

*Desoutter*



**Industrial** Tools



## Accessories

*Optimized Workstation  
Fastening Accessories  
Air Line Network*

**More Than Productivity**



# More Than Productivity

Desoutter is your single source of electric and pneumatic tool solutions, covering a wide range of assembly and manufacturing processes in the motor vehicle, aerospace, general industry and light assembly sectors

Desoutter has a long history of producing high quality industrial tools. Today, the scope of the activity combines a global offering with a widespread local presence

The reason behind this approach is simple: our customers, who include many of the world's largest and most successful manufacturers, want worldwide access to a global portfolio of assembly and manufacturing solutions

With Desoutter, we provide you more than productivity



## DESOUTTER WANTS YOU TO GET THE BEST PRODUCTIVITY AND EFFICIENCY OUT OF YOUR TOOLS

To that end, we can propose to you a wide range of accessories that will take out of your tools the maximum performance.

- **Ergonomic Accessories**

Products specifically designed to help you perform your job more efficiently and safely, such as spring balancers, torque reaction arms, tool holsters etc.

- **Consumables**

We can offer you today a wide range of high quality sockets, bits and adaptors.

- **Air Line Accessories**

Complete range of accessories that will allow to get the maximum performance out of your pneumatic tools. Including FRLs, couplings, nipples, hose reels etc.



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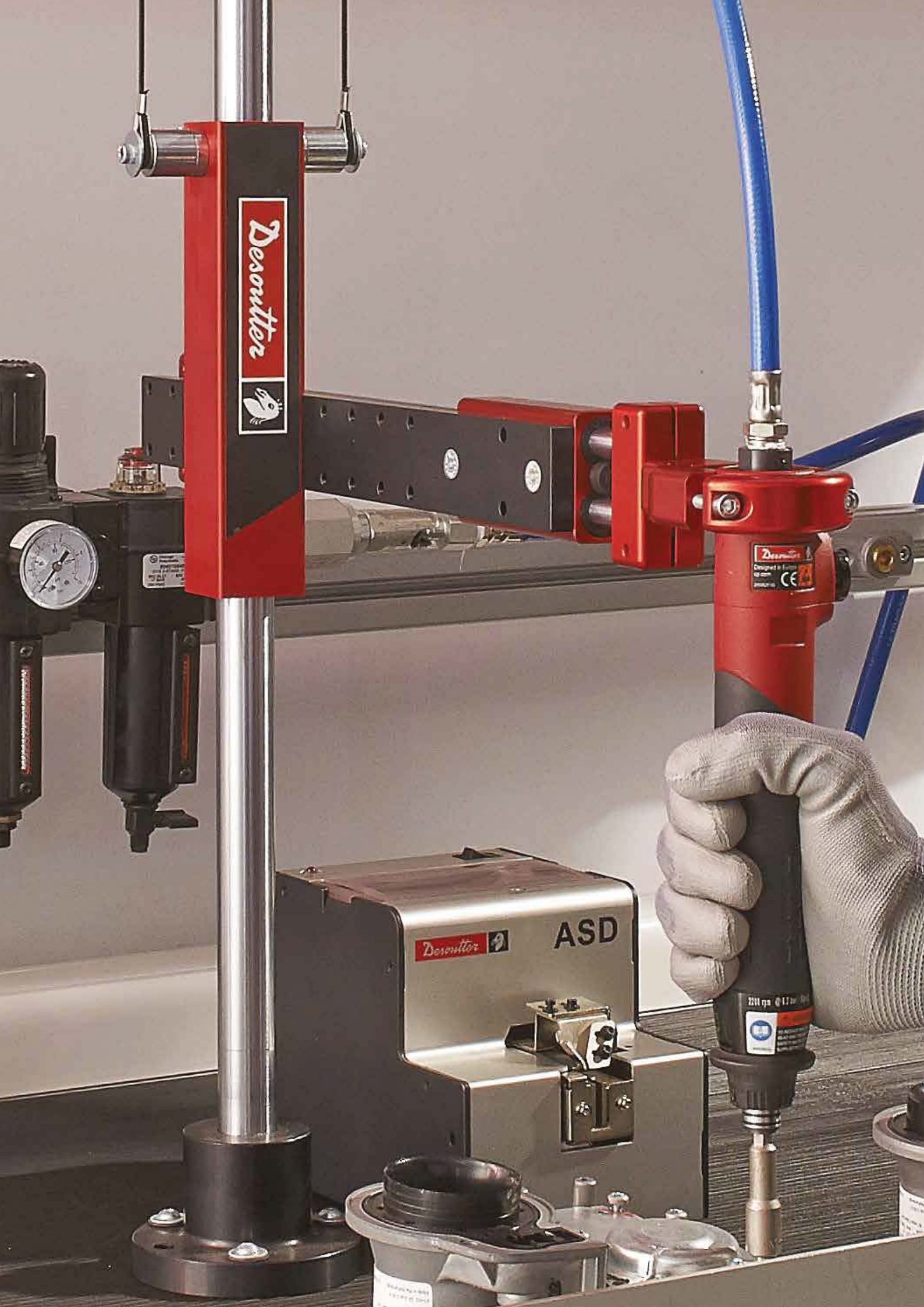
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Desoutter



Desoutter  
Designed in Europe  
CE

Desoutter

ASD

2200 rpm @ 8.7 bar (125 psi)  
1/2" (12.7 mm) diameter  
1/2" (12.7 mm) stroke

# Optimized Workstation

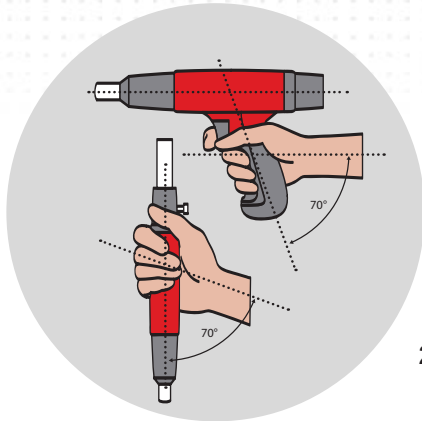


Fig. 1  
Holding tools in  
an ergonomically  
neutral position

Ergonomics deals with the interactions between operators and their work equipment, work environment and work process

Ergonomically designed work systems enhance safety, effectiveness and efficiency, improve human working and living conditions, and counteract adverse effects on human health and performance

Desoutter has been developing products to improve the comfort of use and counter balance some of the below situations:

1. Hand position on the tool: based on application a straight or pistol grip tool is suggested (Fig. 1)
2. Tool position in the workspace: easy to reach and at the right height to minimize the unnecessary movement of the operator (Fig. 2 and 3)
3. Forces exerted: pulling force, torque reaction and the repetitiveness of these forces (Fig. 2 and 3)

The potential benefits of using Desoutter ergonomic accessories together with tools as described in this brochure are:

- Reduce repetitive stress injuries (RSI)
- Reduced operator fatigue
- Greater productivity
- Improved quality
- Reduced handling time
- Greater operator satisfaction
- Lower recruitment costs

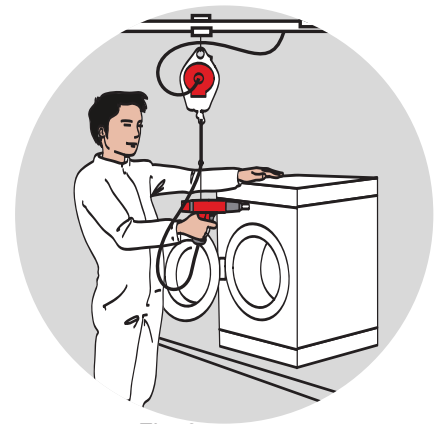


Fig. 2  
Desoutter balancer

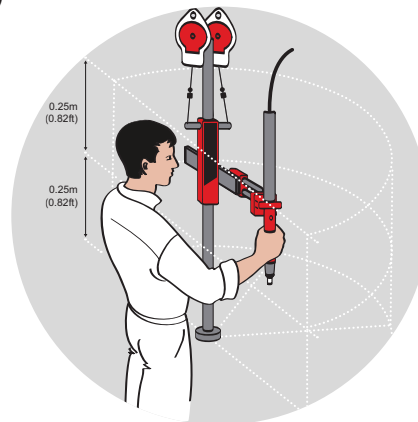
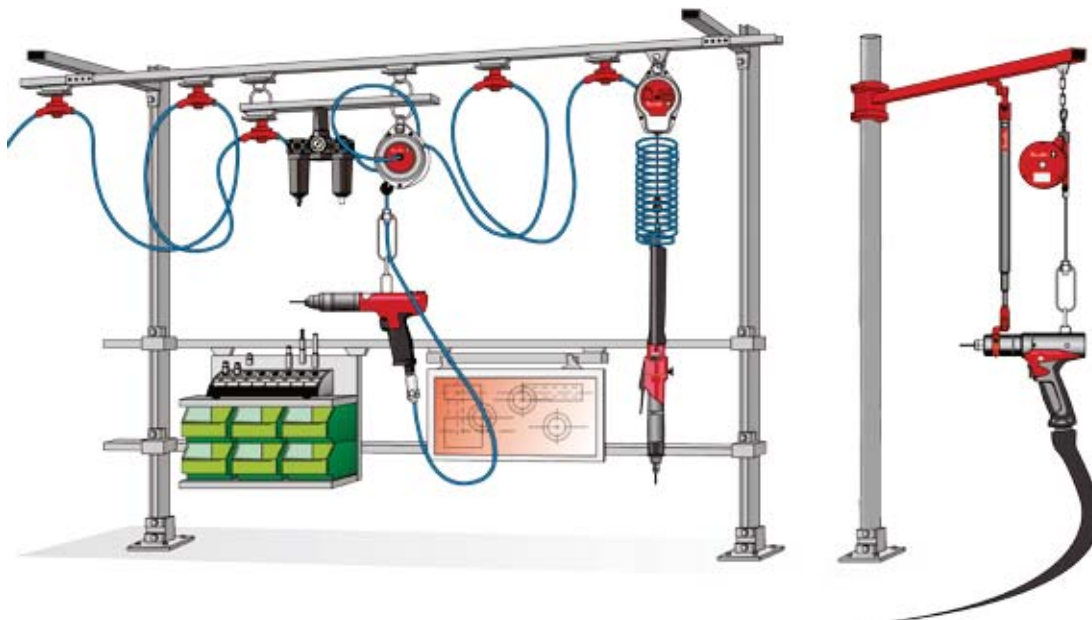
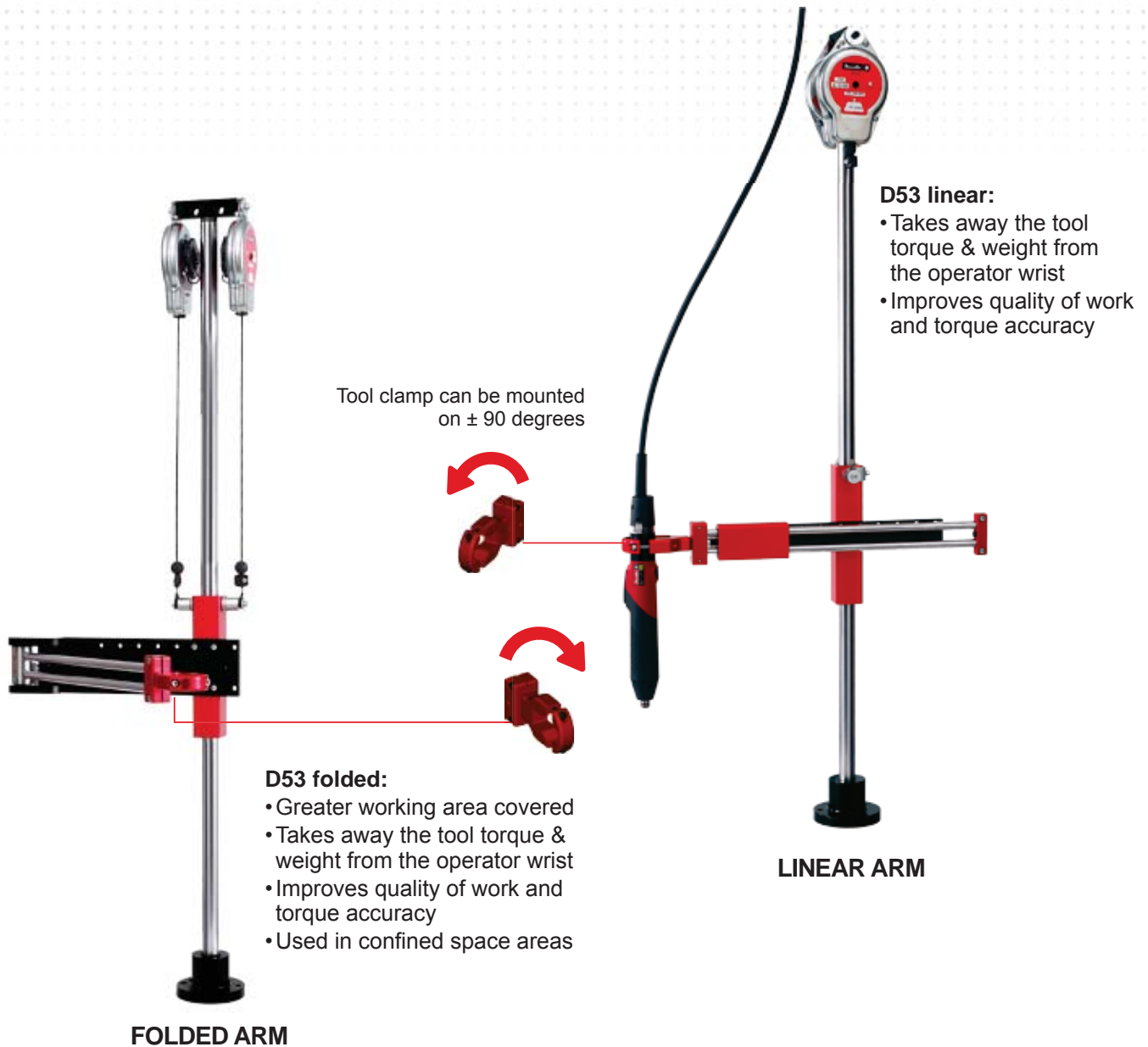


Fig.3  
Desoutter torque  
reaction arm



# Linear and Folded torque reaction arms

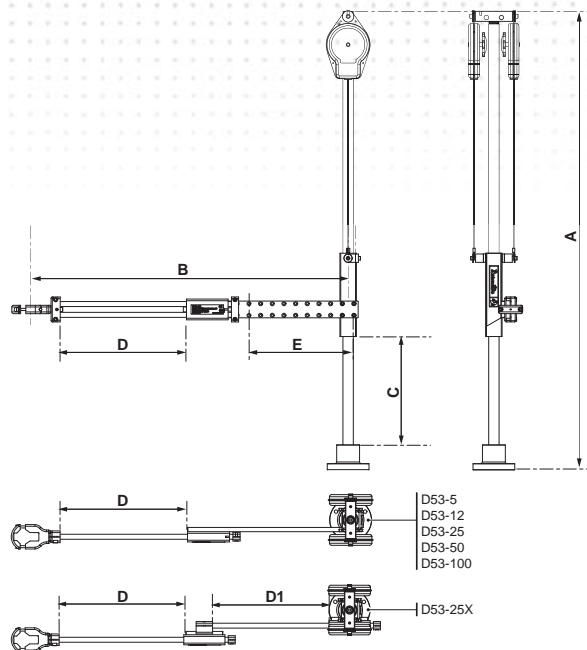
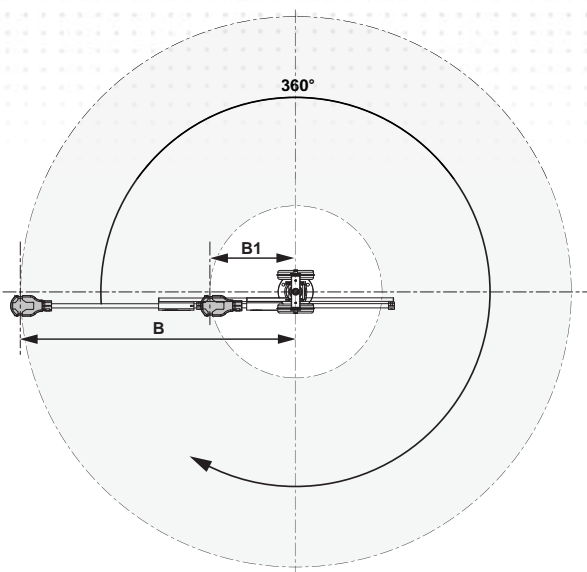


For full tool clamp program, please see details on page 12

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	kg	lb.		mm	in.
<b>LINEAR ARM</b>								
D53-5*	615 810 700 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12*	615 810 701 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25*	615 810 702 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25X Extended reach*	615 810 703 0	25	18.4	2.2	4.8	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50	615 810 704 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100	615 810 705 0	100	73.7	6.0	13.2	2 x 22D		
<b>FOLDED ARM</b>								
D53-5S*	615 810 706 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S*	615 810 707 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S*	615 810 708 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S	615 810 709 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S	615 810 710 0	100	73.7	6.0	13.2	2 x 22D		

(\*) Universal D53 tool clamp included

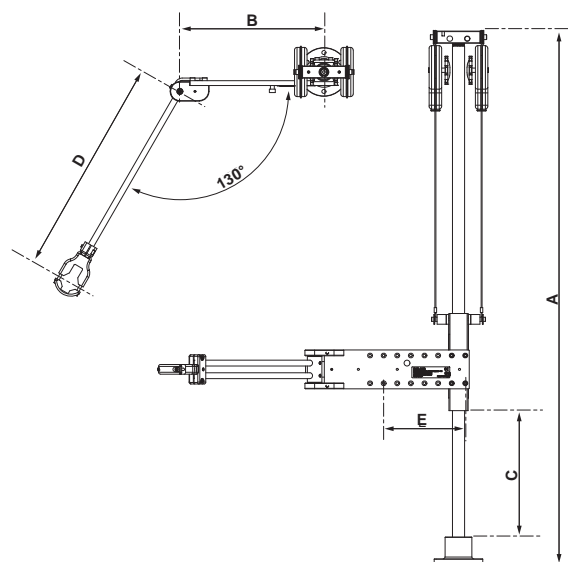
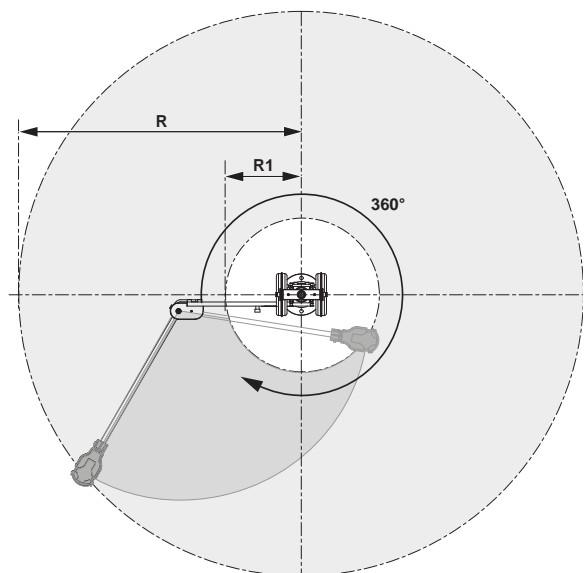
# D53 - Dimensions



## D53 linear working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH				VERTICAL STROKE C		HONRIZONTAL STROKE				FIXED STROKE E		TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	MAXI-B	MINI-B	mm	in	mm	in	mm	in	mm	in	mm	in.	kg	lb
D53- 5	615 810 700 0	5	3.7	732	28.8	592*	23.3*	220*	8.7*	310	12.2	205	8.1	-	168	6.6	0.8	1.76	
D53-12	615 810 701 0	12	8.9	888	35.0	710*	28*	260*	10.2*	465	18.3	255	10.0	-	196	7.7	1.5	3.3	
D53-25	615 810 702 0	25	18.4	1132	44.6	779*	30.7*	231*	9.1*	615	24.2	290	11.4	-	252	9.9	2.5	5.5	
D53-25X	615 810 703 0	25	18.4	1132	44.6	794*	31.2*	230*	9.0*	615	24.2	290	11.4	275	10.8	-	2.2	4.85	
D53-50	615 810 704 0	50	36.9	1147	45.2	888*	35.0*	267**	10.5**	515	20.3	355	14.0	-	266	10.5	5.0	11.0	
D53-100	615 810 705 0	100	73.8	1147	45.2	916*	36.0*	255**	10.0**	515	20.3	395	15.6	-	266	10.5	6.0	13.2	

(\*) With clamp - (\*\*) Without clamp



## D53 folded working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH B		VERTICAL STROKE C		RADIUS D		FIXED STROKE E		RADIUS R		RADIUS R1		TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53- 5S	615 810 706 0	5	3.7	732	28.8	248	9.76	270	10.6	370*	14.6*	168	6.6	546	21.5	140	5.5	0.8	1.76
D53-12S	615 810 707 0	12	8.9	888	35.0	298	11.73	425	16.7	420*	16.5*	168	6.6	639	25.2	146	5.8	1.5	3.3
D53-25S	615 810 708 0	25	18.4	1132	44.6	296	11.65	580	22.8	470*	18.5*	168	6.6	685	27	183	7.2	2.5	5.5
D53-50S	615 810 709 0	50	36.9	1147	45.2	336	1.1	520	20.5	440**	17.3**	228	9.0	698	27.5	154	6.1	5.0	11.0
D53-100S	615 810 710 0	100	73.8	1147	45.2	391	15.4	500	19.7	490**	19.3**	228	9.0	788	31	158	6.2	6.0	13.2

(\*) With clamp - (\*\*) Without clamp

# Linear high torque reaction arms



## D53-150/1000 linear:

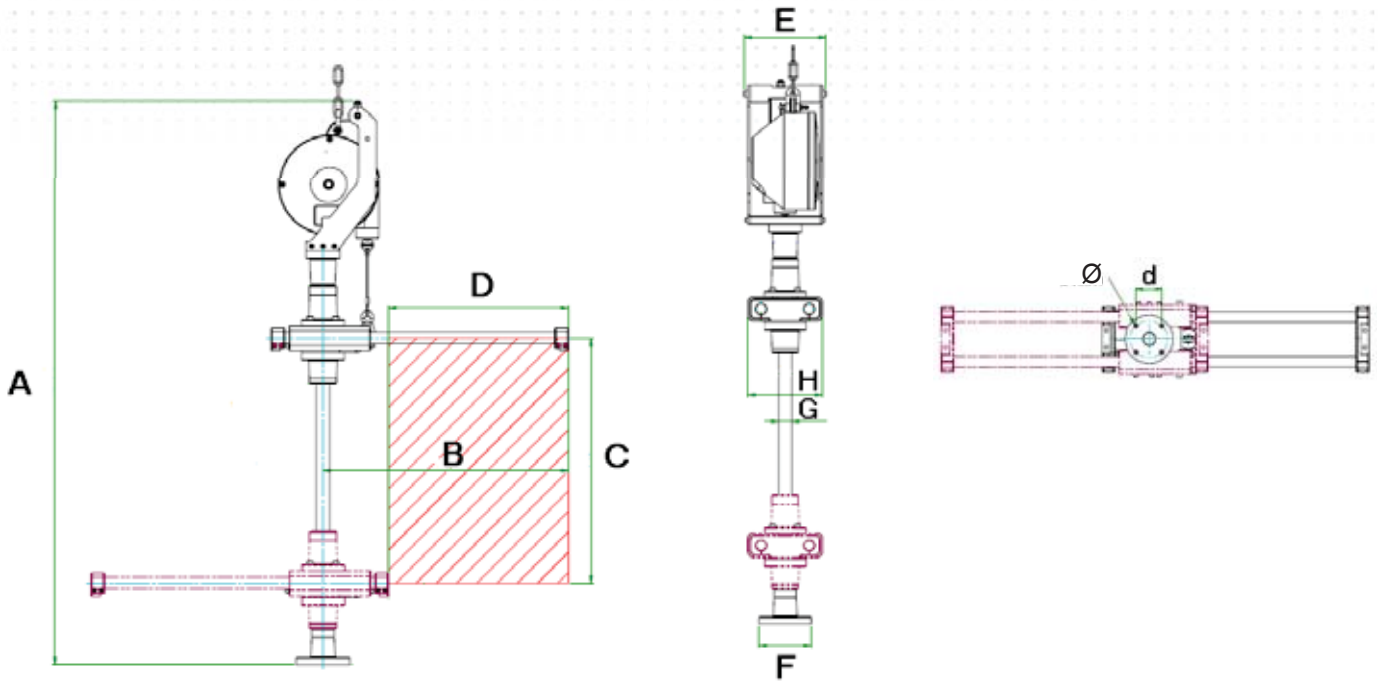
- High torque arms from 150 to 1000Nm (111 to 740 ft.lb)
- Standard and extended versions

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		BALANCER INCLUDED	TOOL CLAMP DIAMETER
		Nm	ft. lb	kg	lb.		
D53-150	615 811 658 0	150	111	7	15.4	1 x 14DF	
D53-150XL	615 811 659 0	150	111	6	13.2	1 x 14DF	
D53-300	615 811 660 0	300	222	14	30.9	1 x 25DF	
D53-300XL	615 811 661 0	300	222	12.5	27.6	1 x 25DF	
D53-500	615 811 662 0	500	370	30	66.2	1 x 45DF	
D53-500XL	615 811 663 0	500	370	27.4	60.4	1 x 45DF	
D53-1000	615 811 664 0	1000	740	21	46.3	1 x 45DF	
D53-1000XL	615 811 665 0	1000	740	17.8	39.3	1 x 45DF	

To order separately  
contact your Desoutter  
representatives



# D53HT - Dimensions



MODEL	PART NUMBER	HEIGHT		WIDTH (WO/CLAMP)				VERTICAL STROKE			
		A		MIN-B		MAX-B		MIN-C		MAX-C	
		mm	in	mm	in	mm	in	mm	in	mm	in
D53-150	615 811 658 0	1049	41.3	240	9.4	600	23.6	154.5	6.1	644	25.4
D53-150XL	615 811 659 0	1159	45.6	240	9.4	840	33.1	154.5	6.1	754	29.7
D53-300	615 811 660 0	1216	47.9	260	10.2	660	26.0	180.0	7.1	720	28.3
D53-300XL	615 811 661 0	1296	51	260	10.2	860	33.9	180.0	7.1	780	30.7
D53-500	615 811 662 0	1346	53	290	11.4	730	28.7	209.5	8.2	815	32.1
D53-500XL	615 811 663 0	1561	61.5	290	11.4	1090	42.9	209.5	8.2	1009	39.7
D53-1000	615 811 664 0	1556	61.3	320	12.6	800	31.5	278.5	11.0	968	38.1
D53-1000XL	615 811 665 0	1691	66.6	320	12.6	1120	44.1	278.5	11.0	1078	42.5

MODEL	HORIZONTAL STROKE									
	D		E		F		G		H	
	mm	in	mm	in	mm	in	mm	in	mm	in
D53-150	360	14.4	170	6.7	90	3.5	25	1.0	150	5.9
D53-150XL	600	24	170	6.7	90	3.5	25	1.0	150	5.9
D53-300	400	16	186	7.3	119	4.7	30	1.2	170	6.7
D53-300XL	600	24	186	7.3	119	4.7	30	1.2	170	6.7
D53-500	440	17.6	180	7.1	119	4.7	40	1.6	170	6.7
D53-500XL	800	32	180	7.1	119	4.7	40	1.6	170	6.7
D53-1000	480	19.2	182	7.2	129	5.1	50	2.0	220	8.7
D53-1000XL	800	32	182	7.2	129	5.1	50	2.0	220	8.7

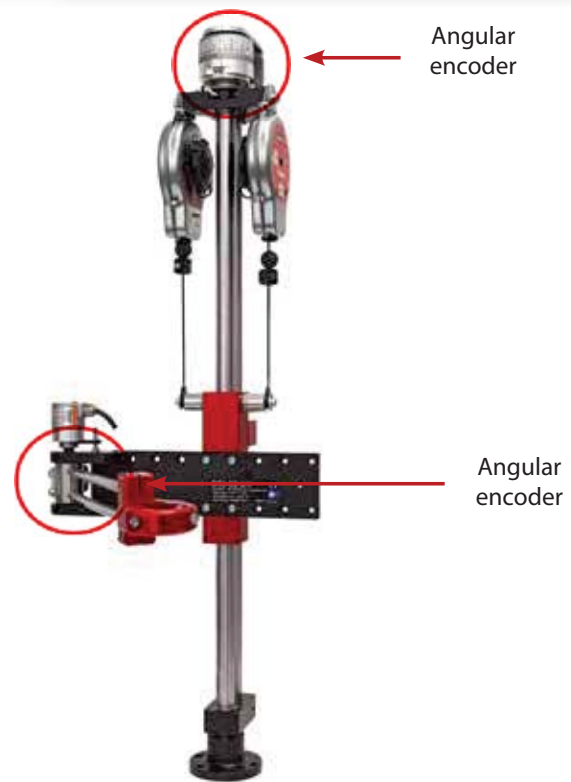
MODEL	d		Ø		ARM WEIGHT	
	mm	in	mm	in	kg	lb
D53-150	50	2.0	11	0.4	12.5	27.6
D53-150XL	50	2.0	11	0.4	13.7	30.2
D53-300	65	2.6	11	0.4	26.7	58.9
D53-300XL	65	2.6	11	0.4	28.2	62.2
D53-500	65	2.6	11	0.4	40.9	90.2
D53-500XL	65	2.6	11	0.4	43.7	96.3
D53-1000	72	2.8	13.5	0.5	57.9	127.7
D53-1000XL	72	2.8	13.5	0.5	61.5	135.7

# D53 X/Y - Positioning arms

- D53 X/Y stands allows to track the tool position during assembly process
- Same tool stand as standard one
- 2 different versions with encoders
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Linear arm : Linear/Angular/Encoders
- Swivel arm : Angular/Angular/Encoders



**LINEAR ARM**



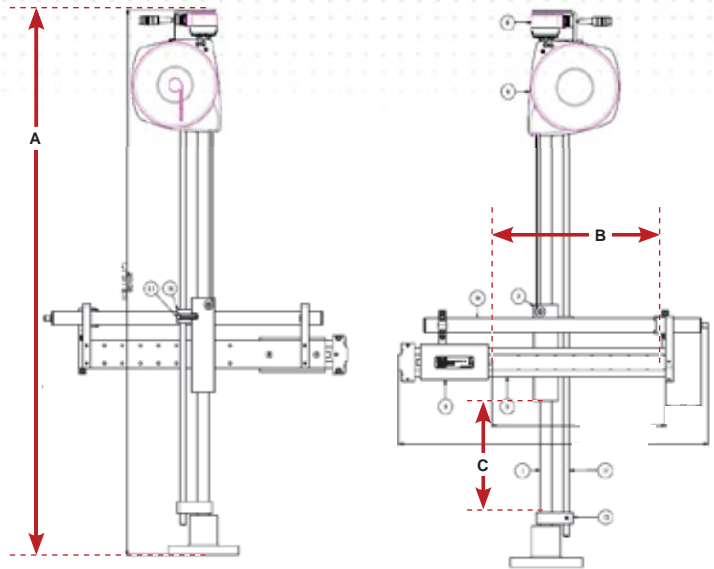
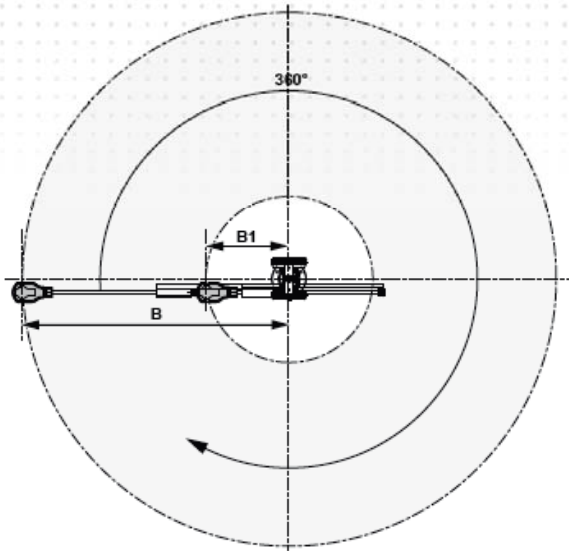
**FOLDED ARM**

For full tool clamp program, please see details on page 12

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)		
		Nm	ft.lb	kg	lb.		mm	in.	
<b>LINEAR ARM</b>									
D53-5 X/Y AXLE*	615 397 874 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62	
D53-12 X/Y AXLE*	615 397 875 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-25 X/Y AXLE*	615 397 876 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-50 X/Y AXLE*	615 397 877 0	50	36.8	5.0	11.0	2 x 15D			
D53-100 X/Y AXLE*	615 397 878 0	100	73.7	6.0	13.2	2 x 22D	To order separately		
<b>FOLDED ARM</b>									
D53-5S X/Y AXLE*	615 397 879 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62	
D53-12S X/Y AXLE*	615 397 880 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-25S X/Y AXLE*	615 397 881 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-50S X/Y AXLE	615 397 882 0	50	36.8	5.0	11.0	2 x 15D			
D53-100S X/Y AXLE	615 397 883 0	100	73.7	6.0	13.2	2 x 22D	To order separately		

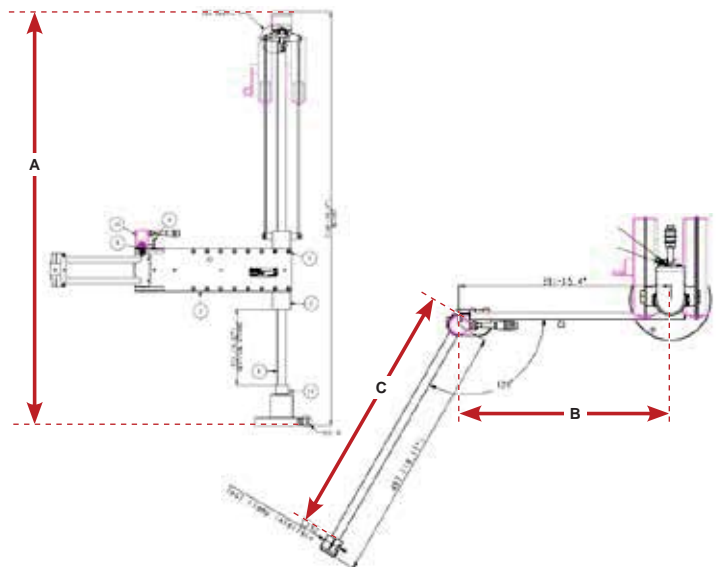
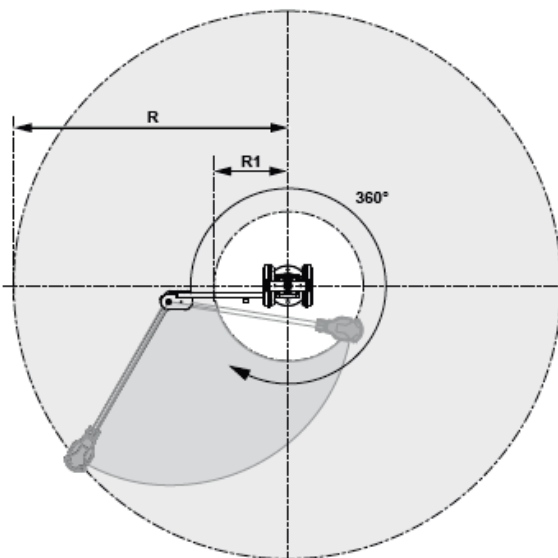
(\*) Universal D53 tool clamp included

# D53 X/Y - Dimensions



## Linear arm

MODEL	PART NUMBER	A		B		C	
		mm	in.	mm	in.	mm	in.
D53-5 X/Y-AXLE	615 397 874 0	789	31.1	206.5	8.1	281	11.1
D53-12 X/Y-AXLE	615 397 875 0	945	37.2	238.5	9.4	436	17.2
D53-25 X/Y-AXLE	615 397 876 0	1189	46.8	291.5	11.5	586	23.1
D53-50 X/Y-AXLE	615 397 877 0	1189	46.8	259.5	10.2	486	19.1
D53-100 X/Y-AXLE	615 397 878 0	1189	46.8	398.5	15.7	486	19.1



## Folded arm

MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 397 879 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 397 880 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 397 881 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S X/Y AXLE	615 397 882 0	1158	45.6	336	13.2	440	17.3	698	27.5	154	6.1
D53-100S X/Y AXLE	615 397 883 0	1158	45.6	391	15.4	490	19.3	788	31	158	6.2

# Tool clamp guide for D53 arms

## Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED		ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM				ADD ADAPTORS IF YOU USE ROTATION CLAMPS	
STEP 1	STEP 2		STEP 3				STEP 4	
TOOL MODEL	D53 MODELS		TOOL CLAMP REFERENCES				COMMENTS	
	Linear arms	Swiveling arms	Universal Clamp	Spline	Vertical 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 1 axe rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	
SB/SBP/SC2/SC/SCP(T) SH70 SLB SLK 011/015/022/031/047 SLC(P) Nose mount ERP 3/5/10/20 ECS/ECD 5	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-55* / D53-125* / D53-255* * Tool clamp included	615 810 835 0 Included (A) 28.5-41mm		615 396 615 0 + 409083 NOT Included To be ordered	615 396 615 0 + 409113 NOT Included To be ordered	615 396 615 0 + 409173 NOT Included To be ordered	SLK 011/015: Adaptor ref 615 225 066 0  SLK 022/031/047: Adaptor ref 438963
SD/SDP/SDT SLK 003/007/010	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-55* / D53-125* / D53-255* * Tool clamp included	615 810 835 0 Included (A) 28.5-41mm		615 396 615 0 + 409093 NOT Included To be ordered	615 396 615 0 + 409123 NOT Included To be ordered	615 396 615 0 + 409183 NOT Included To be ordered	SD Top mount: adaptor ref. 409273 To be ordered with rotation clamps SD Nose mount: 465463 for 320-1470rpm / 465443 for 2200- 3500rpm - SLK 003/007/010: Adaptor ref 615 225 065 0
SLE SLC Top mount	D53-5 / D53-12	D53-55 / D53-125	615 810 838 0 NOT Included To be ordered (A) 40-50 mm		615 396 615 0 + 409093 NOT Included To be ordered	615 396 615 0 + 409123 NOT Included To be ordered	615 396 615 0 + 409183 NOT Included To be ordered	SLE: Nose mount ref 443843 To be ordered with rotation clamps
EAP ECA 15/20/30	D53-5 / D53-12 / D53-25	D53-55 / D53-125 / D53-255	615 810 838 0 NOT Included To be ordered (A) 40-50 mm					
SH 150/200/280/420... ERP 30/40 ERAL 1,5/2	D53-50 / D53-100	/ D53-50S / D53-100S	615 811 029 0 NOT Included To be ordered (B) 26-55 mm					
ERDL 4 ECD 50/70/120 EID 44-1200 - EID 75-900 - EID 65-800	D53-50 / D53-100	D53-50S / D53- 100S		615 810 203 0 NOT Included To be ordered (C)				
ERDL 6	D53-100	D53-100S		615 810 205 0 NOT Included To be ordered (C)				
ERAL 4-90/110/120 ERAL 6-135 ECA 70... 150	D53-100	D53-100S		615 810 628 0 + 615 396 227 0 NOT Included To be ordered (D)				Parts to be welded
EID25-1200 EID 32-900 EDP/ERDL 1.5/2	D53-50	D53-50S		615 810 628 0 + 615 396 551 5 NOT Included To be ordered (D)				Parts to be welded

For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp.

# Tool clamps



A



B



C



D



E

## Specific Clamps

MODEL E	PART NUMBER
SB	615 810 123 0
SC2 / SBP / SCP(T) / SLB / ECS / SLC(P) SDP(T)	615 810 125 0
SD SH70/150/200/280 /420/500	615 810 129 0
SH700/850	615 810 131 0

## D53 Tool positioning

### D53 tool position

Straight tool



Pistol grip tool



Angle nutrunner



# TRA - Telescopic reaction arms

## Telescopic carbon arm: Ideal for busy workspace!

- From 12 up to 200 Nm (8.9 up to 148 ft.lb) torque capacity
- Several lengths available
- 90 degrees tool clamp interface for straight or pistol grip tools
- Limited tool clamp angle rotation to avoid side forces in the operator arm ( $\omega$ ) (Fig 1)

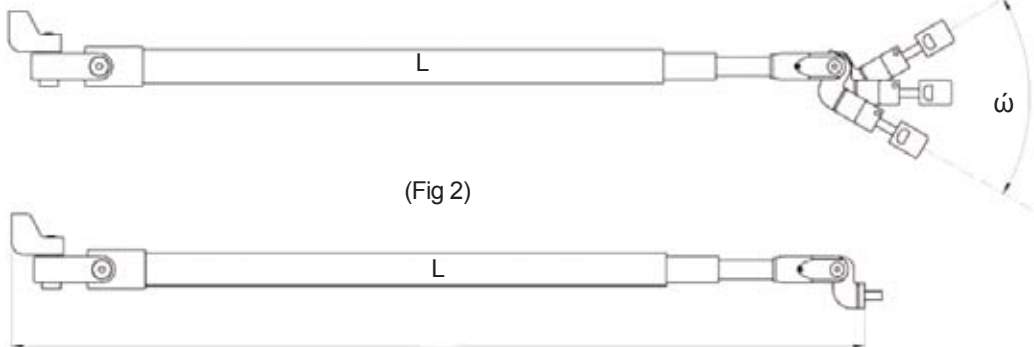
### Benefits:

- Extremely lightweight carbon made torque arm for improved comfort of use
- Flexible solution



(Fig 1)

Need to order a balancer separately see page 23



(Fig 2)



\*\*Universal balancer adapter

MODEL	PART NUMBER	MAXIMUM TORQUE		MAX. MIN LENGTH		$\omega$ (deg)	WEIGHT		TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)		
		Nm	ft. lb	mm	L		in.	kg	lb	mm	in.
TRA12 1150*	615 810 089 0	12	8.9	516-1128		20-44	170	0.46	1.01	28-49	1.10-1.92
TRA12 1600*	615 810 090 0	12	8.9	666-1578		26-62	170	0.51	1.12	28-49	1.10-1.92
TRA12 2100*	615 810 091 0	12	8.9	835-2083		32-82	170	0.57	1.26	28-49	1.10-1.92
TRA25 1150*	615 810 092 0	25	18.4	524-1124		20-44	170	0.60	1.32	28-49	1.10-1.92
TRA25 1600*	615 810 093 0	25	18.4	674-1574		26-62	170	0.70	1.54	28-49	1.10-1.92
TRA25 2100*	615 810 094 0	25	18.4	841-2075		33-82	170	0.77	1.70	28-49	1.10-1.92
TRA25 2600*	615 810 095 0	25	18.4	1007-2573		39-101	170	0.86	1.89	28-49	1.10-1.92
TRA50 1600*	615 810 096 0	50	36.9	712-1624		28-64	40	1.14	2.51	28-50	1.10-1.97
TRA50 2100*	615 810 097 0	50	36.9	878-2125		34-84	40	1.24	2.73	28-50	1.10-1.97
TRA50 2600*	615 810 098 0	50	36.9	1045-2626		41-103	40	1.34	2.95	28-50	1.10-1.97
TRA100 1600	615 810 099 0	100	73.8	722-1628		28-64	30	1.47	3.24		
TRA100 2100	615 810 100 0	100	73.8	889-2129		35-83	30	1.41	3.11		
TRA100 2600	615 810 101 0	100	73.8	1056-2630		41-103	30	1.53	3.37		
TRA200 1600	615 810 102 0	200	148	726-1628		28-64	20	1.98	4.36		
TRA200 2100	615 810 103 0	200	148	893-2129		35-84	20	2.18	4.80		
TRA200 2600	615 810 104 0	200	148	1060-2630		41-103	20	2.39	5.27		

To order separately (see page 16)

(\*) Universal TRA tool clamp included (\*\*) Universal balancer adapters: 1 kit = 7 parts for all Desoutter balancer types: Part No. 615 397 922 5

# TRA - Positioning telescopic arms

## TRA with positioning system allows to track the tool position during the assembly process

Same telescopic arm as the standard one: from 12 to 200 Nm (8.9 to 148 ft.lb) torque capacity

### 2 different versions:

- 1 encoder: length measurement
- 2 encoders: length measurement + angle control
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Accuracy: +/- 5mm



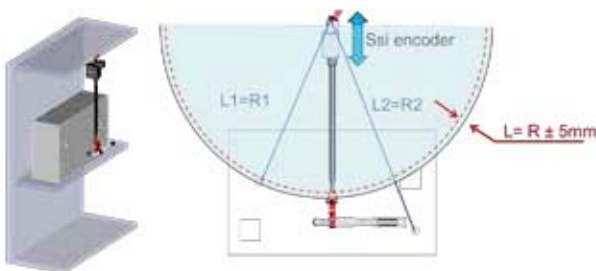
Need to order a balancer separately  
See page 22



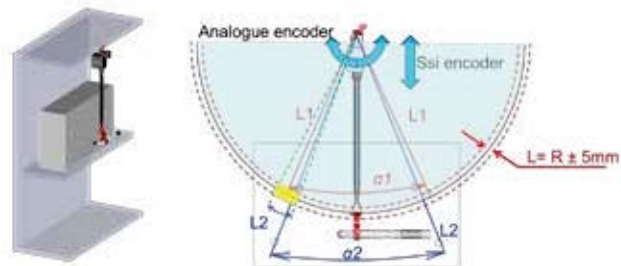
\*\*Universal balancer adapter



1 encoder system



2 encoders system













MODEL	PART NUMBER	NUMBER OF ENCODER	MAXIMUM TORQUE		MAX. MIN. LENGTH		TOOL CLAMP DIAMETER	
			Nm	ft.lb	mm	in.	mm	in.
TRA 12 1600 UNI P *	615 811 694 0	1	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P *	615 811 670 0	1	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P *	615 811 676 0	1	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P	615 811 682 0	1	100	73.7	2315	91	To be ordered separately (page16)	
TRA 200 2100 P	615 811 688 0	1	200	147.4	2317	91	To be ordered separately (page16)	
TRA 12 1600 UNI P2 *	615 811 695 0	2	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P2 *	615 811 671 0	2	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P2 *	615 811 677 0	2	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P2	615 811 683 0	2	100	73.7	2315	91	To be ordered separately (page16)	
TRA 200 2100 P2	615 811 689 0	2	200	147.4	2317	91	To be ordered separately (page16)	

(\*) Universal TRA tool clamp included

(\*\*) Universal balancer adapters: 1 kit = 7 parts for all Desoutter balancer types. Part Nr. 615 397 922 5

# Tool clamps guide for TRA

## Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED	ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM	ADD ADAPTORS IF NEEDED		
STEP 1	STEP 2	STEP 3		STEP 4	
TOOL MODEL	TRA MODEL	TOOL CLAMP REFERENCE	DESCRIPTION	COMMENTS	
SB/SBP - SC2/SCP/SCPT SD/SDP/SDT SH 70/150/200/280 SLE - SLK 003/007/010 SLK 011/015 SLK 022/031/047 - SLE - ECS SLC/SLCP - ERP 3/5/10/20 ECA 15/20 - ECD 5	TRA12* / 25 * * Clamp included with the arm	615 810 118 0 Included with the arm	Universal Clamp 28 - 49mm (1.1 - 1.92 inch)	SLK Adaptor ref 615 225 065 0 - To be ordered SLK Adaptor ref 615 225 066 0 - To be ordered SLK Adaptor ref 438963 - To be ordered	
SH 420/500 - ERP 30/40 - EAP ERDL 1.5/2 - ERAL 1.5/2 ERAL 4-90 - ECA 30/40/60/70/90	TRA50* / 100 * Clamp included with the arm	615 810 137 0 Included with TRA50. To be ordered for TRA100	Universal Clamp 28 - 50mm (1.1 - 1.97 inch)		
SH 700/850	TRA 100	615 811 363 0 NOT Included with the arm To be ordered	Special clamp		
EAD 50-900	TRA 100	615 811 129 0 NOT Included with the arm To be ordered	Special clamp		
EAD 70-800	TRA 100	615 811 130 0 NOT Included with the arm To be ordered	Special clamp		
EAD 80-650	TRA 100	615 811 131 0 NOT Included with the arm To be ordered	Special clamp		
EAD 105-500	TRA 200	615 811 132 0 NOT Included with the arm To be ordered	Special clamp		
ERDL 4 - 60/80/135 ECD 50/70/120 EID 44/65/75	TRA 100 TRA 200	615 810 203 0 for TRA100 615 810 202 0 for TRA200 NOT Included with the arm To be ordered	Spline G1 D40,5		
ERDL 6 - 170/220/250	TRA 200	615 810 204 0 NOT Included with the arm To be ordered	Spline G1 D50		
EDP EID 25/32	TRA 50	615 810 628 0 + 615 396 551 5 NOT Included with the arm To be ordered	Clamp to be welded		
ECD 20/30	TRA 50	615 810 628 0 + 615 396 191 0 NOT Included with the arm To be ordered	Clamp to be welded		
ERAL 4 - 110/120/140/170 ECA 115/125/150	TRA 200	615 810 631 0 + 615 396 227 0 NOT Included with the arm To be ordered	Clamp to be welded		
ERAL 4 - 225 ECA 200	TRA 200	615 810 631 0 + 615 396 230 0 NOT Included with the arm To be ordered	Clamp to be welded		

For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp



# TRA - Tool positionning

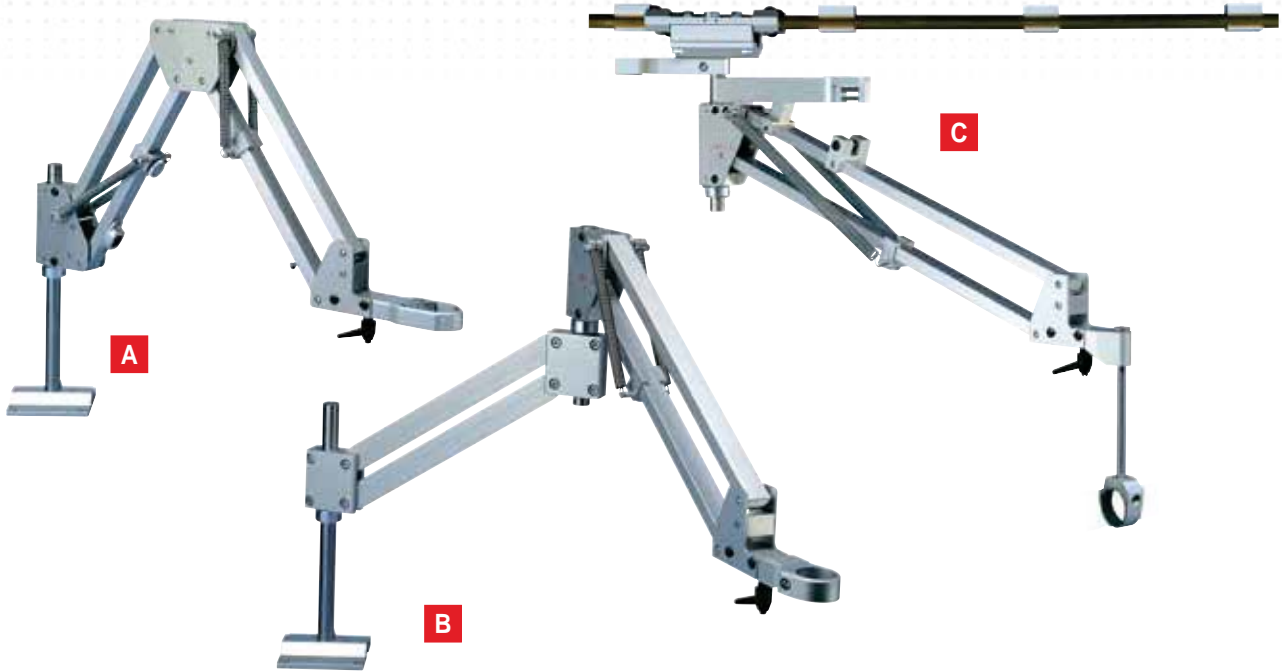


## OPTIONAL ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER
A	Bench stand Ø 32mm (1.26") - H 753mm (29.64")	615 810 194 0
B	Bench stand holder Ø 32mm (1.26") for TRA 12/25	615 810 121 0
B	Bench stand holder Ø 32mm (1.26") for TRA 50/100	615 810 140 0
C	Universal balancer adapter	615 397 922 5

# Balancing arms

## D57, D58, D59

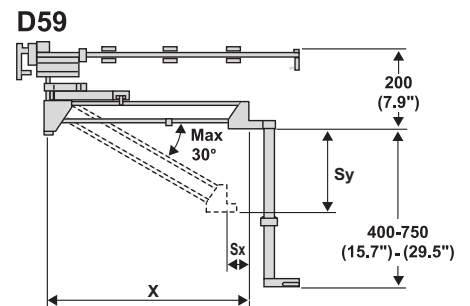
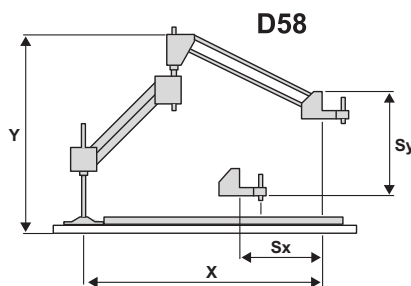
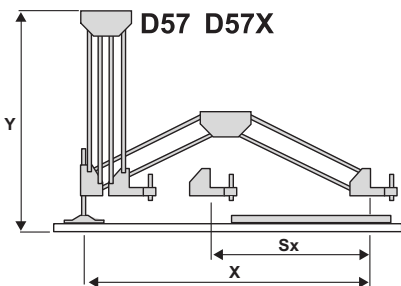
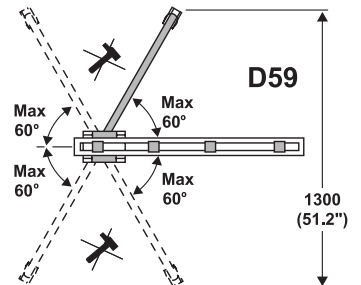


### D57/D57X/D58 How To Order

1. Basic Stand
2. Tool Holder
3. Optional Accessories

### D59 How To Order

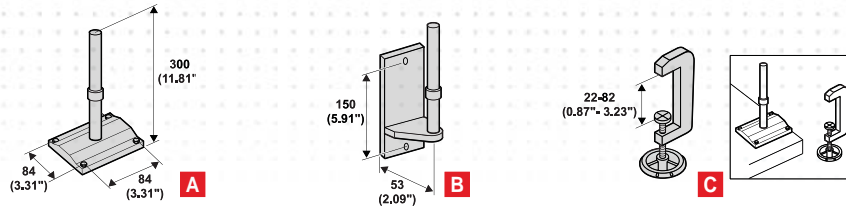
1. Basic Stand
2. Tool Holder
3. Rail (supplied per meter,  
e.g. for 3m order (3) of PN. 409213)
4. Rail End Stops  
(2 required per complete rail)
5. Optional Accessories



### D57 / 58 / 59 BALANCING ARMS

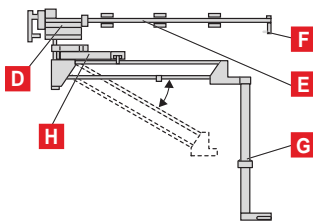
PIC REF.	MODEL	PART NUMBER	MAXIMUM TORQUE		OVERALL HORIZONTAL (X)		OVERALL VERTICAL (Y)		STROKE HORIZONTAL (Sx)		STROKE VERTICAL (Sy)		TOOL WEIGHT CAPACITY		ACCESSORIES INCLUDED
			N.m	ft.lb	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
A	D57	408903	20	14.75	700	25.55	550	21.6	510	20.7	95	3.74	2	4.4	BENCH MOUNT
A	D57X	408913	20	14.75	850	33.46	550	21.6	610	24.0	95	3.74	2	4.4	BENCH MOUNT
B	D58	408923	20	14.75	710	27.95	600	23.6	600	23.6	180	7.08	2	4.4	BENCH MOUNT
C	D59	408933	20	14.75	650	25.60	200	7.87	70	2.75	250	9.84	2	4.4	RAIL CARRIAGE

# Tool clamps



## ACCESSORIES

ITEM	PART NO.	DESCRIPTION	D57 / D57X	D58	D59
A	408953	Bench Mount (Included with the stand)	X	X	
B	408963	Wall Mount Bracket	X	X	
C	408973	Table Stand Clamp	X	X	
•	408993	Heavy Duty Spring 1 - 2,5 kg	X		
D	409253	Rail Carriage (Included with the stand)			X
E	409213	Rail Per Meter			X
F	409223	Rail End Stops			X
G	409203	Telescopic Height Adjustments			X
H	409233	Top Arrestor / Vertical Lock			X
H	409243	Side Arrestor / Horizontal Lock			X



must also order top arrestor when using side arrestor

D57/58/59 TOOL CLAMPS	Ø28.5-41mm	Ø40-50mm	Vertical 2 Axis Rotation	Horizontal Single Axis Rotation	Horizontal 2 Axis Rotation	Adaptor Sleeve Blank (supplied as standard with tool holders) to be machined to suit the tool
PART NO.	615 396 6140	615 396 6290	409083 Ø36mm (1.42) 409093 Ø46mm (1.8) 409103 Ø56mm (2.2)	409113 Ø36mm (1.42) 409123 Ø46mm (1.8) 409133 Ø56mm (2.2)	409173 Ø36mm (1.42) 409183 Ø46mm (1.8) 409193 Ø56mm (2.2)	409273 Ø46mm (1.8) (outside) Ø30mm (1.18) (inside) 409023 Ø56mm (2.2) (outside) Ø40mm (1.57) (inside)
<b>Pneumatic Screwdrivers</b>						
SB / SBP	X		409083	409113	409173	
SC2 / SCP / SCPT	X		409083	409113	409173	
SD / SDP	X		409093	409123	409183	Ring adaptor PN 409273 for SD
SH70 / SH150	X		409093	409123	409183	
<b>Electric Screwdrivers</b>						
SLK 003/007/010	X		409093	409123	409183	SLK adaptor PN 615 225 0650
SLB	X		409093	409123	409183	Ring adaptor PN 409273
SLK 011/015	X		409083	409113	409173	SLK adaptor PN 615 225 0660
SLK 022/031/047	X		409083	409113	409173	SLK adaptor PN 438963
SLC (nose mount)	X		409083	409113	409173	
SLC (top mount)			409093	409123	409183	
SLE		X	409093	409123	409183	Ring adaptor PN 409273
ECS	X		409083	409113	409173	
ECD5	X		409083	409113	409173	
ERD5	X		409083	409113	409173	
<b>Drills</b>						
DR 300	X		409083	409113	409173	
DR 350				409113	409173	
DR 750				409123	409183	Ring adaptor PN 409273

# Bench tidy kit & Bench mounted swinging arm

- Two complete Bench Tidy Kits to suit 2m and 2.5m bench widths with flexibility of mounting in height and spacing of upright supports
- Everything included to set up a simple system within minutes, which can be enhanced with the accessories shown on the accessories page, adding to the versatility
- Supplied in 2 packs, needing only 10/13/17mm A/F wrenches and standard screwdrivers to assemble

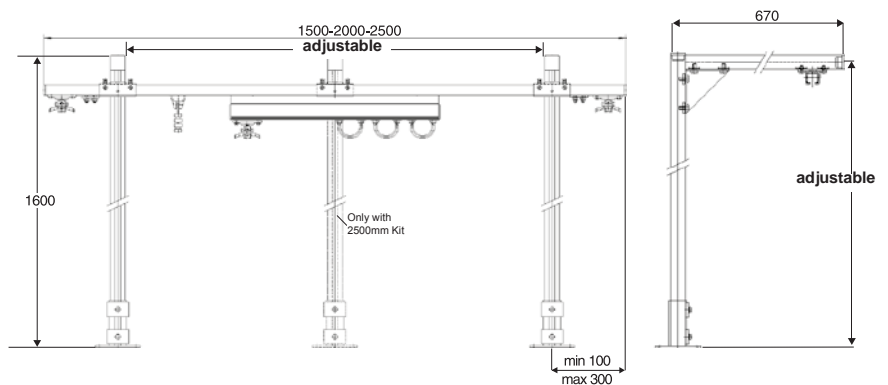


## COMPLETE BENCH TIDY KIT - READY TO ASSEMBLE

Each kit consist of:

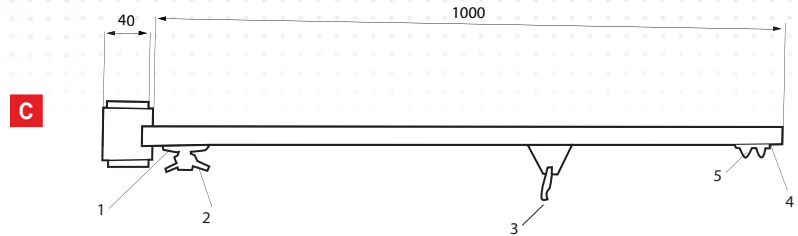
- Tool Suspension Track of specified length
- Hose trolley
- Horizontal outrigger arms
- Hose clamp
- Vertical C-rail uprights with base for benchtop mounting (2 uprights with 2m kit, 3 with 2.5m kits)
- All necessary brackets, fittings and end stops/clamps
- Simple, step by step assembly instructions
- Tool Suspension trolley with 3 suspension rings and hoseclamp

## EXAMPLE OF INSTALLATION



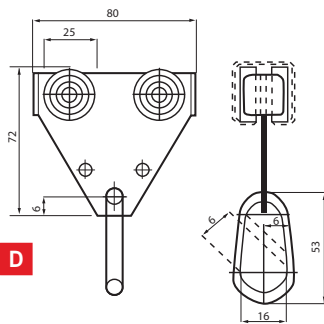
PIC REF	PART NUMBER	LENGTH OF SUSPENSION TRACK		HEIGHT		HORIZONTAL STROKE		WEIGHT LOAD		
		mm	in.	mm	in.	mm	in.	kg	lb	
<b>BENCH TIDY</b>										
A	111682	2000	78.7	1600	63	-	-	24	53.0	
A	111692	2500	98.4	1600	63	-	-	26	57.0	
<b>BENCH MOUNTED SWINGING ARM</b>										
B	66542			1600	63	630	24.8	10	22.0	

# Accessories



## Bench Mounted Swinging arm

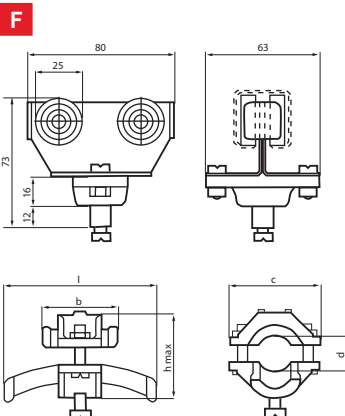
OPTIONAL ACCESSORIES	
ITEM	PART NO.
Swivel Arm	
<b>C</b> Suitable for suspending equipment Max. load at 1000mm = 16kg Weight: 3kg Supplied complete with:	<b>66462</b>
<b>1</b> End Clamp	<b>66332</b>
<b>2</b> Hose Clip	<b>66292</b>
<b>3</b> Suspension Trolley	<b>66352</b>
<b>4</b> End Cap	<b>66372</b>
<b>5</b> End Stop	<b>66422</b>



**D**



**E**



**F**

## Bench Tidy

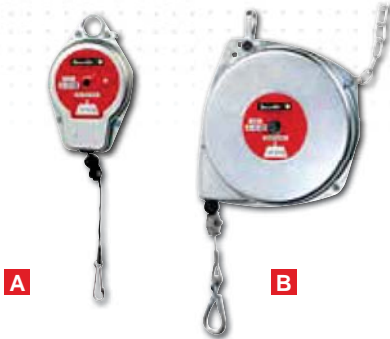
OPTIONAL ACCESSORIES	
ITEM	PART NO.
Suspension Trolley	
<b>D</b> Suspension trolley Use for suspending tool balancers, or coiled hoses To run in 32 x 30 'C' Rail Track Weight: 0.3kg Max. load: 20kg Materials: Chassis: Galvanised steel, plastic / Axles: Galvanised steel / Spring safety hook: Galvanised steel	<b>66352</b>
Hose Trolley	
<b>E</b> Hose Trolley Used in conjunction with Hose Clip to run in 32 x 30 'C' Rail Track Weight: 0.26kg Max. load: 20kg Materials: Bearing part: Steel plate, plastic covered / Rollers (ball bearings): Galvanised steel Ball & Socket Joint: Nylon / Small parts: Galvanised steel	<b>66282</b>

## Hose Clip

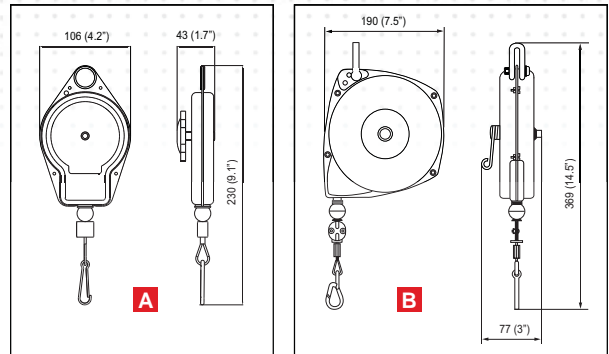
<b>F</b> Hose Clip Used to support coils of air hose or electric cable	
---------------------------------------------------------------------------	--

d		r		l		h max		b		c		b		PART NO.
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
10-16	0.39-0.63	80	3.15	70	2.75	38	1.50	35	1.38	42	1.65	0.04	0.09	<b>66292</b>
17-25	0.67-0.98	125	4.92	100	3.94	47	1.85	50	1.97	50	1.97	0.06	0.13	<b>66302</b>
26-36	1.02-1.42	180	7.08	140	5.51	58	2.58	70	2.75	64	2.52	0.12	0.30	<b>66322</b>

# Balancers 6 D, HU & R Series



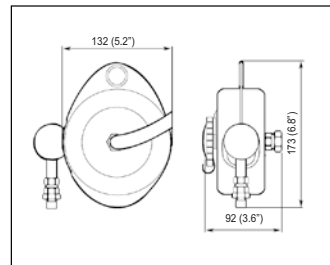
- Steel housing
- Nylon (pic A)  
Steel (pic B) cable
- Additional support chain included
- 10S / 15S / 22S with drum lock feature: operates only on spring failure



## BALANCERS - 1DU - 22S

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb				
A	1DU	52542	0	0	0.5	1.1	1.5	4.9	0.6	1.3
	2DU	50522	0.5	1.1	1.0	2.2	1.5	4.9	0.6	1.3
	2DUS	54532	0.5	1.1	1.0	2.2	3.0	9.8	0.6	1.3
	3DU	52862	1.0	2.2	1.5	3.3	1.5	4.9	0.6	1.3
	4DU	50532	1.0	2.2	2.0	4.4	1.5	4.9	0.6	1.3
	5DU	50542	1.4	3.1	2.4	5.3	1.5	4.9	0.6	1.3
B	10D	50052	2.5	5.5	5.0	11.0	2.4	7.8	2.7	6.0
	15D	50062	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22D	50072	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1
	10S*	50572	2.0	4.4	5.0	11.0	2.4	7.8	2.7	6.0
	15S*	50582	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22S*	50592	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1

\* Balancers with drum lock features



- Steel housing
- Additional support chain included
- Polyurethane hose
- 1/4" thread

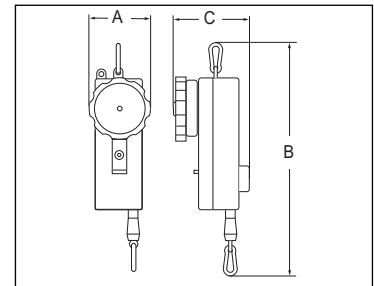
## HOSE BALANCERS - 1HU - 4HU

MODEL	PART NUMBER	LOAD RANGE				HOSE TRAVEL		HOSE ID		WEIGHT	
		MIN. CAPACITY		MAX. CAPACITY		m	ft	mm	in.	kg	lb
		kg	lb	kg	lb						
1HU	52552	0	0	0.5	1.1	1.5	4.9	6.5	1/4	1.2	2.6
3HU	50552	0.5	1.1	1.4	3.1	1.0	3.3	6.5	1/4	1.2	2.6
4HU	50562	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3
4HU-X*	205 148 128 4	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3

Flow rate: 7.1 l/s (15cfm) - \*L= 0.5



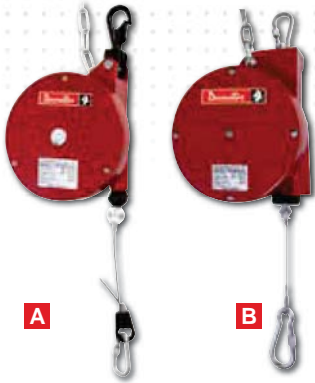
- Reaction free: holds the load weightless throughout the entire cable length
- Plastic housing & nylon cable: 2R, 4R
- Steel housing & steel cable: 5R, 10R
- Cable locks in the event of spring failure



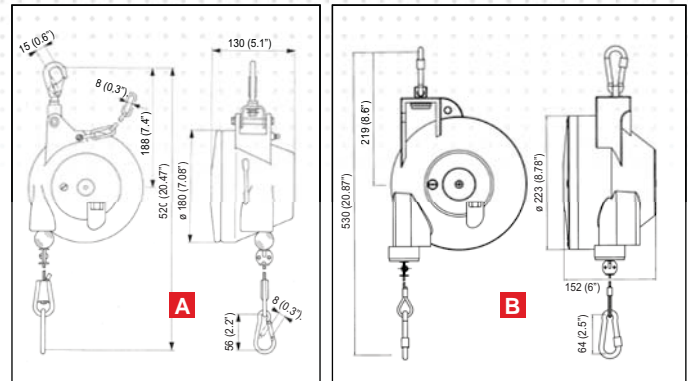
## BALANCERS - REACTION FREE SELF-LOCK - 2R - 10R

MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT		DIMENSIONS					
		MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb	A		B		C	
		kg	lb	kg	lb					mm	in.	mm	in.	mm	in.
2R	54422	0.7	1.5	1.3	2.9	1.7	5.5	0.5	1.1	72	2.8	245	9.6	108	4.3
4R	54432	1.0	2.2	2.0	4.4	1.7	5.5	0.5	1.1	72	2.8	245	9.6	108	4.3
5R	54442	1.7	3.7	3.5	7.7	2.4	7.8	2.3	5.1	116	4.6	427	16.8	155	6.1
10R	54452	3.0	6.6	6.0	13.2	2.4	7.8	2.3	5.1	116	4.6	427	16.8	155	6.1

# Balancers - DF & DFL Series



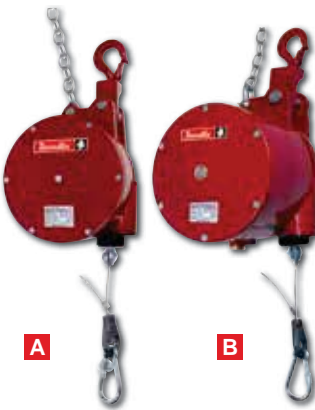
- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant plastic and aluminum housing
- 360° swiveling safety hook for isolated suspension
- Screw-type safety hook for load suspension
- Standard safety chain
- Spring fracture safeguard, integrated drum lock



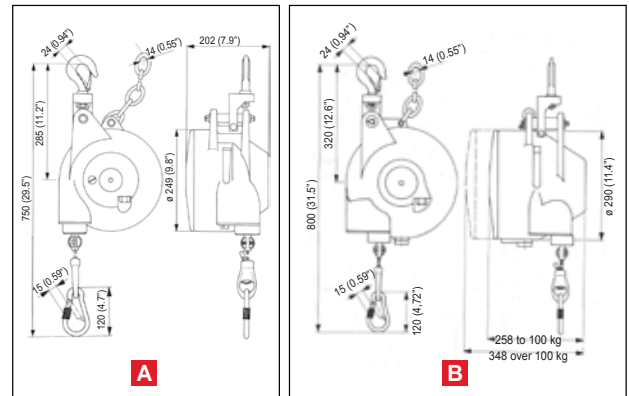
## BALANCERS - 5DF - 55 DF

PIC REF	MODEL	PART NUMBER	LOAD RANGE		CABLE TRAVEL		WEIGHT			
			MIN. CAPACITY	MAX. CAPACITY	m	ft	kg	lb		
A	5DF	615 805 011 0	3.0	6.6	5.0	11.0	2.0	6.6	2.9	6.4
	7DF	615 805 012 0	4.5	9.9	7.0	15.4	2.0	6.6	3.1	6.8
	10DF	615 805 013 0	6.0	13.2	10.0	22.0	2.0	6.6	3.2	7.1
	14DF	615 805 014 0	9.0	19.8	14.0	30.9	2.0	6.6	3.4	7.5
	17DF	615 805 015 0	13.0	28.7	17.0	37.5	2.0	6.6	3.6	7.9
	21DF	615 805 016 0	16.0	35.3	21.0	46.3	2.0	6.6	3.8	8.4
B	25DF	615 805 017 0	15.0	33.1	25.0	55.1	2.0	6.6	7.8	17.2
	35DF	615 805 018 0	25.0	55.1	35.0	77.2	2.0	6.6	8.9	16.6
	45DF	615 805 019 0	35.0	77.2	45.0	99.2	2.0	6.6	9.5	20.9
	55DF	615 805 020 0	45.0	99.2	55.0	121.2	2.0	6.6	9.7	21.4

A Plastic housing B Aluminum housing



- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant aluminum housing
- 360° swiveling safety hook
- Cable extension limit stop for overload protection
- Screw-type safety hook for load suspension
- Standard safety chain
- Standard spring fracture safeguard integrated drum lock
- Ferrule for securing cable end
- Freewheel device for protection against handling errors



## BALANCERS - 20DFL - 200DFL

PIC REF	MODEL	PART NUMBER	LOAD RANGE		CABLE TRAVEL		WEIGHT			
			MIN. CAPACITY	MAX. CAPACITY	m	ft	kg	lb		
A	20DFL	615 805 021 0	12	26.5	20	44.1	2.0	6.6	14.8	32.6
	30DFL	615 805 022 0	20	44.1	30	66.1	2.0	6.6	15.2	33.5
	45DFL	615 805 023 0	30	66.1	45	99.2	2.0	6.6	16.9	37.2
	60DFL	615 805 024 0	45	99.2	60	132.3	2.0	6.6	17.3	38.1
	75DFL	615 805 025 0	60	132.3	75	165.3	2.0	6.6	18.7	41.2
	90DFL	615 805 026 0	75	165.3	90	198.4	2.0	6.6	19.7	43.4
	100DFL	615 805 027 0	90	198.4	100	220.4	2.0	6.6	20.9	46.1
	115DFL	615 805 028 0	100	220.4	115	253.5	3.0	9.8	41.8	92.1
	130DFL	615 805 029 0	115	253.5	130	286.6	3.0	9.8	43.2	95.2
	140DFL	615 805 030 0	130	286.6	140	308.6	3.0	9.8	44.6	98.3
B	150DFL	615 805 031 0	140	308.6	150	330.7	3.0	9.8	46.0	101.4
	170DFL	615 805 032 0	150	330.7	170	374.8	3.0	9.8	46.4	102.3
	180DFL	615 805 033 0	170	374.8	180	396.8	3.0	9.8	46.7	102.9
	190DFL	615 805 034 0	180	396.8	190	418.9	3.0	9.8	47.0	103.6
	200DFL	615 805 035 0	190	418.9	200	440.9	3.0	9.8	47.3	104.2

# Tool holsters

## Desoutter Tool Holster - DTH42

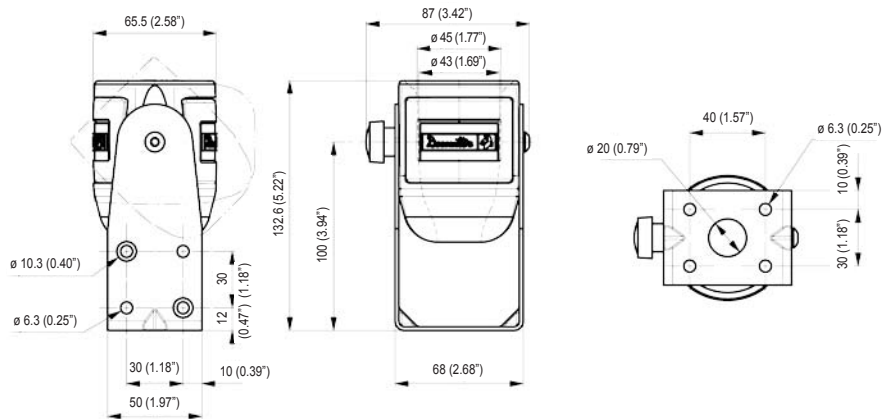


- Adapted for all **straight or pistol grip tools** with an outside diameter of maximum 42 mm
- The mounting plate can be fastened in **several positions** and the plastic ring angle can be set at **different angles**

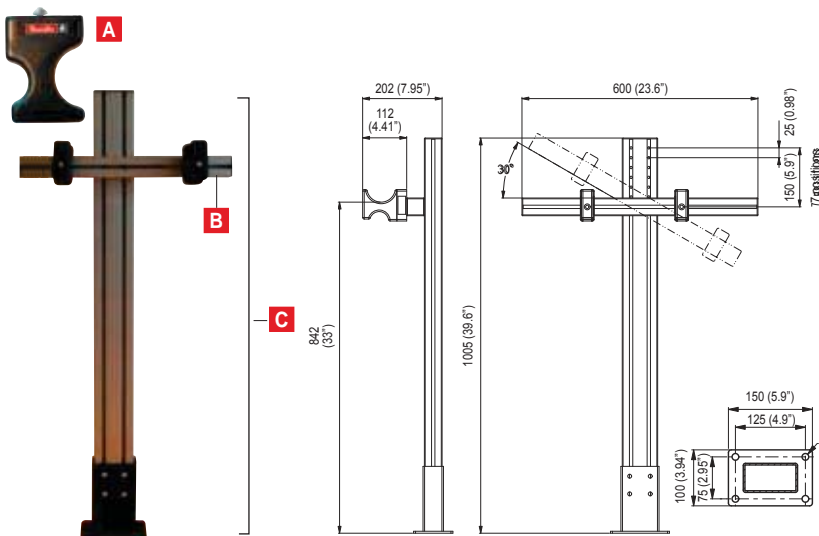
• To be used with:

- E-LIT pistol
- SB/SBP/SCBP
- SC/SCP/SCPT SC2
- SD/SDP/SDT
- SLE/SLK/SLB
- ECS
- ERS
- DR300/DR500/DR750
- CP4444/CP4447/CP4450
- CP4475

PART NUMBER	DESCRIPTION	MAX. DIAMETER	
		mm	in.
107 892	DTH-42	42	1.65



## Desoutter Tool Holster - DTH TWIN



PIC REF	PART NUMBER	DESCRIPTION
A*	615 811 411 0	DTH TWIN (single) without rail
B	615 811 412 5	DTH TWIN rail KIT with 2 TWIN holders
C	615 811 413 5	DTH TWIN stand kit with base & 2 TWIN holders

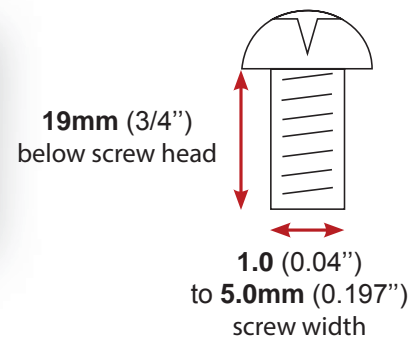
\* Includes screw and fixation for rail type Bosch 10mm slot



# ASD - Automatic screw dispenser

## To be used for the assembly of:

- Electronics: TV, mobile phones, computers
- Medical products
- Small appliances




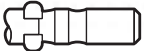

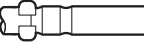



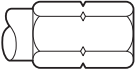

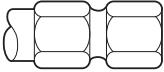

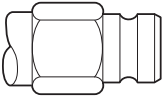

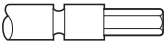

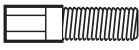
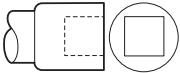
## Boost your productivity and efficiency

- **Widest range of screw sizes:** between 1.0 (0.04") and 5.0mm (0.197") thread diameters (about 11 different screw sizes) including screws with captive washers and up to 19mm (3/4") screw length (under head)
- **Complete:** supplied with universal feeding rail to avoid buying additional and expensive spare rails
- **Fully adjustable:** vibration time, vibration intensity, and drum rotation time adjustments allow the user to optimize the screw feed rate
- **Quiet operation & easy to service**
- Includes: rail adjustment kit, AC adapter and ground wire

PART NUMBER	POWER PLUG	SCREW RANGE		RAIL ADJUSTMENT KIT	DIMENSIONS						POWER	
		SIZE	LENGTH		L		H		W			
			mm	in.	mm	in.	mm	in.	mm	in.		
<b>Automatic Screw Dispenser - ASD</b>												
615 810 472 0	UK	M1.0 to M5.0	Up	Up								AC 100
615 810 473 0	EUR	M1.0 to M5.0	to 19	to 3/4"	included	126	5	147	5.8	182	7.2	~
615 810 474 0	US	0.04" to 0.197"	(under head)	(under head)								240V



# Fastening accessories

Fastener Head Type	Drives	Output
 Pozidriv/Supadriv	 4mm Wing Shank	E <sub>xx</sub> Torx Socket Size <sub>xx</sub>
 Phillips	 5mm Wing Shank	SW <sub>xx</sub> Socket Size <sub>xx</sub>
 Torx	 4mm Halfmoon	T Torx Size <sub>xx</sub>
 Torx Tamper Proof	 1/4" Hex** Insert (C6.3) (ISO1173/ DIN3126)	IN <sub>xx</sub> Hex Bit Size <sub>xx</sub>
 Torx Plus	 1/4" Hex Power Drive (E6.3) (ISO1173/ DIN3126)	XZN <sub>xx</sub> Torx 12 Bit Size <sub>xx</sub>
 Internal Hex	 5/16" Hex Power Drive	
 External Hex	 3mm Hex Power Drive (A3) (ISO1173)	
 Slot	 Thread Drive	
	 Square Drive	

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

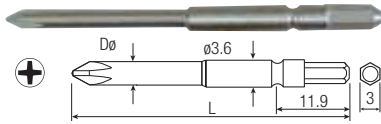
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ACR®, Pozidriv®, Torq-Set®, Tri-Wing® are registered trademarks of Phillips Screw Co.

We can propose today a high quality range of bits and sockets with the latest Technology Support and Quality controls.

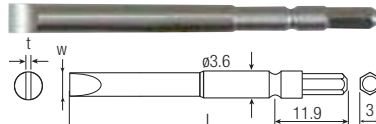


# Bits for precision screw

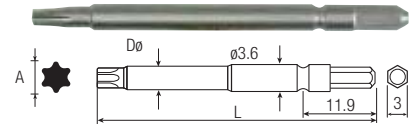
Drive:  $\varnothing$  3mm Hex drive



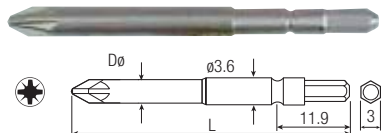
PH	D $\varnothing$		LENGTH L		PART NO
	mm	in	mm	in	
00	2.5	0.10	50	1.97	615 820 226 0
0	2.5	0.10	50	1.97	615 820 227 0
1	4.0	0.16	50	1.97	615 820 228 0



W	t		LENGTH L		PART NO
	mm	in	mm	in	
1.8	0.3	0.01	50	1.97	615 820 229 0
2	0.4	0.02	50	1.97	615 820 230 0
2.5	0.4	0.02	50	1.97	615 820 231 0
3	0.5	0.02	50	1.97	615 820 232 0*
3.5	0.6	0.02	50	1.97	615 820 234 0
4	0.5	0.02	50	1.97	615 820 233 0
4	0.8	0.03	50	1.97	615 820 236 0
4.5	0.6	0.02	50	1.97	615 820 235 0
5.5	0.8	0.03	50	1.97	615 820 237 0



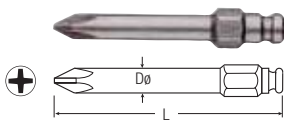
T	A		D $\varnothing$		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
T6	1.7	0.06	2.2	0.09	50	1.97	615 820 240 0
T7	2.0	0.08	2.2	0.09	50	1.97	615 820 241 0
T8	2.3	0.09	2.8	0.11	50	1.97	615 820 242 0
T10	2.7	0.11	3.0	0.12	50	1.97	615 820 243 0



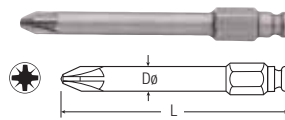
PZ	D $\varnothing$		LENGTH L		PART NO
	mm	in	mm	in	
0	3	0.12	50	1.97	615 820 238 0
1	4	0.16	50	1.97	615 820 239 0

\* Production upon your order.

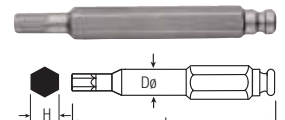
Drive: 5/16" = 8mm Hex drive



PH	D $\varnothing$		LENGTH L		PART NO
	mm	in	mm	in	
1	4.5	0.18	32	1.26	615 820 326 0
1	4.5	0.18	50	1.97	615 820 645 0
1	-	-	93	3.66	615 820 720 0
2	6.0	0.24	50	1.97	615 820 646 0
2	-	-	93	3.66	615 820 721 0
3	-	-	93	3.66	615 820 722 0



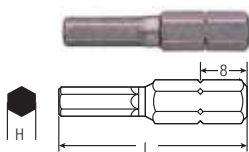
PZ	D $\varnothing$		LENGTH L		PART NO
	mm	in	mm	in	
1	-	-	52	2	615 820 723 0
1	-	-	92	3.62	615 820 724 0
2	6.0	0.24	50	1.97	615 820 647 0
2	6.0	0.24	75	2.95	615 820 697 0
2	6.0	0.24	92	3.62	615 820 355 0



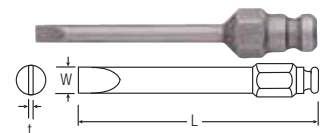
H	D $\varnothing$		LENGTH L		PART NO
	mm	in	mm	in	
H3	6.0	0.24	50	1.97	615 820 327 0*
H4	6.0	0.24	50	1.97	615 820 328 0*
H5	8.0	0.31	50	1.97	615 820 329 0
H6	8.0	0.31	50	1.97	615 820 330 0
H8	8.0	0.31	50	1.97	615 820 331 0*

\* Production upon your order.

Drive: 11mm Hex drive



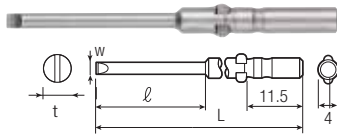
H	LENGTH L		PART NO
	mm	in	
H5	70	2.76	615 820 649 0
H6	70	2.76	615 820 650 0
H8	70	2.76	615 820 651 0
H10	70	2.76	615 820 652 0



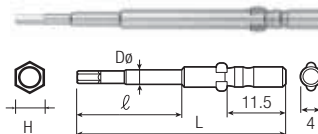
W	t		LENGTH L		PART NO
	mm	in	mm	in	
3	0.5	0.02	76	2.99	615 820 209 0
3	0.5	0.02	51	2.01	615 820 648 0
3.7	0.8	0.03	52	2.05	615 820 725 0
5	1.0	0.04	52	2.05	615 820 726 0
6.2	1.0	0.04	52	2.05	615 820 727 0
8.8	1.3	0.05	52	2.05	615 820 728 0
3.1	0.6	0.02	103	4.06	615 820 729 0
5	1.0	0.04	154	6.06	615 820 730 0

# Bits for precision screw

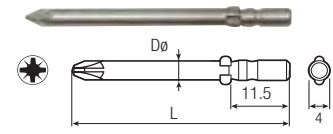
Drive:  $\varnothing$  4mm shank drive - Wing shank



W	t	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
2	0.3	0.01	20	0.79	40	1.57 615 820 423 0
2.5	0.3	0.01	20	0.79	40	1.57 615 820 424 0
3	0.4	0.02	20	0.79	40	1.57 615 820 048 0
4	0.5	0.02	-	-	40	1.57 615 820 425 0

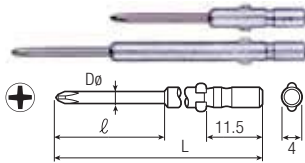


H	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
H1.5	2	0.08	20	0.79	60	2.36 615 820 426 0
H2	3	0.12	20	0.79	60	2.36 615 820 427 0
H2.5	3	0.12	20	0.79	60	2.36 615 820 428 0
H3	4	0.16	-	-	60	2.36 615 820 429 0

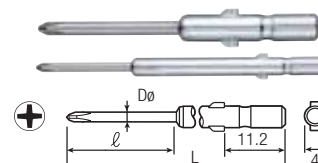


PZ	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
0	4	0.16	60	2.36	615 820 369 0	
1	4	0.16	60	2.36	615 820 370 0	
2	4	0.16	60	2.36	615 820 383 0	

Drive:  $\varnothing$  4mm shank drive - Wing shank

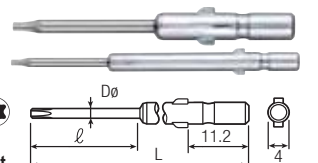


PH	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
00	1.2	0.05	20	0.79	40	1.57 615 820 027 0
00	1.5	0.06	20	0.79	40	1.57 615 820 412 0
00	1.5	0.06	20	0.79	60	2.36 615 820 413 0
00	2.0	0.08	20	0.79	40	1.57 615 820 414 0
00	2.0	0.08	20	0.79	60	2.36 615 820 415 0
0	1.4	0.06	20	0.79	40	1.57 615 820 028 0
0	1.4	0.06	20	0.79	60	2.36 615 820 029 0
0	1.7	0.07	20	0.79	40	1.57 615 820 416 0
0	1.7	0.07	20	0.79	60	2.36 615 820 417 0
0	2.0	0.08	20	0.79	40	1.57 615 820 030 0
0	2.0	0.08	20	0.79	60	2.36 615 820 031 0
0	2.0	0.08	20	0.79	80	3.15 615 820 032 0
0	2.0	0.08	20	0.79	100	3.94 615 820 033 0
0	2.5	0.10	20	0.79	40	1.57 615 820 418 0
0	2.5	0.10	20	0.79	60	2.36 615 820 419 0
0	2.5	0.10	20	0.79	80	3.15 615 820 034 0
0	2.5	0.10	20	0.79	100	3.94 615 820 035 0
1	3.0	0.12	20	0.79	40	1.57 615 820 420 0
1	3.0	0.12	20	0.79	60	2.36 615 820 036 0
1	3.0	0.12	20	0.79	80	3.15 615 820 037 0
1	3.0	0.12	20	0.79	100	3.94 615 820 038 0
1	3.0	0.12	20	0.79	120	4.72 615 820 442 0
1	4.0	0.16	-	-	40	1.57 615 820 421 0
1	4.0	0.16	-	-	60	2.36 615 820 039 0
1.3	0.3	0.01	20	0.79	40	1.57 615 820 044 0
1.7	0.3	0.01	20	0.79	40	1.57 615 820 045 0
2	0.4	0.02	20	0.79	40	1.57 615 820 046 0
2	4.0	0.16	-	-	40	1.57 615 820 422 0
2	4.0	0.16	-	-	60	2.36 615 820 040 0
2	4.0	0.16	-	-	80	3.15 615 820 041 0
2	4.0	0.16	-	-	100	3.94 615 820 042 0
2	4.0	0.16	-	-	120	4.72 615 820 043 0
2.5	0.4	0.02	20	0.79	40	1.57 615 820 047 0



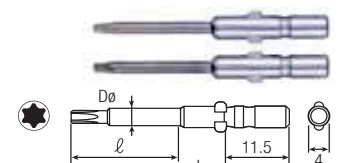
**Shockless Bit**

PH	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
00	1.5	0.06	20	0.79	40	1.57 615 820 390 0
00	1.5	0.06	20	0.79	60	2.36 615 820 391 0
0	1.5	0.06	20	0.79	40	1.57 615 820 392 0
0	1.5	0.06	20	0.79	60	2.36 615 820 393 0
0	1.7	0.07	20	0.79	40	1.57 615 820 394 0
0	1.7	0.07	20	0.79	60	2.36 615 820 395 0
0	2	0.08	20	0.79	40	1.57 615 820 396 0
0	2	0.08	20	0.79	60	2.36 615 820 397 0

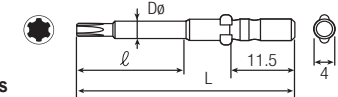


**Shockless Bit**

T	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
T5	2	0.08	20	0.79	40	1.57 615 820 398 0
T5	2	0.08	20	0.79	60	2.36 615 820 399 0
T6	2	0.08	20	0.79	40	1.57 615 820 400 0
T6	2	0.08	20	0.79	60	2.36 615 820 401 0



T	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
T1	1.5	0.06	20	0.79	40	1.57 615 820 670 0
T2	1.5	0.06	20	0.79	40	1.57 615 820 671 0
T3	1.7	0.07	20	0.79	40	1.57 615 820 672 0
T4	1.8	0.07	20	0.79	40	1.57 615 820 673 0
T5	2.0	0.08	20	0.79	40	1.57 615 820 049 0
T5	2.0	0.08	20	0.79	60	2.36 615 820 050 0
T6	2.0	0.08	20	0.79	40	1.57 615 820 051 0
T6	2.0	0.08	20	0.79	60	2.36 615 820 052 0
T7	2.0	0.08	20	0.79	60	2.36 615 820 053 0
T8	3.0	0.12	20	0.79	40	1.57 615 820 674 0
T8H	4.0	0.16	-	-	60	2.36 615 820 054 0
T9	3.0	0.12	20	0.79	40	1.57 615 820 675 0
T10	3.0	0.12	20	0.79	40	1.57 615 820 676 0
T10H	4.0	0.16	-	-	60	2.36 615 820 055 0

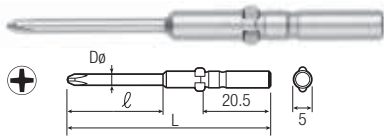


**Torx Plus**

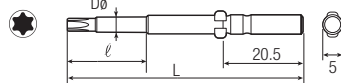
IP	Dø	l		LENGTH L		PART NO
mm	in	mm	in	mm	in	10 pcs
4IP	1.8	0.07	20	0.79	60	2.36 615 820 371 0
5IP	2.0	0.08	20	0.79	60	2.36 615 820 372 0
6IP	2.5	0.10	20	0.79	60	2.36 615 820 373 0
8IP	3.0	0.12	20	0.79	60	2.36 615 820 374 0
10IP	3.0	0.12	20	0.79	60	2.36 615 820 375 0

# Bits for precision screw

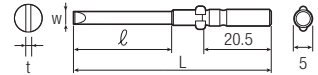
Drive:  $\varnothing$  5mm shank drive - Wing shank



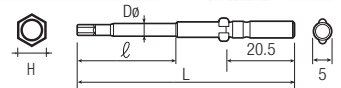
PH	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
00	1.5	0.06	-	-	60	2.36	<b>615 820 430 0</b>
0	2.5	0.10	25	0.98	60	2.36	<b>615 820 431 0</b>
1	3.0	0.12	30	1.18	60	2.36	<b>615 820 432 0</b>
1	3.0	0.12	30	1.18	80	3.15	<b>615 820 071 0</b>
1	5.0	0.20	-	-	60	2.36	<b>615 820 433 0</b>
2	5.0	0.20	-	-	60	2.36	<b>615 820 434 0</b>
2	5	0.2	-	-	80	3.15	<b>615 820 072 0</b>
2	5	0.2	-	-	100	3.15	<b>615 820 073 0</b>
2	5.0	0.20	-	-	120	4.72	<b>615 820 074 0</b>
2	5.0	0.20	-	-	150	5.91	<b>615 820 075 0</b>



T	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
T5	2.0	0.08	20	0.79	60	2.36	<b>615 820 677 0</b>
T6	2.5	0.10	20	0.79	60	2.36	<b>615 820 678 0</b>
T7	2.5	0.10	20	0.79	60	2.36	<b>615 820 679 0</b>
T8	3.0	0.12	20	0.79	60	2.36	<b>615 820 680 0</b>
T9	3.0	0.12	20	0.79	60	2.36	<b>615 820 681 0</b>
T10	3.0	0.12	20	0.79	60	2.36	<b>615 820 682 0</b>
T15	4.0	0.16	20	0.79	60	2.36	<b>615 820 683 0</b>
T20	-	-	-	-	60	2.36	<b>615 820 684 0</b>
T25	-	-	-	-	60	2.36	<b>615 820 685 0</b>

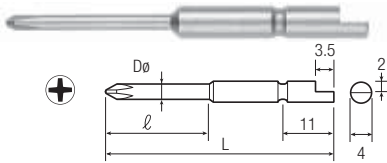


w	t	l		LENGTH L		PART NO	
		mm	in	mm	in		10 pcs
3	0.4	0.02	30	1.18	60	2.36	<b>615 820 435 0</b>
4	0.6	0.02	30	1.18	60	2.36	<b>615 820 436 0</b>
5	0.7	0.03	-	-	60	2.36	<b>615 820 437 0</b>

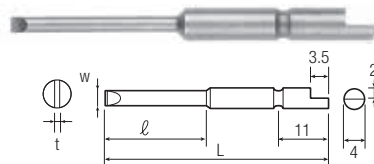


H	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
H2	3	0.12	30	1.18	70	2.76	<b>615 820 438 0</b>
H2.5	3	0.12	30	1.18	70	2.76	<b>615 820 439 0</b>
H3	4	0.16	30	1.18	70	2.76	<b>615 820 440 0</b>
H4	5	0.20	-	-	70	2.76	<b>615 820 441 0</b>

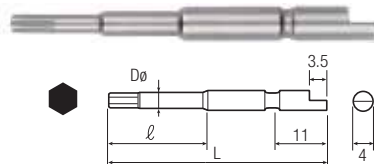
Drive:  $\varnothing$  4mm - Halfmoon



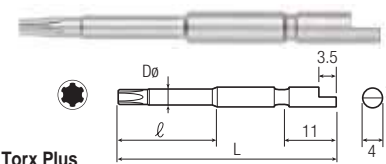
PH	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
000	1.5	0.06	20	0.79	44	1.73	<b>615 820 386 0</b>
000	1.5	0.06	20	0.79	64	2.52	<b>615 820 389 0</b>
00	1.5	0.06	20	0.79	44	1.73	<b>615 820 406 0</b>
00	1.5	0.06	20	0.79	64	2.52	<b>615 820 407 0</b>
00	2.0	0.08	20	0.79	64	2.52	<b>615 820 078 0</b>
0	1.8	0.07	20	0.79	44	1.73	<b>615 820 076 0</b>
0	1.8	0.07	20	0.79	64	2.52	<b>615 820 077 0</b>
0	2.0	0.08	20	0.79	44	1.73	<b>615 820 408 0</b>
0	2.0	0.08	20	0.79	64	2.52	<b>615 820 409 0</b>
0	2.5	0.10	20	0.79	44	1.73	<b>615 820 079 0</b>
0	2.5	0.10	20	0.79	64	2.52	<b>615 820 080 0</b>
1	3.0	0.12	20	0.79	44	1.73	<b>615 820 410 0</b>
1	3.0	0.12	20	0.79	64	2.52	<b>615 820 411 0</b>
1	4.0	0.16	20	0.79	44	1.73	<b>615 820 081 0</b>
1	4.0	0.16	20	0.79	64	2.52	<b>615 820 082 0</b>
2	4.0	0.16	20	0.79	44	1.73	<b>615 820 083 0</b>
2	4.0	0.16	20	0.79	64	2.52	<b>615 820 084 0</b>



w	t	l		LENGTH L		PART NO	
		mm	in	mm	in		10 pcs
2	0.3	0.01	20	0.79	44	1.73	<b>615 820 086 0</b>
2.5	0.3	0.01	20	0.79	44	1.73	<b>615 820 087 0</b>
3	0.4	0.02	20	0.79	44	1.73	<b>615 820 088 0</b>
4	0.5	0.02	-	-	44	1.73	<b>615 820 089 0</b>



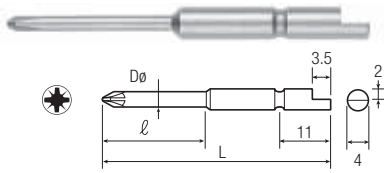
H	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
H1.5	2.0	0.08	20	0.79	44	1.73	<b>615 820 091 0</b>
H2	3.0	0.12	20	0.79	44	1.73	<b>615 820 092 0</b>
H2.5	3.0	0.12	20	0.79	44	1.73	<b>615 820 093 0</b>
H3	4.0	0.16	-	-	44	1.73	<b>615 820 094 0</b>



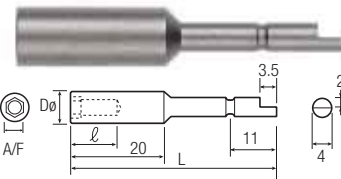
IP	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
2IP	1.5	0.06	20	0.79	44	1.73	<b>615 820 381 0</b>
2IP	1.5	0.06	20	0.79	64	2.52	<b>615 820 367 0</b>
3IP	1.7	0.07	20	0.79	44	1.73	<b>615 820 382 0</b>
3IP	1.7	0.07	20	0.79	64	2.52	<b>615 820 368 0</b>
4IP	1.8	0.07	20	0.79	44	1.73	<b>615 820 357 0</b>
4IP	1.8	0.07	20	0.79	64	2.52	<b>615 820 358 0</b>
5IP	2.0	0.08	20	0.79	44	1.73	<b>615 820 359 0</b>
5IP	2.0	0.08	20	0.79	64	2.52	<b>615 820 360 0</b>
6IP	2.5	0.10	20	0.79	44	1.73	<b>615 820 361 0</b>
6IP	2.5	0.10	20	0.79	64	2.52	<b>615 820 362 0</b>
8IP	3.0	0.12	20	0.79	44	1.73	<b>615 820 363 0</b>
8IP	3.0	0.12	20	0.79	64	2.52	<b>615 820 364 0</b>
10IP	3.0	0.12	20	0.79	44	1.73	<b>615 820 365 0</b>
10IP	3.0	0.12	20	0.79	64	2.52	<b>615 820 366 0</b>

# Bits for precision screw

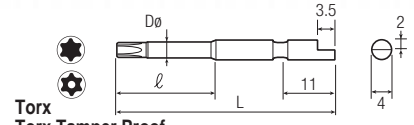
Drive:  $\varnothing$  4mm - Halfmoon



PZ	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
0	2.5	0.10	20	0.79	44	1.73	<b>615 820 377 0</b>
0	2.5	0.10	20	0.79	64	2.52	<b>615 820 378 0</b>
1	4.0	0.16	-	-	44	1.73	<b>615 820 379 0</b>
1	4.0	0.16	-	-	64	2.52	<b>615 820 380 0</b>
1	3.0	0.12	30	1.18	90	3.54	<b>615 820 387 0</b>



AF	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
AF2.3	4.0	0.16	5	0.20	44	1.73	<b>615 820 095 0</b>
AF2.5	4.0	0.16	5	0.20	44	1.73	<b>615 820 096 0</b>
AF3	5.0	0.20	8	0.31	44	1.73	<b>615 820 097 0</b>
AF4	7.0	0.28	10	0.39	44	1.73	<b>615 820 098 0</b>
AF4.5	7.0	0.28	10	0.39	44	1.73	<b>615 820 099 0</b>
AF5	8.0	0.31	15	0.59	44	1.73	<b>615 820 100 0</b>
AF5.5	8.0	0.31	15	0.59	44	1.73	<b>615 820 101 0</b>

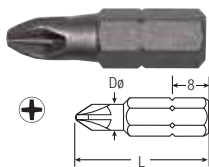


Torx  
Torx Tamper Proof

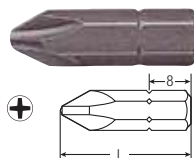
T	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
T1	1.5	0.06	20	0.79	44	1.73	<b>615 820 663 0</b>
T2	1.5	0.06	20	0.79	44	1.73	<b>615 820 664 0</b>
T3	1.7	0.07	20	0.79	44	1.73	<b>615 820 665 0</b>
T3	1.7	0.07	20	0.79	64	1.73	<b>615 820 384 0</b>
T4	1.8	0.07	20	0.79	44	1.73	<b>615 820 666 0</b>
T4	1.8	0.07	20	0.79	64	2.52	<b>615 820 385 0</b>
T5	2.0	0.08	20	0.79	44	1.73	<b>615 820 102 0</b>
T5	2.0	0.08	20	0.79	64	2.52	<b>615 820 103 0</b>
T6	2.0	0.08	20	0.79	44	1.73	<b>615 820 104 0</b>
T6	2.0	0.08	20	0.79	64	2.52	<b>615 820 105 0</b>
T7	-	-	-	-	44	1.73	<b>615 820 667 0</b>
T8	3.0	0.12	20	0.79	44	1.73	<b>615 820 668 0</b>
T8H	3.0	0.12	20	0.79	44	1.73	<b>615 820 106 0</b>
T8H	3.0	0.12	20	0.79	64	2.52	<b>615 820 107 0</b>
T9	3.0	0.12	20	0.79	44	1.73	<b>615 820 669 0</b>
T10H	3.0	0.12	20	0.79	44	1.73	<b>615 820 108 0</b>
T10H	3.0	0.12	20	0.79	64	2.52	<b>615 820 109 0</b>
T15H	4.0	0.16	20	0.79	64	2.52	<b>615 820 110 0</b>
T20	-	-	-	-	64	2.52	<b>615 820 388 0</b>

# Insert bits

Drive: 1/4" = 6.35mm  
Hex shank DIN3126-C6.3

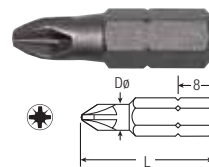


PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	
0	3.0	0.12	25.0	0.98	<b>615 820 516 0</b>
1	4.5	0.18	25.0	0.98	<b>615 820 517 0</b>
1	4.5	0.18	50.0	1.97	<b>615 820 687 0</b>
2	6.0	0.24	25.4	1.00	<b>615 820 518 0</b>
2	6.0	0.24	50.0	1.97	<b>615 820 519 0*</b>
2	6.0	0.24	50.0	1.97	<b>615 820 688 0</b>
3	6.0	0.24	50.0	1.97	<b>615 820 689 0</b>

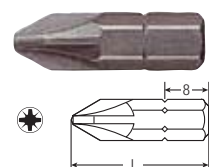


PH	LENGTH L		PART NO
	mm	in	
0	25.4	1.00	<b>615 820 445 0*</b>
1	25.4	1.00	<b>615 820 446 0</b>
2	25.4	1.00	<b>615 820 447 0</b>
3	25.4	1.00	<b>615 820 448 0</b>

\* Production upon your order.



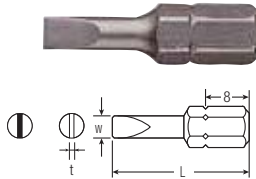
PZ	Dø		LENGTH L		PART NO
	mm	in	mm	in	
0	3.0	0.12	25.0	0.98	<b>615 820 345 0</b>
1	4.5	0.18	25.0	0.98	<b>615 820 690 0</b>
1	4.5	0.18	50.0	1.97	<b>615 820 691 0</b>
2	6.0	0.24	25.0	0.98	<b>615 820 687 0</b>
2	6.0	0.24	50.0	1.97	<b>615 820 521 0</b>
3	6.0	0.24	25.0	0.98	<b>615 820 693 0</b>



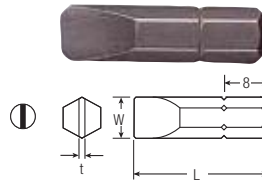
PZ	LENGTH L		PART NO
	mm	in	
1	25.4	1.00	<b>615 820 449 0</b>
1	50.0	1.97	<b>615 820 520 0</b>
2	25.4	1.00	<b>615 820 450 0</b>
2	50.0	1.97	<b>615 820 521 0</b>
3	25.4	1.00	<b>615 820 451 0</b>
3	50.0	1.97	<b>615 820 522 0</b>

# Insert bits

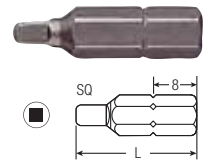
Drive: 1/4" = 6.35mm  
Hex shank DIN3126-C6.3



w	t	LENGTH L		PART NO
mm	in	mm	in	10 pcs
3.5	0.6	0.02	25.0	0.98 <b>615 820 662 0</b>
4	0.6	0.02	25.0	0.98 <b>615 820 531 0</b>
5	0.8	0.03	25.0	0.98 <b>615 820 532 0</b>
5.5	0.8	0.03	25.0	0.98 <b>615 820 111 0</b>

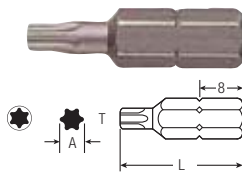


w	t	LENGTH L		PART NO
mm	in	mm	in	10 pcs
4.76	0.9	0.03	25.4	1.00 <b>615 820 452 0</b>
5.55	1.0	0.04	25.4	1.00 <b>615 820 453 0</b>
6.35	1.1	0.04	25.4	1.00 <b>615 820 454 0</b>
7.14	1.2	0.05	25.4	1.00 <b>615 820 455 0</b>
7.93	1.3	0.05	25.4	1.00 <b>615 820 456 0</b>

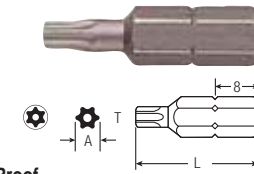


SQ	LENGTH L		PART NO
mm	in	10 pcs	
1 (3/32")	25.4	1.00	<b>615 820 461 0*</b>
2 (1/8")	25.4	1.00	<b>615 820 462 0</b>
3 (9/64")	25.4	1.00	<b>615 820 463 0</b>

\* Production upon your order.



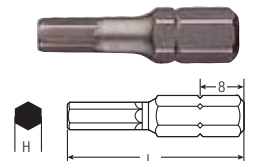
T	A	LENGTH L		PART NO
mm	in	mm	in	10 pcs
T3	1.1	0.04	25.0	0.98 <b>615 820 686 0</b>
T5	1.4	0.05	25.0	0.98 <b>615 820 537 0</b>
T6	1.7	0.06	25.0	0.98 <b>615 820 538 0</b>
T7	2.0	0.08	25.0	0.98 <b>615 820 539 0</b>
T8	2.3	0.09	25.0	0.98 <b>615 820 540 0</b>
T9	2.5	0.10	25.0	0.98 <b>615 820 541 0</b>
T10	2.7	0.11	25.0	0.98 <b>615 820 542 0</b>
T15	3.3	0.13	25.0	0.98 <b>615 820 543 0</b>
T20	3.8	0.15	25.0	0.98 <b>615 820 544 0</b>
T25	4.4	0.17	25.0	0.98 <b>615 820 545 0</b>
T27	5.0	0.20	25.0	0.98 <b>615 820 546 0</b>
T30	5.5	0.22	25.0	0.98 <b>615 820 547 0</b>
T40	6.6	0.26	25.0	0.98 <b>615 820 548 0</b>



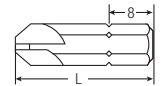
Torx Tamper Proof

T	A	LENGTH L		PART NO
mm	in	mm	in	10 pcs
T8H	2.3	0.09	25.0	0.98 <b>615 820 112 0</b>
T9H	2.5	0.10	25.0	0.98 <b>615 820 113 0</b>
T10H	2.7	0.11	25.0	0.98 <b>615 820 549 0</b>
T15H	3.3	0.13	25.0	0.98 <b>615 820 550 0</b>
T20H	3.8	0.15	25.0	0.98 <b>615 820 551 0</b>
T25H	4.4	0.17	25.0	0.98 <b>615 820 552 0</b>
T27H	5.0	0.20	25.0	0.98 <b>615 820 553 0*</b>
T30H	5.5	0.22	25.4	1.00 <b>615 820 554 0</b>

\* Production upon your order.



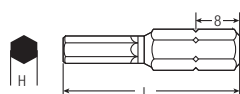
H	LENGTH L		PART NO
mm	in	10 pcs	
H1.5	25.0	0.98	<b>615 820 523 0</b>
H2	25.0	0.98	<b>615 820 524 0</b>
H2.5	25.0	0.98	<b>615 820 525 0</b>
H3	25.0	0.98	<b>615 820 526 0</b>
H4	25.0	0.98	<b>615 820 527 0</b>
H4	33.3	1.31	<b>615 820 457 0</b>
H5	25.0	0.98	<b>615 820 528 0</b>
H5	33.3	1.31	<b>615 820 458 0</b>
H6	25.0	0.98	<b>615 820 529 0</b>
H6	33.3	1.31	<b>615 820 459 0</b>
H8	25.0	0.98	<b>615 820 530 0</b>
H8	33.3	1.31	<b>615 820 460 0</b>



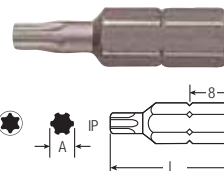
TW	LENGTH L		PART NO
mm	in	10 pcs	
TW1	25.4	1.00	<b>615 820 121 0</b>
TW2	25.4	1.00	<b>615 820 122 0</b>
TW3	25.4	1.00	<b>615 820 123 0*</b>
TW4	25.4	1.00	<b>615 820 124 0</b>

\* Production upon your order.

Drive: 5/16" = 8mm  
Hex shank - DIN3126-C8



H	LENGTH L		PART NO
mm	in	10 pcs	
H5	34.0	1.34	<b>615 820 533 0</b>
H6	34.0	1.34	<b>615 820 534 0</b>
H7	34.0	1.34	<b>615 820 317 0</b>
H8	34.0	1.34	<b>615 820 535 0</b>
H10	34.0	1.34	<b>615 820 536 0</b>



Torx Plus

IP	A	LENGTH L		PART NO
mm	in	mm	in	10 pcs
6IP	1.7	0.06	25.0	0.98 <b>615 820 257 0</b>
8IP	2.3	0.09	25.0	0.98 <b>615 820 258 0</b>
10IP	2.7	0.11	25.0	0.98 <b>615 820 259 0</b>
15IP	3.3	0.13	25.0	0.98 <b>615 820 260 0</b>
20IP	3.8	0.15	25.0	0.98 <b>615 820 261 0</b>
25IP	4.4	0.17	25.0	0.98 <b>615 820 262 0</b>
30IP	5.5	0.22	25.0	0.98 <b>615 820 263 0</b>
40IP	6.6	0.26	25.4	1.00 <b>615 820 264 0</b>

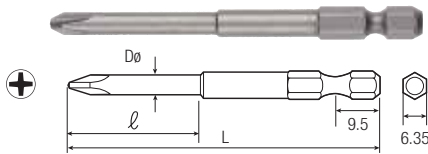
Ball Point

H	LENGTH L		PART NO
mm	in	10 pcs	
H2	25.0	0.98	<b>615 820 114 0</b>
H2.5	25.0	0.98	<b>615 820 115 0</b>
H3	25.0	0.98	<b>615 820 116 0</b>
H4	25.0	0.98	<b>615 820 117 0</b>
H5	25.0	0.98	<b>615 820 118 0</b>
H6	25.0	0.98	<b>615 820 119 0</b>
H8	25.0	0.98	<b>615 820 120 0</b>

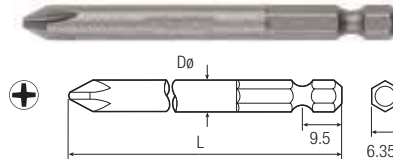


# Power bits

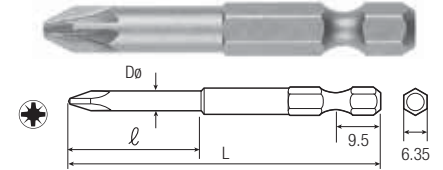
Drive: 1/4" = 6.35mm  
Hex drive - DIN3126-E6.3



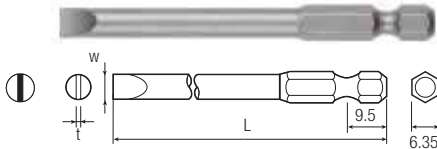
PH	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
00	1.2	0.05	20	0.8	60	2.4	615 820 056 0
00	1.6	0.06	-	-	49	1.9	615 820 125 0
00	1.6	0.06	-	-	70	2.8	615 820 348 0
00	1.5	0.06	20	0.8	60	2.4	615 820 057 0
00	1.7	0.07	20	0.8	60	2.4	615 820 058 0
00	2	0.08	40	1.57	60	2.36	615 820 059 0
00	2.0	0.08	40	1.6	100	3.9	615 820 060 0
0	1.4	0.06	30	1.2	60	2.4	615 820 061 0
0	1.7	0.07	30	1.2	60	2.4	615 820 063 0
0	1.7	0.07	40	1.6	80	3.1	615 820 064 0
0	2.0	0.08	20	0.8	60	2.4	615 820 065 0
0	2.0	0.08	30	1.2	100	3.9	615 820 066 0
0	2.5	0.10	20	0.8	60	2.4	615 820 067 0
0	2.5	0.10	30	1.2	100	3.9	615 820 068 0
0	3.0	0.12	20	0.8	60	2.4	615 820 069 0
0	3.0	0.12	30	1.2	100	3.9	615 820 070 0
0	3.2	0.12	-	-	49	1.9	615 820 464 0



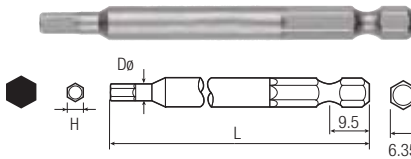
PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	
1	4.8	0.19	49	1.93	615 820 465 0
1	4.8	0.19	50	1.97	615 820 706 0
1	4.76	0.19	70	2.76	615 820 466 0
1	4.76	0.19	89	3.50	615 820 467 0
1	4.76	0.19	110	4.33	615 820 707 0
1	4.5	0.18	150	5.91	615 820 659 0
1	4.76	0.19	152	5.98	615 820 468 0
2	4.76	0.19	49	1.93	615 820 126 0
2	6.35	0.25	49	1.93	615 820 469 0
2	6.0	0.24	50	1.97	615 820 708 0
2	6.35	0.25	70	2.76	615 820 470 0
2	6.35	0.25	89	3.50	615 820 471 0
2	6.0	0.24	100	3.94	615 820 561 0
2	6.0	0.24	110	4.33	615 820 709 0
2	6.0	0.24	127	5.00	615 820 127 0
2	6.0	0.24	150	5.91	615 820 660 0
2	6.35	0.25	152	5.98	615 820 472 0
2	6.0	0.24	200	7.87	615 820 129 0
3	7.9	0.31	49	1.93	615 820 473 0
3	6.0	0.24	50	1.97	615 820 710 0
3	7.9	0.31	70	2.76	615 820 474 0
3	7.9	0.31	89	3.50	615 820 475 0
3	8.0	0.31	100	3.94	615 820 562 0
3	8.0	0.31	150	5.91	615 820 128 0



PZ	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
0	1.4	0.06	30	1.18	60	2.36	615 820 312 0
0	3.17	0.12	28	1.10	49	1.93	615 820 130 0
0	3.17	0.12	-	-	70	2.76	615 820 314 0
0	2.00	0.08	20	0.79	60	2.36	615 820 715 0
0	3.00	0.12	20	0.79	60	2.36	615 820 716 0
0	2.0	0.08	30	1.18	100	3.94	615 820 322 0
1	4.76	0.19	-	-	49	1.93	615 820 131 0
1	4.76	0.19	20	0.79	50	1.97	615 820 485 0
1	4.76	0.19	-	-	70	2.76	615 820 352 0
1	4.76	0.19	50	1.97	75	2.95	615 820 486 0
1	4.76	0.19	-	-	89	3.50	615 820 478 0
1	4.50	0.18	-	-	100	3.94	615 820 483 0
1	4.76	0.19	80	3.15	110	4.33	615 820 484 0
1	4.76	0.19	50	1.97	152	5.98	615 820 481 0
2	6.35	0.25	-	-	49	1.93	615 820 311 0
2	6.0	0.24	22	0.87	50	1.97	615 820 712 0
2	6.35	0.25	-	-	70	2.76	615 820 476 0
2	6.35	0.25	-	-	89	3.50	615 820 479 0
2	6.0	0.24	-	-	100	3.94	615 820 558 0
2	6.0	0.24	80	3.15	110	4.33	615 820 563 0
2	6.0	0.24	-	-	127	5.00	615 820 564 0
2	6.0	0.24	-	-	150	5.91	615 820 661 0
2	6.35	0.25	50	1.97	152	5.98	615 820 482 0
2	6.0	0.24	-	-	200	7.87	615 820 711 0
3	8.0	0.31	-	-	49	1.93	615 820 313 0
3	8.0	0.31	-	-	70	2.76	615 820 477 0
3	8.0	0.31	-	-	89	3.50	615 820 480 0
3	6.0	0.24	80	3.15	110	4.33	615 820 713 0
4	8.0	0.31	-	-	51	2.01	615 820 714 0
4	8.0	0.31	-	-	75	2.99	615 820 559 0



W	t		LENGTH L		PART NO
	mm	in	mm	in	
3.0	0.50	0.02	51	2.01	615 820 566 0
3.4	0.66	0.03	70	2.76	615 820 135 0
3.8	0.76	0.03	76	2.99	615 820 137 0
4.0	0.60	0.02	51	2.01	615 820 567 0
4.75	0.86	0.03	76	2.99	615 820 138 0
5.5	0.80	0.03	51	2.01	615 820 568 0
6.35	0.91	0.04	49	1.93	615 820 489 0
3.1	0.56	0.02	102	4.02	615 820 144 0
3.1	0.56	0.02	76	2.99	615 820 136 0
3.1	0.56	0.02	49	1.93	615 820 132 0
9.1	1.27	0.05	102	4.02	615 820 152 0
7.9	1.17	0.05	102	4.02	615 820 151 0
6.98	1.067	0.04	102	4.02	615 820 150 0
6.35	0.96	0.04	102	4.02	615 820 149 0
6.12	1.0	0.04	95	3.7	615 820 717 0
5.46	0.91	0.04	102	4.02	615 820 148 0
4.75	0.86	0.03	102	4.02	615 820 147 0
3.8	0.55	0.02	102	4.02	615 820 146 0
3.4	1.27	0.05	102	4.02	615 820 145 0
9.1	1.17	0.05	76	2.99	615 820 143 0
7.9	1.067	0.04	76	2.99	615 820 142 0
6.98	0.96	0.04	76	2.99	615 820 141 0
5.46	0.91	0.04	76	2.99	615 820 140 0
5.46	1.27	0.05	76	2.99	615 820 139 0
9.1	1.17	0.05	49	1.93	615 820 493 0
7.9	1.067	0.04	49	1.93	615 820 492 0
6.98	0.96	0.04	49	1.93	615 820 491 0
6.35	0.91	0.04	49	1.93	615 820 490 0
5.46	0.86	0.03	49	1.93	615 820 488 0
4.75	0.76	0.03	49	1.93	615 820 487 0
3.8	0.55	0.02	49	1.93	615 820 134 0
3.4	0.66	0.03	49	1.93	615 820 133 0

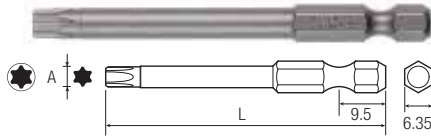


H	Dø		LENGTH L		PART NO
	mm	in	mm	in	
H2	7.0	0.28	75	2.95	615 820 001 0
H2	7.0	0.28	100	3.94	615 820 002 0
H2	3.5	0.14	49	1.93	615 820 353 0
H2	7.0	0.28	150	5.91	615 820 013 0
H2.5	7.0	0.28	75	2.95	615 820 003 0
H2.5	7.0	0.28	100	3.94	615 820 004 0
H2.5	7.0	0.28	150	5.91	615 820 014 0
H2.5	3.5	0.14	49	1.93	615 820 495 0
H3	3.5	0.14	49	1.93	615 820 496 0
H3	7.0	0.28	75	2.95	615 820 005 0
H3	7.0	0.28	100	3.94	615 820 006 0
H3	7.0	0.28	150	5.91	615 820 015 0
H4	4.6	0.18	49	1.93	615 820 497 0
H4	7.0	0.28	75	2.95	615 820 007 0
H4	7.0	0.28	100	3.94	615 820 008 0
H4	7.0	0.28	150	5.91	615 820 016 0
H5	5.8	0.23	49	1.93	615 820 498 0
H5	7.0	0.28	75	2.95	615 820 009 0
H5	7.0	0.28	100	3.94	615 820 010 0
H5	7.0	0.28	150	5.91	615 820 017 0

H	Dø		LENGTH L		PART NO
	mm	in	mm	in	
H6	-	-	49	1.93	615 820 499 0
H6	7.0	0.28	75	2.95	615 820 011 0
H6	7.0	0.28	100	3.94	615 820 012 0
H6	7.0	0.28	150	5.91	615 820 018 0
H7	10	0.39	70	2.76	615 820 569 0
H8	-	-	49	1.93	615 820 315 0
H8	10	0.39	70	2.76	615 820 570 0
H8	10	0.39	150	5.91	615 820 019 0
H9	11	0.43	70	2.76	615 820 571 0
H10	-	-	49	1.93	615 820 354 0
H10	12	0.47	70	2.76	615 820 572 0
H1/4"	-	-	49	1.93	615 820 494 0

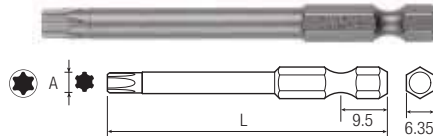
# Power bits

Drive: 1/4" = 6.35mm  
Hex drive - DIN3126-E6.3



T	A		LENGTH L		PART NO
	mm	in	mm	in	
T5	1.37	0.05	49	1.93	615 820 153 0
T5	1.37	0.05	70	2.76	615 820 154 0
T5	1.37	0.05	89	3.50	615 820 155 0
T6	1.65	0.06	49	1.93	615 820 156 0
T6	1.65	0.06	70	2.76	615 820 157 0
T6	1.65	0.06	89	3.50	615 820 158 0
T6	1.65	0.06	152	5.98	615 820 159 0
T7	1.97	0.08	49	1.93	615 820 160 0
T7	1.97	0.08	70	2.76	615 820 161 0
T7	1.97	0.08	89	3.50	615 820 162 0
T7	1.97	0.08	152	5.98	615 820 165 0
T8	2.30	0.09	49	1.93	615 820 166 0
T8	2.30	0.09	70	2.76	615 820 167 0
T8	2.30	0.09	90	3.54	615 820 168 0
T8	2.30	0.09	152	5.98	615 820 169 0
T9	2.48	0.10	49	1.93	615 820 170 0
T9	2.48	0.10	70	2.76	615 820 171 0
T9	2.48	0.10	90	3.54	615 820 172 0
T9	2.48	0.10	152	5.98	615 820 176 0
T10	2.72	0.11	49	1.93	615 820 177 0
T10	2.72	0.11	70	2.76	615 820 178 0
T10	2.72	0.11	90	3.54	615 820 179 0
T10	2.72	0.11	152	5.98	615 820 180 0
T15	3.26	0.13	49	1.93	615 820 181 0
T15	3.26	0.13	70	2.76	615 820 183 0
T15	3.26	0.13	90	3.54	615 820 186 0
T15	3.26	0.13	152	5.98	615 820 187 0*
T20	3.84	0.15	49	1.93	615 820 188 0
T20	3.84	0.15	70	2.76	615 820 189 0
T20	3.84	0.15	90	3.54	615 820 190 0
T20	3.84	0.15	152	5.98	615 820 191 0
T25	4.40	0.17	49	1.93	615 820 192 0
T25	4.40	0.17	70	2.76	615 820 193 0
T25	4.40	0.17	152	5.98	615 820 316 0*
T27	4.96	0.20	49	1.93	615 820 325 0
T27	4.96	0.20	90	3.54	615 820 356 0
T27	4.96	0.20	152	5.98	615 820 695 0
T30	5.49	0.22	49	1.93	615 820 163 0
T30	5.49	0.22	70	2.76	615 820 174 0
T30	5.49	0.22	90	3.54	615 820 184 0
T30	5.49	0.22	152	5.98	615 820 194 0
T40	6.60	0.26	49	1.93	615 820 164 0
T40	6.60	0.26	70	2.76	615 820 175 0
T40	6.60	0.26	90	3.54	615 820 185 0
T40	6.60	0.26	152	5.98	615 820 195 0

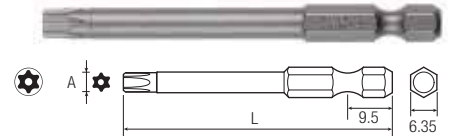
\* Production upon your order.



## Torx Plus

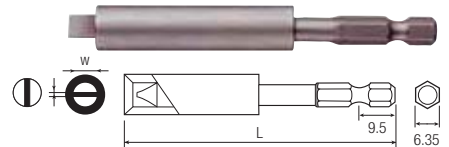
IP	A		LENGTH L		PART NO
	mm	in	mm	in	
5IP	1.37	0.05	49	1.93	615 820 265 0
5IP	1.37	0.05	70	2.76	615 820 266 0
6IP	1.65	0.06	49	1.93	615 820 267 0
6IP	1.65	0.06	70	2.76	615 820 268 0
6IP	1.65	0.06	90	3.54	615 820 269 0
6IP	1.65	0.06	152	5.98	615 820 270 0
7IP	1.97	0.08	49	1.93	615 820 271 0
7IP	1.97	0.08	70	2.76	615 820 272 0
7IP	1.97	0.08	90	3.54	615 820 273 0
7IP	1.97	0.08	152	5.98	615 820 274 0
8IP	2.30	0.09	49	1.93	615 820 275 0
8IP	2.30	0.09	70	2.76	615 820 276 0
8IP	2.30	0.09	90	3.54	615 820 277 0
8IP	2.30	0.09	152	5.98	615 820 278 0
9IP	2.48	0.10	49	1.93	615 820 280 0
9IP	2.48	0.10	70	2.76	615 820 281 0*
9IP	2.48	0.10	90	3.54	615 820 286 0*
9IP	2.48	0.10	152	5.98	615 820 279 0*
10IP	2.72	0.11	49	1.93	615 820 287 0
10IP	2.72	0.11	70	2.76	615 820 288 0
10IP	2.72	0.11	90	3.54	615 820 293 0
10IP	2.72	0.11	152	5.98	615 820 294 0
15IP	3.26	0.13	49	1.93	615 820 295 0
15IP	3.26	0.13	70	2.76	615 820 296 0*
15IP	3.26	0.13	90	3.54	615 820 301 0*
15IP	3.26	0.13	152	5.98	615 820 302 0
20IP	3.84	0.15	49	1.93	615 820 303 0
20IP	3.84	0.15	70	2.76	615 820 304 0
20IP	3.84	0.15	90	3.54	615 820 305 0*
20IP	3.84	0.15	152	5.98	615 820 306 0
25IP	4.40	0.17	49	1.93	615 820 282 0*
25IP	4.40	0.17	70	2.76	615 820 283 0*
25IP	4.40	0.17	90	3.54	615 820 284 0*
25IP	4.40	0.17	152	5.98	615 820 285 0*
27IP	4.96	0.20	49	1.93	615 820 289 0
27IP	4.96	0.20	70	2.76	615 820 290 0*
27IP	4.96	0.20	90	3.54	615 820 291 0*
27IP	4.96	0.20	152	5.98	615 820 292 0*
30IP	5.49	0.22	49	1.93	615 820 297 0*
30IP	5.49	0.22	70	2.76	615 820 298 0*
30IP	5.49	0.22	90	3.54	615 820 299 0*
30IP	5.49	0.22	152	5.98	615 820 300 0
40IP	6.60	0.26	49	1.93	615 820 307 0*
40IP	6.60	0.26	70	2.76	615 820 308 0*
40IP	6.60	0.26	90	3.54	615 820 309 0*
40IP	6.60	0.26	152	5.98	615 820 310 0

\* Production upon your order.



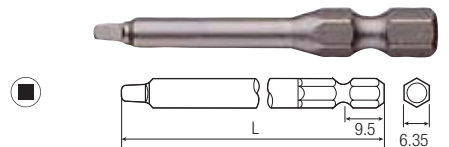
## Torx Tamper Proof

T	A		LENGTH L		PART NO
	mm	in	mm	in	
T10H	2.72	0.11	49	1.93	615 820 196 0
T10H	2.72	0.11	70	2.76	615 820 198 0
T20H	3.84	0.15	49	1.93	615 820 197 0
T20H	3.84	0.15	70	2.76	615 820 199 0

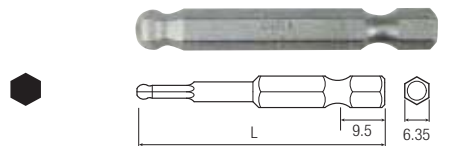


## Finder Sleeve Combined

W	t		screw head	LENGTH L		PART NO
	mm	in		mm	in	
4.90	0.91	0.04	4-5	95	3.74	111062
0.91	0.91	0.04	5-6	95	3.74	615 820 503 0
6.12	0.97	0.04	6-8	95	3.74	111072
7.37	1.07	0.04	8-10	95	3.74	615 804 741 0
8.89	1.17	0.05	10-12	95	3.74	615 804 742 0
10.03	1.27	0.05	12-14	98	3.86	615 804 743 0

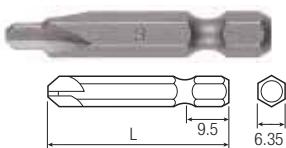


SQ	LENGTH L		PART NO
	mm	in	
1 (3/32")	70	2.76	615 820 500 0
2 (1/8")	70	2.76	615 820 501 0
3 (9/64")	70	2.76	615 820 502 0



## Ball Point

H	LENGTH L		PART NO
	mm	in	
H2	50	1.97	615 820 202 0
H2.5	50	1.97	615 820 203 0
H3	50	1.97	615 820 204 0
H4	50	1.97	615 820 205 0
H5	50	1.97	615 820 206 0
H6	50	1.97	615 820 207 0
H8	50	1.97	615 820 208 0



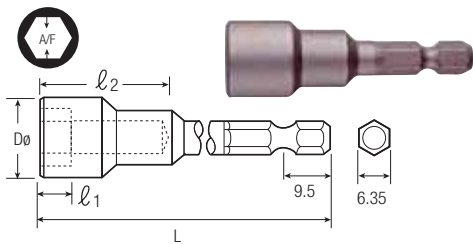
TW	LENGTH L		PART NO
	mm	in	
TW2	40	1.57	615 820 021 0
TW3	40	1.57	615 820 022 0
TW4	40	1.57	615 820 023 0
TW5	40	1.57	615 820 024 0

# Nut setters

Drive: 1/4" = 6.35mm  
Hex drive - DIN3126-E6.3

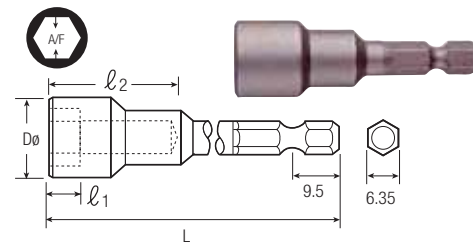


## Non magnetic nut setters



A/F		Dø		l1		l2		LENGTH L		PART NO
mm	in	mm	in	mm	in	mm	in	mm	in	10 pcs
3	0.1	-	-	-	-	-	-	65	2.6	909 201 145 1
3.5	0.1	-	-	-	-	-	-	65	2.6	909 201 151 1
4.0	0.2	8.0	0.3	3.0	0.1	15.0	0.6	50	2.0	615 820 573 0
4.0	0.2	8.0	0.3	3.0	0.1	25.0	1.0	75	3.0	615 820 586 0
4.0	0.2	8.0	0.3	3.0	0.1	25.0	1.0	100	3.9	615 820 599 0
4.5	0.2	8.0	0.3	3.0	0.1	15.0	0.6	50	2.0	615 820 574 0*
4.5	0.2	8.0	0.3	3.0	0.1	25.0	1.0	75	3.0	615 820 587 0*
4.5	0.2	8.0	0.3	3.0	0.1	25.0	1.0	100	3.9	615 820 600 0
5.0	0.2	8.5	0.3	3.5	0.1	15.0	0.6	50	2.0	615 820 575 0*
5.0	0.2	8.5	0.3	3.5	0.1	25.0	1.0	75	3.0	615 820 588 0
5.0	0.2	8.5	0.3	3.5	0.1	25.0	1.0	100	3.9	615 820 601 0
5.0	0.2	8.5	0.3	3.5	0.1	25.0	1.0	150	5.9	615 820 210 0
5.5	0.2	9.0	0.4	3.5	0.1	15.0	0.6	50	2.0	615 820 576 0
5.5	0.2	9.0	0.4	3.5	0.1	25.0	1.0	75	3.0	615 820 589 0
5.5	0.2	9.0	0.4	3.5	0.1	25.0	1.0	100	3.9	615 820 602 0
5.5	0.2	9.0	0.4	3.5	0.1	25.0	1.0	150	5.9	615 820 211 0
6.0	0.2	10.0	0.4	4.0	0.2	15.0	0.6	50	2.0	615 820 577 0
6.0	0.2	10.0	0.4	4.0	0.2	25.0	1.0	75	3.0	615 820 590 0
6.0	0.2	10.0	0.4	4.0	0.2	25.0	1.0	100	3.9	615 820 603 0
6.0	0.2	10.0	0.4	4.0	0.2	25.0	1.0	150	5.9	615 820 212 0
7.0	0.3	13.0	0.5	5.0	0.2	15.0	0.6	50	2.0	615 820 578 0
7.0	0.3	13.0	0.5	5.0	0.2	25.0	1.0	75	3.0	615 820 591 0
7.0	0.3	13.0	0.5	5.0	0.2	25.0	1.0	100	3.9	615 820 604 0
7.0	0.3	13.0	0.5	5.0	0.2	25.0	1.0	150	5.9	615 820 213 0
8.0	0.3	13.0	0.5	5.0	0.2	15.0	0.6	50	2.0	615 820 579 0
8.0	0.3	13.0	0.5	5.0	0.2	30.0	1.2	75	3.0	615 820 592 0
8.0	0.3	13.0	0.5	5.0	0.2	30.0	1.2	100	3.9	615 820 605 0
8.0	0.3	13.0	0.5	5.0	0.2	30.0	1.2	150	5.9	615 820 214 0
9.0	0.4	14.0	0.6	5.5	0.2	15.0	0.6	50	2.0	615 820 580 0
9.0	0.4	14.0	0.6	5.5	0.2	30.0	1.2	75	3.0	615 820 593 0
9.0	0.4	14.0	0.6	5.5	0.2	30.0	1.2	100	3.9	615 820 606 0
10.0	0.4	16.0	0.6	6.5	0.3	15.0	0.6	50	2.0	615 820 581 0
10.0	0.4	16.0	0.6	6.5	0.3	30.0	1.2	75	3.0	615 820 594 0
10.0	0.4	16.0	0.6	6.5	0.3	30.0	1.2	100	3.9	615 820 607 0
10.0	0.4	16.0	0.6	6.5	0.3	30.0	1.2	150	5.9	615 820 215 0
11.0	0.4	17.0	0.7	7.0	0.3	15.0	0.6	50	2.0	615 820 582 0
11.0	0.4	17.0	0.7	7.0	0.3	30.0	1.2	75	3.0	615 820 595 0
11.0	0.4	17.0	0.7	7.0	0.3	30.0	1.2	100	3.9	615 820 608 0
12.0	0.5	18.0	0.7	7.5	0.3	15.0	0.6	50	2.0	615 820 583 0
12.0	0.5	18.0	0.7	7.5	0.3	30.0	1.2	75	3.0	615 820 596 0
12.0	0.5	18.0	0.7	7.5	0.3	30.0	1.2	100	3.9	615 820 609 0
12.0	0.5	18.0	0.7	7.5	0.3	30.0	1.2	150	5.9	615 820 216 0
13.0	0.5	19.0	0.7	8.0	0.3	15.0	0.6	50	2.0	615 820 584 0
13.0	0.5	19.0	0.7	8.0	0.3	30.0	1.2	75	3.0	615 820 597 0
13.0	0.5	19.0	0.7	8.0	0.3	30.0	1.2	100	3.9	615 820 610 0
13.0	0.5	19.0	0.7	8.0	0.3	30.0	1.2	150	5.9	615 820 217 0
14.0	0.6	20.0	0.8	8.0	0.3	15.0	0.6	50	2.0	615 820 585 0
14.0	0.6	20.0	0.8	8.0	0.3	30.0	1.2	75	3.0	615 820 598 0
14.0	0.6	20.0	0.8	8.0	0.3	30.0	1.2	100	3.9	615 820 611 0

## Magnetic nut setters

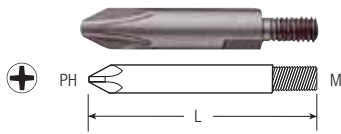


A/F		Dø		l1		LENGTH L		PART NO
mm	in	mm	in	mm	in	mm	in	10 pcs
5.0	0.2	8.5	0.3	3.5	0.1	50	2.0	615 820 612 0
5.0	0.2	8.5	0.3	3.5	0.1	75	3.0	615 820 623 0
5.0	0.2	8.5	0.3	3.5	0.1	100	3.9	615 820 634 0
5.0	0.2	8.5	0.3	3.5	0.1	150	5.9	615 820 218 0
5.5	0.2	9.0	0.4	3.5	0.1	50	2.0	615 820 613 0
5.5	0.2	9.0	0.4	3.5	0.1	75	3.0	615 820 624 0*
5.5	0.2	9.0	0.4	3.5	0.1	100	3.9	615 820 635 0*
5.5	0.2	9.0	0.4	3.5	0.1	150	5.9	615 820 219 0*
6.0	0.2	10.0	0.4	4.0	0.2	50	2.0	615 820 614 0
6.0	0.2	10.0	0.4	4.0	0.2	75	3.0	615 820 625 0
6.0	0.2	10.0	0.4	4.0	0.2	100	3.9	615 820 636 0
6.0	0.2	10.0	0.4	4.0	0.2	150	5.9	615 820 220 0
7.0	0.3	13.0	0.5	4.5	0.2	50	2.0	615 820 615 0
7.0	0.3	13.0	0.5	4.5	0.2	75	3.0	615 820 626 0
7.0	0.3	13.0	0.5	4.5	0.2	100	3.9	615 820 637 0
7.0	0.3	13.0	0.5	5.0	0.2	150	5.9	615 820 221 0
8.0	0.3	13.0	0.5	5.0	0.2	50	2.0	615 820 616 0
8.0	0.3	13.0	0.5	5.0	0.2	75	3.0	615 820 627 0
8.0	0.3	13.0	0.5	5.0	0.2	100	3.9	615 820 638 0
8.0	0.3	13.0	0.5	5.0	0.2	150	5.9	615 820 222 0
9.0	0.4	14.0	0.6	5.5	0.2	50	2.0	615 820 617 0
9.0	0.4	14.0	0.6	5.5	0.2	75	3.0	615 820 628 0
9.0	0.4	14.0	0.6	5.5	0.2	100	3.9	615 820 639 0
10.0	0.4	16.0	0.6	6.5	0.3	50	2.0	615 820 618 0
10.0	0.4	16.0	0.6	6.5	0.3	75	3.0	615 820 629 0
10.0	0.4	16.0	0.6	6.5	0.3	100	3.9	615 820 640 0
10.0	0.4	16.0	0.6	6.5	0.3	150	5.9	615 820 223 0
11.0	0.4	17.0	0.7	7.0	0.3	50	2.0	615 820 619 0
11.0	0.4	17.0	0.7	7.0	0.3	75	3.0	615 820 630 0
11.0	0.4	17.0	0.7	7.0	0.3	100	3.9	615 820 641 0
12.0	0.5	18.0	0.7	7.5	0.3	50	2.0	615 820 620 0
12.0	0.5	18.0	0.7	7.5	0.3	75	3.0	615 820 631 0
12.0	0.5	18.0	0.7	7.5	0.3	100	3.9	615 820 642 0
12.0	0.5	18.0	0.7	7.5	0.3	150	5.9	615 820 224 0
13.0	0.5	19.0	0.7	8.0	0.3	50	2.0	615 820 621 0
13.0	0.5	19.0	0.7	8.0	0.3	75	3.0	615 820 632 0
13.0	0.5	19.0	0.7	8.0	0.3	100	3.9	615 820 643 0
13.0	0.5	19.0	0.7	8.0	0.3	150	5.9	615 820 225 0
14.0	0.6	20.0	0.8	8.0	0.3	50	2.0	615 820 622 0
14.0	0.6	20.0	0.8	8.0	0.3	75	3.0	615 820 633 0
14.0	0.6	20.0	0.8	8.0	0.3	100	3.9	615 820 644 0

\* Production upon your order.

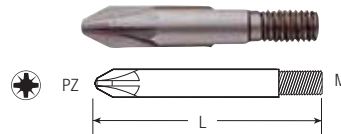
# Screw shanks

## Screw shank driver bit

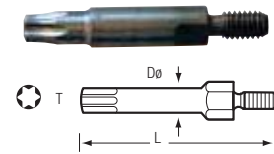


PH	M	LENGTH L		PART NO
		mm	in	
1	M4	34	1.34	615 820 653 0
2	M4	34	1.34	615 820 654 0
2	M5	34	1.34	615 820 657 0

\* Production upon your order.



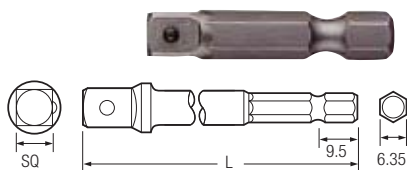
PZ	M	LENGTH L		PART NO
		mm	in	
1	M4	34	1.34	615 820 655 0
2	M4	34	1.34	615 820 656 0
2	M5	34	1.34	615 820 658 0



T	M	Dø		LENGTH L		PART NO
		mm	in	mm	in	
T10	M4	6	0.24	33	1.3	105782
T20	M4	6	0.24	33	1.3	105802
T15	M5	7	0.28	33	1.3	105842
T20	M5	7	0.28	33	1.3	105852
T25	M5	7	0.28	33	1.3	105862
T30	M5	7	0.28	33	1.3	105882

# Adapters

Drive: 1/4" = 6.35mm Hex drive - DIN3126-E6.3



SQ	LENGTH L		PART NO
	mm	in	
1/4"	35	1.38	95352
1/4"	51	2.01	615 820 508 0
1/4"	76	2.99	615 820 509 0
1/4"	102	4.02	615 820 510 0
1/4"	152	5.98	615 820 511 0
3/8"	43	1.69	95362
3/8"	51	2.01	615 820 512 0
3/8"	76	2.99	615 820 513 0
3/8"	102	4.02	615 820 514 0
3/8"	152	5.98	615 820 515 0

# Bits holders

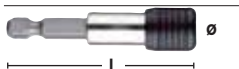
Drive: 1/4" = 6.35mm  
Hex drive - DIN3126-C6.3



	TIP SIZE	LENGTH L		MAGNETIC	PART NO
		mm	in		
	T10	33	1.30	yes	615 820 247 0
	T15	33	1.30	yes	615 820 245 0
	T20	33	1.30	yes	615 820 246 0
	T25	33	1.30	yes	615 820 253 0
	PH1	33	1.30	yes	615 820 248 0
	PH2	33	1.30	yes	615 820 249 0
	PZ1	33	1.30	yes	615 820 250 0
	PZ2	33	1.30	yes	615 820 251 0



	TIP SIZE	LENGTH L		PART NO
		mm	in	
	T10	33	1.30	615 820 332 0
	T10	49	1.93	615 820 340 0
	T10	70	2.76	615 820 341 0
	T15	33	1.30	615 820 333 0
	T15	49	1.93	615 820 702 0
	T15	70	2.76	615 820 703 0
	T20	33	1.30	615 820 334 0
	T20	49	1.93	615 820 342 0
	T20	75	2.95	615 820 343 0
	T20	150	5.91	615 820 344 0
	T25	33	1.30	615 820 335 0
	T25	49	1.93	615 820 704 0
	T25	70	2.76	615 820 705 0
	PH1	33	1.30	615 820 336 0
	PH2	33	1.30	615 820 337 0
	PZ1	33	1.30	615 820 338 0
	PZ2	33	1.30	615 820 339 0

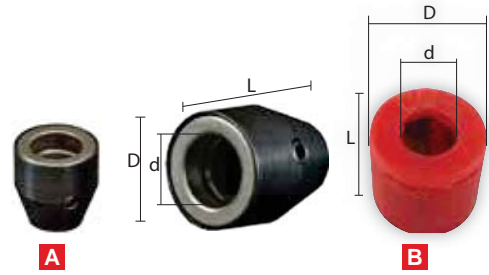


PART NO	TIP SIZE	DRIVE	LENGTH L		DIAMETER Ø		MAGNETIC	DIN 3126-C6.3	DIN 3126-E6.3	DOUBLE ENDED BITS DIN 3126-E6.3	DOUBLE ENDED BITS DIN 3126-C6.3	SPECIFIC BIT
			mm	in	mm	in						
615 820 557 0		5/16"	70	2.8	12.7	0.51	Yes	X				
11502		5/16"	54	2.2	11.1	0.44	Yes	X				
615 820 556 0		5/16"	50	2.0	11.1	0.44	No	X				
615 820 443 0		1/4"	71	2.8	17	0.68	Yes	X				
615 820 444 0		1/4"	65	2.6	16	0.64	Yes	X	X	X		
615 820 404 0		1/4"	60	2.4	11.1	0.44	Yes	X				
615 820 555 0		1/4"	75	3.0	9.1	0.36	Yes			X		
110102		1/4"	150	6.0	11.1	0.44	Yes	X				
615 820 506 0		1/4"	100	4.0	11.1	0.44	Yes	X				
615 820 507 0		1/4"	150	6.0	11.1	0.44	Yes	X				
615 820 402 0		1/4"	60	2.4	11.1	0.44	No			X		
615 820 504 0		1/4"	100	4.0	11.1	0.44	No	X				
615 820 505 0		1/4"	150	6.0	11.1	0.44	No	X				
615 820 405 0		1/4"	62	2.5	14.4	0.58	Yes				X	
615 820 403 0		1/4"	62	2.5	14.4	0.58	No				X	
615 820 254 0	T10	1/4"	49	2.0	-	-	Yes					X
615 820 255 0	T10	1/4"	70	2.8	-	-	Yes					X
615 820 698 0	T15	1/4"	49	2.0	-	-	Yes					X
615 820 699 0	T15	1/4"	70	2.8	-	-	Yes					X
615 820 256 0	T20	1/4"	49	2.0	-	-	Yes					X
615 820 244 0	T20	1/4"	75	3.0	-	-	Yes					X
615 820 252 0	T20	1/4"	150	6.0	-	-	Yes					X
615 820 700 0	T25	1/4"	49	2.0	-	-	Yes					X
615 820 701 0	T25	1/4"	70	2.8	-	-	Yes					X

# Sockets and adaptors range

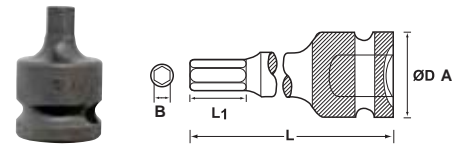
## Ring Magnet Sleeves

PIC REF	Max d		D		L		PART NO
	mm	in	mm	in	mm	in	
A	3.1	0.12	9	0.35	16	0.63	615 811 423 0
	3.8	0.15	9	0.35	16	0.63	615 811 424 0
	4.5	0.18	9	0.35	16	0.63	615 811 425 0
	5	0.2	9	0.35	16	0.63	615 811 426 0
	6.5	0.26	11	0.43	16	0.63	615 811 427 0
	7.1	0.28	14	0.55	16	0.63	615 811 428 0
	8.2	0.32	14	0.55	16	0.63	615 811 429 0
	9.3	0.37	18	0.71	16	0.63	615 811 430 0
	12	0.47	18	0.71	18	0.71	615 811 431 0
	14	0.55	23.5	0.93	18	0.71	615 811 432 0
B	7	0.27	14	0.54	13	0.51	614 804 978 0



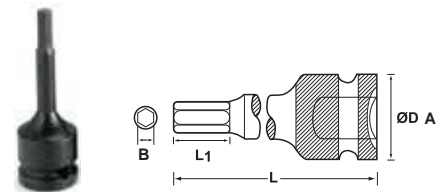
## 3/8" Hexagonal Drives

A	B		L		L1		ØD		PART NO
mm	in	mm	in	mm	in	mm	in		
3/8"	4	0.16	50	1.97	16	0.63	19	0.75	909 201 378 1
3/8"	5	0.2	50	1.97	16	0.63	19	0.75	909 201 381 1
3/8"	6	0.24	50	1.97	16	0.63	19	0.75	909 201 384 1
3/8"	8	0.31	50	1.97	16	0.63	19	0.75	909 201 387 1
3/8"	10	0.39	50	1.97	16	0.63	19	0.75	909 201 390 1



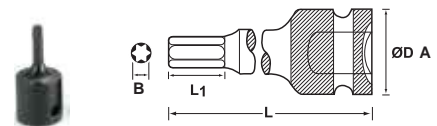
## 1/2" Hexagonal Drives

A	B		L		L1		ØD		PART NO
mm	in	mm	in	mm	in	mm	in		
1/2"	6	0.24	44	1.73	9	0.35	-	-	615 804 042 0
1/2"	6	0.24	78	3.1	9	0.4	25	0.98	615 811 763 0
1/2"	8	0.31	78	3.1	16	0.6	25	0.98	909 201 396 1
1/2"	10	0.39	78	3.1	16	0.6	25	0.98	909 201 399 1
1/2"	14	0.55	78	3.1	20	0.8	25	0.98	909 201 405 1
1/2"	17	0.67	78	3.1	20	0.8	25	0.98	615 811 764 0
1/2"	19	0.75	78	3.1	20	0.8	25	0.98	615 811 765 0



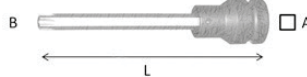
## Internal Torx Drives

A	B	L		L1		ØD		PART NO
mm	in	mm	in	mm	in	mm	in	
3/8"	T20	75	2.95	2.8	0.11	22	0.87	615 811 433 0
3/8"	T25	75	2.95	3	0.12	22	0.87	615 811 434 0
3/8"	T30	75	2.95	3.8	0.15	22	0.87	615 811 435 0
3/8"	T40	75	2.95	3.8	0.15	22	0.87	615 811 436 0
1/2"	T40	75	2.95	3.8	0.15	25	0.98	615 811 437 0



# Socket and adaptors range

## Bit Holders



BIT SIZE	A	B	L		PART NO
			mm	in	
C6,3	1/4"	T15	40	1.57	615 811 438 0
C6,3	1/4"	T20	40	1.57	615 811 439 0
C6,3	1/4"	T25	40	1.57	615 811 440 0
C6,3	1/4"	T30	40	1.57	615 811 441 0
C6,3	1/4"	T40	40	1.57	615 811 442 0
C6,3	1/4"	IN3	40	1.57	615 811 443 0
C6,3	1/4"	IN4	40	1.57	615 811 444 0
C6,3	1/4"	IN5	40	1.57	615 811 445 0
C6,3	1/4"	IN6	40	1.57	615 811 446 0
C6,3	1/4"	IN7	40	1.57	615 811 447 0
C6,3	1/4"	IN8	40	1.57	615 811 448 0
C6,3	1/4"	IN10	40	1.57	615 811 449 0
C6,3	1/4"	XZN3	40	1.57	615 811 450 0
C6,3	1/4"	XZN4	40	1.57	615 811 451 0
C6,3	1/4"	XZN5	40	1.57	615 811 452 0
C6,3	1/4"	XZN6	40	1.57	615 811 453 0
C6,3	1/4"	XZN8	40	1.57	615 811 454 0
C6,3	1/4"	T15	85	3.35	615 811 455 0
C6,3	1/4"	T20	85	3.35	615 811 456 0
C6,3	1/4"	T25	85	3.35	615 811 457 0
C6,3	1/4"	T30	85	3.35	615 811 458 0
C6,3	1/4"	T40	85	3.35	615 811 459 0
C6,3	1/4"	T45	85	3.35	615 811 460 0
C6,3	1/4"	T50	85	3.35	615 811 461 0
C6,3	1/4"	T55	85	3.35	615 811 462 0
C6,3	1/4"	IN3	85	3.35	615 811 463 0
C6,3	1/4"	IN4	85	3.35	615 811 464 0
C6,3	1/4"	IN5	85	3.35	615 811 465 0
C6,3	1/4"	IN6	85	3.35	615 811 666 0
C6,3	1/4"	IN8	85	3.35	615 811 467 0
C6,3	3/8"	T20	40	1.57	615 811 468 0
C6,3	3/8"	T25	40	1.57	615 811 469 0
C6,3	3/8"	T30	40	1.57	615 811 470 0
C6,3	3/8"	T40	40	1.57	615 811 471 0
C6,3	3/8"	IN3	40	1.57	615 811 472 0
C6,3	3/8"	IN4	40	1.57	615 811 473 0
C6,3	3/8"	IN5	40	1.57	615 811 474 0
C6,3	3/8"	IN6	40	1.57	615 811 475 0
C6,3	3/8"	IN7	40	1.57	615 811 476 0
C6,3	3/8"	IN8	40	1.57	615 811 477 0

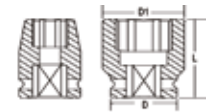
BIT SIZE	A	B	L		PART NO
			mm	in	
C6,3	3/8"	IN10	40	1.57	615 811 478 0
C6,3	3/8"	XZN3	40	1.57	615 811 479 0
C6,3	3/8"	XZN4	40	1.57	615 811 480 0
C6,3	3/8"	XZN5	40	1.57	615 811 481 0
C6,3	3/8"	XZN6	40	1.57	615 811 482 0
C6,3	3/8"	XZN8	40	1.57	615 811 483 0
C6,3	3/8"	T20	85	3.35	615 811 484 0
C6,3	3/8"	T25	85	3.35	615 811 485 0
C6,3	3/8"	T30	85	3.35	615 811 486 0
C6,3	3/8"	T40	85	3.35	615 811 487 0
C6,3	3/8"	T45	85	3.35	615 811 488 0
C6,3	3/8"	T50	85	3.35	615 811 489 0
C6,3	3/8"	T55	85	3.35	615 811 490 0
C6,3	3/8"	IN3	85	3.35	615 811 491 0
C6,3	3/8"	IN4	85	3.35	615 811 492 0
C6,3	3/8"	IN5	85	3.35	615 811 493 0
C6,3	3/8"	IN6	85	3.35	615 811 494 0
C6,3	3/8"	IN8	85	3.35	615 811 495 0
C6,3	1/2"	T40	48	1.89	615 811 496 0
C6,3	1/2"	IN8	48	1.89	615 811 497 0
C6,3	1/2"	IN10	48	1.89	615 811 498 0
C6,3	1/2"	XZN8	48	1.89	615 811 499 0
C8	3/8"	IN4	45	1.77	615 811 5000
C8	3/8"	IN5	45	1.77	615 811 5010
C8	3/8"	IN6	45	1.77	615 811 5020
C8	3/8"	IN7	45	1.77	615 811 5030
C8	3/8"	IN8	45	1.77	615 811 5040
C8	3/8"	IN10	45	1.77	615 811 5050
C8	3/8"	T20	50	1.97	615 811 5060
C8	3/8"	T25	50	1.97	615 811 5070
C8	3/8"	T30	50	1.97	615 811 5080
C8	3/8"	T40	50	1.97	615 811 5090
C8	3/8"	T45	50	1.97	615 811 5100
C8	3/8"	T20	66	2.6	615 811 5110
C8	3/8"	T25	66	2.6	615 811 5120
C8	3/8"	T30	66	2.6	615 811 5130
C8	1/2"	IN7	54	2.13	615 811 5150
C8	1/2"	IN8	54	2.13	615 811 5160
C8	1/2"	IN10	54	2.13	615 811 5170
C8	1/2"	T40	59	2.32	615 811 5180
C8	1/2"	T45	59	2.32	615 811 5190
C8	1/2"	T50	59	2.32	615 811 5200
C8	1/2"	T55	59	2.32	615 811 5210
C8	1/2"	T60	59	2.32	615 811 5220
C8	1/2"	XZN10	59	2.32	615 811 5230
C8	1/2"	XZN12	59	2.32	615 811 5240

# Sockets and adaptors range

## 1/4" = 6.35mm Square Drive Sockets

### 1/4" Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S2055M	5.5	0.22	A	13	0.51	9.4	0.37	23.1	0.91	894 016 367 5
S208M	8	0.31	A	13	0.51	12.2	0.48	23.1	0.91	894 016 367 8
S209M	9	0.35	B	13	0.51	13.7	0.54	23.1	0.91	894 016 367 9
S210M	10	0.39	B	13	0.51	14.7	0.58	23.1	0.91	894 016 368 0
S211M	11	0.43	B	13	0.51	16.0	0.63	23.1	0.91	894 016 368 1
S212M	12	0.47	B	13	0.51	17.0	0.67	23.1	0.91	894 016 368 2
S213M	13	0.51	B	13	0.51	18.8	0.74	23.1	0.91	894 016 368 3
S214M	14	0.55	B	13	0.51	20.1	0.79	23.1	0.91	894 016 368 4
S215M	15	0.59	B	13	0.51	21.1	0.83	23.1	0.91	894 016 368 5

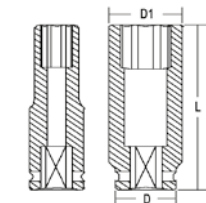


A

B

### 1/4" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S205MD	5	1.3	A	13	0.51	8.6	0.34	50.0	1.97	894 016 369 8
S2055MD	5.5	1.4	A	13	0.51	9.4	0.37	50.0	1.97	894 016 369 9
S207MD	7	1.8	A	13	0.51	11.2	0.44	50.0	1.97	894 016 370 1
S208MD	8	2	A	13	0.51	12.2	0.48	50.0	1.97	894 016 370 2
S209MD	9	2.3	B	13	0.51	13.7	0.54	50.0	1.97	894 016 370 3
S210MD	10	2.5	B	13	0.51	14.7	0.58	50.0	1.97	894 016 370 4
S213MD	13	3.3	B	13	0.51	18.8	0.74	50.0	1.97	894 016 370 7

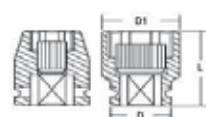


A

B

### 1/4" Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S2055MG	5.5	1.4	A	13	0.51	9.4	0.37	23.1	0.91	894 016 369 8
S206MG	6	1.5	A	13	0.51	9.9	0.39	23.1	0.91	894 016 369 9
S208MG	8	2	A	13	0.51	12.2	0.48	23.1	0.91	894 016 370 1
S210MG	10	2.5	B	13	0.51	14.5	0.57	23.1	0.91	894 016 370 2
S212MG	12	3	B	13	0.51	17.0	0.67	23.1	0.91	894 016 370 3
S214MG	14	3.5	B	13	0.51	20.0	0.79	23.1	0.91	894 016 370 4

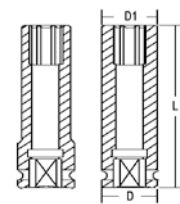


A

B

### 1/4" Deep Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S206MDG	6	0.24	A	13	0.51	9.9	0.39	50.0	1.97	894 016 376 3
S208MDG	8	0.31	A	13	0.51	12.2	0.48	50.0	1.97	894 016 376 5
S210MDG	10	0.39	B	13	0.51	14.5	0.57	50.0	1.97	894 016 376 7
S213MDG	13	0.51	B	13	0.51	18.8	0.74	50.0	1.97	894 016 377 0



A

B

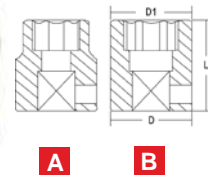


# Socket and adaptors range

## 3/8" = 9.52mm Square Drive Sockets

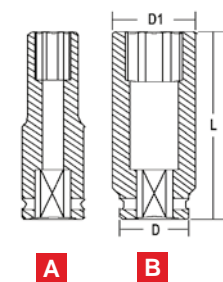
### 3/8" Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S307M	7	0.28	A	19.0	0.75	11.4	0.45	29.5	1.16	894 016 378 5
S308M	8	0.31	A	19.0	0.75	12.7	0.5	29.5	1.16	894 016 378 6
S310M	10	0.39	A	19.0	0.75	15.2	0.6	29.5	1.16	894 016 378 8
S311M	11	0.43	A	19.0	0.75	17.0	0.67	29.5	1.16	894 016 378 9
S312M	12	0.47	B	19.0	0.75	19.0	0.75	29.5	1.16	894 016 379 0
S313M	13	0.51	B	19.0	0.75	19.0	0.75	29.5	1.16	894 016 379 1
S314M	14	0.55	B	20.0	0.79	20.0	0.79	29.5	1.16	894 016 379 2
S315M	15	0.59	B	22.1	0.87	22.1	0.87	29.5	1.16	894 016 379 3
S316M	16	0.63	B	23.6	0.93	23.6	0.93	30.0	1.18	894 016 379 4
S317M	17	0.67	B	23.9	0.94	23.9	0.94	30.0	1.18	894 016 379 5
S318M	18	0.71	B	24.9	0.98	24.9	0.98	30.0	1.18	894 016 379 6
S319M	19	0.75	B	25.9	1.02	25.9	1.02	30.0	1.18	894 016 379 7
S320M	20	0.79	B	27.9	1.1	27.9	1.1	30.0	1.18	894 016 379 8
S321M	21	0.83	B	27.9	1.1	27.9	1.1	30.0	1.18	894 016 379 9
S322M	22	0.87	B	30.0	1.18	30.0	1.18	30.0	1.18	894 016 380 0



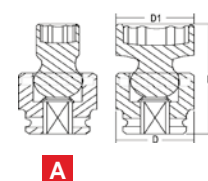
### 3/8" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S307MD	7	0.28	A	19.0	0.75	11.4	0.45	65.0	2.56	894 016 381 3
S308MD	8	0.31	A	19.0	0.75	12.7	0.50	65.0	2.56	894 016 381 4
S309MD	9	0.35	A	19.0	0.75	14.0	0.55	65.0	2.56	894 016 381 5
S310MD	10	0.39	A	19.0	0.75	15.2	0.60	65.0	2.56	894 016 381 6
S311MD	11	0.43	A	19.0	0.75	17.0	0.67	65.0	2.56	894 016 381 7
S312MD	12	0.47	B	19.0	0.75	19.0	0.75	65.0	2.56	894 016 381 8
S313MD	13	0.51	B	19.0	0.75	19.0	0.75	65.0	2.56	894 016 381 9
S314MD	14	0.55	B	20.0	0.79	20.0	0.79	65.0	2.56	894 016 382 0
S315MD	15	0.59	B	22.1	0.87	22.1	0.87	65.0	2.56	894 016 382 1
S316MD	16	0.63	B	23.6	0.93	23.6	0.93	65.0	2.56	894 016 382 2
S317MD	17	0.67	B	23.9	0.94	23.9	0.94	65.0	2.56	894 016 382 3
S318MD	18	0.71	B	24.9	0.98	24.9	0.98	65.0	2.56	894 016 382 4
S319MD	19	0.75	B	25.9	1.02	25.9	1.02	65.0	2.56	894 016 382 5
S320MD	20	0.79	B	27.9	1.1	27.9	1.10	65.0	2.56	894 016 382 6
S321MD	21	0.83	B	27.9	1.1	27.9	1.10	65.0	2.56	894 016 382 7



### 3/8" Universal

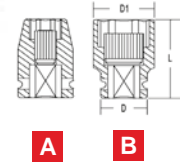
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S310MU	10	0.39	A	26.9	1.06	15.0	0.59	55.1	2.17	894 016 384 3
S310MDU	10	0.39	A	26.9	1.06	15.0	0.59	80.0	3.15	894 016 387 0
S313MU	13	0.51	A	26.9	1.06	19.0	0.75	55.1	2.17	894 016 384 6
S314MU	14	0.55	A	26.9	1.06	21.0	0.83	55.1	2.17	894 016 384 7
S315MU	15	0.59	A	26.9	1.06	22.1	0.87	55.1	2.17	894 016 384 8
S317MU	17	0.67	A	26.9	1.06	24.9	0.98	55.1	2.17	894 016 385 0



# Sockets and adaptors range

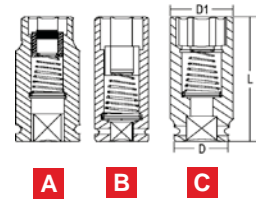
## 3/8" Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S308MG	8	0.31	A	19.0	0.75	12.7	0.5	29.5	1.16	894 016 389 3
S310MG	10	0.39	A	19.0	0.75	15.2	0.6	29.5	1.16	894 016 389 5
S311MG	11	0.43	A	19.0	0.75	17.0	0.7	29.5	1.16	894 016 389 6
S312MG	12	0.47	A	19.0	0.75	18.0	0.7	29.5	1.16	894 016 389 7
S313MG	13	0.51	A	22.1	0.87	19.3	0.8	29.5	1.16	894 016 389 8
S314MG	14	0.55	A	22.1	0.87	20.3	0.8	29.5	1.16	894 016 389 9
S316MG	16	0.63	B	22.1	0.87	23.6	0.9	30	1.18	894 016 390 1
S317MG	17	0.67	B	22.1	0.87	24.9	1.0	30	1.18	894 016 390 2



## 3/8" Deep Magnetic

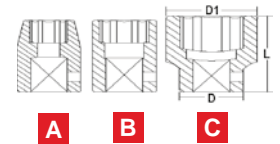
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S307MDG	7	0.28	A	19.0	0.75	11.4	0.45	63	2.5	894 016 391 4
S308MDG	8	0.31	A	19.0	0.75	12.7	0.5	63	2.5	894 016 391 5
S310MDG	10	0.39	A	19.0	0.75	15.2	0.6	63	2.5	894 016 391 7
S312MDG	12	0.47	A	18.8	0.74	18.0	0.71	63	2.5	894 016 391 9
S313MDG	13	0.51	B	19.0	0.75	18.8	0.74	63	2.5	894 016 392 0
S314MDG	14	0.55	C	19.0	0.75	20.1	0.79	63	2.5	894 016 392 1
S317MDG	17	0.67	C	22.1	0.87	24.9	0.98	63	2.5	894 016 392 4
S319MDG	19	0.75	C	22.1	0.87	26.9	1.06	63	2.5	894 016 392 6



## 1/2" = 12.7mm Square Drive Sockets

### 1/2" Standard

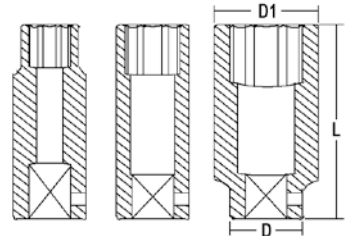
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S408M	8	0.31	A	22.1	0.87	14.5	0.57	38.1	1.5	894 016 395 0
S409M	9	0.35	A	22.1	0.87	15.5	0.61	38.1	1.5	894 016 395 1
S410M	10	0.39	A	22.1	0.87	16.8	0.66	38.1	1.5	894 016 395 2
S411M	11	0.43	A	22.1	0.87	18.0	0.71	38.1	1.5	894 016 395 3
S412M	12	0.47	A	22.1	0.87	19.0	0.75	38.1	1.5	894 016 395 4
S413M	13	0.51	A	23.8	0.94	20.3	0.8	38.1	1.5	894 016 395 5
S414M	14	0.55	A	23.8	0.94	21.6	0.85	38.1	1.5	894 016 395 6
S415M	15	0.59	A	24.9	0.98	23.1	0.91	38.1	1.5	894 016 395 7
S416M	16	0.63	B	24.9	0.98	24.9	0.98	38.1	1.5	894 016 395 8
S417M	17	0.67	B	25.9	1.02	25.9	1.02	38.1	1.5	894 016 395 9
S418M	18	0.71	B	26.4	1.04	26.4	1.04	38.1	1.5	894 016 396 0
S419M	19	0.75	B	27.9	1.1	27.9	1.1	38.1	1.5	894 016 396 1
S420M	20	0.79	B	30.0	1.18	30.0	1.18	38.1	1.5	894 016 396 2
S421M	21	0.83	B	30.0	1.18	30.0	1.18	38.1	1.5	894 016 396 3
S422M	22	0.87	B	32.0	1.26	32.0	1.26	38.1	1.5	894 016 396 4
S423M	23	0.91	B	32.0	1.26	32.0	1.26	38.1	1.5	894 016 396 5
S424M	24	0.94	B	34.0	1.34	34.0	1.34	38.1	1.5	894 016 396 6
S425M	25	0.98	B	36.0	1.42	36.0	1.42	38.1	1.5	894 016 396 7
S426M	26	1.02	B	36.0	1.42	36.0	1.42	38.1	1.5	894 016 396 8
S427M	27	1.06	B	38.1	1.5	38.1	1.5	39.9	1.57	894 016 396 9
S428M	28	1.10	B	39.8	1.57	39.9	1.57	39.9	1.57	894 016 397 0
S429M	29	1.14	B	39.8	1.57	39.9	1.57	39.9	1.57	894 016 397 1
S430M	30	1.18	C	38.1	1.5	41.9	1.65	39.9	1.57	894 016 397 2
S431M	31	1.22	C	38.1	1.5	43.9	1.73	39.9	1.57	894 016 397 3
S432M	32	1.26	C	38.1	1.5	43.9	1.73	39.9	1.57	894 016 397 4



# Socket and adaptors range

## 1/2" Deep

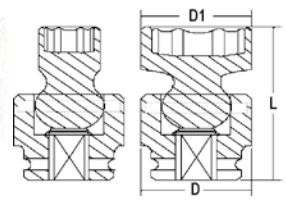
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	D	D1		D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S408MD	8	0.31	A	22.1	0.87	14.5	0.57	78.0	3.07	894 016 399 8
S409MD	9	0.35	A	22.1	0.87	15.5	0.61	78.0	3.07	894 016 399 9
S410MD	10	0.39	A	22.1	0.87	16.8	0.66	78.0	3.07	894 016 400 0
S411MD	11	0.43	A	22.1	0.87	18.0	0.71	78.0	3.07	894 016 400 1
S412MD	12	0.47	A	22.1	0.87	19.0	0.75	78.0	3.07	894 016 400 2
S413MD	13	0.51	A	23.9	0.94	20.3	0.8	78.0	3.07	894 016 400 3
S414MD	14	0.55	A	23.9	0.94	21.6	0.85	78.0	3.07	894 016 400 4
S415MD	15	0.59	B	23.9	0.94	23.9	0.94	78.0	3.07	894 016 400 5
S416MD	16	0.63	B	24.9	0.98	24.9	0.98	78.0	3.07	894 016 400 6
S417MD	17	0.67	B	25.9	1.02	25.9	1.02	78.0	3.07	894 016 400 7
S418MD	18	0.71	B	25.9	1.02	25.9	1.02	78.0	3.07	894 016 400 8
S419MD	19	0.75	B	27.9	1.1	27.9	1.1	78.0	3.07	894 016 400 9
S420MD	20	0.79	B	30.0	1.18	30.0	1.18	78.0	3.07	894 016 772 2
S421MD	21	0.83	B	30.0	1.18	30.0	1.18	78.0	3.07	894 016 401 0
S422MD	22	0.87	B	32.0	1.26	32.0	1.26	78.0	3.07	894 016 772 3
S423MD	23	0.91	B	32.0	1.26	32.0	1.26	78.0	3.07	894 016 772 4
S424MD	24	0.94	B	34.0	1.34	34.0	1.34	78.0	3.07	894 016 772 5
S425MD	25	0.98	B	36.1	1.42	36.1	1.42	78.0	3.07	894 016 772 6
S426MD	26	1.02	B	36.1	1.42	36.1	1.42	78.0	3.07	894 016 401 1
S427MD	27	1.06	B	38.1	1.5	38.1	1.5	78.0	3.07	894 016 401 2
S428MD	28	1.1	B	39.9	1.57	39.9	1.57	78.0	3.07	894 016 401 3
S429MD	29	1.14	B	39.9	1.57	39.9	1.57	78.0	3.07	894 016 401 4
S430MD	30	1.18	C	38.1	1.5	41.9	1.65	78.0	3.07	894 016 401 5
S431MD	31	1.22	C	38.1	1.5	43.9	1.73	78.0	3.07	894 016 401 6
S432MD	32	1.26	C	38.1	1.5	43.9	1.73	78.0	3.07	894 016 401 7
S433MD	33	1.3	C	38.1	1.5	45.0	1.77	78.0	3.07	894 016 401 8
S434MD	34	1.34	C	38.1	1.5	46.0	1.81	78.0	3.07	894 016 401 9
S435MD	35	1.38	C	38.1	1.5	50.0	1.97	78.0	3.07	894 016 402 0
S436MD	36	1.42	C	38.1	1.5	50.0	1.97	78.0	3.07	894 016 402 1



A B C

## 1/2" Universal

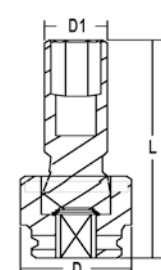
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	D	D1		D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S413MU	13	0.51	A	30.0	1.18	20.1	0.79	65.0	2.56	894 016 404 0
S414MU	14	0.55	A	30.0	1.18	22.1	0.87	65.0	2.56	894 016 404 1
S416MU	16	0.63	A	30.0	1.18	23.1	0.91	65.0	2.56	894 016 404 3
S417MU	17	0.67	A	34.0	1.34	25.9	1.02	65.0	2.56	894 016 404 4
S418MU	18	0.71	A	34.0	1.34	25.9	1.02	65.0	2.56	894 016 404 5
S419MU	19	0.75	A	34.0	1.34	27.9	1.1	65.0	2.56	894 016 404 6
S421MU	21	0.83	A	34.0	1.34	30.0	1.18	65.0	2.56	894 016 404 8
S422MU	22	0.87	A	34.0	1.34	32.0	1.26	65.0	2.56	894 016 404 9
S424MU	24	0.94	A	34.0	1.34	34.0	1.34	65.0	2.56	894 016 405 1
S408U	12,7	1/2"	A	30.0	1.18	19.0	0.75	65.0	2.56	894 016 402 4



A

## 1/2" Deep Universal

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	D	D1		D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S410MDU	10	0.39	A	30.0	1.18	15.0	0.59	89.9	3.54	894 016 406 7
S411MDU	11	0.43	A	30.0	1.18	17.0	0.67	89.9	3.54	894 016 406 8
S412MDU	12	0.47	A	30.0	1.18	19.0	0.75	89.9	3.54	894 016 406 9
S413MDU	13	0.51	A	30.0	1.18	20.0	0.79	89.9	3.54	894 016 407 0
S415MDU	15	0.59	A	30.0	1.18	23.1	0.91	89.9	3.54	894 016 407 2
S416MDU	16	0.63	A	30.0	1.18	23.1	0.91	89.9	3.54	894 016 407 3
S417MDU	17	0.67	A	34.0	1.34	25.9	1.02	89.9	3.54	894 016 407 4
S418MDU	18	0.71	A	34.0	1.34	25.9	1.02	89.9	3.54	894 016 407 5
S419MDU	19	0.75	A	34.0	1.34	27.9	1.1	89.9	3.54	894 016 407 6
S420MDU	20	0.79	A	34.0	1.34	30.0	1.18	89.9	3.54	894 016 407 7
S421MDU	21	0.83	A	34.0	1.34	30.0	1.18	89.9	3.54	894 016 407 8
S422MDU	22	0.87	A	34.0	1.34	32.0	1.26	89.9	3.54	894 016 407 9
S423MDU	23	0.91	A	34.0	1.34	32.0	1.26	89.9	3.54	894 016 408 0

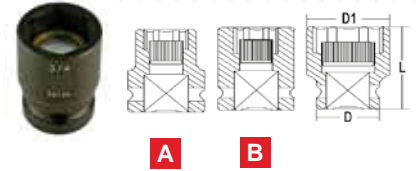


A

# Sockets and adaptors range

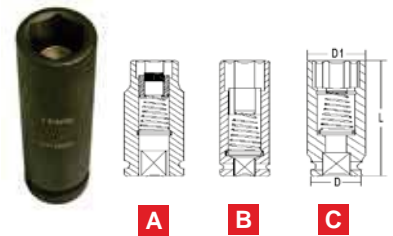
## 1/2" Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	mm	in		D		D1		L		
S411MG	11	0.43	A	24.9	0.98	18.0	0.71	38.1	1.5	894 016 409 4
S412MG	12	0.47	A	24.9	0.98	19.0	0.75	38.1	1.5	894 016 409 5
S414MG	14	0.55	A	24.9	0.98	21.6	0.85	38.1	1.5	894 016 409 7
S416MG	16	0.63	A	29.9	1.18	24.4	0.96	38.1	1.5	894 016 409 9
S417MG	17	0.67	A	29.9	1.18	25.9	1.02	38.1	1.5	894 016 410 0
S418MG	18	0.71	A	29.9	1.18	26.9	1.06	38.1	1.5	894 016 410 1
S419MG	19	0.75	A	29.9	1.18	27.9	1.1	38.1	1.5	894 016 410 2
S421MG	21	0.83	B	29.9	1.18	29.9	1.18	38.1	1.5	894 016 410 4



## 1/2" Deep Magnetic

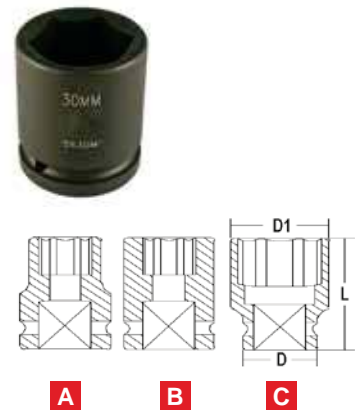
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	mm	in		D		D1		L		
S410MDG	10	0.39	A	24.9	0.98	16.8	0.66	78	3.07	894 016 411 6
S412MDG	12	0.47	A	24.9	0.98	19.0	0.75	78	3.07	894 016 411 8
S413MDG	13	0.51	A	24.9	0.98	20.3	0.8	78	3.07	894 016 411 9
S414MDG	14	0.55	A	24.9	0.98	21.6	0.85	78	3.07	894 016 412 0
S416MDG	16	0.63	B	24.9	0.98	24.9	0.98	78	3.07	894 016 412 2
S419MDG	19	0.75	C	24.9	0.98	27.9	1.1	78	3.07	894 016 412 5
S421MDG	21	0.83	C	24.9	0.98	30	1.18	78	3.07	894 016 412 7



## 3/4" = 19mm Square Drive Sockets

### 3/4" Standard

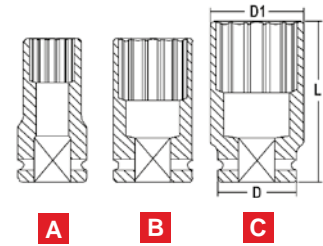
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	mm	in		D		D1		L		
S620M	20	0.79	A	38.1	1.5	31.0	1.22	52.1	2.05	894 016 418 1
S622M	22	0.87	A	38.1	1.5	34.0	1.34	52.1	2.05	894 016 418 3
S623M	23	0.91	A	38.1	1.5	35.0	1.38	52.1	2.05	894 016 418 4
S624M	24	0.94	A	38.1	1.5	36.0	1.42	52.1	2.05	894 016 418 5
S625M	25	0.98	B	38.1	1.5	38.1	1.5	52.1	2.05	894 016 418 6
S626M	26	1.02	B	39.8	1.57	39.9	1.57	52.1	2.05	894 016 418 7
S627M	27	1.06	B	39.8	1.57	39.9	1.57	52.1	2.05	894 016 418 8
S628M	28	1.1	B	41.9	1.65	41.9	1.65	52.1	2.05	894 016 418 9
S629M	29	1.14	B	41.9	1.65	41.9	1.65	52.1	2.05	894 016 419 0
S630M	30	1.18	B	43.9	1.73	43.9	1.73	52.1	2.05	894 016 419 1
S631M	31	1.22	B	43.9	1.73	43.9	1.73	55.9	2.2	894 016 419 2
S632M	32	1.26	B	43.9	1.73	43.9	1.73	55.9	2.2	894 016 419 3
S633M	33	1.3	C	43.9	1.73	47.0	1.85	55.9	2.2	894 016 419 4
S634M	34	1.34	C	43.9	1.73	48	1.89	55.9	2.2	894 016 419 5
S635M	35	1.38	C	43.9	1.73	50.0	1.97	55.9	2.2	894 016 419 6
S636M	36	1.42	C	43.9	1.73	51.0	2.01	55.9	2.2	894 016 419 7
S637M	37	1.46	C	43.9	1.73	52.1	2.05	55.9	2.2	894 016 419 8
S638M	38	1.5	C	43.9	1.73	53.1	2.09	55.9	2.2	894 016 419 9
S640M	40	1.57	C	43.9	1.73	55.9	2.2	62.0	2.44	894 016 420 0
S641M	41	1.61	C	43.9	1.73	57.9	2.28	62.0	2.44	894 016 420 1
S642M	42	1.65	C	43.9	1.73	61.0	2.4	62.0	2.44	894 016 420 2
S643M	43	1.69	C	43.9	1.73	63.0	2.48	63.0	2.48	894 016 420 3
S644M	44	1.73	C	43.9	1.73	65.0	2.56	63.0	2.48	894 016 420 4
S646M	46	1.81	C	43.9	1.73	67.0	2.64	63.0	2.48	894 016 420 5
S650M	50	1.97	C	54.1	2.13	71.1	2.8	71.9	2.83	894 016 420 6



# Socket and adaptors range

## 3/4" Deep

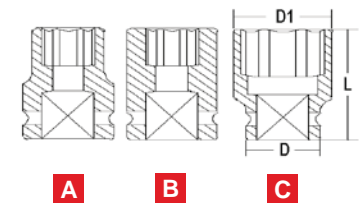
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	mm	in		D		D1		L		
S619MD	19	0.75	A	38.1	1.5	30.0	1.18	85.1	3.35	894 016 424 8
S620MD	20	0.79	A	38.1	1.5	31.0	1.22	85.1	3.35	894 016 424 9
S621MD	21	0.83	A	38.1	1.5	32.0	1.26	85.1	3.35	894 016 425 0
S622MD	22	0.87	A	38.1	1.5	34.0	1.34	85.1	3.35	894 016 425 1
S623MD	23	0.91	A	38.1	1.5	35.0	1.38	85.1	3.35	894 016 425 2
S624MD	24	0.94	A	38.1	1.5	36.0	1.42	85.1	3.35	894 016 425 3
S625MD	25	0.98	B	38.1	1.5	38.1	1.5	85.1	3.35	894 016 425 4
S626MD	26	1.02	B	39.9	1.57	39.9	1.57	85.1	3.35	894 016 425 5
S627MD	27	1.06	B	39.9	1.57	39.9	1.57	85.1	3.35	894 016 425 6
S628MD	28	1.1	B	41.9	1.65	41.9	1.65	85.1	3.35	894 016 425 7
S629MD	29	1.14	B	41.9	1.65	41.9	1.65	85.1	3.35	894 016 425 8
S630MD	30	1.18	B	43.9	1.73	43.9	1.73	85.1	3.35	894 016 425 9
S631MD	31	1.22	B	43.9	1.73	43.9	1.73	85.1	3.35	894 016 426 0
S632MD	32	1.26	B	43.9	1.73	43.9	1.73	85.1	3.35	894 016 426 1
S633MD	33	1.3	C	43.9	1.73	47.0	1.85	85.1	3.35	894 016 426 2
S634MD	34	1.34	C	43.9	1.73	48.0	1.89	85.1	3.35	894 016 426 3
S635MD	35	1.38	C	43.9	1.73	50.0	1.97	85.1	3.35	894 016 426 4
S636MD	36	1.42	C	43.9	1.73	51.0	2.01	85.1	3.35	894 016 426 5
S638MD	38	1.5	C	43.9	1.73	53.1	2.09	85.1	3.35	894 016 426 7
S640MD	40	1.57	C	43.9	1.73	55.9	2.2	85.1	3.35	894 016 426 8
S641MD	41	1.61	C	43.9	1.73	57.9	2.28	85.1	3.35	894 016 426 9
S642MD	42	1.65	C	43.9	1.73	60.1	2.4	85.1	3.35	894 016 427 0
S643MD	43	1.69	C	43.9	1.73	63.0	2.48	95.0	3.74	894 016 427 1
S644MD	44	1.73	C	43.9	1.73	65.0	2.56	95.0	3.74	894 016 427 2
S646MD	46	1.81	C	43.9	1.73	67.1	2.64	95.0	3.74	894 016 427 3
S650MD	50	1.97	C	54.1	2.13	71.1	2.8	95.0	3.74	894 016 427 4



## 1" = 25.4mm Square Drive Sockets

### 1" Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
	mm	in		D		D1		L		
S819M	19	0.75	A	51.0	2.01	36.1	1.42	57.9	2.28	894 016 432 3
S821M	21	0.83	A	51.0	2.01	38.1	1.5	57.9	2.28	894 016 432 4
S822M	22	0.87	A	51.0	2.01	39.1	1.54	57.9	2.28	894 016 432 5
S823M	23	0.91	A	51.0	2.01	39.9	1.57	57.9	2.28	894 016 432 6
S824M	24	0.94	A	51.0	2.01	39.9	1.57	57.9	2.28	894 016 432 7
S825M	25	0.98	A	51.0	2.01	40.9	1.61	57.9	2.28	894 016 432 8
S826M	26	1.02	A	51.0	2.01	42.4	1.67	57.9	2.28	894 016 432 9
S827M	27	1.06	A	51.0	2.01	43.9	1.73	57.9	2.28	894 016 433 0
S828M	28	1.1	A	51.0	2.01	45.0	1.77	57.9	2.28	894 016 433 1
S829M	29	1.14	A	51.0	2.01	46.0	1.81	59.9	2.36	894 016 433 2
S830M	30	1.18	A	51.0	2.01	48.0	1.89	59.9	2.36	894 016 433 3
S832M	32	1.26	B	51.0	2.01	51.0	2.01	59.9	2.36	894 016 433 4
S833M	33	1.3	C	52.1	2.05	53.1	2.09	62.0	2.44	894 016 433 5
S835M	35	1.38	C	52.1	2.05	54.1	2.13	62.0	2.44	894 016 433 6
S836M	36	1.42	C	52.1	2.05	55.9	2.2	62.0	2.44	894 016 433 7
S838M	38	1.5	C	52.1	2.05	57.9	2.28	62.0	2.44	894 016 433 8
S840M	40	1.57	C	52.1	2.05	59.9	2.36	62.0	2.44	894 016 433 9
S841M	41	1.61	C	52.1	2.05	61.5	2.42	62.0	2.44	894 016 434 0
S842M	42	1.65	C	52.0	2.05	63.0	2.48	64.0	2.52	894 016 434 1
S843M	43	1.69	C	52.0	2.05	64.8	2.55	64.0	2.52	894 016 434 2
S844M	44	1.73	C	57.9	2.28	65.8	2.59	64.0	2.52	894 016 434 3
S845M	45	1.77	C	57.9	2.28	66.8	2.63	64.0	2.52	894 016 434 4
S846M	46	1.81	C	57.9	2.28	68.1	2.68	64.0	2.52	894 016 434 5
S850M	50	1.97	C	57.9	2.28	72.9	2.87	70.1	2.76	894 016 434 6



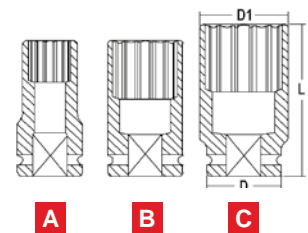
# Sockets and adaptors range

## 1" Standard

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S852M	52	2.05	C	57.9	2.28	74.9	2.95	70.1	2.76	894 016 434 7
S854M	54	2.13	C	57.9	2.28	78.0	3.07	70.1	2.76	894 016 434 8
S855M	55	2.17	C	62.0	2.44	79.0	3.11	71.9	2.83	894 016 434 9
S856M	56	2.2	C	61.2	2.44	80.0	3.15	73.9	2.91	894 016 435 0
S858M	58	2.28	C	61.0	2.44	85.1	3.35	74.9	2.95	894 016 435 1
S860M	60	2.36	C	61.0	2.44	87.1	3.43	78.0	3.07	894 016 435 2
S865M	65	2.56	C	61.0	2.44	93.0	3.66	80.0	3.15	894 016 435 3
S870M	70	2.76	C	62.0	2.44	98.0	3.86	85.1	3.35	894 016 435 4

## 1" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S819MD	19	0.75	A	51.0	2.01	36.1	1.42	89.9	3.54	894 016 440 3
S821MD	21	0.83	A	51.0	2.01	38.1	1.5	89.9	3.54	894 016 440 4
S822MD	22	0.87	A	51.0	2.01	39.1	1.54	89.9	3.54	894 016 440 5
S823MD	23	0.91	A	51.0	2.01	39.9	1.57	89.9	3.54	894 016 440 6
S824MD	24	0.94	A	51.0	2.01	39.9	1.57	89.9	3.54	894 016 440 7
S825MD	25	0.98	A	51.0	2.01	40.9	1.61	89.9	3.54	894 016 440 8
S826MD	26	1.02	A	51.0	2.01	42.4	1.67	89.9	3.54	894 016 440 9
S827MD	27	1.06	A	51.0	2.01	43.9	1.73	89.9	3.54	894 016 441 0
S828MD	28	1.1	A	51.0	2.01	45.0	1.77	89.9	3.54	894 016 441 1
S829MD	29	1.14	A	51.0	2.01	46.0	1.81	89.9	3.54	894 016 441 2
S830MD	30	1.18	A	51.0	2.01	48.0	1.89	89.9	3.54	894 016 441 3
S832MD	32	1.26	B	51.0	2.01	51.0	2.01	89.9	3.54	894 016 441 4
S833MD	33	1.3	C	52.1	2.05	53.1	2.09	89.9	3.54	894 016 441 5
S834MD	34	1.34	C	52.1	2.05	54.1	2.13	89.9	3.54	894 016 441 6
S835MD	35	1.38	C	52.1	2.05	54.1	2.13	89.9	3.54	894 016 441 7
S836MD	36	1.42	C	52.1	2.05	55.9	2.2	89.9	3.54	894 016 441 8
S838MD	38	1.5	C	52.1	2.05	57.9	2.28	91.9	3.62	894 016 441 9
S840MD	40	1.57	C	52.1	2.05	59.9	2.36	91.9	3.62	894 016 442 0
S841MD	41	1.61	C	52.1	2.05	61.5	2.42	91.9	3.62	894 016 442 1
S842MD	42	1.65	C	52.1	2.05	63.0	2.48	91.9	3.62	894 016 442 2
S843MD	43	1.69	C	52.1	2.05	65.0	2.56	91.9	3.62	894 016 442 3
S844MD	44	1.73	C	57.9	2.28	66.0	2.6	91.9	3.62	894 016 442 4
S845MD	45	1.77	C	57.9	2.28	67.0	2.64	91.9	3.62	894 016 442 5
S846MD	46	1.81	C	57.9	2.28	68.0	2.68	91.9	3.62	894 016 442 6
S850MD	50	1.97	C	57.9	2.28	72.9	2.87	95.0	3.74	894 016 442 7
S852MD	52	2.05	C	57.9	2.28	74.9	2.95	95.0	3.74	894 016 442 8
S854MD	54	2.13	C	57.9	2.28	78.0	3.07	95.0	3.74	894 016 442 9
S855MD	55	2.17	C	62.0	2.44	79.0	3.11	100.1	3.94	894 016 443 0
S856MD	56	2.2	C	62.0	2.44	80.0	3.15	100.1	3.94	894 016 443 1
S858MD	58	2.28	C	62.0	2.44	85.1	3.35	104.9	4.13	894 016 443 2
S860MD	60	2.36	C	62.0	2.44	87.1	3.43	104.9	4.13	894 016 443 3
S865MD	65	2.56	C	62.0	2.44	93.0	3.66	119.9	4.72	894 016 443 4
S870MD	70	2.76	C	62.0	2.44	98.0	3.86	123.9	4.88	894 016 443 5
S831D*	1-15/16"		C	57.9	2.28	71.9	2.83	91.9	3.62	894 016 437 4
S832D*	2"		C	57.9	2.28	73.9	2.91	95.0	3.74	894 016 437 5
S833D*	2-1/16"		C	57.9	2.28	74.9	2.95	95.0	3.74	894 016 437 6
S834D*	2-1/8"		C	57.9	2.28	78.0	3.07	95.0	3.74	894 016 437 7
S835D*	2-3/16"		C	62.0	2.44	80.0	3.15	100.1	3.94	894 016 437 8
S836D*	2-1/4"		C	62.0	2.44	84.1	3.31	100.1	3.94	894 016 437 9
S837D*	2-5/16"		C	62.0	2.44	86.1	3.39	104.9	4.13	894 016 438 0
S838D*	2-3/8"		C	62.0	2.44	87.1	3.43	104.9	4.13	894 016 438 1
S839D*	2-7/16"		C	62.0	2.44	88.9	3.5	110.0	4.33	894 016 438 2
S840D*	2-1/2"		C	62.0	2.44	90.9	3.58	110.0	4.33	894 016 438 3
S841D*	2-9/16"		C	62.0	2.44	93.0	3.66	119.9	4.72	894 016 438 4
S843D*	2-11/16"		C	62.0	2.44	97.0	3.82	123.9	4.88	894 016 438 6
S844D*	2-3/4"		C	62.0	2.44	98.0	3.86	123.9	4.88	894 016 438 7
S845D*	2-13/16"		C	62.0	2.44	100.1	3.94	128.0	5.04	894 016 438 8
S846D*	2-7/8"		C	62.0	2.44	102.1	4.02	128.0	5.04	894 016 438 9
S847D*	2-15/16"		C	86.1	3.39	103.9	4.09	134.9	5.31	894 016 439 0
S848D*	3"		C	86.1	3.39	105.9	4.17	134.9	5.31	894 016 439 1

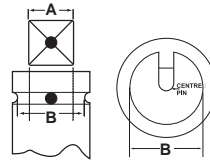


# Socket and adaptors range

## O-Ring & Retaining Pins



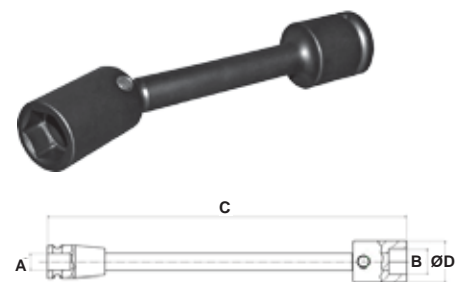
A		ØB		PART NO
mm	in	mm	in	O-Ring
19.05	3/4	31.7	1 1/4	<b>C-155467</b>
19.05	3/4	36.5	1 4/9	<b>C-155468</b>
19.05	3/4	41.3	1 5/8	<b>C-134690</b>
19.05	3/4	44.4	1 3/4	<b>C-134691</b>
19.05	3/4	50.8	2	<b>C-155585</b>
25.4	1	44.4	1 3/4	<b>C-155470</b>
25.4	1	50.8	2	<b>C-155471</b>
25.4	1	54.0	2 1/8	<b>C-155472</b>
25.4	1	57.1	2 1/4	<b>C-134692</b>
25.4	1	63.5	2 1/2	<b>C-155473</b>
38.1	1 1/2	73.0	2 7/8	<b>C-134693</b>
38.1	1 1/2	85.7	3 3/8	<b>C-134694</b>
38.1	1 1/2	98.4	3 7/8	<b>C-134695</b>
38.1	1 1/2	111.1	4 3/8	<b>C-134696</b>



A		ØB		PART NO	
mm	in	mm	in	O-Ring	Pin
9.52	3/8	19	0.75	<b>615 804 403 0</b>	<b>615 804 388 0</b>
9.52	3/8	20-23	0.79-0.91	<b>615 804 404 0</b>	<b>615 804 390 0</b>
9.52	3/8	25-30	0.79-1.18	<b>615 804 405 0</b>	<b>615 804 391 0</b>
12.7	1/2	25-30	0.79-1.18	<b>615 804 405 0</b>	<b>615 804 391 0</b>

## Universal Sockets - Extended Length

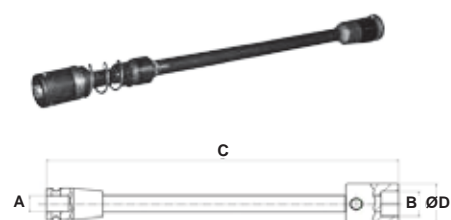
A	B	C		ØD		MAX ANGLE	PART NO
		mm	in	mm	in		
E6,3	SW10	125	4.92	16	0.63	+/- 30°	<b>615 811 525 0</b>
E6,3	SW12	125	4.92	18	0.71	+/- 30°	<b>615 811 526 0</b>
E6,3	SW13	125	4.92	20	0.79	+/- 30°	<b>615 811 527 0</b>
E6,3	E10	125	4.92	16	0.63	+/- 30°	<b>615 811 528 0</b>
E6,3	E12	125	4.92	18	0.71	+/- 30°	<b>615 811 529 0</b>
E6,3	SW10	200	7.87	16	0.63	+/- 30°	<b>615 811 530 0</b>
E6,3	SW12	200	7.87	18	0.71	+/- 30°	<b>615 811 531 0</b>
E6,3	SW13	200	7.87	20	0.79	+/- 30°	<b>615 811 532 0</b>
E6,3	E10	200	7.87	16	0.63	+/- 30°	<b>615 811 533 0</b>
E6,3	E12	200	7.87	18	0.71	+/- 30°	<b>615 811 534 0</b>
3/8"	SW10	125	4.92	16	0.63	+/- 30°	<b>615 811 535 0</b>
3/8"	SW12	125	4.92	18	0.71	+/- 30°	<b>615 811 536 0</b>
3/8"	SW13	125	4.92	20	0.79	+/- 30°	<b>615 811 537 0</b>
3/8"	SW16	125	4.92	24	0.94	+/- 30°	<b>615 811 538 0</b>
3/8"	E10	125	4.92	16	0.63	+/- 30°	<b>615 811 539 0</b>
3/8"	E12	125	4.92	18	0.71	+/- 30°	<b>615 811 540 0</b>
3/8"	E14	125	4.92	20	0.79	+/- 30°	<b>615 811 541 0</b>
3/8"	SW10	200	7.87	16	0.63	+/- 30°	<b>615 811 542 0</b>
3/8"	SW12	200	7.87	18	0.71	+/- 30°	<b>615 811 543 0</b>
3/8"	SW13	200	7.87	20	0.79	+/- 30°	<b>615 811 544 0</b>
3/8"	SW16	200	7.87	24	0.94	+/- 30°	<b>615 811 545 0</b>
3/8"	E12	200	7.87	18	0.71	+/- 30°	<b>615 811 546 0</b>
3/8"	SW10	300	11.81	16	0.63	+/- 30°	<b>615 811 547 0</b>
3/8"	SW13	300	11.81	20	0.79	+/- 30°	<b>615 811 548 0</b>
3/8"	SW16	300	11.81	24	0.94	+/- 30°	<b>615 811 549 0</b>
3/8"	E12	300	11.81	18	0.71	+/- 30°	<b>615 811 550 0</b>
1/2"	SW16	125	4.92	24	0.94	+/- 30°	<b>615 811 551 0</b>
1/2"	SW19	125	4.92	25	0.98	+/- 30°	<b>615 811 552 0</b>
1/2"	SW21	125	4.92	31	1.22	+/- 30°	<b>615 811 553 0</b>
1/2"	SW16	200	7.87	24	0.94	+/- 30°	<b>615 811 554 0</b>
1/2"	SW19	200	7.87	25	0.98	+/- 30°	<b>615 811 555 0</b>
1/2"	SW21	200	7.87	26	1.02	+/- 30°	<b>615 811 556 0</b>
1/2"	SW16	300	11.81	24	0.94	+/- 30°	<b>615 811 557 0</b>
1/2"	SW19	300	11.81	25	0.98	+/- 30°	<b>615 811 558 0</b>
1/2"	SW21	300	11.81	26	1.02	+/- 30°	<b>615 811 559 0</b>



# Sockets and adaptors range

## Universal Sockets - Tension Type - Extended Length

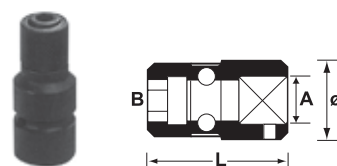
A	B	C		ØD		MAX ANGLE	PART NO
		mm	in	mm	in		
E6.3	SW10	125	4.92	16	0.63	+/- 30°	615 811 560 0
E6.3	SW13	125	4.92	20	0.79	+/- 30°	615 811 561 0
E6.3	E10	125	4.92	16	0.63	+/- 30°	615 811 562 0
E6.3	E12	125	4.92	18	0.71	+/- 30°	615 811 563 0
E6.3	SW10	200	7.87	16	0.63	+/- 30°	615 811 564 0
E6.3	SW13	200	7.87	20	0.79	+/- 30°	615 811 565 0
E6.3	E10	200	7.87	16	0.63	+/- 30°	615 811 566 0
E6.3	E12	200	7.87	18	0.71	+/- 30°	615 811 567 0
3/8"	SW10	125	4.92	16	0.63	+/- 30°	615 811 568 0
3/8"	SW13	125	4.92	20	0.79	+/- 30°	615 811 569 0
3/8"	SW16	125	4.92	24	0.94	+/- 30°	615 811 570 0
3/8"	E12	125	4.92	18	0.71	+/- 30°	615 811 571 0
3/8"	SW10	200	7.87	16	0.63	+/- 30°	615 811 572 0
3/8"	SW13	200	7.87	20	0.79	+/- 30°	615 811 573 0
3/8"	SW16	200	7.87	24	0.94	+/- 30°	615 811 574 0
3/8"	E12	200	7.87	18	0.71	+/- 30°	615 811 575 0
3/8"	SW10	300	11.81	16	0.63	+/- 30°	615 811 576 0
3/8"	SW13	300	11.81	20	0.79	+/- 30°	615 811 577 0
3/8"	SW16	300	11.81	24	0.94	+/- 30°	615 811 578 0
3/8"	E12	300	11.81	18	0.71	+/- 30°	615 811 579 0
1/2"	SW16	125	4.92	24	0.94	+/- 30°	615 811 580 0
1/2"	SW19	125	4.92	25	0.98	+/- 30°	615 811 581 0
1/2"	SW21	125	4.92	26	1.02	+/- 30°	615 811 582 0
1/2"	SW16	200	7.87	24	0.94	+/- 30°	615 811 583 0
1/2"	SW19	200	7.87	25	0.98	+/- 30°	615 811 584 0
1/2"	SW21	200	7.87	26	1.02	+/- 30°	615 811 585 0
1/2"	SW16	300	11.81	24	0.94	+/- 30°	615 811 586 0
1/2"	SW19	300	11.81	25	0.98	+/- 30°	615 811 587 0
1/2"	SW21	300	11.81	26	1.02	+/- 30°	615 811 588 0



## Bit Adaptors

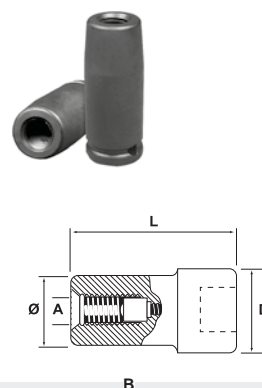
A	B	L		Ø MAX		RETENTION	PART NO
		mm	in	mm	in		
3/8"	Hex 1/4" (D6.3)*	32	1.26	16	0.63	Ball retention	21792
3/8"	Hex 5/16"	68	2.68	21	0.83	Q/R	21762
3/8"	Hex 1/4" (F6.3)**	46	1.81	22	0.87	Q/R	108052
1/2"	Hex 1/4" (D6.3)*	45	1.77	22	0.87	Q/R	615 812 306 0

\*Insert \*\*Direct



## Stud Runners

A	B	L		Ø		D		PART NO
		mm	in	mm	in	mm	in	
3/8"	M5 x 80	50	2	15	0.59	19	0.75	615 811 727 0
3/8"	M6 x 100	50	2	15	0.59	19	0.75	615 811 728 0
3/8"	M8 x 125	50	2	17	0.67	19	0.75	615 811 729 0
3/8"	M10 x 150	50	2	19	0.75	24	0.94	615 811 730 0
1/2"	M6 x 100	55	2.2	22	0.87	24	0.94	615 811 731 0
1/2"	M8 x 125	55	2.2	24	0.94	24	0.94	615 811 732 0
1/2"	M10 x 125	55	2.2	24	0.94	24	0.94	615 811 733 0
1/2"	M10 x 150	55	2.2	24	0.94	24	0.94	615 811 734 0
1/2"	M12 x 175	55	2.2	24	0.94	24	0.94	615 811 735 0
1/2"	M14 x 150	55	2.2	24	0.94	24	0.94	615 811 736 0
1/2"	M14 x 200	55	2.2	24	0.94	24	0.94	615 811 737 0
1/2"	M16 x 200	55	2.2	24	0.94	24	0.94	615 811 738 0

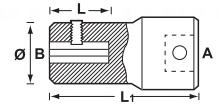




# Socket and adaptors range

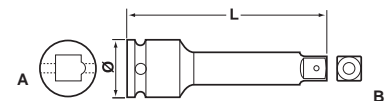
## Bit Adaptors - Positive Retention

A	B	L		Ø MAX		L1		PART NO
		mm	in	mm	in	mm	in	
3/8"	Hex 1/4"	14	0.55	14	0.55	38	1.5	615 812 206 0



## Extension Bars

A	B	L		ØD		PART NO
		mm	in	mm	in	
1/4"	1/4"	50	1.97	13	0.51	894 016 597 9
1/4"	1/4"	100	3.94	13	0.51	894 016 598 0
1/4"	1/4"	150	5.91	13	0.51	894 016 598 1
3/8"	3/8"	45	1.77	19	0.75	894 016 598 5
3/8"	3/8"	75	2.95	19	0.75	894 016 598 6
3/8"	3/8"	150	5.91	19	0.75	894 016 598 7
3/8"	3/8"	300	11.81	19	0.75	894 016 598 8
1/2"	1/2"	75	2.95	30	1.18	894 016 599 4
1/2"	1/2"	127	5	30	1.18	894 016 599 5
1/2"	1/2"	178	7.01	30	1.18	894 016 599 6
1/2"	1/2"	254	10	30	1.18	894 016 599 7
3/4"	3/4"	75	2.95	44	1.73	894 016 600 4
3/4"	3/4"	175	6.89	44	1.73	894 016 600 5
3/4"	3/4"	254	10	44	1.73	894 016 600 6
3/4"	3/4"	330	12.99	44	1.73	894 016 600 7
1"	1"	75	2.95	54	2.13	894 001 660 1
1"	1"	178	7.01	54	2.13	894 016 601 2
1"	1"	254	10	54	2.13	894 016 601 3
1"	1"	330	12.99	54	2.13	894 016 601 4



## Adaptors

A	B	L		Ø		PART NO
		mm	in	mm	in	
1/4"	3/8"	13	0.51	26	1.02	894 016 597 8
3/8"	1/4"	22	0.87	32	1.26	894 016 598 3
3/8"	1/2"	22	0.87	32	1.26	894 016 598 4
1/2"	3/8"	25	0.98	38	1.5	894 016 599 2
1/2"	3/4"	30	1.18	48	1.89	894 016 599 3
3/4"	1/2"	44	1.73	56	2.2	894 016 600 1
3/4"	1"	44	1.73	63	2.48	894 016 600 2
1"	3/4"	54	2.13	75	2.95	894 016 600 9



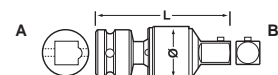
## Universal Joints

A	B	L		Ø		PART NO
		mm	in	mm	in	
1/4"	1/4"	44	1.73	20	0.79	894 016 598 2
3/8"	3/8"	51	2.01	27	1.06	894 016 598 9
1/2"	1/2"	63	2.48	34	1.34	894 016 599 8
3/4"	3/4"	90	3.54	49.2	1.94	894 016 600 8
1"	1"	114	4.49	59.2	2.33	894 016 601 5



## Quick Change Adapters

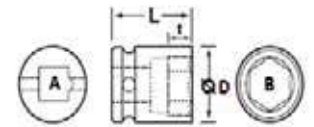
A	B	L		ØD		PART NO
		mm	in	mm	in	
3/8"	3/8"	75	2.95	19	0.75	615 811 589 0
1/2"	1/2"	100	3.94	25	0.98	615 811 590 0
3/4"	3/4"	125	4.92	44	1.73	615 811 591 0
3/8"	1/2"	80	3.15	20	0.79	615 811 592 0
1/2"	3/8"	75	2.95	25	0.98	615 811 593 0
3/4"	1/2"	125	4.92	44	1.73	615 811 595 0



# Sockets and adaptors range

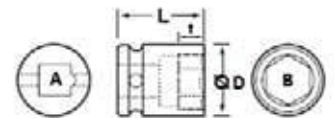
## 1/4" Sockets with protection

A	B	L		ØD		t		PART NO
		mm	in	mm	in	mm	in	
1/4"	SW8	23	0.91	16	0.63	6	0.24	615 811 596 0
1/4"	SW10	23	0.91	18	0.71	7	0.28	615 811 597 0
1/4"	SW13	23	0.91	22	0.87	8	0.31	615 811 598 0
1/4"	E8	23	0.91	16	0.63	-	-	615 811 599 0
1/4"	E10	23	0.91	16	0.63	-	-	615 811 600 0



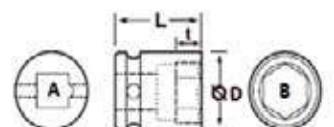
## 3/8" Sockets with protection

A	B	L		ØD		t		PART NO
		mm	in	mm	in	mm	in	
3/8"	SW8	32	1.26	16/21	0.6/0.8	6	0.24	615 811 601 0
3/8"	SW10	32	1.26	19/21	0.7/0.8	7	0.28	615 811 602 0
3/8"	SW11	32	1.26	21	0.8	8	0.31	615 811 603 0
3/8"	SW13	32	1.26	24/24	0.8/0.9	10	0.39	615 811 604 0
3/8"	SW16	32	1.26	27	1.1	11	0.43	615 811 605 0
3/8"	SW17	32	1.26	28	1.1	12	0.47	615 811 606 0
3/8"	SW18	32	1.26	29	1.1	12	0.47	615 811 607 0
3/8"	SW19	32	1.26	30	1.2	12	0.47	615 811 608 0
3/8"	E10	32	1.26	16/21	0.6/0.8	-	-	615 811 609 0
3/8"	E12	32	1.26	18/21	0.7/0.8	-	-	615 811 610 0
3/8"	SW10	50	1.97	18/21	0.7/0.8	6	0.24	615 811 611 0
3/8"	SW13	50	1.97	21/24	0.8/0.9	10	0.39	615 811 612 0
3/8"	SW16	50	1.97	25/26	1.0	11	0.43	615 811 613 0
3/8"	SW10	80	3.15	19/21	0.7/0.8	6	0.24	615 811 614 0
3/8"	SW13	80	3.15	23/24	0.9	10	0.39	615 811 615 0
3/8"	SW16	80	3.15	25	1.0	11	0.43	615 811 616 0



## 1/2" Sockets with protection

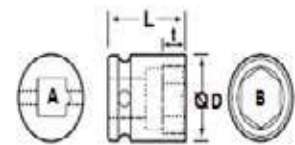
A	B	L		ØD		t		PART NO
		mm	in	mm	in	mm	in	
1/2"	SW13	38	1.5	25/27	1.0/1.1	10	0.39	615 811 617 0
1/2"	SW15	38	1.5	28/34	1.1/1.3	11	0.43	615 811 618 0
1/2"	SW17	38	1.5	31/34	1.2/1.3	12	0.47	615 811 619 0
1/2"	SW18	38	1.5	30/32	1.1/1.3	13	0.51	615 811 620 0
1/2"	SW19	38	1.5	34	1.3	13	0.51	615 811 621 0
1/2"	SW21	38	1.5	34	1.3	14	0.55	615 811 622 0
1/2"	E12	38	1.5	19/27	0.7/1.1	-	-	615 811 623 0
1/2"	E14	38	1.5	22/27	0.7/1.1	-	-	615 811 624 0
1/2"	E16	38	1.5	26/27	1.1	-	-	615 811 625 0
1/2"	SW13	60	2.36	23/26	0.9/1.1	10	0.39	615 811 626 0
1/2"	SW15	60	2.36	26/31	1.1/1.2	11	0.43	615 811 627 0
1/2"	SW17	60	2.36	27/31	1.1/1.2	12	0.47	615 811 628 0
1/2"	SW21	60	2.36	34	1.2	14	0.55	615 811 629 0
1/2"	SW13	80	3.15	23/26	0.9/1.0	10	0.39	615 811 630 0
1/2"	E12	80	3.15	19/27	0.7/1.1	-	-	615 811 631 0
1/2"	E14	80	3.15	22/27	0.9/1.1	-	-	615 811 632 0
1/2"	E16	80	3.15	26/27	1.1	-	-	615 811 633 0
1/2"	E18	80	3.15	26/27	1.1	-	-	615 811 634 0



# Socket and adaptors range

## 3/4" Sockets with protection

A	B	L		ØD		t		PART NO
		mm	in	mm	in	mm	in	
3/4"	SW17	100	3.94	32/47	1.3/1.9	17	0.67	615 811 635 0
3/4"	SW21	100	3.94	38/47	1.5/1.9	21	0.83	615 811 636 0



## Extensions with protection

A	B	L		ØD		PART NO
		mm	in	mm	in	
1/4"	1/4"	75	2.95	12/16	0.5/0.6	615 811 637 0
1/4"	1/4"	200	7.87	12/16	0.5/0.6	615 811 638 0
3/8"	3/8"	75	2.95	16/24	0.6/0.9	615 811 639 0
3/8"	3/8"	125	4.92	16/24	0.6/0.9	615 811 640 0
3/8"	3/8"	200	7.87	16/24	0.6/0.9	615 811 641 0
3/8"	3/8"	250	9.84	16/24	0.6/0.9	615 811 642 0
3/8"	3/8"	400	15.75	16/24	0.6/0.9	615 811 643 0
1/2"	1/2"	75	2.95	20/32	0.8/1.3	615 811 644 0
1/2"	1/2"	125	4.92	20/32	0.8/1.3	615 811 645 0
1/2"	1/2"	200	7.87	20/32	0.8/1.3	615 811 646 0
1/2"	1/2"	250	9.84	20/32	0.8/1.3	615 811 647 0
1/2"	1/2"	400	15.75	20/32	0.8/1.3	615 811 648 0
3/4"	3/4"	175	6.89	32/47	1.3/1.9	615 811 641 0



# Sleeve drive socket - Pulse tools\*

For Desoutter PTF models and all Japanese pulse tools

## Drive 3/8"

OUTPUT SIZE		DIMENSIONS								PART NO
mm	in	D2		D1		L2		L		
		mm	in	mm	in	mm	in	mm	in	
8	0.31	19	0.75	13	0.51	7	0.28	43	1.69	615 811 777 0
10	0.39	19	0.75	16	0.63	7	0.28	43	1.69	615 811 778 0
11	0.43	19	0.75	17.5	0.69	8	0.31	43	1.69	615 811 779 0
12	0.47	19	0.75	18.5	0.73	9	0.35	43	1.69	615 811 780 0
13	0.51	22	0.87	20	0.79	9	0.35	43	1.69	615 811 781 0
14	0.55	22	0.87	21	0.83	9	0.35	43	1.69	615 811 782 0
17	0.67	22	0.87	25	0.98	12	0.47	43	1.69	615 811 783 0
18	0.71	22	0.87	26	1.02	12	0.47	43	1.69	615 811 784 0
19	0.75	22	0.87	27	1.06	12	0.47	43	1.69	615 811 785 0

\*Not suitable for Desoutter PT models



# Sleeve drive socket - Pulse tools\*

For Desoutter PTF models and all Japanese pulse tools

## Drive 1/2"

OUTPUT SIZE		DIMENSIONS								PART NO
A		D2		D1		L2		L		
mm	in	mm	in	mm	in	mm	in	mm	in	
12	0.47	25	0.98	20	0.79	12	0.47	52	2.05	615 811 788 0
13	0.51	25	0.98	21	0.83	12	0.47	52	2.05	615 811 789 0
14	0.55	25	0.98	22.5	0.89	12	0.47	52	2.05	615 811 790 0
15	0.59	30	1.18	23.5	0.93	12	0.47	52	2.05	615 811 791 0
16	0.63	30	1.18	25	0.98	12	0.47	52	2.05	615 811 792 0
17	0.67	30	1.18	26	1.02	13	0.51	52	2.05	615 811 793 0
18	0.71	30	1.18	27.5	1.08	13	0.51	52	2.05	615 811 794 0
19	0.75	30	1.18	28.5	1.12	13	0.51	52	2.05	615 811 795 0
21	0.83	30	1.18	31	1.22	14	0.55	52	2.05	615 811 797 0
22	0.87	30	1.18	32	1.26	14	0.55	52	2.05	615 811 798 0
23	0.91	30	1.18	34	1.34	14	0.55	52	2.05	615 811 799 0
24	0.94	30	1.18	35	1.38	15	0.59	52	2.05	615 811 800 0
25	0.98	30	1.18	36	1.42	15	0.59	57	2.24	615 811 801 0
27	1.06	30	1.18	38.5	1.52	17	0.67	57	2.24	615 811 803 0
30	1.18	30	1.18	42	1.65	18	0.71	57	2.24	615 811 806 0
32	1.26	30	1.18	44	1.73	20	0.79	62	2.44	615 811 807 0



## Drive 3/4"

OUTPUT SIZE		DIMENSIONS								PART NO
A		D2		D1		L2		L		
mm	in	mm	in	mm	in	mm	in	mm	in	
19	0.75	44	1.73	32	1.26	13	0.51	68	2.68	615 811 808 0
21	0.83	44	1.73	35	1.38	15	0.59	68	2.68	615 811 810 0
22	0.87	44	1.73	37	1.46	15	0.59	68	2.68	615 811 811 0
23	0.91	44	1.73	38	1.50	15	0.59	68	2.68	615 811 812 0
26	1.02	44	1.73	42	1.65	16	0.63	69	2.72	615 811 815 0
27	1.06	44	1.73	43	1.69	17	0.67	69	2.72	615 811 816 0
29	1.14	44	1.73	46	1.81	18	0.71	71	2.80	615 811 817 0
30	1.18	44	1.73	47	1.85	18	0.71	71	2.80	615 811 818 0
33	1.30	44	1.73	51	2.01	21	0.83	73	2.87	615 811 820 0
36	1.42	44	1.73	54	2.13	23	0.91	73	2.87	615 811 821 0
41	1.61	44	1.73	60	2.36	27	1.06	75	2.95	615 811 822 0
46	1.81	44	1.73	66.5	2.62	30	1.18	80	3.15	615 811 823 0



## 3/8" Hexagonal Drives

OUTPUT SIZE		DIMENSIONS						PART NO
A		D2		L1		L		
mm	in	mm	in	mm	in	mm	in	
4	0.16	22	0.87	11	0.43	75	2.95	615 811 824 0
5	0.20	22	0.87	11	0.43	75	2.95	615 811 825 0
6	0.24	22	0.87	11	0.43	75	2.95	615 811 826 0
8	0.31	22	0.87	16	0.63	75	2.95	615 811 827 0
10	0.39	22	0.87	16	0.63	75	2.95	615 811 828 0



## 1/2" Hexagonal Drives

OUTPUT SIZE		DIMENSIONS						PART NO
A		D2		L1		L		
mm	in	mm	in	mm	in	mm	in	
6	0.24	25	0.98	15	0.59	75	2.95	615 811 829 0
8	0.31	25	0.98	25	0.98	75	2.95	615 811 830 0
10	0.39	25	0.98	25	0.98	75	2.95	615 811 831 0
17	0.67	25	0.98	25	0.98	75	2.95	615 811 833 0
19	0.75	25	0.98	25	0.98	75	2.95	615 811 834 0



## 3/4" Hexagonal Drives

OUTPUT SIZE		DIMENSIONS						PART NO
A		D2		L1		L		
mm	in	mm	in	mm	in	mm	in	
12	0.47	44	1.73	20	0.79	100	3.94	615 811 835 0
17	0.67	44	1.73	20	0.79	100	3.94	615 811 837 0
19	0.75	44	1.73	20	0.79	100	3.94	615 811 838 0
24	0.94	44	1.73	20	0.79	100	3.94	615 811 839 0
30	1.18	44	1.73	20	0.79	100	3.94	615 811 840 0



\*Not suitable for Desoutter PT models

# Sleeve drive socket - Pulse tools\*

For Desoutter PTF models and all Japanese pulse tools

## Internal Torx

DRIVE A	OUTPUT SIZE TORX B	DIMENSIONS						PART NO
		D2		L1		L		
		mm	in	mm	in	mm	in	
3/8"	T20	22	0.87	2.8	0.11	75	2.95	615 811 841 0
3/8"	T25	22	0.87	3	0.12	75	2.95	615 811 842 0
3/8"	T30	22	0.87	3.8	0.15	75	2.95	615 811 843 0
3/8"	T40	22	0.87	3.8	0.15	75	2.95	615 811 844 0
1/2"	T40	25	0.98	3.8	0.15	75	2.95	615 811 845 0



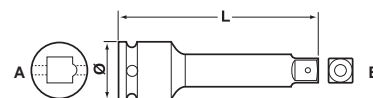
## External Torx

DRIVE A	OUTPUT B	DIMENSIONS								PART NO
		D2		D1		L2		L		
		mm	in	mm	in	mm	in	mm	in	
3/8"	E8	19	0.75	11	0.43	6.5	0.26	43	1.69	615 811 846 0
3/8"	E10	19	0.75	13	0.51	7.5	0.30	43	1.69	615 811 847 0
3/8"	E12	19	0.75	15.5	0.61	8.5	0.33	43	1.69	615 811 848 0
3/8"	E14	22	0.87	17.5	0.69	10	0.39	43	1.69	615 811 849 0
1/2"	E10	25	0.98	14	0.55	7.5	0.30	52	2.05	615 811 850 0
1/2"	E12	25	0.98	16	0.63	8.5	0.33	52	2.05	615 811 851 0
1/2"	E14	25	0.98	18	0.71	10	0.39	52	2.05	615 811 852 0
1/2"	E16	25	0.98	20	0.79	11	0.43	52	2.05	615 811 853 0
1/2"	E18	25	0.98	22	0.87	12.5	0.49	52	2.05	615 811 854 0
3/4"	E18	44	1.73	26	1.02	12.5	0.49	65	2.56	615 811 855 0
3/4"	E20	44	1.73	28	1.10	14	0.55	65	2.56	615 811 856 0
3/4"	E22	44	1.73	31	1.22	15	0.59	65	2.56	615 811 857 0
3/4"	E24	44	1.73	33	1.30	16.5	0.65	65	2.56	615 811 858 0



## Extension Bars

DRIVE A	OUTPUT B	DIMENSIONS				PART NO
		D2		L		
		mm	in	mm	in	
3/8"	3/8	22	0.87	75	2.95	615 811 859 0
3/8"	3/8	22	0.87	125	4.92	615 811 861 0
3/8"	3/8	22	0.87	250	9.84	615 811 864 0
1/2"	1/2	-	-	75	2.95	615 811 865 0
1/2"	1/2	-	-	125	4.92	615 811 867 0
1/2"	1/2	-	-	175	6.89	615 811 869 0
1/2"	1/2	25	0.98	250	9.84	615 811 871 0
3/4"	3/4	44	1.73	175	6.89	615 811 872 0
3/4"	3/4	44	1.73	250	9.84	615 811 873 0
3/4"	3/4	44	1.73	330	12.99	615 811 874 0



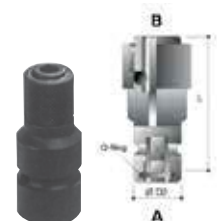
## Stud setter sockets

DRIVE A	OUTPUT B	DIMENSIONS						PART NO
		D2		D1		L		
		mm	in	mm	in	mm	in	
3/8"	M6 x P1	22	0.87	12.5	0.49	50	1.97	615 811 876 0
3/8"	M8 x P1.25	22	0.87	14.5	0.57	50	1.97	615 811 877 0
3/8"	M10 x P1.5	22	0.87	17	0.67	50	1.97	615 811 878 0
1/2"	M6 x P1	25	0.98	13	0.51	75	2.95	615 811 879 0
1/2"	M8 x P1.25	25	0.98	15	0.59	75	2.95	615 811 880 0
1/2"	M10 x P1.5	25	0.98	17	0.67	75	2.95	615 811 881 0
1/2"	M12 x P1.75	25	0.98	19	0.75	75	2.95	615 811 882 0
1/2"	M14 x P2	25	0.98	22	0.87	75	2.95	615 811 883 0
1/2"	M16 x P2	30	1.18	27	1.06	75	2.95	615 811 884 0



## Bit adaptors

DRIVE A	OUTPUT B	DIMENSIONS				PART NO
		D2		L		
		mm	in	mm	in	
3/8"	1/4	22	0.87	52	2.05	615 811 885 0
1/2"	1/4	25	0.98	60	2.36	615 811 887 0



\*Not suitable for Desoutter PT models



Made in France

1000 Lb / 450kg / 1000psi  
**WARNING**  
TO REDUCE RISK OF INJURY  
READ AND UNDERSTAND  
SAFETY INSTRUCTIONS  
SUPPLIED WITH TOOL

ALU-333

CG4  
031 147

# Air Line Network

**Desoutter Air Line Accessories are specially developed to be used with Desoutter Tools & Equipments**

**Desoutter Airline Accessories can also be used with other pneumatic products**

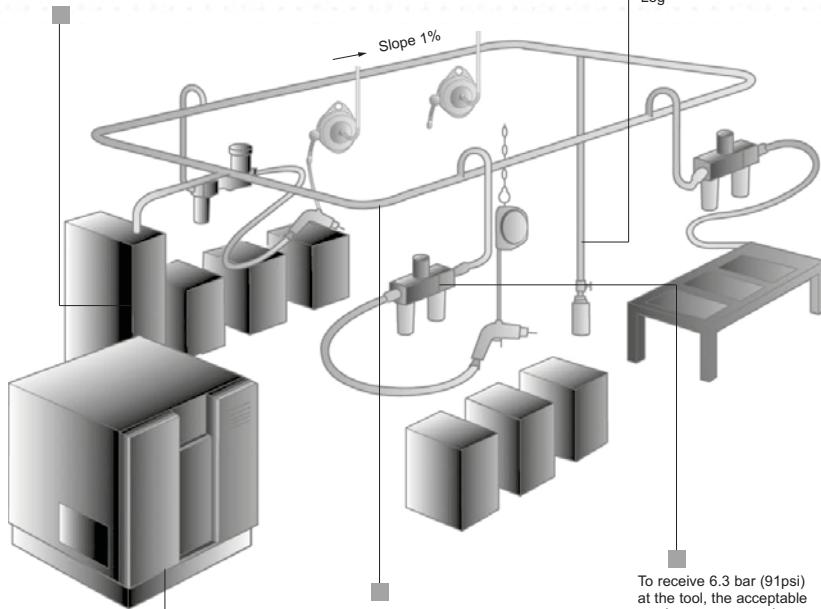
**All accessories can be used for other applications with any pneumatic equipments**

**Desoutter Air Preparation Units are designed to help you get maximum performance from your tools**

**They ensure minimal pressure drop and thus minimum energy losses in the air distribution system, benefiting the environment and cutting your operating costs**

**The lifetimes of your tools will be extended by using air preparation units and with that comes lower repair costs and less downtime. A correct air installation guarantees productivity and good total economy**

Air dryers and filters can cause a 0.2 - 0.3 bar (3-4 psi) pressure drop. However, for many applications these may be essential.



A normal compressor can deliver up to 7.5 bar (109 psi) air line pressure, depending on start and stop settings.

A carefully designed network virtually eliminates pressure drop. We recommend a Ring Main layout which has a slope away from the input of 1%.

To receive 6.3 bar (91psi) at the tool, the acceptable maximum pressure drop from airline accessories is 0.6 bar (9 psi). A combination of high performance components and careful engineering will achieve this.

When developing the Desoutter Air Line Accessories range, we have focused on Performance, Quality, Ergonomics and Safety. Based on this, we now offer a wide range of accessories for optimal air line installation.

Our accessories enable to reach higher productivity with lower energy consumption, a sustainable reduction of energy costs and an extended lifetime of your tools

## Performance

In order to get the best performance out of your air line installation it is key to supply air at a constant pressure (6.3 bar) This, together with minimizing the pressure drop, is the primary focus when designing the Desoutter couplings, hoses and FRLs

The result is not only a better performance in terms of a reduction of energy costs but also in a better lifetime of the tools

## Ergonomics and Safety

To further improve the comfort of use for our customers we now offer hoses in our EFFI line with lower weight and more flexible. In combination with Easy Flow, Safety couplings, Airflex and high quality balancers you can build up a workplace where the operators' safety and ergonomics are in focus

## Quality

All our products are developed to perform in industrial applications. Desoutter Accessories are made with the highest quality materials to ensure the best possible performance and lifetime of the tools

# Air preparation units

## FILTERS, REGULATORS, LUBRICATORS

Why should you use a filter, regulator and lubricator ?

The use of a filter, regulator and lubricator (in that order) for pretool air preparation is strongly recommended by Desoutter. Proper air preparation will result in improved tool performance and increased tool life. The units should be mounted as close to the tool as possible, preferably right where the tool hose is connected to the system. To realize their full value, these units should be checked on a regular assigned basis by maintenance workers or the operators themselves

### AIR FILTER

Filter separates impurities such as water and solid particles

Not using filters in combination with air tools leads to shorter service life, higher maintenance costs and lower efficiency. Old air systems with cool dryers, for instance, generate a lot of rust and running tools without installing a filter could damage the tool in less than a week

Desoutter filters separate up to 98% of the water when operating within their working range. All three types (Small, Medium and Big) are very low pressure drop

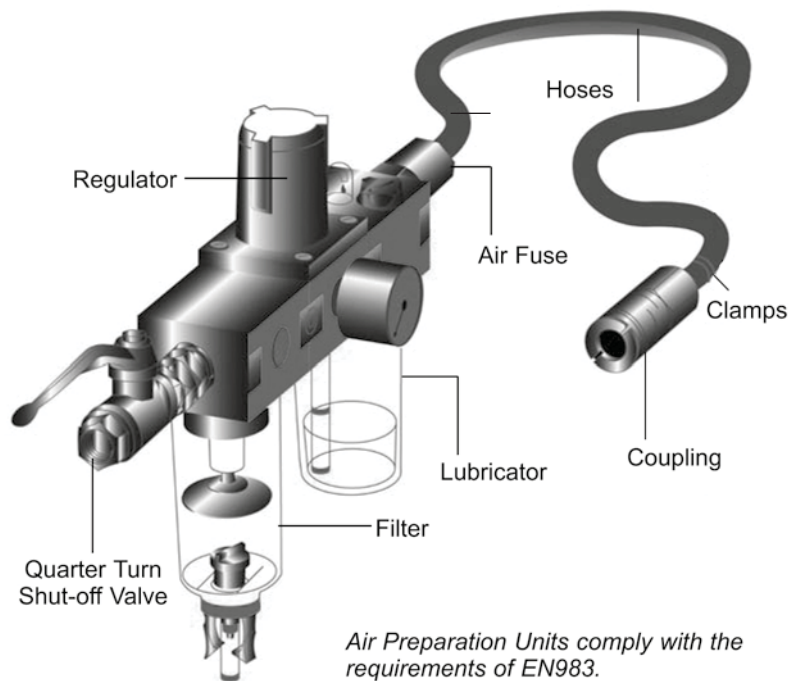
### REGULATOR

The regulator ensures that the pre-set working pressure remains constant - regardless of pressure variations in the intake air and minor variations in the airflow rate. For example, a pressure of 1 bar higher than necessary results in a 16% increase in air consumption

Spring controlled regulators are quick acting and therefore should be used for all types of air tools.

### LUBRICATORS

If lubricators are not used, tool motor vanes will need to be changed more often. The life of the vanes may decrease to as little as 1/10th of the normal working time. The oil fog lubricator is the most common type of lubricator. It supplies a mist of oil to the air hose



TOOL PRESSURE	AIR CONSUMPTION
91 psi (6 bar)	100 %
101 psi (7 bar)	110 %
116 psi (8 bar)	125 %

Different types of FRL	Port size in.	Air flows at 6 bars CFM (l/s)
Small units	1/4	Up to 19 (9)
	3/8	Up to 29.7 (14)
Medium units	1/2	Up to 78.4 (37)
Big units	1	Up to 175.9 (83)



# Air preparation units



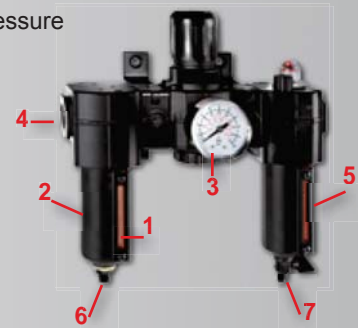
Max air flow Δ 14.5 PSI (1 bar)

## FEATURES AND BENEFITS

High air flow capacity: up to 220 cfm (104 l/s) to cover most of the pneumatic tool needs

Available in kits: 1/4", 1/2", 3/4", BSP or NPT, 2 or 3 stages units or individual units. Durable design including quick release bayonet metal bowls for rough working environments

- (1) Liquid level indicator on the bowls for improved reading
- (2) Filter with 5µm element pre-installed to optimize the air cleaning and with automatic drain valve
- (3) Supplied with metal pressure gauge 0-10 bar (0-145 PSI) with metric and imperial scales
- (4) 145 – 245 PSI (10-17 bar) inlet / outlet max. pressure
- (5) Micro fog lubricator to optimize the air/oil ratio
- (6) Automatic drain valve
- (7) Manual drain



FILTER-REGULATOR LUBRICATOR WITH PRESSURE GAUGE (0-150PSI - 0-10 BAR)	THREAD	MAX. AIR FLOW		MAX. PRESSURE	OIL CAPACITY		PART NUMBER	
		cfm	l/s		Inlet (psi/bar)	oz	ml	NPT
2 STAGE	1/4 G	24	11	150/10	3.4	100	615 811 942 0	615 811 936 0
2 STAGE	1/2 G	110	50	246/17	6.8	201	615 811 944 0	615 811 938 0
2 STAGE	3/4 G	220	100	246/17	6.8	201	615 811 946 0	615 811 940 0
3 STAGE	1/4 G	24	11	150/10	3.4	100	615 811 943 0	615 811 937 0
3 STAGE	1/2 G	110	50	246/17	6.8	201	615 811 945 0	615 811 939 0
3 STAGE	3/4 G	220	100	246/17	6.8	201	615 811 947 0	615 811 941 0

Included with the units: Filter 5µm, Pressure gauge 0-150 psi - 0-10 bar, Microfog lubricator, Automatic drain valve

FILTER UNIT	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	615 811 926 0	615 811 925 0
1 STAGE	1/2 G	615 811 963 0	615 811 927 0
1 STAGE	3/4 G	615 811 929 0	615 811 928 0

REGULATOR UNIT	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	615 811 955 0	615 811 954 0
1 STAGE	1/2 G	615 811 957 0	615 811 956 0
1 STAGE	3/4 G	615 811 959 0	615 811 958 0

PRESSURE GAUGE	SIZE		Ø	MAX PRESSURE	PART NO.
	in.	mm			
1/8" - 0-10	1/8"G	1.57	40	150 PSI (10bar)	615 811 960 0
1/8" - 0-10	1/8"NTP	1.57	40	150 PSI (10bar)	615 811 961 0
1/8" - 0-10	1/8"G	1.97	50	150 PSI (10bar)	615 811 962 0

LUBRICATOR UNIT	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	615 811 949 0	615 811 948 0
1 STAGE	1/2 G	615 811 951 0	615 811 950 0
1 STAGE	3/4 G	615 811 953 0	615 811 952 0

FILTER-REGULATOR	THREAD	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	615 811 931 0	615 811 930 0
1 STAGE	1/2 G	615 811 933 0	615 811 932 0
1 STAGE	3/4 G	615 811 935 0	615 811 934 0

SPRAY PAINT UNIT	PART NUMBER
Filter 0.01µM	615 811 964 0

Lubrication see page 67



# Hoses

Desoutter offers the highest quality of PVC, Rubber and Polyurethane hoses in the Industrial Line to cover the different needs of applications with Power Tools

In addition to this, the EFFI series is designed with special features such as low weight and flexibility, to meet the highest ergonomic demands, as well as antistatic for applications with ESD demands

## HOSES

### HOSE RECOMMENDATIONS

DESCRIPTION	EFFI PVC ESD	EFFI PVC	EFFI MAX	PVC	POLYURETHAN	RUBBER
Flexibility	+++	+++	++	++	++	+
Lightweighth	+++	+++	++	++	++	+
Outdoor	++	++	+++	+	+	+++
Spark resistant	-	-	+++	-	-	+++
Rough environment	++	++	+++	+	++	+++
Antistatic	+++	-	+++	-	-	+++
Temperature range	-5 to +140F° -15 to +60°C	-13 to +140F° -25 to +60°C	-40 to +194F° -40 to +90°C	-13 to +140F° -25 to +60°C	-22 to +176F° -30 to +80°C	-40 to +194F° -40 to +90°C



At recommended air flow the pressure drop is 2.9 PSI / 0.2bar with a hose length of 16 ft / 5m.  
Recommendation is to upgrade one size in diameter for every 32.8 ft / 10m of hose length

### EFFI SERIES

EFFI is a unique premium line of hoses designed with special features such as antistatic, extreme low weight, resistance and durability that will help the operator to maximize the tool productivity.

#### EFFI PVC ESD HOSES

Aimed to electrostatic sensitive devices manufacturers (electronics, radio, communication fields..)

- Antistatic
- Silicone free
- Extra flexible



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 98 ft./30m		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/4	6x11	98.5	30	145 (10)	8.5	4.0	5.1	2.3	<b>615 810 843 0</b>
5/16	8x12	98.5	30	130 (9)	15.8	7.5	5.7	2.6	<b>615 810 844 0</b>
3/8	10x14	98.5	30	116 (8)	27.6	13	5.9	2.7	<b>615 810 845 0</b>
1/2	13x18	98.5	30	101 (7)	44.5	21	10.8	4.4	<b>615 810 846 0</b>

#### EFFI PVC HOSES

Aimed to generic assembly applications

- Low weight
- Silicone free
- Ergonomic
- Extremely soft and flexible



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 98 ft./30m		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/4	6x9	98.5	30	261 (18)	8.5	4.0	2.6	1.2	<b>615 810 847 0</b>
5/16	8x10.5	98.5	30	261 (18)	15.9	7.5	3.7	1.7	<b>615 810 848 0</b>
3/8	10x13	98.5	30	203 (14)	27.6	13	4.6	2.1	<b>615 810 849 0</b>
1/2	13x16.5	98.5	30	188 (13)	44.5	21	6.6	3.0	<b>615 810 850 0</b>
5/8	16x21	98.5	30	159 (11)	91.1	43	11.9	5.4	<b>615 810 851 0</b>
3/4	20x24	98.5	30	159 (11)	159	75	12.8	5.8	<b>615 810 852 0</b>
1	25x31	98.5	30	145 (10)	265	125	22.9	10.4	<b>615 810 853 0</b>

#### EFFI MAX HOSES

Aimed to generic grinding applications

- Extreme low weight
- Antistatic
- Rubber hose
- Soft and flexible
- Welding spatter resistant



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 65.6 ft./20m		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/2	13x18.6	65.6	20	232 (16)	44.5	21	8.6	3.9	<b>615 810 900 0</b>
5/8	16x22.5	65.6	20	232 (16)	91.1	43	10.6	4.8	<b>615 810 901 0</b>
3/4	20x26.1	65.6	20	232 (16)	159	75	11.9	5.4	<b>615 810 902 0</b>

\* With a safety factor of 37.4 psi at 68F° (3 bar at 20°C)  
(at the max temp of +140F° (+60°C) the working pressure should be reduced by 50%)

# Hoses

## PVC, RUBBER AND POLYURETHANE HOSES

Standard quality hose in PVC, PUR and Rubber will provide the best quality product for the price for optimized work with pneumatic tools.

### PVC HOSES

Aimed to heavy duty applications (workshops, factories, garages etc.) For indoor use.

- Long service life
- Pliable
- Transparent



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 98 ft/30m		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/8	3x7	98.5	30	290 (20)	1.5	0.7	3.1	1.4	615 810 854 0
3/16	5x9	98.5	30	261 (18)	4.4	2.1	4.2	1.9	615 810 855 0
1/4	6x11	98.5	30	261 (18)	8.5	4.0	5.5	2.5	615 810 856 0
5/16	8x12	98.5	30	261 (18)	15.8	7.5	6.4	2.9	615 810 857 0
3/8	10x14	98.5	30	203 (14)	27.5	13	8.2	3.7	615 810 858 0
1/2	13x18	98.5	30	188 (13)	44.5	21	13.0	5.9	615 810 859 0
5/8	16x22	98.5	30	174 (12)	91.1	43	15.9	7.2	615 810 860 0
3/4	20x25	98.5	30	174 (12)	159	75	18.3	8.3	615 810 861 0
1	25x32	98.5	30	159 (11)	265	125	27.6	12.5	615 810 862 0

### RUBBER HOSES

Aimed to the most demanding tasks in construction, mining, shipyards, foundries etc.

- Durable
- Antistatic
- Grinding and welding spatter resistant



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 65.6ft/20m		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
3/8	10x16	65.6	20	232 (16)	27.5	13	7.9	3.6	615 810 864 0
1/2	12.5x19.1	65.6	20	232 (16)	44.5	21	10.4	4.7	615 810 865 0
5/8	16x23	65.6	20	232 (16)	91.1	43	13.4	6.1	615 810 866 0
3/4	20x26.6	65.6	20	232 (16)	159	75	17.2	7.8	615 810 868 0
1	25x34	65.6	20	232 (16)	265	125	26.0	11.8	615 810 870 0

### POLYURETHANE HOSES

Aimed to heavy duty applications for indoor and outdoor use

- Oil resistant
- Flexible
- Long service life
- PVC free: Environment friendly



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 82ft/25m		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/4	6.5x10	82	25	290 (20)	8.5	4.0	2.9	1.3	615 804 623 0
5/16	8x12	82	25	290 (20)	15.9	7.5	4.8	2.2	615 804 624 0
3/8	9.5x13	82	25	232 (16)	27.5	13.0	5.5	2.5	615 804 625 0
1/2	13x18	82	25	188 (13)	44.5	21.0	8.8	4.0	615 804 626 0

\* With a safety factor of 37.4 psi at 68F° (3 bar at 20°C)

(at the max temp of +140F° (+60°C) the working pressure should be reduced by 50%

## HOSE KITS

Hose kits are equipped with end thread fittings and available in short length, ready to connect and ready to use.

DIMENSIONS (IDxOD)	MALE	LENGTH	PART NUMBER		HOSE MATERIAL		
			NPT	BSP			
in. ID	mm	in.	ft	m			
1/4	6.5x10	1/4	26.2	8	615 811 213 0	615 804 627 0	PU
5/16	8x12	1/4	26.2	8	615 811 214 0	615 804 628 0	PU
3/8	10x13	1/4	26.2	8	615 811 215 0	615 804 629 0	PU
3/8	10x13	3/8	26.2	8	615 811 240 0	615 811 238 0	PU
1/2	13x18	1/2	26.2	8	615 811 216 0	615 804 630 0	PU
1/2	13x18	3/8	26.2	8	615 811 241 0	615 811 239 0	PU
5/8	16x23	1/2	26.2	8	615 811 268 0	615 811 267 0	Rubber



## RUBBER HOSE WHIPS

Always use a hose whip between the tool and the air supply hose. It provides safety and longer tool air inlet life.



HOSE DIAM.	THREAD SIZE	HOSE LENGTH			PART NUMBER	
		in.	ft	m	NPT	BSP
1/4	6.5	1/4	2.0	0.6	CA046270	615 811 191 0
3/8	10	1/4	2.0	0.6	CA047270	615 811 192 0
1/2	13	3/8	2.0	0.6	CA049271	615 811 264 0
1/2	13	1/2	2.0	0.6	CA049270	615 811 193 0
5/8	16	1/2	2.0	0.6	615 811 266 0	615 811 265 0

## POLYURETHANE SPIRAL HOSE

Spiral hose are especially adapted for tools used at varying distances. Vertically or horizontally, together with a balancer spiral hose, it is a step forward in ergonomics. Equipped with ball bearing at one end (except the 11x16), they can be directly connected at the tool outlet, avoiding the hose to twist

- Self retractable
- Light and flexible
- Strong and durable



DIMENSIONS (IDxOD)	MALE THREADS	WORKING LENGTH		LENGHT			PART NUMBER		
		ft	m	A in. (mm)	B in. (mm)	C in. (mm)	NPT	BSP	
in. ID	mm	in.							
1/4	6.5x10	1/4	6.6	2	19.7 (500)	5.5 (140)	5.9 (150)	615 810 967 0	615 804 635 0
1/4	6.5x10	1/4	13.1	4	19.7 (500)	13 (330)	5.9 (150)	615 810 968 0	615 804 636 0
1/4	6.5x10	1/4	19.7	6	19.7 (500)	20.1 (510)	5.9 (150)	615 810 969 0	615 804 637 0
1/4	6.5x10	1/4	26.2	8	19.7 (500)	27.6 (700)	5.9 (150)	615 810 970 0	615 804 638 0
5/16	8x12	3/8	6.6	2	19.7 (500)	5.1 (130)	5.9 (150)	615 810 971 0	615 804 639 0
5/16	8x12	3/8	13.1	4	19.7 (500)	11.8 (300)	5.9 (150)	615 810 972 0	615 804 640 0
5/16	8x12	3/8	19.7	6	19.7 (500)	18.1 (460)	5.9 (150)	615 810 973 0	615 804 641 0
5/16	8x12	3/8	26.2	8	19.7 (500)	24.8 (630)	5.9 (150)	615 810 974 0	615 804 642 0
7/16	11x16	3/8	6.6	2	19.7 (500)	4.7 (120)	5.9 (150)	615 810 975 0	615 804 643 0
7/16	11x16	3/8	13.1	4	19.7 (500)	10.6 (270)	5.9 (150)	615 810 976 0	615 804 644 0
7/16	11x16	3/8	19.7	6	19.7 (500)	16.5 (420)	5.9 (150)	615 810 977 0	615 804 645 0
7/16	11x16	3/8	26.2	8	19.7 (500)	22.4 (570)	5.9 (150)	615 810 978 0	615 804 646 0

# Hose Reels

## CUSTOMERS BENEFITS

- Industrial hose reels
- No hoses on the ground for improved safety
- Hoses from 10 to 20 m (3 to 6.1 ft)
- Directional swivel plate to help you reach the application (as option)
- Internal diameter hoses from 8mm to 25mm (5/16" to 1")
- Open or closed hose reels

## APPLICATIONS

- Industrial assembly lines: Offroad, Aerospace, MVI, Tiers, LAS
- Shipyards, foundries
- Maintenance industry

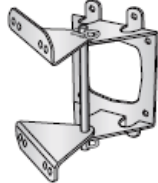
## OPTIONAL - Pivoting Wall Brackets



HR(O) S/M

615 811 986 0

Hole pattern and dimensions for wall mounting are the same as for the foot plate of the reel.



HRO L

615 811 987 0

Galvanized  
Stainless

A



**HR S - Hose reel Small Closed**

Composite Series  
Compact and ergonomic plastic casing air hose reel  
Airflow Max 15,4 l/s (32.6 cfm)

B



**HR M - Hose reel Medium Closed**

Steel Series  
Compact and ergonomic steel casing air hose reel  
Airflow Max 29.25 l/s (62 cfm)

C



**HRO M - Hose reel Medium Open**

Composite Series  
Airflow Max 29.25 l/s (62 cfm)

D



**HRO L / Hose Reel Large Open**

Steel Series  
Airflow Max 130l/s (275 cfm)



PIC	MODEL	CONNECTION	LENGTH		Ø INTERNAL		FLUID	HOSE MATERIAL	INLET	WEIGHT		MAX. PRESSURE		AIR FLOW		PART NUMBER	
			in.	m	ft	mm				in.	kg	lb	bar	PSI	l/s		cfm
A	HR S	BSP	1/4	12	3.7	8	5/16	Air	PVC / PUR	1.5 m (4.9 ft) PVC	5	13	15	217.5	9.26	19.6	615 811 900 0
A	HR S	BSP	3/8	10	3.0	10	3/8	Air	PVC / PUR	1.5 m (4.9 ft) PVC	5	13	15	217.5	15.4	32.6	615 811 901 0
B	HR M	BSP	3/8	10	3.0	10	3/8	Air	Rubber	1 m (3.3 ft) rubber hose	14	38	15	217.5	15.4	32.6	615 811 907 0
B	HR M	BSP	1/2	10	3.0	12.5	1/2	Air	Rubber	1 m (3.3 ft) rubber hose	16	43	15	217.5	29.25	62.0	615 811 908 0
C	HRO M	BSP	3/8	15	4.6	10	3/8	Air	Rubber	1 m (3.3 ft) rubber hose	11	29	15	217.5	14.4	30.5	615 811 902 0
C	HRO M	BSP	3/8	20	6.1	10	3/8	Air	Rubber	1 m (3.3 ft) rubber hose	14	38	15	217.5	12.7	26.9	615 811 904 0
C	HRO M	BSP	1/2	10	3.0	12.5	1/2	Air	Rubber	1 m (3.3 ft) rubber hose	12	32	15	217.5	29.25	62.0	615 811 905 0
C	HRO M	BSP	1/2	15	4.6	12.5	1/2	Air	Rubber	1 m (3.3 ft) rubber hose	13	35	15	217.5	25.6	54.2	615 811 906 0
D	HRO L	BSP	3/4	15	4.6	19	3/4	Air	Rubber	1 m (3.3 ft) rubber hose	28	75	15	217.5	80	169.5	615 811 909 0
D	HRO L	BSP	1	10	3.0	25	1	Air	Rubber	1 m (3.3 ft) rubber hose	30	80	15	217.5	130	275.5	615 811 910 0
A	HR S	NPT	1/4	12	3.7	8	5/16	Air	PVC / PUR	1 m (3.3 ft) PVC	5	13	15	217.5	9.26	19.6	615 811 911 0
A	HR S	NPT	3/8	10	3.0	10	3/8	Air	PVC / PUR	1 m (3.3 ft) PVC	5	13	15	217.5	1.4	32.6	615 811 912 0
B	HR M	NPT	3/8	10	3.0	10	3/8	Air	Rubber	1 m (3.3 ft) rubber hose	14	38	15	217.5	15.4	32.6	615 811 918 0
B	HR M	NPT	1/2	10	3.0	12.5	1/2	Air	Rubber	1 m (3.3 ft) rubber hose	16	43	15	217.5	29.25	62.0	615 811 919 0
C	HRO M	NPT	3/8	15	4.6	10	3/8	Air	Rubber	1 m (3.3 ft) rubber hose	11	29	15	217.5	14.4	30.5	615 811 913 0
C	HRO M	NPT	3/8	20	6.1	10	3/8	Air	Rubber	1 m (3.3 ft) rubber hose	14	38	15	217.5	12.7	26.9	615 811 915 0
C	HRO M	NPT	1/2	10	3.0	12.5	1/2	Air	Rubber	1 m (3.3 ft) rubber hose	12	32	15	217.5	29.25	62.0	615 811 916 0
C	HRO M	NPT	1/2	15	4.6	12.5	1/2	Air	Rubber	1 m (3.3 ft) rubber hose	13	35	15	217.5	25.6	54.2	615 811 917 0
D	HRO L	NPT	3/4	15	4.6	19	3/4	Air	Rubber	1 m (3.3 ft) rubber hose	28	75	15	217.5	80	169.5	615 811 920 0
D	HRO L	NPT	1	10	3.0	25	1	Air	Rubber	1 m (3.3 ft) rubber hose	30	80	15	217.5	130	275.5	615 811 921 0

# Couplings

**Desoutter** offers a wider range of couplings to create the best possible solution together with Power Tools. The range consists of four types of couplings with different characteristics, all with the focus on quality, ergonomics and performance. To cover most of the global needs Desoutter offers three types of nipple profiles, Euro-, ISO 6150B- and the Asian profile. With the Easy Flow coupling Desoutter can present a unique coupling with no air restriction, minimizing the pressure drop.

Thanks to its innovative design EF is suited for rough environment and it is easy and secure to connect and disconnect with the push and bend principle.

The safety feature in EF and Safety Couplings are vented versions to minimize the risk of sudden separation of coupling and nipple.

	Air Flow	Safety feature	Rough environment	Durability	Ergonomics
EF	+++	++	++	++	+++
Safety	++	+++	+	+	+
Quick Release	++	-	+	++	+++
Claw	+++	-	+++	+++	-

Max air flow capacity (Delta 7.2 psi / 0.5 bar) - Economical air flow (Delta 2.9 psi (0.2 bar))

## FITTINGS ADAPTABILITY

Nipple		ISO6105B 6mm	EURO 7.6mm	EURO 10.4mm	ASIA 7.5mm
CEJN	310 320 410	X	X	X	
TEMA	1300 1600 1700	X	X	X	
ARO	23-23902	X			
RECTUS	14 - 22 25 (KA, KB, KD, KE, KL, KS) 26 (KA, KB, KE) 27	X	X X	X	
PREVOST	ARM-ASC-ARC-06 ESC 07	X	X		
LEGRIS	14 - 22 25 (KA, KB, KD, KE, KL, KS)	X	X		
NITTO	Hi CUPLA200				X

## EF COUPLING - EURO SERIES: EUROPE

EF COUPLING - EURO 7.6mm / Max air flow capacity 79 cfm / 37.5 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 53 cfm - 25 l/s (Delta 2.9 psi / 0.2 bar)

NIPPLES EURO 7.6mm



MALE THREAD	PART NUMBER
in.	BSP
1/4	615 810 5140
3/8	615 810 5150
1/2	615 810 5160



FEMALE THREAD	PART NUMBER
in.	BSP
1/4	615 810 5170
3/8	615 8105 180
1/2	615 810 5190



HOSE CONNECTION	PART NUMBER
mm	
6	615 810 5500
8	615 810 5530
10	615 810 5540
13	615 810 5550



MALE THREAD	PART NUMBER	
in.	BSP	NPT
1/4	615 810 588 0	615 810 594 0
3/8	615 810 589 0	615 810 595 0
1/2	615 810 590 0	615 810 596 0



FEMALE THREAD	PART NUMBER
in.	BSP
1/4	615 810 591 0
3/8	615 810 592 0
1/2	615 810 593 0



HOSE CONNECTION	PART NUMBER
mm	
6	615 810 622 0
8	615 810 625 0
10	615 810 626 0
13	615 810 627 0

EF COUPLING - EURO 10.4mm / Max air flow capacity 153 cfm - 72 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 102 cfm - 48 l/s (Delta 2.9 psi / 0.2 bar)

NIPPLES EURO 10.4mm



MALE THREAD	PART NUMBER
in.	BSP
3/8	615 810 639 0
1/2	615 810 640 0
3/4	615 810 641 0



FEMALE THREAD	PART NUMBER
in.	BSP
3/8	615 810 642 0
1/2	615 810 643 0
3/4	615 810 644 0



HOSE CONNECTION	PART NUMBER
mm	
10	615 810 651 0
13	615 810 652 0
16	615 810 653 0
19	615 810 654 0



MALE THREAD	PART NUMBER	
in.	BSP	NPT
3/8	615 810 665 0	615 810 668 0
1/2	615 810 666 0	615 810 669 0
3/4	615 810 667 0	615 810 670 0



FEMALE THREAD	PART NUMBER
in.	BSP
3/8	615 810 671 0
1/2	615 810 672 0
3/4	615 810 673 0



HOSE CONNECTION	PART NUMBER
mm	
10	615 810 677 0
13	615 810 678 0
16	615 810 679 0
19	615 810 680 0

# Couplings

## EF COUPLING - ISO 6150B MIL-C4109: NORTH AMERICA, FRANCE, ITALY

EF COUPLING - ISO 6150B 6mm / Max air flow capacity 36 cfm - 16.7 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 23.3 cfm - 11 l/s (Delta 2.9 psi / 0.2 bar)

NIPPLES ISO 6150B 6 mm



MALE THREAD		PART NUMBER	
in.	BSP	NPT	
1/4	615 810 485 0	615 810 479 0	
3/8	615 810 486 0	615 810 480 0	
1/2	615 810 487 0	615 810 481 0	



FEMALE THREAD		PART NUMBER	
in.	BSP	NPT	
1/4	615 810 488 0	615 810 482 0	
3/8	615 810 489 0	615 810 483 0	



HOSE CONNECTION	PART NUMBER
mm	
6	615 810 530 0
8	615 810 531 0
10	615 810 532 0
13	615 810 533 0



MALE THREAD		PART NUMBER	
in.	NPT	BSP	
1/4	615 810 562 0	615 810 556 0	
3/8	615 810 563 0	615 810 557 0	
1/2	615 810 564 0	615 810 558 0	



FEMALE THREAD		PART NUMBER	
in.	NPT	BSP	
1/4	615 810 565 0	615 810 559 0	
3/8	615 810 566 0	615 810 560 0	
1/2	615 810 567 0	615 810 561 0	



HOSE CONNECTION	PART NUMBER
mm	
6	615 810 604 0
8	615 810 605 0
10	615 810 606 0
13	615 810 607 0

EF COUPLING - ISO 6150B 8mm / Max air flow capacity 91 cfm - 43 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 57 cfm - 27 l/s (Delta 2.9 psi / 0.2 bar)

NIPPLES ISO 6150B 8mm



MALE THREAD		PART NUMBER	
in.	NPT	BSP	
1/4	615 810 498 0	615 810 492 0	
3/8	615 810 499 0	615 810 493 0	
1/2	615 810 500 0	615 810 494 0	



FEMALE THREAD		PART NUMBER	
in.	NPT	BSP	
1/4	615 810 501 0	615 810 495 0	
3/8	615 810 502 0	615 810 496 0	
1/2	615 810 503 0	615 810 497 0	



HOSE CONNECTION	PART NUMBER
mm	
8	615 810 538 0
10	615 810 539 0
13	615 810 540 0
16	615 810 541 0



MALE THREAD		PART NUMBER	
in.	NPT	BSP	
1/4	615 810 574 0	615 810 568 0	
3/8	615 810 575 0	615 810 569 0	
1/2	615 810 576 0	615 810 570 0	



FEMALE THREAD		PART NUMBER	
in.	NPT	BSP	
1/4	615 810 577 0	615 810 571 0	
3/8	615 810 578 0	615 810 572 0	
1/2	615 810 579 0	615 810 573 0	



HOSE CONNECTION	PART NUMBER
mm	
8	615 810 611 0
10	615 810 612 0
13	615 810 613 0
16	615 811 133 0

EF COUPLING - ISO6150B 11mm / Max air flow capacity 162 cfm - 76.5 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 110 cfm - 52 l/s (Delta 2.9 psi / 0.2 bar)

NIPPLES ISO 6150B 11mm



MALE THREAD		PART NUMBER	
in.	NPT	BSP	
3/8	615 810 509 0	615 810 505 0	
1/2	615 810 510 0	615 810 506 0	
3/4	615 810 635 0	615 810 634 0	



FEMALE THREAD		PART NUMBER	
in.	NPT	BSP	
3/8	615 810 511 0	615 810 507 0	
1/2	615 810 512 0	615 810 508 0	
3/4	615 810 637 0	615 810 636 0	



HOSE CONNECTION	PART NUMBER
mm	
10	615 810 546 0
13	615 810 547 0
16	615 810 548 0
19	615 810 549 0



MALE THREAD		PART NUMBER	
in.	NPT	BSP	
3/8	615 810 584 0	615 810 580 0	
1/2	615 810 585 0	615 810 581 0	
3/4	615 810 692 0	615 810 691 0	



FEMALE THREAD		PART NUMBER	
in.	NPT	BSP	
3/8	615 810 586 0	615 810 582 0	
1/2	615 810 587 0	615 810 583 0	
3/4	615 810 694 0	615 810 693 0	



HOSE CONNECTION	PART NUMBER
mm	
10	615 810 618 0
13	615 810 619 0
16	615 810 620 0
19	615 810 621 0

# Couplings

## EF COUPLING - ASIA 7.5MM: JAPAN, CHINA, INDIA

EF COUPLING - ASIA 7.5mm / Max air flow capacity 72 cfm - 34 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 48.7 cfm - 23 l/s (Delta 2.9 psi (0.2 bar))

NIPPLES ASIA 7.5mm



MALE THREAD		PART NUMBER
in.		R
1/4		615 810 656 0
3/8		615 810 657 0
1/2		615 810 658 0



FEMALE THREAD		PART NUMBER
in.		R
1/4		615 810 659 0
3/8		615 810 660 0
1/2		615 810 661 0



HOSE CONNECTION		PART NUMBER
mm		
6		615 810 871 0
8		615 810 662 0
10		615 810 663 0
13		615 810 664 0



MALE THREAD		PART NUMBER
in.		R
1/4		615 810 681 0
3/8		615 810 682 0
1/2		615 810 683 0



FEMALE THREAD		PART NUMBER
in.		R
1/4		615 810 684 0
3/8		615 810 685 0
1/2		615 810 687 0



HOSE CONNECTION		PART NUMBER
mm		
6		615 810 697 0
8		615 810 688 0
10		615 810 689 0
13		615 810 690 0

## SAFETY COUPLINGS

EURO 7.6mm / Max air flow capacity 72 cfm - 34 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 47 cfm - 22 l/s (Delta 2.9 psi (0.2 bar))



HOSE CONNECTION		PART NUMBER
	BSP	
6		615 811 166 0
8		615 811 167 0
10		615 811 168 0
12,5		615 811 169 0



MALE THREAD		PART NUMBER
in.	BSP	
1/4		615 811 170 0
3/8		615 811 171 0
1/2		615 811 172 0



FEMALE THREAD		PART NUMBER
in.	BSP	
1/4		615 811 174 0
3/8		615 811 175 0
1/2		615 811 176 0

Nipples Euro  
7.6mm  
see page 61



EURO 10.4mm / Max air flow capacity 134 cfm - 62 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 86.2 cfm - 40.7 l/s (Delta 2.9 psi (0.2 bar))



HOSE CONNECTION		PART NUMBER
	BSP	
10		615 811 184 0
13		615 811 185 0
16		615 811 186 0



MALE THREAD		PART NUMBER
in.	BSP	
1/4		615 811 187 0
3/8		615 811 188 0
1/2		615 811 189 0



FEMALE THREAD		PART NUMBER
in.	BSP	
1/2		615 811 190 0

Nipples Euro  
10.4mm  
see page 61



## CLAW COUPLINGS

Economical air flow 593 cfm - 280 l/s



MALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 907 0	615 810 903 0
1/2	615 810 908 0	615 810 904 0
3/4	615 810 909 0	615 810 905 0
1	615 810 910 0	615 810 906 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 915 0	615 810 911 0
1/2	615 810 916 0	615 810 912 0
3/4	615 810 917 0	615 810 913 0
1	615 810 918 0	615 810 914 0



HOSE CONNECTION	PART NUMBER	
	US Universal	DIN Standard 3489
1/4 (6.5mm)	-	615 810 919 0
3/8 (10mm)	615 810 927 0	615 810 920 0
1/2 (13mm)	615 810 928 0	615 810 921 0
5/8 (16mm)	-	615 810 922 0
3/4 (19mm)	615 810 929 0	615 810 923 0
1 (25.4mm)	615 810 930 0	615 810 924 0

# Couplings

## QUICK RELEASE COUPLINGS - EURO SERIES: EUROPE

EURO 7.6mm / Max air flow capacity 72 cfm - 34 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 40 cfm - 19 l/s (Delta 2.9 psi / 0.2 bar)

MALE THREAD	PART NUMBER
1/4	615 811 072 0
3/8	615 811 073 0
1/2	615 811 074 0

FEMALE THREAD	PART NUMBER
1/4	615 811 075 0
3/8	615 811 076 0
1/2	615 811 077 0

HOSE CONNECTION	PART NUMBER
6	615 811 078 0
8	615 811 079 0
10	615 811 080 0
13	615 811 081 0

Nipples Euro  
7.6mm  
see page 61



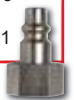
EURO 10.4mm / Max air flow capacity 121 cfm - 57 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 78 cfm - 37 l/s (Delta 2.9 psi / 0.2 bar)

MALE THREAD	PART NUMBER
1/4	615 811 082 0
3/8	615 811 083 0
1/2	615 811 084 0

FEMALE THREAD	PART NUMBER
1/4	615 811 085 0
3/8	615 811 086 0
1/2	615 811 087 0

HOSE CONNECTION	PART NUMBER
6	615 811 088 0
8	615 811 089 0
10	615 811 090 0
13	615 811 091 0

Nipples Euro  
10.4mm  
see page 61



## QUICK RELEASE COUPLINGS - ISO 6150B MIL-C4109: NORTH AMERICA, FRANCE, ITALY

ISO 6150B 6mm / Max air flow capacity 32 cfm - 15 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 23.3 cfm - 11 l/s (Delta 2.9 psi / 0.2 bar)

MALE THREAD	PART NUMBER
1/4	615 811 042 0
3/8	615 811 043 0
1/2	615 811 044 0

FEMALE THREAD	PART NUMBER
1/4	615 811 045 0
3/8	615 811 046 0
1/2	615 811 047 0

HOSE CONNECTION	PART NUMBER
6	615 811 048 0
8	615 811 049 0
10	615 811 050 0
13	615 811 051 0

Nipples ISO 6150B  
6mm  
see page 62



ISO 6150B 8mm / Max air flow capacity 63 cfm - 30 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 42 cfm - 20 l/s (Delta 2.9 psi / 0.2 bar)

MALE THREAD	PART NUMBER
1/4	615 811 052 0
3/8	615 811 053 0
1/2	615 811 054 0

FEMALE THREAD	PART NUMBER
1/4	615 811 055 0
3/8	615 811 056 0
1/2	615 811 057 0

HOSE CONNECTION	PART NUMBER
6	615 811 058 0
8	615 811 059 0
10	615 811 060 0
13	615 811 061 0

Nipples ISO 6150B  
8mm  
see page 62



ISO 6150B 11mm / Max air flow capacity 127 cfm - 60 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 85 cfm - 40 l/s (Delta 2.9 psi / 0.2 bar)

MALE THREAD	PART NUMBER
1/4	615 811 062 0
3/8	615 811 063 0
1/2	615 811 064 0

FEMALE THREAD	PART NUMBER
1/4	615 811 065 0
3/8	615 811 066 0
1/2	615 811 067 0

HOSE CONNECTION	PART NUMBER
10	615 811 068 0
13	615 811 069 0
16	615 811 070 0
19	615 811 071 0

Nipples ISO 6150B  
11mm  
see page 62



## QUICK RELEASE COUPLINGS - ASIA 7.5MM: JAPAN, CHINA, INDIA

ASIA 7.5mm / Max air flow capacity 36 cfm - 17 l/s (Delta 7.2 psi / 0.5 bar)  
Economical air flow 23.3 cfm - 11 l/s (Delta 2.9 psi / 0.2 bar)

MALE THREAD	PART NUMBER
1/4	615 811 032 0
3/8	615 811 033 0
1/2	615 811 034 0

FEMALE THREAD	PART NUMBER
1/4	615 811 035 0
3/8	615 811 036 0
1/2	615 811 037 0

HOSE CONNECTION	PART NUMBER
6	615 811 038 0
8	615 811 039 0
10	615 811 040 0
13	615 811 041 0

Nipples ASIA  
7.5mm  
see page 63





# Connecting Accessories

## BALL VALVES

Suitable for air, water and many other liquids and gases



DESCRIPTION	FEMALE THREAD	PART NUMBER		
		in.	NPT	BSP
CP BAL 08	1/4	615 810 949 0	615 810 941 0	
CP BAL 10	3/8	615 810 950 0	615 810 942 0	
CP BAL 15	1/2	615 810 951 0	615 810 943 0	
CP BAL 20	3/4	615 810 952 0	615 810 944 0	
CP BAL 25	1	615 810 953 0	615 810 945 0	
CP BAL 32	1-1/4	-	615 810 946 0	
CP BAL 40	1-1/2	-	615 810 947 0	
CP BAL 50	2	-	615 810 948 0	

## 360° SWIVEL AIR INLET

Aimed to improve the working ergonomony, Air flex connectors can rotate 360° eliminating efforts when working in cramped spaces

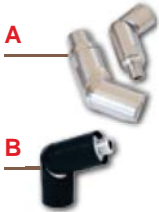


	PART NUMBER
Swivel	894 015 841 2

\* Air Inlet: 1/4" BSP

## AIR FLEX

Aimed to improve the working ergonomony, Air flex connectors can rotate 360° eliminating efforts when working in cramped spaces



PIC REF	MULTI DIRECTION SWIVEL CONNECTOR	MAX RECOMMENDED FLOW		LENGTH		PART NUMBER		
		cfm	l/s	mm	in.	BSP	NPT	R
A	1/4"	25	12	67	2.63	615 804 746 0	615 804 747 0	615 995 559 0
	3/8"	74	35	82	3.23	615 804 748 0	615 804 749 0	615 995 557 0
	1/2"	74	35	82	3.23	615 804 750 0	615 804 751 0	615 995 558 0
B	1/4"	12	25	67	2.63	615 810 046 0	615 811 375 0	

## SIMPLE PRESSURE CLAMPS (TO BE USED WITH PLYERS)



DESCRIPTION		FOR EFFI		FOR PVC		PART NUMBER
in.	mm	ID in.	IDxOD mm	ID in.	IDxOD mm	
0.204-0.244	5.2-6.2	-	-	-	-	615 810 979 0
0.232-0.276	5.9-7.0	-	-	-	-	615 810 980 0
0.276-0.334	7.0-8.5	-	-	1/8	3x7	615 810 981 0
0.334-0.393	8.5-10	1/4	6x9	3/16	5x9	615 810 982 0
0.386-0.464	9.8-11.8	5/16	8x10	1/4	6x11	615 810 983 0
0.445-0.523	11.3-13.3	5/16	8x12	5/16	8x12	615 810 984 0
0.504-0.583	12.8-14.8	3/8	10x13 / 10x14	3/8	9.5x13 / 10x14	615 810 985 0
0.575-0.661	14.6-16.8	1/2	13x16.5	3/8	10x16	615 810 986 0
0.650-0.740	16.5-18.8	1/2	13x18	1/2	13x18	615 810 987 0
0.709-0.799	18.0-20.3	1/2	13x18.6	1/2	12.5x19	615 810 988 0
0.795-0.898	20.2-22.8	5/8	16x21	5/8	16x22	615 810 989 0
0.866-0.976	22.0-24.8	3/8	16x22.5	5/8	16x23	615 810 990 0
0.917-1.035	23.3-26.3	3/4	20x24	-	-	615 810 991 0
1.043-1.181	26.5-30.0	-	-	3/4	20x26.6	615 810 992 0
1.173-1.303	29.8-33.1	1	25x31	1	25x32	615 810 993 0

## PRESSURE CLAMP WITH SCREW



DESCRIPTION		FOR EFFI	FOR PVC RUBBER & POLYURETHANE	PART NUMBER
in.	mm	ID in.	ID in.	
0.31-0.55	8-14	1/4-5/16	1/8-1/4-5/16	615 804 673 0
0.43-0.67	11-17	3/8	3/8	615 804 674 0
0.51-0.79	13-20	1/2	1/2	615 804 675 0
0.59-0.94	15-24	-	-	615 804 676 0
0.75-1.10	19-28	5/8	5/8	615 804 677 0
0.87-1.26	22-32	3/4	3/4	615 804 678 0
1.02-1.50	26-38	-	-	615 810 994 0
1.26-1.73	32-44	1	1	615 810 995 0
1.50-1.97	38-50	-	-	615 810 996 0
1.97-2.56	50-65	-	-	615 810 997 0

## HEAVY DUTY PRESSURE CLAMP FOR RUBBER



DESCRIPTION		FOR EFFI MAX	FOR RUBBER	PART NUMBER
in.	mm	ID in.	ID in.	
0.87-0.98	22-25	5/8	5/8	615 811 005 0
0.98-1.10	25-28	3/4	3/4	615 811 006 0
1.14-1.26	29-32	-	-	615 811 007 0
1.34-1.50	34-38	-	1	615 811 008 0

# Fittings

## PIPE CROSS - 4 female thread



THREAD FEMALE		PART NUMBER
in.		BSP
1/4		894 016 941 7
3/8		894 016 941 8
1/2		894 016 941 9

## CROSS - 3 female thread / 1 male thread



THREAD FEMALE		THREAD MALE	PART NUMBER
in.	in.		BSP
1/4	1/4		894 016 942 0
3/8	3/8		894 016 942 1
1/2	1/2		894 016 942 2

## Y CONNECTION 2 female outlet - 1 male inlet



THREAD FEMALE		THREAD MALE	PART NUMBER
in.	in.		BSP
1/4	1/4		894 016 942 3
3/8	3/8		894 016 942 4
1/2	1/2		894 016 942 5

## PIPE ELBOW



THREAD FEMALE		THREAD MALE	PART NUMBER
in.	in.		BSP
1/4	1/4		894 016 942 6
3/8	3/8		894 016 942 7
1/2	1/2		894 016 942 8
3/4	3/4		894 016 942 9
1	1		894 016 943 0

## TEE - 2 female outlet - 1 female inlet



THREAD FEMALE		PART NUMBER
in.		BSP
1/4		894 016 943 1
3/8		894 016 943 2
1/2		894 016 943 3
3/4		894 016 943 4
1		894 016 943 5

## TEE - 2 female outlet - 1 male inlet



THREAD FEMALE		THREAD MALE	PART NUMBER
in.	in.		BSP
1/4	1/4		894 016 943 6
3/8	3/8		894 016 943 7
1/2	1/2		894 016 943 8
3/4	3/4		894 016 943 9
1	1		894 016 944 0

## TEE - 2 female outlet 90° - 1 male inlet



THREAD FEMALE		THREAD MALE	PART NUMBER
in.	in.		BSP
1/4	1/4		894 016 944 1
3/8	3/8		894 016 944 2
1/2	1/2		894 016 944 3

## HEX HEAD PLUG



THREAD MALE		PART NUMBER
in.		BSP
1/4		894 016 944 4
3/8		894 016 944 5
1/2		894 016 944 6
3/4		894 016 944 7
1		894 016 944 8

## CONNECTOR REDUCER



THREAD MALE		THREAD FEMALE	PART NUMBER
in.	in.		BSP
1/4	1/8		894 016 944 9
3/8	1/4		895 101 182 3
1/2	1/4		895 101 183 9
1/2	3/8		895 101 182 8
3/4	1/2		894 016 945 0
1	3/4		894 016 945 1

## CONNECTOR REDUCER BRASS



THREAD MALE		THREAD FEMALE	PART NUMBER
in.	in.		BSP
1/8	1/4		894 016 945 2
1/4	3/8		894 016 945 3
3/8	1/2		894 016 945 4

## HOSE STEMS



INNER HOSE DIAMETER		PART NUMBER
in.	mm	BSP
1/4	6	895 101 179 8
3/8	9	895 101 179 9
1/2	13	895 101 180 0

## ADAPTERS



THREAD MALE		THREAD FEMALE	PART NUMBER
BSP	NPT		
1/8	1/8		61103
1/4	1/4		181523
3/8	3/8		894 016 979 7

## DOUBLE CONNECTOR

THREAD MALE		THREAD MALE	PART NUMBER
in.	in.		BSP
1/8	1/8		894 016 945 5
1/8	1/4		894 016 945 6
1/4	1/4		895 101 182 2
1/4	3/8		895 101 182 4
3/8	3/8		895 101 182 1
3/8	1/2		895 101 182 5
1/2	1/2		895 101 182 7
1/2	3/4		894 016 945 7
3/4	3/4		894 016 945 8
3/4	1		894 016 945 9
1	1		894 016 946 0

## HOSE CONNECTION



THREAD INNER		PART NUMBER
male in.	hose diameter	BSP
1/4	6mm	895 101 180 1
1/4	9mm	895 101 180 2
3/8	9mm	895 101 180 3
3/8	13mm	895 101 180 4
1/2	13mm	895 101 180 5
1/2	16mm	895 101 180 6

## MANIFOLD

3/8" inlet on each side - 1/4 outlets 1 side for couplings



CONNECTION THREAD		OUTLET NUMBER	PART NUMBER
inlet in.	outlet in.		BSP
3/8	1/4	4	894 016 941 0
3/8	1/4	5	894 016 941 1
3/8	1/4	6	894 016 941 2

## MANIFOLD

3/8" inlet on each side - 1/4 outlets both side couplings



CONNECTION THREAD		OUTLET NUMBER	PART NUMBER
inlet in.	outlet in.		BSP
3/8	1/4	4	894 016 941 3
3/8	1/4	6	894 016 941 4
3/8	1/4	8	894 016 941 5
3/8	1/4	10	894 016 941 6

# Other Accessories

## LUBRICATION

### OIL PROTECTO-LUBE



DESCRIPTION		PART NUMBER
4 oz. (0.12 l)	Air Tool Oil	CA149661
20.8 oz. (0.591 l)	Air Tool Oil	CA000046
1gal. (3.8 l)	Airoilene Oil	P089507

### MINI OILER



DESCRIPTION	PART NUMBER
THREAD 1/4" NPT	205 052 412 3
THREAD 3/8" NPT	205 052 429 3

### AIR FLOW REGULATOR



DESCRIPTION	PART NUMBER
Economic flow regulator 1/4"	LC121737
Heavy-duty flow regulator 1/4"	CA085203

### BLOW GUN



DESCRIPTION	PART NUMBER
Blow gun standard	615 811 269 0
Blow gun standard silencer	615 811 270 0
Blow gun extended nozzle	615 811 271 0
Blow gun extended nozzle silencer	615 811 272 0

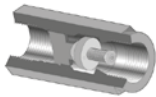
## AIR FUSES

When a fitting comes loose from a pressurized hose or the hose is damaged, the hose starts to blow an excessive amount of air in an uncontrolled way, causing hose whip. This can cause injury, and damage to the workpiece and environment.

A way to ensure that this doesn't happen is to use an Air Fuse

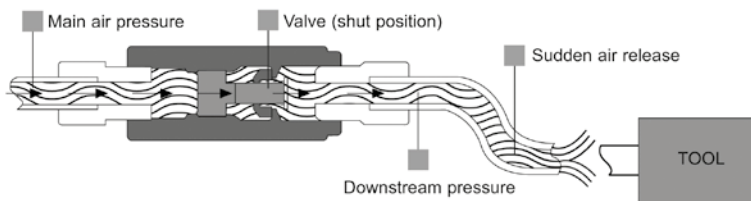
It reduces the likelihood of potentially dangerous hose whip caused when a hose bursts or a fitting becomes detached. It quickly shuts off the supply and resets automatically as soon as back pressure in the line downstream is restored.

Air Fuses help to meet OSHA requirement 1926.302 (USA) and may eliminate the need for restraining or shielding hose, as required by European Standard EN983.



#### MATERIALS

Body	Anodised aluminium
Internal parts	Brass
Spring	Stainless steel



- Reduces risk of hose whip, helping to protect personnel
- Simple and reliable design
- High life expectancy
- Aluminium anodised body for high corrosion resistance
- Auto-Reset to restart downstream activity with the minimum downtime

PORT SIZE	PRESSURE DROP AT SHUT OFF FLOW		SHUT OFF FLOW RATE AT 7 BAR		TOOL MAXIMUM AIR FLOW		FOR FLOW RATES	PART NUMBER	
	in.	bar	psi	l/s	cfm	l/s		cfm	BSP
1/4	0.14	2.03	7.8	16.4	5	10.5	Low	615 811 242 0	615 811 245 0
1/4	0.30	4.35	13	27.3	10	21.0	High	110402	615 811 246 0
3/8	0.14	2.03	18	37.8	10	21.0	Low	110422	615 811 247 0
3/8	0.30	4.35	32	67.2	25	52.5	High	110432	615 811 248 0
1/2	0.30	4.35	45	94.5	35	73.5	High	110442	615 811 249 0
3/4	0.30	4.35	75	157.5	60	126.0	High	615 811 243 0	615 811 250 0
1	0.30	4.35	86	180.6	70	147.0	High	615 811 244 0	110542

## TEST EQUIPMENT

### AIR TOOL SIMULATOR / AUDIT CASE



DESCRIPTION	PART NO.
Air tool simulator	615 811 009 0
Audit case	615 811 353 5

Air tool simulator:

To check whether the pressure or air flow is sufficient  
The air tool simulator will be connected instead of the pneumatic tool  
Supplied with different connections

Audit case:

Intended to conduct tests measuring the dynamic pressure at the tool inlet  
Supplied with different connections

# More Than Productivity



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