



**PRODUCT
CATALOGUE**



HECTOR
tough enough

Company Introduction

Hector tools is a young company established in 2016 in London – England, its business is the manufacturing and trading of hand tools suitable for building, construction, carpentry, gardening and heavy machinery maintenance.

Hector has a wide and versatile products range; our product portfolio covers hand tools such as: Screwdrivers, Pliers, Drill bits, Wrenches, Meters, Riveters, Staple guns, Hammers, Chisels, Vices, Clamps, Aviation snips, Gloves and other small tools.

Hector products are manufactured up to international standards with unbeatable quality, each product is professionally crafted and manufactured with the objective of providing our end costumers with high quality and value for money tools that suits their needs.

Hector also has a strong base of distributors in the MEA region dedicated to serving our existing and potential clients.

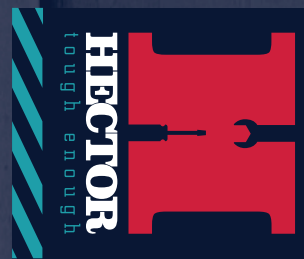
Hector vision is to be the mentor to all its customers, consequently it offers them the best merge between maintenance and craftsmanship tools accompanied by the guidance of our expert sales team during the purchase process and afterwards; thus giving the customer the optimum results with less time and investment.

Our mission is guiding our customers to get the superior outcome they strive for in their business by providing the best tool and enlightening our consumer with their ideal application.

As a mentor, Hector values revolve around understanding current requirements of its customers and predicting future needs, and works continuously to update and modernize its range to suit their growing businesses through more efficient tools.



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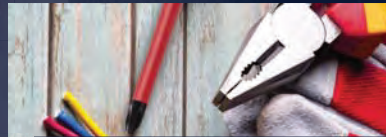
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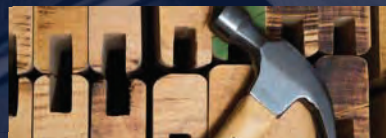
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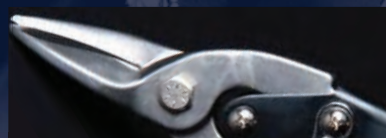
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Screwdrivers



Screwdrivers are one of the most important tools you can use in your day to day work. That's why Hector screwdrivers are made from the ideal steel grade and have a tip hardened to resist wear while the handle is designed to improve grip and prevent the tool from rolling.

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DID YOU KNOW?

Did You Know About Hector Screwdrivers Features ?

1-Bar and Tip

- Magnetic, Black Tip for secure grip on fasteners.
- (S2): super hardened silicon alloy steel for unmatched durability with high shock resistance due to the existence of carbon in high percentage.
- (CR-V): high quality chrome-vanadium alloy steel incorporating carbon, chromium, vanadium and other elements. Chromium and vanadium both increase the steel harden ability. Chrome-plated bar also helps resist abrasion, oxidation, and corrosion. Chromium and carbon can both improve elasticity.
- All blades are made of high-grade, special hard alloy steel, extreme wear resistance, productive and long tool life.

2 -Handle

- Manufactured from PP and TPR (Thermoplastic Rubber).
- Impact resistance, slip resistance, oil and grease resistance.
- The largest diameter zones of this handle are also made of hard polypropylene, for low friction rotation in the hand.
- When applying high levels of torque, the screwdriver has a soft zone that serves as a cushion for the hand.
- Ergonomic design so the handle not only prevents calluses and blisters, but also avoids putting too much strain on the hand-arm system.

Did You Know That Screwdrivers Have Other Usages Than Only Turnings Screws?

There are specific types of screwdrivers that are designed whereby a hammer is used on it to pry, chisel, punch or lever; it is called "GO-THRU screwdriver". This screwdriver usually has a metal cap at the opposite side of the bit to ensure accurate and sturdy results.



Did you know that screwdrivers can have options?

A screwdriver equipped with a robust Hex bolster allow the use of a wrench for additional torque.



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Tips To Pick The Best Screwdriver



1- Choose the tip you need

Slotted

You can get the best control on the screw by choosing the tip that matches the width of the screw slot, if it's too wide it may damage the work and if it's too narrow it may damage the screw slot.

Slotted screwdrivers have either Flared tip which is the most common, or Parallel if you want to drive the screw under the surface because it won't cause any damage to the surface you're working on.

Phillips and Pozidriv

The Phillips system was created with the objective of preventing assemblers from tightening screws thus the driver slips out before that happens.

Contrary the Pozidriv screw head doesn't slip out so great torque can be applied.

Torx Robertson

Most commonly used in machines, trucks and automobiles because it's the strongest and has the most wear resistant screw. Also the screw head doesn't slip out because the walls of the recess are not tapered.

2 - Choose the bar length

Choose the proper length of the bar for your needs, for example the short bar is easier to control than the long bar but the long bar can easily reach screws in difficult places unlike the short bar.

Slotted Screwdriver



Application	High torque soft grip screwdriver for Slotted screws.
Blade	Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability.
Tip	Fit black tip, magnetized.
Handle	Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque needed for driving screws.

Part no.	mm	mm	Ømm	mm	mm	g
D021	0.5	3.0	3.0	75	82x25.5	29
D031	0.5	3.0	3.0	100	82x25.5	31
D041	0.5	3.0	3.0	150	82x25.5	35
D051	0.8	4.0	4.0	100	82x25.5	36
D032	1.0	5.5	5.0	75	97.5x32.5	57
D042	1.0	5.5	5.0	100	97.5x32.5	61
D052	1.0	5.5	5.0	125	97.5x32.5	65
D062	1.0	5.5	5.0	150	97.5x32.5	68
D030	1.2	6.5	6.0	100	106.5x36	85
D040	1.2	6.5	6.0	125	106.5x36	92
D050	1.2	6.5	6.0	150	106.5x36	99
D060	1.2	6.5	6.0	200	106.5x36	108
D023	1.6	8.0	8.0	150	114.5x39	142
D033	1.6	8.0	8.0	200	114.5x39	163
D022	1.0	5.5	5.0	38	60x34.5	44
D020	1.2	6.5	6.0	38	60x34.5	44



Phillips Screwdriver



Application	High torque soft grip screwdriver for Phillips screws.
Blade	Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability.
Tip	Fit black tip, magnetized .
Handle	Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque needed for driving screws.

Part no.	+	Ømm	mm	mm	g
D101	PH0	3.0	75	82x25.5	29
D111	PH0	3.0	100	82x25.5	31
D121	PH0	3.0	150	82x25.5	35
D131	PH1	4.0	100	82x25.5	36
D102	PH1	5.0	75	97.5x32.5	57
D112	PH1	5.0	100	97.5x32.5	61
D122	PH1	5.0	125	97.5x32.5	65
D132	PH1	5.0	150	97.5x32.5	68
D110	PH2	6.0	100	106.5x36	85
D120	PH2	6.0	125	106.5x36	92
D100	PH2	6.0	150	106.5x36	99
D130	PH2	6.0	200	106.5x36	108
D103	PH3	8.0	150	114.5x39	142
D113	PH3	8.0	200	114.5x39	163
D142	PH1	5.0	38	60x34.5	44
D140	PH2	6.0	38	60x34.5	44



Torx Screwdriver



- Application** High torque soft grip screwdriver for Torx screws.
- Blade** Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability.
- Tip** Fit black tip, magnetized.
- Handle** Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque.

Part no.		\varnothing mm			
D500	T-7	3.0	75	82x25.5	29
D510	T-8	3.0	75	82x25.5	29
D520	T-9	3.0	75	82x25.5	29
D501	T-10	5.0	100	97.5x32.5	61
D511	T-15	5.0	100	97.5x32.5	61
D521	T-20	5.0	100	97.5x32.5	61
D502	T-25	6.0	100	106.5x36	85
D512	T-27	6.0	100	106.5x36	85
D522	T-30	6.0	100	106.5x36	85
D503	T-40	8.0	125	114.5x39	130



Pozidriv Screwdriver



- Application** High torque soft grip screwdriver for Pozi screws.
- Blade** Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability.
- Tip** Fit black tip, magnetized.
- Handle** Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque.






Part no.		\varnothing mm			
D300	Pz0	3.0	75	82x25.5	29
D301	Pz1	5.0	100	97.5x32.5	61
D302	Pz2	6.0	100	106.5x36	85
D303	Pz3	8.0	150	114.5x39	142



Robertson Screwdriver



- Application** High torque soft grip screwdriver for Robertson screws.
- Blade** Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability.
- Tip** Fit black tip, magnetized.
- Handle** Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque.

Part no.		 mm	 mm	 mm	 g
D400	S-0	5.0	100	97.5x32.5	61
D410	S-1	5.0	100	97.5x32.5	61
D401	S-2	6.0	100	106.5x36	85
D411	S-3	6.0	100	106.5x36	85



GO-THRU Slotted Screwdriver



Application	High torque soft grip GO-THRU screwdriver for Slotted screws.
Blade	Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability. Bar transfers strike force from cap to tip, can be hit on cap with hammer for extra tough screws.
Tip	Fit black tip, magnetized.
Handle	Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque needed for driving screws.

Part no.	mm	mm	Ømm	mm	mm	g
D025	0.5	3.0	3.0	75	82x25.5	52
D035	0.5	3.0	3.0	100	82x25.5	54
D045	0.5	3.0	3.0	150	82x25.5	58
D055	0.8	4.0	4.0	100	82x25.5	59
D036	1.0	5.5	5.0	75	97.5x32.5	80
D046	1.0	5.5	5.0	100	97.5x32.5	84
D056	1.0	5.5	5.0	125	97.5x32.5	88
D066	1.0	5.5	5.0	150	97.5x32.5	91
D034	1.2	6.5	6.0	100	106.5x36	108
D044	1.2	6.5	6.0	125	106.5x36	115
D054	1.2	6.5	6.0	150	106.5x36	122
D064	1.2	6.5	6.0	200	106.5x36	131
D027	1.6	8.0	8.0	150	114.5x39	165
D037	1.6	8.0	8.0	200	114.5x39	186
D026	1.0	5.5	5.0	38	60x34.5	67
D024	1.2	6.5	6.0	38	60x34.5	67



GO-THRU Phillips Screwdriver



Application	High torque soft grip GO-THRU screwdriver for Phillips screws.
Blade	Round blade hard alloy, super hardened silicon alloy steel (S2) with unmatched durability. Bar transfers strike force from cap to tip, can be hit on cap with hammer for extra tough screws.
Tip	Fit black tip, magnetized.
Handle	Ergonomic design avoids too much strain on the hand arm system; large diameter handle offers greater torque needed for driving screws.

Part no.	+	Ømm	mm	mm	g
D105	PH0	3.0	75	82x25.5	52
D115	PH0	3.0	100	82x25.5	54
D125	PH0	3.0	150	82x25.5	58
D135	PH1	4.0	100	82x25.5	59
D106	PH1	5.0	75	97.5x32.5	80
D116	PH1	5.0	100	97.5x32.5	84
D126	PH1	5.0	125	97.5x32.5	88
D136	PH1	5.0	150	97.5x32.5	91
D114	PH2	6.0	100	106.5x36	108
D124	PH2	6.0	125	106.5x36	115
D104	PH2	6.0	150	106.5x36	122
D134	PH2	6.0	200	106.5x36	131
D107	PH3	8.0	150	114.5x39	165
D117	PH3	8.0	200	114.5x39	186
D146	PH1	5.0	38	60x34.5	67
D144	PH2	6.0	38	60x34.5	67



Screwdrivers 7 Pcs Set



Description

Made of super hardened silicon alloy steel (S2), and HRC 51-54 Heat and wear resistant blades. Magnetic tips. Double injected soft handle.

Contains

4 slotted: 3.0 X 75mm - 4.0 x 100mm - 6.0 x 150mm - 8.0 x 175mm.
3 Phillips: PH 1 x 75mm - PH 2 x 100mm - PH 3 x 150mm.



PN D200

Precision Screwdrivers 6 Pcs Set



Application

Set of Torx screwdrivers for precise adjustments.

Blade

Round blade high-grade, high quality chrome-vanadium alloy steel (CR-V), extreme wear resistance.

Tip

Fit black tip, magnetized.

Handle

Ergonomic design avoids too much strain on the hand arm system. Cushioned handle with a rotating head allows for precise adjustments while giving you greater control.

Contains

4 pieces Slotted: 1.4mm - 2.0 mm - 2.4mm - 3.0mm.
2 pieces Phillips: PH 0 - PH 1.



PN D211

Go-Thru Screwdrivers 7 Pcs Set



Description

Made of super hardened silicon alloy steel (S2), heat and wear resistant blades. Magnetic tips. Double injected soft handle.

Contains

4 slotted: 3.0 X 75mm - 4.0 x 100mm - 6.0 x 150mm - 8.0 x 175mm.
3 Phillips: PH 1 x 75mm - PH 2 x 100mm - PH 3 x 150mm.



PN D202

Screwdrivers 10 Pcs Set



Description

Made of super hardened silicon alloy steel (S2), heat and wear resistant blades.
Magnetic tips.
Double injected soft handle with steel cap.

Contains

3 slotted: 5.0 x 100mm - 6.0 x 125mm - 8.0 x 150mm.
2 Phillips: PH 1 x 100mm - PH 2 x 125mm.
3 precision slotted: 2.0 x 50mm.
2.5 x 50mm - 3.0 x 50mm.
2 precision Phillips: PH 0 x 50mm - PH 00 x 50mm.



PN D201

Torx Screwdrivers 5 Pcs Set



Description

Made of super hardened silicon alloy steel (S2), heat and wear resistant blades.
Magnetic tips.
Double injected soft handle.

Contains

T 10 x 100mm - T 15 x 100mm -
T 20 x 100mm - T 25 x 100mm - T 30 x 100mm.



PN D203

Torx Screwdrivers 7 Pcs Set



Description

Made of super hardened silicon alloy steel (S2), heat and wear resistant blades.
Magnetic tips.
Double injected soft handle.

Contains

T 10 x 100mm - T 15 x 100mm -
T 20 x 100mm - T 25 x 100mm -
T 27 x 100mm - T 30 x 100mm - T40 x 100mm.



PN D204



Screwdrivers 39 Pcs Set



Description

- 1 PC Ratchet Handle .
- 1 PC Spinner Handle .
- 2 PCS extension bar: 55mm, 100mm .
- 1 PC Universal Joint .
- 1 PC Bits holder .
- 24 PCS bits (6.35 x 25mm):
 - Slotted: 3mm, 4mm, 5mm, 6mm, 7mm .
 - Phillips: PH 0, PH 1, PH 2, PH 3 .
 - Pozi: PZ 0, PZ 1, PZ 2, PZ 3 .
 - Torx: T10, T15, T 25, T27, T 30, T40 .
 - Hex : H3, H4, H5, H6 .
- 9 PC sockets ¼": 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0mm .

Material

High-grade, high quality chrome-vanadium alloy steel (CR-V) , and HRC 51-54, extreme wear resistance .



PN D205

Bit Driver

- Application** High torque soft grip bit driver for 1/4" hexagon insert bits.
- Blade** High-grade, high quality chrome-vanadium alloy steel (CR-V), with strong magnet.
- Handle** Ergonomic design avoids too much strain on the hand arm system and large diameter handle that offers greater torque.

Part no.	Size	Ømm	mm	mm	g
D000	4/1"	6.8	90	107x33	100



1/4" DR. Hex Shank Slotted Insert Bits

- Blade** Slotted Bits for bit driver with 1/4" drive size.
- Material** Hard alloy, super hardened silicon alloy steel (S2), with unmatched durability.

Part no.	Size	Ømm
D3.0 011	3.0 x 0.5	25
D4.0 011	4.0 x 0.5	25
D4.5 011	4.5 x 0.6	25
D5.5 011	5.5 x 1.0	25
D6.5 011	6.5 x 1.2	25
D8.0 011	8.0 x 1.2	25



1/4" DR. Hex Shank Phillips Insert Bits

- Blade** Phillips Bits for bit driver with 1/4" drive size.
- Material** Hard alloy, super hardened silicon alloy steel (S2), with unmatched durability.

Part no.	Size	Ømm
D012 PH0	PH 0	25
D012 PH1	PH 1	25
D012 PH2	PH 2	25
D012 PH3	PH 3	25



1/4" DR. Hex Shank Pozi Insert Bits

- Blade** Pozi Bits for bit driver with 1/4" drive size.
- Material** Hard alloy, super hardened silicon alloy steel (S2), with unmatched durability.

Part no.	Size	Ømm
D013 PZ0	PZ 0	25
D013 PZ1	PZ 1	25
D013 PZ2	PZ 2	25
D013 PZ3	PZ 3	25



Voltage Testers



Application

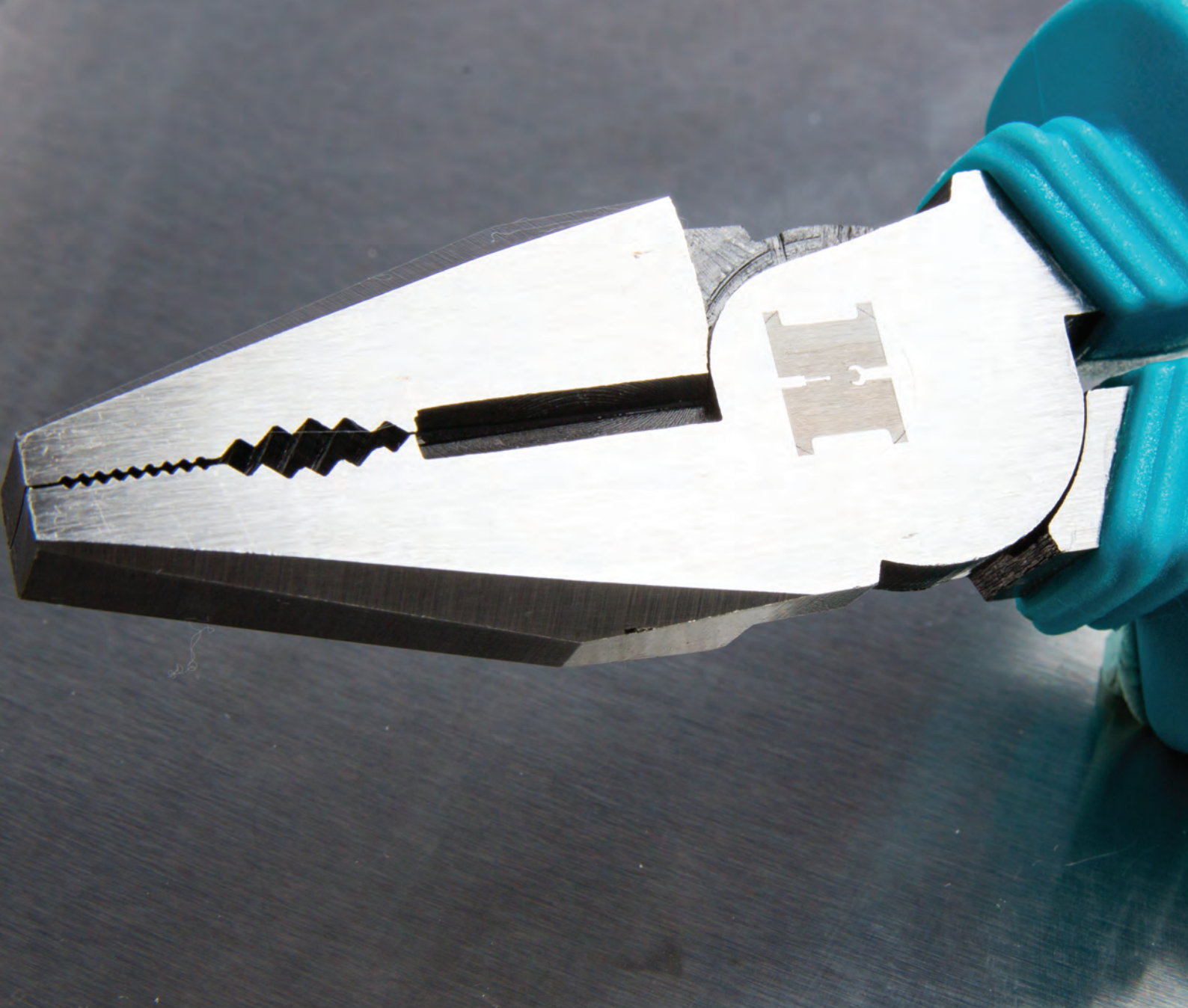
Screwdrivers specialized for testing voltage 100-500v.

Blade

High-grade, high quality chrome-vanadium alloy steel (CR-V), extreme wear resistance.

Part no.	Overall length mm	Cap
D099	125	brass cap
D089	145	brass cap
D079	145	plastic cap
D069	190	brass cap
D059	145	iron cap
D049	190	iron cap





Pliers



Pliers are an indispensable tool in your tool box, they are very versatile and can help complete many jobs, as they shift the power from your hand to a more precise point while the jaws grip, cut, reshape, remove, loosen or tighten the material you are working with. Hector range of pliers offer a vast choice for all different usage you might encounter, from regular combination pliers, to cutting pliers, water pump pliers and up to locking pliers.

DID YOU KNOW?



Did you know that there are around 8 types of pliers?

Most pliers have multiple purposes to cover several usage from cutting, gripping, holding and twisting to gripping and holding pipes



1 - Straight and Bent Long Nose Pliers

with long gripping nose for gripping and holding hard-to-reach areas and very useful for twisting electrical wires.



2 - Diagonal and End Cutting Pliers

Diagonal cutting pliers has tapering head shape to access confined spaces.



3 - End Wire Stripper Pliers

It removes insulation from cable without damaging the core.



4 - Carpenters' Pincer

With beveled jaw edges for gripping and extracting nails and tacks without cutting them.



5 - Cable Cutter

Also known as "Cable Shears" used for clean and precise cut without crushing compared to diagonal cutters.



6- Slip Joint Pliers

A general purpose gripping tool with adjustable jaw that has two positions for greater versatility and 3-zone jaws grip.



7- Water Pump Pliers

Adjustable pliers with sliding pivot for gripping and holding pipes as well as hex profile objects.



8 - Locking Pliers

A general purpose gripping tool with locking action holds jaws to lock the work to keep both hands free. and with guarded release trigger to protects against accidental release.

Combination Pliers - Power Range



Application	General use pliers for gripping, holding and cutting work.
Body	<p>Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V) , that is heat treated for hardness and durability.</p> <p>Interlocking joint assembly for smooth cutting.</p> <p>35% less effort required than with normal combination pliers, due to the advanced leverage design the work is much easier.</p>
Handle	Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	\varnothing mm	\varnothing mm
C099	6" /160	1.6	2.2
C100	7" /180	1.8	2.4
C101	8" /200	2.2	2.6



Crimping Combination Pliers - Power Range



Application	General use pliers for gripping, holding, cutting work and crimping ferrules.
Body	<p>Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V) , that is heat treated for hardness and durability.</p> <p>Interlocking joint assembly for smooth cutting.</p> <p>With cutting edges for soft and hard wire.</p> <p>35% less effort required than with normal combination pliers, due to the advanced leverage design the work is much easier.</p> <p>Long cutting edges for thicker cables.</p>
Handle	Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	\varnothing mm	\varnothing mm
C110	6" /160	1.6	2.2
C111	7" /180	1.8	2.4
C112	8" /200	2.0	2.6
C113	9" /225	2.0	2.6



Diagonal Cutting Pliers - Power Range

Application	Used for cutting soft and hard wires.
	Body
	<p>Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.</p> <p>Interlocking joint assembly for smooth cutting.</p> <p>35% less effort required than with normal combination pliers, due to the advanced leverage design the work is much easier.</p>
Handle	Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	Ømm	
		Ømm	Ømm
C201	6" / 160	1.8	2.2
C202	7" / 180	1.8	2.2
C203	8" / 200	2.0	2.2



Long Nose Pliers - Power Range

Application	Suitable for fine gripping and holding in hard to reach areas as well as cutting wires.
	Body
	<p>Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.</p> <p>Interlocking joint assembly for smooth cutting.</p> <p>35% less effort required than with normal combination pliers, due to the advanced leverage design the work is much easier.</p> <p>With cutting edges for soft, medium-hard and hard wire.</p>
Handle	Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	Ømm	
		Ømm	Ømm
C104	6" / 160	1.6	2.0
C105	8" / 200	2.0	2.4



Combination Pliers Double Cutter - Power Range



Application

General use pliers for gripping, holding and cutting work.

Body

Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.

Interlocking joint assembly for smooth cutting.

35% less effort required than with normal combination pliers, due to the advanced leverage design the work is much easier.

With two, front and rear, shear cutting edges for different wires.

Handle

Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	\varnothing mm	\varnothing mm
C114	8"/200	2.0	2.6



Combination Pliers - Comfort Range



Application

General use pliers for gripping, holding and cutting work.

Body

Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.

Interlocking joint assembly for smooth cutting.

With long cutting edges for soft or hard wires and for thicker cables.

Handle

Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	\varnothing mm	\varnothing mm
C121	6"/160	1.6	2.2
C122	7"/180	1.8	2.4
C123	8"/200	2.2	2.6



Diagonal Cutting Pliers - Comfort Range





Application Used for cutting soft and hard wires.

Body Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.

Interlocking joint assembly for smooth cutting.

Handle Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	 \varnothing mm	 \varnothing mm
C210	6" / 160	1.6	2.0
C211	7" / 180	1.8	2.2



Big Head Diagonal Cutting Pliers - Comfort Range



Application Used for cutting soft and hard wires.

Body Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.

Interlocking joint assembly for smooth cutting.

Handle Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.



Part no.	Size inch / mm	 \varnothing mm	 \varnothing mm
C212	7" / 180	2.0	2.4



Long Nose Pliers - Comfort Range



Application	Suitable for fine gripping and holding in hard to reach tight areas as well as cutting wires.
Body	<p>Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.</p> <p>Interlocking joint assembly for smooth cutting.</p> <p>With cutting edges for soft, medium-hard and hard wire.</p>
Handle	Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.



Part no.	Size		
	inch / mm		
C115	6" / 160	1.6	2.0
C117	8" / 200	1.8	2.2



Long Nose Precision Pliers - Comfort Range



Application	Ideal for assembling, repairing & disassembling. Suitable for electrical use and precision equipment.
Body	<p>Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.</p> <p>Interlocking joint assembly for smooth cutting.</p> <p>With cutting edges for soft, medium-hard and hard wire.</p> <p>Serrated jaw for gripping nuts, bolts, studs and similar objects.</p>
Handle	Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.



Part no.	Size		
	inch / mm		
C125	6" / 160	1.6	2.0
C127	8" / 200	2.0	2.4



Bent Nose Pliers - Comfort Range



- Application** Bent nose with 45° slang suitable for fine gripping and holding in hard to reach areas as well as cutting wires.
- Body** Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability. Interlocking joint assembly for smooth cutting. With cutting edges for soft, medium-hard and hard wire.
- Handle** Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size	 mm	 mm
	inch / mm		
C130	6" / 160	1.6	2.0
C131	7" / 180	1.6	2.0
C132	8" / 200	1.8	2.2



Wire Stripper - Comfort Range



- Application** Pliers for stripping cables and wires.
- Body** Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability. Interlocking joint assembly for smooth cutting.
- Handle** Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size
	inch / mm
C160	6" / 160



End Cutting Pliers - Comfort Range



Application

Used for cutting soft and hard wires, more suitable for cutting wires in tight positions.



Body

Fine polished, induction hardened blade for long life and high quality accuracy. High quality chrome-vanadium alloy steel (CR-V), that is heat treated for hardness and durability.

Interlocking joint assembly for smooth cutting.

Handle

Using new environmentally safe grip TPE (Thermoplastic Elastomer) with ergonomically design to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch / mm	 mm	 mm
C213	6"/160	2.0	2.4

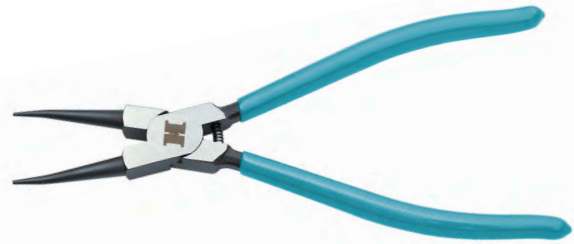


Snap Ring Pliers Internal Close - Straight



- Application** Professional C-ring installation and removal tool.
- Body** Made of forged, high quality chrome-vanadium alloy steel (CR-V), sold style.
- Handle** Non-slip solid tips.
PVC dip handles

Part no.	Size inch / mm
C810	5" / 130
C811	7" / 180
C812	9" / 225



Snap Ring Pliers Internal Close - Bent



- Application** Professional C-ring installation and removal tool.
- Body** Made of forged, high quality chrome-vanadium alloy steel (CR-V), sold style.
- Handle** Non-slip solid tips.
PVC dip handles

Part no.	Size inch / mm
C813	5" / 130
C814	7" / 180
C815	9" / 225



Snap Ring Pliers External Close - Straight



- Application** Professional C-ring installation and removal tool.
- Body** Made of forged, high quality chrome-vanadium alloy steel (CR-V), sold style.
- Handle** Non-slip solid tips.
PVC dip handles

Part no.	Size inch / mm
C820	5" / 130
C821	7" / 180
C822	9" / 225



Snap Ring Pliers External Close - Bent



Application

Professional C-ring installation and removal tool.

Body

Made of forged, high quality chrome-vanadium alloy steel (CR-V), sold style.

Handle

Non-slip solid tips.

PVC dip handles

Part no.	Size inch / mm
C823	5" / 130
C824	7" / 180
C825	9" / 225



Carpenters' Pincers



- Application** For removing nails in wood and cutting building wires.
- Body** Askew jaw edges for gripping nails without breaking them.
Curved jaw to enable flexible movement of the pincer to extract nails and tacks.
- Handle** PVC dip handles.

Part no.	Size inch / mm
C220	7"/180
C221	8"/200



Cable Cutter - Tubular Handles



- Application** Suitable for cutting wire rope up to 16mm and armored cable up to 21mm.
- Body** Hardened and sharpened jaws for smoother cutting.
Body made of tubular steel thus much lighter in weight to minimize arm exhaustion when used.
- Handle** Rubber grips to eliminate slipping.

Part no.	Total Length
C500	24" (600mm)



Wire and Rope Cutter



- Application** Multi-function cutter used for agricultural, automotive and light industrial tasks.
- Body** Hardened curved blades for more accurate cutting.
Equipped with a spring head for easier cutting.
- Handle** Rubber handles to eliminate slipping.

Part no.	Total Length
C501	8" (200mm)



Cable Cutter



Application

Special cutter for cutting copper and aluminum cables.

Body

High-grade special tools steel, forged, oil-hardened, precision ground, hardened blades. For cutting copper and aluminum single conductors as well as multiple stranded cables, not suitable for steel wire and hard drawn copper conductors.

Handle

Two color TPE grips free of any harmful components, environmentally safe grip.

Part no.	Size
----------	------

C502	6"
------	----

C503	8"
------	----

C504	10"
------	-----



Slip Joint Pliers



Application

General use pliers for gripping with two jaw positions.

Body

Made of high quality chrome - vanadium alloy steel (CR-V).
Fine polished finish for rust resistance.

Handle

Two color soft grips for comfort use.

Part no.	Size
----------	------

C170	6"
------	----

C171	8"
------	----

C172	10"
------	-----

C173	12"
------	-----



Water Pump Pliers - Slip Joint



Application

Used for gripping and holding pipes as well as hex profile objects.

Body

Sliding pivot gives a broad jaw opening for positions with capacity of 0-42mm.
Drop forged with high grade tools steel, heat treated and fully tempered.
Joint protector to safeguard the fingers so as the handles don't close on them.
Offset jaws to furnish a more accurate hold on the work surface.

Handle

TPR (thermo plastic) handles.

Part no.	Size inch / mm
C134	10"/250



Water Pump Pliers - Groove Joint



Application

Used for gripping and holding pipes as well as hex profile objects.

Body

Sliding pivot gives a broad jaw opening for positions with capacity 0-42mm.
Drop forged with high grade tools steel, heat treated and fully tempered.
Joint protector to safeguard the fingers so as the handles don't close on them.
Offset and serrated curved jaws to furnish a more accurate hold on the work surface.

Handle

PVC dip handles.

Part no.	Size inch / mm
C135	10"/250



Water Pump Pliers - Box Joint



Application

Used for gripping and holding pipes as well as hex profile objects.

Body

Sliding pivot gives a broad jaw opening for positions with capacity 0-36mm.
Drop forged with high grade tools steel, heat treated and fully tempered.
Joint protector to safeguard the fingers so as the handles don't close on them.
Offset and serrated curved to furnish a more accurate hold on the work surface.

Handle

TPR (thermo plastic) handles.

Part no.	Size inch / mm
C136	10"/250



Straight Jaw Locking Pliers



Application

For secure gripping and clamping on different types of uneven surfaces and irregular work pieces.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C302	7" / 175
C303	10" / 250



Straight Jaw Locking Pliers - With Cutter



Application

For secure gripping and clamping on different types of uneven surfaces and irregular work pieces and is equipped with a wire cutter.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C300	7" / 175
C301	10" / 250



Locking Pinch off Pliers



Application

The seamless jaws provide a hands free grip on tubing.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents

Part no.	Size inch / mm
C613	7" / 175
C614	10" / 250



Curved Jaw Locking Pliers

Application

For secure gripping and clamping curved surfaces or objects.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C402	10" / 250



Curved Jaw Locking Pliers - With Cutter

Application

For secure gripping and clamping curved surfaces or objects and is equipped with a wire cutter.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C399	5" / 125
C400	7" / 175
C401	10" / 250



Long Nose Locking Pliers - With Cutter

Application

Used for reaching work that requires tightening in cramped spaces (such as bolts) and is equipped with a wire cutter.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C304	6" / 150
C309	9" / 225



C-Clamp Locking Pliers - With Regular Tips



Application

The widely curved jaws provide a wide reach and tight clasp around bulky shapes.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C600	6" / 150
C601	11" / 275



C-Clamp Locking Pliers - With Swivel Pads



Application

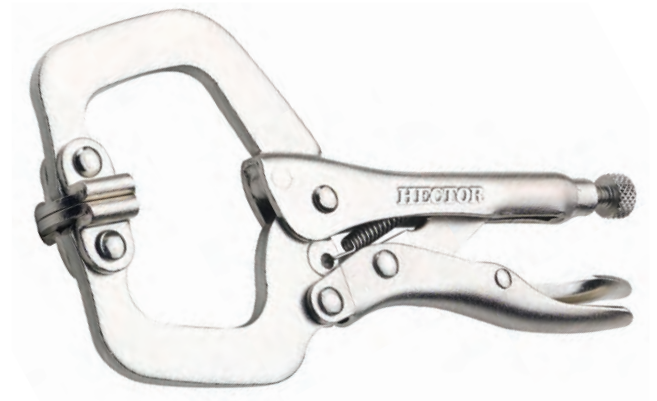
The widely curved jaws provide a wide reach and tight clasp around bulky shapes. And the swivel pads preserve work pieces.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents.

Part no.	Size inch / mm
C602	6" / 150
C603	11" / 275



Locking Sheet Metal Pliers



Application

Locks on metal sheets to facilitate bending, forming, and coiling.

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents

Part no.	Size inch / mm
C605	8" / 205
C615	10" / 250



Locking Pliers Welding Clamp



Application

U-shaped jaws that align diverse surfaces shapes to allow accurate welding

Body

Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.

Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects. Equipped with a release trigger to avoid accidents

Part no.	Size inch / mm
C604	9" / 230
C606	11" / 270



Chain Clamp Locking Pliers

Application Provides a tight grip on uneven shapes up to 460mm (18") in diameter.

Body Body and jaws made from high grade chrome-molybdenum steel to accommodate heavy duty work and vibration.
Heat treated and wear resistant serrated jaws to accommodate a tight grasp on objects.
Equipped with a release trigger to avoid accidents

Part no.	Size inch / mm
C607	18" / 460






VDE Tools



VDE tools are tested and certified by “Verband der Elektrotechnik” Institute, an internationally accredited independent organization working to ensure the safety of electrical tools and machines. It has its special Certification Mark. Hector has the ideal combination of tools for professional electricians through its VDE tool collection that covers screwdrivers, pliers and snipers with their ergonomically design to give you the ultimate degree of comfort, safety and balance to facilitate your work.

HECTOR
tough enough



DID YOU KNOW?



How Are VDE Tools Tested?

VDE tools are the main equipment for electrician because they are covered with a material that doesn't conduct electricity. Each tool is assessed to 10,000V to guarantee the electrician safety through protective insulation when working with electrical energized materials up to 1,000V AC.

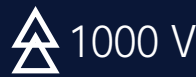
Thus, they are particularly made to avoid electrocution and protect the electrical circuit from any harm.

How Do I Recognize VDE Tools?

Look out for the following marks:



This symbol confirms compliance with VDE regulations or European or international harmonized standards with safety requirements and with regards to electrical, mechanical, thermal, toxicological, radiological and other hazards.



The double triangle with a value voltage beside it show that the tool is safe to work with on energized parts at the value voltage.

IEC 60900:2004

An international standard that describes detailed requirements for the design of insulated tools such as the thickness of the insulation. Also it classifies individual and series of tests to ensure electrical safety of the insulation material.



VDE 1,000V Insulated Slotted Parallel Screwdriver



- Application** Suitable for electrical work on circuit breakers panels and electrical wire with applications up to 1,000V AC.
- Shaft** High quality chrome-vanadium alloy steel (CR-V) coated with VDE compliant insulation sleeve to insure both strength and safety.
- Tip** Hardened black oxidized.
- Handle** Two components handle with elastomer cushion for a more comfortable grip as well as an ergonomic hexagonal design to ensure a good hold on the tool and avoid strain on the hand and arm while working.

Part no.	Tip Size (mm)	Blade Length (mm)
E001	2.5	75
E002	3	100
E003	3.5	100
E004	4	100
E005	5.5	125
E006	6.5	150



VDE 1,000V Insulated Phillips Screwdriver



- Application** Suitable for electrical work on circuit breakers panels and electrical wire with applications up to 1,000V AC.
- Shaft** High quality chrome-vanadium alloy steel (CR-V) coated with VDE compliant insulation sleeve to insure both strength and safety.
- Tip** Hardened black oxidized.
- Handle** Two components handle with elastomer cushion for a more comfortable grip as well as an ergonomic hexagonal design to ensure a good hold on the tool and avoid strain on the hand and arm while working.

Part no.	Tip Size	Blade Length (mm)
E011	PH0	60
E012	PH1	80
E013	PH2	100



VDE 1,000V Insulated Pozidriv Screwdriver



- Application** Suitable for electrical work on circuit breakers panels and electrical wire with applications up to 1,000V AC.
- Shaft** High quality chrome-vanadium alloy steel (CR-V) coated with VDE compliant insulation sleeve to insure both strength and safety.
- Tip** Hardened black oxidized.
- Handle** Two components handle with elastomer cushion for a more comfortable grip as well as an ergonomic hexagonal design to ensure a good hold on the tool and avoid strain on the hand and arm while working.

Part no.	Tip Size	Blade Length (mm)
E021	PZ0	60
E022	PZ1	80
E023	PZ2	100
E024	PZ2	200



VDE 1,000V Insulated Modulo Screwdriver



- Application** Suitable for electrical work on circuit breakers panels and electrical wire with applications up to 1,000V AC.
- Shaft** High quality chrome-vanadium alloy steel (CR-V) coated with VDE compliant insulation sleeve to insure both strength and safety.
- Tip** Hardened black oxidized.
- Handle** Two components handle with elastomer cushion for a more comfortable grip as well as an ergonomic hexagonal design to ensure a good hold on the tool and avoid strain on the hand and arm while working.

Part no.	Tip Size (mm)	Blade Length (mm)
E031	65	100



VDE Screwdriver 4pcs Set

Description

4 pieces VDE screwdriver set contains :
1 Slotted – 1.0x5.5x125mm.
2 Philips – PH2X100mm, PH1x80mm.
1 single voltage tester.



PN E010

VDE Screwdriver 6pcs Set

Description

6 pieces VDE screwdriver set contains :
2 Slotted – 1.0 x5.5x125mm, 0.8 x4.0 x100mm.
3 Philips – PH3X150mm , PH2X100mm , PH1X80mm.
1 Single voltage tester.



PN E020

VDE 1,000V Insulated Combination Pliers

- Application** General use pliers for gripping, holding and cutting work, especially for working on or near electrically live components.
- Body** High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.
Coated with VDE compliant insulation sleeve to insure both strength and safety.
Serrated jaws with a curve for gripping on round objects as well as nuts and bolts, also equipped with a sharp cutter for accurate wire cutting.
- Handle** Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch /mm	WIRE CUTTING CAPACITIES			
		Soft - Wire	Med-Hard Wire	Hard - Wire	Plano - Wire
E101	7"/180	4.0	3.0	2.0	1.6
E102	8"/200	4.0	3.0	2.0	1.6



VDE 1,000V Insulated Diagonal Cutting Pliers

- Application** For cutting electrical wires or groups of wires that need to be severed close to the surface.
- Body** High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.
Coated with VDE compliant insulation sleeve to insure both strength and safety.
Narrow head to reach in confined spaces and cut wires close to the surface.
Rounded jaw ends provide accuracy and power while working.
- Handle** Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch /mm	WIRE CUTTING CAPACITIES			
		Soft - Wire	Med-Hard Wire	Hard - Wire	Plano - Wire
E111	6.5"/165	4.0	3.0	2.0	1.6
E112	7.5"/185	4.0	3.0	2.0	1.6



VDE 1,000V insulated Diagonal Cutting Pliers With Wire Strippers

Application

For cutting and stripping 1.5mm² and 2.5mm² medium to hard wire, especially work close to surfaces.

Body

High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.

Coated with VDE compliant insulation sleeve to insure both strength and safety. Narrow head to reach in confined spaces and cut wires close to the surface. The head includes indentation for wire stripping of 1.5mm² and 2.5mm² wires. Rounded jaw ends provide accuracy and power while working.

Handle

Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch /mm	WIRE CUTTING CAPACITIES			
		Soft - Wire	Med-Hard Wire	Hard - Wire	Plano - Wire
E121	6.5"/165	4.0	3.0	2.0	1.6
E122	7.5"/185	4.0	3.0	2.0	1.6



VDE 1,000V Insulated Long Nose Pliers

Application

For extracting or removing as well as cutting electrical wires in cramped spaces.

Body

High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.

Coated with VDE compliant insulation sleeve to insure both strength and safety.

Long narrow nose with fine serrated jaws to reach in confined spaces and cut small wires.

The head includes indentation for wire stripping of 1.5mm² and 2.5mm² wires.

Rounded jaws ends provide accuracy and power while working.

Side cutter for cutting medium hard wire.

Handle

Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch /mm	WIRE CUTTING CAPACITIES			
		Soft - Wire	Med-Hard Wire	Hard - Wire	Plano - Wire
E131	8"/200	4.0	3.0	2.0	1.6



VDE 1,000V Insulated Bent Long Nose Pliers



Application For adjusting, extracting or removing as well as cutting electrical wires in cramped spaces.

Body High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.
 Coated with VDE compliant insulation sleeve to insure both strength and safety.
Long, narrow and bent nose with fine serrated jaws for maximum reach in confined spaces and cutting small wires with medium hardness.
Round bent serrated jaws ends provide acute cutting while working in confined spaces.
 Side cutter for cutting medium hard wire.

Handle Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.



Part no.	Size inch /mm	WIRE CUTTING CAPACITIES			
		Soft - Wire	Med-Hard Wire	Hard - Wire	Piano - Wire
E141	8"/200	4.0	3.0	2.0	1.6

VDE 1,000V Insulated Wire Stripper



Application Suitable for removing insulation from cables without harming the wire.

Body High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.
 Coated with VDE compliant insulation sleeve to insure both strength and safety.
Head designed for stripping different size cables.
 Equipped with an adjustable holding screw to provide control and reduce movement of the wire during stripping.
 Includes a spring to allow an automatic return of the handle opening.

Handle Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.



Part no.	Size inch /mm	Dia. mm	Dia. mm ²



VDE 1,000V Insulated Big Head Diagonal Cutting Pliers - Heavy Duty

Application For cutting electrical wires or groups of wires that need to be severed close to the surface.

Body High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.

Coated with VDE compliant insulation sleeve to insure both strength and safety.

Narrow and long head for deeper reach in confined spaces and cut wires close to the surface.

Rounded jaw ends provide accuracy and power while working.

Handle Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch /mm	WIRE CUTTING CAPACITIES			
		Soft - Wire	Med-Hard Wire	Hard - Wire	Piano - Wire
E161	6.5"/165	4.0	3.0	2.0	1.6
E162	8"/200	5.0	3.5	2.4	2



VDE 1,000V Insulated Cable Cutter

Application Cable cutter suitable for stronger electrical cables and wires made of on copper and aluminum wire.

Body High quality chrome-vanadium alloy steel (CR-V) that is heat treated for hardness and durability.

Coated with VDE compliant insulation sleeve to insure both strength and safety.

Sharpened and strengthened cutting edges that allow cutting trough cables easily and give a cleaner cut.

Handle Ergonomic design with a hand-stop edge for maximum safety and to reduce pain and discomfort associated with repetitive tasks.

Part no.	Size inch /mm	Dia. mm	Dia. mm ²





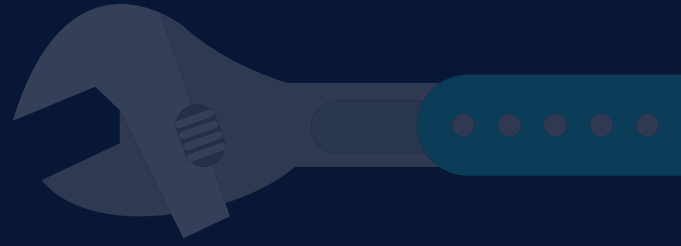
Wrenches



In your line of work a wrench is an essential tool especially when you want to provide your grip with a mechanical advantage in order to apply torque for tightening or loosening or simply fastening work pieces such as pipes, nuts, bolts and screws, depending on the wrench type.

Hector has a wide spectrum of wrenches; open end, ring end, combination, pipe, adjustable, Allen and socket wrenches; which offers you valuable choice that suits different functions.

DID YOU KNOW?



Did you know that there are different types of wrenches?

1. Double open end wrench

The open end format is ideal for working on pipelines where on side access is possible which allows a greater range of movement in enclosed spaces by flipping the wrench over.



2. Double offset ring end wrench

Choose the offset ring end for jobs that require a higher force without damaging the fastener.



3. Combination wrench

This wrench combines in a single tool an open end jaw and an offset ring end jaw. Both ends generally fit the same size of bolt.



4. Adjustable wrench

This wrench has one fixed jaw and one adjustable jaw which allow you to use it on a wide variety of fastener sizes. The jaws are typically smooth and flat and designed for gripping square and hex nuts.



5. Pipe wrench

Pipe wrench is an adjustable wrench used for turning soft rounded surface (pipes). The top jaw moves up or down, and has toothed jaws for gripping onto pipe. This type of wrench reduces the gripping action of the wrench to avoid damaging the pipes.



6. Allen wrench (Allen Key)

Allen wrenches are used on screws and bolts with a hexagonal socket in the head. This wrench is beneficial when you want to use a screw that doesn't pop-out from the surface to protect it from external damage.



7. Ratchet Socket Wrench

Useful when you have got a lot of fastening to do. This wrench contains a ratcheting mechanism which allows the socket to be turned without removing it from the nut or bolt simply by cycling the handle backward and forward.

The ratchet attaches to various sizes of sockets via a square drive.



Tips To Pick The Best Wrench

Don't add more leverage with a pipe or any extension on your wrench. Why?

First, this can damage your wrench by bending the handle or jacking up the head.

Second, because of the added torque you get with the extra leverage, you risk rounding your fastener if you don't have the right wrench head for the job.

Third, there's a chance the cheater bar will slip off the wrench's handle while you're turning, causing harm to you or others.

Solution: simply use a longer wrench. If you have a particularly stubborn fastener, apply some penetrating oil (like liquid wrench) to the thread, wait a few minutes, then try loosening.



Best use of a wrench

When using a wrench, pull, don't push. You typically want to position yourself so that you pull it instead of pushing it. This ensures you don't hurt yourself whenever the wrench slips. If you do need to push a wrench, use the heel of your hand, that way if the wrench slips, you won't hurt yourself.



Precautions when buying a wrench

1. Choosing the material

Some materials offer better corrosion resistance and more durability than others. Chrome plating adds corrosion resistance. There are three common alloy steels the wrenches could be made of one of them:

- Carbon steel:
It offers great durability, but rusts readily (if not plated with oxidation resistant material) and being harder, carbon steel can eventually break rather than chew up.
- Chrome-Vanadium (CR-V):
Chromium and vanadium both increase the steel hardness as well as elasticity. Thus, it's considered a high quality alloy steel.
- Silicon alloy steel:
Similar to CRV but with larger silicon content to increase the strength without losing elasticity so it won't break. Used on small tools such as Allen wrenches.

2. Choosing the best qualifications

When you are buying an adjustable wrench make sure that it has a very little play in the movable jaw, and has a smooth jaw adjustment without getting stuck.

Double Open End Spanner



Application

Double open end spanner (Square opening) for outside hexagon headed nuts, bolts and screws.

Material

Hot drop forged, high quality chrome-vanadium alloy steel (CR-V).

Full polished for excellent quality and protection.

Slim heads for increased accessibility to confined spaces.

High quality finish.

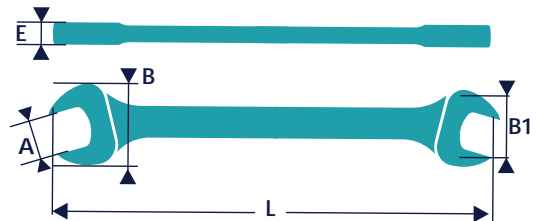


Metric

Part no.	A [mm]	B x B1 [mm]	E [mm]	L [mm]	
B502	3.2 x 5.5	11.0 x 13.5	3.5	90	13
B503	4.0 x 5.0	11.0 x 13.5	3.5	90	10
B504	6.0 x 7.0	15.0 x 17.5	3.7	120	20
B505	7.0 x 8.0	17.5 x 19.0	4.0	120	25
B506	8.0 x 9.0	19.0 x 22.0	4.2	137	35
B507	8.0 x 10.0	19.0 x 22.0	4.2	137	33
B508	10.0 x 11.0	23.0 x 25.0	4.9	152	50
B509	10.0 x 13.0	23.0 x 29.0	4.9	162	64
B510	12.0 x 13.0	25.8 x 29.8	5.5	167	72
B511	12.0 x 14.0	25.5 x 29.8	5.5	167	70
B512	14.0 x 15.0	31.0 x 33.5	5.7	182	95
B513	13.0 x 17.0	31.0 x 37.0	6.3	192	117
B514	16.0 x 17.0	37.0 x 42.0	6.3	210	148
B515	16.0 x 18.0	39.0 x 42.0	7.3	220	182
B516	17.0 x 19.0	39.0 x 42.0	7.3	220	174
B517	18.0 x 19.0	39.0 x 42.0	7.3	220	173
B518	19.0 x 22.0	42.0 x 48.5	7.3	235	179
B519	20.0 x 22.0	43.0 x 48.5	7.5	240	221
B520	21.0 x 23.0	47.0 x 52.0	8.3	245	284
B521	22.0 x 24.0	47.0 x 52.0	8.3	245	277
B522	24.0 x 27.0	53.0 x 58.0	8.8	270	349
B523	25.0 x 28.0	59.5 x 64.0	9.5	285	412
B524	26.0 x 28.0	59.5 x 64.0	9.5	285	409
B525	27.0 x 29.0	59.5 x 64.0	9.5	285	400
B526	27.0 x 30.0	59.5 x 64.0	9.5	285	403
B527	30.0 x 32.0	64.0 x 70.0	9.8	318	516
B528	33.0 x 35.0	71.0 x 75.0	11.5	342	720
B529	34.0 x 36.0	71.0 x 75.0	11.7	342	781
B530	36.0 x 41.0	78.0 x 87.0	12.3	381	1022
B531	38.0 x 42.0	78.0 x 87.0	12.3	381	1034
B532	41.0 x 46.0	87.0 x 94.5	12.3	425	1040
B533	46.0 x 50.0	94.5 x 103.0	12.3	450	1500
B534	50.0 x 55.0	103.0 x 112.0	12.3	460	1550

Inch

Part no.	A ["]	B x B1 [mm]	E [mm]	L [mm]	
B538	¼ x 5/16	15.0 x 17.5	3.7	120	20
B539	5/16 x 3/8	17.5 x 23.0	4.0	137	30
B540	11/32 x 13/32	19.0 x 22.0	4.2	137	32
B541	3/8 x 7/16	23.0 x 25.0	4.9	152	49
B542	7/16 x 1/2	25.0 x 31.0	5.0	172	85
B543	1/2 x 9/16	31.0 x 33.5	5.7	182	93
B544	9/16 x 5/8	33.5 x 37.0	5.7	190	100
B545	19/32 x 11/16	35.5 x 40.5	6	205	130
B546	17/16 x 15/8	78.0 x 87.0	12	381	945
B547	5/8 x 3/4	39.0 x 42.0	6.5	220	160
B548	5/8 x 11/16	39.0 x 42.0	7.3	220	173
B549	11/16 x 3/4	37.0 x 42.0	6.8	210	145
B550	3/4 x 13/16	43.0 x 48.5	7.5	240	220
B551	25/32 x 13/16	44.0 x 48.5	7.5	240	220
B552	3/4 x 7/8	43.0 x 47.0	7.5	240	220
B553	13/16 x 7/8	43.0 x 47.0	7.5	240	220
B554	7/8 x 15/16	47.0 x 52.0	8.3	245	272
B555	15/16 x 1'	52.0 x 59.5	8.3	266	315
B556	1' x 1' 1/16	59.5 x 64.0	9.5	285	414
B557	1' 1/16 x 1' 1/8	64.0 x 64.0	9.5	302	440
B558	1' 1/8 x 1' 1/4	64.0 x 70.0	9.8	318	542
B559	1' 3/16 x 1' 5/16	64.0 x 70.0	9.8	318	544
B560	1' 3/8 x 1' 1/2	78.0 x 87.0	12.3	381	1050



Double Open End Spanners Set



Metric

Part no.	Description
B535	7 Pieces Metric Set: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 and 18x19mm
B536	8 Pieces Metric Set: 24x26 - 25x28 - 27x30 - 27x32 - 32x36 - 36x41 - 41x46 and 46x50mm
B537	11 Pieces Metric Set: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 and 30x32mm
B501	12 Pieces Metric Set: 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x27 - 25x28 - 30x32mm

Inch

Part no.	Description
B561	6 Pieces Inch Set: 1/4" x 5/16" - 3/8" x 7/16" - 1/2" x 9/16" - 5/8" x 11/16" - 3/4" x 13/16" - 7/8" x 15/16"
B562	8 Pieces Inch Set: 1/4" x 5/16" - 3/8" x 7/16" - 1/2" x 9/16" - 5/8" x 11/16" - 3/4" x 13/16" - 7/8" x 15/16" - 1" x 1 1/16" - 1" 1/8 x 1" 1/4"
B563	10 Pieces Inch Set: 1/4" x 5/16" - 5/16" x 3/8" - 3/8" x 7/16" - 7/16" x 1/2" - 1/2" x 9/16" - 9/16" x 5/8" - 5/8" x 11/16" - 11/16" x 3/4" - 3/4" x 7/8" - 15/16" x 1"

Double Offset Ring Spanner



Application

Double offset ring end spanner for outside hexagon headed nuts, bolts and screws.

Material

Hot drop forged, high quality chrome-vanadium alloy steel (CR-V).

Full polished for excellent quality and protection.

Offset ring end from shaft at 75°.

Bi-hex 12-point heads.

High quality finish.

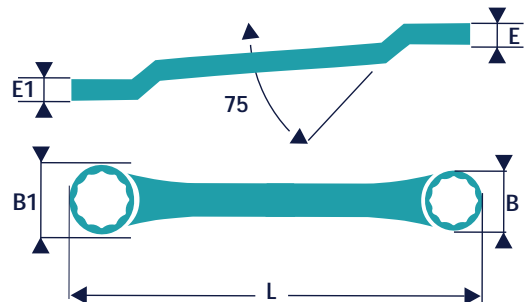


Metric

Part no.	A [mm]	B x B1 [mm]	E x E1 [mm]	L [mm]	
B602	6.0 x 7.0	10.7 x 12.2	5.5 x 6.2	167	40
B603	7.0 x 8.0	12.0 x 14.0	5.5 x 6.5	172	45
B604	8.0 x 9.0	13.7 x 15.5	6.5 x 7.2	182	60
B605	8.0 x 10.0	13.7 x 15.5	6.5 x 7.2	182	65
B606	10.0 x 11.0	16.5 x 18.0	7.5 x 17.0	197	85
B607	11.0 x 13.0	18.0 x 21.0	8.9 x 9.2	217	110
B608	12.0 x 13.0	19.5 x 21.5	8.9 x 9.2	218	120
B609	13.0 x 15.0	21.5 x 23.5	9.2 x 9.7	238	150
B610	14.0 x 15.0	22.0 x 23.5	9.2 x 9.7	238	135
B611	13.0 x 16.0	21.5 x 26.0	9.4 x 10.7	245	155
B612	13.0 x 17.0	21.0 x 26.0	9.4 x 10.7	245	150
B613	16.0 x 17.0	25.7 x 27.0	10.7 x 11.2	258	200
B614	16.0 x 18.0	25.7 x 27.2	10.7 x 11.2	258	195
B615	17.0 x 19.0	27.0 x 29.7	11.2 x 12.2	290	265
B616	18.0 x 19.0	27.0 x 29.7	11.2 x 12.2	290	260
B617	18.0 x 21.0	29.0 x 33.0	11.7 x 12.7	296	290
B618	19.0 x 22.0	29.0 x 33.7	11.7 x 12.7	296	285
B619	20.0 x 22.0	32.0 x 35.0	12.2 x 13.2	316	365
B620	21.0 x 23.0	32.0 x 35.0	12.2 x 13.2	316	360
B621	22.0 x 24.0	33.7 x 36.7	12.2 x 13.2	324	390
B622	24.0 x 26.0	37.2 x 41.0	12.7 x 14.3	328	470
B623	24.0 x 27.0	37.2 x 41.2	12.7 x 14.3	328	465
B624	25.0 x 28.0	39.7 x 43.0	13.7 x 14.7	345	515
B625	26.0 x 28.0	39.7 x 43.0	13.7 x 14.7	345	510
B626	27.0 x 29.0	41.5 x 46.0	14.3 x 15.7	353	575
B627	27.0 x 30.0	41.5 x 46.0	14.3 x 15.7	353	570
B628	27.0 x 32.0	41.5 x 46.2	14.3 x 15.7	353	575
B629	30.0 x 32.0	45.3 x 48.7	15.2 x 16.7	360	640
B630	30.0 x 34.0	46.0 x 52.0	17.2 x 19.2	402	820
B631	34.0 x 36.0	52.0 x 55.0	18.2 x 20.2	440	1075
B632	36.0 x 41.0	53.7 x 61.7	18.2 x 20.2	440	1080
B633	38.0 x 42.0	41.5 x 46.0	14.3 x 15.7	455	1070
B634	46.0 x 50.0	70.7 x 76.7	20.7 x 21.7	510	1890

Inch

Part no.	A ["]	B x B1 [mm]	E x E1 [mm]	L [mm]	
B635	1/4 x 5/16	11.0 x 14.0	5.5 x 6.5	172	45
B636	11/32 x 13/32	15.5 x 18.0	7.5 x 8.7	197	80
B637	3/8 x 7/16	16.5 x 18.0	7.5 x 17.0	197	85
B638	7/16 x 1/2	18.0 x 21.0	8.9 x 9.2	217	110
B639	1/2 x 9/16	21.5 x 23.0	9.2 x 9.7	238	145
B640	9/16 x 5/8	22.0 x 23.5	9.2 x 9.7	238	135
B641	5/8 x 11/16	25.7 x 27.0	10.7 x 11.2	258	200
B642	19/32 x 25/32	25.7 x 27.2	10.7 x 11.2	258	195
B643	5/8 x 3/4	25.7 x 27.2	10.7 x 11.2	258	265
B644	11/16 x 3/4	27.0 x 29.7	11.2 x 12.2	290	260
B645	3/4 x 13/16	29.0 x 33.0	11.7 x 12.7	296	290
B646	13/16 x 7/8	32.0 x 35.0	12.2 x 13.2	316	365
B647	7/8 x 15/16	33.7 x 36.7	12.2 x 13.2	324	390
B648	15/16 x 1"	37.2 x 41.0	12.7 x 14.3	328	470
B649	1" x 1"1/16	39.7 x 42.0	13.7 x 14.7	345	475
B650	1"1/16 x 1"1/8	41.5 x 46.0	14.3 x 15.7	353	575
B651	1"1/8 x 1"1/4	45.3 x 48.7	15.2 x 16.7	360	640



Double Offset Ring Spanners Set



Metric

Part no. Description

B652 7 Pieces Metric Set:
45 degree offset set: 6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 and 18x19mm

B653 11 Pieces Metric Set:
45 degree offset set: 6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 – 18x19 – 20x22 – 21x23 – 24x27 – 30x32mm

B601 12 Pieces Metric Set:
45 degree offset set: 6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 – 18x19 – 20x22 – 21x23 – 24x27 – 25x28 – 30x32mm

B654 7 Pieces Metric Set:
75 degree offset set: 6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 - 18x19mm

B655 11 Pieces Metric Set:
75 degree offset set: 6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 – 18x19 – 20x22 – 21x23 – 24x27 - 30x32mm

B656 12 Pieces Metric Set:
75 degree offset set: 6x7 – 8x9 – 10x11 – 12x13 – 14x15 – 16x17 – 18x19 – 20x22 – 21x23 – 24x27 – 25x28 – 30x32mm

Inch

Part no. Description

B657 5 Pieces Inch Set:
45 degree offset inch set: 1/4" x 5/16" – 3/8" x 7/16" – 1/2" x 9/16" – 5/8" x 11/16" - 3/4" x 7/8"

B658 10 Pieces Inch Set:
45 degree offset inch set: 1/4" x 5/16" – 5/16" x 3/8" – 3/8" x 7/16" – 7/16" x 1/2" – 1/2" x 9/16" – 9/16" x 5/8" – 5/8" x 11/16" – 11/16" x 3/4" – 3/4" x 7/8" - 15/16" x 1"

B659 5 Pieces Inch Set:
75 degree offset inch set: 1/4" x 5/16" – 3/8" x 7/16" – 1/2" x 9/16" – 5/8" x 11/16" - 3/4" x 7/8"

B660 10 Pieces Inch Set:
75 degree offset inch set: 1/4" x 5/16" – 5/16" x 3/8" – 3/8" x 7/16" – 7/16" x 1/2" – 1/2" x 9/16" – 9/16" x 5/8" – 5/8" x 11/16" – 11/16" x 3/4" – 3/4" x 7/8" - 15/16" x 1"

Combination Spanner



Application

Combination spanner for outside hexagon headed nuts, bolts and screws.

Material

Hot drop forged, high quality chrome-vanadium alloy steel (CR-V).

Full polished for excellent quality and protection.

Both the open end head and the offset ring end are angled at 15° for optimum accessibility.

Bi-hex 12-point ring-end, and the open-end is square opening.

Slim open end head for increased accessibility to confined spaces.

High quality finish.

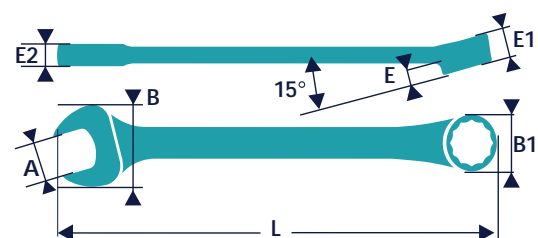


Metric

Part no.	A [mm]	B [mm]	B1 [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	
B702	4.0	10.0	7.8	2.1	3.5	3.0	106	10
B703	5.0	13.3	9.2	3.1	6.0	3.6	115	16
B704	5.5	13.3	9.2	3.1	6.0	3.8	115	15
B705	6.0	14.1	10.0	3.1	6.0	3.8	115	20
B706	7.0	17.2	11.2	3.4	6.2	3.9	122	20
B707	8.0	19.2	12.8	3.5	6.7	4.7	133	30
B708	9.0	21.2	14.2	3.9	7.1	4.7	138	35
B709	10.0	23.0	15.0	4.2	7.6	5.2	145	40
B710	11.0	24.5	16.9	4.6	8.1	5.5	155	50
B711	12.0	27.0	18.0	4.4	8.4	5.8	162	60
B712	13.0	28.7	19.3	4.8	8.6	6.1	170	70
B713	14.0	31.0	21.1	5.7	9.5	6.4	180	85
B714	15.0	32.6	22.2	5.9	10.0	6.8	185	95
B715	16.0	35.6	23.9	6.4	10.5	7.3	195	115
B716	17.0	37.0	25.3	6.5	10.9	7.6	202	130
B717	18.0	38.7	26.0	7.2	11.4	8.1	208	150
B718	19.0	41.2	27.8	7.2	11.9	8.3	216	170
B719	20.0	43.1	29.5	6.3	12.3	8.6	224	185
B720	21.0	45.4	30.9	7.8	12.8	8.8	233	205
B721	22.0	46.9	32.3	8.3	13.3	9.0	248	230
B722	23.0	49.0	33.6	8.7	13.8	9.3	257	255
B723	24.0	51.0	35.0	8.9	14.2	9.7	267	290
B724	25.0	53.0	36.4	9.4	14.7	9.9	274	315
B725	26.0	55.5	37.8	9.8	15.1	10.1	285	345
B726	27.0	58.0	39.2	8.9	15.6	10.4	295	375
B727	28.0	60.7	40.6	10.6	16.1	10.7	305	415
B728	29.0	63.0	42.0	10.8	16.6	11.2	320	475
B729	30.0	65.0	43.5	11.2	17.1	11.5	340	530
B730	32.0	68.0	46.1	11.5	18.0	12.5	355	640
B731	33.0	69.8	47.0	11.8	18.5	12.8	380	715
B732	34.0	72.0	48.9	12.8	19.0	13.0	390	745
B733	35.0	74.3	51.0	12.8	19.5	13.5	430	890
B734	36.0	76.0	53.0	13.2	20.0	14.0	440	945
B735	38.0	80.0	56.0	14.1	22.0	15.2	450	1130
B736	41.0	85.0	58.3	14.7	23.0	16.0	460	1290

Inch

Part no.	A [mm]	B [mm]	B1 [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	
B737	1/4	14.1	10.0	3.1	6.0	3.8	115	20
B738	5/16	19.2	12.8	3.5	6.7	4.7	133	30
B739	11/32	21.2	14.2	3.9	7.1	4.7	138	35
B740	3/8	23.0	15.0	4.2	7.6	5.2	145	45
B741	7/16	24.5	16.9	4.6	8.1	5.5	155	50
B742	1/2	28.7	19.3	4.8	8.6	6.1	170	70
B743	9/16	31.0	21.1	5.7	9.5	6.4	180	85
B744	5/8	35.6	23.9	6.4	10.5	7.3	195	115
B745	11/16	37.0	25.3	6.5	10.9	7.6	202	130
B746	3/4	41.2	27.8	7.2	11.9	8.3	216	170
B747	13/16	43.1	29.5	6.3	12.3	8.6	224	185
B748	7/8	46.9	32.3	8.3	13.3	9.0	248	230
B749	15/16	51.0	35.0	8.9	14.2	9.7	267	290
B750	1"	53.0	36.4	9.4	14.7	9.9	274	315
B751	1"1/16	58.0	39.2	8.9	15.6	10.4	295	375
B752	1"1/8	60.7	40.6	10.6	16.1	10.7	305	415
B753	1"1/4	68.0	46.1	11.5	18.0	12.5	355	640
B754	1"5/16	69.8	47.0	11.8	18.5	12.8	380	715
B755	1"3/8	74.3	51.0	12.8	19.5	13.5	430	890
B756	1"7/16	76.0	53.0	13.2	20.0	14.0	440	945
B757	1"1/2	80.0	56.0	14.1	22.0	15.2	450	1130



Combination Spanners Set



Metric

Part no. Description

B758 11 Pieces Metric Set:
26 – 27 – 28 – 29 – 30 – 32 – 36 – 38 – 41 – 46 – 50mm

B701 12 Pieces Metric Set:
6 – 8 – 10 – 12 – 13 – 17 – 19 – 22 – 24 – 27 – 30 – 32mm

B759 14 Pieces Metric Set:
6 – 8 – 9 – 10 – 13 – 14 – 15 – 17 – 19 – 22 – 24 – 27 – 30 – 32mm

B760 14 Pieces Metric Set:
6 – 7 – 8 – 9 – 10 – 11 – 12 – 13 – 14 – 15 – 16 – 17 – 18 – 19mm

B761 18 Pieces Metric Set:
6 – 7 – 8 – 9 – 10 – 11 – 12 – 13 – 14 – 15 – 16 – 17 – 18 – 19 – 20 – 21 – 22 – 24mm

B762 26 Pieces Metric Set:
6 – 7 – 8 – 9 – 10 – 11 – 12 – 13 – 14 – 15 – 16 – 17 – 18 – 19 – 20 – 21 – 22 – 23 – 24 – 25 – 26 – 27 – 28 – 29 – 30 – 32mm

Inch

Part no. Description

B763 9 Pieces AF Inch Set:
1/4" – 5/16" – 3/8" – 7/16" – 1/2" – 9/16" – 5/8" – 11/16" – 3/4"

B764 11 Pieces AF Inch Set:
1" 1/16" – 1" 1/8" – 1" 1/4" – 1" 5/16" – 1" 3/8" – 1" 7/16" – 1" 1/2" – 1" 5/8" – 1" 3/4" – 1" 7/8" – 2"

B765 12 Pieces Inch Set:
1/4" – 5/16" – 3/8" – 7/16" – 1/2" – 9/16" – 5/8" – 11/16" – 3/4" – 7/8" – 15/16" – 1"

B766 7 Pieces Whitworth Inch Set:
1/8" – 3/16" – 1/4" – 5/16" – 3/8" – 7/16" – 1/2"

Adjustable Wrench



- Application** Variable opening wrench for outside hexagon headed nuts, bolts and screws.
- Body** Hot drop forged, high quality chrome-vanadium alloy steel (CR-V).
The extra wide jaw can be used to tighten large nuts and bolts.
The metric scale laser engraved on the jaw ensures fast setting of the tool.
- Handle** TPR, ergonomic soft feel sleeve gives maximum comfort and grip.

Part no.	Size
B101	6" (150mm)
B102	8" (200mm)
B103	10" (250mm)
B104	12" (300mm)
B105	15" (375 mm)
B106	18" (450 mm)
B107	24" (600 mm)



Adjustable Standard Handle Wrench



- Application** Variable opening wrench for outside hexagon headed nuts, bolts and screws.
- Body** Hot drop forged, high quality chrome-vanadium alloy steel (CR-V).
The extra wide jaw can be used to tighten large nuts and bolts.
The metric scale laser etched onto the jaw ensures fast setting of the tool.
- Handle** Ergonomic handle includes a bi-hex 12-point offset ring end head wrench.

Part no.	Size
B108	6" (150mm)
B109	8" (200mm)
B110	10" (250mm)
B111	12" (300mm)
B112	15" (375 mm)
B113	18" (450 mm)
B114	24" (600 mm)



Leader Pattern Pipe Wrench



Application

For use on pipes and rounded nuts especially in plumbing industry.

Body

The frame and handle are made from a one-piece ductile iron casting which is guaranteed unbreakable.

Flash hardened teeth increase wear resistance.

The hardened and tempered steel adjustment nut gives a longer working life.

The precision machined screw thread and spring jaw remains open until pressure is applied.

Can also be used as a crude hammer.

Standard

Conforms to British Standard BS3594.

Part no.	Length (when open)	Pipe Diameter
B121	8" (200mm)	1" (25mm)
B122	10" (250mm)	1½" (38mm)
B123	12" (300mm)	2" (51mm)
B124	14" (350mm)	2" (51mm)
B125	18" (450mm)	2½" (63mm)
B126	24" (600mm)	3" (76mm)
B127	36" (910mm)	5" (127mm)
B128	48" (1200mm)	6" (152mm)



Stillson Pattern Pipe Wrench



Application

For use on pipes and rounded nuts especially in plumbing industry.

Body

The hardened and tempered hook jaw eliminates breakage.

Flash hardened teeth increase wear resistance.

The nut abutment means that all loading is transferred direct from the handle to the nut and jaw via the nut abutment.

Ensuring that the frame is not load bearing, thus reducing the possibility of frame failure.

Standard

Conforms to British Standard BS3594.

Part no.	Length (when open)	Pipe Diameter
B129	8" (200mm)	¾" (19mm)
B130	10" (250mm)	1" (25mm)
B131	12" (300mm)	1¼" (32mm)
B132	14" (350mm)	1½" (38mm)
B133	18" (450mm)	2" (51mm)
B134	24" (600mm)	2½" (63mm)
B135	36" (910mm)	3½" (89mm)



Hawk Pipe Wrench



Application

Within hawk pipe wrench operation range, everybody could grip on all desired objects to turn them easily, such as stainless.

Body

Jaws are made of high quality chrome-vanadium alloy steel (CR-V) with cast iron or aluminum alloyed steel handle (8", 10", 12", 14", 18").

Single handed tasks.

Powerful triple sides grip.

New ratchet operation.

Self-adjustment.

Cast Iron body



Part no.	Overall Length	Available Pipe Outside Diameter	Max Open Width
B141	8" (200mm)	1/4"-3/4" (13.72-26.67mm)	3/4" (26mm)
B142	10" (250mm)	3/8"-1" (17-33.4mm)	1" (34mm)
B143	12" (300mm)	1/2"-1 1/4" (21.34-42.16mm)	1 1/4" (42mm)
B144	14" (350mm)	1/2"-1 1/2" (21.34-48.26mm)	1 1/2" (48mm)
B145	18" (450mm)	1"-2" (33.4-60.33mm)	2" (60mm)

Aluminum body



Part no.	Overall Length	Available Pipe Outside Diameter	Max Open Width
B146	10" (250mm)	3/8"-1" (17-33.4mm)	1" (34mm)
B147	12" (300mm)	1/2"-1 1/4" (21.34-42.16mm)	1 1/4" (42mm)
B148	14" (350mm)	1/2"-1 1/2" (21.34-48.26mm)	1 1/2" (48mm)
B149	18" (450mm)	1"-2" (33.4-60.33mm)	2" (60mm)



Allen Key Ball End Short Arm 9 Pcs-Set



- Application** Short arm Allen keys for ballpoint and hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with sanding plated finish.
- Sizes** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 (mm).



PN B320

Allen Key Ball End Long Arm 9 Pcs-Set



- Application** Long arm Allen keys for ballpoint and hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with sanding plated finish.
- Sizes** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 (mm).



PN B321

Allen Key Ball End Extra Long Arm 9 Pcs-Set



- Application** Extra long arm Allen keys for ballpoint and hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with sanding plated finish.
- Sizes** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 (mm).



PN B322

Allen Key Hex Short Arm 9 Pcs-Set



- Application** Short arm Allen keys for hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with sanding plated finish.
- Sizes** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 (mm).



PN B207

Allen Key Hex Long Arm 9 Pcs-Set



- Application** Long arm Allen keys for hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with sanding plated finish.
- Sizes** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 (mm).



PN B208

Allen Key Hex Extra Long Arm 9 Pcs-Set



- Application** Extra long arm Allen keys for hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with sanding plated finish.
- Sizes** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 (mm).



PN B209



Allen Key Torx Short Arm 9 Pcs-Set



- Application** Short arm Allen keys for torx screws.
- Blade** High quality chrome-vanadium alloy steel (CRV) with sanding plated finish.
- Sizes** T10, T15, T20, T25, T27, T30, T40, T45, T50.



PN B407

Allen Key Torx Long Arm 9 Pcs-Set



- Application** Long arm Allen keys for torx screws.
- Blade** High quality chrome-vanadium alloy steel (CRV) with sanding plated finish.
- Sizes** T10, T15, T20, T25, T27, T30, T40, T45, T50.



PN B408

Allen Key Torx Extra Long Arm 9 Pcs-set



- Application** Extra Long arm Allen keys for torx screws.
- Blade** High quality chrome-vanadium alloy steel (CRV) with sanding plated finish.
- Sizes** T10, T15, T20, T25, T27, T30, T40, T45, T50.



PN B409

T-Handle Ballpoint Allen Key



- Application** High torque T-Handle keys for hexagon socket screws.
- Blade** Super hardened silicon alloy steel (S2) with satin finish.
- Sizes** The ballpoint hex tip makes it possible to work with angle up to 25°.
- Handle** Ergonomic handle design with hanging hole for organized workshops.

Part no.	Size (mm)
B301	2
B302	2.5
B303	3
B304	4
B305	5
B306	6
B307	8
B308	10
B309	8 Pcs. set: 8 ,6 ,5 ,4 ,3 ,2.5 ,2 and 10



Your Guide To The Socket World

Ratchet Socket Wrench

Useful when you have got a lot of fastening to do. This wrench contains a ratcheting mechanism which allows the socket to be turned without removing it from the nut or bolt simply by cycling the handle backward and forward. The ratchet attaches to various sizes of sockets via a square drive.



There are various types of indispensable accessories that can be attached to ratchet each serves a purpose. To name a few:

1. The adaptor and the universal joint: it latches on the ratchet and connects it to a socket that isn't the same size.
2. The extension bars and the sliding T-Handle: it helps to reach into difficult places.
3. The speed brace: used like the wood-worker's brace. After the nuts are first loosened, it can be used to remove the nuts more quickly.



4. Sockets: which are the main and the most important accessory that does the job and it comes in different sizes, length and shape. The ratchet end are available from 1/4" - 3/8" - 1/2" - 3/4" - 1" and can reach up to 3". The bolt end starts from 4mm and can reach up to 50mm. The socket length can be standard or deep and sockets have different bolt end types.



6-POINT



12-POINT



SPLINE



STAR

Standard Sockets

Application	Manual use sockets for outside hexagon, 12 points, spline and torx (star socket) bolts.
Body	High quality chrome-vanadium alloy steel (CR-V). Thin wall construction for easy access in tight spaces. Slip resistant on all sockets.
Drive	Available in 1/4", 3/8", 1/2", 3/4" , square drive with rounded corners for extended adaptor life, with 4 ball retaining grooves for position.

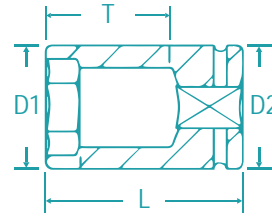


Deep Sockets

Application	Manual use sockets for outside hexagon , 12 points, spline and torx (star socket) bolts, especially for nuts on long threaded bolts and for deep placement of nuts and bolts.
Body	High quality chrome-vanadium alloy steel (CR-V). Thin wall construction for easy access in tight spaces.
Drive	Available in 1/4", 3/8", 1/2" and 3/4" square drive with rounded corners for extended adaptor life, with 4 ball retaining grooves for position.



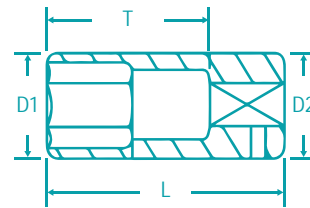
1/4" Dr. 6PT Socket



Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S001 - 4.0	4.0	11.8	6.8	25	3.6
S001 - 4.5	4.5	11.8	7.4	25	3.6
S001 - 5.0	5.0	11.8	8.0	25	4.2
S001 - 5.5	5.5	11.8	8.7	25	4.2
S001 - 6.0	6.0	11.8	9.3	25	4.8
S001 - 7.0	7.0	11.8	10.8	25	5.4
S001 - 8.0	8.0	11.8	11.8	25	5.4
S001 - 9.0	9.0	12.8	12.8	25	6.0
S001 - 10.0	10.0	13.8	13.8	25	7.0
S001 - 11.0	11.0	15.8	15.8	25	8.0
S001 - 12.0	12.0	16.8	16.8	25	8.0
S001 - 13.0	13.0	17.8	17.8	25	8.0
S001 - 14.0	14.0	19.8	19.8	25	10.0

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S001 - 5/32	5/32	11.8	6.8	25	3.6
S001 - 3/16	3/16	11.8	7.4	25	3.6
S001 - 7/32	7/32	11.8	8.0	25	4.2
S001 - 1/4	1/4	11.8	9.3	25	4.8
S001 - 9/32	9/32	11.8	10.8	25	5.4
S001 - 5/16	5/16	11.8	11.8	25	5.4
S001 - 11/32	11/32	12.8	12.8	25	6.0
S001 - 3/8	3/8	13.8	13.8	25	7.0
S001 - 7/16	7/16	15.8	15.8	25	8.0
S001 - 15/32	15/32	16.8	16.8	25	8.0
S001 - 1/2	1/2	17.8	17.8	25	8.0
S001 - 9/16	9/16	19.8	19.8	25	10.0

1/4" Dr. 6PT deep Socket



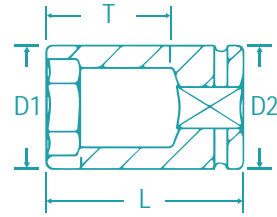
Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S002 - 4.0	4.0	11.8	6.8	50	5.0
S002 - 4.5	4.5	11.8	7.4	50	5.0
S002 - 5.0	5.0	11.8	8.0	50	5.5
S002 - 5.5	5.5	11.8	8.7	50	5.5
S002 - 6.0	6.0	11.8	9.3	50	6.0
S002 - 7.0	7.0	11.8	10.8	50	10.5
S002 - 8.0	8.0	11.8	11.8	50	10.5
S002 - 9.0	9.0	12.8	12.8	50	11.5
S002 - 10.0	10.0	13.8	13.8	50	13.0
S002 - 11.0	11.0	15.8	15.8	50	14.0
S002 - 12.0	12.0	16.8	16.8	50	15.0
S002 - 13.0	13.0	17.8	17.8	50	17.0
S002 - 14.0	14.0	19.8	19.8	50	19.0

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S002 - 5/32	5/32	11.8	6.8	50	5.0
S002 - 3/16	3/16	11.8	7.4	50	5.5
S002 - 7/32	7/32	11.8	8.0	50	5.5
S002 - 1/4	1/4	11.8	9.3	50	6.0
S002 - 9/32	9/32	11.8	10.8	50	10.5
S002 - 5/16	5/16	11.8	11.8	50	10.5
S002 - 11/32	11/32	12.8	12.8	50	11.5
S002 - 3/8	3/8	13.8	13.8	50	13.0
S002 - 7/16	7/16	15.8	15.8	50	14.0
S002 - 15/32	15/32	16.8	16.8	50	15.0
S002 - 1/2	1/2	17.8	17.8	50	17.0
S002 - 9/16	9/16	19.8	19.8	50	19.0

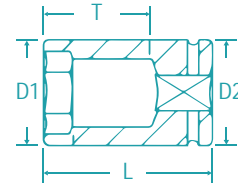
1/4" Dr. Star Socket



Item no.	Size	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S003 - E4	E4	11.8	6.1	25	4.2
S003 - E5	E5	11.8	6.9	25	4.2
S003 - E6	E6	11.8	8.0	25	4.2
S003 - E7	E7	11.8	8.8	25	4.2
S003 - E8	E8	11.8	10.0	25	4.8
S003 - E10	E10	13.7	12.0	25	5.4
S003 - E11	E11	13.7	12.7	25	6.0



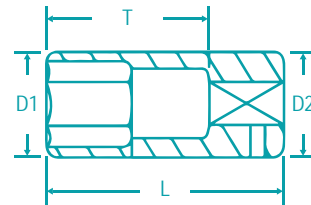
3/8" Dr. 6PT Socket



Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S005 - 6.0	6.0	16.8	10.0	28	6
S005 - 7.0	7.0	16.8	10.8	28	6
S005 - 8.0	8.0	16.8	12.0	28	6
S005 - 9.0	9.0	16.8	13.1	28	8
S005 - 10.0	10.0	16.8	14.7	28	8
S005 - 11.0	11.0	16.8	15.7	28	8
S005 - 12.0	12.0	15.7	16.8	28	8
S005 - 13.0	13.0	16.5	17.8	28	8
S005 - 14.0	14.0	17.5	19.8	28	11
S005 - 15.0	15.0	19.0	21.8	28	11
S005 - 16.0	16.0	19.5	21.8	28	12
S005 - 17.0	17.0	21.5	23.8	30	12
S005 - 18.0	18.0	23.0	25.8	30	14
S005 - 19.0	19.0	23.5	25.8	30	14
S005 - 20.0	20.0	25.5	27.8	30	14
S005 - 21.0	21.0	26.5	27.8	30	14
S005 - 22.0	22.0	28.5	29.8	30	14
S005 - 24.0	24.0	29.0	31.8	30	14

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S005 - 1/4	1/4	16.8	10.0	28	6
S005 - 9/32	9/32	16.8	10.8	28	6
S005 - 5/16	5/16	16.8	12.0	28	6
S005 - 11/32	11/32	16.8	13.1	28	8
S005 - 3/8	3/8	16.8	14.7	28	8
S005 - 7/16	7/16	16.8	15.7	28	8
S005 - 15/32	15/32	15.7	16.8	28	8
S005 - 1/2	1/2	16.5	17.8	28	8
S005 - 9/16	9/16	17.5	19.8	28	11
S005 - 19/32	19/32	19.0	21.8	28	11
S005 - 5/8	5/8	19.5	21.8	28	12
S005 - 11/16	11/16	21.5	23.8	30	12
S005 - 3/4	3/4	23.5	25.8	30	14
S005 - 25/32	25/32	25.5	27.8	30	14
S005 - 13/16	13/16	26.5	27.8	30	14
S005 - 7/8	7/8	28.5	29.8	30	14
S005 - 15/16	15/16	29.0	31.8	30	14

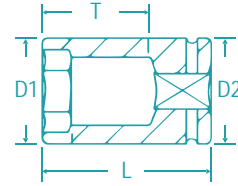
3/8" Dr. 6PT Deep Socket



Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S006 - 6.0	6.0	16.8	10.0	63	15
S006 - 7.0	7.0	16.8	10.8	63	15
S006 - 8.0	8.0	16.8	12.0	63	15
S006 - 9.0	9.0	16.8	13.1	63	15
S006 - 10.0	10.0	16.8	14.7	63	19
S006 - 11.0	11.0	16.8	15.7	63	23
S006 - 12.0	12.0	15.7	16.8	63	23
S006 - 13.0	13.0	16.5	18.8	63	23
S006 - 14.0	14.0	17.5	19.8	63	23
S006 - 15.0	15.0	19.0	21.8	63	23
S006 - 16.0	16.0	19.5	21.8	63	23
S006 - 17.0	17.0	21.5	23.8	63	23
S006 - 18.0	18.0	23.0	25.8	63	23
S006 - 19.0	19.0	23.5	25.8	63	23
S006 - 20.0	20.0	25.0	27.8	63	23
S006 - 21.0	21.0	25.5	27.8	63	23
S006 - 22.0	22.0	26.5	29.8	63	23
S006 - 23.0	23.0	28.5	31.8	63	23
S006 - 24.0	24.0	29.0	31.8	63	23

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S006 - 1/4	1/4	16.8	10.0	63	15
S006 - 9/32	9/32	16.8	10.8	63	15
S006 - 5/16	5/16	16.8	12.0	63	15
S006 - 11/32	11/32	16.8	13.1	63	15
S006 - 3/8	3/8	16.8	14.7	63	19
S006 - 7/16	7/16	16.8	15.7	63	23
S006 - 15/32	15/32	15.7	16.8	63	23
S006 - 1/2	1/2	16.5	18.8	63	23
S006 - 9/16	9/16	17.5	19.8	63	23
S006 - 19/32	19/32	19.0	21.8	63	23
S006 - 5/8	5/8	19.5	21.8	63	23
S006 - 11/16	11/16	21.5	23.8	63	23
S006 - 3/4	3/4	23.5	25.8	63	23
S006 - 25/32	25/32	25.0	27.8	63	23
S006 - 13/16	13/16	25.5	27.8	63	23
S006 - 7/8	7/8	26.5	29.8	63	23
S006 - 15/16	15/16	29.0	31.8	63	23

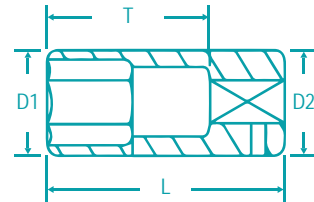
3/8" Dr. 12 PT Socket



Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S007 - 6.0	6.0	16.8	10.0	28	6
S007 - 7.0	7.0	16.8	10.8	28	6
S007 - 8.0	8.0	16.8	12.0	28	6
S007 - 9.0	9.0	16.8	13.1	28	8
S007 - 10.0	10.0	16.8	14.7	28	8
S007 - 11.0	11.0	16.8	15.7	28	8
S007 - 12.0	12.0	15.7	16.8	28	8
S007 - 13.0	13.0	16.5	18.8	28	8
S007 - 14.0	14.0	17.5	19.8	28	11
S007 - 15.0	15.0	19.0	21.8	28	11
S007 - 16.0	16.0	19.5	21.8	28	12
S007 - 17.0	17.0	21.5	23.8	30	12
S007 - 18.0	18.0	23.0	25.8	30	12
S007 - 19.0	19.0	23.5	25.8	30	14
S007 - 20.0	20.0	25.0	27.8	30	14
S007 - 21.0	21.0	25.5	27.8	30	14
S007 - 22.0	22.0	26.5	29.8	30	14
S007 - 24.0	24.0	29.0	31.8	30	14

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S007 - 1/4	1/4	16.8	10.0	28	6
S007 - 9/32	9/32	16.8	10.8	28	6
S007 - 5/16	5/16	16.8	12.0	28	6
S007 - 11/32	11/32	16.8	13.1	28	8
S007 - 3/8	3/8	16.8	14.7	28	8
S007 - 7/16	7/16	16.8	15.7	28	8
S007 - 15/32	15/32	15.7	16.8	28	8
S007 - 1/2	1/2	16.5	17.8	28	8
S007 - 9/16	9/16	17.5	19.8	28	11
S007 - 19/32	19/32	19.0	21.8	28	11
S007 - 5/8	5/8	19.5	21.8	28	12
S007 - 11/16	11/16	21.5	23.8	30	12
S007 - 3/4	3/4	23.5	25.8	30	14
S007 - 25/32	25/32	25.5	27.8	30	14
S007 - 13/16	13/16	26.5	27.8	30	14
S007 - 7/8	7/8	28.5	29.8	30	14
S007 - 15/16	15/16	29.0	31.8	30	14

3/8" Dr. 12 PT Deep Socket



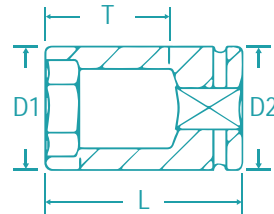
Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S008 - 6.0	6.0	16.8	10.0	63	15
S008 - 7.0	7.0	16.8	10.8	63	15
S008 - 8.0	8.0	16.8	12.0	63	15
S008 - 9.0	9.0	16.8	13.1	63	15
S008 - 10.0	10.0	16.8	14.7	63	19
S008 - 11.0	11.0	16.8	15.7	63	23
S008 - 12.0	12.0	15.7	16.8	63	23
S008 - 13.0	13.0	16.5	18.8	63	23
S008 - 14.0	14.0	17.5	19.8	63	23
S008 - 15.0	15.0	19.0	21.8	63	23
S008 - 16.0	16.0	19.5	21.8	63	23
S008 - 17.0	17.0	21.5	23.8	63	23
S008 - 18.0	18.0	23.0	25.8	63	23
S008 - 19.0	19.0	23.5	25.8	63	23
S008 - 20.0	20.0	25.0	27.8	63	23
S008 - 21.0	21.0	25.5	27.8	63	23
S008 - 22.0	22.0	26.5	29.8	63	23
S008 - 23.0	23.0	28.5	31.8	63	23
S008 - 24.0	24.0	29.0	31.8	63	23

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S008 - 1/4	1/4	16.8	10.0	63	15
S008 - 9/32	9/32	16.8	10.8	63	15
S008 - 5/16	5/16	16.8	12.0	63	15
S008 - 11/32	11/32	16.8	13.1	63	15
S008 - 3/8	3/8	16.8	14.7	63	19
S008 - 7/16	7/16	16.8	15.7	63	23
S008 - 15/32	15/32	15.7	16.8	63	23
S008 - 1/2	1/2	16.5	18.8	63	23
S008 - 9/16	9/16	17.5	19.8	63	23
S008 - 19/32	19/32	19.0	21.8	63	23
S008 - 5/8	5/8	19.5	21.8	63	23
S008 - 11/16	11/16	21.5	23.8	63	23
S008 - 3/4	3/4	23.5	25.8	63	23
S008 - 25/32	25/32	25.0	27.8	63	23
S008 - 13/16	13/16	25.5	27.8	63	23
S008 - 7/8	7/8	26.5	29.8	63	23
S008 - 15/16	15/16	29.0	31.8	63	23

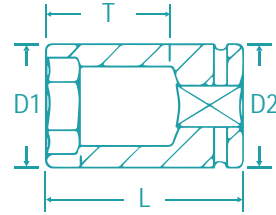
3/8" Dr. Star Socket



Item no.	Size	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S009-E4	E4	16.8	6.5	28	6
S009-E5	E5	16.8	7.0	28	6
S009-E6	E6	16.8	8.0	28	6
S009-E7	E7	16.8	9.0	28	8
S009-E8	E8	16.8	10.5	28	8
S009-E10	E10	16.8	12.0	28	8
S009-E11	E11	16.8	13.0	28	8
S009-E12	E12	16.8	14.0	28	8
S009-E14	E14	17.8	16.0	28	11
S009-E16	E16	19.8	18.0	28	11
S009-E18	E18	21.8	20.0	28	12
S009-E20	E20	23.8	22.0	28	12



1/2" Dr. 6PT Socket

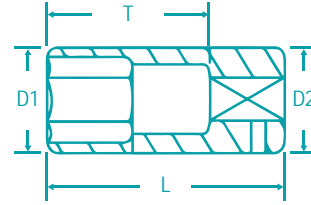


Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S011 -8.0	8.0	21.8	13.2	38	9
S011 -9.0	9.0	21.8	13.9	38	10
S011 -10.0	10.0	21.8	15.0	38	10
S011 -11.0	11.0	21.8	16.3	38	10
S011 -12.0	12.0	21.8	17.6	38	10
S011 -13.0	13.0	21.8	18.8	38	10
S011 -14.0	14.0	21.8	20.4	38	10
S011 -15.0	15.0	21.8	21.0	38	14
S011 -16.0	16.0	24.0	22.0	38	14
S011 -17.0	17.0	24.0	23.8	38	14
S011 -18.0	18.0	23.0	25.8	38	14
S011 -19.0	19.0	23.5	25.8	38	18
S011 -20.0	20.0	24.0	27.8	38	18
S011 -21.0	21.0	25.0	27.8	38	18
S011 -22.0	22.0	26.0	29.8	38	18
S011 -23.0	23.0	27.0	31.8	40	18
S011 -24.0	24.0	28.0	31.8	40	18
S011 -25.0	25.0	30.0	33.8	40	20
S011 -26.0	26.0	30.0	33.8	42	20
S011 -27.0	27.0	30.0	35.8	42	20
S011 -28.0	28.0	32.0	37.8	44	20
S011 -29.0	29.0	32.0	37.8	44	20
S011 -30.0	30.0	34.0	39.8	44	22
S011 -32.0	32.0	36.0	41.8	44	22
S011 -34.0	34.0	38.0	44.0	44	22

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S011 -5/16	5/16	21.8	13.2	38	9
S011 -11/32	11/32	21.8	13.9	38	10
S011 -3/8	3/8	21.8	15.0	38	10
S011 -7/16	7/16	21.8	16.3	38	10
S011 -15/32	15/32	21.8	17.6	38	10
S011 -1/2	1/2	21.8	18.8	38	10
S011 -9/16	9/16	21.8	20.4	38	10
S011 -19/32	19/32	21.8	21.0	38	14
S011 -5/8	5/8	24.0	22.0	38	14
S011 -11/16	11/16	24.0	23.8	38	14
S011 -3/4	3/4	23.5	25.8	38	18
S011 -25/32	25/32	24.0	27.8	38	18
S011 -13/16	13/16	25.0	27.8	38	18
S011 -7/8	7/8	26.0	29.8	38	18
S011 -15/16	15/16	28.0	31.8	40	18
S011 -1	1	30.0	33.8	40	20
S011 -1-1/16	1-1/16	30.0	35.8	42	20
S011 -1-1/8	1-1/8	32.0	37.8	44	20
S011 -1-3/16	1-3/16	34.0	39.8	44	22
S011 -1-1/4	1-1/4	36.0	41.8	44	22



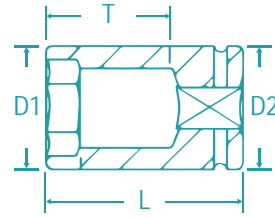
1/2" Dr. 6PT Deep Socket



Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S012 - 8.0	8.0	21.8	13.2	77	12
S012 -9.0	9.0	21.8	13.9	77	12
S012 -10.0	10.0	21.8	15.0	77	12
S012 -11.0	11.0	21.8	16.3	77	12
S012 -12.0	12.0	21.8	17.6	77	12
S012 -13.0	13.0	21.8	18.8	77	12
S012 -14.0	14.0	21.8	20.4	77	15
S012 -15.0	15.0	21.8	21.0	77	15
S012 -16.0	16.0	24.0	22.0	77	15
S012 -17.0	17.0	24.0	23.8	77	15
S012 -18.0	18.0	23.0	25.8	77	18
S012 -19.0	19.0	23.5	25.8	77	18
S012 -20.0	20.0	24.0	27.8	77	18
S012 -21.0	21.0	25.0	27.8	77	18
S012 -22.0	22.0	26.0	29.8	77	21
S012 -23.0	23.0	27.0	31.8	77	24
S012 -24.0	24.0	28.0	31.8	77	24
S012 -25.0	25.0	30.0	33.8	77	24
S012 -26.0	26.0	30.0	33.8	77	24
S012 -27.0	27.0	30.0	35.8	77	27
S012 -28.0	28.0	32.0	37.8	77	27
S012 -29.0	29.0	32.0	37.8	77	27
S012 -30.0	30.0	34.0	39.8	77	30
S012 -32.0	32.0	36.0	41.8	77	32

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S012 -5/16	5/16	21.8	13.2	77	12
S012 -11/32	11/32	21.8	13.9	77	12
S012 -3/8	3/8	21.8	15.0	77	12
S012 -7/16	7/16	21.8	16.3	77	12
S012 -15/32	15/32	21.8	17.6	77	12
S012 -1/2	1/2	21.8	18.8	77	12
S012 -9/16	9/16	21.8	20.4	77	15
S012 -19/32	19/32	21.8	21.0	77	15
S012 -5/8	5/8	24.0	22.0	77	15
S012 -11/16	11/16	24.0	23.8	77	15
S012 -3/4	3/4	23.5	25.8	77	18
S012 -25/32	25/32	24.0	27.8	77	18
S012 -13/16	13/16	25.0	27.8	77	18
S012 -7/8	7/8	26.0	29.8	77	21
S012 -15/16	15/16	28.0	31.8	77	24
S012 -1	1	30.0	33.8	77	24
S012 -1-1/16	1-1/16	30.0	35.8	77	27
S012 -1-1/8	1-1/8	32.0	37.8	77	27
S012 -1-3/16	1-3/16	34.0	39.8	77	30
S012 -1-1/4	1-1/4	36.0	41.8	77	32

1/2" Dr. 12 PT Socket

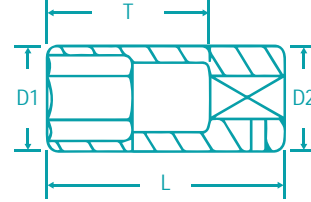


Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S013 - 8.0	8.0	21.8	13.2	38	9
S013 - 9.0	9.0	21.8	13.9	38	10
S013 - 10.0	10.0	21.8	15.0	38	10
S013 - 11.0	11.0	21.8	16.3	38	10
S013 - 12.0	12.0	21.8	17.6	38	10
S013 - 13.0	13.0	21.8	18.8	38	10
S013 - 14.0	14.0	21.8	20.4	38	10
S013 - 15.0	15.0	21.8	21.0	38	14
S013 - 16.0	16.0	23.3	22.0	38	14
S013 - 17.0	17.0	22.0	23.8	38	14
S013 - 18.0	18.0	23.0	25.8	38	14
S013 - 19.0	19.0	23.5	25.8	38	18
S013 - 20.0	20.0	24.0	27.8	38	18
S013 - 21.0	21.0	25.0	27.8	38	18
S013 - 22.0	22.0	26.0	29.8	38	18
S013 - 23.0	23.0	27.0	31.8	40	18
S013 - 24.0	24.0	28.0	31.8	40	18
S013 - 25.0	25.0	30.0	33.8	40	20
S013 - 26.0	26.0	30.0	33.8	42	20
S013 - 27.0	27.0	30.0	35.8	42	20
S013 - 28.0	28.0	32.0	37.8	44	20
S013 - 29.0	29.0	32.0	37.8	44	20
S013 - 30.0	30.0	34.0	39.8	44	22
S013 - 32.0	32.0	36.0	41.8	44	22

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S013 - 5/16	5/16	21.8	13.2	38	9
S013 - 11/32	11/32	21.8	13.9	38	10
S013 - 3/8	3/8	21.8	15.0	38	10
S013 - 7/16	7/16	21.8	16.3	38	10
S013 - 15/32	15/32	21.8	17.6	38	10
S013 - 1/ 2	1/ 2	21.8	18.8	38	10
S013 - 9/16	9/16	21.8	20.4	38	10
S013 - 19/32	19/32	21.8	21.0	38	14
S013 - 5/8	5/8	24.0	24.0	38	14
S013 - 11/16	11/16	24.0	24.0	38	14
S013 - 3/ 4	3/ 4	23.5	25.8	38	18
S013 - 13/16	13/16	25.0	27.8	38	18
S013 - 7/8	7/8	26.0	29.8	40	18
S013 - 15/16	15/16	28.0	31.8	40	18
S013 - 1	1	30.0	33.8	42	20
S013 - 1-1/16	1-1/16	30.0	25.8	44	20
S013 - 1-1/8	1-1/8	32.0	37.8	44	20
S013 - 1-3/16	1-3/16	34.0	39.8	44	22
S013 - 1-1/ 4	1-1/ 4	36.0	41.8	44	22



1/2" Dr. 12 PT Deep Socket



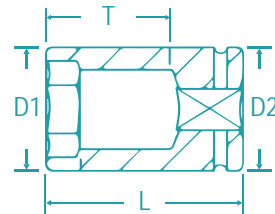
Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S014 - 8.0	8.0	21.8	13.2	77	12
S014 -9.0	9.0	21.8	13.9	77	12
S014 -10.0	10.0	21.8	15.0	77	12
S014 -11.0	11.0	21.8	16.3	77	12
S014 -12.0	12.0	21.8	17.6	77	12
S014 -13.0	13.0	21.8	18.8	77	12
S014 -14.0	14.0	21.8	20.4	77	15
S014 -15.0	15.0	21.8	21.0	77	15
S014 -16.0	16.0	23.3	22.0	77	15
S014 -17.0	17.0	22.0	23.8	77	15
S014 -18.0	18.0	23.0	25.8	77	18
S014 -19.0	19.0	23.5	25.8	77	18
S014 -20.0	20.0	24.0	27.8	77	18
S014 -21.0	21.0	25.0	27.8	77	18
S014 -22.0	22.0	26.0	29.8	77	21
S014 -23.0	23.0	27.0	31.8	77	24
S014 -24.0	24.0	28.0	31.8	77	24
S014 -25.0	25.0	30.0	33.8	77	24
S014 -26.0	26.0	30.0	33.8	77	24
S014 -27.0	27.0	30.0	35.8	77	27
S014 -28.0	28.0	32.0	37.8	77	27
S014 -29.0	29.0	32.0	37.8	77	27
S014 -30.0	30.0	34.0	39.8	77	30
S014 -32.0	32.0	36.0	41.8	77	32

Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S014 -3/8	3/8	21.8	15.0	77	12
S014 -7/16	7/16	21.8	16.3	77	12
S014 -15/32	15/32	21.8	17.6	77	12
S014 -1/2	1/2	21.8	18.8	77	12
S014 -9/16	9/16	21.8	20.4	77	15
S014 -19/32	19/32	21.8	21.0	77	15
S014 -5/8	5/8	24.0	22.0	77	15
S014 -11/16	11/16	24.0	23.8	77	15
S014 -3/4	3/4	23.5	25.8	77	18

1/2" Dr. Star Socket



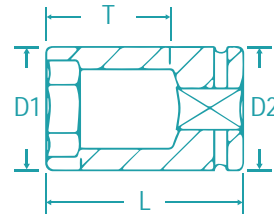
Item no. (Frosty)	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S015 - E10	E10	21.8	13.2	38	9.0
S015 - E11	E11	21.8	13.7	38	9.5
S015 - E12	E12	21.8	15.0	38	10.0
S015 - E14	E14	21.8	16.5	38	10.5
S015 - E16	E16	21.8	18.7	38	12.0
S015 - E18	E18	21.8	20.5	38	13.0
S015 - E20	E20	22.0	23.8	38	14.0
S015 - E22	E22	23.0	25.8	38	15.0
S015 - E24	E24	25.0	27.8	38	16.3



3/4" Dr. 6PT Socket



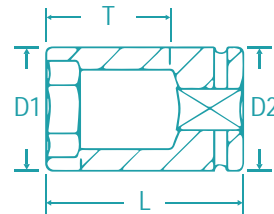
Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S017 - 19.0	19.0	33.0	29.0	50	13
S017 -21.0	21.0	33.0	31.0	50	13
S017 -22.0	22.0	36.0	32.0	50	14
S017 -23.0	23.0	36.0	33.0	50	14
S017 -24.0	24.0	36.0	34.0	50	16
S017 -26.0	26.0	36.0	38.0	52	17
S017 -27.0	27.0	36.0	38.0	52	18
S017 -28.0	28.0	36.0	40.0	52	18
S017 -29.0	29.0	38.0	40.0	52	18
S017 -30.0	30.0	38.0	42.0	54	20
S017 -32.0	32.0	38.0	44.0	56	22
S017 -33.0	33.0	38.0	46.0	56	22
S017 -35.0	35.0	42.0	48.0	58	25
S017 -36.0	36.0	42.0	50.0	58	25
S017 -38.0	38.0	45.0	52.0	60	25
S017 -41.0	41.0	45.0	56.0	64	28
S017 -46.0	46.0	48.0	62.0	68	31
S017 -50.0	50.0	48.0	68.0	72	34
S017 -55.0	55.0	48.0	74.0	76	37
S017 -60.0	60.0	48.0	80.0	78	38



3/4" Dr. 12 PT Socket

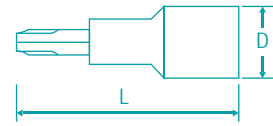


Item no.	Size [mm]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S018 - 19.0	19.0	33.0	29.0	50	13
S018 -21.0	21.0	33.0	31.0	50	13
S018 -22.0	22.0	36.0	32.0	50	14
S018 -23.0	23.0	36.0	32.0	50	14
S018 -24.0	24.0	36.0	32.0	50	14
S018 -26.0	26.0	36.0	38.0	52	17
S018 -27.0	27.0	36.0	38.0	52	18
S018 -29.0	29.0	38.0	40.0	52	18
S018 -30.0	30.0	38.0	42.0	54	20
S018 -32.0	32.0	38.0	44.0	56	22
S018 -35.0	35.0	42.0	48.0	58	25
S018 -36.0	36.0	42.0	50.0	58	25
S018 -38.0	38.0	45.0	52.0	60	25
S018 -41.0	41.0	45.0	56.0	64	28
S018 -44.0	44.0	48.0	60.0	66	28
S018 -50.0	50.0	48.0	68.0	72	34
S018 -55.0	55.0	48.0	74.0	76	37



Item no.	Size [inch]	D1 [mm]	D2 [mm]	L [mm]	T [mm]
S018 - 7/8	7/8	36.0	32.0	50	14
S018 -15/16	15/16	36.0	32.0	50	14
S018 -1	1	36.0	38.0	50	17
S018 -1-1/16	1-1/16	36.0	38.0	52	18
S018 -1-1/8	1-1/8	38.0	40.0	52	18
S018 -1-3/16	1-3/16	38.0	42.0	54	20
S018 -1-1/4	1-1/4	38.0	44.0	56	22
S018 -1-5/16	1-5/16	39.0	46.0	56	22
S018 -1-3/8	1-3/8	42.0	48.0	58	25
S018 -1-7/16	1-7/16	42.0	50.0	58	25
S018 -1-1/2	1-1/2	45.0	52.0	60	25
S018 -1-5/8	1-5/8	45.0	56.0	64	28
S018 -1-7/8	1-7/8	48.0	64.0	70	34

Phillips Bit Socket



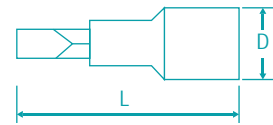
1/4" Dr. Phillips Bit Socket

Item no.	Size	D [mm]	L [mm]
S019 - PH0	PH0	11.9	37
S019 - PH1	PH1	11.9	37
S019 - PH2	PH2	11.9	37
S019 - PH3	PH3	11.9	37
S019 - PH4	PH4	11.9	37

3/8" Dr. Phillips Bit Socket

Item no.	Size	D [mm]	L [mm]
S020 - PH1	PH1	17.9	48
S020 - PH2	PH2	17.9	48
S020 - PH3	PH3	17.9	48

Slotted Bit Socket



1/4" Dr. Slotted Bit Socket

Item no.	Size [mm]	D [mm]	L [mm]
S021 - 3.0	3.0	11.9	37
S021 - 4.0	4.0	11.9	37
S021 - 5.0	5.0	11.9	37
S021 - 4.5	4.5	11.9	37
S021 - 5.5	5.5	11.9	37
S021 - 6.5	6.5	11.9	37
S021 - 7.0	7.0	11.9	37
S021 - 8.0	8.0	11.9	37

3/8" Dr. Slotted Bit Socket

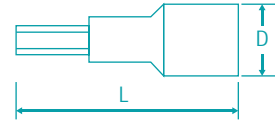
Item no.	Size [mm]	D [mm]	L [mm]
S022 - 4.0	4.0	11.9	37
S022 - 4.5	4.5	17.9	48
S022 - 5.0	5.0	17.9	48
S022 - 5.5	5.5	17.9	48
S022 - 6.5	6.5	17.9	48
S022 - 8.0	8.0	17.9	48
S022 - 10.0	10.0	17.9	48

1/2" Dr. Slotted Bit Socket

Item no.	Size [mm]	D [mm]	L [mm]
S023- 8.0	8.0	15.2	55
S023- 10.0	10.0	18.2	55
S023-12.0	12.0	20.2	55



Hex Bit Socket

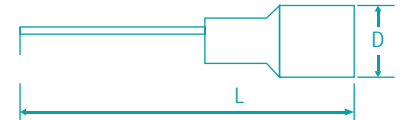
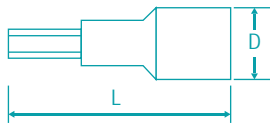


1/4" Dr. Hex Bit Socket

Item no.	Size [mm]	D [mm]	L [mm]
S024- 1.5	1.5	11.9	37
S024- 2.0	2.0	11.9	37
S024-2.5	2.5	11.9	37
S024- 3.0	3.0	11.9	37
S024- 4.0	4.0	11.9	37
S024- 5.0	5.0	11.9	37
S024- 6.0	6.0	11.9	37
S024- 7.0	7.0	11.9	37
S024- 8.0	8.0	11.9	37
S024- 1/8	1/8	11.9	37
S024- 5/32	5/32	11.9	37
S024- 3/16	3/16	11.9	37
S024- 7/32	7/32	11.9	37

3/8" Dr. Hex Bit Socket

Item no.	Size [mm]	D [mm]	L [mm]
S025- 3.0	3.0	17.9	48
S025- 4.0	4.0	17.9	48
S025- 5.0	5.0	17.9	48
S025- 6.0	6.0	17.9	48
S025- 7.0	7.0	17.9	48
S025- 8.0	8.0	17.9	48
S025-10.0	10.0	17.9	48
S025-12.0	12.0	17.9	48
S025- 1/8	1/8	17.9	48
S025- 5/32	5/32	17.9	48
S025- 3/16	3/16	17.9	48
S025- 7/32	7/32	17.9	48
S025- 1/ 4	1/4	17.9	48
S025- 5/16	5/16	17.9	48



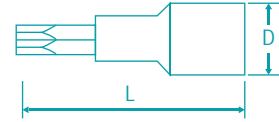
1/2" Dr. Hex Bit Socket

Item no.	Size [mm]	D [mm]	L [mm]
S026- 4.0	4.0	23.9	55
S026-5.0	5.0	23.9	55
S026-6.0	6.0	23.9	55
S026-7.0	7.0	23.9	55
S026-8.0	8.0	23.9	55
S026-10.0	10.0	23.9	55
S026-12.0	12.0	23.9	55
S026-14.0	14.0	23.9	55
S026-17.0	17.0	23.9	55
S026-19.0	19.0	23.9	55
S026- 1/ 4	1/4	23.9	55
S026-5/16	5/16	23.9	55
S026-3/8	3/8	23.9	55
S026-7/16	7/16	23.9	55
S026-1/ 2	1/2	23.9	55
S026-9/16	9/16	23.9	55
S026-5/8	5/8	23.9	55
S026-3/4	3/4	23.9	55

1/2" Dr. Extra Long Hex Bit Socket

Item no.	Size [mm]	D [mm]	L [mm]
S027 - 5.5	5.0	23.9	100
S027 - 5.0	5.0	23.9	138
S027 -6.0	6.0	23.9	100
S027 -7.0	7.0	23.9	100
S027 -8.0	8.0	23.9	100
S027 -10.0	10.0	23.9	100
S027 -12.0	12.0	23.9	100
S027 -12.0	12.0	23.9	138

Torx Bit Socket

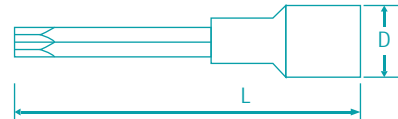
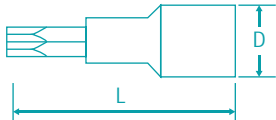


1/4" Dr. Torx Bit Socket

Item no.	Size	D [mm]	L [mm]
S028 - T8	T8	11.9	37
S028 - T10	T10	11.9	37
S028 - T15	T15	11.9	37
S028 - T20	T20	11.9	37
S028 - T25	T25	11.9	37
S028 - T27	T27	11.9	37
S028 - T30	T30	11.9	37
S028 - T40	T40	11.9	37

3/8" Dr. Torx Bit Socket

Item no.	Size	D [mm]	L [mm]
S029 - T15	T15	17.9	48
S029 - T20	T20	17.9	48
S029 - T25	T25	17.9	48
S029 - T27	T27	17.9	48
S029 - T30	T30	17.9	48
S029 - T40	T40	17.9	48
S029 - T45	T45	17.9	48
S029 - T50	T50	17.9	48
S029 - T55	T55	17.9	48



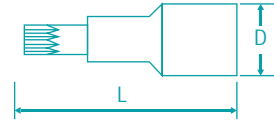
1/2" Dr. Torx Bit Socket

Item no.	Size	D [mm]	L [mm]
S030 - T10	T10	23.9	55
S030 - T15	T15	23.9	55
S030 - T20	T20	23.9	55
S030 - T25	T25	23.9	55
S030 - T27	T27	23.9	55
S030 - T30	T30	23.9	55
S030 - T40	T40	23.9	55
S030 - T45	T45	23.9	55
S030 - T50	T50	23.9	55
S030 - T55	T55	23.9	55
S030 - T60	T60	23.9	55
S030 - T70	T70	23.9	55

1/2" Dr. Extra Long Torx Bit Socket

Item no.	Size	D [mm]	L [mm]
S031 - T27	T27	23.9	100
S031 - T20	T20	23.9	100
S031 - T25	T25	23.9	100
S031 - T30	T30	23.9	100
S031 - T40	T40	23.9	100
S031 - T40	T40	23.9	138
S031 - T45	T45	23.9	100
S031 - T50	T50	23.9	100
S031 - T55	T55	23.9	100
S031 - T55	T55	23.9	138
S031 - T70	T70	23.9	100
S031 - T80	T80	23.9	100
S031 - T99	T99	23.9	100
S031 - T100	T100	23.9	100

Spline Bit Socket

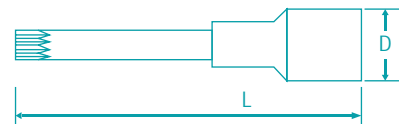


1/4" Dr. Spline Bit Socket

Item no.	Size	D [mm]	L [mm]
S032 - M4	M4	11.9	37
S032 -M5	M5	11.9	37
S032 -M6	M6	11.9	37
S032 -M7	M7	11.9	37
S032 -M8	M8	11.9	37

1/2" Dr. Spline Bit Socket

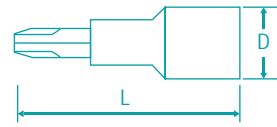
Item no.	Size	D [mm]	L [mm]
S033 - M6	M6	23.9	55
S033 -M8	M8	23.9	55
S033 -M10	M10	23.9	55
S033 -M12	M12	23.9	55



1/2" Dr. Extra Long Spline Bit Socket

Item no.	Size	D [mm]	L [mm]
S034 - M6	M6	23.9	100
S034 -M8	M8	23.9	100
S034 -M10	M10	23.9	100
S034 -M12	M12	23.9	100

Pozi Bit Socket



1/4" Dr. Pozi Bit Socket

Item no.	Size	D [mm]	L [mm]
S035 - PZ0	PZ0	11.9	37
S035 - PZ1	PZ1	11.9	37
S035 - PZ2	PZ2	11.9	37
S035 - PZ3	PZ3	11.9	37
S035 - PZ4	PZ4	11.9	37

3/8" Dr. Pozi Bit Socket

Item no.	Size	D [mm]	L [mm]
S036 - PZ0	PZ0	17.9	48
S036 - PZ1	PZ1	17.9	48
S036 - PZ2	PZ2	17.9	48



Pear Type Ratchet



Application

Used in automotive industries and industrial assembly lines, applicable with sockets and socket bits with the same drive size.

Body

High quality chrome-vanadium alloy steel (CR-V) with satin finish.

Different number of precise mechanism for high torque loads and different application.

Quick release button for rapid socket change.

Forward / reverse selector.

Ergonomic handle.

Available with soft handle and without.



Reversible & Quick Release Ratchet With Soft Grip Handle

Item no.	Drive	Teeth	L [mm]	Weight (g)
S037	1/4"	36	147	128
S038	3/8"	36	202	290
S039	1/2"	36	265	619
S043	1/4"	48	147	128
S044	3/8"	48	202	290
S045	1/2"	48	265	619

Item no.	Drive	Teeth	L [mm]	Weight (g)
S040	1/4"	45	147	128
S041	3/8"	45	202	290
S042	1/2"	45	265	619
S046	1/4"	72	147	128
S047	3/8"	72	202	290
S048	1/2"	72	265	619



Reversible & Quick Release Ratchet With Full Polish Handle

Item no.	Drive	Teeth	L [mm]	Weight (g)
S049	1/4"	36	147	128
S050	3/8"	36	202	290
S051	1/2"	36	265	619
S055	1/4"	48	147	128
S056	3/8"	48	202	290
S057	1/2"	48	265	619

Item no.	Drive	Teeth	L [mm]	Weight (g)
S052	1/4"	45	147	128
S053	3/8"	45	202	290
S054	1/2"	45	265	619
S058	1/4"	72	147	128
S059	3/8"	72	202	290
S060	1/2"	72	265	619

Adapter & 3 Way Adapter



Adaptor

Item no.	Drive	Size(F×M)	L [mm]	Weight (g)
S061 - 1/4"	1/4"	1/4" x 3/8"	26.0	20
S061 - 3/8"	3/8"	3/8" x 1/4"	26.7	24
S061 - 3/8"	3/8"	3/8" x 1/2"	36.2	46
S061 - 1/2"	1/2"	1/2" x 3/8"	35.7	61
S061 - 1/2"	1/2"	1/2" x 3/4"	50.5	140
S061 - 3/4"	3/4"	3/4" x 1/2"	57.0	196



3 Way Adaptor

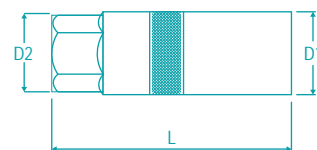
Item no.	Drive	Size(F×M)	L [mm]	Weight (g)
S062 - 3/8"	3/8"	1/2" x 3/8"	40.0	64
S062 - 1/2"	1/2"	3/8" x 1/2"	43.0	94



Spark Plug Socket



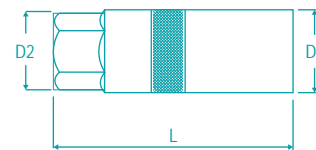
Item no.	Drive	Size (mm)	Size (inch)	L (mm)	D (mm)	Weight (g)
S063 - 3/8"	3/8"	16	5/8"	64	22.0	100
S063 - 3/8"	3/8"	21	13/16"	64	27.8	140
S063 - 1/2"	1/2"	16	5/8"	64	22.0	100
S063 - 1/2"	1/2"	21	13/16"	64	27.8	140



Magnetic Spark Plug Socket



Item no.	Drive	Size (mm)	Size (inch)	L (mm)	D (mm)	Weight (g)
S064 - 3/8"	3/8"	16	5/8"	64	22.0	100
S064 - 3/8"	3/8"	21	13/16"	64	27.8	140
S064 - 1/2"	1/2"	16	5/8"	64	22.0	100
S064 - 1/2"	1/2"	21	13/16"	64	27.8	140



Universal Joint



Item no.	Drive	L [mm]	Weight (g)
S065 - 1/4"	1/4"	40	34
S065 - 3/8"	3/8"	54	90
S065 - 1/2"	1/2"	78	160



Magnetic Universal Joint



Item no.	Drive	L [mm]	Weight (g)
S066 - 1/4"	1/4"	45	22
S066 - 3/8"	3/8"	45	43
S066 - 1/2"	1/2"	50	85



Sliding T-Handle



Item no.	Drive	L [mm]	Weight (g)
S067 - 1/4"	1/4"	115	60
S067 - 3/8"	3/8"	165	140
S067 - 3/8"	3/8"	200	180
S067 - 1/2"	1/2"	250	360
S067 - 1/2"	1/2"	300	400
S067 - 3/4"	3/4"	450	1473
S067 - 3/4"	3/4"	500	1510



Extension Bar



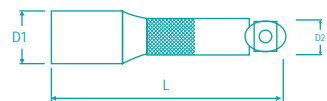
Item no.	Drive	D1 [mm]	D2 [inch]	L [inch/mm]	Weight (g)
S068 - 1/4"	1/4"	8.2	12.0	2 / 50	26
S068 - 1/4"	1/4"	8.2	12.0	3 / 75	38
S068 - 1/4"	1/4"	8.2	12.0	4 / 100	48
S068 - 1/4"	1/4"	8.2	12.0	6 / 150	70
S068 - 3/8"	3/8"	17.8	9.4	50	53
S068 - 3/8"	3/8"	12.2	17.8	3 / 75	83
S068 - 3/8"	3/8"	12.2	17.8	6 / 150	155
S068 - 3/8"	3/8"	12.2	17.8	10 / 250	244
S068 - 1/2"	1/2"	23.9	12.6	50	96
S068 - 1/2"	1/2"	16.7	22.3	3 / 75	160
S068 - 1/2"	1/2"	16.7	22.3	5 / 125	247
S068 - 1/2"	1/2"	23.8	12.6	150	259
S068 - 1/2"	1/2"	16.7	22.3	10 / 250	450
S068 - 1/2"	1/2"	23.7	12.8	500	822
S068 - 3/4"	3/4"	35.6	19.9	200	699
S068 - 3/4"	3/4"	35.6	19.9	400	1376



Wobble Extension Bar



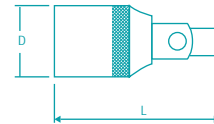
Item no.	Drive	D1 [mm]	D2 [mm]	L [inch/mm]	Weight (g)
S069 - 1/4"	1/4"	8.2	12.0	2 / 50	26
S069 - 1/4"	1/4"	8.2	12.0	3 / 75	38
S069 - 1/4"	1/4"	8.2	12.0	4 / 100	48
S069 - 1/4"	1/4"	8.2	12.0	6 / 150	70
S069 - 3/8"	3/8"	12.2	17.8	3 / 75	83
S069 - 3/8"	3/8"	12.2	17.8	6 / 150	155
S069 - 3/8"	3/8"	12.2	18.0	10 / 250	244
S069 - 1/2"	1/2"	16.7	22.3	3 / 75	160
S069 - 1/2"	1/2"	16.7	22.3	5 / 125	247
S069 - 1/2"	1/2"	16.7	22.3	10 / 250	450



Magnetic Extension Bar



Item no.	Drive	D1 [mm]	D2 [mm]	L [inch]	Weight (g)
S070 - 1/4"	1/4"	4.6	12.0	45	19
S070 - 3/8"	3/8"	12.2	17.8	45	40
S070 - 3/8"	3/8"	12.2	17.8	6 / 150	155
S070 - 3/8"	3/8"	12.2	18.0	10 / 250	244
S070 - 1/2"	1/2"	16.7	22.3	2/50	-
S070 - 1/2"	1/2"	16.7	22.3	3 / 75	160
S070 - 1/2"	1/2"	16.7	22.3	5 / 125	247
S070 - 1/2"	1/2"	16.7	22.3	10 / 250	450



Flexible Extension Bar



Item no.	Size [F×M]	L [mm]	Weight (g)
S071	1/4"(F)x1/4"(M)	150	-



Spinner Handle



Item no.	Drive	L [mm]	Weight (g)
S072	1/4"	150	102



Swivel Handle



Item no.	Drive	L [mm]	Weight (g)
S073 - 1/4"	1/4"	6/150	125
S073 - 3/8"	3/8"	8/200	255
S073 - 3/8"	3/8"	10/250	300
S073 - 1/2"	1/2"	15/380	720
S073 - 1/2"	1/2"	18/460	760
S073 - 1/2"	1/2"	24/600	980



Swivel Handle with Soft Grip Handle



Item no.	Drive	L [mm]	Weight (g)
S074 - 3/8"	3/8"	250	280
S074 - 1/2"	1/2"	250	410
S074 - 1/2"	1/2"	300	483
S074 - 1/2"	1/2"	380	602
S074 - 1/2"	1/2"	450	700



High Torque Ratchet Swivel Handle



Item no.	Drive	L [mm]	Weight (g)
S075 - 1/2"	1/2"	1/2"	1/2"
S075 - 3/4"	3/4"	95	620



Speed Brace



Item no.	Drive	L [mm]	Weight (g)
S076 - 3/8"	3/8"	350	430
S076 - 1/2"	1/2"	400	600



Powerful Swivel Handle



Item no.	Drive	L [mm]	Weight (g)
S077 - 1/2"	1/2"	1/2"	980
S077 - 1/2"	1/2"	1/2"	1170
S077 - 1/2"	1/2"	1/2"	1360



Socket Rail Sets



1/4" Dr. Deep Socket Rail Set (6PT)



Item no.	Description	Size
S078	5 Pcs. 1/4" Dr. Deep Socket on a Clip Rail	6, 8, 10, 12, 14mm
S079	13 Pcs. 1/4" Dr. Deep Socket on a Clip Rail	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm
S080	10 Pcs. 1/4" Dr. Deep SAE Socket on a Clip Rail	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"

1/4" Dr. Star Socket Rail Set



Item no.	Description	Size
S094	5 Pcs. 1/4" Dr. Star Socket on a Clip Rail	E4, E5, E6, E7, E8
S095	7 Pcs. 1/4" Dr. Star Socket on a Clip Rail	E4, E5, E6, E7, E8, E10, E11

3/8" Dr. Socket Rail Set (6PT)



Item no.	Description	Size
S081	6 Pcs. 3/8" Dr. Metric Socket on a Clip Rail	8, 10, 12, 13, 14, 17 mm
S082	13 Pcs. 3/8" Dr. Metric Socket on a Clip Rail	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21mm
S083	13 Pcs. 3/8" Dr. SAE Socket on a Clip Rail	1/4", 5/16", 11/32, 3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 13/16", 7/8"

3/8" Dr. Deep Socket Rail Set (6PT)



Item no.	Description	Size
S084	7 Pcs. 3/8" Dr. Deep Socket on a Clip Rail	10, 12, 13, 14, 15, 17, 19mm
S085	13 Pcs. 3/8" Dr. Deep Socket on a Clip Rail	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21mm

3/8" Dr. Star Socket Rail Set



Item no.	Description	Size
S096	4 Pcs. 3/8" Dr. Star Socket on a Clip Rail	E10, E11, E12, E14
S097	6 Pcs. 3/8" Dr. Star Socket on a Clip Rail	E6, E8, E10, E12, E14, E16
S098	12 Pcs. 3/8" Dr. Star Socket on a Clip Rail	E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18, E20
S099	11 Pcs. 3/8" Dr. Star Socket on a Clip Rail	E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18

1/2" Dr. Socket Rail Set (6PT)



Item no.	Description	Size
S086	11 Pcs. 1/2" Dr. Socket on a Clip Rail	10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22mm

1/2" Dr. Deep Socket Rail Set (6PT)



Item no.	Description	Size
S090	11 Pcs. 1/2" Dr. Deep Socket on a Clip Rail	10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22mm

1/2" Dr. Socket Rail Set (12PT)



Item no.	Description	Size
S087	11 Pcs. 1/2" Dr. Socket on a Clip Rail (12PT)	10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22mm
S088	15 Pcs. 1/2" Dr. Socket on a Clip Rail (12PT)	10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 24, 27, 30, 32mm
S089	15 Pcs. 1/2" Dr. SAE Socket on a Clip Rail (12PT)	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-3/16", 1-1/4"

1/2" Dr. Deep Socket Rail Set (12PT)



Item no.	Description	Size
S091	8 Pcs. 1/2" Dr. Deep Socket on a Clip Rail (12PT)	13, 14, 15, 17, 19, 21, 22, 24mm
S092	8 Pcs. 1/2" Dr. Deep Socket on a Clip Rail (12PT)	13, 14, 15, 16, 17, 18, 19, 24mm
S093	11 Pcs. 1/2" Dr. Deep Socket on a Clip Rail (12PT)	10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22mm

1/2" Dr. Star Socket Rail Set



Item no.	Description	Size
S100	5 Pcs. 1/2" Dr. Star Socket on a Clip Rail	E16, E18, E20, E22, E24
S101	9 Pcs. 1/2" Dr. Star Socket on a Clip Rail	E10, E11, E12, E14, E16, E18, E20, E22, E24

Hex Bit Socket Rail Sets



3/8" Dr. Hex Bit Socket Rail Set

Item no.	Description	Size
S102	7 Pcs. 3/8" Dr. Hex B-bit Socket on a Clip Rail	3, 4, 5, 6, 7, 8, 10mm
S103	9 Pcs. 3/8" Dr. Hex Bit Socket on a Clip Rail	3, 4, 5, 5.5, 6, 7, 8, 10, 12mm
S104	7 Pcs. 3/8" Dr. SAE Hex Bit Socket on a Clip Rail	1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"

1/2" Dr. Hex Bit Socket Rail Set

Item no.	Description	Size
S105	9 Pcs. 1/2" Dr. Hex Bit Socket on a Clip Rail	5, 6, 7, 8, 9, 10, 12, 14, 17mm

3/8" & 1/2" Dr. Hex Bit Socket Rail Set

Item no.	Description	Size
S107	10 Pcs. 3/8" & 1/2" Dr. Hex Bit Socket on a Clip Rail	3/8": 3, 4, 5, 6, 7, 8, 10mm
S108	10 Pcs. 3/8" & 1/2" Dr. SAE Hex Bit Socket on a Clip Rail	1/2": 12, 14, 16mm 3/8": 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8" 3/8"1/2": 1/2", 9/16", 5/8"

1/2" Dr. Extra Long Hex Bit Socket Rail Set

Item no.	Description	Size
S106	6 Pcs. 1/2" Dr. Hex Bit Socket on a Clip Rail	5, 6, 7, 8, 10, 12mm

Torx Bit Socket Rail Set



3/8" Dr. Torx Bit Socket Rail Set

Item no.	Description	Size
S109	6 Pcs. 3/8" Dr. Torx Bit Socket on a Clip Rail	T25, T30, T40, T45, T50, T55
S110	8 Pcs. 3/8" Dr. Torx Bit Socket on a Clip Rail	T15, T20, T25, T27, T30, T40, T45, T50

1/2" Dr. Torx Bit Socket Rail Set

Item no.	Description	Size
S111	7 Pcs. 1/2" Dr. Torx Bit Socket on a Clip Rail	T30, T40, T45, T50, T55, T60, T70
S112	9 Pcs. 1/2" Dr. Torx Bit Socket on a Clip Rail	T20, T25, T27, T30, T40, T45, T50, T55, T60



Socket Set Boxes



17 Pcs. 1/4" Dr. Socket Set

Item no.	Description	
S113	12 Pcs. 1/4" Dr. Socket (6PT) 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm	
	1 Pc. 1/4" Dr. Universal Joint	
	2 Pcs. 1/4" Dr. Extension Bar 100mm	
	1 Pc. 1/4" Dr. Sliding T- Handle	
	1 Pc. 1/4" Dr. Spinner Handle 150mm	
	1 Pc. 1/4" Dr. Ratchet Handle	





35 Pcs. 1/4" Dr. Socket Set

Item no.	Description	
S114	11 Pc. 1/4" Dr. Socket (6PT) 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13mm	
	4 Pcs. 1/4" Dr. Deep Socket (6PT) 8, 10, 12, 13mm	
	2 Pcs. 1/4" Dr. Extension Bar 50, 150mm	
	1 Pc. 1/4" Dr. Universal Joint	
	1 Pc. Bit Coupler 1/4" Dr. x 1/4"	
	1 Pc. 1/4" Dr. Ratchet Handle	
	1 Pc. 1/4" Dr. Swivel Handle 150mm	
	14 Pcs. Bits PZ1, PZ2, PH1, PH2, SL4, SL5.5, SL6.5, H3, H4, H5, H6, T15, T20, T25	

35 Pcs. 3/8" Dr. SAE Socket Set

Item no.	Description	
S116	10 Pcs. 3/8" Dr. Socket (6PT) 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	
	6 Pcs. 3/8" Dr. Deep Socket (6PT) 3/8", 7/16", 1/2", 9/16", 11/16", 3/4"	
	2 Pcs. 3/8" Dr. Extension Bar 75, 150mm	
	1 Pc. 3/8" Dr. Universal Joint	
	1 Pc. 3/8" F x 1/4" M Dr. Adapter	
	2 Pcs. 3/8" Dr. Spark Plug Sockets 16, 21mm	
	1 Pc. 1/2" F x 3/8" M 3 Way Adapter	
	1 Pc. 3/8" Dr. Ratchet Handle	
	11 Pcs. Bits T10, T15, T20, H5, H6, PH1, PH2, PZ1, PZ2, SL4, SL5.5	


1/2" drive socket set with holder-14Pcs

Item no.	Specifications	
6 PTS → S117 12PTS → S118	11Pcs. - 1/2"drive socket (10-11-12-13-14-15-16-17-18-19-21mm)	
	1pc. - 1/2"drive extension bar 6"	
	1pc. - 1/2"drive universal joint	
	1pc. - 1/2"drive ratchet handle	


18 Pcs. 1/2" Dr. Socket Set (6PT/12PT)

Item no.	Specifications	
6 PTS → S119 12PTS → S120	12 Pcs. 1/2" Dr. Socket 10, 12, 13, 14, 17, 19, 21, 22, 24, 27, 30, 32mm	
	1 Pc. 1/2" Dr. Universal Joint	
	3 Pcs. 1/2" Dr. Extension Bar 75, 125, 250mm	
	1 Pc. 1/2" Dr. Swivel Handle 380mm	
	1 Pc. 1/2" Dr Ratchet Handle	





10 Pcs. 1/2" Dr. Hex Bit Socket Set

Item no.	Description	
S124	10 Pcs. 1/2" Dr. Hex Bit Socket H4, H5, H6, H7, H8, H10, H12, H14, H17, H19	

9 Pcs. 1/2" Dr. Torx Bit Socket Set











Item no.	Description	
S125	9 Pcs. 1/2" Dr. Torx Bit Socket T20, T25, T27, T30, T40, T45, T50, T55, T60	

25 Pcs. 3/8" Dr. Metric Socket Set








Item no.	Description	
6 PTS → S130 12PTS → S131	17 Pcs. Socket 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,24mm	
	2 Pcs. Spark Plug Socket 16, 21mm	
	1 Pc. Ratchet Handle	
	1 Pc. Universal Joint	
	1 Pc. Sliding T-Handle 165mm	
	3 Pcs. Extension Bar 75, 150, 250mm	



29 Pcs. 3/8" Dr. Metric Socket Set




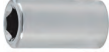




Item no.	Description	
6 PTS → S132 12 PTS → S133	17 Pcs. Socket 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,24mm	
	2 Pcs. Spark Plug Socket 16, 21mm	
	1 Pc. Ratchet Handle	
	1 Pc. Universal Joint	
	1 Pc. Sliding T-Handle 165mm	
	1 Pc. Bit Coupler 3/8" Dr. x 5/16"	
	1 Pc. 3/8"F x 1/4"M Adapter	
	1 Pc. 3/8"F x 1/2"M Adapter	
	1 Pc. Magnetic Extension Bar 45mm	
	3 Pcs. Extension Bar 75, 150, 250mm	

24 Pcs. 1/2" Dr. Metric Socket Set





Item no.	Description	
6 PTS→S135 12 PTS→S136	18 Pcs. -1/2"DR Sockets: 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 27 , 30 , 32mm	
	1 Pc. 1/2"DR Extension Bar 5"	
	1 Pc. 1/2"DR Extension Bar 10"	
	1 Pc. 1/2"DR Spark Plug Socket 21mm	
	1 Pc. 1/2"DR Ratchet Handle	
	1 Pc. 1/2"DR Universal Joint	
	1 Pc. 1/2"DR 3-way Adapter	







29 PCS. 1/2" Dr. Metric Socket Set

Item no.	Description	
6PTS → S137 12 PTS → S138	21 Pcs. Socket 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32mm	
	1 Pc. Ratchet Handle	
	1 Pc. Universal Joint	
	1 Pc. Bit Coupler 1/2" Dr. x 5/16"	
	1 Pc. 1/2"F x 3/8"M Adapter	
	1 Pc. Sliding T-Handle 300mm	
	1 Pc. Magnetic Extension Bar 50mm	
	2 Pcs. Extension Bar 125, 250mm	

14 Pcs. 3/4" Socket Set

Item no.	Description	
6PT → S140 12 PT → S141	10 Pcs. 3/4" Dr.Socket 22; 24; 27; 30; 32; 36; 38; 41; 46; 50 mm	
	1 Pc. Ratchet Handle	
	1 Pc. Sliding T Handle 450 - 18"	
	2 Pcs. - Extension 100 - 4" ; 200 - 8"	

14 Pcs. 1" Socket Set (12 PTS)

Item no.	Description	
S143	10 Pcs. 1" Dr.Socket 36; 41; 46; 50; 55; 60; 65; 70; 75; 80mm	
	1 Pc. Ratchet Handle	
	1 Pc. Sliding T Handle 550 - 22"	
	2 Pcs. Extension 200 - 8" ; 400 - 16"	





General Maintenance Tools



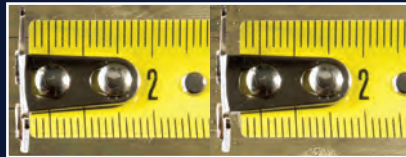
Hector prides itself with its general maintenance tools collection because we believe the story of a great job starts with a measuring tape. In each and every maintenance tool we make sure to provide our consumer with the best quality and effectiveness to ensure your work is done in the best time and most accurate way. Hector general maintenance tools consist of measuring tapes, spirit Levels, riveters and staple guns.

DID YOU KNOW?

1- About Measuring Tapes: When the true zero end hook is a bit loose this is actually a good sign?!

Because the hook pushes in to get an accurate internal measurement and it pulls out to get an accurate external measurement.

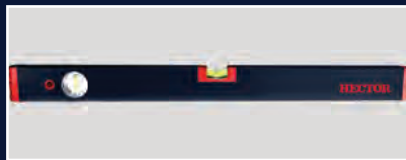
Thus the movement allows you to compensate for its own thickness and provides you with more accurate internal or external measurements.



2 - About Spirit Levels: Do you know how to test the efficiency of a Spirit Level ?

Put the spirit level horizontally on a wall in front of you and make sure that the bubble is exactly between the two lines and draw a line with it, then flip over the level and do the same thing.

If the two drawn lines are parallel that means, there is no problem with your level. You can do the same thing vertically.



3 - About Riveters: How to choose the correct Riveter ?

As a rule of thumb the rivet should be one and half times longer than the combined thickness of the materials being joined.



4 - About Staple Guns: The right gun for the right job

If you want to remove the staples at a later time select the shorter ones, if the work is final and permanent select the longer staples.

If you are stapling fragile materials like, always position the staple across the grain for greater strength.

With some thin materials the staple may tend to cut through, so change to broad crown staple or add a piece of stronger material between the staple crown and the work piece.



Measuring Tape



Application Available in metric and imperial graduations or both.

- Features**
- Auto lock system.
 - Magnetic hook for single person measurement.
 - One pause button.
 - Belt clip and wrist band.
 - Ergonomic soft feel grip.
 - Double printing double color.
 - 30% more thicker.

Part no.	Size	Description
F701	3m x 16mm (10ft)	Metric & Imperial Graduations
F700	5m x 19mm (16ft)	Metric & Imperial Graduations
F702	8m x 25mm (26ft)	Metric & Imperial Graduations
F703	10m x 25mm (33ft)	Metric & Imperial Graduations
F704	3m x 16mm	Metric Only Graduations
F705	5m x 19mm	Metric Only Graduations
F706	8m x 25 mm	Metric Only Graduations
F707	10m x 25 mm	Metric Only Graduations



Measuring Tape Pro



Application Available in metric and imperial graduations or both.

- Features**
- Manual locking mechanism.
 - Magnetic hook for single person measurement with stainless steel protector.
 - Push button retrieval.
 - Belt clip and wrist band.
 - Ergonomic soft feel grip designed to be used by both hands.
 - Nylon coated blade.

Part no.	Size	Description
F715	3m x 16mm (10ft)	Metric & Imperial Graduations
F716	5m x 19mm (16ft)	Metric & Imperial Graduations
F717	8m x 25mm (26ft)	Metric & Imperial Graduations
F718	10mx 25mm (33ft)	Metric & Imperial Graduations
F719	3m x 16mm	Metric Only Graduations
F720	5m x 19mm	Metric Only Graduations
F721	8m x 25mm	Metric Only Graduations
F722	10m x 25mm	Metric Only Graduations



Level Ruler

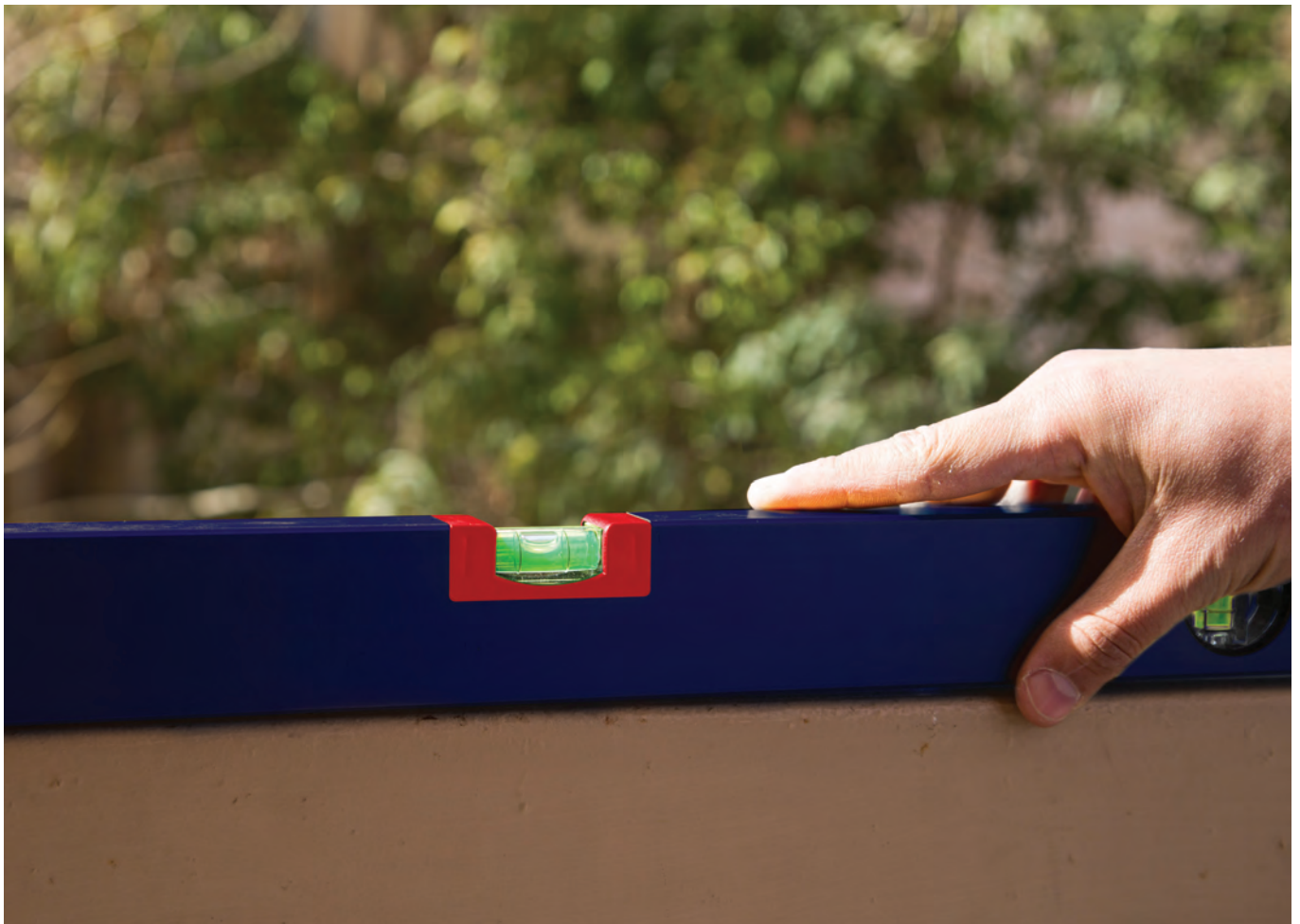
Application For construction leveling and other trades.

Features Available in two types, Regular with 2 vials and "Plus" with 3 vials.
Available with magnet for steel work.

Part no.	Type	Length
F710	Regular	600mm (24")
F712	Regular	1000mm (40")
F710M	Regular with magnet	600mm (24")
F712M	Regular with magnet	1000mm (40")



Part no.	Type	Length
F711	Plus	800mm (32")
F713	Plus	1200mm (48")
F711M	Plus with magnet	800mm (32")
F713M	Plus with magnet	1200mm (48")



Riveter - Lazy Tong



Application

Useful for piecing two or more plates together generally in light construction, light production work and vehicle maintenance.

Handle

High quality plastic grip.

Features

A powerful riveter that can be used with only one hand without affecting its performance. For use with rivet sizes 3, 4 and 5mm diameter.



PN R200

Riveter - Heavy Duty Lazy Tong



Application

Useful for piecing two or more plates together generally in light construction, light production work and vehicle maintenance.

Handle

High quality plastic grip.

Features

A powerful riveter that can be used with only one hand without affecting its performance. Suitable for stainless steel rivets sizes: 3, 4, 5 and 6.4mm diameter.



PN R201



Riveter - Long Arm



Application Handle Features

Useful for assembling two or more plates when working on boat, road or railway vehicles.
High quality plastic grip.
Comes with 4 compatible noses.
The long arms help minimize the torque used when the tool is applied.
For use with rivet sizes 4, 5 and 6mm diameter.



PN R202

Riveter - Heavy Duty



Application Handle Features

Useful for assembling two or more plates in engineering and maintenance work.
High quality plastic grip.
Comes with 3 sizes compatible noses.
For use with rivet sizes 3, 4 and 5mm diameter.



PN R203

Riveter - Heavy Duty Long Nose



Application Handle Features

Useful for assembling two or more plates, suitable in engineering and maintenance work.
High quality plastic grip.
Long nose for easier reach when working with irregular surfaces such as corrugated sheet.
Comes with 4 sizes compatible noses.
For use with rivet sizes 3, 4 and 5mm diameter.



PN R204



Riveter - Easy Grip



Application Handle Features

Suitable for lighter work at homes and small practices.
High quality plastic grip.
Comes with 3 sizes compatible noses.
For use with aluminum rivet sizes 3, 4 and 5mm diameter.



PN R205

Riveter – General Purpose



Application Handle Features

Suitable for general purpose work requiring assembly of plates.
Plastic non-slip handles.
Rivets end are automatically ejected.
Comes with 4 sizes compatible noses.
Spanner for changing the noses is stored in an internal pocket in the handle.
For use with rivet sizes 2, 3, 4 and 5mm diameter.



PN R206



Easy Grip Kit

- Application** Suitable for lighter work at homes and small practices.
- Handle** Easy Grip riveter.
- Features** Comes with 3 sizes compatible noses.
For use with aluminum rivet.
- Kit contains** Easy grip riveter.
An assortment of 3, 4 and 5mm diameter rivets.



PN R101

Heavy Duty Kit

- Kit contains** Heavy duty riveter.
A range containing 200 rivets sizes 3, 4 and 5mm.
Carry box made of strong thick plastic to protect its components.



PN R102

Rivets	Rivet Dia.	Part No.	Maximum Grip	Overall Length to Collar
Short	3mm	R300	2mm	6mm
	4mm	R301	2mm	6mm
	5mm	R302	3mm	7mm
Medium	3mm	R303	3.5mm	8mm
	4mm	R304	5mm	8mm
	5mm	R305	7mm	10mm
Long	3mm	R306	7.5mm	11mm
	4mm	R307	9mm	14mm
	5mm	R308	11mm	16mm

Threaded Insert Rivet Tool



Application

Threaded insert rivet tool specially designed to install threaded nut inserts by hand. Suitable for maintenance and fast repairs.

Features

Comes with 4mm, 5mm, 6mm and 8mm noses and mandrels.



PN R103

Threaded Insert Rivet Tool Kit



Application

Threaded insert rivet tool specially designed to install threaded nut inserts by hand in materials from 0.20" to 0.128". Suitable for maintenance and fast repairs.

Features

One side application.
Flush mounting.
Permanent thread.
Moisture resistant.
Vibration resistant.

Kit contains

Carry box made of strong thick plastic.
Threaded insert setting tool equipped with additional 4mm, 5mm, 6mm and 8mm threaded nut inserts.



PN R104

Heavy Duty Staple Gun

Application	For driving fine wire staples 6 - 12mm into wood or plastic.
Body	Durable all metal construction. All chrome plated.
Features	Fits staples' crown 10.6 - 13mm. Visual low staple refill window. Bottom loading for easy loading & anti-jamming. Safety lock handle mechanism.
Suitable Staples	• Rapid #13, #23, #53



PN M101

Heavy Duty Staple Gun - With Movable Stitch Base

Application	For driving fine wire staples 6 - 13 mm into wood or plastic and can be used as stapler to fasten A4 paper up to 60 sheets.
Body	Durable all metal construction. All chrome plated.
Features	Fits staples' crown 12.7mm. Visual low staple refill window. Bottom loading for easy loading and anti-jamming. Safety lock handle mechanism.
Suitable Staples	Rapid #23



PN M102

Heavy Duty Staple Gun - Cable Stapler



Application For driving fine wire staples 6 - 12mm into wood or plastic, used for cable stapling because the staple stays above objective.

Body Durable all metal construction.
All chrome plated.

Features Fits staples crown 12.7mm.
Visual low staple refill window.
Bottom loading for easy loading & anti-jamming.
Safety lock handle mechanism.

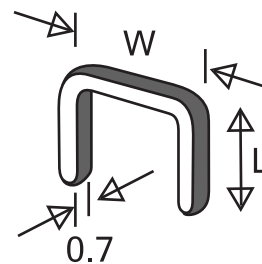
Suitable Staples Rapid #23



PN M103

Staples

Part no.	Staple type	Crow Size	W (mm)	L (mm)	Qty.
M130	Rapid #13	10.6	6	5000	
M131	Rapid #13	10.6	8	5000	
M132	Rapid #13	10.6	10	5000	
M133	Rapid #13	10.6	12	5000	
M230	Rapid #23	12.8	6	5000	
M231	Rapid #23	12.8	8	5000	
M232	Rapid #23	12.8	10	5000	
M233	Rapid #23	12.8	12	5000	
M530	Rapid #53	11.3	6	5000	
M531	Rapid #53	11.3	8	5000	
M532	Rapid #53	11.3	10	5000	
M533	Rapid #53	11.3	12	5000	



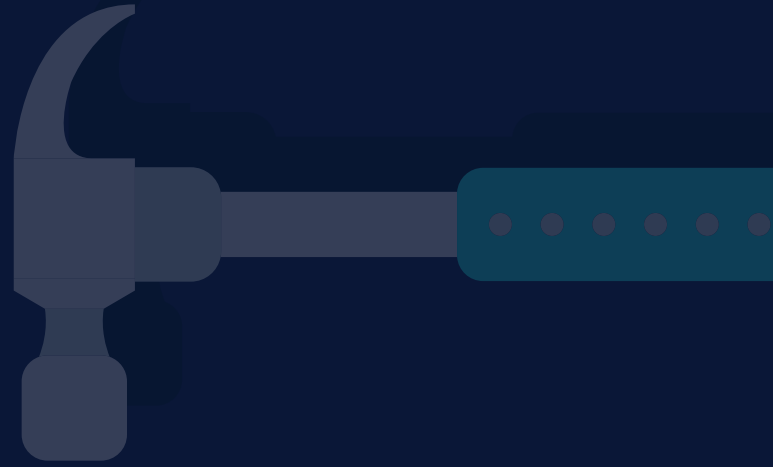


Striking Tools

Hammers, Chisels and Punches are perhaps the most widely used tools, although these tools are a life time investment, they are the most often abused of all hand tools, that's why they should be selected carefully.

Hector provides a highly forged assortment of each tool to give you the ideal striking combination that will improve the quality of your work as well as preserve the life span of your tools.

DID YOU KNOW?



How do you choose a good quality hammer?

The quality of the hammer depends on two main aspects, the material used for the head and the handle, and the purpose of usage.

Materials: Hammer heads are made of different types of steel varying from titanium, copper, brass, babbitt metal to high carbon, heat-treated steel for strength and durability. The heat treatment helps prevent chipping or cracking caused by repeated blows against other metal objects. Special hammers such as the dead-blow hammers have a hollow head filled with small steel shot to give maximum impact with little or no rebound.



The handles may be made from wood or steel or composite material such as plastic. Wood is mainly hickory or straight-grained ash; which is more resilient to absorb the shock of repeated blows, steel, or a composite material (plastic). Steel handles are stronger however they transmit more shock to the user and are subject to rust. Composite handles may be made from fiberglass (reinforced polymer made of a plastic matrix reinforced by fine fibers of glass) which makes it shock absorbent and more resistant to rust than the metal handles.



Ball Pein Hammers



Application Universal hammer with one flat and one ball pein end. Used for striking metal objects.

Features Hickory handle.
Polished and chamfered striking face to avoid chipping.
Polished and hardened ball end.

Part no.	Head Weight (gm)	Overall Length (mm)
T001	113	275
T002	225	300
T003	340	325
T004	454	350
T005	680	396
T006	910	400
T007	1135	416
T008	1360	416



Boiler Scaling Hammer



Application Used by maintenance fitters and welders for the removal of scale from boiler plates.

Features Hickory handle.
Hardened and ground cutting edges.

Part no.	Head Weight (gm)	Overall Length (mm)
T101	454	328



Bricklayers' Hammers



Application Used by bricklayers for cutting and fitting bricks and stonework.

Features Square end for tapping bricks into place, Chisel end for cutting bricks.
Choice of hickory or fiberglass shaft.
Polished head.
Fiberglass shafts provide oil, chemical and water resistance 10 times stronger than timber and 8 times stronger than steel.

Part no.	Head Weight (gm)	Overall Length (mm)	Handle
T111	680	296	Fiberglass
T112	708	296	Hickory



Carpenters' Claw Hammers

Application

Used by carpenters for fixing and removing nails. Should never be used for striking implements such as cold chisels.

Features

Polished striking face and back of claw.

High quality forged head.

Choice of hickory, tubular steel, solid forged steel or anti vibration shaft.

Solid forging provides a shaft integral with the head for superior strength.

Part no.	Head Weight (gm)	Overall Length (mm)	Handle
T201	454	329	Hickory
T202	567	330	Hickory
T203	454	329	Steel
T204	567	330	Solid Steel
T205	454	329	Anti-Vibration
T206	567	330	Anti-Vibration



Club Hammers

Application

Used in the building and construction industry for delivering short heavy blows, e.g. with cold chisels and brick bolsters.

Features

Polished striking face.

Hickory, Fiberglass or anti vibration handles.

Part no.	Head Weight (gm)	Overall Length (mm)	Handle
T301	910	261	Hickory
T302	1820	271	Hickory
T303	910	261	Fiberglass
T304	1820	271	Fiberglass
T305	910	261	Anti-Vibration



Cross Pein Hammer

Application

A small light-weight hammer with a long shaft popular with installation engineers where accurate installation of precision fixings is necessary, used by fitters for assembly work.

Features

Polished striking face and pein edges.

Hickory handle.

Part no.	Head Weight (gm)	Overall Length (mm)
T011	113	325



Sledge Hammers



Application

Used in all industries for heavy work such as demolition or where a strong blow has to be given, e.g. driving home stakes.

Features

Longer handle allows for a greater striking force.
Polished striking face with chamfered edges to avoid chipping.
Choice of hickory or fiberglass shaft.

Part no.	Head Weight (gm)	Overall Length (mm)	Handle
T361	3178	910	Hickory
T362	4540	910	Hickory
T363	6355	910	Hickory
T364	3178	910	Fiberglass
T365	4540	910	Fiberglass
T366	6355	910	Anti-Vibration
T367	8000	910	Fiberglass
T368	10000		Fiberglass



Insulated Club Hammers



Application

Used in the building and construction industry for delivering short heavy blows, e.g. with cold chisels and brick bolsters.

Features

Pinned shaft prevents the grip slipping during use.
Strong poly-fiber shaft has excellent insulating and shock properties.
Choice of hickory or fiberglass shaft.
British Standard BS8020:2011.

Part no.	Head Weight (gm)	Overall Length (mm)	Handle
T311	1135	250	90mmx48mm
T312	1820	250	106mmx52mm



Joiners' Warrington Hammers



Application

A general purpose carpenters hammer used for driving nails and pins. The cross peen is used to start the pin then the hammer is reversed and driven home by the flat end.

Features

High quality forged head.
Polished striking face and peen edges.
Hickory handle.

Part no.	Weight (gm)
T021	227
T022	340
T023	454



Scutch Hammers



Application

Similar in shape to a bricklayers hammer but with a single or double grooved ends for taking scutch combs or chisel bits. Replaceable bits used for cutting stone, brickwork, or for removing mortar prior to work.

Features

Single ended with one striking face and one grooved end.
 Double ended with both ends grooved.
 Hickory handle.



Part no.	Weight (gm)	Type
T121	567	Single Ended
T122	623	Double Ended

Machinist Hammer



Application

Used commonly for blacksmithing. This hammer features a square beveled face and angular cross pein to be used for metal working.

Features

Drop forged carbon steel head.
 Hardened and tempered.
 Hickory or fiberglass handle.

Part no.	Head Weight (gm)	Overall Length (mm)
		Single Ended
T400	100	275
T402	200	300
T403	300	325
T405	500	350
T408	800	400
T410	1000	416



Cold Flat Chisels



- Application** Used to cut and chip metal as well as shaping and breaking stonework.
- Material** High quality chrome-vanadium alloy steel (CR-V).
- Feature** Wear and diffusion resistant.
Requires less sharpening.

Part no.	Length	Blade Width	Octagon Dia.
L001	100mm (4")	6.35mm (1/4")	6.35mm (1/4")
L002	150mm (6")	6.35mm (1/4")	6.35mm (1/4")
L003	125mm (5")	9.5mm (3/8")	9.5mm (3/8")
L004	150mm (6")	9.5mm (3/8")	9.5mm (3/8")
L005	150mm (6")	12.7mm (1/2")	12.7mm (1/2")
L006	205mm (8")	12.7mm (1/2")	12.7mm (1/2")
L007	250mm (10")	12.7mm (1/2")	12.7mm (1/2")
L008	300mm (12")	12.7mm (1/2")	12.7mm (1/2")
L009	150mm (6")	15.9mm (5/8")	12.7mm (1/2")
L010	180mm (7")	15.9mm (5/8")	12.7mm (1/2")
L011	205mm (8")	15.9mm (5/8")	12.7mm (1/2")
L012	250mm (10")	15.9mm (5/8")	12.7mm (1/2")
L013	150mm (6")	19mm (3/4")	15.9mm (5/8")
L014	205mm (8")	19mm (3/4")	15.9mm (5/8")
L015	230mm (9")	19mm (3/4")	15.9mm (5/8")
L016	250mm (10")	19mm (3/4")	15.9mm (5/8")
L017	300mm (12")	19mm (3/4")	15.9mm (5/8")
L018	450mm (18")	19mm (3/4")	15.9mm (5/8")
L019	205mm (8")	25.4mm (1")	22.2mm (7/8")
L020	230mm (9")	25.4mm (1")	22.2mm (7/8")
L021	250mm (10")	25.4mm (1")	22.2mm (7/8")
L022	300mm (12")	25.4mm (1")	22.2mm (7/8")
L023	450mm (18")	25.4mm (1")	22.2mm (7/8")



Crosscut Chisel



- Application** Used to cut or create a hole in machines or electrical parts or other equipment to guarantee correct orientation with another part equipped with a key.
- Material** High quality chrome-vanadium alloy steel (CR-V).
- Feature** Wear and diffusion resistant.
Requires less sharpening.

Part no.	Length	Blade Width	Octagon Dia.
L101	150mm (6")	6.35mm (4/1")	12.7mm (2/1")



Plugging Chisel

- Application** Used to create cavities between bricks.
- Material** High quality chrome-vanadium alloy steel (CR-V).
- Feature** Wear and diffusion resistant.
Requires less sharpening.

Part no.	Length	Blade Width	Octagon Dia.
L102	250mm (10")	6.35mm (4/16")	15.9mm (8/5")



Concrete Point Chisels

- Application** Used for breaching concrete.
- Material** High quality chrome-vanadium alloy steel (CR-V).
- Feature** Wear and diffusion resistant.
Requires less sharpening.

Part no.	Length	Blade Width	Octagon Dia.
L103	250mm (10")	4mm (5/32")	15.9mm (5/8")
L104	300mm (12")	4.8mm (3/16")	19mm (3/4")
L105	300mm (12")	6.35mm (1/4")	25mm (1")



Brick Bolsters

- Application** Used for splitting bricks.
- Material** High quality chrome-vanadium alloy steel (CR-V).
- Feature** Wear and diffusion resistant.
Requires less sharpening.

Part no.	Length	Blade Width	Octagon Dia.
L201	230mm (9")	75mm (3")	19mm (3/4")
L202	230mm (9")	100mm (4")	25mm (1")
L203	230mm (9")	100mm (4")	25mm (1") *with rubber grip



Floorboard Chisel



Application	Used to cut floorboard tongues before removing the board.
Material	High quality chrome-vanadium alloy steel (CR-V).
Feature	Wear and diffusion resistant. Requires less sharpening.

Part no.	Length	Blade Width	Octagon Dia.
L204	230mm (9")	56mm (2 1/4")	17.5mm (1 1/8")



Wood Chisels



Application	Used for carving or cutting or sculpting wood.
Material	Blade: made of high quality chrome-vanadium alloy steel (CR-V). Handle: Soft ergonomic handle.
Feature	Blade: heat treated to maintain strength and sharpness. Handle: equipped with a striking cap at the bottom.

Part no.	Blade Width
L501	3/8" (9mm) Bevel Edge
L502	1/4" (6mm) Bevel Edge
L503	5/8" (15mm) Bevel Edge
L504	3/4" (19mm) Bevel Edge
L505	1/2" (12mm) Bevel Edge
L506	1" (25mm) Bevel Edge
L507	1 1/4" (32mm) Bevel Edge
L508	1 1/2" (38mm) Bevel Edge
L509	2" (50mm) Bevel Edge
L510	3pc Set: 1/2", 3/4", 1"
L511	4pc Set: 1/4", 1/2", 3/4", 1"
L512	6pc Set: 1/4", 3/8", 1/2", 3/4", 1", 1 1/4"
L513	3pc Set: 1/2", 3/4", 1"
L514	6pc Set: 1/4", 3/8", 1/2", 3/4", 1", 1 1/4"



Centre Punches



Application Used to indent, mark, scribe lines and to make indentations in work pieces prior to drilling.

Features Punch point accurately ground to an angle of 90°.

Part no.	Length	Point Diameter	Type
A001	100mm (4")	3.2mm (1/8")	
A002	100mm (4")	4mm (5/32")	
A003	100mm (4")	4.8mm (3/16")	
A004	100mm (4")	6.35mm (1/4")	
A005	100mm (4")	3.2, 4, 4.8, 6.35mm	Wallet Set
A006	100mm (4")	3.2mm	Retail Carded



Nail Punches



Application Used for inserting nail heads under wooden surfaces or carve a simple impression of the tip on wood.

Features Hollow and angled tip points limit to avoid slipping of the nail head.

Part no.	Length	Point Diameter	Type
A101	100mm (4")	1.6mm (1/16")	
A102	100mm (4")	2.4mm (3/32")	
A103	100mm (4")	3.2mm (1/8")	
A104	100mm (4")	4mm (5/32")	
A105	100mm (4")	1.6, 2.4, 3.2, 4mm	Wallet Set
A106	100mm (4")	1.6mm (1/16")	Retail Carded
A107	100mm (4")	2.4mm (3/32")	Retail Carded
A108	100mm (4")	3.2mm (1/8")	Retail Carded
A109	100mm (4")	4mm (5/32")	Retail Carded



Parallel Pin Punches



Application Used to remove metal or wooden pins from a hole.

Part no.	Length	Point Diameter	Type
A201	100mm (4")	1.7mm (1/16")	
A202	100mm (4")	2.3mm (3/32")	
A203	100mm (4")	3.1mm (1/8")	
A204	100mm (4")	3.9mm (5/32")	
A205	100mm (4")	4.7mm (3/16")	
A206	100mm (4")	5.3mm (7/32")	
A207	100mm (4")	6.1mm (1/4")	
A208	150mm (6")	7.6mm (5/16")	
A209	150mm (6")	9.5mm (3/8")	
A210	Set containing 1 of each		Wallet Set



Auto Centre Punches

Application

Used to mark the center of a point for drilling to avoid movement of the drill bit during application.

Features

One handed operation just press on the end with knurled end. Control the depth of impact by adjusting the knurled end.

Part no.	Length	Point Diameter	Type
A301	120mm (4.1116")	100mm (4")	13.5-2.25kg
A302	149mm (5.78")	100mm (4")	22.5-6.3kg



Wrecking Bars

Application

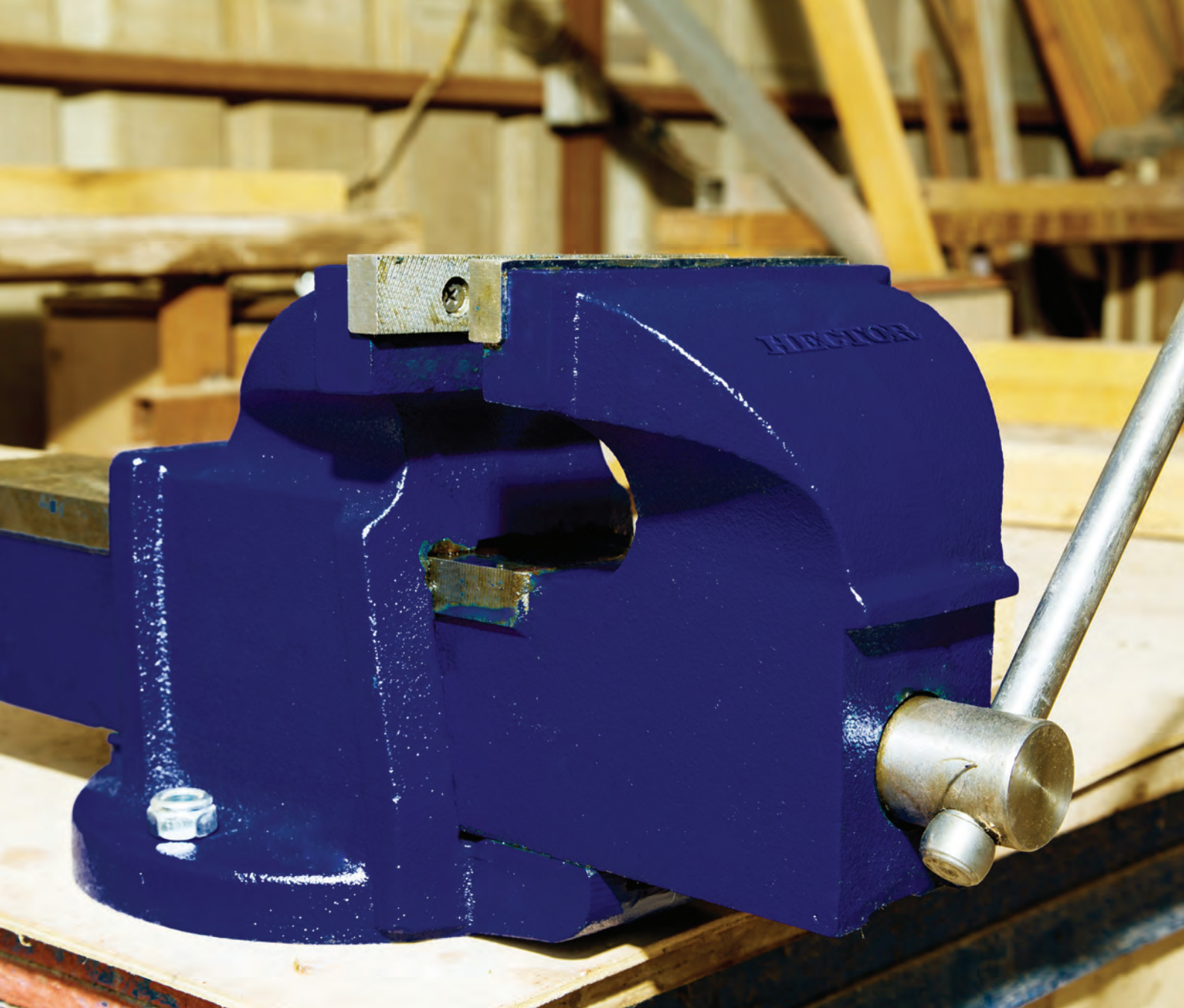
General application is demolishing and breaking up.
Large bars (30" - 36") used for heavy duty work such decimating large wooden structures and wrecking concrete.
Medium bars (18" - 24") used on plasterboard and floorboards.
The light bars (14") used to pull large nails and breaking tough objects.

Features

Heat treated for more durability and strength.

Part no.	Size
A901	350mm (14")
A902	450mm (18")
A903	600mm (24")
A904	750mm (30")
A905	900mm (36")
A906	Boxed set contains: 14" 24" 36" Wrecking bars





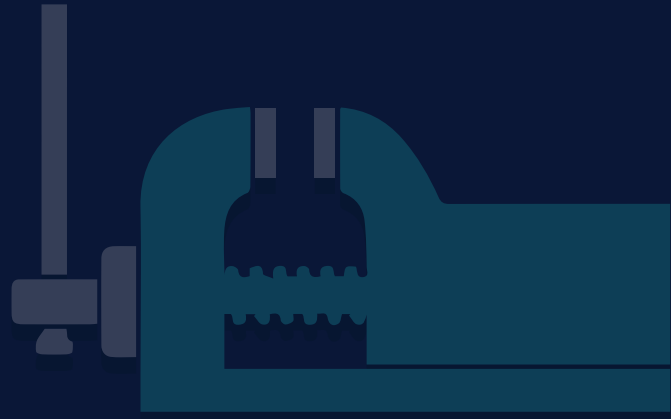
Vices and Clamps



Vices and clamps are mechanical fastening devices used to hold without movement and secure the working environment which allow you to perform any job with precision. These devices are manufactured to suit different surfaces such as woodworking clamps, pipe clamps and others industrial clamps.

Hector understands that the safety of your work is very important and the more stable your station and work pieces are the more precise your end product becomes.

DID YOU KNOW?



Did you know that clamps are either temporary or permanent?

There are many types of clamps available for many different purposes.

Some are temporary, as used to position components while fixing them together, others are intended to be permanent.

Examples of temporary clamps

- Bar clamp or F-clamp
- C-clamp (also G-clamp)
- Forked clamp
- Pipe clamp
- Toggle clamp
- Bench clamp.
- Flooring clamp.
- Magnetic clamp
- Spring clamp
- Toolmakers' clamp

Examples of permanent clamps

- Hose clamp
- Marman clamp
- Wire rope clamp



Mechanics' Vices



Application

Used for general fastening applications on metal and other hard materials.

Material

Body and sliding jaws forged from grey cast iron known for its extreme hardness due to graphite presence in it which is shock resistant and very strong.

Replaceable steel jaws.

Slide is accurately manufactured to withstand high pressure while providing a smoother action.

Steel handle screw.

T-bar bends when the vice is over stressed for additional safety.

Features

Includes holes to fix on benches and other surfaces.

Part no.	Size (Jaw width)	Throat Depth (mm)	Jaw Opening (mm)	Clamping Force (kN)	Net Weight (kg)
H003	75mm (3")	48	82	20	4.8
H004	100mm (4")	63	109	25	9.3
H005	125mm (5")	73	136	30	15.8
H006	150mm (6")	86	168	35	24.2
H008	200mm (8")	103	208	45	38.1



Spare Jaws

Description

Pair of Jaw Plates with screws for Mechanics' vices

Part no.	Size (Jaw width)
H013	75mm (3")
H014	100mm (4")
H015	125mm (5")
H016	150mm (6")
H018	200mm (8")



Woodworking Vices - Quick Release



Application

Used for general fastening applications on wood.

Material

Body forged from grey cast iron known for its extreme hardness due to graphite presence in it which is shock resistant and very strong.

T-bar bends when the vice is over stressed for additional safety.

Features

Provides accurate parallel action.

Equipped with a quick release trigger which opens and closes the vice.

Two in one normal and tail vice as it's equipped with an adjustable stop on the front for easier fastening when used with a bench hook.

Part no.	Weight	Throat Depth (mm)	Jaw Opening (mm)	Net Weight (kg)
H107	178mm (7")	80	202	9.4
H109	230mm (9")	106	260	15.5
H110	254mm (10")	380	380	17.7



Woodworking Vices - Plain Screw



Application

Used for general fastening applications on wood.

Material

Body forged from grey cast iron known for its extreme hardness due to graphite presence in it which is shock resistant and very strong.

T-bar bends when the vice is over stressed for additional safety.

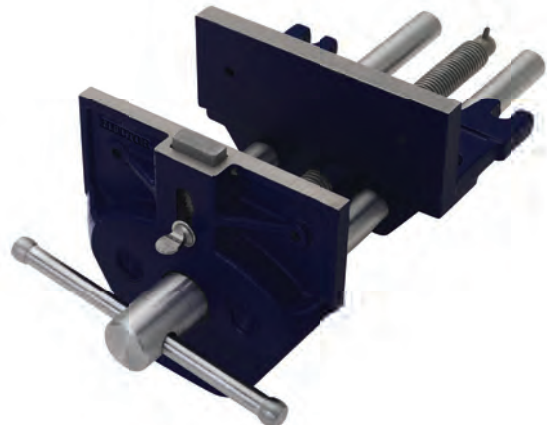
Features

Equipped with an additional screw and nut system under the body, to ensure accurate parallel action.

Equipped with a quick release trigger which opens and closes the vice.

Two in one normal and tail vice as it's equipped with an adjustable stop on the front for easier fastening when used with a bench hook.

Part no.	width	Throat Depth (mm)	Jaw Opening	Net Weight (kg)
H117	175mm (7")	80	200mm (8")	9.4
H119	225mm (9")	106	325mm (13")	15.5



G Clamps - Heavy Duty



Application Used for general fastening applications on metal, wood and other hard materials.

Material Made from unbreakable flexible iron.
T-bar bends when the vice is over stressed for additional safety.

Features Steel swivel with flat end for even pressure application.
Trapezoidal thread for a faster clamping action.
Average clamping force of 300 – 800kg (660 – 1760lbs).

Part no.	Clamping Capacity	Frame Proof Load
H203	75mm (3")	455kg (1000lbs)
H204	100mm (4")	545kg (1200lbs)
H206	150mm (6")	636kg (1400lbs)
H208	200mm (8")	773kg (1700lbs)
H210	250mm (10")	909kg (2000lbs)
H212	300mm (12")	1136kg (2500lbs)



G Clamps - Extra Heavy Duty



Application Used for heavy duty fastening applications such as engineering tasks.

Material Powerful steel body that withstands load up to 2,000kg (4,400lbs).
T-bar bends when the vice is over stressed for additional safety.

Features Steel swivel with flat end for even pressure application.
Large trapezoidal thread for a faster and stronger clamping action.

Part no.	Clamping Capacity	Frame Proof Loads
H303	75mm (3")	1588kg (3500lbs)
H304	100mm (4")	2041kg (4500lbs)
H306	150mm (6")	2268kg (5000lbs)
H308	200mm (8")	2268kg (5000lbs)
H310	250mm (10")	3629kg (8000lbs)
H312	300mm (12")	4218kg (9300lbs)





Drill Bits



Drill bits come in many forms to suit the size and depth of the hole you're drilling as well as the material drilled. There are twist drills, masonry bits and other forms.

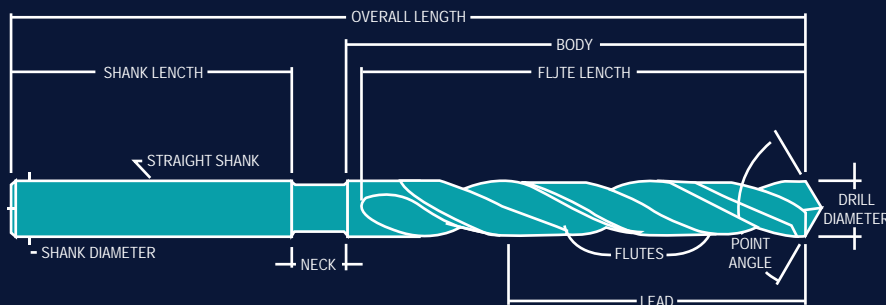
Also, the material used in drill bits determines its application, thus, we use stronger material of drill bit for tougher work surface.

Hector offers a fitting range of bits that suits each and every need you have for all different kind of materials from regular wood to concrete and even steel.

DID YOU KNOW?

Did you know that each part of drill bit is carefully designed for specific uses?

- **The spiral** controls the rate of chip removal in the drill bit . A fast spiral (compact flute) is used when removing a large volume of chips is required while a low spiral (elongated flute) is used when the material has a tendency to clog the hole, such as aluminum or copper.
- **The point angle** determines the correct angle you need to check your material. A harder material requires a larger point angle; a softer material requires a sharper angle.
- **The lip angle** determines the proper amount of lip clearance. Thus, a sharp point angle has more surface contacting the work which requiring an aggressive lip angle, where a flat bit is extremely sensitive to small changes in lip angle due to the small surface contacting the work.
- **The length** determines how deep the bit can go to make a hole.



Drill bit Material

The material of which the drill bit is made is detriment by the usage, for example, bits used on wood has different steel than the ones used for bricks or metal sheet.

To choose the ideal bit for the job you need to know the material:

- **HSS:** a medium-alloyed high speed steel that has a good machinability and performance, HSS exhibits hardness, toughness and wear resistance characteristics that makes it suitable for a wide range of applications such as drills.
- **HSCo:** this high speed steel contains cobalt for increased hot hardness. The composition of HSCo is a superior combination for hardness and toughness; it as well has a good machinability and wear resistance which makes it suitable for drills.

Premium SDS Plus Hammer Drill Bits



Application

Ideal for brick work, concrete, block work and other masonry.

Material

Multi-carbide tip technology combined with precision machining, delivers increased strength and extended life with up to 25% more holes from one bit.

Features

Professional blasting and finishing reduces drill fatigue and increases the strength of the bit. Double flute geometry of the body gives maximum resistance to extreme torsion levels and maximizes speed and penetration rates.



Cross tips



Premium SDS Plus



Multi-material



Double Flutes

Pn.	Diameter	Overall Length (mm)	Working Length (mm)	Pn.	Diameter	Overall Length (mm)	Working Length (mm)	Pn.	Diameter	Overall Length (mm)	Working Length (mm)
J200 6.0X110	6.0	110	50	J200 9.0X110	9.0	110	50	J200 12.0X110	12.0	110	50
J200 6.0X160	6.0	160	100	J200 9.0X160	9.0	160	100	J200 12.0X160	12.0	160	100
J200 6.0X210	6.0	210	150	J200 9.0X210	9.0	210	150	J200 12.0X210	12.0	210	150
J200 6.0X260	6.0	260	200	J200 9.0X260	9.0	260	200	J200 12.0X260	12.0	260	200
J200 6.0X300	6.0	300	250	J200 9.0X300	9.0	300	250	J200 12.0X300	12.0	300	250
J200 6.0X350	6.0	350	300	J200 9.0X350	9.0	350	300	J200 12.0X350	12.0	350	300
J200 6.0X400	6.0	400	350	J200 9.0X400	9.0	400	350	J200 12.0X400	12.0	400	350
J200 6.0X450	6.0	450	400	J200 9.0X450	9.0	450	400	J200 12.0X450	12.0	450	400
J200 7.0X110	7.0	110	50	J200 10.0X110	10.0	110	50	J200 13.0X160	13.0	160	100
J200 7.0X160	7.0	160	100	J200 10.0X160	10.0	160	100	J200 13.0X210	13.0	210	150
J200 7.0X210	7.0	210	150	J200 10.0X210	10.0	210	150	J200 13.0X260	13.0	260	200
J200 7.0X260	7.0	260	200	J200 10.0X260	10.0	260	200	J200 13.0X300	13.0	300	250
J200 7.0X300	7.0	300	250	J200 10.0X300	10.0	300	250	J200 13.0X350	13.0	350	300
J200 7.0X350	7.0	350	300	J200 10.0X350	10.0	350	300	J200 13.0X400	13.0	400	350
J200 7.0X400	7.0	400	350	J200 10.0X400	10.0	400	350	J200 13.0X450	13.0	450	400
J200 7.0X450	7.0	450	400	J200 10.0X450	10.0	450	400	J200 14.0X160	14.0	160	100
J200 8.0X110	8.0	110	50	J200 11.0X110	11.0	110	50	J200 14.0X210	14.0	210	150
J200 8.0X160	8.0	160	100	J200 11.0X160	11.0	160	100	J200 14.0X260	14.0	260	200
J200 8.0X210	8.0	210	150	J200 11.0X210	11.0	210	150	J200 14.0X300	14.0	300	250
J200 8.0X260	8.0	260	200	J200 11.0X260	11.0	260	200	J200 14.0X350	14.0	350	300
J200 8.0X300	8.0	300	250	J200 11.0X300	11.0	300	250	J200 14.0X400	14.0	400	350
J200 8.0X350	8.0	350	300	J200 11.0X350	11.0	350	300	J200 14.0X450	14.0	450	400
J200 8.0X400	8.0	400	350	J200 11.0X400	11.0	400	350				
J200 8.0X450	8.0	450	400	J200 11.0X450	11.0	450	400				



Pn.	Diameter	Overall Length (mm)	Working Length (mm)	Pn.	Diameter	Overall Length (mm)	Working Length (mm)	Pn.	Diameter	Overall Length (mm)	Working Length (mm)
J200 15.0X160	15.0	160	100	J200 18.0X160	18.0	160	100	J200 21.0X210	21.0	210	150
J200 15.0X210	15.0	210	150	J200 18.0X210	18.0	210	150	J200 21.0X260	21.0	260	200
J200 15.0X260	15.0	260	200	J200 18.0X260	18.0	260	200	J200 21.0X300	21.0	300	250
J200 15.0X300	15.0	300	250	J200 18.0X300	18.0	300	250	J200 21.0X350	21.0	350	300
J200 15.0X350	15.0	350	300	J200 18.0X350	18.0	350	300	J200 21.0X400	21.0	400	350
J200 15.0X400	15.0	400	350	J200 18.0X400	18.0	400	350	J200 21.0X450	21.0	450	400
J200 15.0X450	15.0	450	400	J200 18.0X450	18.0	450	400	J200 22.0X210	22.0	210	150
J200 16.0X160	16.0	160	100	J200 19.0X160	19.0	160	100	J200 22.0X260	22.0	260	200
J200 16.0X210	16.0	210	150	J200 19.0X210	19.0	210	150	J200 22.0X300	22.0	300	250
J200 16.0X260	16.0	260	200	J200 19.0X260	19.0	260	200	J200 22.0X350	22.0	350	300
J200 16.0X300	16.0	300	250	J200 19.0X300	19.0	300	250	J200 22.0X400	22.0	400	350
J200 16.0X350	16.0	350	300	J200 19.0X350	19.0	350	300	J200 22.0X450	22.0	450	400
J200 16.0X400	16.0	400	350	J200 19.0X400	19.0	400	350	J200 23.0X210	23.0	210	150
J200 16.0X450	16.0	450	400	J200 19.0X450	19.0	450	400	J200 23.0X260	23.0	260	200
J200 17.0X160	17.0	160	100	J200 20.0X160	20.0	160	100	J200 23.0X300	23.0	300	250
J200 17.0X210	17.0	210	150	J200 20.0X210	20.0	210	150	J200 23.0X350	23.0	350	300
J200 17.0X260	17.0	260	200	J200 20.0X260	20.0	260	200	J200 23.0X400	23.0	400	350
J200 17.0X300	17.0	300	250	J200 20.0X300	20.0	300	250	J200 23.0X450	23.0	450	400
J200 17.0X350	17.0	350	300	J200 20.0X350	20.0	350	300	J200 24.0X210	24.0	210	150
J200 17.0X400	17.0	400	350	J200 20.0X400	20.0	400	350	J200 24.0X260	24.0	260	200
J200 17.0X450	17.0	450	400	J200 20.0X450	20.0	450	400	J200 24.0X300	24.0	300	250
								J200 24.0X350	24.0	350	300
								J200 24.0X400	24.0	400	350
								J200 24.0X450	24.0	450	400

Masonry Drill Bits



- Application** Straight shank bits for use in percussion drilling in concrete, brick, stonework and cement.
- Material** 1 carbide tip with high quality tool steel.
- Features** Double flute geometry of the body gives maximum resistance to extreme torsion levels and maximizes speed and penetration rates.



Multi-material



Double Flutes

Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J100 6.0X100	6.0	100	60
J100 8.0X120	8.0	120	80
J100 10.0X120	10.0	120	90
J100 12.0X150	12.0	150	90

HSS Drill Bits



- Application** Suitable for drilling in steel, cast iron, copper, brass, iron, plastic and general purpose application.
- Material** HSS
- Features**
 - Manufactured to DIN 338 standards with a 118°-point angle that is suitable for drilling into a wide range of materials.
 - Flute geometry designed for rapid removal of the drilled material.
 - Special point.
 - Double color.



118 ° point angle



Double color



Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J700 1.0	1.0	34	12
J700 1.5	1.5	40	18
J700 2.0	2.0	49	24
J700 2.5	2.5	57	30
J700 3.0	3.0	61	33
J700 3.2	3.2	65	36
J700 3.5	3.5	70	39
J700 4.0	4.0	75	43
J700 4.2	4.2	75	43
J700 4.5	4.5	80	47
J700 5.0	5.0	86	52
J700 5.2	5.2	86	52
J700 5.5	5.5	93	57
J700 6.0	6.0	93	57
J700 6.5	6.5	101	63

Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J700 7.0	7.0	109	69
J700 7.5	7.5	109	69
J700 8.0	8.0	117	75
J700 8.5	8.5	117	75
J700 9.0	9.0	125	81
J700 9.5	9.5	125	81
J700 10.0	10.0	133	87
J700 10.5	10.5	133	87
J700 11.0	11.0	142	94
J700 12.0	12.0	151	101
J700 13.0	13.0	151	101
J700 14.0	14.0	160	108
J700 15.0	15.0	169	114
J700 16.0	16.0	178	120

Part no.	Description
J733	HSS Drill Bits Set - 6pc: Contains: 2.0, 3.0, 4.0, 5.0, 6.0, 8.0mm
J734	HSS Drill Bits Set - 19pc: Contains: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0mm
J735	HSS Drill Bits Set - 25pc: Contains: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0mm



HSS CO 5% Drill Bits



- Application** Suitable for drilling in steel, cast iron, copper, brass, iron , plastic and stainless steel.
- Material** HSS co - 5% cobalt .
- Features**
 - Manufactured to DIN 338 standards with a 135°-point angle that is suitable for drilling into a wide range of materials.
 - Flute geometry designed for rapid removal of the drilled material.



135 ° point angle



Cobalt 5 %



Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J800 3.0	3.0	61	33
J800 3.5	3.5	70	39
J800 4.0	4.0	75	43
J800 4.5	4.5	80	47
J800 5.0	5.0	86	52
J800 5.5	5.5	93	57
J800 6.0	6.0	93	57
J800 6.5	6.5	101	63
J800 7.0	7.0	109	69
J800 7.5	7.5	109	69
J800 8.0	8.0	117	75

Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J800 8.5	8.5	117	75
J800 9.0	9.0	125	81
J800 9.5	9.5	125	81
J800 10.0	10.0	133	87
J800 10.5	10.5	133	87
J800 11.0	11.0	142	94
J800 11.5	11.5	142	94
J800 12.0	12.0	151	101
J800 12.5	12.5	151	101
J800 13.0	13.0	151	101

Part no.	Description
J833	HSS Drill Bits Set - 6pc: Contains: 2.0, 3.0, 4.0, 5.0 ,6.0, 8.0mm
J834	HSS Drill Bits Set - 19pc: Contains: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0mm
J835	HSS Drill Bits Set - 25pc: Contains: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0mm

HSS CO 8% Drill Bits



Application

For use when greater heat is generated during drilling e.g. on higher tensile tougher materials and in particular the aerospace industry.

Material

HSS co - 8% cobalt .

Features

Manufactured to DIN 338 standards with a 135°-point angle that is suitable for drilling into a wide range of materials.

Flute geometry designed for rapid removal of the drilled material.



135 ° point angle



Cobalt 8 %



Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J900 1.0	1.0	34	12
J900 1.5	1.5	40	18
J900 2.0	2.0	49	24
J900 2.1	2.1	49	24
J900 2.2	2.2	53	27
J900 2.5	2.5	57	30
J900 3.0	3.0	61	33
J900 3.1	3.1	65	36
J900 3.2	3.2	65	36
J900 3.5	3.5	70	39
J900 4.0	4.0	75	43
J900 4.1	4.1	75	43
J900 4.2	4.2	75	43
J900 4.3	4.3	80	47
J900 4.5	4.5	80	47
J900 5.0	5.0	86	52

Part no.	Diameter (mm)	Overall length (mm)	Working Length (mm)
J900 5.5	5.5	93	57
J900 6.0	6.0	93	57
J900 6.5	6.5	101	63
J900 7.0	7.0	109	69
J900 7.5	7.5	109	69
J900 8.0	8.0	117	75
J900 8.5	8.5	117	75
J900 9.0	9.0	125	81
J900 9.5	9.5	125	81
J900 10.0	10.0	133	87
J900 10.5	10.5	133	87
J900 11.0	11.0	142	94
J900 11.5	11.5	142	94
J900 12.0	12.0	151	101
J900 12.5	12.5	151	101
J900 13.0	13.0	151	101

Part no.	Description
J933	HSS Drill Bits Set - 6pc: Contains: 2.0, 3.0, 4.0, 5.0, 6.0, 8.0mm
J934	HSS Drill Bits Set - 19pc: Contains: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0mm
J935	HSS Drill Bits Set - 25pc: Contains: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0mm





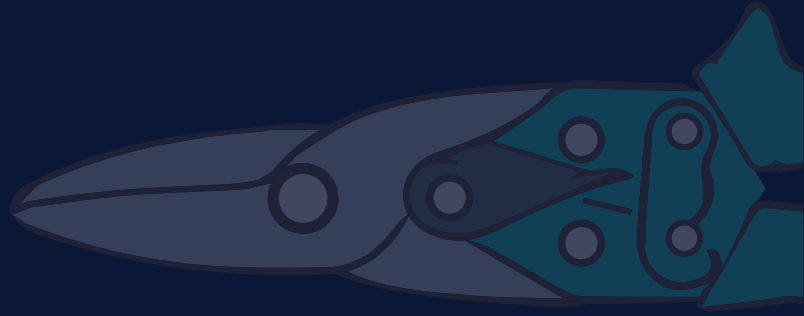
Aviation Snips

Aviation snips are known by this name as they were first developed to cut aluminum in the aircraft industry.

They are widely used because of their design that helps balance force and movement thus increasing the usage advantage without increasing the length of the snips.

HECTOR
tough enough

DID YOU KNOW?



Did you know that the colors of Aviation Snips are a guide for usage?

There are three types of Aviation Snips for three cutting styles especially that metal is stiff and does not cut in curves easily.

Yellow handled snips: for straight cutting especially for flat pieces of metal as they cut straight line and wide curves.

Red handled snips: for tight left curves as well as straight lines (counter-clockwise).

Green handled snips: for tight right curves as well as straight lines (clockwise).



Aviation Cutting Snips

Application

For short straight and shaped cuts up to 1.2 mm cold rolled steel and 0.7 mm stainless steel.

Body

Hot drop-forged blades, made of Chrome-Molybdenum alloy steel for greater strength and durability.

Serrated edges, stable bite prevents slipping.

Equipped with a spring on the handles to guarantee a fast and smooth cut.

Handle

TPR, soft-grip ergonomic handles, solid and comfortable with non-slip design.



Part no.	Description
X001	Straight cut and Wide Curves
X002	Right and Straight cut
X003	Left and Straight cut
X004	Long cut / Straight cut and Wide Curves





Gloves



Industrial gloves are important especially when working on jobs that can be a hazard on your most vital asset, your hands and arms.

Hector gloves come in several types depending on the type of work you do, from general purpose for general safety against puncture or tear to more specific work such as welding that requires fire resistance.

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DID YOU KNOW?



Did you know that gloves have international safety measures?

As any tool that helps you work, gloves have safety levels to ensure the job is done to the most satisfying level. For gloves, the purpose is protection, thus there are 3 levels of protection categories:

Category 1: basic protection for minimal risk jobs, this covers household gloves and gardening gloves.

Category 2: intermediate protection for more complicated jobs. These types of gloves have to be tested by a Notified Body **CE** which is an accredited entity that assesses the product and gives the "OK" that the product meets the standard safety criteria and can be placed in the market.

Category 3: maximum protection against mortal risks. Gloves in this category are designed to protect against the highest levels of risk such as highly corrosive acids. Gloves in this category must also be independently tested and certified by a Notified Body **CE**.

There are different types of tests most importantly:

EN388: this standard is defined for mechanical hazards, it tests the following:

Mechanical Hazard	Rating
Resistance to abrasion	0 - 4
Blades cut resistance.	0 - 5
Tear resistance	0 - 4
Puncture resistance	0 - 4



EN407: this standard is defined for protection against thermal hazards such as:

Thermal Hazard (Heat and/ or fire)	Rating
Burning Behavior	0 - 4
Contact heat	0 - 4
Convective heat	0 - 4
Radiant heat	0 - 4
Small splashes	0 - 4
Large splashes	0 - 4



EN12477: this standard is specially defined for welding gloves and it has two types A and B.

General Purpose Safety Rigger

Application

Ideal for transport, general handling, warehouse work, engineering work and automotive manufacturing and maintenance.

Material

Chrome leather rigger.

Double palm: additional layer of leather covering thumbs, forefingers and palm areas.

Rubber safety cuffs and leather vein patch extension to protect the wrist area.

Internal fleece lining in the palm area for extra comfort.

Features

Maximum EN388.

Abrasion, tear and puncture resistance.

One size.



Part no.

color

RH001

Grey and yellow

RH002

Grey and red



Welding Gloves

Application

Ideal for heavy duty thermal welding and automotive manufacturing.

Material

Premium quality chrome leather welding rigger type A (Mig/Arc welding).

Internal cotton and fleece lining in the palm area for extra comfort.

Features

EN 407: 2004.

En 12477 type A.

Maximum EN388.

Abrasion resistant.

Heat resistant.

Protection from minor splashes of molten metal.



Part no.

Size

color

WH001

35cm / 14 Inch

Red

WH002

35cm / 14 Inch

Yellow

WH003

35cm / 14 Inch

Green

WH010/X

40cm / 16 Inch

Yellow

WH011/X

40cm / 16 Inch

Red

WH012/X

40cm / 16 Inch

Green





Trolleys and Toolboxes



At the end of this tool journey you will need a box to carry all your Hector tools and safely preserves them for future usage.

Hector recognized this need and didn't forget storage. That's why we offer you a combination of trolleys and toolboxes to hold your precious tools.

Each designed to serve your purpose of organization, flexibility and mobility.

All made of high quality and reliable material.

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Mechanical Interlock System 7 Drawer Trolley



- Only one drawer to open at one time.
- Auto return ball bearing slide for smooth opening and closing.
- Drawer capacity: 45 kg per drawer.
- Centralized locking system with folding key.
- 5" x 2" TPR casters-2 swivel casters with double break function and 2 fixed casters.
- Overall: Width 677 x Depth 459 x Height 1000mm.
- Weight: 65Kg



Part no.	Color
Z002	Red
Z003	Blue

Economic 7 Drawer Trolley



- Extra drawer handle for easy open.
- Gas lifts on top chest for opening lid.
- Ball bearing slide.
- Drawer capacity: 30 kg per drawer.
- 5" x 1-1/4" PP casters.
- Overall: Width 685 x Depth 459 x Height 1000mm.
- Weight: 64Kg.



Part no.	Color
Z005	Red
Z006	Blue



Carry Box - Short Arm



Features

Interior divided into 3 compartments for more space.
Equipped with lock to secure your tools.
Made of metal for more durability.

Specifications

Overall: Width 536 x Depth 257 x Height 222mm.
Weight: 8.5Kg.

Part no.	Color
Z102	Red X Dark Blue
Z103	Dark Blue x Light Blue



Carry Box - Long Arm



Features

Interior divided into 3 compartments for more space.
Long arm to balance the load.
Made of metal for more durability.

Specifications

Overall: Width 480 x Depth 220 x Height 250mm.
Weight: 6.5Kg.

Part no.	Color
Z105	Red x Dark Blue
Z106	Dark Blue x Light Blue





HECTOR

tough enough

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