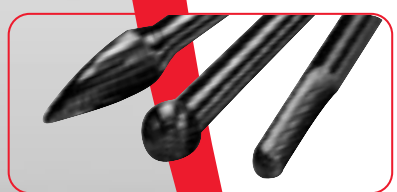




# Accessories Consumables 1.1



# Accessories Contents

QUALITY ACCESSORIES • QUALITY ACCESSORIES • QUALITY ACCESSORIES



Fastening Accessories . . . . *pages 4-29*



Drilling Accessories . . . . . *pages 31-34*



Abrasive Accessories . . . . *pages 35-42*



Cutting, Cleaning &  
Rivetting Accessories . . . . *pages 43-50*



Reference Tables . . . . . *pages 51-55*



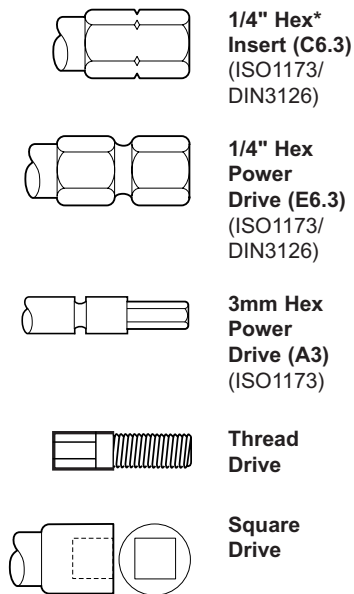
- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Do not use a tool or attachment for a purpose not intended by the manufacturer.

# Accessories

## General Information

- Our Accessories Range is continually evolving. If you cannot find what you require, please ask.
- All the screwdriver bits conform to ISO1173 and DIN3126
- The hardness shown in the tables refer to hardness figures of 54-57 Rc for "Hard" and 61-63 Rc for "Extra Hard".

### Drives



\* **Note:** to be used with a bit holder

### Fastener Head Type



### Symbols

The following symbols are used in this catalogue:

- ⬡ Hexagon Across Flat Size
- ⌀ ID Internal Diameter
- ∅ Diameter
- H Hard
- XH Extra Hard
- Ⓜ Magnetic
- Male Square Drive Size
- Female Square Drive Size
- L Length
- Q/R Quick Release
- ▨ Thread Size

⚠ Throughout this catalogue please note where this symbol occurs, please refer to the relevant safety notes.

Torx®, Torx Plus® are registered trademarks of Camcar Div., Textron Inc.  
ACR®, Pozidriv®, Torq-Set®, Tri-Wing® are registered trademarks of Phillips Screw Co.

All rights reserved. Any unauthorised use or copying of the contents or part thereof is prohibited. This applies in particular to trademarks, model denominations, part numbers and drawings.



For further technical details on application of Screwdrivers see publication LT1153

For information on Ergonomics and workplace design see publication LT198

QUALITY ACCESSORIES • QUALITY ACCESSORIES • QUALITY ACCESSORIES

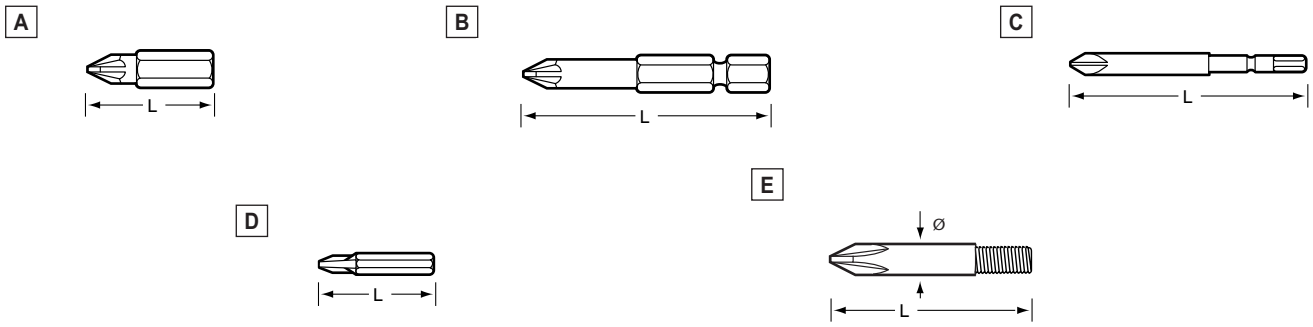


## Fastening Accessories

- ◻ Screwdriver Bits ..... *pages 6-12*
- ◻ Suction Screw Pick-up ..... *page 13*
- ◻ Impulse/Impact Bits ..... *page 14*
- ◻ Bit Holders ..... *page 15*
- ◻ Adaptors ..... *page 16*
- ◻ Nutrunners ..... *page 17*
- ◻ Nose Attachment Kits ..... *page 18*
- ◻ Square Drive Adaptors ..... *page 19*
- ◻ Sockets ..... *pages 20-28*
- ◻ Socket Retention ..... *page 29*



# Screwdriver Bits



## 1/4" HEX INSERT (C6.3)

PICTURE REF	POINT	L		H	XH
		mm	in.		
				part no.	part no.
A	0	25	1"	108082	-
A	1	25	1"	4023110101	110752
A	2	25	1"	4023110102	110762
A	3	25	1"	4023110103	110772
A	1	50	2"	4023110104	-
A	2	50	2"	4023110105	-
A	4	30	1 <sup>3</sup> / <sub>16</sub> "	-	110182

## 1/4" HEX POWER (E6.3)

PICTURE REF	POINT	L		H	XH
		mm	in.		
				part no.	part no.
B	1	50	2"	4023242001	111162
B	2	50	2"	4023242002	111172
B	3	50	2"	4023242003	111182
B	1	70	2 <sup>3</sup> / <sub>4</sub> "	4023242701	111192
B	2	70	2 <sup>3</sup> / <sub>4</sub> "	4023242702	111202
B	3	70	2 <sup>3</sup> / <sub>4</sub> "	4023242703	111222
B	1	89	3 <sup>1</sup> / <sub>2</sub> "	4023243501	111232
B	2	89	3 <sup>1</sup> / <sub>2</sub> "	4023243502	111242
B	3	89	3 <sup>1</sup> / <sub>2</sub> "	4023243523	111252
B	1	150	6"	-	110292
B	2	150	6"	-	110302
B	3	150	6"	-	110322

## 3mm HEX POWER (A3)

PICTURE REF	POINT	L		H	XH
		mm	in.		
				part no.	part no.
C	0	50	2"	-	80782
C	1	50	2"	-	80792

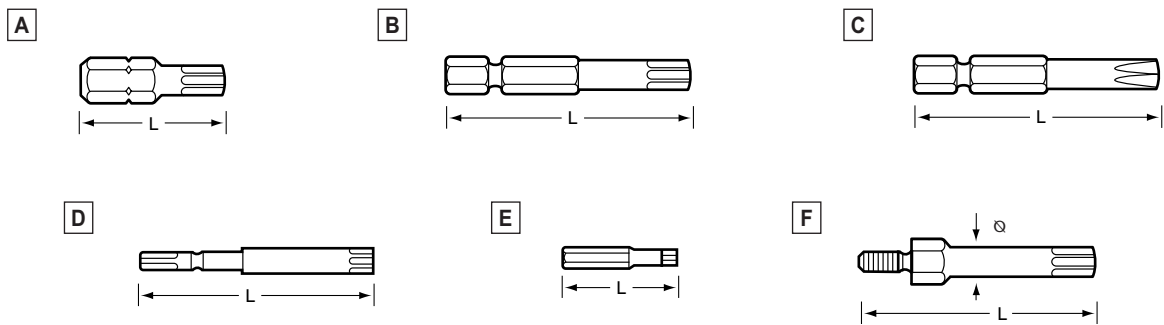
## 4mm HEX INSERT (C4)

PICTURE REF	POINT	L		H	XH
		mm	in.		
				part no.	part no.
D	0	28	1 <sup>1</sup> / <sub>8</sub> "	-	80872
D	1	28	1 <sup>1</sup> / <sub>8</sub> "	-	80882


## THREAD DRIVE

PICTURE REF	POINT	L		Ø	THREAD	XH
		mm	in.			
						part no.
E	1	33	1 <sup>5</sup> / <sub>16</sub> "	6	M4	65422
E	2	33	1 <sup>5</sup> / <sub>16</sub> "	6	M4	65442
E	2	33	1 <sup>5</sup> / <sub>16</sub> "	7	M5	65452
E	2	33	1 <sup>5</sup> / <sub>16</sub> "	8	M6	105732
E	3	33	1 <sup>5</sup> / <sub>16</sub> "	8	M6	105742


# Screwdriver Bits




## 1/4" HEX INSERT (C6.3)

PICTURE REF		L		H		XH 
		mm	in.	part no.	part no.	
A	T6	25	1"	4023132700	–	
A	T7	25	1"	4023132800	–	
A	T8	25	1"	4023132900	–	
A	T9	25	1"	4023133000	–	
A	T10	25	1"	111272	–	
A	T15	25	1"	111282	–	
A	T20	25	1"	111292	–	
A	T25	25	1"	111302	–	
A	T27	25	1"	111322	–	
A	T30	25	1"	111332	–	
A	T40	25	1"	111342	–	

## 1/4" HEX POWER (E6.3)


PICTURE REF		L		H		XH 
		mm	in.	part no.	part no.	
B	T8	50	2"	4023222021	–	
B	T9	50	2"	4023222022	–	
B	T10	50	2"	111352	–	
B	T15	50	2"	111372	–	
B	T20	50	2"	111382	–	
B	T25	50	2"	111392	–	
B	T27	50	2"	111402	–	
B	T30	50	2"	111422	–	
B	T40	50	2"	111432	–	
B	T20	89	3 1/2"	108912	–	

## TORX PLUS 1/4" HEX POWER (E6.3)

PICTURE REF		L		H		XH 
		mm	in.	part no.	part no.	
C	IP8	89	3 1/2"	–	108122	
C	IP10	89	3 1/2"	–	108132	
C	IP15	89	3 1/2"	–	108142	

**NB.** Torx Plus bits cannot be used in standard Torx screws. Standard Torx bits will fit Torx Plus screwheads but drive with limited torque transmissions – see table page 53.


## 3mm HEX POWER (A3)

PICTURE REF		L		H		XH 
		mm	in.	part no.	part no.	
D	T6	50	2"	–	89962	
D	T8	50	2"	–	89972	
D	T10	50	2"	–	89982	

## 4mm HEX INSERT (C4)

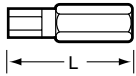
PICTURE REF		L		H		XH 
		mm	in.	part no.	part no.	
E	T6	28	1 1/8"	–	99772	

## THREAD DRIVE

PICTURE REF		L		Ø	THREAD	XH 
		mm	in.			
F	T8	33	1 5/16"	6	M4	105772
F	T10	33	1 5/16"	6	M4	105782
F	T15	33	1 5/16"	6	M4	105792
F	T20	33	1 5/16"	6	M4	105802
F	T25	33	1 5/16"	6	M4	105822
F	T10	33	1 5/16"	7	M5	105832
F	T15	33	1 5/16"	7	M5	105842
F	T20	33	1 5/16"	7	M5	105852
F	T25	33	1 5/16"	7	M5	105862
F	T30	33	1 5/16"	7	M5	105882

# ○ Screwdriver Bits

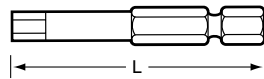
A



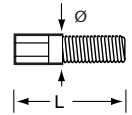
C



B



D



## 1/4" HEX INSERT (C6.3)

PICTURE REF	HEX	L		H	XH
		mm	in.		
A	2.0mm	25	1"	–	110782
A	3/32"	25	1"	–	4023143023
A	2.5mm	25	1"	–	110792
A	3.0mm	25	1"	–	110802
A	1/8"	25	1"	–	4023143025
A	9/64"	25	1"	–	4023143026
A	4.0mm	25	1"	–	110822
A	3/16"	25	1"	–	4023070600
A	5.0mm	25	1"	–	110832
A	7/32"	25	1"	–	4023084800
A	6.0mm	25	1"	–	110842
A	1/4"	25	1"	–	4023094400
A	7.0mm	25	1"	–	4023143000
A	8.0mm	25	1"	–	110852
A	10.0mm	32	1 1/4"	–	110192

## 1/4" HEX POWER (E6.3)

PICTURE REF	HEX	L		H	XH
		mm	in.		
B	2.0mm	50	2"	–	110202
B	2.5mm	50	2"	–	110862
B	3.0mm	50	2"	–	110872
B	4.0mm	50	2"	–	110882
B	5.0mm	50	2"	–	110892
B	6.0mm	50	2"	–	110902
B	8.0mm	50	2"	–	110922
B	10.0mm	50	2"	–	110932

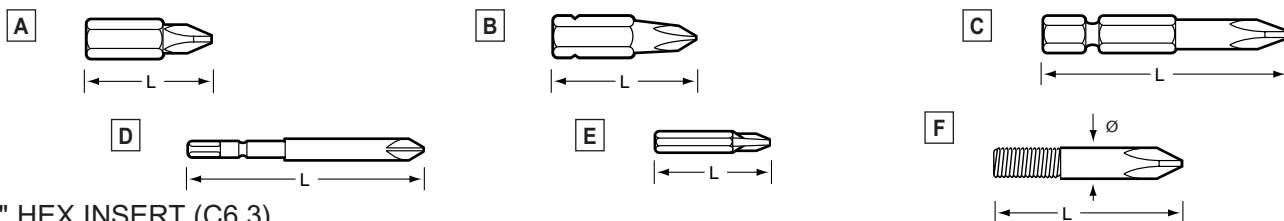
## 4mm HEX INSERT (C4)

PICTURE REF	HEX	L		H	XH
		mm	in.		
C	1.5mm	28	1 1/8"	–	81192
C	2.0mm	28	1 1/8"	–	81202
C	2.5mm	28	1 1/8"	–	81222
C	3.0mm	28	1 1/8"	–	81232

## THREAD DRIVE

PICTURE REF	HEX	L		∅	THREAD	XH
		mm	in.			
D	2.5mm	33	1 5/16"	6	M4	105892
D	3.0mm	33	1 5/16"	6	M4	105902
D	3.0mm	33	1 5/16"	7	M5	105922
D	4.0mm	33	1 5/16"	7	M5	105932
D	5.0mm	33	1 5/16"	8	M6	105942
D	6.0mm	33	1 5/16"	8	M6	105952

# Screwdriver Bits



## 1/4" HEX INSERT (C6.3)

PICTURE REF	POINT	L		H	XH
		mm	in.	part no.	part no.
A	0	25	1"	4023070200	110682
A	1	25	1"	4023069600	110692
A	2	25	1"	4023069700	110702
A	3	25	1"	4023069800	110722
A	4	32	1 1/4"	-	110732
A	1	50	2"	4023142116	-
A	2	50	2"	4023142113	110742
A	3	50	2"	4023142117	-
A	2	70	2 3/4"	-	110172

## REDUCED NOSE DIAMETER 1/4" HEX INSERT (C6.3)

PICTURE REF	POINT	L		H	XH
		mm	in.	part no.	part no.
B	1	25	1"	4023142004	4023142001
B	2	25	1"	4023142002	4023142003

## 1/4" HEX POWER (E6.3)

PICTURE REF	POINT	L		H	XH	ACR
		mm	in.	part no.	part no.	
C	0	50	2"	-	110232	
C	1	50	2"	4023232001	111522	111082
C	2	50	2"	4023232002	111532	111092
C	3	50	2"	4023232003	111542	111102
C	1	70	2 3/4"	-	110242	
C	2	70	2 3/4"	-	110252	
C	3	70	2 3/4"	-	110262	
C	1	89	3 1/2"	4023233501	111552	111122
C	2	89	3 1/2"	4023233502	111562	111132
C	3	89	3 1/2"	4023233503	111572	111142
C	2	152	6"	-	111152	

ACR® = Anti-Cam-out Ribs

## 3mm HEX POWER (A3)

PICTURE REF	POINT	L		H	XH
		mm	in.	part no.	part no.
D	000	50	2"	-	88972
D	00	50	2"	-	82102
D	0	50	2"	-	80762
D	1	50	2"	-	80772

## 4mm HEX INSERT (C4)

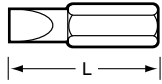
PICTURE REF	POINT	L		H	XH
		mm	in.	part no.	part no.
E	0	28	1 1/8"	-	80852
E	1	28	1 1/8"	-	80862

## THREAD DRIVE

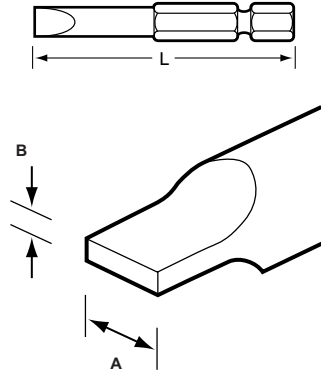
PICTURE REF	POINT	L		Ø	THREAD	XH
		mm	in.	mm		part no.
F	1	33	1 5/16"	6	M4	95902
F	1	33	1 5/16"	7	M5	95942
F	2	33	1 5/16"	7	M5	65382
F	3	33	1 5/16"	8	M6	105762

# Screwdriver Bits

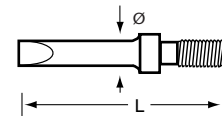
A



B



C



## 1/4" HEX INSERT (C6.3)

PICTURE REF	A		B		L		H	XH
	mm	in.	mm	in.	mm	in.		
A	3.5	0.14"	0.7	0.026"	25	1"	4023140001	4023140021
A	4.0	0.15"	0.8	0.030"	25	1"	-	4023140022
A	4.7	0.17"	0.9	0.034"	25	1"	-	110662
A	4.5	0.18"	0.6	0.024"	25	1"	-	-
A	5.0	0.20"	0.8	0.031"	25	1"	4023141102	-
A	7.1	0.22"	0.9	0.040"	25	1"	-	110672
A	6.3	0.25"	1.0	0.042"	25	1"	-	4023140027
A	8.0	0.31"	1.6	0.063"	25	1"	4023141103	-
A	5.5	0.21"	1.0	0.042"	25	1"	-	110152

## 1/4" HEX POWER (E6.3)

PICTURE REF	A		B		L		H	XH
	mm	in.	mm	in.	mm	in.		
B	3.2	0.12"	0.7	0.026"	50	2"	4023201001	110642
B	3.9	0.15"	0.8	0.032"	50	2"	4023202003	110942
B	4.7	0.19"	0.9	0.034"	50	2"	4023202004	110952
B	5.4	0.22"	0.8	0.032"	50	2"	4023201101	-
B	6.3	0.25"	1.0	0.038"	50	2"	4023202006	110962
B	7.2	0.28"	1.1	0.042"	50	2"	-	110972
B	7.9	0.31"	1.2	0.046"	50	2"	4023201008	-
B	8.0	0.31"	1.6	0.063"	50	2"	-	111002
B	9.1	0.36"	1.3	0.050"	50	2"	-	111022
B	3.2	0.12"	0.7	0.026"	76	3"	4023201501	110652
B	3.9	0.15"	0.8	0.032"	76	3"	-	111032
B	4.7	0.19"	0.9	0.034"	76	3"	-	111042
B	6.3	0.25"	1.0	0.038"	76	3"	-	111052
B	8.0	0.31"	1.2	0.046"	76	3"	-	110082
B	9.1	0.36"	1.3	0.050"	76	3"	-	110092
B	3.2	0.12"	0.7	0.026"	101	4"	-	4023204021
B	3.9	0.15"	0.8	0.032"	101	4"	-	4023204023
B	4.7	0.19"	0.9	0.034"	101	4"	-	4023204024
B	6.3	0.25"	1.0	0.038"	101	4"	-	4023204026
B	7.2	0.28"	1.1	0.042"	101	4"	-	4023204027
B	7.9	0.31"	1.2	0.046"	101	4"	-	4023204028
B	9.1	0.36"	1.3	0.050"	101	4"	-	4023204029

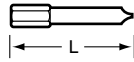
## THREAD DRIVE

PICTURE REF	A		B		L		Ø	THREAD	XH
	mm	in.	mm	in.	mm	in.			
C	4.8		0.6		33		5.5	M4	105962
C	5.5	0.22"	0.6		33		5.5	M4	105972
C	6.0	0.24"	0.7		33		6	M4	105982
C	7.0	0.28"	0.9		33		7	M5	106002
C	7.0	0.28"	1.0		33		7	M5	106022
C	8.0	0.32"	1.0		33		8	M6	106032

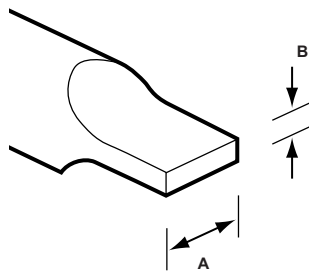
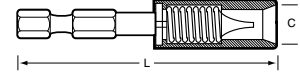
A



B



C



## 3mm HEX POWER A3

PICTURE REF	A		B		L		H		XH
	mm	in.	mm	in.	mm	in.	part no.	part no.	
A	2.0	0.08"	0.3	0.012"	50	2"	–	88962	
A	2.3	0.09"	0.4	0.016"	50	2"	–	80722	
A	3.0	0.12"	0.5	0.020"	50	2"	–	80732	
A	4.0	0.16"	0.6	0.024"	50	2"	–	80742	
A	5.0	0.20"	0.8	0.031"	50	2"	–	80752	
A	6.0	0.24"	0.8	0.031"	100	4"	–	88982	

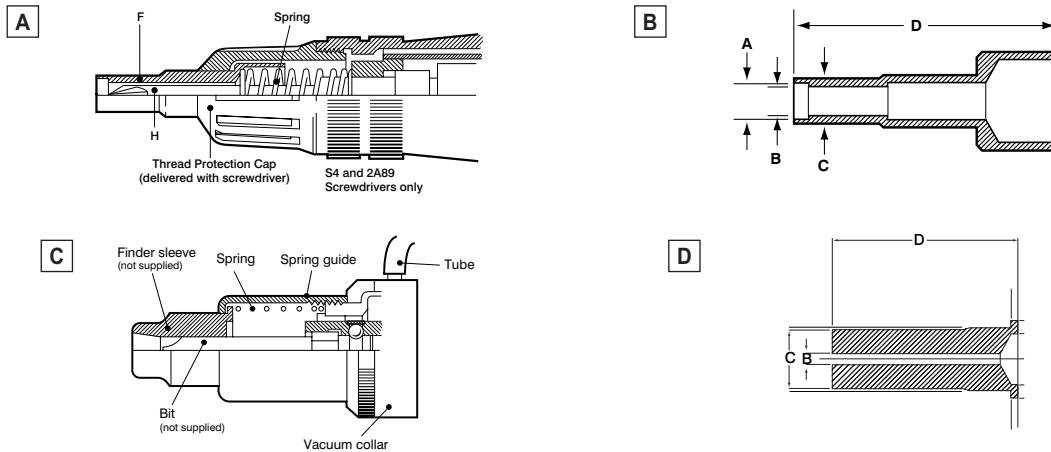
## 4mm HEX INSERT (C4)

PICTURE REF	A		B		L		H		XH
	mm	in.	mm	in.	mm	in.	part no.	part no.	
B	3.0	0.12"	0.5	0.020"	28	1 1/8"	–	80802	
B	4.5	0.18"	0.6	0.024"	28	1 1/8"	–	80832	
B	5.5	0.22"	0.8	0.031"	28	1 1/8"	–	80842	

## COMBINED BIT AND FINDER SLEEVES 1/4" HEX POWER (E6.3)




PICTURE REF	A		B		L		C		XH
	mm	in.	mm	in.	mm	in.	mm	in.	part no.
C	4.9	0.20"	0.91	0.04"	95	3 13/16"	8.0	0.32"	111062
C	6.1	0.24"	1.07	0.04"	95	3 13/16"	9.4	0.38"	111072
C	7.3	0.29"	1.07	0.04"	95	3 13/16"	10.8	0.43"	4023068400
C	8.9	0.36"	1.17	0.05"	95	3 13/16"	11.3	0.45"	4023094900
C	10.0	0.40"	1.27	0.05"	98	3 59/64"	12.6	0.50"	4023068500
C	3.91	0.16"	0.6	0.02"	53	2 1/8"	4.0	0.17"	108032
C	3.91	0.16"	0.7	0.03"	53	2 1/8"	4.0	0.17"	108042
C	7.0	0.28"	1.2	0.05"	95	3 13/16"	9.3	0.37"	110222
C	9.0	0.36"	1.6	0.06"	95	3 13/16"	12.0	0.48"	110122
C	10.0	0.40"	1.6	0.06"	95	3 13/16"	15.0	0.60"	110132
C	12.0	0.48"	2.0	0.08"	95	3 13/16"	16.0	0.64"	110142



# Screwdriver Bits & Finder Sleeves



## FINDER SLEEVES & BITS FOR 3mm HEX POWER (A3) SCREWDRIVER BITS

To use 3mm Hex Power Bits (A3) with Non Rotating Finder Sleeves spring Part No. 280443 will be required.

PICTURE REF			ØA		ØB		ØC		D		F	H 	H 	point size
	Ømm	in.	mm	in.	mm	in.	mm	in.	mm	in.	part no.	part no.	part no.	
A & B	3	0.12"	3.1	0.12"	2.4	0.09"	3.8	0.15"	34	1 <sup>3</sup> / <sub>8</sub> "	81042	80722	80782	0
A & B	3.8	0.15"	3.85	0.15"	3.1	0.125"	4.75	0.19"	34	1 <sup>3</sup> / <sub>8</sub> "	81052	80732	80782	0
A & B	4.3	0.17"	4.6	0.18"	4.1	0.16"	5.45	0.21"	34	1 <sup>3</sup> / <sub>8</sub> "	81062	80742	80792	1
A & B	4.7	0.19"	4.85	0.19"	4.1	0.16"	5.7	0.22"	34	1 <sup>3</sup> / <sub>8</sub> "	81072	80742	80792	1
A & B	5.6	0.22"	5.65	0.22"	5.1	0.2"	6.6	0.26"	34	1 <sup>3</sup> / <sub>8</sub> "	81082	80752	80792	1

PICTURE REF			ØA		ØB		ØC		D		F	H 	point size
	Ømm	in.	mm	in.	mm	in.	mm	in.	mm	in.	part no.	part no.	
A & B	3	0.12"	3.1	0.12"	2.4	0.09"	3.8	0.15"	34	1 <sup>3</sup> / <sub>8</sub> "	81042	88972/82102/80762	000/00/0
A & B	3.8	0.15"	3.85	0.15"	3.1	0.125"	4.75	0.19"	34	1 <sup>3</sup> / <sub>8</sub> "	81052	80762	0
A & B	4.3	0.17"	4.6	0.18"	4.1	0.16"	5.45	0.21"	34	1 <sup>3</sup> / <sub>8</sub> "	81062	80772	1
A & B	4.7	0.19"	4.85	0.19"	4.1	0.16"	5.7	0.22"	34	1 <sup>3</sup> / <sub>8</sub> "	81072	80772	1
A & B	5.6	0.22"	5.65	0.22"	5.1	0.2"	6.6	0.26"	34	1 <sup>3</sup> / <sub>8</sub> "	81082	80772	-
B	Finder Sleeve Blank		-		-		6.6	0.26"	100	4"	88992	-	-

Can be used with suction screw pick-up, see page 13.

## VACUUM SCREW PICK-UP KIT FOR SB & SC/S5 SCREWDRIVERS

PICTURE REF	DESCRIPTION	PICTURE REF	DESCRIPTION
			part no.
C	Kit (SC+S5): 1/4" hex (F6, 3)	C	Kit (SB) including: Spring Guide Spring Vacuum collar Vacuum tube (2.3m long) Blank finder sleeve machining instructions
	75152		108892 464213 464223 464233 111223 464183

Note: Finder sleeves to suit screw/screwdriver bit must be machined from plastic or steel blanks (see below).

## NON-ROTATING FINDER SLEEVE KIT FOR SB SCREWDRIVERS

PICTURE REF	DESCRIPTION	part no.
C	Kit including: Spring guide Spring Blank finder sleeve machining instructions	108902 464203 464223 464183

Note: Finder sleeves to suit screw/screwdriver bit must be machined from plastic or steel blanks (see below).

PICTURE REF	DESCRIPTION	ØB		ØC		D		part no.
		mm	in.	mm	in.	mm	in.	
D	Finder Sleeve Blank – Delrin (SB)	3.0	0.12"	14.2	0.6"	105	4.1"	464103
D	Finder Sleeve Blank – Steel (SB)	3.0	0.12"	14.2	0.6"	105	4.1"	464093
D	Finder Sleeve Blank – Steel (SC+S5)	3.35	0.13"	15.6	0.61"	26	1"	464753

# Suction Screw Pick-up



## AIR-POWERED VACUUM ATTACHMENTS FOR BALANCERS

Desoutter HU Hose Reel Balancers and DU Cable Balancers can be simply converted into a vacuum source by fitting a Vacuum Attachment. Vacuum is adjustable and switches off automatically when screwdriver is released.

PICTURE REF	BALANCER TYPE	VACUUM WATER GAUGE (1mm w.g. = 81.1 mbar)						HOSE LENGTH		HOSE BORE	
		mm	in.	l/s	cfm	dB(A)	part no.	m	ft.	mm	in.
A	HU	4570	13"	0.47	1	64	51262	1.6	5 1/2	4	0.16"
B	DU	4570	13"	0.47	1	64	51482	1.6	5 1/2	4	0.16"

## AIR-POWERED AV201 VACUUM UNIT

The AV201 is installed into the air line system by screwing into the gauge port of a combination filter/regulator or into a tee piece between a regulator and lubricator.

PICTURE REF	VACUUM MERCURY GAUGE						AIR INLET	HOSE LENGTH		HOSE BORE	
	mm	in.	l/s	cfm	dB(A)	part no.		m	ft.	mm	in.
C	4570	13"	0.7	1.5	54	112063	1/8"	2.3	7 1/2	4	0.16"

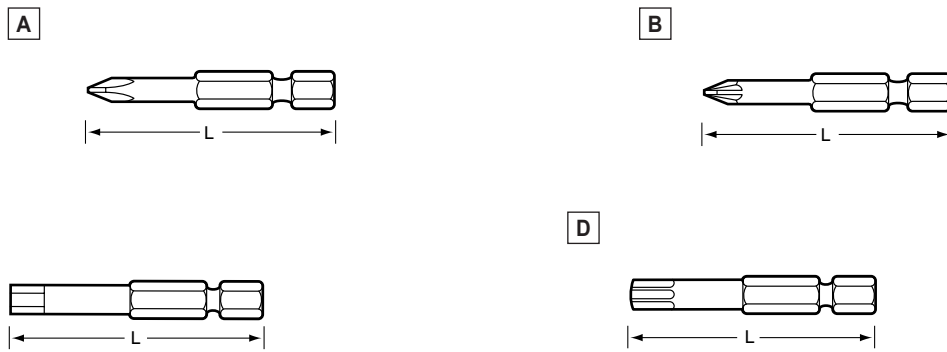
## SHAKER TRAYS

Conveniently aligns screw head upwards for easy pick-up with spring sleeve or suction.

Dimensions (w x l x h) 45/8" x 33/4" x 27/32"

PICTURE REF	SLOT WIDTH		SCREW SIZE		
	mm	in.	mm	BA	part no.
D	1.8	0.071"	M1.4/M1.6	10	9302
D	2.0	0.079"	-	9	9292
D	2.4	0.094"	M2/M2.2	8	9282
D	3.4	0.134"	M3	5	9252
D	3.8	0.150"	M3.5	4	9242
D	4.9	0.193"	M4.5	2	9222

# Impulse/Impact Bits



Designed for use with impact and impulse tools to absorb shock loading.

## 1/4" HEX POWER (E6.3)

PICTURE REF	POINT OR HEX	L		part no.
		mm	in.	
A	2	49	2"	9092012111
A	3	49	2"	9092012141

## 1/4" HEX POWER (E6.3)

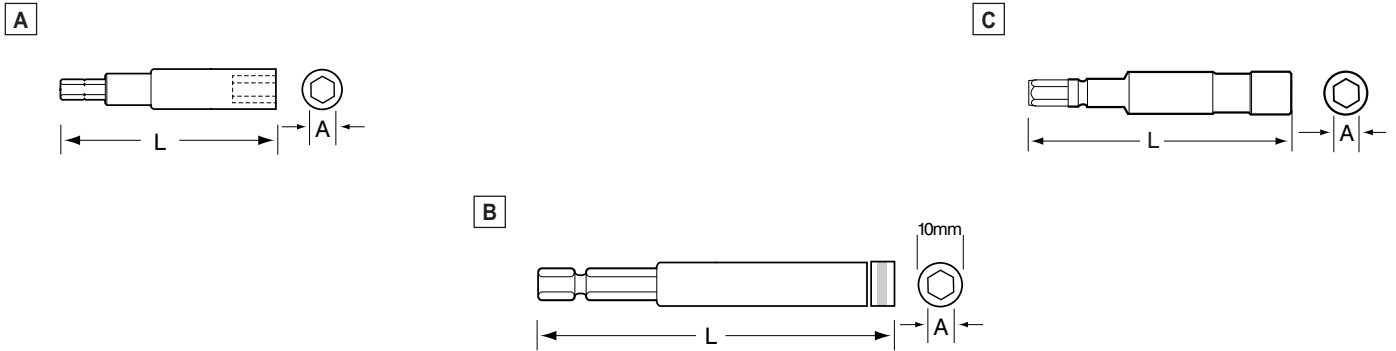
PICTURE REF	POINT OR HEX	L		part no.
		mm	in.	
B	2	49	2"	9092012051
B	3	49	2"	9092012081

## 1/4" HEX POWER (E6.3)

PICTURE REF	POINT OR HEX	L		part no.
		mm	in.	
C	4mm	49	2"	9092012291
C	5mm	49	2"	9092012321
C	6mm	49	2"	9092012351

## 1/4" HEX POWER (E6.3)

PICTURE REF	POINT OR HEX	L		part no.
		mm	in.	
D	T25	49	2"	9092012201
D	T30	49	2"	9092012231



## 1/4" HEX INSERT (C6.3)

PICTURE REF	L		A	⌀	Q/R	part no.
	mm	in.				
A	43.0	1.7"	1/4" Hex Insert (D6.3)	X	X	22322

## 1/4" HEX POWER (E6.3)

PICTURE REF	L		A	⌀	Q/R	part no.
	mm	in.				
B	50.0	2.0"	1/4" Hex Power (E6.3)	X	✓	75782
B	45.0	2.0"	4mm Hex Insert (D4)	✓	X	97632
B	50.0	2.9"	1/4" Hex Insert (D6.3)	✓	X	107952
B	73.0	3.0"	1/4" Hex Insert (D6.3)	✓	X	99752 <sup>1)</sup>
B	75.0	2.9"	1/4" Hex Insert (D6.3)	X	✓	111262
B	74.0	1.7"	1/4" Hex Insert (D6.3)	✓	X	101252 <sup>2)</sup>
B	42.0	2.9"	1/4" Hex Insert (D6.3)	X	X	101282
B	75.0	4"	1/4" Hex Insert (D6.3) <sup>3)</sup>	✓	✓	100162
B	100.0	6.0"	1/4" Hex Insert (D6.3)	X	X	110342
B	150.0	6.0"	1/4" Hex Insert (D6.3)	✓	X	110102
B	150.0	6.0"	1/4" Hex Insert (D6.3)	X	X	110352
B	80.0	3.2"	1/4" Hex Insert (D6.3)	✓	X	110362

<sup>1)</sup> Reduced external diameter 9.5mm (3/8"), no retention clip

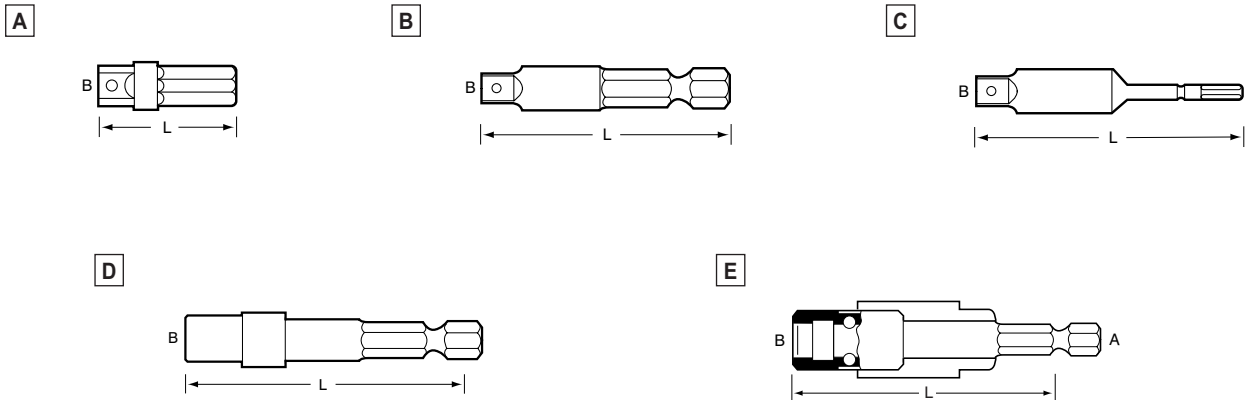
<sup>2)</sup> Copper beryllium

<sup>3)</sup> With Bit retaining collar

## 3mm HEX POWER (A3)

PICTURE REF	L		A	⌀	Q/R	part no.
	mm	in.				
C	57.0	2.25"	4mm Hex Insert (D4)	✓	X	80892
C	57.0	2.25"	4mm Hex Insert (D4)	X	X	80902
C	50.0	2.0"	1/4" Hex Insert (D6.3)	X	X	82322

# Adaptors



## SQUARE DRIVE ADAPTORS 1/4" HEX INSERT (C6.3)

PICTURE REF	B	L		part no.
		mm	in.	
A	1/4" Square Drive	39.0	1.5"	14372

## 1/4" HEX POWER (E6.3)

PICTURE REF	B	L		part no.
		mm	in.	
B	1/4" Square Drive	35.0	1.4"	95352
B	1/4" Square Drive	50.0	2.0"	97132
B	3/8" Square Drive	41.0	1.6"	95362

## 3mm HEX POWER (A3)

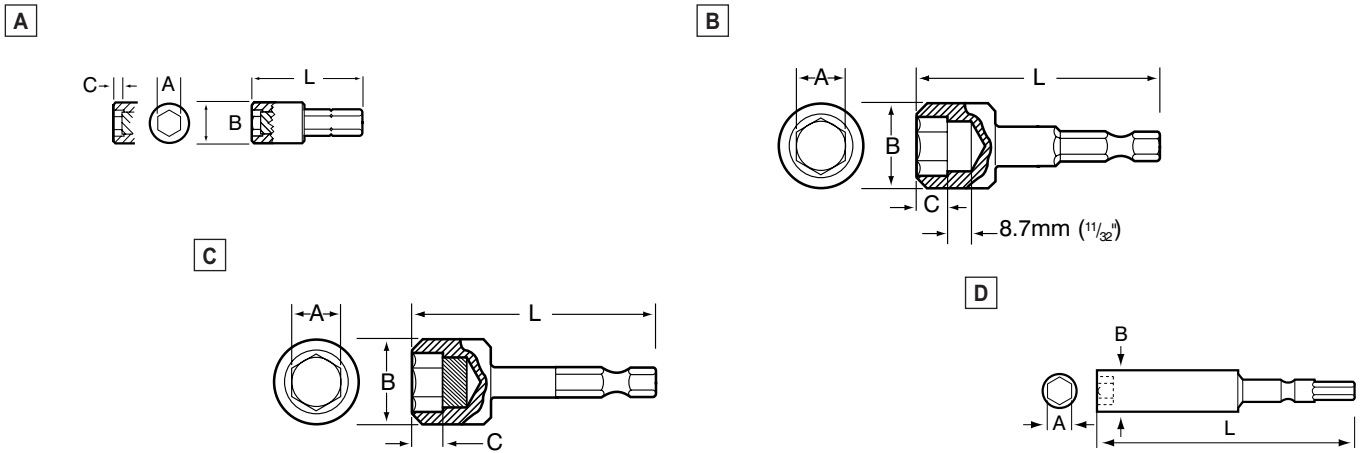
PICTURE REF	B	L		part no.
		mm	in.	
C	1/4" Square Drive	50.0	2.0"	82732

## THREAD ADAPTOR 1/4" HEX POWER (E6.3)

PICTURE REF	B	L		part no.
		mm	in.	
D	3/8" x 24 UNF	45	1.7"	96743
D	3/8" x 24 UNF	35	1.4"	70853

## TELESCOPIC SPINDLE EXTENSION ADAPTORS

PICTURE REF	A	B	L		STROKE		part no.
			mm	in.	mm	in.	
E	1/4" Hex Power E6.3	1/4" Hex Power E6.3	84	4.2"	9.5	0.812"	96713
E	3/8" Square Drive	1/4" Hex Power E6.3	73	3.8"	9.5	0.812"	96723



### 1/4" HEX INSERT (C6.3)

PICTURE REF	ISO		A		B		C		L		part no.
	ISO	UNF/C	mm	in.	mm	in.	mm	in.	mm	in.	
A	M4	-	7.0		11.0	0.43"	2.4	0.09"	28	1.1"	9092011961
A	M5	-	8.0		13.0	0.51"	2.9	0.11"	28	1.1"	9092011991
A	M6	-	10.0		14.0	0.55"	5.0	0.20"	32	1.25"	9092012021

### 1/4" HEX POWER (E6.3)

PICTURE REF	ISO		A		B		C		L		part no.
	ISO	UNF/C	mm	in.	mm	in.	mm	in.	mm	in.	
B	M3	-	5.5		11.0	0.43"	3.9	0.15"	65	2.5"	9092011451
B	M3.5	-	6.0		11.0	0.43"	3.9	0.15"	65	2.5"	9092011511
B	-	4		1/4"	11.0	0.43"	4.4	0.17"	65	2.5"	9092011751
B	M4	-	7.0		12.0	0.47"	4.8	0.19"	65	2.5"	9092011571
B	M5	-	8.0		13.0	0.51"	5.6	0.22"	65	2.5"	9092011631
B	-	10-3/16"		3/8"	14.0	0.56"	6.7	0.26"	65	2.5"	9092011871
B	M6	-	10.0		14.0	0.56"	6.7	0.26"	65	2.5"	9092011691

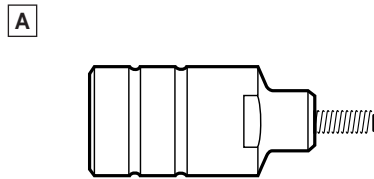
### 1/4" HEX POWER (E6.3)

PICTURE REF	ISO		A		B		C		L		part no.
	ISO	UNF/C	mm	in.	mm	in.	mm	in.	mm	in.	
C	M3	-	5.5		11.0	0.43"	2.3	0.09"	65	2.5"	9092011481
C	M3.5	-	6.0		11.0	0.43"	2.4	0.09"	65	2.5"	9092011541
C	-	4		1/4"	11.0	0.43"	2.4	0.09"	65	2.5"	9092011781
C	M4	-	7.0		12.0	0.47"	2.8	0.11"	65	2.5"	9092011601
C	M5	-	8.0		13.0	0.51"	2.9	0.11"	65	2.5"	9092011661
C	M6	-	10.0		14.0	0.56"	5.0	0.2"	65	2.5"	9092011721
C	-	12-1/4"	11.1	7/16"	16.0	0.63"	5.0	0.2"	65	2.5"	9092011931

### 3mm HEX POWER (A3)

PICTURE REF	ISO		A		B		L		part no.	part no.
	ISO	UNF/C	mm	in.	mm	in.	mm	in.		
D	M2.5	-	5.0		10	Ø0.4"	43	1.72"	80962	81002
D	M3	-	5.5		10	Ø0.4"	43	1.72"	80972	81022

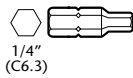
# Bottle Cap Drivers/Nose Attachment Kits



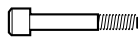
**B**



**C**



**D**



**E**



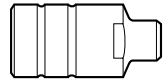
**F**



**G**



**H**



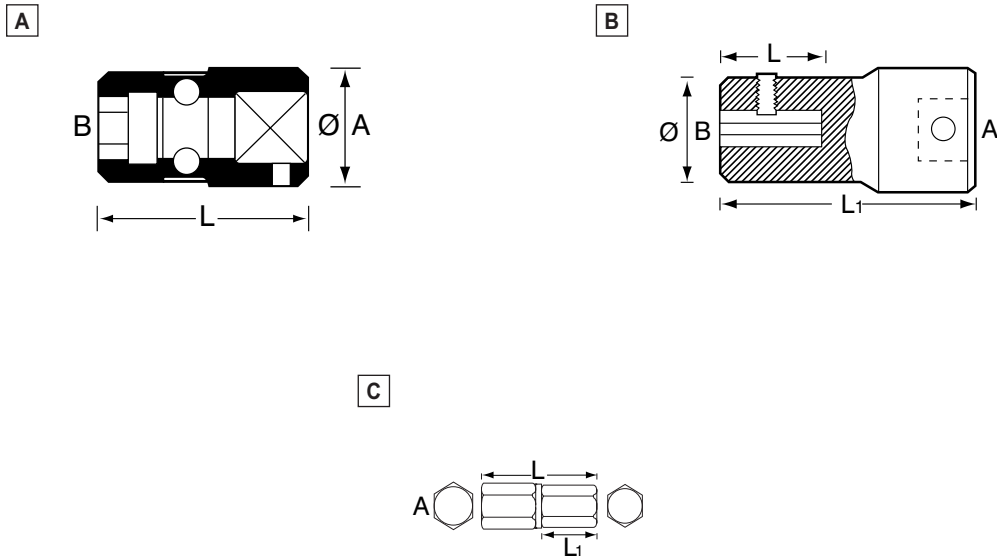
## NOSE ATTACHMENT KITS FOR THE ASSEMBLY OF THREADED CAPTIVE FASTENERS, RIVET NUTS, ETC USE WITH TOOLS 2D189/2F189

PICTURE REF	THREAD SIZE	ASSEMBLY KIT	PICTURE REF	THREAD SIZE	ASSEMBLY KIT
		part no.			part no.
A	M3 x 0.5	76552	A	6 x 32 UNC	76602
A	M4 x 0.7	76562	A	8 x 32 UNC	76622
A	M5 x 0.8	76572	A	10 x 24 UNC	76632
A	M6 x 1.0	76582	A	10 x 32 UNF	76642
A	M8 x 1.25	76592	A	1/4" -20 UNC	76652
			A	1/4" -28 UNF	76662

PICTURE REF	THREAD SIZE	B	C A/F SIZE		D	E LENGTH		F	G	H		
		part no.	mm	in.	part no.	mm	in.	part no.	part no.	part no.		
	M3 x 0.5	16313	2.5	0.10"	110792	35	1.4"	279683	273423	273613	273603	273513
	M4 x 0.7		3	0.12"	110802	35	1.4"	273643	273443		273603	273533
	M5 x 0.8		4	0.16"	110822	35	1.4"	273653	273473		273603	273563
	M6 x 1.0		5	0.20"	110832	35	1.4"	237893	273483		273603	273573
	M8 x 1.25		6	0.24"	110842	45	1.8"	300393	300383			273593

When fitting kit to 2D8, 2F8 models, first remove retaining balls from 1/4" hex screwdriver bit holder.

# Square Drive Adaptors



## SQUARE DRIVE TO SCREWDRIVER BIT ADAPTORS

### QUICK RELEASE AND CLIP/BALL RETENTION

PICTURE REF	A	B	L		Ø MAX		Q/R	part no.
			mm	in.	mm	in.		
A	3/8"	1/4" Hex Insert (D6.3)	32	1.25"	16	0.63"		21792
A	3/8"	1/4" Hex Power (F6.3)	46	1.8"	22	0.87"	Q/R	108052
A	3/8"	5/16" Hex Power	30	1.2"	19	0.75"		70942
A	3/8"	5/16" Hex Power	68	2.68"	21	0.83"	Q/R	21762
A	1/2"	1/4" Hex Insert (D6.3)	45	1.75"	22	0.87"	-	6158123060

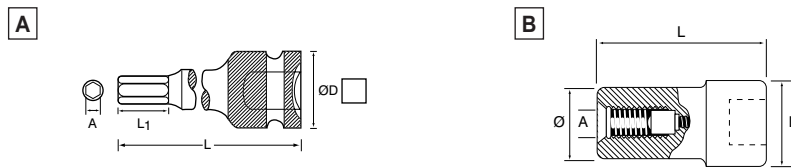
### POSITIVE RETENTION

PICTURE REF	A	B	L		Ø		L <sub>1</sub>		part no.
			mm	in.	mm	in.	mm	in.	
B	3/8"	1/4" Hex	38	1.5"	14	0.55"	14	0.55"	6158122060
B	3/8"	7/16" Hex	38	1.5"	14	0.55"	14	0.55"	6158041570
B	1/2"	7/16" Hex	38	1.5"	14	0.55"	14	0.55"	6158041600

### HEXAGONAL BITS 7/16"

PICTURE REF	SIZE ON FLATS A		L		HEX LENGTH L <sub>1</sub>		part no.
	mm	in.	mm	mm	mm	in.	
C	8		28	1.1"	12	0.47"	6158041080
C	10		28	1.1"	12	0.47"	6158041090
C	12		28	1.1"	12	0.47"	6158041100
C	14		28	1.1"	12	0.47"	6158041110
C		1/4"	28	1.1"	12	0.47"	6158040220
C		3/8"	28	1.1"	12	0.47"	6158040240
C		7/16"	28	1.1"	12	0.47"	6158040250
C		1/2"	28	1.1"	12	0.47"	6158040260

# Sockets 1/2" Drive with Male Hex/Stud Runners



## HEXAGONAL DRIVES WITH PIN AND O RING RETENTION

PICTURE REF	A	□	L		L <sub>1</sub>		ØD		part no.
			mm	in.	mm	in.	mm	in.	
A	4	3/8"	50	2"	16	0.638"	19	3/4"	9092013781
A	5	3/8"	50	2"	16	0.638"	19	3/4"	9092013811
A	6	3/8"	50	2"	16	0.638"	19	3/4"	9092013841
A	8	3/8"	50	2"	16	0.638"	19	3/4"	9092013871
A	10	3/8"	50	2"	16	0.638"	19	3/4"	9092013901
A	8	1/2"	75	3"	16	0.638"	25	1"	9092013961
A	10	1/2"	75	3"	16	0.638"	25	1"	9092013991
A	12	1/2"	75	3"	16	0.638"	25	1"	9092014021
A	14	1/2"	75	3"	20	0.79"	25	1"	9092014051

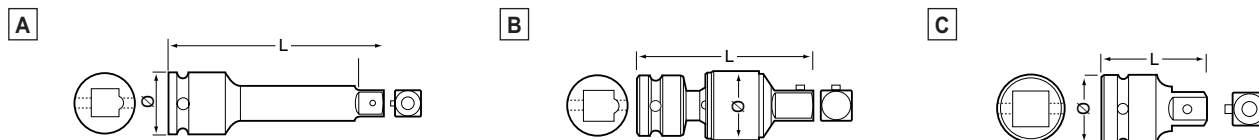
## SOCKET 1/2" DRIVE WITH MALE HEX

PICTURE REF	HEX	L		L <sub>1</sub>		part no.
		mm	in.	mm	in.	
A	4	44	1.73"	6	0.24"	6158040400
A	5	44	1.73"	8	0.31"	6158040410
A	6	44	1.73"	9	0.35"	6158040420
A	8	44	1.73"	12	0.47"	6158040430
A	10	47	1.73"	16	0.63"	6158040440
A	14	50	1.73"	21	0.83"	6158040450
A	17	50	1.73"	26	1.02"	6158040460
A	19	50	1.73"	26	1.02"	6158040470
A	1/4"	44	1.73"	12	0.47"	6158040480
A	3/8"	47	1.73"	16	0.63"	6158040500
A	7/16"	50	1.73"	18	0.71"	6158040510
A	1/2"	50	1.73"	19	0.75"	6158040520
A	9/16"	50	1.73"	21	0.83"	6158040530
A	5/8"	50	1.73"	24	0.94"	6158040540

## STUD RUNNER

PICTURE REF	THREAD A	SQUARE DRIVE	Ø		D		L		part no.
			mm	in.	mm	in.	mm	in.	
B	M5 x 80	3/8"	15	0.59"	19	0.75"	55	2.17"	6158041530
B	M6 x 100	3/8"	15	0.59"	19	0.75"	55	2.17"	6158041610
B	M8 x 125	3/8"	17	0.67"	19	0.75"	55	2.17"	6158041620
B	M10 x 150	3/8"	19	0.75"	24	0.94"	55	2.17"	6158041540
B	M6 x 100	1/2"	22	0.87"	24	0.94"	65	2.56"	6158041550
B	M8 x 125	1/2"	24	0.94"	24	0.94"	65	2.56"	6158041630
B	M10 x 150	1/2"	24	0.94"	24	0.94"	65	2.56"	6158041640
B	M12 x 175	1/2"	24	0.94"	24	0.94"	65	2.56"	6158041650
B	M12 x 125	1/2"	24	0.94"	24	0.94"	65	2.56"	903-108-0
B	M14 x 150	1/2"	24	0.94"	24	0.94"	65	2.56"	903-118-0
B	M14 x 200	1/2"	24	0.94"	24	0.94"	65	2.56"	6158041680
B	M16 x 200	1/2"	24	0.94"	24	0.94"	65	2.56"	6158041580

# Extensions – Universal Joints – Adaptors



## EXTENSIONS

PICTURE REF	FEMALE SQUARE	SQUARE DRIVE	L		Ø		part no.
			mm	in.	mm	in.	
A	1/4"	1/4"	51	2.01"	13	0.51"	6158071050
A	1/4"	1/4"	75	2.95"	13	0.51"	6158071070
A	1/4"	1/4"	100	3.94"	13	0.51"	6158071100
A	1/4"	1/4"	150	5.91"	13	0.51"	6158071150
A	3/8"	3/8"	76	2.99"	19	0.75"	6158072070
A	3/8"	3/8"	152	5.98"	19	0.75"	6158072150
A	1/2"	1/2"	51	2.01"	30	1.18"	6158073050
A	1/2"	1/2"	127	5.0"	30	1.18"	6158073130
A	1/2"	1/2"	254	10.0"	30	1.18"	6158073250
A	3/4"	3/4"	102	4.02"	44	1.73"	6158075100
A	3/4"	3/4"	178	7.01"	44	1.73"	6158075170
A	1"	1"	178	7.01"	54	2.13"	6158076180
A	1"	1"	330	12.99"	54	2.13"	6158076330
A	1 1/2"	1 1/2"	330	12.99"	86	3.39"	6158078330
A	#5	#5	203	7.99"	54	2.13"	6158040340
A	#5	#5	381	15.0"	54	2.13"	6158040350

## UNIVERSAL JOINTS

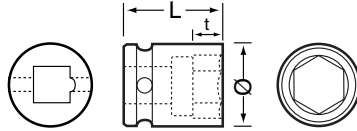
PICTURE REF	MALE SQUARE	SQUARE DRIVE	L		Ø		part no.
			mm	in.	mm	in.	
B	1/4"	1/4"	42	1.65"	17	0.67"	6158081010
B	3/8"	3/8"	60	2.36"	20	0.79"	6158082010
B	1/2"	1/2"	76	2.99"	32	1.26"	6158083010
B	3/4"	3/4"	89	3.50"	44	1.73"	6158085010
B	1"	1"	112	4.41"	54	2.13"	6158086010
B	1 1/2"	1 1/2"	162	6.38"	86	3.39"	6158088010
B	#4	#4	132	5.20"	86	3.39"	6158040320
B	#5	#5	143	5.63"	86	3.39"	6158040330

## ADAPTORS

PICTURE REF	FEMALE SQUARE	SQUARE DRIVE	L		Ø		part no.
			mm	in.	mm	in.	
C	1/4"	3/8"	32	1.26"	12.5	0.49"	6158091200
C	3/8"	1/4"	31	1.22"	22	0.87"	6158092100
C	3/8"	1/2"	35	1.38"	22	0.87"	6158092300
C	1/2"	3/8"	35	1.38"	25	0.98"	6158093200
C	1/2"	3/4"	43	1.69"	30	1.18"	6158093500
C	3/4"	1/2"	52	2.05"	44	1.73"	6158095300
C	3/4"	1"	60	2.36"	44	1.73"	6158095600
C	1"	3/4"	67	2.64"	54	2.13"	6158096500
C	1"	1 1/2"	85	3.35"	54	2.13"	6158096800
C	#4	3/4"	90	3.54"	60	2.36"	6158040110
C	#4	1"	90	3.54"	60	2.36"	6158040120
C	#5	1"	90	3.54"	60	2.36"	6158040130
C	#5	1 1/2"	100	3.94"	60	2.36"	6158040140

# Sockets

A



## STANDARD 1/4" SQUARE DRIVE IMPACT SOCKETS

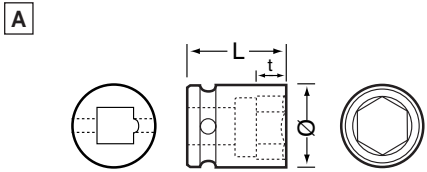
PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	4	25	1"	7.5	0.30"	4	0.16"	6158051040
A	4.5	25	1"	8	0.31"	4	0.16"	6158051450
A	5	25	1"	8.5	0.33"	4	0.16"	6158051050
A	5.5	25	1"	9	0.35"	4	0.16"	6158051550
A	6	25	1"	9.5	0.37"	5	0.20"	6158051060
A	7	25	1"	11	0.43"	5	0.20"	6158051070
A	8	25	1"	12	0.47"	6	0.24"	6158051080
A	9	25	1"	13	0.51"	7	0.28"	6158051090
A	10	25	1"	14.5	0.57"	7	0.28"	6158051100
A	11	25	1"	16	0.63"	8	0.31"	6158051110
A	12	25	1"	17	0.67"	8	0.31"	6158051120
A	13	25	1"	18	0.71"	9	0.35"	6158051130
A	14	25	1"	19	0.75"	9	0.35"	6158051140

## MAGNETIC 1/4" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	7	25	1"	19	0.75"	3	0.12"	6158040050
A	8	25	1"	19	0.75"	4	0.16"	6158040060
A	10	25	1"	19	0.75"	5	0.20"	6158040070

## STANDARD 3/8" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	6	34	1.34"	10	0.39"	5	0.20"	6158052060
A	7	34	1.34"	11	0.43"	6.5	0.26"	6158052070
A	8	34	1.34"	12	0.47"	7.5	0.30"	6158052080
A	9	34	1.34"	13.5	0.53"	8	0.31"	6158052090
A	10	34	1.34"	15	0.59"	8	0.31"	6158052100
A	11	34	1.34"	16.5	0.65"	9	0.35"	6158052110
A	12	34	1.34"	18	0.71"	9	0.35"	6158052120
A	13	34	1.34"	19.5	0.77"	10	0.39"	6158052130
A	14	34	1.34"	20.5	0.81"	10	0.39"	6158052140
A	15	34	1.34"	22	0.87"	10	0.39"	6158052150
A	16	34	1.34"	23	0.91"	10	0.39"	6158052160
A	17	34	1.34"	24.5	0.96"	10	0.39"	6158052170
A	18	34	1.34"	25.5	1.00"	10	0.39"	6158052180
A	19	34	1.34"	27	1.06"	11	0.43"	6158052190
A	3/8"	30	1.18"	14.5	0.57"	4	0.16"	6158042660
A	7/16"	30	1.18"	17	0.67"	6	0.24"	6158042670
A	1/2"	30	1.18"	19	0.75"	6	0.24"	6158042670
A	9/16"	30	1.18"	20	0.79"	7	0.28"	6158042690
A	5/8"	30	1.18"	24	0.94"	8	0.31"	6158042700
A	11/16"	30	1.18"	24	0.94"	9	0.35"	6158042710



### EXTENDED 3/8" SQUARE DRIVE IMPACT SOCKETS

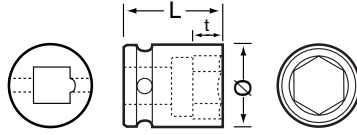
PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	8	57	2.24"	12.5	0.49"	8	0.31"	6158062080
A	10	57	2.24"	15.5	0.61"	10	0.39"	6158062100
A	11	57	2.24"	17	0.67"	11	0.43"	6158062110
A	12	57	2.24"	18	0.71"	12	0.47"	6158062120
A	13	57	2.24"	19.5	0.77"	13	0.51"	6158062130
A	15	57	2.24"	22	0.87"	15	0.59"	6158062150
A	16	57	2.24"	23	0.91"	16	0.63"	6158062160
A	17	57	2.24"	24.5	0.96"	17	0.67"	6158062170
A	18	57	2.24"	25.5	1.00"	18	0.71"	6158062180
A	19	57	2.24"	27	1.06"	19	0.75"	6158062190
A	3/8"	65	2.56"	14.5	0.57"	4	0.16"	6158042720
A	7/16"	65	2.56"	17	0.67"	6	0.24"	6158042730
A	1/2"	65	2.56"	19	0.75"	6	0.24"	6158042740
A	9/16"	65	2.56"	20	0.79"	7	0.28"	6158042750
A	5/8"	65	2.56"	24	0.94"	8	0.31"	6158042760
A	11/16"	65	2.56"	24	0.94"	9	0.35"	6158042770

### STANDARD 1/2" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	10	38	1.50"	16	0.63"	8	0.31"	6158053100
A	11	38	1.50"	17.5	0.69"	9	0.35"	6158053110
A	12	38	1.50"	19	0.75"	9	0.35"	6158053120
A	13	38	1.50"	20.5	0.81"	10	0.39"	6158053130
A	14	38	1.50"	22	0.87"	10	0.39"	6158053140
A	15	38	1.50"	23.5	0.93"	10	0.39"	6158053150
A	16	38	1.50"	24.5	0.96"	10	0.39"	6158053160
A	17	38	1.50"	26	1.02"	10	0.39"	6158053170
A	18	38	1.50"	27.5	1.08"	10	0.39"	6158053180
A	19	38	1.50"	29	1.14"	11	0.43"	6158053190
A	20	38	1.50"	30	1.18"	12	0.47"	6158053200
A	21	38	1.50"	31	1.22"	13	0.51"	6158053210
A	22	38	1.50"	32.5	1.28"	13	0.51"	6158053220
A	23	38	1.50"	34	1.34"	15	0.59"	6158053230
A	24	45	1.77"	35	1.38"	15	0.59"	6158053240
A	26	45	1.77"	38	1.50"	15	0.59"	6158053260
A	27	50	1.97"	39	1.54"	16	0.63"	6158053270
A	28	50	1.97"	40	1.57"	17	0.67"	6158053280
A	29	50	1.97"	41	1.61"	17	0.67"	6158053290
A	30	50	1.97"	42.5	1.67"	18	0.71"	6158053300

# Sockets

A

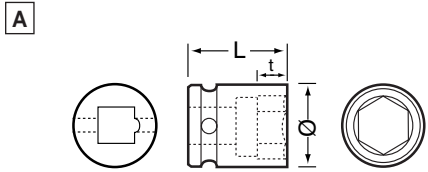


## STANDARD 1/2" SQUARE DRIVE IMPACT SOCKETS continued

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	3/8"	38	1.50"	16	0.63"	4	0.16"	6158042780
A	7/16"	38	1.50"	18	0.71"	6	0.24"	6158042790
A	1/2"	38	1.50"	20	0.79"	6	0.24"	6158042800
A	9/16"	38	1.50"	22	0.87"	7	0.28"	6158042810
A	5/8"	38	1.50"	25	0.98"	8	0.31"	6158042820
A	11/16"	38	1.50"	26	1.02"	9	0.35"	6158042830
A	3/4"	38	1.50"	28.7	1.13"	9.5	0.37"	6158053190
A	13/16"	38	1.50"	30	1.18"	11	0.43"	6158042840
A	7/8"	38	1.50"	32	1.26"	13	0.51"	6158042850
A	15/16"	38	1.50"	34	1.34"	13	0.51"	6158042860
A	1"	38	1.50"	36	1.42"	13	0.51"	6158042870
A	1 1/16"	38	1.50"	38.7	1.52"	13	0.51"	6158053270
A	1 1/8"	40	1.57"	38	1.50"	16.5	0.65"	6158042880
A	1 3/16"	40	1.57"	42	1.65"	16.5	0.65"	6158053300
A	1 1/4"	40	1.57"	44	1.73"	17	0.67"	6158042890

## EXTENDED 1/2" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	10	78	3.07"	17	0.67"	10	0.39"	6158063100
A	11	78	3.07"	18.5	0.73"	11	0.43"	6158063110
A	12	78	3.07"	20	0.79"	12	0.47"	6158063120
A	13	78	3.07"	21.5	0.85"	13	0.51"	6158063130
A	14	78	3.07"	23	0.91"	14	0.55"	6158063140
A	15	78	3.07"	23.5	0.93"	15	0.59"	6158063150
A	16	78	3.07"	24.5	0.96"	16	0.63"	6158063160
A	17	78	3.07"	26	1.02"	17	0.67"	6158063170
A	18	78	3.07"	27.5	1.08"	18	0.71"	6158063180
A	19	78	3.07"	29	1.14"	19	0.75"	6158063190
A	20	78	3.07"	30	1.18"	20	0.79"	6158063200
A	21	78	3.07"	31	1.22"	23	0.91"	6158063210
A	22	78	3.07"	32.5	1.28"	23	0.91"	6158063220
A	23	78	3.07"	34	1.34"	25	0.98"	6158063230
A	24	78	3.07"	35	1.38"	25	0.98"	6158063240
A	27	78	3.07"	39	1.54"	26	1.02"	6158063270
A	28	78	3.07"	40	1.57"	27	1.06"	6158063280
A	30	78	3.07"	43	1.69"	30	1.18"	6158063300
A	1/2"	78	3.07"	20	0.79"	6	0.24"	6158042900
A	9/16"	78	3.07"	22	0.87"	7	0.28"	6158042910
A	5/8"	78	3.07"	25	0.98"	8	0.31"	6158042920
A	11/16"	78	3.07"	26	1.02"	9	0.35"	6158042930
A	3/4"	78	3.07"	28.7	1.13"	9.5	0.37"	6158063190
A	13/16"	78	3.07"	30	1.18"	11	0.43"	6158042940
A	7/8"	78	3.07"	32	1.26"	13	0.51"	6158042950
A	15/16"	78	3.07"	34	1.34"	13	0.51"	6158042960
A	1"	78	3.07"	36	1.42"	13	0.51"	6158042970
A	1 1/16"	78	3.07"	38.7	1.52"	13	0.51"	6158063270
A	1 1/8"	78	3.07"	40	1.57"	16.5	0.65"	6158042980



### STANDARD 3/4" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	18	50	1.97"	31	1.22"	12	0.47"	6158055180
A	19	50	1.97"	32	1.26"	13	0.51"	6158055190
A	21	50	1.97"	35	1.38"	13	0.51"	6158055210
A	22	50	1.97"	35	1.38"	13	0.51"	6158055220
A	24	50	1.97"	39	1.54"	15	0.59"	6158055240
A	26	54	2.13"	41	1.61"	16	0.63"	6158055260
A	27	54	2.13"	42	1.65"	16	0.63"	6158055270
A	29	54	2.13"	44	1.73"	17	0.67"	6158055290
A	30	54	2.13"	46	1.81"	18	0.71"	6158055300
A	32	56	2.20"	49	1.93"	18	0.71"	6158055320
A	33	56	2.20"	51	2.01"	20	0.79"	6158055330
A	34	56	2.20"	52	2.05"	20	0.79"	6158055340
A	36	56	2.20"	54	2.13"	20	0.79"	6158055360
A	38	58	2.28"	57	2.24"	22	0.87"	6158055380
A	41	58	2.28"	61	2.40"	22	0.87"	6158055410
A	3/4"	45	1.77"	36	1.42"	9.5	0.37"	6158055190
A	13/16"	46	1.81"	35	1.38"	11	0.43"	6158042990
A	7/8"	46	1.81"	40	1.57"	13	0.51"	6158043000
A	15/16"	46	1.81"	41	1.61"	13	0.51"	6158043010
A	1"	46	1.81"	43	1.69"	13	0.51"	6158043020
A	1 1/16"	48	1.89"	46	1.81"	13	0.51"	6158055270
A	1 1/8"	52	2.05"	48	1.89"	16.5	0.65"	6158043030
A	1 1/4"	52	2.05"	51	2.01"	16.5	0.65"	6158043040
A	1 5/16"	55	2.05"	54	2.13"	17	0.67"	6158043050
A	1 3/8"	56	2.20"	54	2.13"	19	0.75"	6158043060
A	1 7/16"	56	2.20"	54	2.13"	19	0.75"	6158043070
A	1 1/2"	59	2.32"	60	2.36"	22	0.87"	6158055380

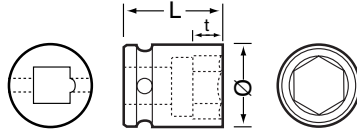
### EXTENDED 3/4" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	18	100	3.94"	32	1.26"	18	0.71"	6158065180
A	19	100	3.94"	33	1.30"	19	0.75"	6158065190
A	21	100	3.94"	36	1.42"	21	0.83"	6158065210
A	22	100	3.94"	36	1.42"	22	0.87"	6158065220
A	24	100	3.94"	40	1.57"	24	0.94"	6158065240
A	26	100	3.94"	42	1.65"	26	1.02"	6158065260
A	27	100	3.94"	43	1.69"	27	1.06"	6158065270
A	30	100	3.94"	46	1.81"	30	1.18"	6158065300
A	32	100	3.94"	49	1.93"	32	1.26"	6158065320
A	33	100	3.94"	51	2.01"	32	1.26"	6158065330
A	34	100	3.94"	52	2.05"	32	1.26"	6158065340
A	36	100	3.94"	54	2.13"	32	1.26"	6158065360
A	38	100	3.94"	57	2.24"	35	1.38"	6158065380
A	41	100	3.94"	61	2.40"	35	1.38"	6158065410

EXTENDED 3/4" SQUARE DRIVE IMPACT SOCKETS – Inch sizes on page 26

# Sockets

A

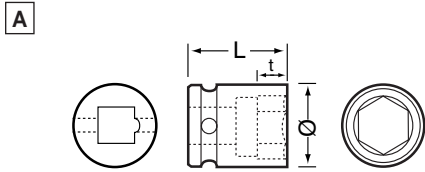


## EXTENDED 3/4" SQUARE DRIVE IMPACT SOCKETS continued

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	3/4"	90	3.54"	32	1.26"	9.5	0.37"	6158065190
A	13/16"	90	3.54"	35	1.38"	11	0.43"	6158043080
A	7/8"	90	3.54"	38	1.50"	13	0.51"	6158043090
A	15/16"	90	3.54"	40	1.57"	13	0.51"	6158043100
A	1"	90	3.54"	41	1.61"	13	0.51"	6158043110
A	1 1/16"	90	3.54"	41	1.61"	13	0.51"	6158065270
A	1 1/8"	90	3.54"	44	1.73"	16.5	0.65"	6158043120
A	1 1/4"	90	3.54"	49	1.93"	17	0.67"	6158043130
A	1 5/16"	90	3.54"	49	1.93"	19	0.75"	6158043140
A	1 1/2"	90	3.54"	54	2.13"	22	0.87"	6158065380

## STANDARD 1" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	24	59	2.32"	38	1.50"	15	0.59"	6158056240
A	27	59	2.32"	44	1.73"	16	0.63"	6158056270
A	29	59	2.32"	48	1.89"	17	0.67"	6158056290
A	30	61	2.40"	50	1.97"	18	0.71"	6158056300
A	32	61	2.40"	52	2.05"	19	0.75"	6158056320
A	33	61	2.40"	54	2.13"	19	0.75"	6158056330
A	34	61	2.40"	54	2.13"	19	0.75"	6158056340
A	36	65	2.56"	57	2.24"	23	0.91"	6158056360
A	38	65	2.56"	59	2.32"	23	0.91"	6158056380
A	41	70	2.76"	63	2.48"	25	0.98"	6158056410
A	42	70	2.76"	64	2.52"	25	0.98"	6158056420
A	46	75	2.95"	69	2.72"	30	1.18"	6158056460
A	50	80	3.15"	75	2.95"	32	1.26"	6158056500
A	55	83	3.27"	81	3.19"	33	1.30"	6158056550
A	60	83	3.27"	87	3.43"	33	1.30"	6158056600
A	65	86	3.39"	94	3.70"	38	1.50"	6158056650
A	3/4"	55	2.17"	36	1.42"	9.5	0.37"	6158043150
A	13/16"	55	2.17"	38	1.50"	11	0.43"	6158043160
A	7/8"	55	2.17"	40	1.57"	13	0.51"	6158043170
A	15/16"	55	2.17"	41	1.61"	13	0.51"	6158043180
A	1"	55	2.17"	43	1.69"	13	0.51"	6158043190
A	1 1/16"	55	2.17"	46	1.81"	13	0.51"	6158043200
A	1 1/8"	57	2.17"	48	1.89"	16.5	0.65"	6158043210
A	1 3/16"	57	2.17"	50	1.97"	16.5	0.65"	6158043220
A	1 1/4"	57	2.17"	51	2.01"	17	0.67"	6158043230
A	1 5/16"	60	2.36"	54	2.13"	19	0.75"	6158043240
A	1 3/8"	60	2.36"	54	2.13"	19	0.75"	6158043250
A	1 7/16"	60	2.36"	54	2.13"	19	0.75"	6158043260
A	1 1/2"	64	2.52"	60	2.36"	22	0.87"	6158043270
A	1 5/8"	64	2.52"	63	2.48"	22	0.87"	6158043280
A	1 11/16"	69	2.72"	67	2.64"	25	0.98"	6158043290
A	1 3/4"	69	2.72"	70	2.76"	25.5	1.00"	6158043300

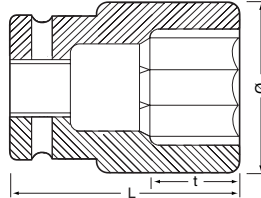


### EXTENDED 1" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS	L		Ø		DEPTH t		part no.
		mm	in.	mm	in.	mm	in.	
A	24	100	3.94"	39	1.54"	24	0.94"	6158066240
A	27	100	3.94"	45	1.77"	27	1.06"	6158066270
A	30	100	3.94"	51	2.01"	30	1.18"	6158066300
A	32	100	3.94"	53	2.09"	30	1.18"	6158066320
A	33	100	3.94"	54	2.13"	30	1.18"	6158066330
A	34	100	3.94"	54	2.13"	30	1.18"	6158066340
A	36	100	3.94"	57	2.24"	33	1.30"	6158066360
A	38	100	3.94"	59	2.32"	33	1.30"	6158066380
A	41	100	3.94"	63	2.48"	35	1.38"	6158066410
A	42	100	3.94"	64	2.52"	35	1.38"	6158066420
A	46	115	4.53"	69	2.72"	35	1.38"	6158066460
A	50	125	4.92"	75	2.95"	38	1.50"	6158066500
A	55	125	4.92"	81	3.19"	40	1.57"	6158066550
A	60	125	4.92"	87	3.43"	40	1.57"	6158066600
A	65	135	5.31"	94	3.70"	42	1.65"	6158066650
A	1 1/16"	100	3.94"	46	1.81"	13	0.51"	6158043310
A	1 1/8"	100	3.94"	48	1.89"	16.5	0.65"	6158043320
A	1 1/4"	100	3.94"	51	2.01"	17	0.67"	6158043330
A	1 5/16"	100	3.94"	54	2.13"	19	0.75"	6158043340
A	1 1/2"	100	3.94"	60	2.36"	22	0.87"	6158043350
A	1 5/8"	100	3.94"	63	2.48"	22	0.87"	6158043360
A	1 3/4"	100	3.94"	70	2.76"	25.5	1.00"	6158043370
A	2"	100	3.94"	73	2.87"	27	1.06"	6158043380
A	2 9/16"	100	3.94"	92	3.62"	35	1.38"	6158043390
A	2 3/4"	110	3.94"	96	3.78"	38	1.50"	6158043400
A	3 3/8"	116	3.94"	115	4.53"	49	1.93"	6158043410
A	3 3/4"	118	3.94"	135	5.31"	49	1.93"	6158043420

# Sockets

A



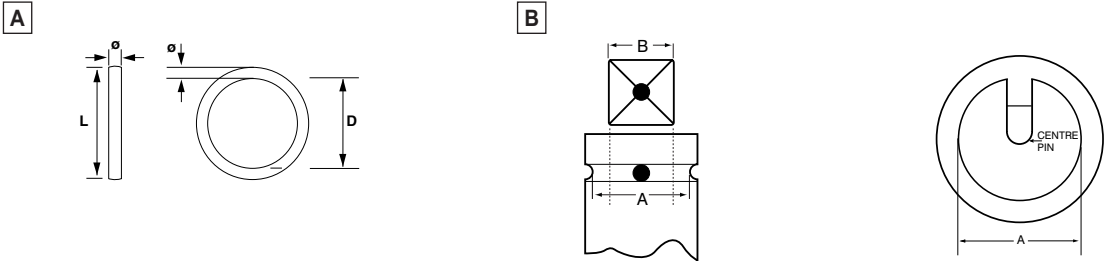
## STANDARD 1 1/2" SQUARE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS		L		Ø		DEPTH t		part no.
	mm		mm	in.	mm	in.	mm	in.	
A	50		87	3.43"	81	3.19"	25	0.98"	6158058500
A	55		90	3.54"	86	3.39"	30	1.18"	6158058550
A	60		95	3.74"	94	3.70"	38	1.50"	6158058600
A	65		100	3.94"	99	3.90"	40	1.57"	6158058760
A	70		105	4.13"	105	4.13"	42	1.65"	6158058700
A	75		110	4.33"	112	4.41"	42	1.65"	6158058750
A	80		110	4.33"	119	4.69"	42	1.65"	6158058800
A	85		116	4.57"	121	4.76"	49	1.93"	6158058850
A	90		120	4.72"	131	5.16"	50	1.97"	6158058900
A	95		130	5.12"	141	5.55"	55	2.17"	6158058950
A	1 3/4"		80	3.15"	75	2.95"	25.5	1.00"	6158043670
A	2"		82	3.23"	80	3.15"	27	1.06"	6158043680
A	2 9/16"		96	3.78"	100	3.94"	35	1.38"	6158058700
A	2 3/4"		101	3.98"	105	4.13"	38	1.50"	6158058750
A	3 3/8"		116	4.57"	127	5.00"	49	1.93"	6158043690
A	3 3/4"		118	4.65"	135	5.31"	49	1.93"	6158058950

## STANDARD 5# SPLINE DRIVE IMPACT SOCKETS

PICTURE REF	SIZE ON FLATS		L		Ø		DEPTH t		part no.
	mm		mm	in.	mm	in.	mm	in.	
A	3/4"		70	2.76"	48	1.89"	9.5	0.37"	6158043430
A	7/8"		70	2.76"	48	1.89"	13	0.51"	6158043440
A	15/16"		70	2.76"	48	1.89"	13	0.51"	6158043450
A	1"		70	2.76"	49	1.93"	13	0.51"	6158043460
A	1 1/16"		70	2.76"	51	2.01"	13	0.51"	6158043470
A	1 1/8"		70	2.76"	51	2.01"	16.5	0.65"	6158043480
A	1 3/16"		70	2.76"	54	2.13"	16.5	0.65"	6158043490
A	1 1/4"		75	2.95"	60	2.36"	17	0.67"	6158043500
A	1 5/16"		77	3.03"	60	2.36"	19	0.75"	6158043510
A	1 3/8"		77	3.03"	60	2.36"	19	0.75"	6158043520
A	1 7/16"		77	3.03"	63	2.48"	19	0.75"	6158043530
A	1 1/2"		80	3.15"	63	2.48"	22	0.87"	6158043540
A	1 5/8"		80	3.15"	67	2.64"	22	0.87"	6158043550
A	1 11/16"		84	3.31"	67	2.64"	25	0.98"	6158043560
A	1 3/4"		84	3.31"	73	2.87"	25.5	1.00"	6158043570

# Socket Retention



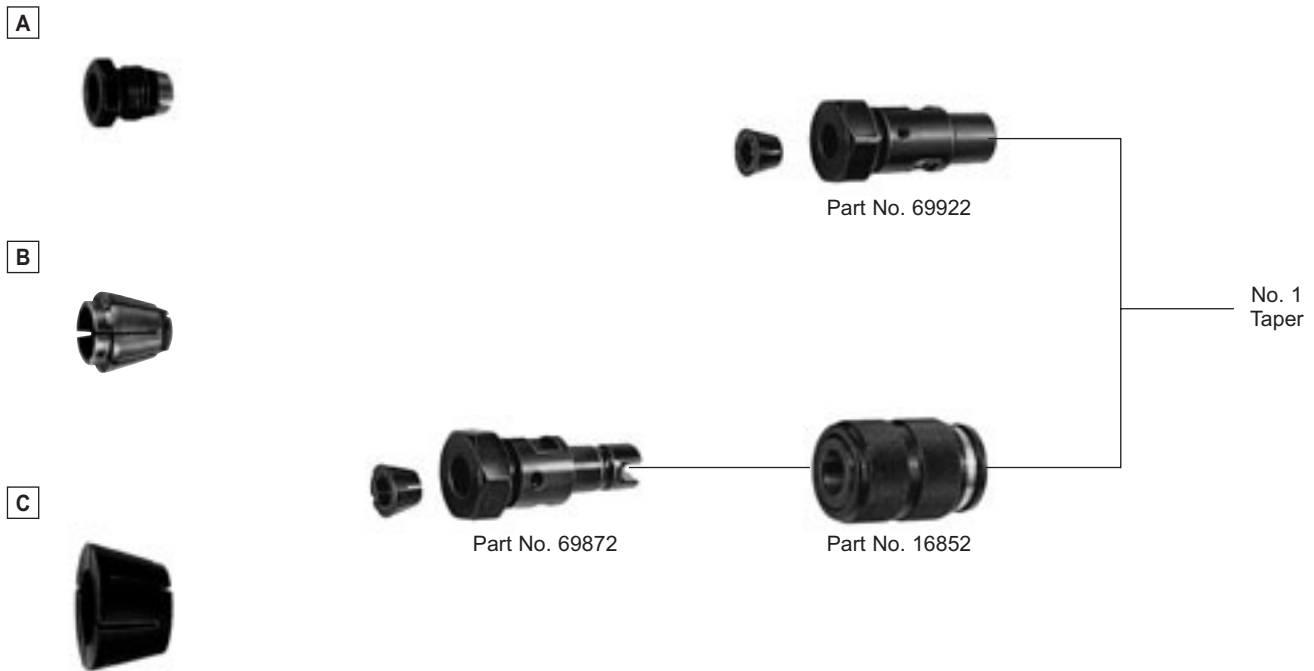
## PIN AND O-RING RETENTION

PICTURE REF	HEX SIZE	□	L		Ø		PIN part no.	D		Ø		O RING part no.
			mm	in.	mm	in.		mm	in.	mm	in.	
A	6-12	3/8"	16	0.64"	3	0.12"	6158043880	13	0.52"	3.5	0.14"	6158044020
A	13-19	3/8"	16	0.64"	3	0.12"	6158043880	16	0.64"	3.5	0.14"	6158044030
A	10-14	1/2"	20	0.8"	3	0.12"	6158043900	19	0.76"	4	0.16"	6158044040
A	15-30	1/2"	25	1"	3	0.12"	6158043910	24	0.96"	4	0.16"	6158044050
A	18-41	3/4"	35	1.4"	4	0.16"	6158043920	36	1.44"	5	0.2"	6158044060
A	24-65	1"	45	1.8"	5	0.2"	6158043930	45	1.8"	7	0.28"	6158044070
A	50-90	1-1/2"	75	3"	6	0.24"	6158043940	75	3"	10	10.4"	6158044080
A	95	1-1/2"	75	3"	6	0.24"	6158043940	90	3.6"	10	10.4"	6158044090

## RETAINING RING IMPACT SOCKET RETAINER

PICTURE REF	A GROOVE DIAMETER SOCKET SIZE	B FOR USE ON SQUARE DRIVE	NUMBER ON RING	part no.
B	1 5/8"	3/4"	10034S	C134690
B	2 1/4"	1	10016S	C134692
B	3 3/8"	1 1/2"	10025S	C134694
B	3 7/8"	1 1/2"	10030S	C134695
B	4 3/8"	1 1/2"	10035S	C134696

# Drilling Accessories



## COLLETS FOR C32, D32, D33, D370, F32

PICTURE REF												
	mm	in.	part no.	mm	in.	part no.	mm	in.	part no.	mm	in.	part no.
A	0.8	0.031"	2152	2.0	0.079"	2272	3.2	0.126"	2392	4.4	0.173"	2512
A	0.9	0.035"	2162	2.1	0.083"	2282	3.3	0.130"	2402	4.5	0.177"	2522
A	1.0	0.039"	2172	2.2	0.087"	2292	3.4	0.134"	2412	4.6	0.181"	2532
A	1.1	0.043"	2182	2.3	0.091"	2302	3.5	0.138"	2422	4.7	0.185"	2542
A	1.2	0.047"	2192	2.4	0.094"	2312	3.6	0.142"	2432	4.8	0.189"	2552
A	1.3	0.051"	2202	2.5	0.098"	2322	3.7	0.146"	2442	4.9	0.193"	2562
A	1.4	0.055"	2212	2.6	0.202"	2332	3.8	0.150"	2452	5.0	0.197"	2572
A	1.5	0.059"	2222	2.7	0.106"	2342	3.9	0.154"	2462		1/16"	91442
A	1.6	0.063"	2232	2.8	0.110"	2352	4.0	0.157"	2472		3/32"	91452
A	1.7	0.067"	2242	2.9	0.114"	2362	4.1	0.161"	2482		1/8"	91462
A	1.8	0.070"	2252	3.0	0.118"	2372	4.2	0.165"	2492		5/32"	91472
A	1.9	0.075"	2262	3.1	0.122"	2382	4.3	0.169"	2502		3/16"	91482

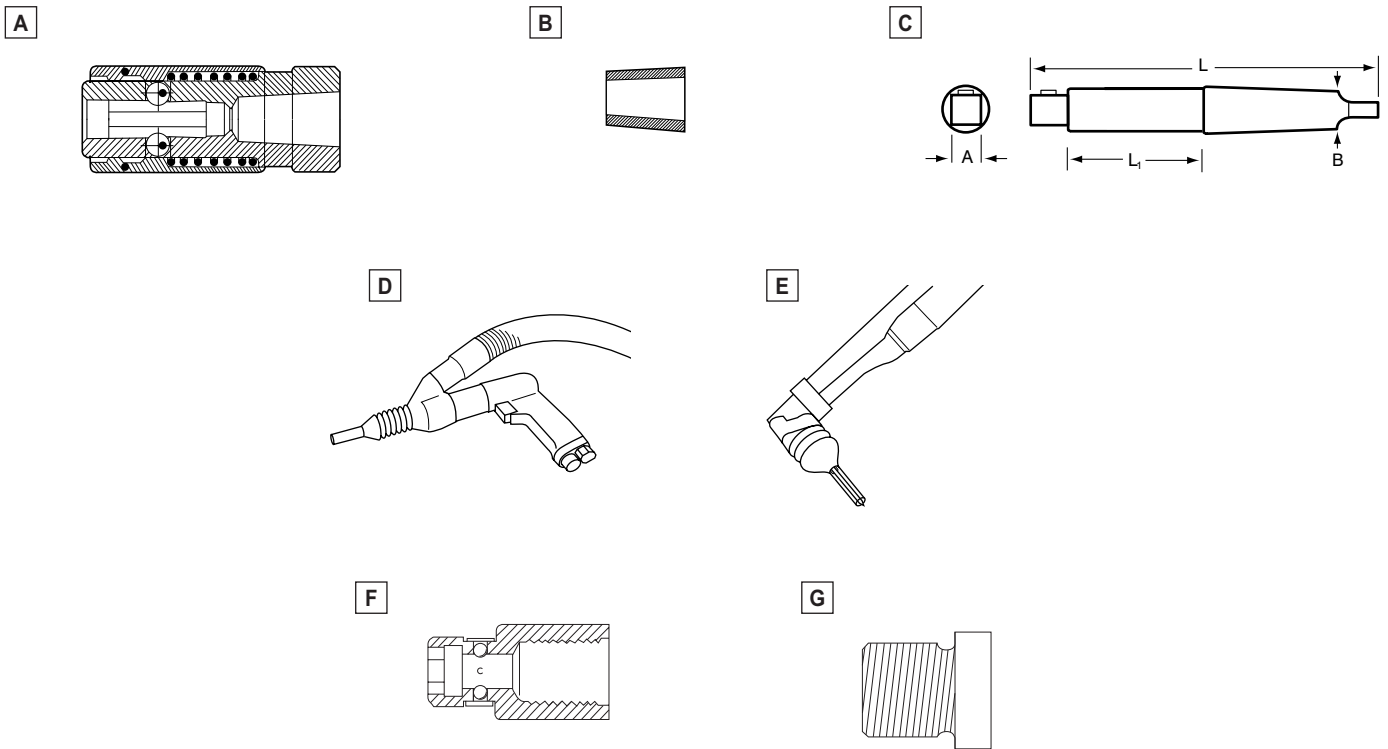
## FOR D314, D315, D374

PICTURE REF												
	mm	in.	part no.	mm	in.	part no.	mm	in.	part no.	mm	in.	part no.
B	1.6	0.063"	18922	3.0	0.118"	18992	4.2	0.165"	19062	5.4	0.213"	19132
B	1.8	0.070"	18932	3.2	0.126"	19002	4.4	0.173"	19072	5.6	0.220"	19142
B	2.0	0.079"	18942	3.4	0.134"	19022	4.6	0.181"	19082	5.8	0.228"	19152
B	2.2	0.087"	18952	3.6	0.142"	19032	4.8	0.189"	19092	6.0	0.236"	19162
B	2.4	0.094"	18962	3.8	0.150"	19042	5.0	0.197"	19102	6.2	0.224"	19172
B	2.6	0.102"	18972	4.0	0.157"	19052	5.2	0.205"	19122	6.4	0.252"	19182
B	2.8	0.110"	18982									

## FOR D3141 & TAP HOLDER 69922/69872

PICTURE REF												
	mm	in.	part no.	mm	in.	part no.	mm	in.	part no.	mm	in.	part no.
C	2.4	0.094"	2592	4.0	0.157"	2672	5.6	0.213"	2752	7.2	0.268"	2832
C	2.6	0.102"	2602	4.2	0.165"	2682	5.8	0.220"	2762	7.4	0.276"	2842
C	2.8	0.110"	2612	4.4	0.173"	2692	6.0	0.228"	2772	7.6	0.283"	2852
C	3.0	0.118"	2622	4.6	0.181"	2702	6.2	0.236"	2782	7.8	0.291"	2862
C	3.2	0.126"	2632	4.8	0.189"	2712	6.4	0.244"	2792	8.0	0.299"	2872
C	3.4	0.134"	2642	5.0	0.197"	2722	6.6	0.252"	2802	9.0	0.307"	69882
C	3.6	0.142"	2652	5.2	0.205"	2732	6.8	0.260"	2812	10.0	0.315"	69892
C	3.8	0.150"	2662	5.4		2742	7.0		2822			

# Drilling Accessories



## CHUCK ADAPTORS SCREWDRIVER BIT ADAPTOR, TAPER ADAPTOR & EXTERNAL HEX ADAPTOR

PICTURE REF	INSIDE THREADS OR TAPER	TO	OUTSIDE THREADS OR TAPER/INSIDE HEX	NOTES	part no.
A	Jacobs No 1		1/4" hex E6.3	Quick release	31102
B	Jacobs No 1		Jacobs No 2		12243
B	Morse No 1		Morse No 2		30032
F	3/8" x 24		1/4" Hex E6.3	Positive retention	6158044190
G	3/8" x 24 UN		1/2" x 20 UN		68143

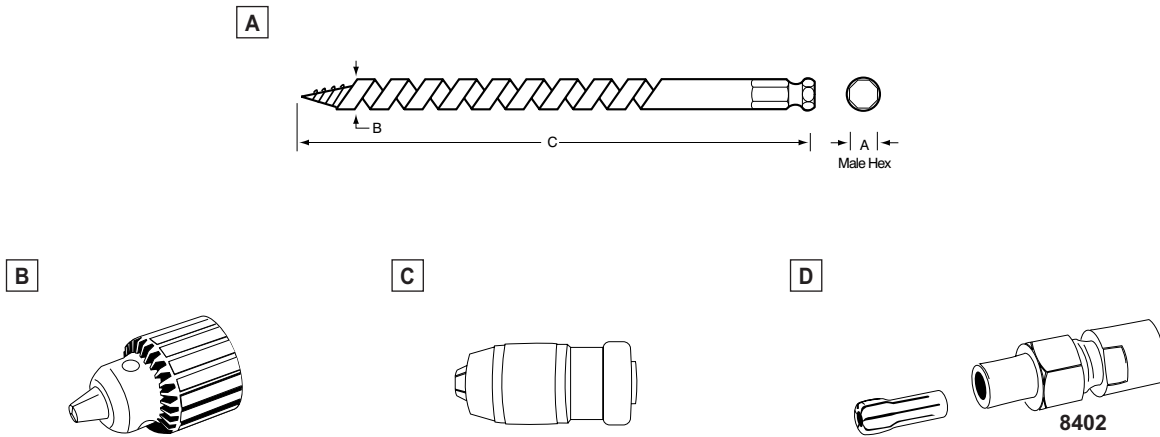
## MORSE TAPER TO SQUARE DRIVE ADAPTOR

PICTURE REF	A	B	L <sub>1</sub> PROJECTION		L LENGTH		part no.
	in.	MORSE TAPER	mm	in.	mm	in.	
C	1"	#4	28.6	1 1/8"	178	7"	C-065583

## DUST EXTRACTOR KIT

PICTURE REF	FOR TOOL TYPE	NOTES	part no.
D	C220, C22	Requires chuck guard 393793	53242
D	D22, D23		53242
E	D32, C32, F32		94972

# Drilling Accessories



## HEX. DRIVE WOOD AUGERS

PICTURE REF	A MALE HEX.		B AUGER DIA.		C OVERALL LENGTH		part no.
	mm	in.	mm	in.	mm	in.	
A	11.1	7/16"	14.3	9/16"	457	22"	C-050879
A	11.1	7/16"	20.6	13/16"	457	22"	C-050883
A	11.1	7/16"	17.4	11/16"	457	22"	C-050884

## CHUCKS AND KEYS

PICTURE REF	TO SUIT OUTPUT SPINDLE	CAPACITY (MAX)		CHUCK & KEY	CHUCK KEY	USED ON
		mm	in.	part no.	part no.	
B	5/16 UNF	4	5/32"	103082	29932	C220
B	3/8 UNF	6.5	1/4"	28942	29182	C22
B	JTI (tapered shaft)	6.5	1/4"	29492	29182	D22
B	JTI (tapered shaft)	10	3/8"	29042	29232	F251
B	1/2 UNF	13	1/2"	29142	29242	H26 (>2000rpm)
B	5/8 UNF	13	1/2"	29122	29242	H26 (<800rpm)
<b>General Purpose Keyless Chuck</b>						
C	3/8 UNF	10	3/8"	94952	-	1274
<b>Precision Keyless Chucks</b>						
C	3/8-24 UNF (34mm dia)	6.5	1/4"	98722	-	D23
C	3/8-24 UNF (36mm dia)	10	3/8"	98772	-	D23
C	1/2-20 UNF (36mm dia)	10	3/8"	98742	-	H26-P-2800 & 2000
C	Jacobs Taper 1 (36mm dia)	10	3/8"	98782	-	F251

\* 410203 not supplied with key

## PRECISION COLLET CHUCK

PICTURE REF	DRIVE	LENGTH		DIAMETER		COLLET CAPACITY	COLLET part no.
		mm	in.	mm	in.	mm	
D	No. 1 Taper	53	2.09"	18.5	0.73"	0.25 - 1	34602
D	No. 1 Taper	53	2.09"	18.5	0.73"	0.75 - 1.5	34622
D	No. 1 Taper	53	2.09"	18.5	0.73"	1.25 - 2	34632
D	No. 1 Taper	53	2.09"	18.5	0.73"	1.75 - 2.5	34642
D	No. 1 Taper	53	2.09"	18.5	0.73"	2.25 - 3	34652
D	No. 1 Taper	53	2.09"	18.5	0.73"	2.75 - 3.5	34662
D	No. 1 Taper	53	2.09"	18.5	0.73"	3.25 - 4	34672
D	No. 1 Taper	53	2.09"	18.5	0.73"	3.75 - 4.5	34682
D	No. 1 Taper	53	2.09"	18.5	0.73"	4.25 - 5	34692
D	No. 1 Taper	53	2.09"	18.5	0.73"	4.75 - 5.5	34702
D	No. 1 Taper	53	2.09"	18.5	0.73"	5.25 - 6	34722
D	No. 1 Taper	53	2.09"	18.5	0.73"	5.75 - 6.5	8482

QUALITY ACCESSORIES • QUALITY ACCESSORIES • QUALITY ACCESSORIES



## Abrasive Accessories

Pads ..... *pages 36-37*

Belts, Brushes ..... *page 38*

Wheels ..... *page 39*

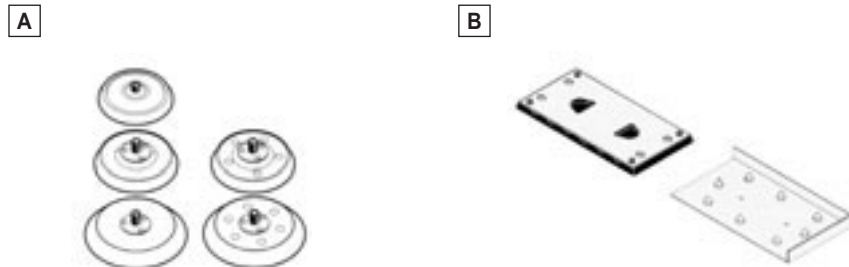
Polishing/Dust Extraction ..... *page 40*

Carbide Burrs ..... *page 41*

Mounted Points ..... *page 42*



# Abrasive Accessories



## SANDING PADS FOR 5534/5674 RANDOM ORBITAL SANDERS

PICTURE REF	TYPE	part no.	TYPE	part no.
A	152mm Vinyl	51422	152mm Vinyl	50992
A	152mm Hook & loop fixing*	51972	(3M – standard)	
A	152mm Vinyl*	52792	152mm Hookit*	101402
A	152mm Hook & loop fixing*	52882	152mm Stikit*	101382
A	152mm Vinyl*	52792	(3M – soft)	
A	152mm Hook & loop fixing*	52882	152mm Hookit*	104542

\* Vacuum pad

© Hookit and Stikit are the Registered Trademarks of 3M Automotive Traders

## SANDING PADS FOR RANDOM ORBITAL SANDERS

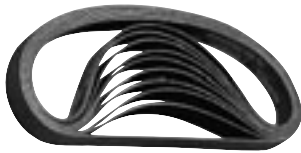
PICTURE REF	Ø		use with	WEIGHT	TYPE	part no.	TYPE		part no.
	mm	in.							
A	110	4 <sup>3</sup> / <sub>8</sub> "	SC2 (P) All versions	85	Velcro	6159901020	Vinyl		6159901010
A	125	5"	SC3 (P) - CP3575SP - CP3565SH	105	Velcro	6159901230	Vinyl		6159901110
A	150	6"	SC4 (P) - SNR815 - CP3576SP - CP3566SH	140	Velcro	6159901250	Vinyl		6159901190
A	125	6"	SC3 (P) 8/14 - CP3575 VP-CP3565VH	105	Velcro 5 holes	6159901240	Vinyl 5 holes		6159901100
A	150	6"	SC4 (P) 8/14 and SNR815... VIVE - CP3576VP - CP3566VH	140	Velcro 6 holes	6159901260	Vinyl 6 holes		6159901180

## SANDING PADS AND BASE PLATES FOR ORBITAL SANDERS

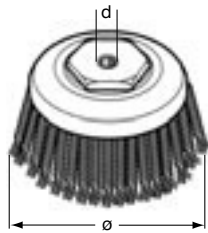
PICTURE REF	DIMENSION		use with	TYPE	part no.	BASE PLATE USED WITH		part no.
	mm	in.						
B	150 x 75	2.95" x 5.91"	SV2/CP3551	Vinyl	6153500170	SV2		6159900930
B	170 x 93	6.69" x 3.66"	SV3/SN083/CP3553	Vinyl	6153500180	SV3		6159900940
B	215 x 113	8.46" x 4.45"	SV4	Vinyl	6153500190	SV4		6159900950

# Abrasive Accessories

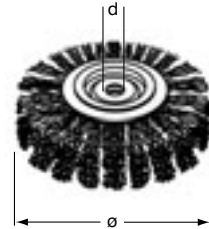
A



B



C



## SANDING BELTS

PICTURE REF	BELT LENGTH		BELT WIDTH		PART NO. BY GRIT				
	mm	in.	mm	in.	P40	P50	P60	P80	P100
A	480	18.9"	16	0.63"	6158483130	6158483140	6158483150	6158483160	6158483170
A	480	18.9"	20	0.78"	6158483230	6158483240	6158483250	6158483260	6158483270
A	480	18.9"	25	1"	6158483330	6158483340	6158483350	6158483360	6158483370

PICTURE REF	BELT LENGTH		BELT WIDTH		PART NO. BY GRIT			
	mm	in.	mm	in.	P120	P150	P180	P240
A	475	18.7"	16	0.63"	6158483180	6158483190	6158483200	
A	480	18.9"	20	0.78"	6158483280	6158483290	6158483300	6158483310
A	480	18.9"	25	1"	6158483380	6158483390		

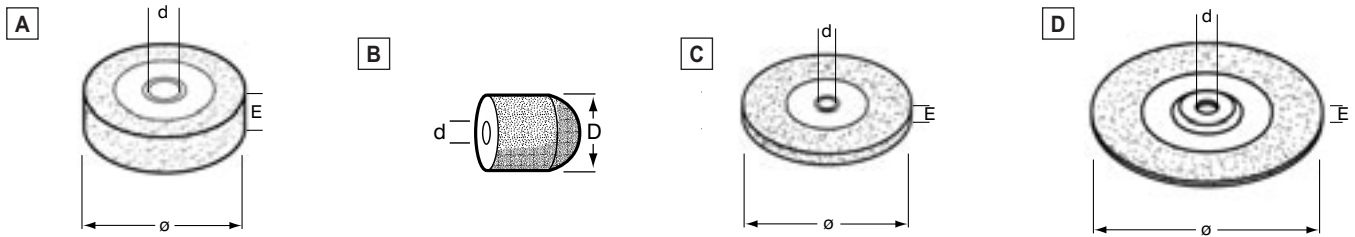
## CUP BRUSHES

PICTURE REF	FREE SPEED	Ø		THREAD d	TYPE	WIRE Ø		part no.
	rpm	mm	in.		mm	mm	in.	
B	6500	80	3"	5/8" - 11f.	Stranded Wire	5/10	0.12"/10	6158040650
B	4500	100	4"	5/8" - 11f.	Wavy Wire	3/10	0.2"/10	6158040730
B	4500	100	4"	5/8" - 11f.	Wavy Wire	5/10	0.12"/10	6158040660
B	6500	120	4.7"	5/8" - 11f.	Wavy Wire	3/10	0.2"/10	6158040670
B	4500	150	6"	5/8" - 11f.	Wavy Wire	3/10	0.2"/10	6158040690
B	4500	150	6"	5/8" - 11f.	Stranded Wire	8/10	0.31"/10	6158040710
B	6500	120	4.7"	5/8" - 11f.	Stranded Wire	8/10	0.31"/10	6158040680

## RADIAL-WIRE BRUSHES

PICTURE REF	FREE SPEED	Ø		THREAD d		TYPE	WIRE Ø		part no.
	rpm	mm	in.	mm	in.		mm	in.	
C	4500	100	4"	15.8	5/8" f	Wavy Wire	5/10	0.12"/10	6158541550
C	4500	150	6"	15.8	5/8" f	Wavy Wire	3/10	0.2"/10	6158581530

# Abrasive Accessories



## STRAIGHT GRINDING WHEEL WHEEL TYPE 01 FOR STEEL

PICTURE REF	FREE SPEED	Ø		E		d		part no.
	rpm	mm	in.	mm	in.	mm	in.	
A	15000	63	2.5"	12.7	0.5"	9.5	3/8"	6158400600
A	12000	80	3"	20	0.78"	12.7	1/2"	6158400810
A	9500	100	4"	25	1"	15.8	5/8"	6158401000
A	6400	150	6"	25	1"	15.8	5/8"	6158401500

## STRAIGHT GRINDING WHEEL WHEEL TYPE 18R FOR STEEL

PICTURE REF	FREE SPEED	D		d	part no.
	rpm	mm	in.	in.	
B	15000	63	2.5"	5/8" x 11f	6158400630
B	12000	76	3"	5/8" x 11f	6158400830

## REINFORCED WHEEL TYPE 41 (1R) FOR STEEL

PICTURE REF	FREE SPEED	Ø		E		d		part no.
	rpm	mm	in.	mm	in.	mm	in.	
C	20000	76	3"	1.8	0.07"	9.5	3/8"	6158420810
C	20000	76	3"	6.4	1/4"	9.5	3/8"	6158420850
C	10000	150	6"	25	1"	25	1"	6158421500

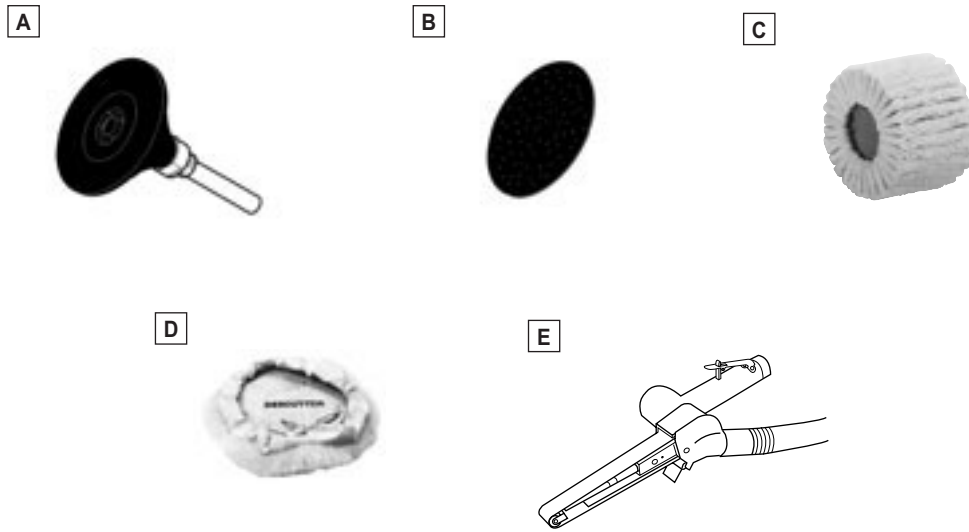
## DEPRESSED CENTRE WHEEL TYPE 27 & 42\* FOR STEEL

PICTURE REF	FREE SPEED	Ø		E		d		part no.
	rpm	mm	in.	mm	in.	mm	in.	
D	20000	76	3"	2.5	0.1"	10	0.39"	6158410060*
D	20000	76	3"	7.0	0.28"	10	0.39"	6158410030
D	15000	100	4"	3.2	0.13"	15.8	5/8"	6158411030
D	15000	100	4"	6.4	0.25"	15.8	5/8"	6158411060
D	12000	127	5"	1.8	0.07"	22.2	7/8"	6158421270
D	12000	127	5"	3.2	0.13"	22.2	7/8"	6158411230
D	12000	127	5"	4.8	0.19"	22.2	7/8"	6158411250
D	12000	127	5"	6.4	0.25"	22.2	7/8"	6158411260

## CONE SPACER

THREAD SIZE	part no.
3/8" - 24 Female	C050901

# Abrasive Accessories



## BACKING PAD WITH 6mm Ø SHANK

PICTURE REF	SPEED		Ø		part no.
	rpm		mm	in.	
A	25000		50	2"	6158040980

## ABRASIVE DISCS

PICTURE REF	SPEED		GRIT	part no.
	rpm			
B	25000		P40	6158040990
B	25000		P60	6158041000
B	25000		P80	6158041010
B	25000		P120	6158041020

## POLISHING ACCESSORIES

### SISAL BRUSH

PICTURE REF	SIZE		THREAD SIZE	part no.
	mm	in.		
C	90 x 63.5	3 1/2" x 2 1/2"	3/8 UNF Female	70852

### LAMBSWOOL POLISHING MOP 7" Ø

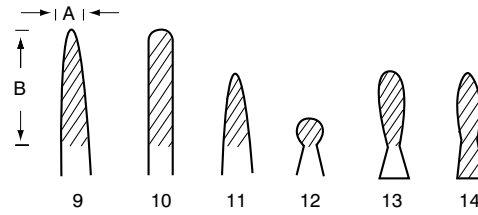
PICTURE REF	use with	part no.
D	H 700, SNC018	9092008701

### DUST EXTRACTION HOOD KIT

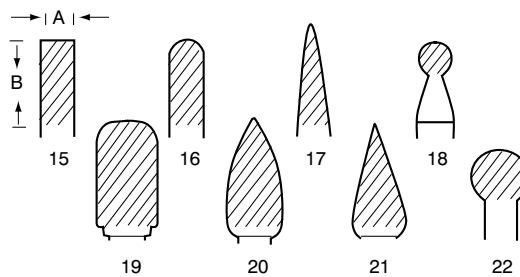
PICTURE REF	use with	part no.
E	PL05 & F 761	6155705550 + 6156161180 Screw

# Abrasive Accessories

**A**



**B**



## COLLET GRINDER ACCESSORIES

Tungsten Carbide Burrs are suitable for cutting unhardened and hardened steels, stainless, weld seams, steel castings, light and non-ferrous metals, plastics.

**TUNGSTEN CARBIDE BURRS 3mm Ø SHANK** Can also be used with collet type 200 & 300 Series (1/8")  
Tool models 05, AS11, AS147, DB700 must be fitted with 3mm collet

PICTURE REF		A		B		part no.
		mm	in.	mm	in.	
A	9	3	1/8"	13	1/2"	38122
A	10	3	1/8"	13	1/2"	38132
A	12	3	1/8"	3	1/8"	38152

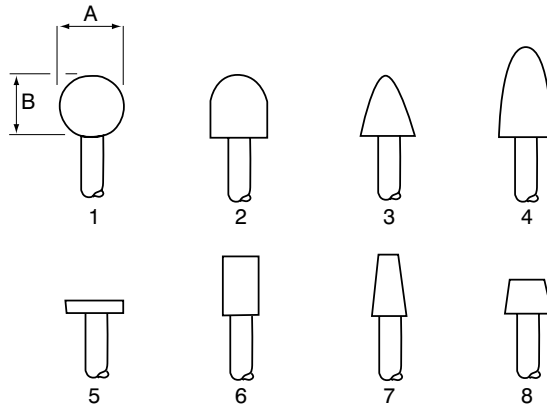
**TUNGSTEN CARBIDE BURRS 6mm Ø SHANK** Can also be used with collet type 200 & 300 Series (1/4")

PICTURE REF		A		B		part no.
		mm	in.	mm	in.	
B	15	6	1/4"	13	1/2"	38182
B	16	6	1/4"	16	5/8"	38192
B	17	6	1/4"	19	3/4"	38202
B	18	6	1/4"	6	1/4"	38222
B	19	10	3/8"	19	3/4"	36122
B	20	10	3/8"	19	3/4"	36132
B	21	10	3/8"	19	3/4"	36142
B	22	10	3/8"	10	3/8"	38232

⚠ Recommended speeds for Carbide Burrs with 12.7mm or 1/2" spindle overhang: see table on page 53

# Abrasive Accessories

A



## COLLET GRINDER ACCESSORIES

Aluminium Oxide Mounted Points are available in red grades. Red grades are suitable for grinding high tensile materials such as ordinary and alloy steels, high speed steel and annealed malleable iron.

**MOUNTED POINTS 3mm Ø SHANK – RED** Can also be used with collet type 200 & 300 Series (1/8")

Tool models 05, AS11, AS147, DB700 must be fitted with 3mm collet

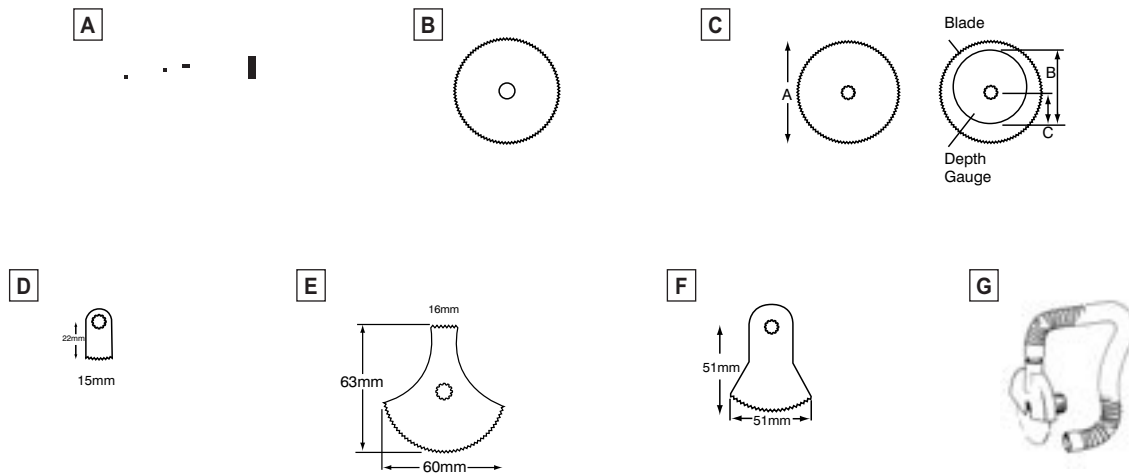
PICTURE REF		MAX* SPEED	A		B		part no.
			mm	in.	mm	in.	
A	1	104000	5	0.19"	5	0.19"	38582
A	3	104000	5	0.19"	8	0.31"	38522
A	6	81000	6	0.25"	6	0.25"	38632
A	7	105000	4	0.16"	4	0.16"	38562
A	8	81000	6	0.25"	6	0.25"	38542

**MOUNTED POINTS 6mm Ø SHANK – RED** Can also be used with collet type 200 & 300 Series (1/4")

PICTURE REF		MAX* SPEED	A		B		part no.
			mm	in.	mm	in.	
A	1	59000	16	0.62"	16	0.62"	435983
A	2	50000	20	0.79"	16	0.62"	435993
A	3	45000	20	0.79"	28	1.1"	436003
A	4	48000	20	0.79"	32	1.26"	436013
A	5	53000	20	0.79"	22	0.87"	436023
A	6	40000	13	0.51"	25	1.0"	436033
A	6	38000	25	1.0"	3	0.11"	436043

\* Maximum permissible speed with 12.7mm or 1/2" spindle overhang.

# Cutting, Cleaning & Rivetting Accessories



## SAW BLADES FOR SWL9500

PICTURE REF	LENGTH		TOOTH PITCH		part no.
	mm	in.	mm	in.	
A	75	3"	1.0	0.04"	80132
A	75	3"	1.8	0.07"	80152

## SAW BLADES FOR S144 & D144

PICTURE REF	BLADE		CENTRE HOLE		TOOTH PITCH		MAX. CUTTING DEPTH		APPLICATION	USED ON AIR SAW	part no.
	Ø mm	in.	Ø mm	in.	mm	in.	mm	in.			
B	45	1.75"	10	0.39"	1.75	0.07"	5	0.2"	Soft steel to 1.2mm	S144	76362
B	50	2"	10	0.39"	2.5	0.10"	7.5	0.3"	Soft steel over 1.2mm	S144	76372
B	50	2"	10	0.39"	1.75	0.07"	7.5	0.3"	Hard steel to 1.2mm	S144	76382
B	50	2"	10	0.39"	4.75	0.19"	7.5	0.3"	Aluminium	S144	76392
B	64	2.5"	13	0.51"	plain O.D diamond coated		-	-	Fibreglass, plastics, ceramics	D144	32732
B	64	2.5"	13	0.51"	2.5	0.10"	-	-	Plywood, hardboard, laminated hardboard	D144	34252

## SAW BLADES FOR D170

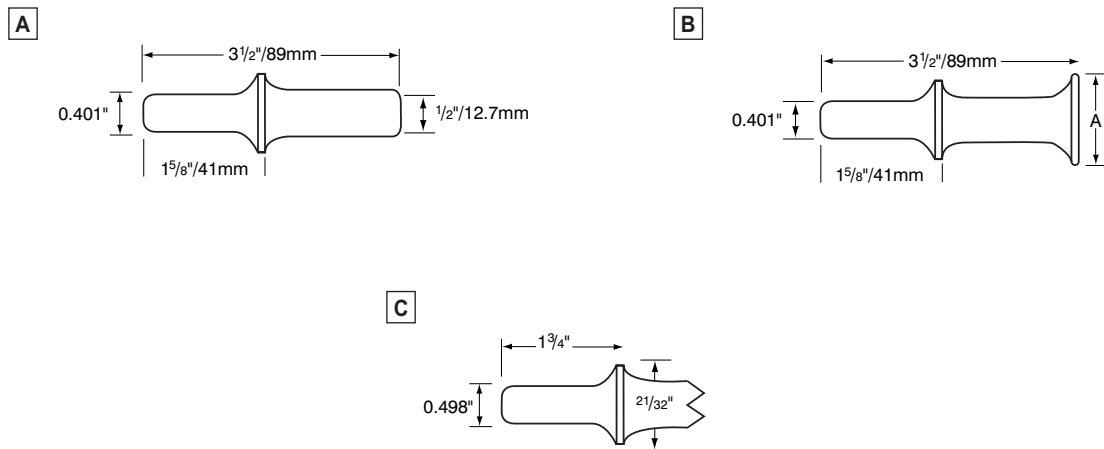
PICTURE REF	ØA		TYPE	APPLICATION	part no.	DEPTH GAUGE ØC				
	mm	in.				mm	in.	mm	in.	part no.
C	63.5	2.5"	Plain O.D. diamond coated		16962	44.5	1 3/4"	19	3/4"	27262
C	63.5	2.5"	1.2mm pitch diamond coated	Fibreglass	90722	63.5	2 1/2"	26.6	1 1/16"	27272
C	80	3.2"	1.2mm pitch diamond coated		90732					
C	51	2"	1.5mm pitch	Soft wood	90782					
C	63.5	2.5"	1.8mm pitch	and	90792					
C	76	3"	1.5mm pitch	Cardboard	90802					
C	63.5	2.5"	1.2mm pitch	Plastics	90762					
C	80	3.2"	1.2mm pitch		90772					
D			Segment blade	Soft wood	90822					
F			Segment blade	and	90832					
E			Segment blade	Cardboard	90842					

## DUST EXTRACTOR HOOD FOR D170

PICTURE REF	Ø		part no.
	mm	in.	
G	32	1 1/4"	78472

Kit contains hood plus 3m/10ft length of extraction hose with Ø 32mm/1 1/4" ID inlet.

# Cutting, Cleaning & Rivetting Accessories



## RIVET SETS FOR CP-4444 & CP-4450 HAMMERS

### Type I Rivet Sets Shank for CP-4444 & CP-4450 Riveting Hammer

PICTURE REF	RIVET HEAD CUPPING (See pages 54 & 55)	RIVET SET PART NUMBERS BY RIVET BODY DIA.				
		3/32" (2.4mm)	1/8" (3.2mm)	5/32" (4.0mm)	3/16" (4.8mm)	1/4" (6.4mm)
A	Round (AN-430)	P089206	P089207	P089208	P089209	P089210*
A	Brazier (AN-455)	P089211	P089212	P089213		P089215*
A	Universal (AN-470)	P089221	P089222	P089223	P089224	P089225*
A	Soft Blank Set	P071108				
A	Hardened Blank Set	P080178				

\* Must use Light Wire Quick-Change Retainer, A-046095 with these sets.

### Type I Flush Rivet Sets

PICTURE REF	A		.401" SHANK	.498" SHANK
	mm	in.		
B	25.4	1"	A046090	
B	31.8	1 1/4"	A089232	A047091
B	38.1	1 1/2"	A089233	
B	44.5	1 3/4"	A046091	

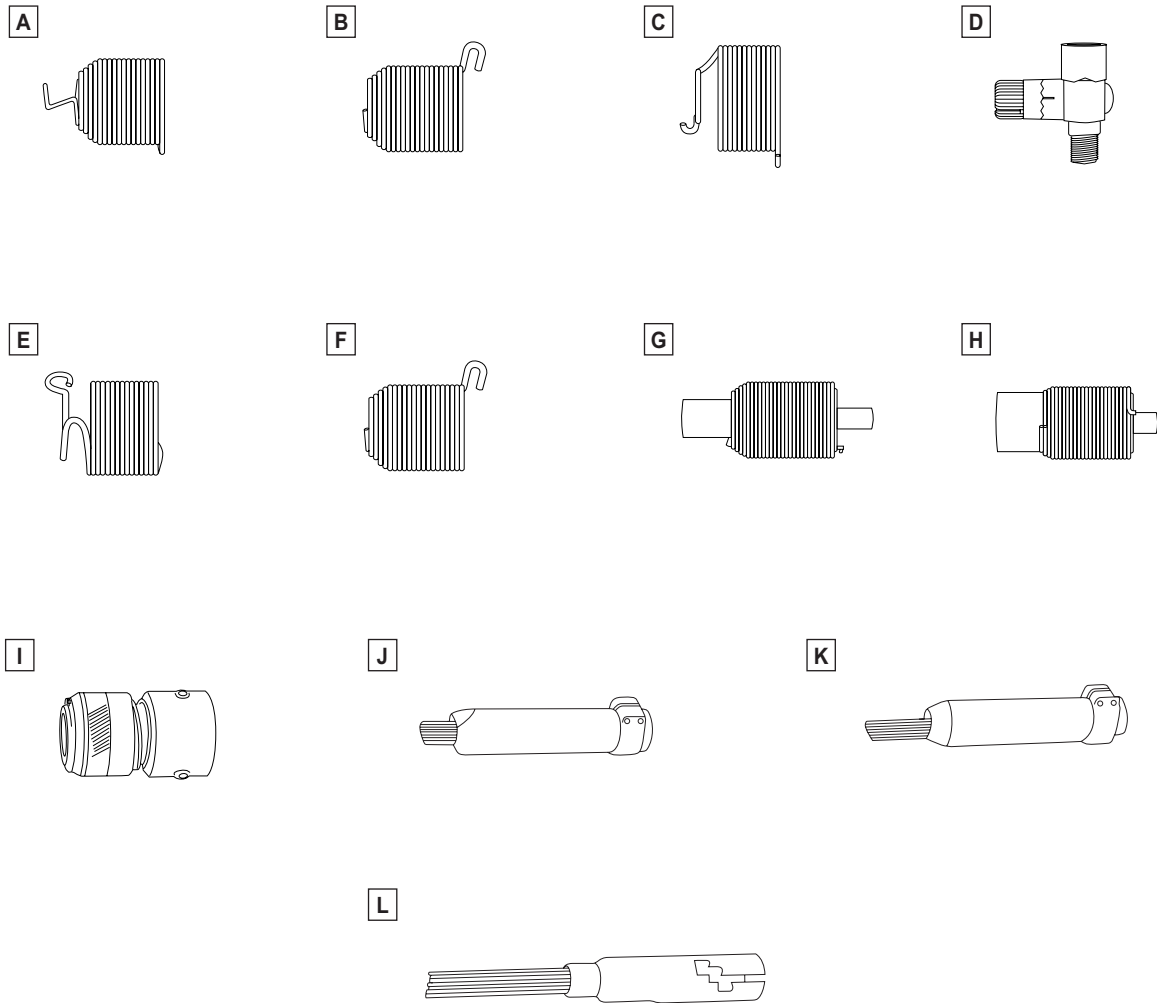
## RIVET SETS FOR CP-4447 & CP-4475 HAMMERS WITH .498" SHANK SIZE

### Type D Rivet Sets

PICTURE REF	RIVET HEAD CUPPING (See pages 54 & 55)	RIVET SET PART NUMBERS BY RIVET BODY DIA.		
		3/16" (4.8mm)	1/4" (6.4mm)	5/16" (8.0mm)
C	Round (AN-430)	P089240	P089241	P089242*
C	Brazier (AN-455)	P089244	P089245	
C	Modified Brazier (AN-456)	P089248	P089244	P089245*
C	Universal (AN-470)	P089252	P089253	P089254*
C	Soft Blank Set	P070995		
C	Hardened Blank Set	P080198		

\* Must use Standard Wire Quick-Change Retainer, A-047095 with these sets

# Cutting, Cleaning & Rivetting Accessories



## ATTACHMENTS AND RETAINERS FOR CP-4444, CP-4450 & CP-4447

PICTURE REF	use with	TYPE	part no.
A	CP-4444, 4450	Zip-Quick Retainer	A046094
B	CP-4444, 4450	Beehive Retainer	A074498
C	CP-4444, 4450	Light Wire Quick-Change Retainer	A092007
D		Air Inlet Regulation – 1/4" NPT	CA085203
E	CP-4447	Wire Quick-Change Retainer	A051282
F	CP-4447	Beehive Retainer	A047096
G	CP-4447	Nail Driving Attachment for 20-60 Penny Nail Size (for use with CP-4447 RUSAB)	P042448
H	CP-4447	Nail Driving Attachment for 12" Spikes (for use with CP-4447 RUVAB)	P047810
I	CP-4444/4447/9311/ 711/9315/715	Quick Change Retainer	A121721

## NEEDLE SCALER ATTACHMENTS FOR HAMMERS

PICTURE REF	DESCRIPTION	part no.
J	For CP-0456-LASAV Rectangular Nose	P103106
K	For CP-0456-LASAN Round Nose	P103105
L	For CP-9356-NS Round Nose	P136983

# Cutting, Cleaning & Rivetting Accessories



## CHISELS FOR CP-0456, CP-0457, CP-0458 AND CP-9356 WELD FLUX CHIPPERS

PICTURE REF	TYPE WF, B STYLE CHISEL	OVERALL LENGTH		TYPE WF FOR CP-0456, CP-0457, CP-0458 WITH WF RETAINER	TYPE B FOR CP-9356 WITH B RETAINER
		mm	in.		
	(see point illustrations above)				
A	Round Nose, 1/4" (6.4mm) face	191	7 1/2"	P073222	-
B	Flat Chisel, 5/8" (15.9mm) face	102	4"	P073781	WP123997
B	Flat Chisel, 5/8" (15.9mm) face	191	7 1/2"	P073225	WP123996
B	Flat Chisel, 1 3/8" (35mm) face	102	4"	P072213	-
B	Flat Chisel, 1 3/8" (35mm) face	165	6 1/2"	-	WP123998
B	Flat Chisel, 1 3/8" (35mm) face	229	9"	P084175	-
B	Flat Chisel, 1 3/8" (35mm) face	305	12"	P084176	-
B	Flat Chisel, 1 3/8" (35mm) face	457	18"	P084177	-
B	Flat Chisel, 1 3/4" (44mm) face	213	5 3/8"	P070982	-
	Angle Scaling 1 3/8" (35mm) face	165	6 1/2"	P084376	WP123999
C	Cape, 1/4" (6.4mm) face	191	7 1/2"	P073224	-
D	Diamond Pt. 1/4" (6.4mm) face	191	7 1/2"	P073223	WP123995
	Peening Tool, 3/16" (14.8mm) Spher. Rad.	102	4"	P072215	-
	Chisel Blank	178	7"	P008917	WP123994

## NEEDLE SETS FOR CP-0456, CP-0951, CP-0952, CP-9356 HAMMERS

DIAMETER		LENGTH		NO. NEEDLES PER SET	STEEL
mm	in.	mm	in.		
1/8"	3	178	7"	19	P100146
5/64"	2	178	7"	29	NP123905
5/64"	2	178	7"	53	NP123906
3/64"	2.4	178	7"	14	NP123934
1/8"	3	127	5"	19	P136403
1/8"	3	178	7"	12	NP123901
1/8"	3	178	7"	19	P100146
1/8"	3	178	7"	23	NP123902
1/8"	3	178	7"	28	NP123903

DIAMETER		LENGTH		NO. NEEDLES PER SET	STEEL NEEDLEPAK
mm	in.	mm	in.		
3	1/8"	178	7"	250	NP137638

DIAMETER		LENGTH		NO. NEEDLES PER SET	BERRYLLIUM
mm	in.	mm	in.		
3	1/8"	178	7"	19	P106455

DIAMETER		LENGTH		NO. NEEDLES PER SET	STAINLESS
mm	in.	mm	in.		
3	1/8"	178	7"	19	P106454

# Cutting, Cleaning & Rivetting



## COMPRESSION RIVETERS ACCESSORIES

### INSTRUCTIONS FOR SELECTING RIVET SETS TO FIT CP-0214, CP-0351 RIVETERS

To develop maximum power, the riveter must drive the rivet near the end of the riveter's stroke. For maximum power the combined length of the two rivet sets must be of the correct length. Determine the correct lengths as follows:

#### When two cupped rivet sets are used

The sum of dimensions "A" of the two rivet sets should equal the closed height dimension of the yoke minus the total thickness of material being riveted.

#### When one cupped set and one flush set are used

The sum of dimensions "A" of the two rivet sets should equal the closed height dimension of the yoke minus the total thickness of the material being riveted and the height of the finished rivet head driven by the flush set.

#### When two flush sets are used

The sum of dimensions "A" of the two rivet sets should equal the closed height dimension of the yoke minus the overall length of the rivet after it is driven. If necessary, select rivet sets a little short and shim to proper length with hardened shims listed on page 49. The closed height dimension of the yoke referred to above is the opening available when jaws or plunger are in extreme closed or forward position with both rivet sets removed.

### Compression Rivet Sets

(Complete with retaining rings). Minimum Order: 6 of any part number.

**Note:** Illustrations above show one rivet set each. Part numbers are for one set, not a pair.

### CR-1 SHANK RIVET SETS FOR CP-0214 AND CP-0351 – CUPPED SETS

PICTURE REF	RIVET DIA.		A BODY LENGTH		AN-435 BUTTON	AN-430 ROUND	AN-455 BRAZIER	AN-456 MODIFIED BRAZIER	AN-470 UNIVERSAL	AN-442 FLAT
	mm	in.	mm	in.	part no.	part no.	part no.	part no.	part no.	part no.
A	2.4	3/32"	6.4	1/4"	P091601	P089370	P089390	P089410	P089430	P091621
A			9.5	3/8"	P091602	P089371	P089391	P089411	P089431	P091622
A			12.7	1/2"	—	—	—	P089412	P089432	P091623
A	3.2	1/8"	6.4	1/4"	P091606	P089375	P089395	P053826	P089435	P091626
A			9.5	3/8"	P091607	P089376	—	P053827	P089436	P091627
A			12.7	1/2"	P091608	P089377	P089397	—	P089437	P091628
A	4.0	5/32"	6.4	1/4"	P091611	P089380	P089400	P053831	P089440	P091631
A			9.5	3/8"	P091612	P089381	P089401	P053832	P089441	P091632
A			12.7	1/2"	P091613	P089382	P089402	P053833	P089442	P091633
A	4.8	3/16"	6.4	1/4"	P091616	P089385	P089405	P053836	P089445	P091636
A			9.5	3/8"	P091617	P089386	P089406	P053837	P089446	P091637
A			12.7	1/2"	P091618	P089387	P089407	P053838	P089447	P091638

**Note:** Dimensions of Standard Rivets shown on pages 54 and 55.

# Cutting, Cleaning & Rivetting Accessories

## COMPRESSION RIVETERS ACCESSORIES

### CR-2 SHANK RIVET SETS FOR CP-0341, CP-0214 & CP-0351 – CUPPED SETS

PICTURE REF	RIVET DIA.		A BODY LENGTH		AN-435 BUTTON	AN-430 ROUND	AN-455 BRAZIER	AN-470 UNIVERSAL	AN-442 FLAT
	mm	in.	mm	in.	part no.	part no.	part no.	part no.	part no.
A (p.52)	3.2	1/8"	6.4	1/4"	–	–	–	P089510	P091661
A (p.52)			9.5	3/8"	P091642	–	–	P089511	–
A (p.52)			12.7	1/2"	–	–	–	P089512	P091663
A (p.52)	4.0	5/32	6.4	1/4"	–	P089455	–	P089515	–
A (p.52)			9.5	3/8"	–	–	–	P089516	P091667
A (p.52)			12.7	1/2"	P091648	–	–	P089517	P091668
A (p.52)	4.8	3/16"	6.4	1/4"	–	P089460	P089480	P089520	P091671
A (p.52)			9.5	3/8"	–	P089461	P089481	P089521	P491672
A (p.52)			12.7	1/2"	P091653	–	–	P089482	P089522
A (p.52)	6.4	1/4"	6.4	1/4"	–	P089465	P089485	P089525	P091676
A (p.52)			9.5	3/8"	–	P089466	P089486	P089526	–
A (p.52)			12.7	1/2"	–	P089467	–	P089527	P091678

### SET LENGTH SPACER SHIMS

TYPE RIVET SET SHANK	PART NUMBERS OF HARDENED SHIMS		
	1/64" thick (0.4mm)	1/32" thick (0.8mm)	1/16" thick (1.6mm)
CR-1	P083254	P083255	P083256
CR-2	–	P083257	P083258

### SOFT SET BLANKS

TYPE RIVET SET SHANK	BODY LENGTH		BODY DIA.		part number
	mm	in.	mm	in.	
CR-1	19.1	3/4"	15.9	5/8"	P093672
CR-2	19.1	3/4"	19.1	3/4"	P093673

### SHANK DIMENSIONS FOR RIVET SETS For CP-0214, CP-0351 and CP-0341 Compression Riveters

PICTURE REF	TYPE RIVET SET SHANK	BODY LENGTH A AND CUPPING	B		C*		D		E		F		G	
			mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
A (p.52)	CR-1	See page 51	4.75-4.72	.187-.186	12.7	1/2"	12.7	1/2"	3.45-3.38	.136-.133	1.6	1/16"	3.23-3.12	.127-.123
A (p.52)	CR-2	See page 51	6.42-6.40	.249-.248	15.9	5/8"	15.9	5/8"	3.45-3.38	.136-.133	2.4	3/32"	4.80-4.70	.189-.185

\* "C" dimension is for flush set only. "C" varies on cupped sets according to rivet size and type of head.

### RETAINER RINGS

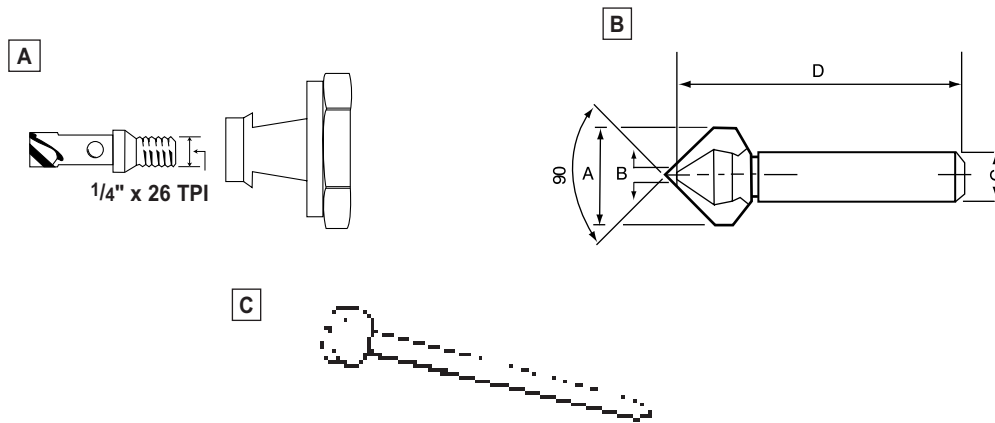
TYPE RIVET SET SHANK	part no.
CR-2	P071917

### FLUSH SETS FOR ANY RIVET SIZE

PICTURE REF	SHANK SIZE	A BODY LENGTH					
		1/8" (3.2mm)	1/4" (6.4mm)	3/8" (9.5mm)	1/2" (12.7mm)	5/8" (15.9mm)	3/4" (19.1mm)
B (p.52)	CR-1	P089495	P089496	P089497	P089498	P089499	P089500
B (p.52)	CR-2	–	P089501	P089502	P089503	P089504	P089505

Note: Dimensions of Standard Rivets shown on pages 54 and 55.

# Cutting, Cleaning & Rivetting Accessories



## RIVET MILLING ACCESSORIES – CUTTERS & GUARDS

PICTURE REF	Ø CUTTER	MAX RIVET HEAD SIZE		A	B
		mm	mm	in.	part no.
A	6.4	4.9	1/4"	70572	18782
A	9.5	7.9	3/8"	70592	18802
A	11.1	9.5	7/16"	70602	18822
A	12.7	11.1	1/2"	70622	18832
A	14.3	12.7	9/16"	–	18842

## DEBURRING TOOLS – CUTTERS & DEPTH STOP

PICTURE	ØA	ØB	D	N° of FLUTES	SHANK ØC	part no.
	mm	mm	mm		mm	
B	6.4	4.9	1/4"	3	6	91572

Coutersink Depth Stop for C27: part no. 322053

## FOR CP-9361 AIR SCRIBE

### CHISEL ASSEMBLY

DESCRIPTION	part no.
Chisel Assembly includes: Holder (includes Stylus), Chisel (Round Nose), Chisel (Flat 1/4"), Chisel (Blank), Anvil, "O" Ring (Anvil), Container	P058425

### SERVICE KITS

DESCRIPTION	part no.
Repair Kit	P059264

### REPLACEMENT NEEDLE FOR VP2-X

PICTURE REF	DESCRIPTION	part no.
C	Replacement tungsten carbide tipped needle for VP2-X	63213

# Reference Tables

## CONVERSION TABLE

inch	decimal	millimeter	inch	decimal	millimeter	inch	decimal	millimeter
1/64	.0156	0.3969	11/32	.3438	8.7313		.6693	17.0000
1/32	.0313	0.7938		.3543	9.0000	43/64	.6719	17.0656
	.0394	1.000		.3543	9.0000	11/16	.6875	17.4625
3/64	.0469	1.1906	23/64	.3594	9.1281	45/64	.7031	17.8594
1/16	.0625	1.5875	3/8	.3750	9.5250		.7087	18.0000
5/64	.0781	1.9844	25/64	.3906	9.9219	23/32	.7188	18.2563
	.0787	2.0000		.3937	10.0000	47/64	.7344	18.6531
3/32	.0938	2.3813	13/32	.4063	10.3188		.7480	19.0000
7/64	.1094	2.7781	27/64	.4219	10.7156	3/4	.7500	19.0500
	.1181	3.0000		.4331	11.0000	49/64	.7656	19.4469
1/8	.1250	3.1750	7/16	.4375	11.1125	25/32	.7813	19.8438
9/64	.1406	3.5719	29/64	.4531	11.5094		.7874	20.0000
5/32	.1563	3.9688	15/32	.4688	11.9063	51/64	.7969	20.2406
	.1575	4.0000		.4724	12.0000	13/16	.8125	20.6375
11/64	.1719	4.3656	31/64	.4844	12.3031		.8268	21.0000
3/16	.1875	4.7625	1/2	.5000	12.7000	53/64	.8281	21.0344
	.1969	5.0000		.5118	13.0000	27/32	.8438	21.4313
13/64	.2031	5.1594	33/64	.5156	13.0969	55/64	.8594	21.8281
7/32	.2188	5.5563	17/32	.5313	13.4938		.8661	22.0050
15/64	.2344	5.9531	35/64	.5469	13.8906	57/64	.8906	22.6219
	.2362	6.0000		.5512	14.0000		.9055	23.0000
15/64	.2344	5.9531	9/16	.5625	14.2875	29/32	.9063	23.0188
1/4	.2500	6.3500	37/64	.5781	14.6844	59/64	.9219	23.4156
17/64	.2656	6.7469		.5906	15.0000	15/16	.9375	23.8125
	.2756	7.0000	19/32	.5938	15.0813		.9449	24.0000
9/32	.2813	7.1438	39/64	.6094	15.4781	61/64	.9531	24.2094
19/64	.2969	7.5406	5/8	.6250	15.8750	31/32	.9688	24.6063
5/16	.3125	7.9375		.6299	16.0000		.9843	25.0000
	.3150	8.0000	41/64	.6406	16.2719	63/64	.9844	25.0031
21/64	.3281	8.3344	21/32	.6563	16.6688	1	1.0000	25.4000

## TORQUE CONVERSIONS

DECINEWTON METRES/ POUND FORCE INCHES			CENTINEWTON METRES/ OUNCE FORCE INCHES			NEWTON METRES/ POUND FORCE INCHES			NEWTON METRES/ POUND FORCE FEET		
dNm		lbf in	cNm		ozf in	Nm		lbf in	Nm		lbf ft
1.130	1	0.885	0.706	1	1.416	0.113	1	8.851	1.35582	1	0.73756
2.26	2	1.77	1.41	2	2.83	0.23	2	17.70	2.71	2	1.48
3.39	3	2.66	2.12	3	4.25	0.34	3	26.55	4.07	3	2.21
4.52	4	3.54	2.82	4	5.66	0.45	4	35.04	5.42	4	2.95
5.65	5	4.42	3.53	5	7.08	0.57	5	44.25	6.78	5	3.69
6.78	6	5.31	4.24	6	8.49	0.68	6	53.10	8.13	6	4.43
7.91	7	6.20	4.94	7	9.91	0.79	7	61.95	9.49	7	5.16
9.04	8	7.08	5.65	8	11.33	0.90	8	70.81	10.85	8	5.90
10.17	9	7.97	6.35	9	12.74	1.02	9	79.66	12.20	9	6.64
11.30	10	8.85	7.06	10	14.16	1.13	10	88.51	13.56	10	7.38
12.43	11	9.74	7.77	11	15.58	1.24	11	97.36	14.91	11	8.11
13.56	12	10.62	8.47	12	16.99	1.36	12	106.21	16.27	12	8.85
14.69	13	11.51	9.18	13	18.41	1.47	13	115.06	17.63	13	9.56
15.82	14	12.39	9.88	14	19.82	1.58	14	123.91	18.96	14	10.33
16.95	15	13.28	10.59	15	21.24	1.70	15	132.76	20.34	15	11.06
18.08	16	14.16	11.30	16	22.66	1.81	16	141.61	21.69	16	11.80
19.21	17	15.05	12.00	17	24.07	1.92	17	150.46	23.05	17	12.54
20.34	18	15.93	12.71	18	25.49	2.03	18	159.31	24.41	18	13.28
21.47	19	16.82	13.41	19	26.90	2.15	19	168.16	25.76	19	14.01
22.60	20	17.70	14.12	20	28.32	2.26	20	177.01	27.12	20	14.75

# Reference Tables

## TORQUE VALUES

⊖ Slotted Screwdrivers and Bits

○ Hexagon Wrenches

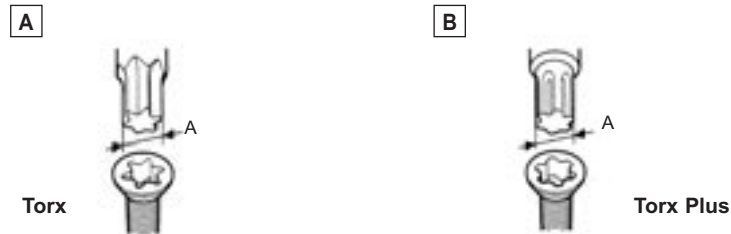
⊕ ⊕ Phillips and Pozidriv Screwdrivers

⊖		○		⊕ ⊕	
TORQUE IN NM (MAX)		TORQUE IN NM (MAX)		TORQUE IN NM (MIN)	
a x b mm	poweruse	AF mm	poweruse		poweruse
0.3 x 2.0	0,20	0,7	0,08	0	1,0
0.4 x 2.0	0,35	0,9	0,18	1	3,9
0.4 x 2.5	0,45	1,3	0,53	2	10,3
0.5 x 3.0	0,80	1,5	0,82	3	32
0.5 x 3.5	0,98	2,0	1,9		
0.6 x 3.5	1,40	2,5	3,8		
0.6 x 4.0	1,61	3	6,6		
0.6 x 4.5	1,80	3,5	11		
0.8 x 4.0	2,90	4	16		
0.8 x 5.0	3,58	4,5	24		
0.8 x 5.5	3,90	5	30		
1.0 x 5.5	6,20	6	52		
1.0 x 6.5	7,28	7	78		
1.0 x 7.0	7,80	8	120		
1.2 x 6.5	10,50	9	180		
1.2 x 7.0	11,28	10	220		
1.2 x 8.0	12,90	11	295		
1.4 x 9.0	19,70	12	370		
1.5 x 1.3	32	13	480		
1.6 x 8.0	22,9	14	590		
1.6 x 9.0	25	17	1000		
1.6 x 10	28,7	19	1000		
2.0 x 12	53	22	1000		
2.0 x 13	58	24	1000		
2.5 x 14	98	27	1000		
2.5 x 16	112				
3.0 x 18	181				


⊕ Tools with Torx® and Torx Plus® drive

	TORQUE IN NM (MIN)	
⊕	Torx® Bit	Torx Plus® Bit
6	0,91	1,1
7	1,7	2,1
8	2,6	3,2
9	3,4	4,2
10	4,5	5,4
15	7,7	9,6
20	12,7	16,2
25	19,0	23,5
27	26,9	34,6
30	37,4	47,2
40	65,1	82,1


# Reference Tables



## DIMENSION OF TORX BIT PROFILES

PICTURE REF		TORX® RECESS SCREWS A REF.
		mm
A	TX 6	1,65
A	TX 7	1,97
A	TX 8	2,3
A	TX 9	2,48
A	TX 10	2,72
A	TX 15	3,26
A	TX 20	3,84
A	TX 25	4,4
A	TX 27	4,96
A	TX 30	5,49
A	TX 40	6,6

## DIMENSION OF TORX PLUS BIT PROFILES

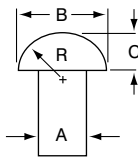
PICTURE REF		TORX PLUS® RECESS SCREWS A REF.
		mm
B	7 IP	1,97
B	8 IP	2,29
B	9 IP	2,48
B	10 IP	2,72
B	15 IP	3,25
B	20 IP	3,84
B	25 IP	4,39
B	27 IP	4,95
B	30 IP	5,49
B	40 IP	6,60
B	45 IP	7,77

## RECOMMENDED SPEEDS FOR TUNGSTEN CARBIDE BURRS – r/min x 1000

MATERIAL	HEAD DIAMETER									
	3mm	1/8"	6mm	1/4"	10mm	3/8"	13mm	1/2"	16mm	5/8"
Alum, Zinc Base, Plastics	30-90		15-70		10-50		17-38		6-30	
Cast Iron, Brass, Copper, Bronze	45-90		23-60		15-40		11-30		9-24	
Mild Steel	60-90		45-60		30-40		22-30		18-24	
Titanium, Stainless, Hardened Steels, Ceramics	60-90		30-45		19-30		15-22		12-18	

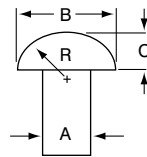
# Reference Tables

**A**



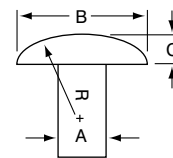
**AN-435  
Button**

**B**



**AN-430  
Round**

**C**



**AN-455  
Brazier**

## DIMENSIONS OF STANDARD RIVETS

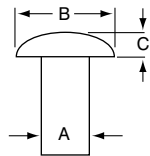
PICTURE REF	AN-435 A.S.A. BUTTON		A		B		C		R	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
A	3/32"	2.4	0.166"	4.22	0.070"	1.78	0.084"	2.13		
A	1/8"	3.2	0.219"	5.56	0.094"	2.39	0.111"	2.82		
A	5/32"	4.0	0.273"	6.93	0.117"	4.32	0.138"	3.51		
A	3/16"	4.8	0.328"	8.33	0.141"	3.58	0.166"	4.22		
A	1/4"	6.4	0.437"	11.10	0.188"	4.78	0.221"	5.61		
A	3/8"	9.5	0.656"	16.66	0.281"	7.14	0.332"	8.43		

PICTURE REF	AN-430 ROUND		A		B		C		R	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
B	3/32"	2.4	0.187"	4.75	0.070"	1.78	0.098"	2.49		
B	1/8"	3.2	0.250"	6.45	0.094"	2.39	0.130"	3.30		
B	5/32"	4.0	0.312"	7.92	0.117"	2.97	0.162"	4.11		
B	3/16"	4.8	0.375"	9.53	0.141"	3.58	0.195"	4.95		
B	1/4"	6.4	0.500"	12.70	0.188"	4.78	0.260"	6.60		
B	3/8"	9.5	0.750"	19.05	0.281"	7.14	0.391"	9.93		

PICTURE REF	AN-455 BRAZIER		A		B		C		R	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
C	3/32"	2.4	0.234"	5.94	0.047"	1.19	0.170"	4.32		
C	1/8"	3.2	0.312"	7.92	0.063"	1.60	0.226"	5.74		
C	5/32"	4.0	0.390"	9.90	0.078"	1.98	0.283"	7.19		
C	3/16"	4.8	0.468"	11.89	0.094"	2.39	0.340"	8.64		
C	1/4"	6.4	0.625"	15.83	0.125"	3.18	0.453"	11.51		
C	3/8"	9.5	0.940"	23.88	0.187"	4.75	0.680"	17.27		

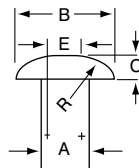
# Reference Tables

**A**



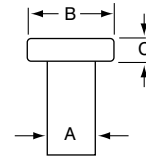
**AN-456  
Modified  
Brazier**

**B**



**AN-470  
Universal**

**C**



**AN-442  
Flat**

## DIMENSIONS OF STANDARD RIVETS

PICTURE REF	AN-456 MODIFIED BRAZIER	A		B		C	
		in.	mm	in.	mm	in.	mm
A		3/32"	2.4	0.156"	3.96	0.031"	7.90
A		1/8"	3.2	0.235"	5.97	0.047"	1.19
A		5/32"	4.0	0.312"	7.92	0.063"	1.60
A		3/16"	4.8	0.390"	9.91	0.078"	1.98
A		1/4"	6.4	0.468"	11.89	0.094"	2.39
A		3/8"	9.5	0.781"	19.84	0.156"	3.96

PICTURE REF	AN-470 UNIVERSAL	A		B		C		R		E	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
B		3/32"	2.4	0.187"	4.75	0.041"	1.04	0.082"	2.08	0.047"	1.19
B		1/8"	3.2	0.250"	6.45	0.054"	1.37	0.108"	2.74	0.063"	1.60
B		5/32"	4.0	0.312"	7.92	0.067"	1.70	0.135"	3.43	0.078"	1.98
B		3/16"	4.8	0.375"	9.53	0.082"	2.08	0.164"	4.17	0.094"	2.39
B		1/4"	6.4	0.500"	12.70	0.107"	2.72	0.217"	5.51	0.125"	3.18
B		3/8"	9.5	0.750"	19.05	0.164"	4.17	0.328"	8.33	0.187"	4.75

PICTURE REF	AN-442 FLAT	A		B		C	
		in.	mm	in.	mm	in.	mm
A		3/32"	2.4	0.187"	4.75	0.037"	0.94
A		1/8"	3.2	0.250"	6.45	0.050"	1.27
A		5/32"	4.0	0.312"	7.92	0.062"	1.57
A		3/16"	4.8	0.375"	9.53	0.075"	1.91
A		1/4"	6.4	0.500"	12.70	0.100"	2.54
A		3/8"	9.5	0.750"	19.05	0.150"	3.81