU, NISSAN, DAIHATSU trucks
41x21mm suitable for NISSAN, MITSUBISHI, TRUCK, IMPORT trucks with dual rear wheels
1-1/2" socket for domestic trucks with dual rear wheels.



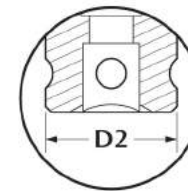
Tightening or loosening outer nut



Tightening or loosening inner nut

IMPACT BIT SOCKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



3/8" DRIVE IMPACT HEX BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. **DIN**
STANDARDS STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (inch)	D2 (mm)	L (mm)
3/16	19.0	60
7/32	19.0	60
1/4	19.0	60
9/32	19.0	60
5/16	19.0	60
3/8	19.0	60
7/16	19.0	60
1/2	19.0	60
9/16	19.0	60
5/8	19.0	60

Size (mm)	D2 (mm)	L (mm)
4	19.0	60
5	19.0	60
6	19.0	60
7	19.0	60
8	19.0	60
9	19.0	60
10	19.0	60
11	19.0	60
12	19.0	60
13	19.0	60
14	19.0	60
15	19.0	60
16	19.0	60

1/2" DRIVE IMPACT HEX BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. **DIN**
STANDARDS STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (inch)	D2 (mm)	L (mm)
3/16	25.0	77
7/32	25.0	77
1/4	25.0	77
9/32	25.0	77
5/16	25.0	77
3/8	25.0	77
7/16	25.0	77
1/2	25.0	77
9/16	25.0	77
5/8	25.0	77
11/16	25.0	77
3/4	25.0	77

Size (mm)	D2 (mm)	L (mm)
4	25.0	77
5	25.0	77
6	25.0	77
7	25.0	77
8	25.0	77
9	25.0	77
10	25.0	77
11	25.0	77
12	25.0	77
13	25.0	77
14	25.0	77
15	25.0	77
16	25.0	77
17	25.0	77
18	25.0	77
19	25.0	77

3/4" DRIVE IMPACT HEX BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. **DIN**
STANDARDS STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (inch)	D2 (mm)	L (mm)
3/8	44.0	100
7/16	44.0	100
1/2	44.0	100
9/16	44.0	100
5/8	44.0	100
11/16	44.0	100
3/4	44.0	100
13/16	44.0	100
7/8	44.0	100
1"	44.0	100
1-1/16	44.0	100

Size (mm)	D2 (mm)	L (mm)
10	44.0	100
12	44.0	100
14	44.0	100
17	44.0	100
19	44.0	100
22	44.0	100
24	44.0	100
27	44.0	100
30	44.0	100
32	44.0	100

1" DRIVE IMPACT HEX BIT SOCKET

MEETS OR EXCEEDS
A.N.S.I. **DIN**
STANDARDS STANDARDS

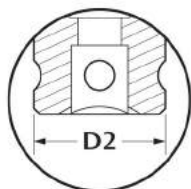
Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (inch)	D2 (mm)	L (mm)
3/8	54.0	100
7/16	54.0	100
1/2	54.0	100
9/16	54.0	100
5/8	54.0	100
11/16	54.0	100
3/4	54.0	100
13/16	54.0	100
7/8	54.0	100
1"	54.0	100
1-1/16	54.0	100

Size (mm)	D2 (mm)	L (mm)
10	54.0	100
12	54.0	100
14	54.0	100
17	54.0	100
19	54.0	100
22	54.0	100
24	54.0	100
27	54.0	100
30	54.0	100
32	54.0	100

IMPACT BIT CKET

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact sockets from corrosion.
- Superior life-time test.



3/8" DRIVE IMPACT STAR BIT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (star)	D2 (mm)	L (mm)
T10	19.0	60
T15	19.0	60
T20	19.0	60
T25	19.0	60
T27	19.0	60
T30	19.0	60
T40	19.0	60
T45	19.0	60
T47	19.0	60
T50	19.0	60
T55	19.0	60
T60	19.0	60
T70	19.0	60

1/2" DRIVE IMPACT STAR BIT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (star)	D2 (mm)	L (mm)
T10	25.0	77
T15	25.0	77
T20	25.0	77
T25	25.0	77
T27	25.0	77
T30	25.0	77
T40	25.0	77
T45	25.0	77
T47	25.0	77
T50	25.0	77
T55	25.0	77
T60	25.0	77
T70	25.0	77
T80	25.0	77

3/4" DRIVE IMPACT STAR BIT SOCKET



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (star)	D2 (mm)	L (mm)
T50	44.0	100
T55	44.0	100
T60	44.0	100
T70	44.0	100
T80	44.0	100
T90	44.0	100
T100	44.0	100

1" DRIVE IMPACT STAR BIT SOCKET

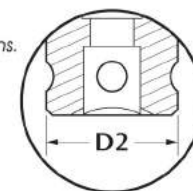


Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish

Size (star)	D2 (mm)	L (mm)
T50	54.0	100
T55	54.0	100
T60	54.0	100
T70	54.0	100
T80	54.0	100
T90	54.0	100
T100	54.0	100

IMPACT SOCKET ACCESSORY

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents impact socket accessories from corrosion.
- Superior life-time test.



IMPACT EXTENSION BAR



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Male End with Steel Ball Point

Drive (inch)	D2 (mm)	L (inch/mm)
1/4 (6.35mm)	13.0	2/50
1/4 (6.35mm)	13.0	4/100
1/4 (6.35mm)	13.0	6/150
3/8 (9.5mm)	19.0	3/75
3/8 (9.5mm)	19.0	6/150
3/8 (9.5mm)	19.0	10/250
1/2 (12.7mm)	25.0	2/50
1/2 (12.7mm)	25.0	3/75
1/2 (12.7mm)	25.0	5/125
1/2 (12.7mm)	25.0	7/175
1/2 (12.7mm)	25.0	10/250
1/2 (12.7mm)	25.0	12/300
1/2 (12.7mm)	25.0	18/455
1/2 (12.7mm)	25.0	24/610
3/4 (19.0mm)	44.0	4/100
3/4 (19.0mm)	44.0	6/150
3/4 (19.0mm)	44.0	7/175
3/4 (19.0mm)	44.0	8/200
3/4 (19.0mm)	44.0	10/250
3/4 (19.0mm)	44.0	13/330
3/4 (19.0mm)	44.0	16/400
1" (25.4mm)	54.0	4/100
1" (25.4mm)	54.0	7/175
1" (25.4mm)	54.0	8/200
1" (25.4mm)	54.0	10/250
1" (25.4mm)	54.0	13/330
1" (25.4mm)	54.0	16/400



IMPACT EXTENSION BAR



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Male End with Pin Hole

Drive (inch)	D2 (mm)	L (inch/mm)
3/4 (19.0mm)	44.0	4/100
3/4 (19.0mm)	44.0	6/150
3/4 (19.0mm)	44.0	7/175
3/4 (19.0mm)	44.0	8/200
3/4 (19.0mm)	44.0	10/250
3/4 (19.0mm)	44.0	13/330
3/4 (19.0mm)	44.0	16/400
1" (25.4mm)	54.0	4/100
1" (25.4mm)	54.0	7/175
1" (25.4mm)	54.0	8/200
1" (25.4mm)	54.0	10/250
1" (25.4mm)	54.0	13/330
1" (25.4mm)	54.0	16/400
1-1/2 (38.1mm)	86.0	5/125
1-1/2 (38.1mm)	86.0	10/250



IMPACT UNIVERSAL JOINT



Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Male End with Steel Ball Point

Drive (inch)	D2 (mm)	L (mm)
1/4 (6.35mm)	16.0	37
3/8 (9.5mm)	24.0	48
1/2 (12.7mm)	28.0	63
3/4 (19.0mm)	44.0	90
1" (25.4mm)	54.0	110



IMPACT UNIVERSAL JOINT



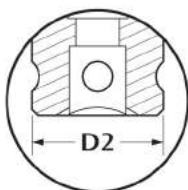
Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Male End with Pin Hole

Drive (inch)	D2 (mm)	L (mm)
3/4 (19.0mm)	44.0	90
1" (25.4mm)	54.0	110
1-1/2 (38.1mm)	86.0	150
2-1/2 (63.5mm)	127.0	230



IMPACT SOCKET ACCESSORY

- Made by heat-treated Chrome Molybdenum Steel for strength exceeding international specifications.
- Professional plating prevents impact socket accessories from corrosion.
- Superior life-time test.



IMPACT FXM ADAPTER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Male End with Steel Ball Point

AFMA



Product No.	Drive (inch)	M/Drive (inch)	D2 (mm)	L (mm)
2F3M	1/4 (6.35mm)	3/8 (9.5mm)	13.0	27
3F2M	3/8 (9.5mm)	1/4 (6.35mm)	22.0	32
3F4M	3/8 (9.5mm)	1/2 (12.7mm)	22.0	37
4F3M	1/2 (12.7mm)	3/8 (9.5mm)	25.0	38
4F6M	1/2 (12.7mm)	3/4 (19.0mm)	30.0	48
6F4M	3/4 (19.0mm)	1/2 (12.7mm)	44.0	56
6F8M	3/4 (19.0mm)	1" (25.4mm)	44.0	64
8F6M	1" (25.4mm)	3/4 (19.0mm)	54.0	75

IMPACT FXM ADAPTER

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS

Material | Chrome Molybdenum Steel
Surface | Black Oxide Finish
Feature | Male End with Pin Hole

AFMA

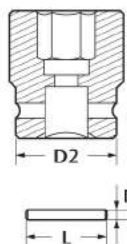


Product No.	Drive (inch)	M/Drive (inch)	D2 (mm)	L (mm)
6F8M	3/4 (19.0mm)	1" (25.4mm)	44.0	64
8F6M	1" (25.4mm)	3/4 (19.0mm)	54.0	75
8F8M	1" (25.4mm)	1-1/2 (38.1mm)	54.0	90
8F6M	1-1/2 (38.1mm)	1" (25.4mm)	86.0	100
8F8M	1-1/2 (38.1mm)	2-1/2 (63.5mm)	86.0	120
8F6M	2-1/2 (63.5mm)	1-1/2 (38.1mm)	127.0	138



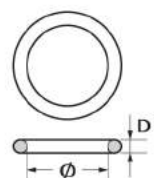
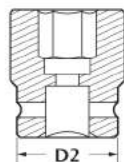
LOCKING PIN

Drive (inch)	D2 (mm)	L (mm)	D (mm)
1/2 (12.7mm)	25	19	3
1/2 (12.7mm)	30	24	3
1/2 (12.7mm)	38	33	3
1/2 (12.7mm)	44	39	3
3/4 (19.0mm)	38	31	4
3/4 (19.0mm)	40-42	34	4
3/4 (19.0mm)	44	35	4
3/4 (19.0mm)	54	45	4
1" (25.4mm)	51-52	42	5
1" (25.4mm)	54	45	5
1" (25.4mm)	58	49	5
1" (25.4mm)	62	53	5
1" (25.4mm)	86	75	6
1" (25.4mm)	95	81	6
1-1/2 (38.1mm)	86	75	6
1-1/2 (38.1mm)	95	84	6
2-1/2 (63.5mm)	127	110	8
2-1/2 (63.5mm)	152	135	8



RUBBER RING

Drive (inch)	D2 (mm)	Ø (mm)	D (mm)
1/2 (12.7mm)	25	19	4
1/2 (12.7mm)	30	24	4
1/2 (12.7mm)	38	32	4
1/2 (12.7mm)	44	38	4
3/4 (19.0mm)	38	32	5
3/4 (19.0mm)	40-42	35	5
3/4 (19.0mm)	44	38	5
3/4 (19.0mm)	54	48	5
1" (25.4mm)	51-52	43	7
1" (25.4mm)	54	46	7
1" (25.4mm)	58	50	7
1" (25.4mm)	62	54	7
1" (25.4mm)	86	78	7
1" (25.4mm)	95	87	7
1-1/2 (38.1mm)	86	76	10
1-1/2 (38.1mm)	95	85	10
2-1/2 (63.5mm)	127	115	10.5
2-1/2 (63.5mm)	152	140	10.5



REGULAR STYLE ADJUSTABLE WRENCH



Metric or inch measuring scale for fast size identification.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.



REGULAR STYLE ADJUSTABLE WRENCH

Material | Chrome Vanadium Steel
Surface | Chrome Plated / Black Oxide Finish

Size (mm)	Wt. (g)	L (mm)
13	50	100
20	114	150
25	232	200
30	396	250
34	616	300
44	1154	375
56	1694	450

WIDE JAW PREMIUM ADJUSTABLE WRENCH



Thicken heavy duty handle helps to reduce pressure on hand & easy to operate.



Wide jaw open end makes wrench work on larger bolts and nuts.



Metric or inch measuring scale for fast size identification.



Metric or inch measuring scale for fast size identification.



Wide jaw open end makes wrench work on larger bolts and nuts.



Tapered handle helps locate & align bolts.



Hammer section helps move stubborn bolts.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.



WIDE JAW PREMIUM ADJUSTABLE WRENCH

Material | Chrome Vanadium Steel
Surface | Chrome Plated / Black Oxide Finish
Feature | 18-25° Wide Jaw Open End
Non-protruding Mechanism for Limited Space
Thicken Heavy Duty Handle

Size (mm)	Wt. (g)	L (mm)
17	60	100
24	132	150
29	254	200
33	452	250
38	688	300
51	1318	375
60	1648	450
70	3082	600

CONSTRUCTION ADJUSTABLE WRENCH



Metric or inch measuring scale for fast size identification.



Wide jaw open end makes wrench work on larger bolts and nuts.



Tapered handle helps locate & align bolts.



Hammer section helps move stubborn bolts.

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.



CONSTRUCTION ADJUSTABLE WRENCH

Material | Chrome Vanadium Steel
Surface | Black Oxide Finish
Feature | Wide Jaw Open End
Tapered Handle
Hammer Section

REGULAR STYLE SCREWDRIVER

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- **Anti-slip cushioned grip** generates more power without slipping.
- **Hex bolster** on some screwdrivers let you generate more power with a wrench.
- Superior life-time test.



REGULAR STYLE SLOTTED SCREWDRIVER



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip

Size (mm)	Wt. (g)	L (mm)
6.5x38	44	110
3.0x75	32	165
5.5x100	64	205
6.5x100	106	225



REGULAR STYLE SLOTTED SCREWDRIVER WITH HEX BOLSTER



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip
Feature | Hex Bolster for Stubborn Fasteners

Size (mm)	Size (mm)	Wt. (g)	L (mm)
6.5x150	10	128	275
8.0x150	13	166	275

REGULAR STYLE PHILLIPS SCREWDRIVER



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip

Size (mm)	Wt. (g)	L (mm)
#2x38	46	110
#0x75	32	165
#1x75	60	180
#1x100	64	205
#2x100	106	225



REGULAR STYLE PHILLIPS SCREWDRIVER WITH HEX BOLSTER



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip
Feature | Hex Bolster for Stubborn Fasteners

Size (mm)	Size (mm)	Wt. (g)	L (mm)
#2x150	10	128	275
#3x150	13	164	275

REGULAR STYLE TAMPER STAR SCREWDRIVER



- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- **Anti-slip cushioned grip** generates more power without slipping.
- Superior life-time test.



REGULAR STYLE TAMPER STAR SCREWDRIVER



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip

Size (mm)	Wt. (g)	L (mm)	Size (mm)	Wt. (g)	L (mm)
TT8x75	60	180	TT25x100	108	225
TT10x100	64	205	TT27x100	106	225
TT15x100	64	205	TT30x150	146	270
TT20x100	108	225	TT40x150	148	275

GO-THROUGH SCREWDRIVER

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- **Anti-slip cushioned grip** generates more power without slipping.
- **Hex bolster** on screwdrivers let you generate more power with a wrench.
- Superior life-time test.



**GO-THROUGH
SLOTTED SCREWDRIVER
WITH HEX BOLSTER**



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip
Feature | Hex Bolster for Stubborn Fasteners

Size (mm)	Size (mm)	Wt. (g)	L (mm)
6.5x100	10	156	215
6.5x150	10	170	265
8.0x150	12	226	275
8.0x200	12	248	325



**GO-THROUGH
PHILLIPS SCREWDRIVER
WITH HEX BOLSTER**



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip
Feature | Hex Bolster for Stubborn Fasteners

Size (mm)	Size (mm)	Wt. (g)	L (mm)
#2x100	10	156	215
#2x150	10	170	265
#3x150	12	228	275
#3x200	12	248	325

ELECTRICAL SCREWDRIVER

- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- **Anti-slip cushioned grip** generates more power without slipping.
- Special design for working on electrical appliances & metal work.
- Manufactured according to IEC60900:2012.
- Tested to 10kV, suitable for working on live circuits of 1kV AC and 1.5kV DC.
- Superior life-time test.



**ELECTRICAL
SLOTTED SCREWDRIVER**



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip

Size (mm)	Wt. (g)	L (mm)
3.0x80	-	165
4.0x100	-	200
5.5x125	-	225
6.5x150	-	265



**ELECTRICAL
PHILLIPS SCREWDRIVER**



Material | Chrome Molybdenum Steel Blade
Anti-slip Cushioned Grip

Size (mm)	Wt. (g)	L (mm)
#0x75	-	156
#1x75	-	175
#2x100	-	210
#3x150	-	275

LONG ARM KEY

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Ball point hex key helps work efficiently in hard to reach areas, even near obstructions.
- Superior life-time test.

LONG ARM BALL POINT HEX KEY



Material | Chrome Vanadium Steel
Surface | Black Oxide Finish

LONG ARM TAMPER STAR KEY



Material | Chrome Vanadium Steel
Surface | Black Oxide Finish

Size (inch)	Wt. (g)	L2 (mm)	L1 (mm)
1/16	2	15	90
5/64	3	17	100
3/32	5	21	111
1/8	9	22	128
5/32	17	27	143
3/16	27	33	162
1/4	55	37	186
5/16	96	43	216
3/8	157	49	232

Size (mm)	Wt. (g)	L2 (mm)	L1 (mm)
1.5	1	15	90
2	3	17	100
2.5	5	20	113
3	8	22	128
4	17	27	142
5	30	32	162
6	49	37	184
8	98	43	204
10	172	50	230

Size (star)	Wt. (g)	L2 (mm)	L1 (mm)
TT10	6	20	93
TT15	9	21	105
TT20	12	22	115
TT25	17	25	130
TT27	24	29	145
TT30	40	34	167
TT40	60	39	184
TT45	87	44	205
TT50	122	49	227



9x Long Arm Ball Point Hex Key Set

Single Blister + Cardboard

9x Inch 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8"

9x MM 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm

9x Long Arm Tamper Star Key Set

Single Blister + Cardboard

9x Star TT10, TT15, TT20, TT25, TT27, TT30, TT40, TT45, TT50



FOLDING MAGNETIC KEY SET

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Ball point hex key helps work efficiently in hard to reach areas, even near obstructions.
- Super magnetic tip keeps fasteners removing from the spot.
- Superior life-time test.



FOLDING MAGNETIC BALL POINT HEX KEY SET



Material | Chrome Vanadium Steel Blade
Plastic Folder
Surface | Chrome Plated
Feature | Super Magnetic ball tip



Folding Magnetic Ball Point Hex Key Set

Single Blister + Cardboard

9x MM 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6mm

8x SAE 1/16", 5/64", 3/32", 1/8", 9/64", 5/32", 3/16", 1/4"

FOLDING MAGNETIC STAR KEY SET



Material | Chrome Vanadium Steel Blade
Plastic Folder
Surface | Chrome Plated
Feature | Super Magnetic tip



7x Folding Magnetic Star Key Set

Single Blister + Cardboard

7x Star T10, T15, T20, T25, T27, T30, T40

T-HANDLE MAGNETIC KEY

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Super magnetic tip keeps fasteners removing from the spot.
- Superior life-time test.



**SAE
T-HANDLE
MAGNETIC HEX
KEY**

Material | CRV Steel Blade
PVC Dip Grip
Surface | Black Oxide Finish
Feature | Super Magnetic Tip

Size (inch)	Wt. (g)	W (mm)	L (mm)
5/64	40	65	200
3/32	42	65	200
1/8	48	65	200
5/32	56	65	200
3/16	104	105	205
1/4	110	105	205
5/16	184	115	205
3/8	226	115	205

Note: 5/64" without magnetic tip



**METRIC
T-HANDLE
MAGNETIC HEX
KEY**

Material | CRV Steel Blade
PVC Dip Grip
Surface | Black Oxide Finish
Feature | Super Magnetic Tip

Size (mm)	Wt. (g)	W (mm)	L (mm)
2	40	65	200
2.5	44	65	200
3	48	65	200
4	58	65	200
5	106	105	205
6	108	105	205
8	188	115	205
10	232	115	205

Note: 2mm without magnetic tip



**T-HANDLE
MAGNETIC
STAR KEY**

Material | CRV Steel Blade
PVC Dip Grip
Surface | Black Oxide Finish
Feature | Super Magnetic Tip

Size (star)	Wt. (g)	W (mm)	L (mm)
T10	48	65	200
T15	48	65	200
T20	56	65	200
T25	58	65	200
T27	-	-	-
T30	102	105	205
T40	106	105	205
T45	182	115	205
T50	228	115	205



8x T-handle Magnetic Hex Key Set

PS Tray + Cap + POF + Color Box

8x Inch 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8"

8x MM 2, 2.5, 3, 4, 5, 6, 8, 10mm

9x T-handle Magnetic Star Key Set

PS Tray + Cap + POF + Color Box

9x Star T10, T15, T20, T25, T27, T30, T40, T45, T50

2-WAY T-HANDLE KEY

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.



**SAE 2-WAY
T-HANDLE HEX
KEY**

Material | CRV Steel Blade
PP & TPR Handle
Surface | Chrome Plated
Feature | 2 Hex Drive Ends

Size (inch)	Wt. (g)	W (mm)	L (mm)
5/64	34	83	133
3/32	36	83	143
1/8	42	83	153
5/32	60	54	166
3/16	70	54	174
1/4	123	107	196
5/16	158	107	204
3/8	209	107	212



**METRIC 2-WAY
T-HANDLE HEX
KEY**

Material | CRV Steel Blade
PP & TPR Handle
Surface | Chrome Plated
Feature | 2 Hex Drive Ends

Size (mm)	Wt. (g)	W (mm)	L (mm)
2	34	83	133
2.5	37	83	143
3	41	83	155
4	60	54	167
5	73	54	178
6	115	107	192
8	159	107	202
10	224	107	212



**2-WAY
T-HANDLE STAR
KEY**

Material | CRV Steel Blade
PP & TPR Handle
Surface | Chrome Plated
Feature | 2 Star Drive Ends

Size (star)	Wt. (g)	W (mm)	L (mm)
T8	42	83	153
T10	42	83	153
T15	42	83	153
T20	60	54	166
T25	70	54	174
T30	82	54	183
T40	123	107	196
T50	158	107	204



8x SAE 2-way T-handle Hex Key Set

Iron Holder + Color Box

8x SAE 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8"

8x Metric 2-way T-handle Hex Key Set

Iron Holder + Color Box

8x MM 2, 2.5, 3, 4, 5, 6, 8, 10mm

8x SAE 2-way T-handle Star Key Set

Iron Holder + Color Box

8x Star T8, T10, T15, T20, T25, T30, T40, T50

PLIERS & CUTTERS

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- External surface on handle designed for comfortable grip in any working condition.
- All pliers are tested to ensure clearance and Jolt free movement.
- Hardened cutting edges to ensure long life.
- Superior life-time test.

COMBINATION PLIERS

Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip

L (mm)	Wt. (g)
180	290
200	386



LONG NOSE PLIERS

Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip

L (mm)	Wt. (g)
160	170
200	256



DIAGONAL CUTTERS

Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip

L (mm)	Wt. (g)
160	136
200	284



3x 200mm Pliers & Cutters Set

PS Tray + POF + Color Box

- Content | 1x 200mm Combination Pliers
1x 200mm Long Nose Pliers
1x 200mm Diagonal Cutters



4x Mini Pliers & Cutters Set

PS Tray + POF + Color Box

- Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip
- Content | 1x 115mm Combination Pliers
1x 130mm Long Nose Pliers
1x 115mm Diagonal Cutters
1x 115mm End Cutters

PLIERS & CUTTERS

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- External surface on handle designed for comfortable grip in any working condition.
- All pliers are tested to ensure clearance and Jolt free movement.
- Hardened cutting edges to ensure long life.
- Superior life-time test.

FLUSH CUT DIAGONAL CUTTERS

Material | Carbon Steel
Dip Grip

L (mm)	Wt. (g)
150	144



CABLE CUTTERS

Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip
Feature | Maximum size 50mm²
Copper & aluminium cable only

L (mm)	Wt. (g)
200	354



ADJUSTABLE JOINT PLIERS

Material | Chrome Vanadium Steel

L (mm)	Wt. (g)
240	322



ADJUSTABLE JOINT PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Wt. (g)
200	256
250	426
300	568

150MM SAFETY WIRE TWISTING PLIERS

Material | Chrome Vanadium Steel
Weight | 252g

150MM REVERSIBLE SAFETY WIRE TWISTING PLIERS

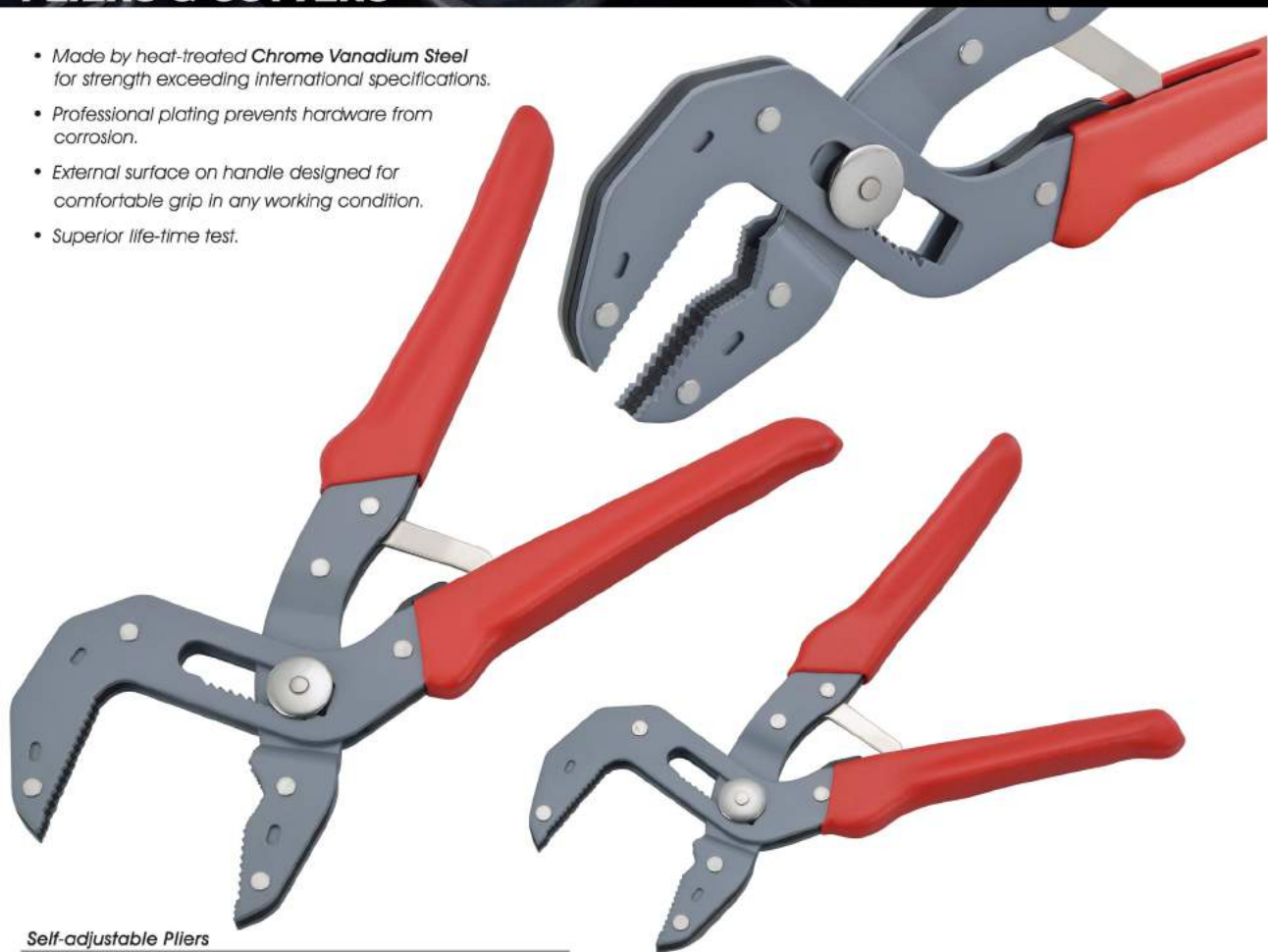
Material | Chrome Vanadium Steel
Weight | 334g



Safety Wire Twisting Pliers is also a versatile tool to help you do reliable safety wiring (lockwiring) rapidly and consistently. Safety wiring remains the most positive and assured method of securing critical fasteners that must not be allowed to back out; any tendency of the fastener to loosen is counteracted by tightening of the safety wire.

PLIERS & CUTTERS

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- External surface on handle designed for comfortable grip in any working condition.
- Superior life-time test.



Self-adjustable Pliers

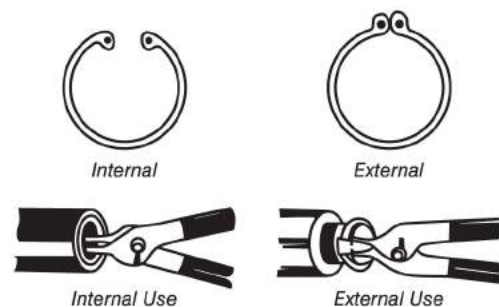
Size 7"(180mm), 10"(250mm)

Feature Jaw auto-adjust with one hand operation.

Combo straight & V-jaw will grip box, square & round objects.

Layered steel construction for added strength.

Non-slip contoured cushioned grips for comfort.



5x Circlip Pliers Set

PVC Tray + Single Blister + Cardboard

Material Chrome Vanadium Steel

Ergonomic Comfortable Grip

Content 1x Spring Loaded Handle

4x Interchangeable Heads:

Internal Straight, Internal Bent,

External Straight, External Bent



CIRCLIP PLIERS

- Designed for inserting & removing snap rings.
- Reverse tapered claw makes snap ring stable.
- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.

STRAIGHT INTERNAL CIRCLIP PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Wt. (g)
140	100
175	138
240	312



STRAIGHT EXTERNAL CIRCLIP PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Wt. (g)
140	100
175	158
240	328



BENT INTERNAL CIRCLIP PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Wt. (g)
140	96
175	138
240	316



BENT EXTERNAL CIRCLIP PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Wt. (g)
140	106
175	160
240	320



4x 140mm Circlip Pliers Set

PS Tray + POF + Color Box

Content 1x 140mm Straight Internal Circlip Pliers

1x 140mm Straight External Circlip Pliers

1x 140mm Bent Internal Circlip Pliers

1x 140mm Bent External Circlip Pliers

4x 175mm Circlip Pliers Set

PS Tray + POF + Color Box

Content 1x 175mm Straight Internal Circlip Pliers

1x 175mm Straight External Circlip Pliers

1x 175mm Bent Internal Circlip Pliers

1x 175mm Bent External Circlip Pliers

4x 240mm Circlip Pliers Set

PS Tray + POF + Color Box

Content 1x 240mm Straight Internal Circlip Pliers

1x 240mm Straight External Circlip Pliers

1x 240mm Bent Internal Circlip Pliers

1x 240mm Bent External Circlip Pliers

LONG HANDLE PLIERS

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.



LONG HANDLE PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Bent (°)	Wt. (g)
275	0°	348
275	45°	358
275	90°	354



3x Long Handle Pliers Set

PVC Tray + PVC Cap + Label

Content 1x 275mm Straight Long Handle Pliers
1x 275mm 45° Bent Long Handle Pliers
1x 275mm 90° Bent Long Handle Pliers



HOSE LONG HANDLE PLIERS

Material | Chrome Vanadium Steel
Dip Grip

L (mm)	Hose (")	Wt. (g)
275	1/2"	350
275	3/4"	346
275	15/16"	344



3x Hose Long Handle Pliers Set

PVC Tray + PVC Cap + Label

Content 1x 275mm 1/2" Hose Long Handle Pliers
1x 275mm 3/4" Hose Long Handle Pliers
1x 275mm 15/16" Hose Long Handle Pliers

LOCKING PLIERS

- Made by heat-treated Chrome Vanadium Steel for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.



CURVED JAW LOCKING PLIERS

Material | Chrome Vanadium Steel

L (mm)	Wt. (g)
125	178
175	340
250	524

STRAIGHT JAW LOCKING PLIERS

Material | Chrome Vanadium Steel

L (mm)	Wt. (g)
175	376
250	560

LONG NOSE LOCKING PLIERS

Material | Chrome Vanadium Steel

L (mm)	Wt. (g)
150	190
225	374

LARGE JAW LOCKING PLIERS

Material | Chrome Vanadium Steel

L (mm)	Wt. (g)
250	588



3x Curved Jaw Locking Pliers Set

PS Tray + POF + Color Box

Content 1x 125mm Curved Jaw Locking Pliers
1x 175mm Curved Jaw Locking Pliers
1x 250mm Curved Jaw Locking Pliers



3x Locking Pliers Set

PS Tray + POF + Color Box

Content 1x 250mm Curved Jaw Locking Pliers
1x 250mm Straight Jaw Locking Pliers
1x 250mm Long Nose Locking Pliers

STRIKING TOOL

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents hardware from corrosion.
- Superior life-time test.

BALL PEIN HAMMER HICKORY HANDLE

Material | Drop Forged Head
Hickory Handle
Feature | Induction Hardened
Striking Face

Size (oz)	Wt. (g)
8	354
12	454
16	638
24	970



DEAD BLOW HAMMER

Material | High Grip Urethane Handle
Feature | Soft Filled Canister Provides
Dead Blow Action
Non Marking Soft Face

Size (oz)	Wt. (g)
14 (1LB)	406
28 (2LB)	792
37 (2.75LB)	1022
45 (3LB)	1260



- Made by heat-treated **Chrome Molybdenum Steel** for strength exceeding international specifications.
- Professional plating prevents wrenches from corrosion.
- Superior life-time test.

COLD CHISEL

Material | Chrome Molybdenum Steel

Wide Blade (mm)	Wt. (g)	L (mm)
12	88	150
16	128	150
20	238	200
24	306	200
29	394	200



PIN PUNCH

Material | Chrome Molybdenum Steel

Diameter (mm)	Wt. (g)	L (mm)
2	32	115
3	34	125
4	66	150
5	76	165
6	124	180
8	134	180
10	146	180



WARNING:
Always wear ANSI approved safety goggles
when working with striking tools and equipment.
Always strike squarely. If any striking tool chips
or mushrooms, it should be discarded immediately.

STRIKING TOOL



5x Cold Chisel Set

Pouch + Color Box + POF

5x MM 12, 16, 20, 24, 29mm Wide Blades

7x Pin Punch Set

Pouch + Color Box + POF

7x MM 2, 3, 4, 5, 6, 8, 10mm Diameter



10x Cold Chisel & Pin Punch Set

Pouch + Color Box + POF

Content | 3x Cold Chisels: 12, 20, 24mm Wide Blades
7x Pin Punches: 2, 3, 4, 5, 6, 8, 10mm Diameter



WARNING:
Always wear ANSI approved safety goggles
when working with striking tools and equipment.
Always strike squarely. If any striking tool chips
or mushrooms, it should be discarded immediately.

STRIKING TOOL

ELECTRICAL TOOL



13x 1/4" Dr Chisel & Punch Set

Blow Mould Case + Color Sleeve + POF

Content 1x 1/4" Dr Interchangeable Handle with PVC Grip

- 3x Flat Chisels: 10, 13, 16mm Wide Blades
- 1x Cape Chisel: 4mm Wide Blade
- 3x Taper Punches: 2, 3, 4mm Diameter
- 3x Pin Punches: 3, 4, 5mm Diameter
- 2x Centre Punches: 0, 3mm Diameter



13x 3/8" Dr Chisel & Punch Set

Blow Mould Case + Color Sleeve + POF

Content 1x 3/8" Dr Interchangeable Handle with PVC Grip

- 5x Flat Chisels: 13, 16, 19, 22, 25mm Wide Blades
- 1x Cape Chisel: 6mm Wide Blade
- 2x Taper Punches: 3, 6mm Diameter
- 2x Pin Punches: 5, 6mm Diameter
- 2x Centre Punches: 3, 5mm Diameter



10x 1/2" Dr Chisel & Punch Set

Blow Mould Case + Color Sleeve + POF

Content 1x 1/2" Dr Interchangeable Handle with PVC Grip

- 3x Flat Chisels: 22, 30, 50mm Wide Blades
- 1x Mason Chisel: 50mm Wide Blade
- 1x Cape Chisel: 9mm Wide Blade
- 1x Moll Point Chisel: 0mm Wide Blade
- 2x Taper Punches: 6, 8mm Diameter
- 1x Centre Punch: 6mm Diameter



WARNING:

Always wear ANSI approved safety goggles when working with striking tools and equipment. Always strike squarely. If any striking tool chips or mushrooms, it should be discarded immediately.



Mechanics Stethoscope

Single Blister + Cardboard

Feature Earplugs to reduce interference.

Helps locate specific engine & accessory noise.
200mm alloy probe.



Adjustable Ignition Spark Tester

Single Blister + Cardboard

Feature See & hear if spark is present and test intensity.

Adjustable for any ignition system from small engine magneto to high-energy electronic (0-40,000 Volts).
Can be used to check timing with conventional ignition.



3-48V Circuit Tester

Single Blister + Cardboard

Feature Circuit tester with test lead for either passenger car or truck.

Checks circuit between 3-48 Volt.
LED display shows polarity.
Safe to use with electronics.



Post & Terminal Cleaner

Single Blister + Cardboard

Feature Easy cleaning of posts & terminals.

Internal & External Brushes.
Wire brushes remove corrosion build up on battery posts and terminal for improved electrical contact.



Battery Fluid Hydrometer

Single Blister + Cardboard

Feature Test specific gravity of battery fluid.

Floating module indicator specific gravity charge.
One piece rubber bowl.
Flexible neoprene tip.



WARNING:

Electrical tools are designed to test electrical system. These systems may have "dangerous voltage" present. Electrical tools should only be operated by experienced personnel with accredited training. The incorrect use of a multimeter could result in an electric shock which may cause serious injury or death.



Remote Starter Switch

Single Blister + Cardboard

Feature One-man operation, suitable for turning the engine over for various diagnostic tasks such as compression testing.
Connects to the starter with push button activation.
Features a connectivity LED and 1.5mtr cable.



WARNING:

Always wear ANSI approved safety goggles & gloves when using electrical tools.

ELECTRICAL TOOL

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents wire strippers from corrosion.
- External surface on handle designed for comfortable grip in any working condition.
- Superior life-time test.

CRIMPING TOOL & WIRE STRIPPERS

Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip

L (mm)	Wt. (g)	Description
225	270	4.0mm insulated & non-insulated terminal crimper
225	270	4.0mm insulated & open barrel terminal crimper



WIRE CUTTERS & STRIPPERS

Material | Chrome Vanadium Steel
Ergonomic Comfortable Grip

L (mm)	Wt. (g)	Description
175	144	ISO 5.5, 4.0, 2.5, 1.5, 1.0, 0.75mm AWG 10, 12, 14, 16, 18, 22
175	144	ISO 2.0, 1.6, 1.3, 1.0, 0.8, 0.65, 0.5mm AWG 12, 14, 16, 18, 20, 22, 24

WARNING:

Electrical tools are designed to test electrical system. These systems may have "dangerous voltage" present. Electrical tools should only be operated by experienced personnel with accredited training. The incorrect use of a multimeter could result in an electric shock which may cause serious injury or death.



WARNING:

Always wear ANSI approved safety goggles & gloves when using electrical tools.

MECHANICAL SERVICE TOOL



Compression Tester

Single Blister + Cardboard

Feature Easy Reading 2-5" gauge features colour coated quadruple calibrations 0-300psi, 21kg/cm, 21bar & 2100kpa.
13" durable rubber hose with 14mm/18mm adapter.
6" heavy-duty stem with universal rubber.
Cone adapter fits all plug holes.



Compression Tester

Single Blister + Cardboard

Feature Checks cylinder compression from 0-300psi (0 to 21kg/cm2).
Adapters fit 14 & 18mm spark plug holes and a special air-hold.
Valve is included to easily reset gauge.
Has a 12" rubber hose.



Vacuum/Fuel Pump Tester Kit

Single Blister + Cardboard

Feature Checks for leaky or defective parts in vacuum systems and mechanical pumps.



Screw Type Overhead Valve Spring Compressor

Single Blister + Cardboard

Feature Easily remove valve springs on most cars & light trucks.
Works with cylinder head on or off the engine.
The jaws grip the valve spring in parallel compression.



26x Feeler Gauge Set

Single Blister + Cardboard

Feature Straight blades 85mm long x 13mm wide.
0.0015" - 0.025" blades.
Marked with equivalent metric sizes.



12x Offset Feeler Gauge Set

Single Blister + Cardboard

Feature Offset blade for easy tappet clearance measuring.
0.008", 0.010", 0.012", 0.013", 0.014", 0.015", 0.016", 0.018", 0.019", 0.020", 0.025", 0.026" blades.
Marked with equivalent metric sizes.
Offset blades 100mm long x 13mm wide with 25mm offset tip.

MECHANICAL SERVICE TOOL

2 Arm Brake Cylinder Hone

Single Blister + Cardboard

Feature Range 13mm to 50mm.
28mm stones fitted-medium 220 grit.
Adjustable tension.
Flexible shaft.



3 Arm Brake Cylinder Hone

Single Blister + Cardboard

Feature Range 19mm to 64mm.
28mm stones fitted-medium 220 grit.
Adjustable tension.
Flexible shaft.



10x Bearing Race & Seal Driver Set

Blow Mould Case

Feature Design to allow operator to install bearing cases & seals without damage.
Ideal for installing wheel bearing outer races.
39.5mm – 81mm



Valve Collet Remover & Installer Kit

Blow Mould Case

Feature Quickly removes and installs valve collets on most overhead valve engines with valve stems from 4.5 to 7.5mm & 5/16" to 3/8".
Magnet in tool body captures collets for quick removal and valve disassembly.
Can be used on the car or bench.



Universal Bearing Packer

Single Blister + Cardboard

Feature For use with grease guns, the design incorporates grease nipple at one end which easily adapts to the grease gun coupler.
For bearings in cars, boats, trailers, 4WD's etc with a minimum inner diameter of 12mm(1/2") to a maximum outer diameter of 125mm(5") and height from 6mm(1/4") to 50mm(2").



6x Belt Tensioner Serpentine Tool Set

Single Blister + Cardboard

Feature Contains 3/8" dr Sockets 13, 15, 16, 18mm.
Essential tool for removing & installing timing belts with spring loaded idler pulleys.
Long reach design with multi-positional extension allows access deep into the engine compartment & around obstructions.

MECHANICAL SERVICE TOOL



1/2" Dr 3 Prong Oil Filter Wrench Reversible

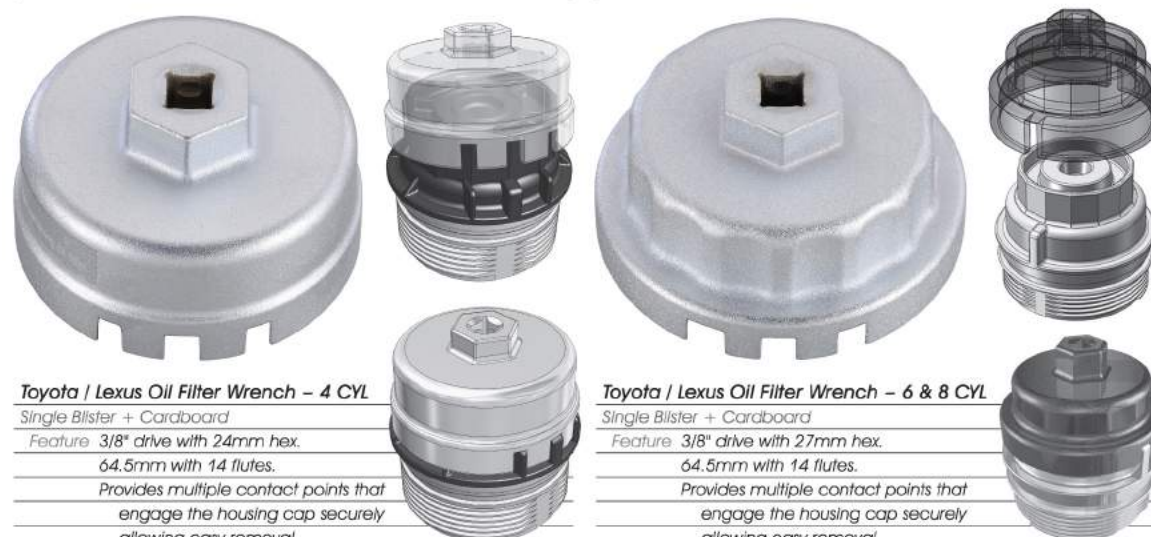
Single Blister + Cardboard

Feature Suits oil filters 60mm-100mm.
Non slip nylon strap.

3/8" Dr Spider Type 3 Prong Oil Filter Wrench

Single Blister + Cardboard

Feature Suits oil filters 58mm-95mm.
Compact design great for confined areas.



Toyota / Lexus Oil Filter Wrench - 4 CYL

Single Blister + Cardboard

Feature 3/8" drive with 24mm hex.
64.5mm with 14 flutes.
Provides multiple contact points that engage the housing cap securely allowing easy removal.
OE design and quality wrench fits Toyota and Lexus applications.
Compatible with Toyota Corolla and Prius.

Toyota / Lexus Oil Filter Wrench - 6 & 8 CYL

Single Blister + Cardboard

Feature 3/8" drive with 27mm hex.
64.5mm with 14 flutes.
Provides multiple contact points that engage the housing cap securely allowing easy removal.
OE design and quality wrench fits Toyota and Lexus applications.
Compatible with Toyota Aurion, Kluger, Landcruiser and Prado.
Compatible with Lexus GS450H, IS250 and RX350.



Oil Filter Wrench - Strap Type Car

Single Blister + Cardboard

Feature 1/2" square drive.
Suits oil filters up to 150mm.

Oil Filter Pliers

Single Blister + Cardboard

Feature Suits oil filters 55mm(2-1/8") to 125mm(5").

MECHANICAL SERVICE TOOL

Transmission Stop-off Tool

Single Blister + Cardboard

Feature Use this tool to plug the transmission shaft opening when removing the drive shaft, repairing the U-joints or performing general transmission service.
Tapered design suits most vehicles.



Drum Brake Adjusting Tools

Single Blister + Cardboard

Feature 8x130mm(5").
Easy adjustment for most applications.



Twin Hook Seal Puller

Single Blister + Cardboard

Feature Removes oil seal without damage.
Two hook sizes to fit most seal applications.



Universal Clutch Assembly Tool

Single Blister + Cardboard

Feature Design allows easy assembly of clutch whilst on work bench.
Ideal for late-model front when drive vehicles that have no pilot bearing in flywheel.
Supplied with various collars.
Not suitable for double plate clutches.



18x 3/8" Dr Oil Drain Plug Bit Socket Set

Blow Mould Case + Color Box

Feature Helps remove & replace drain plugs in hard to reach locations on differentials, gearboxes & engine sumps.

Content 6x Metric Hex: 8, 9, 10, 12, 14, 17mm
2x SAE Square: 5/16", 3/8"
7x Metric Square: 7, 8, 10, 11, 12, 13, 14mm
1x Female Square: 10mm
1x Triangle: 10mm
1x Spline: 16mm



Multi Drain Tub

Label

Feature Made from high-density polyethylene material.
Resistant to chemicals such as oil, antifreeze and solvents.
Heavy wall construction stays rigid even with hot oil.
Large handles are position to aid carrying and pouring.



Seal Removal / Installation Kit for Wick Seals

Single Blister + Cardboard

Feature Removes and installs upper rear seals without dropping the crankshaft.
Cork screw puller makes it easy to remove the old seal.
Spring steel clip grips the seal firmly as it is pulled into position.
Works on both rope and synthetic rubber material.

MICROMETER TORQUE WRENCH

- Made by heat-treated **Chrome Vanadium Steel** for strength exceeding international specifications.
- Professional plating prevents torque wrenches from corrosion.
- **Reversible switch** enables ratchet to move from either direction.
- **Socket Quick Release System** for easy socket changes.
- Specially designed for working on automotive engine and confined space.
- All torque wrenches are calibrated and tested.



Dual Scale Windows
Nm, ft/lbs



MICROMETER TORQUE WRENCH

Material | Chrome Vanadium Steel

Surface | Matt Finish

Feature | Dual Scale Windows
Ergonomic Handle

Drive (inch)	L (mm)	Description
1/4 (6.35mm)	290	5-25Nm, 3-18ft/lbs Torque
3/8 (9.5mm)	405	10-100Nm, 7.5-75ft/lbs Torque
1/2 (12.7mm)	500	20-200Nm, 15-150ft/lbs Torque
1/2 (12.7mm)	595	60-300Nm, 45-220ft/lbs Torque
3/4 (19.0mm)	970	100-550Nm, 100-600ft/lbs Torque
3/4 (19.0mm)	1150	150-750Nm, 100-700ft/lbs Torque
1" (25.4mm)	1250	200-1000Nm, 100-700ft/lbs Torque



TORQUE WRENCH SAFETY:

- Always store torque wrench in storage blow mould case.
- Always return torque wrench to minimum setting before storage.
- Have torque wrench re-calibrated by a trained professional at least once a year.
- Never mistreat torque wrench by using hammers. Extension handles or similar.



1/2" Dr Angular Torque Gauge

Single Blister + Cardboard

Feature 360° scale.

Support arm included.

Can be used for all torque-to-yield applications (particularly engine head bolts).

AUTOMOTIVE SPECIALTY TOOL

4 Jaw 610mm Pick-up Tool with Magnet

Hanger + Label
Material W/Orange Aluminium Part
Feature Flexible shaft.
Easy retrieval of small parts.
Magnetic head.



Carbide Tipped Scribe

Single Blister + Cardboard
Material Chrome Vanadium Steel Blade
Feature Fitted with pocket clip.



2x O-ring & Hook Scribe Set

Single Blister + Cardboard
Material Stainless Steel Blade
Aluminium Handle
Content Combination Pick & Hook, 90° & Straight Pick
Feature Both tools facilitate easy removal & installation of o-ring & seals.
Can also be used to retrieve small items.



4x Mini Hook & Pick Set

Pouch + Color Box + POF
Material Stainless Steel Blade
PVC Dip Grip
Content Combination Hook, 90° Pick, Straight Pick, Hook Pick



4x Extra Long Hook & Pick Set

Pouch + Color Box + POF
Material Chrome Vanadium Steel Blade
Injection Moulding Grip
Content Rubber Hook, Glass Run Cleaner, Angular Hook, Hook



2x Hose Remover Pick Set

Single Blister + Cardboard
Material Chrome Vanadium Steel Blade
Injection Moulding Grip
Feature Unique tip easily fits between hose & fitting to break stubborn hoses.
Ideal for radiator hoses, heater hoses etc.



5x Scraper & Remover Set

PVC Tray + Color Box + POF
Material Chrome Vanadium Steel Blade
Injection Moulding Grip
Content 1x 11" Multi-purpose Scraper
1x 8-1/4" Multi-purpose Scraper
1x 8" Scratch Awl
1x 9" Cotter Pin Puller
1x Radiator Hose Remover

AUTOMOTIVE SPECIALTY TOOL



2x Door Upholstery Clip Remover Set

Single Blister + Cardboard
Material Carbon Steel Blade
Injection Moulding Grip
Content 1x V-blade Clip Remover
1x U-blade Clip Remover



3x Gasket Scraper Set

Single Blister + Cardboard
Material Chrome Vanadium Steel Blade
Injection Moulding Grip
Content Blade widths: 20, 25, 40mm



3x Scraper Set

PVC Bag
Material Stainless Steel Blade
Heavy Duty Timber Handle
Content Blade Widths: 10, 15, 23mm



Windscreen Cold Knife

Single Blister + Cardboard
Material K5 knife
Aluminium Handle



4x Tweezer Set

Single Blister + Cardboard
Material Stainless Steel
Content Offset Spade End, Straight pointed End, Offset Pointed End, Self Closing Pointed End



4x Trim Removal Set

Single Blister + Cardboard
Content Ski Side, Pointer-pointe Side, Viper's Tongue-lever Side, Spreader
Feature For the removal of upholstery and trim clips.



4" Razor Scraper

Single Blister + Cardboard
Material K5 knife
PVC Coating Grip
Feature Offset scraping head & short handle are great for tight scraping jobs.
Includes one standard razor blade that stores in locked, safety position.

10x Replacement Razor Blades

Material K5 knife

AUTOMOTIVE SPECIALTY TOOL

- Made by heat-treated **Forged Alloy Steel** for strength exceeding international specifications.
- Professional plating prevents pry bars from corrosion.
- Superior life-time test.

THROUGH-HANDLE PRY BAR

Material | Chrome Molybdenum Steel Shank
Anti Slip Cushioned Grip
Surface | Black Oxide Finish
Feature | Dual-component textured handle, Texture Handle



Size	Wt. (g)	Size	Wt. (g)
1/4"x8"(L)	138	5/8"x36"(L)	1916
3/8"x12"(L)	318	7/8"x48"(L)	4760
7/16"x18"(L)	532	1"x56"(L)	6980
7/16"x24"(L)	680		

ROLLING HEAD PRY BAR

Material | Forged Alloy Steel
Surface | Black Oxide Finish
Feature | Curved Heel for Maximum Leverage
 Tapered Drift Tail for Easy Alignment



3x Rolling Head Pry Bar Set

PS Tray + PVC Cap + Color Box + POF
Material | Forged Alloy Steel
Content | 150(6"), 300(12"), 460(18")
Feature | Curved heel for maximum leverage.
 Tapered drift tail for easy alignment.



4x Pry Bar Set

PVC Tray + Color Box + POF
Material | Chrome Molybdenum Steel Shank
Injection Moulding Grip
Content | Shank Widths: 1/4"x8"(L), 3/8"x12"(L), 7/16"x18"(L), 7/16"x24"(L)

4x Through-handle Pry Bar Set

PS Tray + PVC Cap + Color Box + POF
Material | Chrome Molybdenum Steel Shank
Anti Slip Cushioned Grip
Content | Shank Widths: 1/4"x8"(L), 3/8"x12"(L), 7/16"x18"(L), 7/16"x24"(L)
Feature | Through-handle square shank with capped end.



AUTOMOTIVE SPECIALTY TOOL



152mm Super Magnetic Parts Tray

Single Blister + Cardboard
Material | Stainless Steel Tray
Powerful permanent magnet
Feature | Super magnetic trays hold both heavy tools & small irons or steel parts.
 To assist users while repairing in high or dark places.

Folding Utility Knife

Single Blister + Cardboard
Feature | Folding lock-back utility knife.
 Includes spare blades.



Windscreen Cold Knife Blades

Single Blister + Cardboard
Feature | Hardened then honed blade allows fast separation of screen from bond.
 Able to be re-sharpened.



Universal Lift Support Clamp

Single Blister + Cardboard
Feature | Holds gas charged lift supports found on hoods, tailgates, hatchbacks and trucks.
 Securely holds weak lift supports in the extended position to allow access to the engine compartment or luggage area.
 Aluminum body prevents damage from the lift support.

AUTOMOTIVE SPECIALTY TOOL

CUSTOM TOOL SET IN EVA TRAY

5x Stud Remover Set

Blow Mould Case + Color Box

Feature 6, 8, 10, 12 sockets plus 14mm x 17mm go-through ratchet wrench.

Short for tight restricted areas.



External & Internal Thread File

Single Blister + Cardboard

Size 0.80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, & 3.00mm.

TPI 11, 12, 13, 14, 15, 18, 20 & 24.

Feature Restores damaged threads.



Stud Removal & Installation Tool

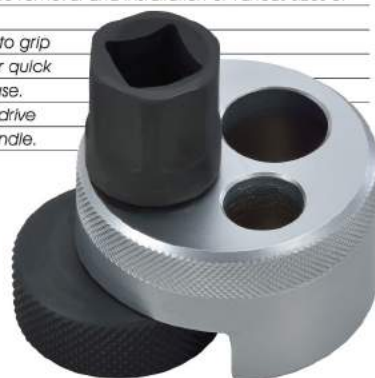
Single Blister + Cardboard

Feature Capacity 10-19mm (3/8"-3/4").

Suitable for the removal and installation of various sizes of studs.

Cam rotates to grip the stud for quick and easy use.

Use with 1/2" drive ratchet handle.



Universal Wiper Arm Removal Set

Double Blister + Card

Feature Adjustable, compact and light, easy to use.

Prevents damaging wiper arm.

Cross-piece special for wiper featuring a nozzle.



2 Jaw Reversible Gear Pullers

Double Blister + Card

Material Chrome Vanadium Steel

Size 75mm, 100mm, 150mm, 200mm

Feature Twin hole reversible arms.

Centre screw with swivel tip.



3 Jaw Reversible Gear Pullers

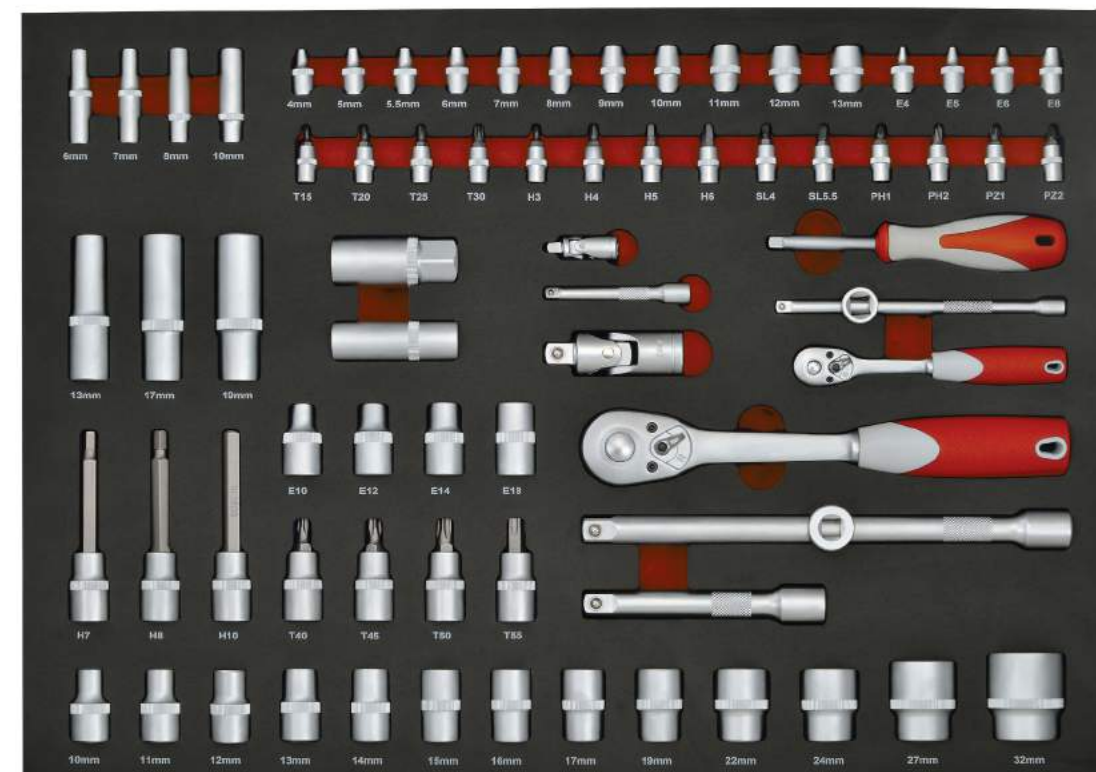
Double Blister + Card

Material Chrome Vanadium Steel

Size 75mm, 100mm, 150mm, 200mm

Feature Twin hole reversible arms.

Centre screw with swivel tip.



73x 1/4" Dr & 1/2" Dr Metric Socket Set

EVA Tray + POF + Carton

Content 13x 1/2" Dr Metric Sockets: (6PT)

10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24, 27, 32mm

3x 1/2" Dr Metric Deep Sockets: (6PT)

13, 17, 19mm

4x 1/2" Dr Star Sockets: E10, E12, E14, E18

4x 1/2" Dr 55mm(L) Star Bit Sockets: T40, T45, T50, T55

3x 1/2" Dr 100mm(L) Hex Bit Sockets: H7, H8, H10

1x 1/2" Dr 36T Ratchet Handle

2x 1/2" Dr Extension Bars: 125, 250mm

1x 3/8F x 1/2M 3 Way Adapter

2x 1/2" Dr Spark Plug Sockets: 16, 21mm

1x 1/4" Dr Universal Joint

11x 1/4" Dr Metric Sockets: (6PT)

4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm

4x 1/4" Dr Metric Deep Sockets: (6PT)

6, 7, 8, 10mm

4x 1/4" Dr Star Sockets: E4, E5, E6, E8

4x 1/4" Dr Hex Bit Sockets: H3, H4, H5, H6

4x 1/4" Dr Star Bit Sockets: T15, T20, T25, T30

2x 1/4" Dr Slotted Bit Sockets: SL4, SL5.5

2x 1/4" Dr Phillips Bit Sockets: PH1, PH2

2x 1/4" Dr Pozl Bit Sockets: PZ1, PZ2

1x 1/4" Dr 20T Ratchet Handle

2x 1/4" Dr Extension Bars: 50, 100mm

1x 3/8F x 1/4M 3 Way Adapter

1x 1/4" Dr Universal Joint

1x 1/4" Dr Spinner Handle



RATCHET HANDLE

Material | Chrome Vanadium Steel

Surface | Mirror / Matt / Micro Satin / Color Electro-deposition Finish

Feature | TPV & PP Handle

Drive (inch)	Teeth	Space	Wt. (g)	L (mm)
1/4 (6.35mm)	20	18°	104	144
3/8 (9.5mm)	30	12°	256	202
1/2 (12.7mm)	36	10°	562	255

WITH OR WITHOUT
A.N.S.I.
STANDARDS
DIN
STANDARDS



Reversible switch enables ratchet handle to move from either direction.



18° space requirement for each turn.

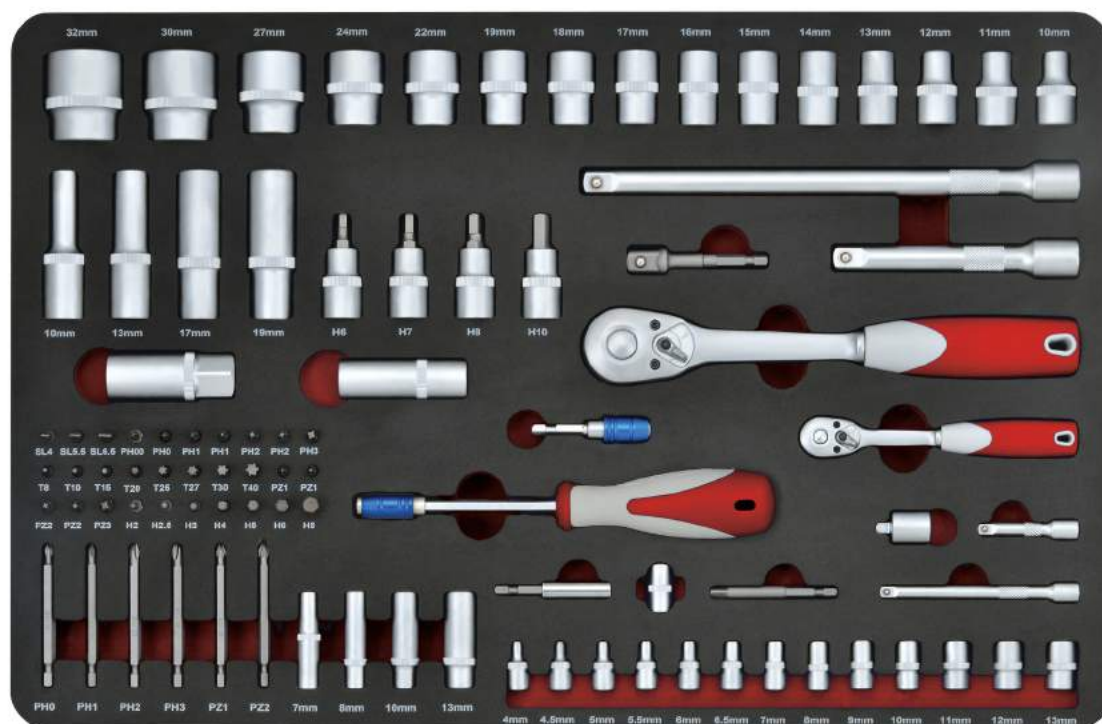


12° space requirement for each turn.



10° space requirement for each turn.

CUSTOM TOOL SET IN METAL CASE



91x 1/2" Dr & 1/4" Dr Metric Socket Set

EVA Tray + POF + Metal Case + Color Sleeve + POF

Content 15x 1/2" Dr Metric Sockets: (6PT)

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32mm

4x 1/2" Dr Metric Deep Sockets: (6PT)

10, 13, 17, 19mm

4x 1/2" Dr Hex Bit Sockets: H6, H7, H8, H10

1x 1/2" Dr 36T Ratchet Handle

2x 1/2" Dr Extension Bars: 125, 250mm

2x 1/2" Dr Spark Plug Sockets: 16, 21mm

13x 1/4" Dr Metric Sockets: (6PT)

4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13mm

4x 1/4" Dr Metric Deep Sockets: (6PT)

7, 8, 10, 13mm

1x 1/4" Dr 20T Ratchet Handle

2x 1/4" Dr Extension Bars: 50, 100mm

1x 3/8F x 1/4M 3 Way Adapter

1x 1/4" Hex Quick Release Bit Handle

1x 1/4" Hex Quick Release Bit Holder

1x 1/4" Hex Magnetic Bit Holder

2x Bit Adapters: 64mm(L) 1/4" Hex x 1/4" Dr,

72mm(L) 1/4" Hex x 1/2" Dr

1x 1/4" Dr x 1/4" Hex Coupler

30x 1/4" Hex 1"(L) Bits

7x Hex: H2, H2.5, H3, H4, H5, H6, H8

8x Star: T8, T10, T15, T20, T25, T27, T30, T40

3x Slotted: SL4, SL5.5, SL6.5

7x Phillips: PH00, PH0, PH1(x2), PH2(x2), PH3

5x Poz: PZ1(x2), PZ2(x2), PZ3

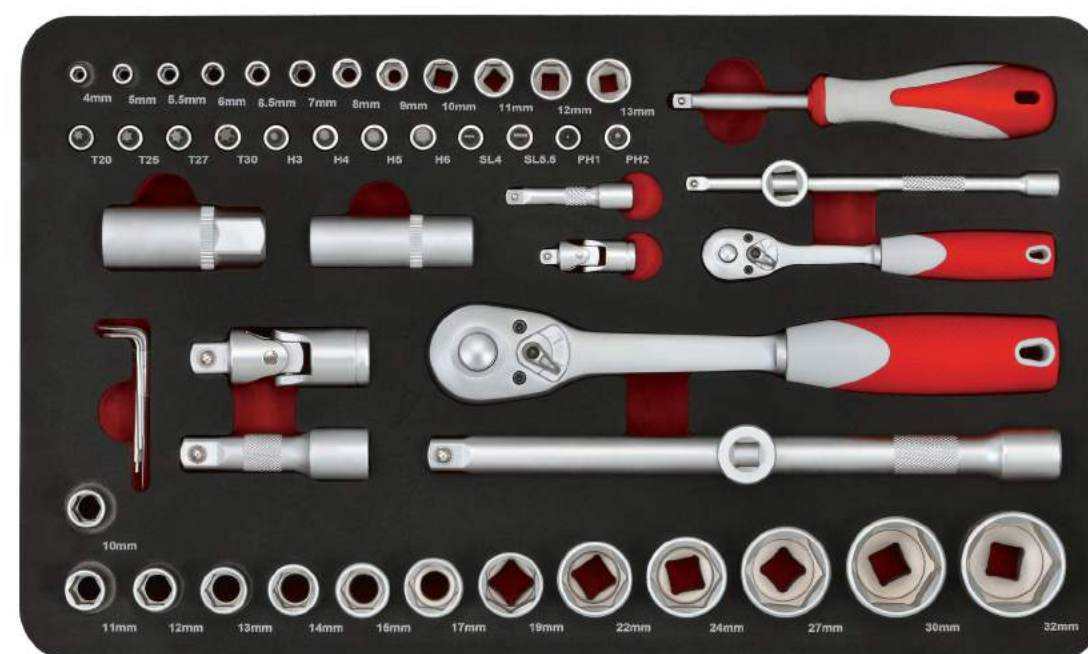
6x 1/4" Hex 3"(L) Bits

4x Phillips: PH0, PH1, PH2, PH3

2x Poz: PZ1, PZ2



CUSTOM TOOL SET IN METAL CASE



55x 1/2" Dr & 1/4" Dr Metric Socket Set

EVA Tray + POF + Metal Case + Color Sleeve + POF

13x 1/2" Dr Metric Sockets: (6PT)

Content 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24, 27, 32mm

1x 1/2" Dr 36T Ratchet Handle

2x 1/2" Dr Extension Bars: 75, 250mm

1x 3/8F x 1/2M 3 Way Adapter

2x 1/2" Dr Spark Plug Sockets: 16, 21mm

1x 1/4" Dr Universal Joint

12x 1/4" Dr Metric Sockets: (6PT)

4, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13mm

4x 1/4" Dr Hex Bit Sockets: H3, H4, H5, H6

4x 1/4" Dr Star Bit Sockets: T20, T25, T27, T30

2x 1/4" Dr Slotted Bit Sockets: SL4, SL5.5

2x 1/4" Dr Phillips Bit Sockets: PH1, PH2

1x 1/4" Dr 20T Ratchet Handle

2x 1/4" Dr Extension Bars: 50, 150mm

1x 3/8F x 1/4M 3 Way Adapter

1x 1/4" Dr Universal Joint

1x 1/4" Dr Spinner Handle

5x Hex Keys: 1.3, 1.5, 2, 2.5, 3mm



CUSTOM TOOL SET IN METAL CASE



61x 1/4" Dr Metric Socket Set

EVA Tray + POF + Metal Case + Color Sleeve + POF

Content 13x 1/4" Dr Metric Sockets: (6PT)

4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13mm

4x 1/4" Dr Metric Deep Sockets: (6PT)

7, 8, 10, 13mm

1x 1/4" Dr 20T Ratchet Handle

2x 1/4" Dr Extension Bars: 50, 100mm

1x 3/8F x 1/4M 3 Way Adapter

1x 1/4" Hex Quick Release Bit Handle

1x 1/4" Hex Magnetic Bit Holder

1x 64mm(L) 1/4" Hex x 1/4" Dr Bit Adapter

1x 1/4" Dr x 1/4" Hex Coupler

30x 1/4" Hex 1"(L) Bits

7x Hex: H2, H2.5, H3, H4, H5, H6, H8

8x Star: T8, T10, T15, T20, T25, T27, T30, T40

3x Slotted: SL4, SL5.5, SL6.5

7x Phillips: PH00, PH0, PH1(x2), PH2(x2), PH3

5x Pozl: PZ1(x2), PZ2(x2), PZ3

6x 1/4" Hex 3"(L) Bits

4x Phillips: PH0, PH1, PH2, PH3

2x Pozl: PZ1, PZ2



36x 1/4" Dr Metric Socket Set

EVA Tray + POF + Metal Case + Color Sleeve + POF

Content 12x 1/4" Dr Metric Sockets: (6PT)

4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm

4x 1/4" Dr Hex Bit Sockets: H3, H4, H5, H6

6x 1/4" Dr Star Bit Sockets: T10, T15, T20, T25, T30, T40

2x 1/4" Dr Slotted Bit Sockets: SL4, SL5.5

3x 1/4" Dr Phillips Bit Sockets: PH1, PH2, PH3

3x 1/4" Dr Pozl Bit Sockets: PZ1, PZ2, PZ3

1x 1/4" Dr 20T Ratchet Handle

2x 1/4" Dr Extension Bars: 50, 150mm

1x 3/8F x 1/4M 3 Way Adapter

1x 1/4" Dr Universal Joint

1x 1/4" Hex Quick Release Bit Handle



CUSTOM TOOL SET IN METAL CASE



20x 3/8" Dr Metric Socket Set

EVA Tray + POF + Metal Case + Color Sleeve + POF

14x 3/8" Dr Metric Sockets: (6PT)

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22mm

1x 3/8" Dr 30T Ratchet Handle

3x 3/8" Dr Extension Bars: 75, 125, 250mm

1x 1/2F x 3/8M 3 Way Adapter

1x 3/8" Dr Universal Joint



27x 1/2" Dr Metric Socket Set

EVA Tray + POF + Metal Case + Color Sleeve + POF

16x 1/2" Dr Metric Sockets: (6PT)

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24,

27, 30, 32mm

3x 1/2" Dr Metric Deep Sockets: (6PT)

13, 17, 19mm

1x 1/2" Dr 36T Ratchet Handle

3x 1/2" Dr Extension Bars: 75, 125, 250mm

1x 3/8F x 1/2M 3 Way Adapter

2x 1/2" Dr Spark Plug Sockets: 16, 21mm

1x 1/2" Dr Universal Joint



CUSTOM TOOL SET IN METAL CASE

15x 1/4" Dr Metric Socket Set

Metal Case + PS Tray + Color Box + POF

Content 12x 1/4" Dr Metric Sockets: (6PT)

4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm

1x 1/4" Dr 72T Ratchet T-handle

1x 1/4" Dr 72T Palm Ratchet

1x 1/4" Dr 195-320mm Extendable

Extension Bar



PALM RATCHET

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | Chrome Vanadium Steel
Feature | 72 Teeth

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	48	48.5



RATCHET T-HANDLE

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish
Feature | 72 Teeth

Drive (inch)	Wt. (g)	L (mm)
1/4 (6.35mm)	156	133

EXTENDABLE WOBBLE EXTENSION BAR

MEETS OR EXCEEDS
A.N.S.I. DIN
STANDARDS STANDARDS

Material | Chrome Vanadium Steel
Surface | Mirror / Matt / Micro Satin Finish

Drive (inch)	Wt. (g)	Min L (mm)	Locking Position	Max L (mm)
1/4 (6.35mm)	196	195	5	320

CUSTOM TOOL SET IN METAL CASE

60x 1/2" Dr Metric Socket Set

Metal Case + PS Tray + POF

Content 18x 1/2" Dr Metric Sockets: (12PT)

8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32mm

1x 1/2" Dr 72T Ratchet Handle

1x 1/2" Dr Sliding T-bar

1x 1/2" Dr Universal Joint

2x 1/2" Dr Extension Bars: 125, 250mm

1x 1/2" Dr 21mm Spark Plug Socket

17x German-type Combination Wrenches:

6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24mm

9x Ball Point Hex Keys: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm

3x Slotted Screwdrivers: 5.5x100mm, 6.5x150mm, 8.0x200mm

3x Phillips Screwdrivers: #1x75mm, #2x100mm, #3x150mm

1x Combination Pliers

1x Long Nose Pliers

1x Diagonal Cutters



CUSTOM TOOL SET IN BLOW MOULD CASE



35x 1/4" Dr Metric Socket Set

Blow Mould Case + Color Box + POF

Content 13x 1/4" Dr Metric Sockets: (6PT)

- 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm
- 8x 1/4" Dr Metric Deep Sockets: (6PT)
- 6, 7, 8, 9, 10, 11, 12, 13mm
- 5x 1/4" Dr Star Sockets:
- E4, E5, E6, E7, E8
- 1x 1/4" Dr 72T Ratchet Handle
- 1x 1/4" Dr Sliding T-bar
- 2x 1/4" Dr Extension Bars: 50, 100mm
- 1x 1/4" Dr Universal Joint
- 1x 1/4" Dr Spinner Handle
- 3x Hex Keys: 1.5, 2, 2.5mm

58x 1/4" Dr Metric Socket Set

Blow Mould Case + Color Box + POF

Content 13x 1/4" Dr Metric Sockets: (6PT)

- 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm
- 8x 1/4" Dr Metric Deep Sockets: (6PT)
- 6, 7, 8, 9, 10, 11, 12, 13mm
- 5x 1/4" Dr Star Sockets:
- E4, E5, E6, E7, E8
- 4x 1/4" Dr Hex Bit Sockets: H3, H4, H5, H6
- 7x 1/4" Dr Star Bit Sockets: T8, T10, T15, T20, T25, T27, T30
- 5x 1/4" Dr Slotted Bit Sockets: SL4, SL5.5, SL6, SL6.5, SL7
- 3x 1/4" Dr Phillips Bit Sockets: PH0, PH1, PH2
- 3x 1/4" Dr Pozzi Bit Sockets: PZ0, PZ1, PZ2
- 1x 1/4" Dr 72T Ratchet Handle
- 1x 1/4" Dr Sliding T-bar
- 2x 1/4" Dr Extension Bars: 50, 100mm
- 1x 1/4" Dr Universal Joint
- 1x 1/4" Dr Spinner Handle
- 3x Hex Keys: 1.5, 2, 2.5mm

102x 1/4" & 3/8" Dr SAE/Metric Socket Set

Blow Mould Case + Color Box

Content 14x 1/4" Dr SAE/Metric Easy Read Sockets: (6PT)

- 7x SAE: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"
- 7x Metric: 5, 6, 7, 8, 9, 10, 11mm
- 12x 3/8" Dr SAE/Metric Easy Read Sockets: (12PT)
- 6x SAE: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 6x Metric: 12, 13, 14, 15, 17, 18mm
- 8x 3/8" Dr SAE/Metric Easy Read Deep Sockets: (6PT)
- 4x SAE: 1/2", 9/16", 11/16", 3/4"
- 4x Metric: 13, 14, 15, 17mm
- 3x Socket Rails
- 1x 3/8" Dr 72T Ratchet Handle
- 1x 3/8" Dr 150mm Extension Bar
- 2x 3/8" Dr Spark Plug Sockets: 5/8", 13/16"
- 1x 3/8F x 1/4M Adapter
- 1x 1/4" Dr Spinner Handle
- 1x 1/4" Dr x 1/4" Hex Coupler
- 30x 1/4" Hex 1"(L) Bits
- 10x Hex: H3/32", H1/8", H5/32", H3/16", H7/32", H2, H3, H4, H5, H6
- 7x Star: T10, T15, T20, T25, T27, T30, T40
- 3x Slotted: 3/16", 1/4", 9/32"
- 4x Phillips: PH0, PH1, PH2, PH3
- 2x Pozzi: PZ1, PZ2
- 4x Square: S0, S1, S2, S3
- 5x 1/4" Hex Nut/Drive Bits: 1/4", 5/16", 3/8", 10, 12mm
- 4x Bits Holders
- 7x Folding Hex Key Set:
- 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
- 6x Combination Wrenches: 1/2", 9/16", 5/8", 13, 14, 15mm
- 1x 150mm Adjustable Wrench
- 1x 150mm Long Nose Pliers
- 1x Tire Gauge
- 1x Circuit Tester
- 1x Working Light
- 1x Blow Mould Case



CUSTOM TOOL SET IN BLOW MOULD CASE



76x 3/8" Dr SAE/Metric Socket Set

Blow Mould Case + Color Box

Content 14x 1/4" Dr SAE/Metric Easy Read Sockets: (6PT)

- 7x SAE: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"
- 7x Metric: 5, 6, 7, 8, 9, 10, 11mm
- 12x 3/8" Dr SAE/Metric Easy Read Sockets: (12PT)
- 6x SAE: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 6x Metric: 12, 13, 14, 15, 17, 18mm
- 2x Socket Rails
- 1x 3/8" Dr 72T Ratchet Handle
- 1x 3/8" Dr 150mm Extension Bar
- 2x 3/8" Dr Spark Plug Sockets: 5/8", 13/16"
- 1x 3/8F x 1/4M Adapter
- 1x 1/4" Dr Spinner Handle
- 1x 1/4" Dr x 1/4" Hex Coupler
- 30x 1/4" Hex 1"(L) Bits
- 10x Hex: H3/32", H1/8", H5/32", H3/16", H7/32", H2, H3, H4, H5, H6
- 7x Star: T10, T15, T20, T25, T27, T30, T40
- 3x Slotted: 3/16", 1/4", 9/32"
- 4x Phillips: PH0, PH1, PH2, PH3
- 2x Pozzi: PZ1, PZ2
- 4x Square: S0, S1, S2, S3
- 3x Bits Holders
- 7x Folding Hex Key Set:
- 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
- 1x Blow Mould Case

88x 3/8" Dr SAE/Metric Socket Set

Blow Mould Case + Color Box

Content 14x 1/4" Dr SAE/Metric Easy Read Sockets: (6PT)

- 7x SAE: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"
- 7x Metric: 5, 6, 7, 8, 9, 10, 11mm
- 12x 3/8" Dr SAE/Metric Easy Read Sockets: (12PT)
- 6x SAE: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- 6x Metric: 12, 13, 14, 15, 17, 18mm
- 2x Socket Rails
- 1x 3/8" Dr 72T Ratchet Handle
- 1x 3/8" Dr 75mm Extension Bar
- 1x 3/8" Dr 5/8" Spark Plug Socket
- 1x 3/8F x 1/4M Adapter
- 1x 1/4" Dr Spinner Handle
- 1x 1/4" Dr x 1/4" Hex Coupler
- 30x 1/4" Hex 1"(L) Bits
- 10x Hex: H3/32", H1/8", H5/32", H3/16", H7/32", H2, H3, H4, H5, H6
- 7x Star: T10, T15, T20, T25, T27, T30, T40
- 3x Slotted: 3/16", 1/4", 9/32"
- 4x Phillips: PH0, PH1, PH2, PH3
- 2x Pozzi: PZ1, PZ2
- 4x Square: S0, S1, S2, S3
- 3x Bits Holders
- 7x Folding Hex Key Set:
- 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
- 6x Combination Wrenches: 1/2", 9/16", 5/8", 13, 14, 15mm
- 1x Wrench Holder
- 1x 5M/16FT Measuring Tape
- 1x 16 OZ Claw Hammer Fiber Glass Handle
- 1x Utility Knife W/Rubber Grip
- 1x Safety Glass
- 1x 150mm Adjustable Wrench
- 1x 150mm Long Nose Pliers
- 1x Blow Mould Case



CUSTOM TOOL SET IN BLOW MOULD CASE



93x 3/8" Dr SAE/Metric Socket Set

Blow Mould Case + Color Box

Content 14x 1/4" Dr SAE/Metric Easy Read Sockets: (6PT)
 7x SAE: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"
 7x Metric: 5, 6, 7, 8, 9, 10, 11mm
 12x 3/8" Dr SAE/Metric Easy Read Sockets: (12PT)
 6x SAE: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
 6x Metric: 12, 13, 14, 15, 17, 18mm
 8x 3/8" Dr SAE/Metric Easy Read Sockets: (6PT)
 4x SAE: 1/2", 9/16", 11/16", 3/4"
 4x Metric: 13, 14, 15, 17mm
 3x Socket Rails
 1x 3/8" Dr 72T Ratchet Handle
 1x 3/8" Dr 150mm Extension Bar
 2x 3/8" Dr Spark Plug Sockets: 5/8", 13/16"
 1x 3/8" x 1/4" Adapter
 1x 1/4" Dr Spinner Handle
 1x 1/4" Dr x 1/4" Hex Coupler
 30x 1/4" Hex 1"(L) Bits
 10x Hex: H3/32", H1/8", H5/32", H3/16", H7/32",
 H2, H3, H4, H5, H6
 7x Star: T10, T15, T20, T25, T27, T30, T40
 3x Slotted: 3/16", 1/4", 9/32"
 4x Phillips: PH0, PH1, PH2, PH3
 2x Poz: PZ1, PZ2
 4x Square: S0, S1, S2, S3
 3x Bits Holders
 14x Folding Hex Key Set:
 7x SAE: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
 7x Metric: 1.5, 2, 2.5, 3, 4, 5, 6mm
 1x 100mm Magnetic Tray
 1x Blow Mould Case

101x 1/4" & 3/8" Dr SAE/Metric Socket Set

Blow Mould Case + Color Box

Content 28x 1/4" Dr SAE/Metric Sockets: (6PT)
 14x SAE: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8",
 13/32", 7/16", 15/32", 1/2", 17/32", 9/16"
 14x Metric: 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13,
 14mm
 17x 3/8" Dr SAE/Metric Sockets: (6PT)
 7x SAE: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
 10x Metric: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
 8x 3/8" Dr SAE/Metric Easy Read Sockets: (6PT)
 4x SAE: 1/2", 9/16", 11/16", 3/4"
 4x Metric: 13, 14, 15, 17mm
 3x 1/4" Dr Sockets: (8PT) 1/4", 5/16", 3/8"
 1x 3/8" Dr 48T Ratchet Handle
 1x 3/8" Dr 75mm Extension Bar
 2x 3/8" Dr Spark Plug Sockets: 5/8", 13/16"
 1x 3/8" x 1/4" Adapter
 1x 1/4" Dr Spinner Handle
 1x 1/4" Dr x 1/4" Hex Coupler
 22x 1/4" Hex 1"(L) Bits
 7x Star: T10, T15, T20, T25, T27, T30, T40
 5x Slotted: 1/8", 5/32", 3/16", 1/4", 9/32"
 7x Phillips: PH0, PH1, PH2(4x), PH3
 3x Square: S1, S2, S3
 11x Hex Keys: 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64",
 5/32", 3/16", 7/32", 1/4"
 12x Combination Wrenches:
 6x SAE: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8"
 6x Metric: 8, 10, 11, 12, 14, 15mm
 1x Blow Mould Case



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