



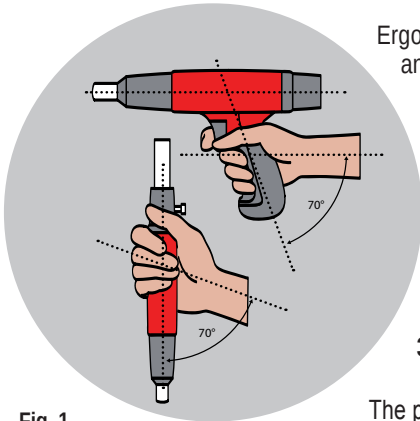


Fig. 1
Holding tools in
an ergonomically
neutral position

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

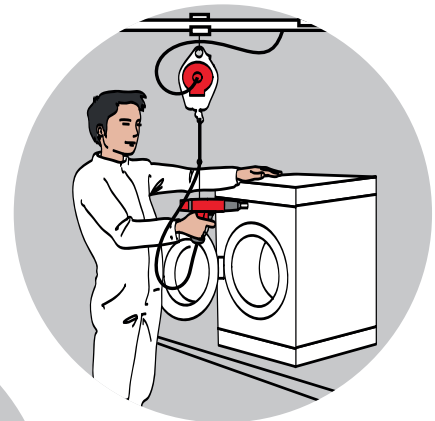


Fig. 2
Desoutter balancer

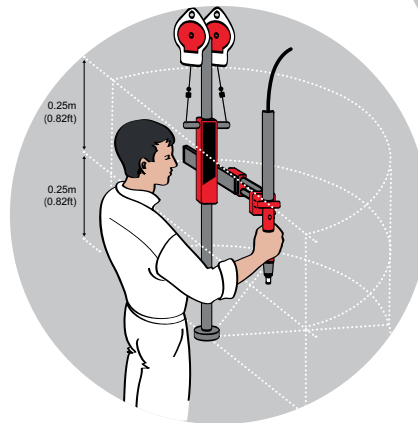
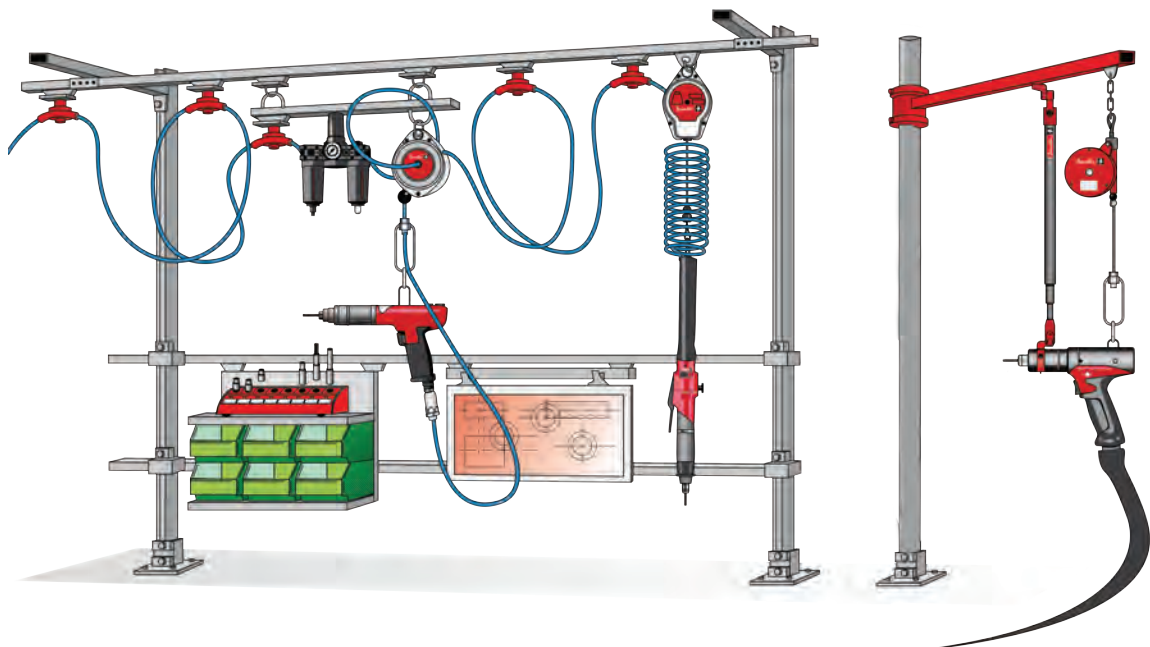
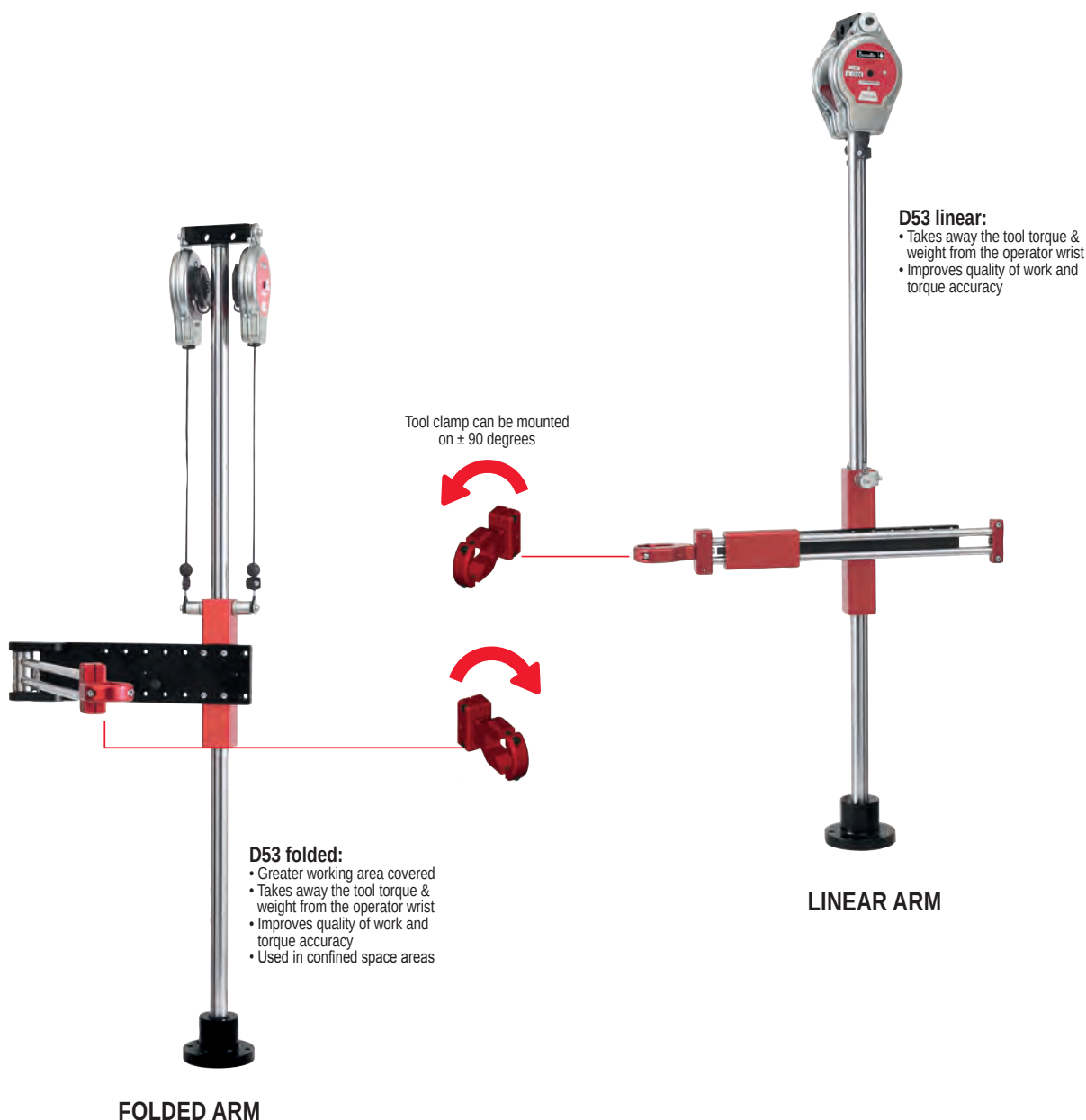


Fig.3
Desoutter torque
reaction arm



Linear and Folded torque reaction arms

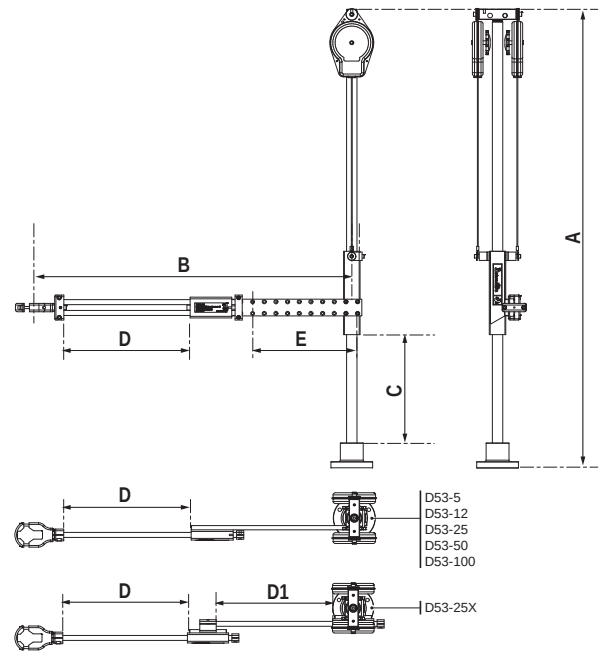
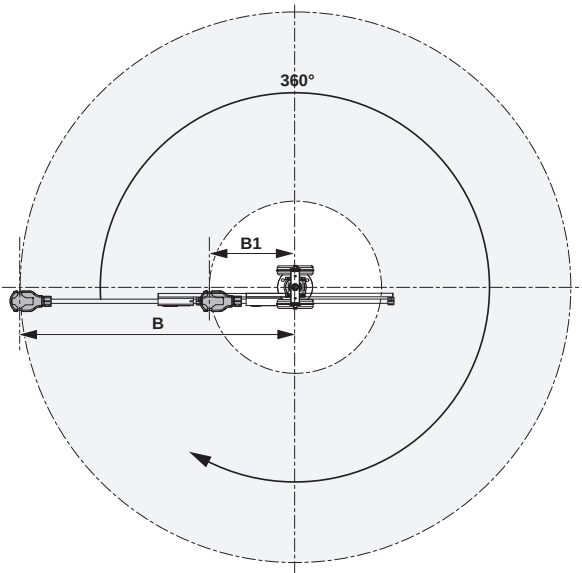


For full tool clamp program, please see details on page 162

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.
LINEAR ARM								
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		
FOLDED ARM								
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

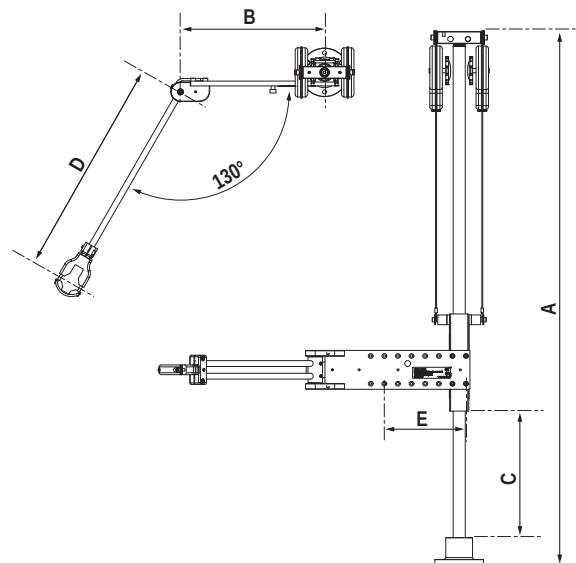
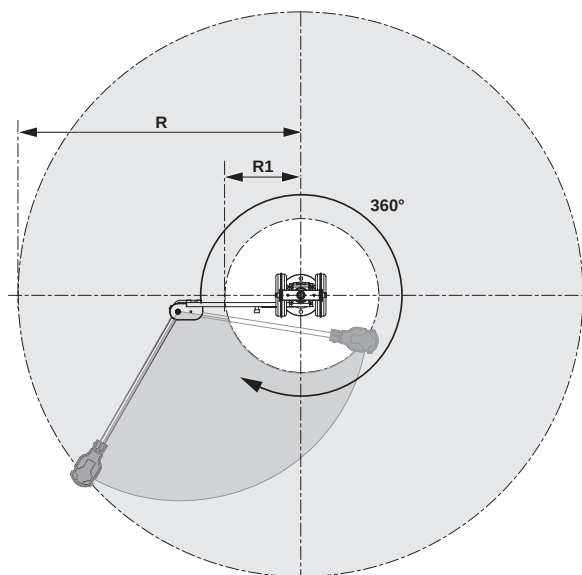
D53 - Dimensions



D53 linear working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH				VERTICAL STROKE		HORIZONTAL STROKE		FIXED STROKE E	TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	MAXI-B	MINI-B			C		D	D1		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	-	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	-	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	-	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	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	-	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	-	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



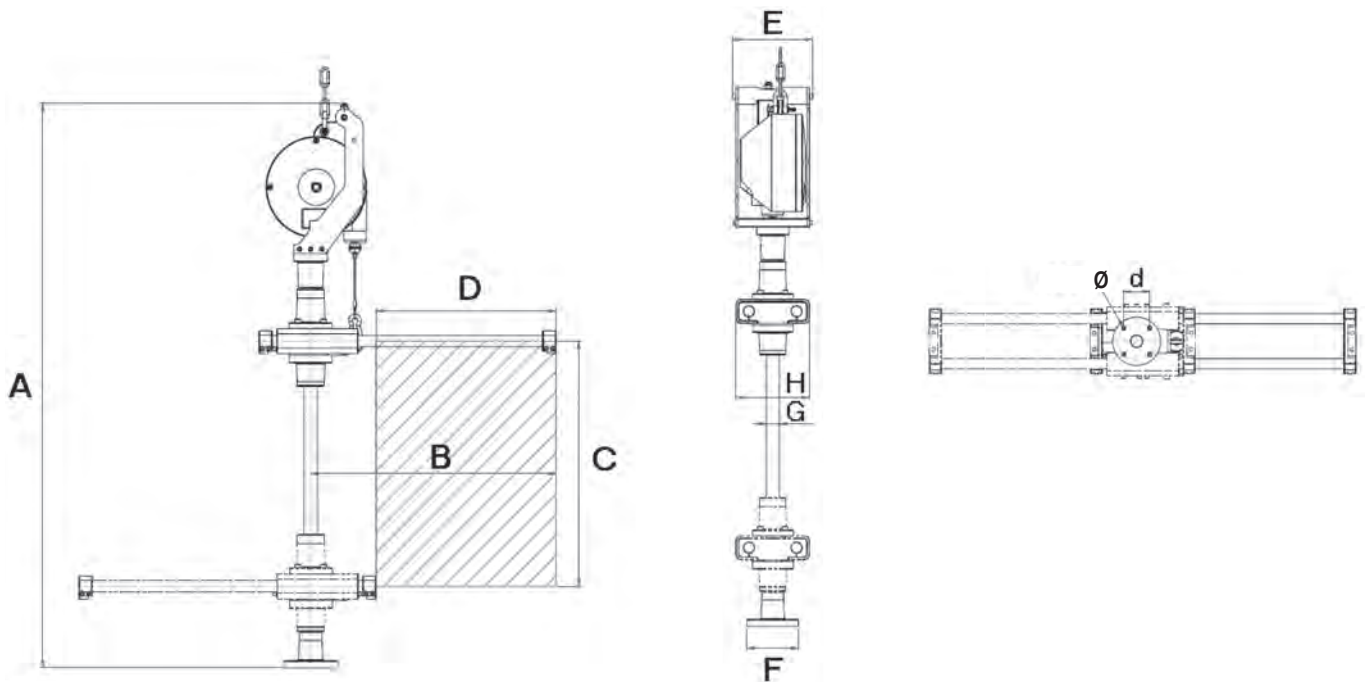
D53-150/1000 linear:

- 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	To order separately contact your Desoutter representatives
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	



D53HT - Dimensions



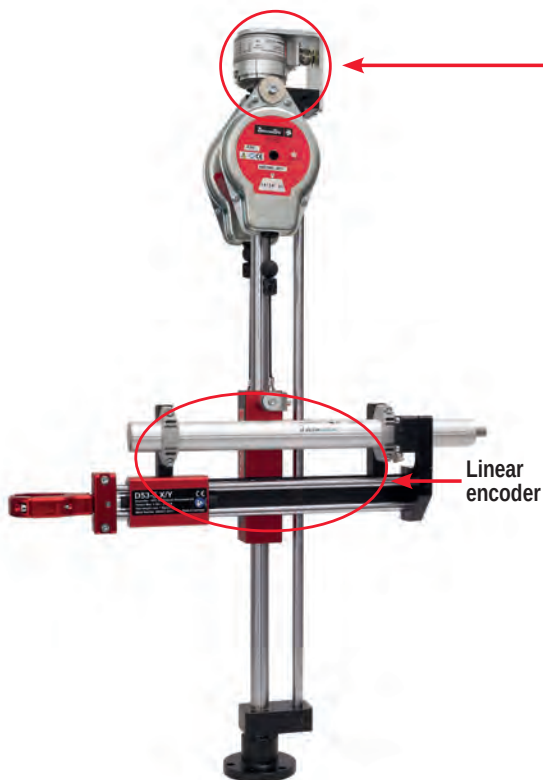
MODEL	PART NUMBER	HEIGHT A		WIDTH (WO/CLAMP)				VERTICAL STROKE				TOOL WEIGHT	
		mm	in	MIN-B		MAX-B		MIN-C		MAX-C		kg	lb
D53-150	615 811 658 0	1049	41.3	240	9.4	600	23.6	154.5	6.1	644	25.4	7	15.4
D53-150XL	615 811 659 0	1159	45.6	240	9.4	840	33.1	154.5	6.1	754	29.7	6	13.2
D53-300	615 811 660 0	1216	47.9	260	10.2	660	26.0	180.0	7.1	720	28.3	14	30.9
D53-300XL	615 811 661 0	1296	51	260	10.2	860	33.9	180.0	7.1	780	30.7	12.5	27.6
D53-500	615 811 662 0	1346	53	290	11.4	730	28.7	209.5	8.2	815	32.1	30	66.2
D53-500XL	615 811 663 0	1561	61.5	290	11.4	1090	42.9	209.5	8.2	1009	39.7	27.4	60.4
D53-1000	615 811 664 0	1556	61.3	320	12.6	800	31.5	278.5	11.0	968	38.1	21	46.3
D53-1000XL	615 811 665 0	1691	66.6	320	12.6	1120	44.1	278.5	11.0	1078	42.5	18	39.3

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

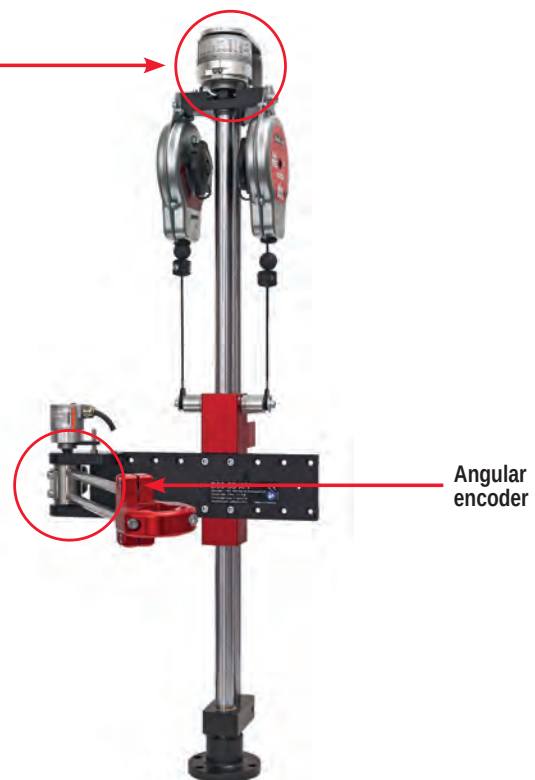
MODEL	D		Ø		ARM WEIGHT	
	mm	in	mm	in	kg	lb
D53-150	50	2.0	11	0.4	12.5	27.6
D53-150XL	50	2.0	11	0.4	13.7	30.2
D53-300	65	2.6	11	0.4	26.7	58.9
D53-300XL	65	2.6	11	0.4	28.2	62.2
D53-500	65	2.6	11	0.4	40.9	90.2
D53-500XL	65	2.6	11	0.4	43.7	96.3
D53-1000	72	2.8	13.5	0.5	57.9	127.7
D53-1000XL	72	2.8	13.5	0.5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

D53 X/Y - Positioning arms for Posco 500

- D53 X/Y stands allows to track the tool position during assembly process
- Same tool stand as D53 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



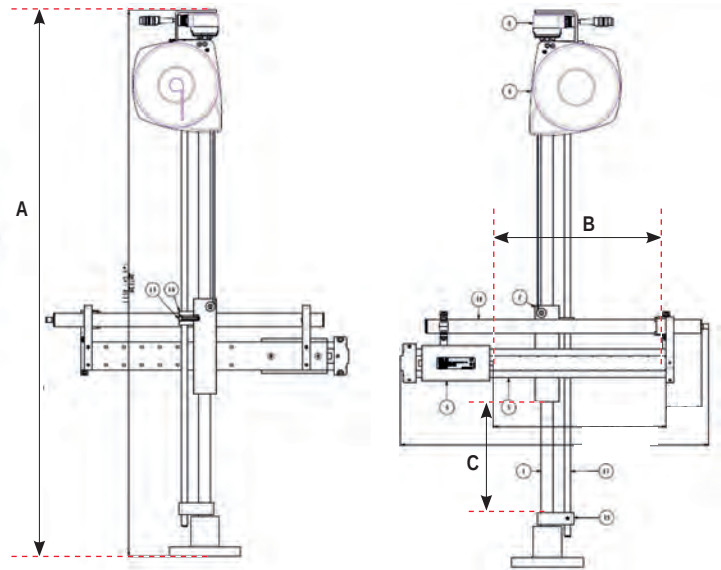
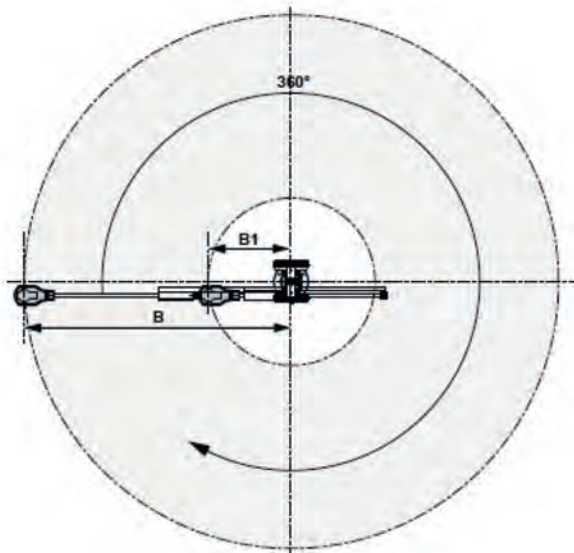
FOLDED ARM

For full tool clamp program, please see details on page 154

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.
LINEAR ARM								
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	To order separately	
D53-100 X/Y AXLE*	615 397 878 0	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
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	To order separately	
D53-100S X/Y AXLE	615 397 883 0	100	73.7	6.0	13.2	2 x 22D		

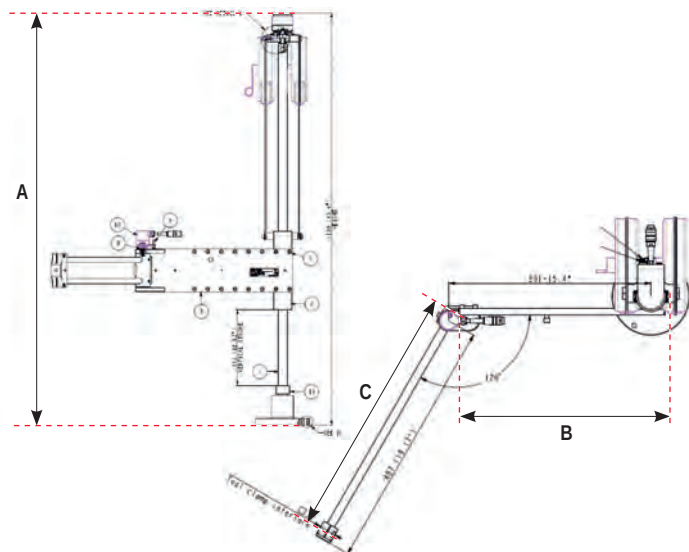
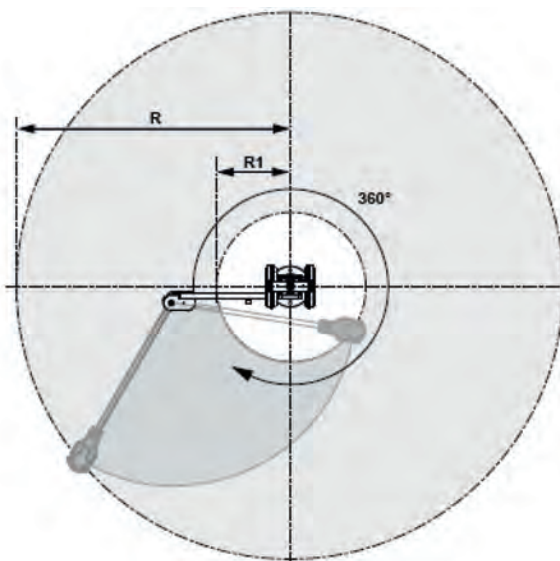
(*) Universal D53 tool clamp included

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

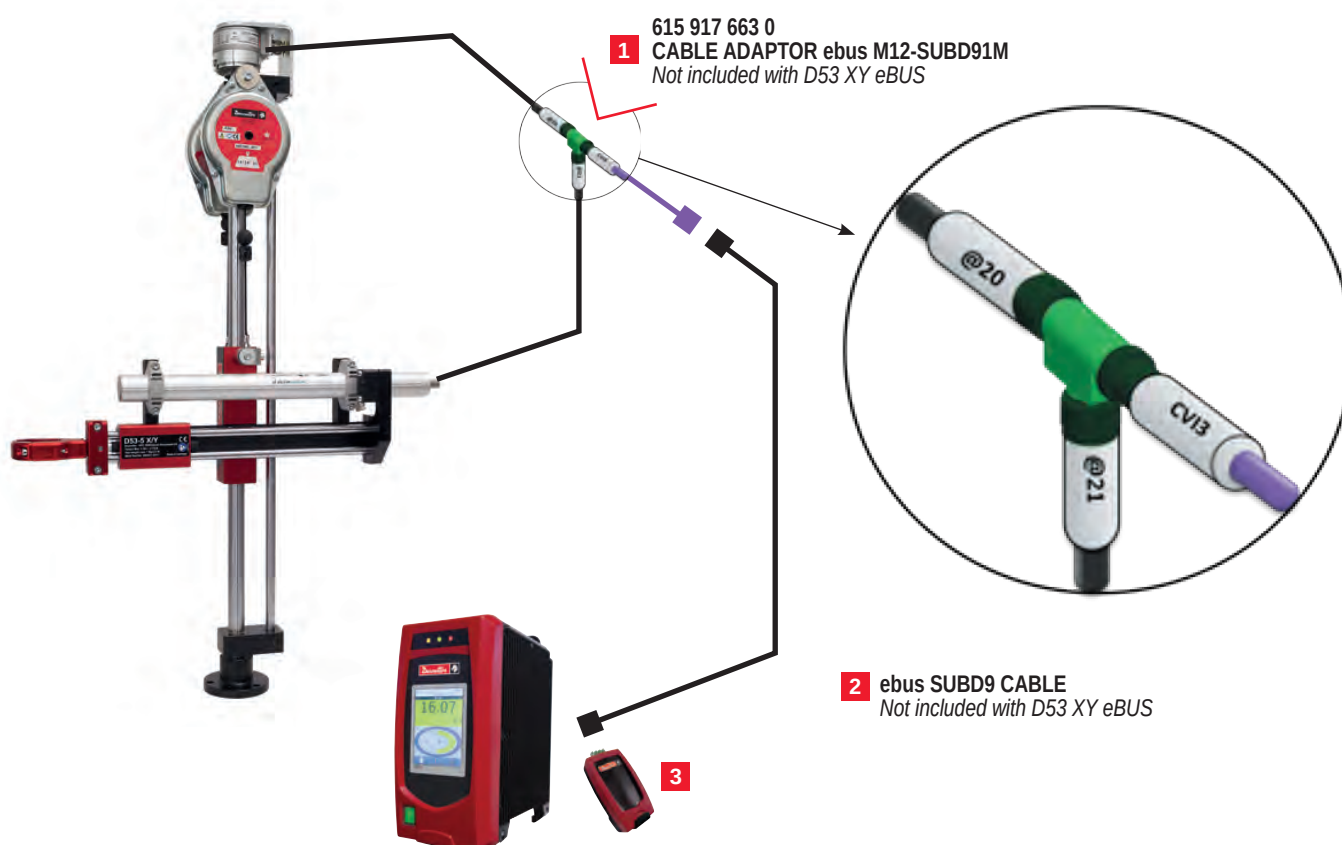
MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 397 879 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 397 880 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 397 881 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S 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

D53 X/Y – Positioning arms for CVI3

- D53 X/Y CANopen stands allows to track the tool position during assembly process
- Same tool stand as D53 standard one
- 2 different versions with encoders
- This arm is intended to be used together with our CVI3 controller
- Connected directly to the CVI3 controller
- Needs ePOD 2 or higher
- Easy positioning learning mode

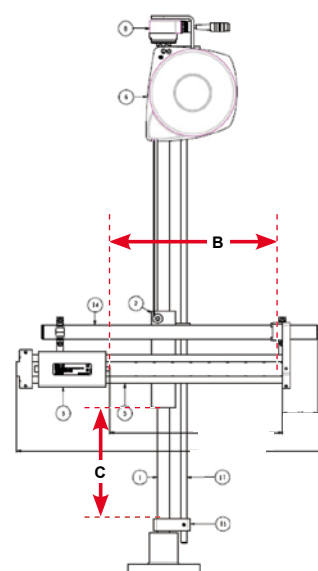
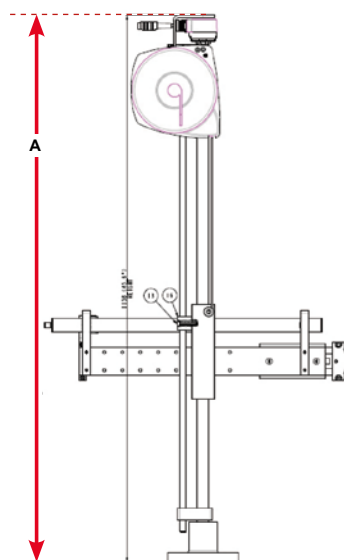
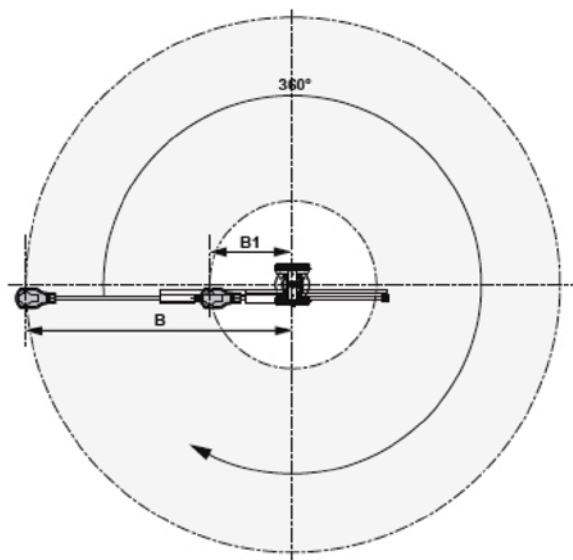
ACCESSORIES NEEDED :

- 1** Cable adaptor EBUS M12 / SUBD9 6159176630
- 2** Select one of them :
 - eBUS SUBD9 cable 3m 6159176080
 - eBUS SUBD9 cable 5m 6159176090
 - eBUS SUBD9 cable 15m 6159176100
- 3** Select one ePOD :
 - ePOD2 6159360760
 - ePOD3 6159360770



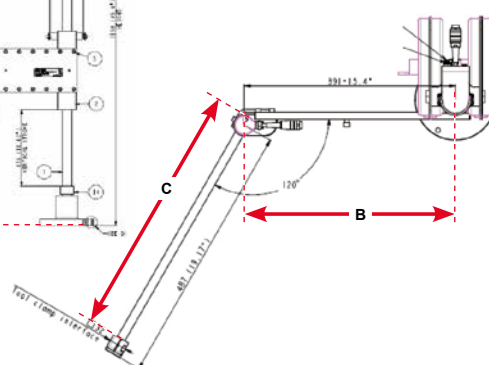
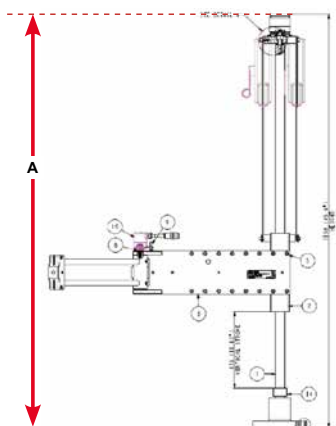
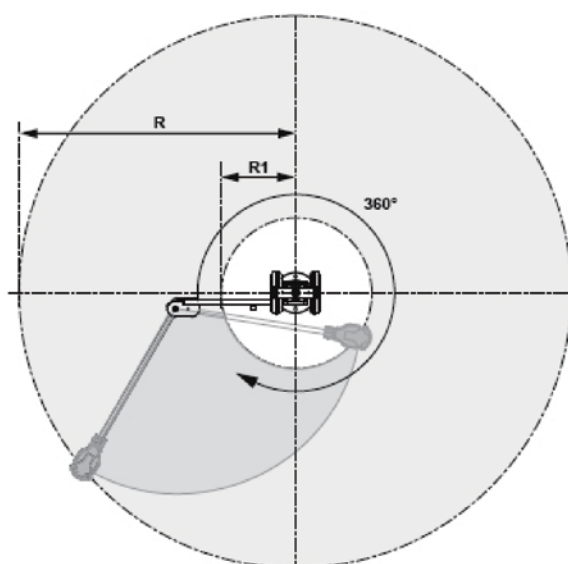
MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5 X/Y-AXLE EBUS	615 812 267 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12 X/Y-AXLE EBUS	615 812 268 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25 X/Y-AXLE EBUS	615 812 269 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50 X/Y-AXLE EBUS	615 812 270 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100 X/Y-AXLE EBUS	615 812 271 0	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
D53-5S X/Y-AXLE EBUS	615 812 272 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S X/Y-AXLE EBUS	615 812 273 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S X/Y-AXLE EBUS	615 812 274 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S X/Y-AXLE EBUS	615 812 275 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S X/Y-AXLE EBUS	615 812 276 0	100	73.7	6.0	13.2	2 x 22D		

D53 X/Y – Positioning arms for CVI3



Linear arm

MODEL	PART NUMBER	A		B		C	
		mm	in.	mm	in.	mm	in.
D53-5 X/Y-AXLE	615 812 267 0	789	31.1	206.5	8.1	281	11.1
D53-12 X/Y-AXLE	615 812 268 0	945	37.2	238.5	9.4	436	17.2
D53-25 X/Y-AXLE	615 812 269 0	1189	46.8	291.5	11.5	586	23.1
D53-50 X/Y-AXLE	615 812 270 0	1189	46.8	259.5	10.2	486	19.1
D53-100 X/Y-AXLE	615 812 271 0	1189	46.8	398.5	15.7	486	19.1

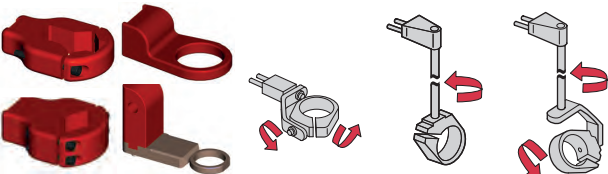


Folded arm

MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 812 272 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 812 273 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 812 274 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S X/Y AXLE	615 812 275 0	1158	45.6	336	13.2	440	17.3	698	27.5	154	6.1
D53-100S X/Y AXLE	615 812 276 0	1158	45.6	391	15.4	490	19.3	788	31	158	6.2

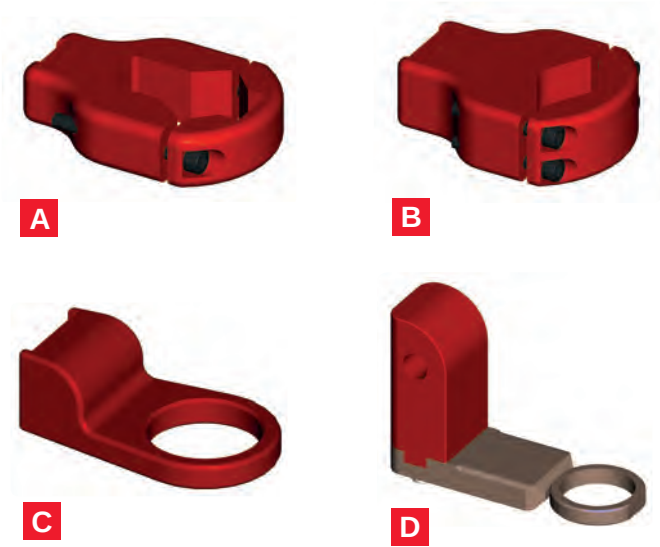
Tool clamp guide for D53 arms

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 SLBN SLC(P) Nose mount ECS/ERS/ECD 5	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * 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
SD/SDP/SDT ERP 3/5/10/20 ECP 3/5/10/20	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * 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
SLC Top mount	D53-5 / D53-12	D53-5S D53-12S	615 810 838 0 NOT Included To be ordered (B) 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
ECA 15/20/30	D53-5 D53-12 D53-25	D53-5S D53-12S D53-25S	615 810 838 0 NOT Included To be ordered (B) 40-50 mm				
SH 150/200/280/420/500 SH 700/850 ERP 30/40 ERAL1.5/2 ECS/ERS	D53-25(X) D53-50 D53-100	D53-25S(X) D53-50S D53-100S	615 811 029 0 NOT Included To be ordered (B) 28-55 mm				
ERDL 4 ECD 50/70/120	D53-50 / D53-100	D53-50S D53-100S	615 810 203 0 NOT Included To be ordered (C)				
EID 44-1200 EID 75-900 EID 65-800	D53-50 / D53-100	D53-50S D53-100S	615 812 136 0 NOT Included To be ordered (C)				
ERDL 6	D53-100	D53-100S	615 810 205 0 NOT Included To be ordered (C)				
ECD20/30	D53-25(X) D53-50	D53-25S(X) D53-50S	615 810 628 0 + 615 396 191 0 NOT Included To be ordered (D)				Parts to be welded
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



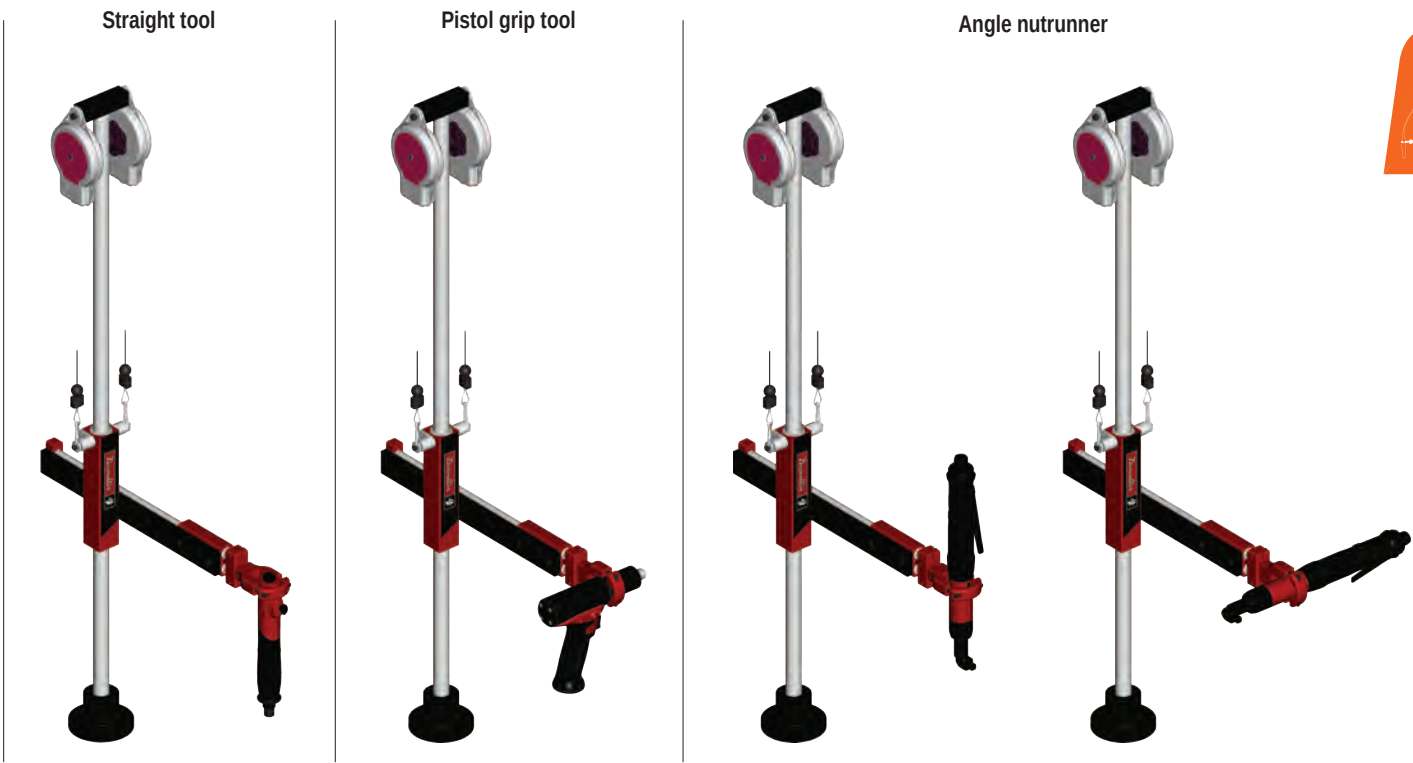


E

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 positionning



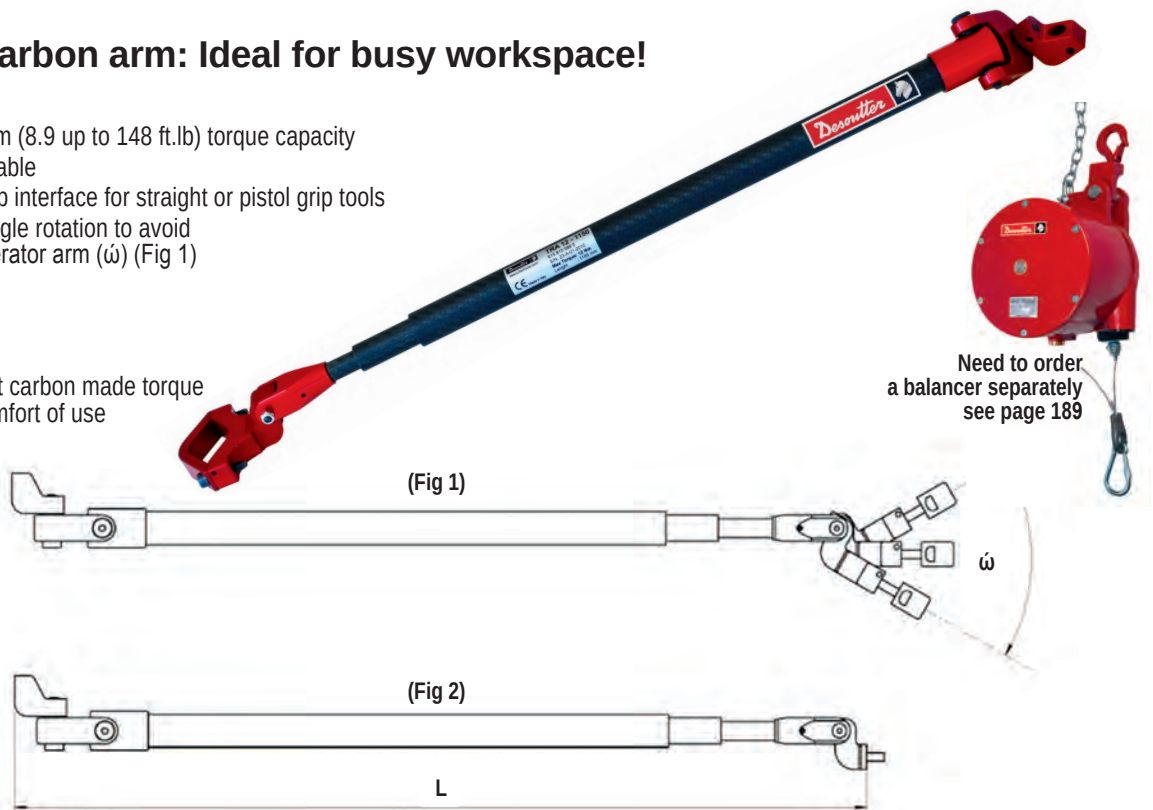
TRA - Telescopic reaction arms

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 (ω) (Fig 1)

Benefits:

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



Need to order a balancer separately see page 189



** Universal balancer adapter

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

MODEL	PART NUMBER	MAXIMUM TORQUE		MAX. MIN LENGTH L		ω (DEG)	WEIGHT		TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	mm	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	To order separately (see page 182)	
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		

(*) 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 for Posco 500

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

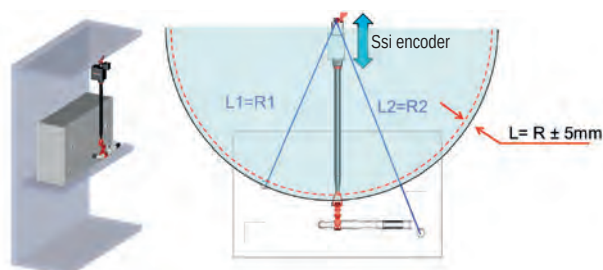


Need to order a balancer separately See page 189

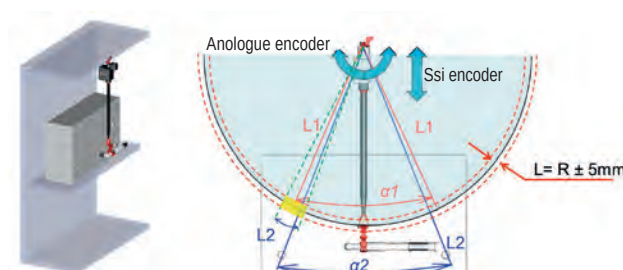


**Universal balancer adapter

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 (page 182)	
TRA 200 2100 P	615 811 688 0	1	200	147.4	2317	91		
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 (page 182)	
TRA 200 2100 P2	615 811 689 0	2	200	147.4	2317	91		

(*) Universal TRA tool clamp included

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

TRA X/Y – Positionning arms for CVI3

Same telescopic arms as the standard one: up to 200Nm (148 ft.lb.) torque capacity

- TRA X/Y CANopen arms allows to track the tool position during assembly process
- 2 different versions:
 - 1 encoder: length measurement
 - 2 encoders: length measurement + angle control
- This arm is intended to be used together with our CVI3 controller
- Accuracy: +/- 5mm
- Connected directly to the CVI3 controller
- Needs ePOD 2 or higher
- Easy positioning learning mode

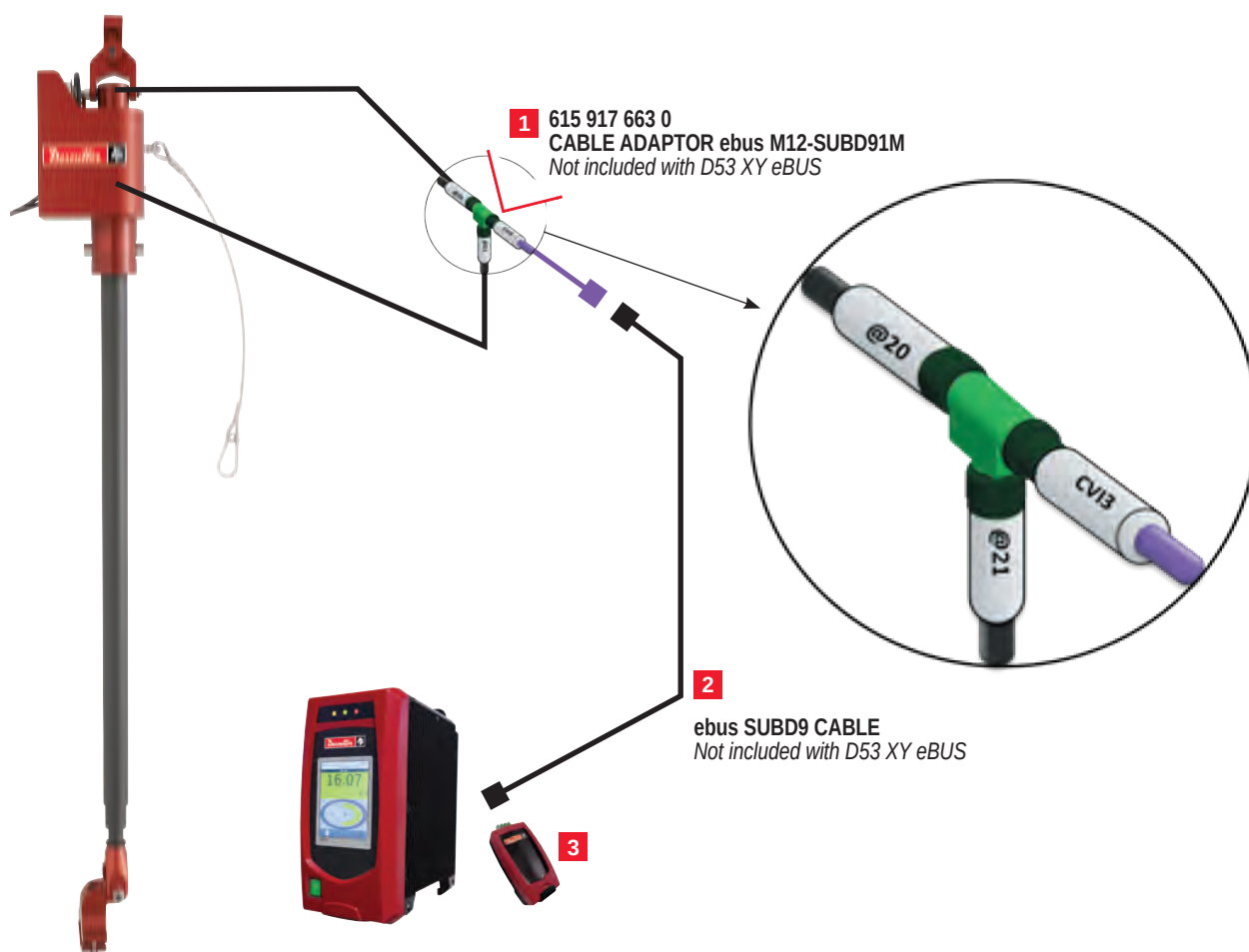
ACCESSORIES NEEDED :

- 1** Cable adaptor EBUS M12 / SUBD9 6159176630
- 2** Select one of them :

eBUS SUBD9 cable 3m	6159176080
eBUS SUBD9 cable 5m	6159176090
eBUS SUBD9 cable 15m	6159176100
- 3** Select one ePOD :

ePOD2	6159360760
ePOD3	6159360770

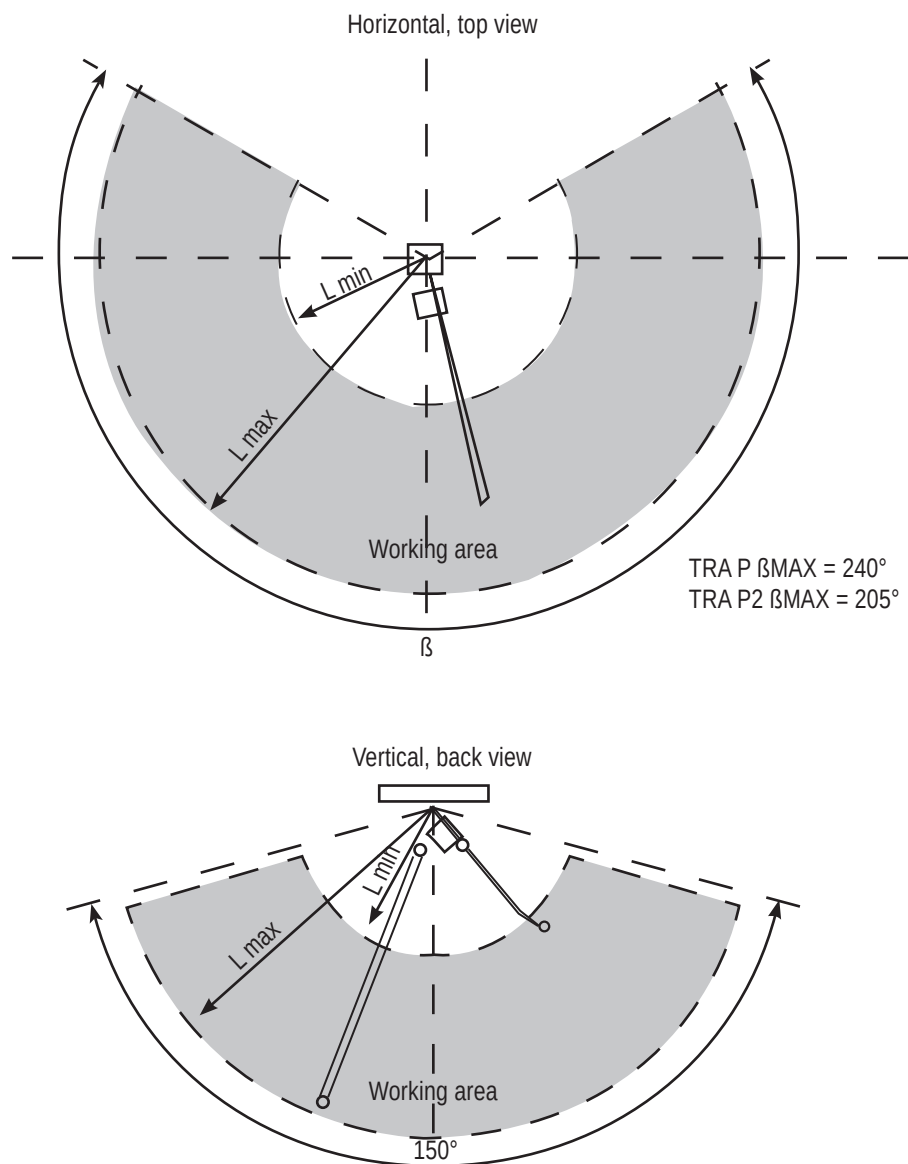
 - Needs ePOD 2 or higher
 - Easy positioning learning mode



TRA X/Y – Positioning arms for CVI3

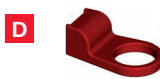
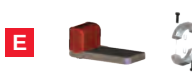
MODEL	PART NUMBER	TORQUE MAX		L MIN		L MAX		STROKE		WEIGHT	
		Nm	Ft.lb	mm	in	mm	in	mm	in	kg	lb
TRA 12 1600 P UNI	615 812 102 0	12	8.9	883.5	34.78	1762	69.4	887.5	34.6	4	8.8
TRA 25 2100 P UNI	615 812 103 0	25	18.4	1053.5	41.47	2259	88.9	1205.5	47.5	4.2	9.3
TRA 50 2100 P UNI	615 812 104 0	50	36.9	1105	43.5	2311	91	1206	47.5	4.6	10.1
TRA 100 2100 UNI	615 812 105 0	100	73.8	1080	42.5	2315	91.15	1235	48.6	4.8	10.6
TRA 200 2100 P UNI	615 812 106 0	200	148	1085	42.7	2317	91.2	1232	48.5	6.4	14.1
TRA 12 1600 P2	615 812 107 0	12	8.9	883.5	34.78	1762	69.4	887.5	34.6	4.2	9.3
TRA 25 2100 P2	615 812 108 0	25	18.4	1053.5	41.47	2259	88.9	1205.5	47.5	4.4	9.7
TRA 50 2100 P2	615 812 109 0	50	36.9	1105	43.5	2311	91	1206	47.5	4.8	10.6
TRA 100 2100 P2	615 812 110 0	100	73.8	1080	42.5	2315	91.15	1235	48.6	5	11
TRA 200 2100 P2	615 812 111 0	200	148	1085	42.7	2317	91.2	1232	48.5	6.8	15

TRA X/Y CANopen - Dimensions



The new 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	
STEP 1	STEP 2	STEP 3			
TOOL MODEL	TRA MODEL	TOOL CLAMP REFERENCE	DESCRIPTION	PHOTO	
SB/SBP SC2/SCP/SCPT SD/SDP/SDT SH 70/150/200/280 SLBN/SLC/SLCP ECS ERP 3/5/10/20 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")	A	
ERP 30/40 ERDL 1,5/2 ERAL 4-90	TRA50* / 100 * Clamp included with the arm	6158101370 Included with TRA50. To be ordered for TRA100	Universal Clamp 28 - 50mm (1.1 - 1.97")	B	
SH 420/500	TRA50 TRA100	6158129030 + 6158128940 6158129040 + 6158128940		C	
SH 700	TRA50 TRA100	6158129030 + 6158129000 6158129040 + 6158129000		C	
SH 850	TRA 100	6158128940 + 6158128970		C	
ERAL 1,5/2	TRA50, TRA100	6158129030 + 6158128890 6158129040 + 6158128890		C	
ERAL 4	TRA50, TRA100	6158129030 + 6158128960 6158129040 + 6158128960		C	
ECA 15/20/30	TRA 50	6158129030 + 6158128930		C	
ECA 40/60	TRA 100	6158129040 + 6158128930		C	
EAD 20/32 EAB(C) 26/32/45	TRA50	6158129030 + 6158128880		C	
EAD 50-900	TRA50 TRA100	6158129030 + 6158128910 6158129040 + 6158128910		C	
EAD 70/80/105 EAB(C) 60	TRA50 TRA100	6158129030 + 6158128950 6158129040 + 6158128950		C	
ERDL 4 - 60/80/135 ECD 50/70/120 EID 44/65/75	TRA100 TRA200	6158102030 for TRA100 6158102020 for TRA200 NOT Included with the arm To be ordered	Spline G1 D40,5	D	
ERDL 6 - 170/220/250	TRA200	6158102040 NOT Included with the arm To be ordered	Spline G1 D50	D	
EDP EID 25/32	TRA 50	6158106280 + 6153965515 NOT Included with the arm To be ordered	Clamp to be welded	E	
ECD 20/30	TRA 50	6158106280 + 6153961910 NOT Included with the arm To be ordered	Clamp to be welded	E	
ECA 70/90/115/125/150	TRA 100	6158129040 + 6158128980		C	
ERAL 4 - 225 ECA 200	TRA200	6158106310 + 6153962300 NOT Included with the arm To be ordered	Clamp to be welded	E	

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



Torque Tubes



Telescopic arm for vertical and horizontal fastening applications

- From 0 to 100 Nm (0 to 73.7ft.lb) torque capacity
- Different strokes available
- Designed to be used with all Desoutter tools
- Gravity center adjustment and rigid fixation as options



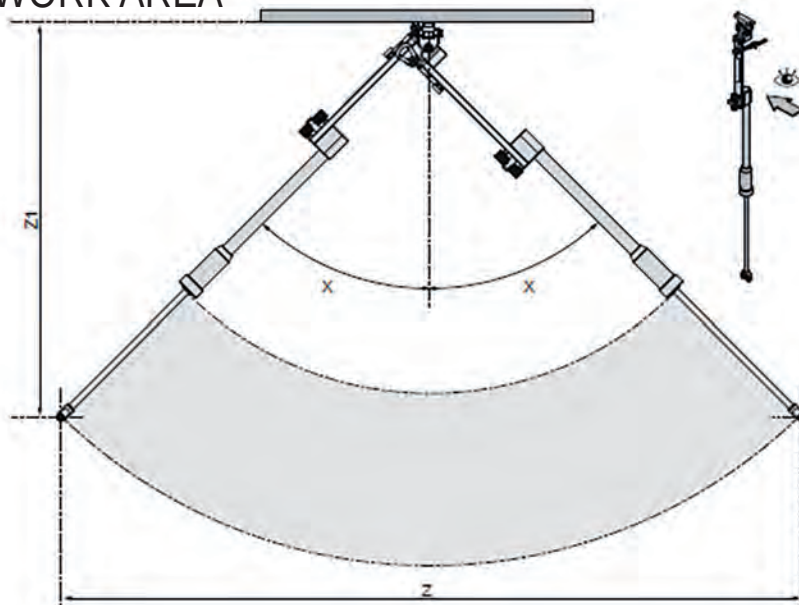
MODEL	PART NUMBER	MAX TORQUE		STROKE		WEIGHT	
		Nm	ft lb	mm	in	kg	lb
TT10-850/300	615 812 260 0	12	8.9	300	11.8	1.4	3.1
TT25-1150/300	615 812 082 0	25	18.4	300	11.8	3.5	7.8
TT25-1600/600	615 812 261 0	25	18.4	600	23.6	3.9	8.7
TT50-1700/600	615 812 262 0	50	36.9	600	23.6	5.3	11.7
TT50-2100/900	615 812 263 0	50	36.9	900	35.4	6.3	13.8
TT100-1700/600	615 812 264 0	100	73.7	600	23.6	8.6	18.9
TT100-2100/900	615 812 265 0	100	73.7	900	35.4	10	22

OPTIONAL ACCESSORIES

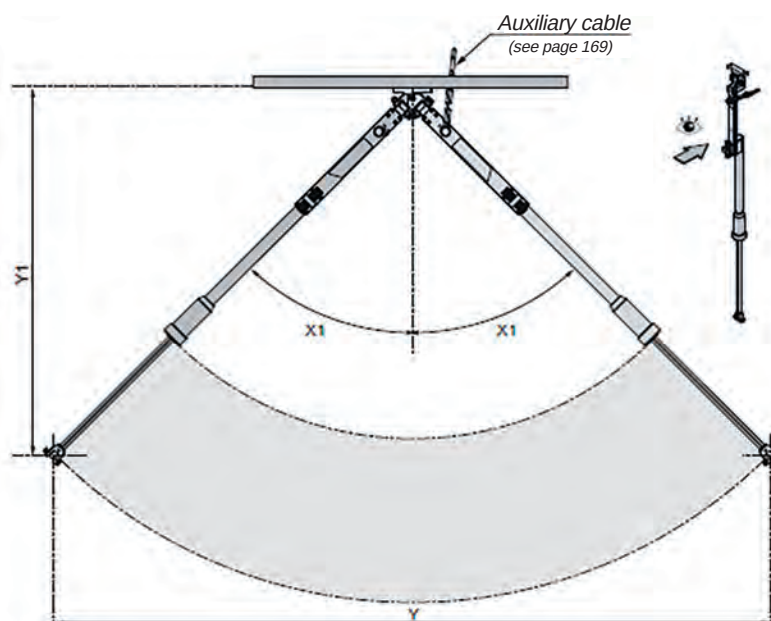
PART NUMBER	DESCRIPTION	FOR TORQUE TUBE	
615 812 203 0	Gravity center adjustment	TT10	
615 812 149 0	Gravity center adjustment	TT25	
615 812 532 0	Gravity center adjustment	TT50	
615 812 539 0	Gravity center adjustment	TT100	
615 812 211 0	Rigid fixation	TT10	
615 812 157 0	Rigid fixation	TT25	
615 812 535 0	Rigid fixation	TT50 / 100	
615 812 141 0	Balancer DU fixation	TT10 / 25	
615 812 145 0	Balancer D fixation	TT25/50	
615 812 522 0	Balancer DF fixation	TT50 / 100	

Torque Tubes

WORK AREA



MODEL	PART NUMBER	X	Z MAX ± 5		Z1 MAX ± 5	
		Deg	mm	in	kg	lb
TT10-850/300	615 812 260 0	45	1378	54.25	723.8	28.5
TT25-1150/300	615 812 082 0	45	1508.4	59.39	819	32.2
TT25-1600/600	615 812 261 0	45	2356.9	92.8	1243.3	48.9
TT50-1700/600	615 812 262 0	45	2552	100.5	1362	53.6
TT50-2100/900	615 812 263 0	45	340.3	13.4	1786.45	70.3
TT100-1700/600	615 812 264 0	45	2583.1	101.7	1377.67	54.2
TT100-2100/900	615 812 265 0	45	3431.6	135.1	1801.94	70.9



MODEL	PART NUMBER	X	Y MAX ± 5		Y1 MAX ± 5	
		Deg	mm	in	kg	lb
TT10-850/300	615 812 260 0	45	1403.5	55.3	721.9	28.42
TT25-1150/300	615 812 082 0	45	1562.1	61.5	807.8	31.8
TT25-1600/600	615 812 261 0	45	2410.6	94.9	1232	48.5
TT50-1700/600	615 812 262 0	45	2626.8	103.4	1342.6	52.9
TT50-2100/900	615 812 263 0	45	3475.4	136.8	1766.9	69.6
TT100-1700/600	615 812 264 0	45	2657.1	104.6	1357.6	53.4
TT100-2100/900	615 812 265 0	45	3505.6	138.0	1781.8	70.2

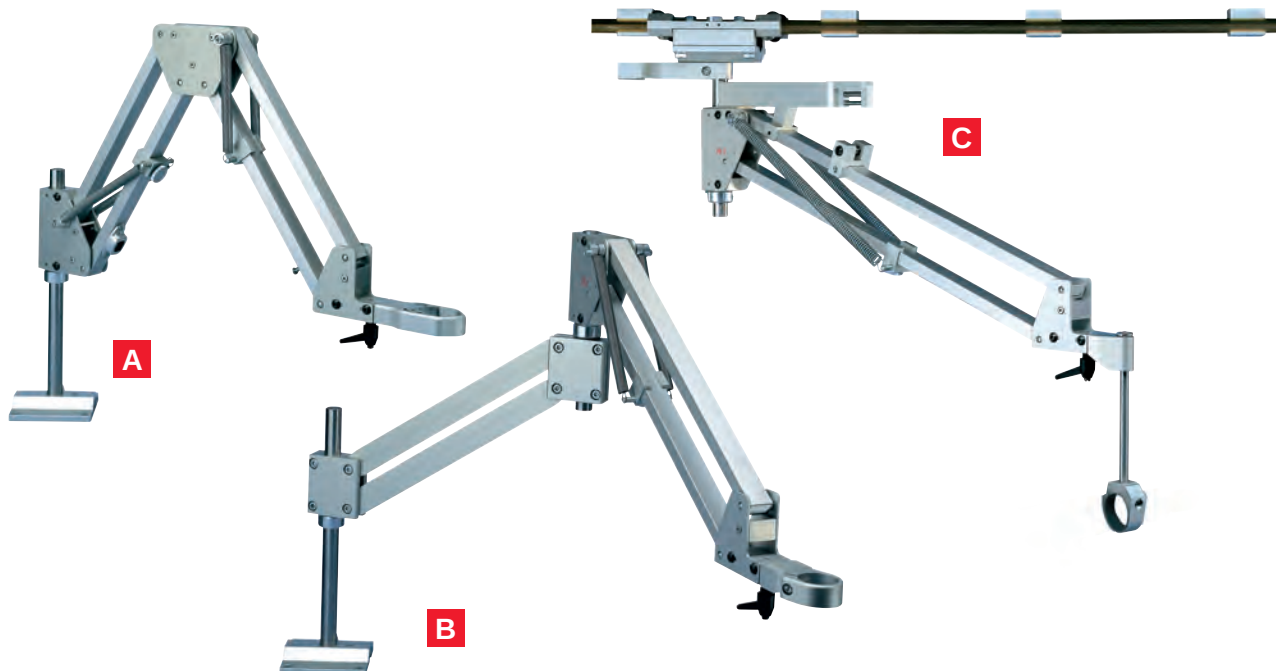


Tool clamp guide for TT arms

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED	ADD THE TOOL CLAMP		ADD THE BALANCER KIT + BALANCER	ADD OPTIONS IF NEEDED
STEP 1 TOOL MODEL	STEP 2 TT MODEL	STEP 3 TOOL CLAMP REFERENCE	PICTURE	STEP 4 BALANCER KIT AND BALANCER REFERENCES	STEP 5 OPTIONS
SB, SC2, SD, SLC, ECD5 ECS(A-F), ERS(A-F) ERDL 1.5-12, SLBN	TT10 : 6158122600	6158122150	A	6158121410 Balancer DU fixation 4DU: 50532 / 4DU: 50532 5DU: 50542 / 4DU: 50532 5DU: 50542 / 5DU: 50542 5DU: 50542 / 5DU: 50542 5DU: 50542	Gravity center adjustment: 6158122030 Rigid fixation : 6158122110
SD 070/072, SCLP	TT10 : 6158122600	6158122180		6158121410 Balancer DU fixation 5DU: 50542	Gravity center adjustment: 6158122030 Rigid fixation : 6158122110
SH 70/150	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122200		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ECS (A-F), ERS (A-F) ECD30, SLBN 120 SD 130/140/160/220	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121610	A	6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
EID 25	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121950		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ECD20, ERDL	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121960		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570"
EFDE43-8/15	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121980		6158121450 Balancer D fixation 15D: 50062	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
MC35-20, MC38-10 EME35-20J, EME38-10J	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121970		6158121450 Balancer D fixation 15D: 50062	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
SH 200/280	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158121990		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
EAD20, EAB® 15/26 ERAL 2-30/40, SDP 209/300 SH 150/280	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122000		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ECA 15/20/30 ERAL 1.5-15/25/35	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122010		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ERSA 12	TT25 1160/300 : 6158120820 TT25 1600/600 : 6158122610	6158122020		6158121450 Balancer D fixation 10D: 50052	Gravity center adjustment: 6158121490 Rigid fixation : 6158121570
ERDL 1.5/2, ECD 30	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125750		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
EAB(C) 26/32/45, EAD 20/32	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128880		6158121450 Balancer D fixation 22D: 50072 15D: 50062	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
ECA 20/30/40/60	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128930		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
SH 420/500	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630"	6158129030 + 6158128940		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
EFDE(S) 43-30/45 EME 51-70, MC 51-10/20	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125420		6158125220 Balancer DF fixation 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
EID 25/32/44	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125740 + 6158129010		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
ERDL 1.5-30 ERDL 2-40/50	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158125740 + 6158129020		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
ERAL 2-60/80	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128890		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128890		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
SH 700	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128900		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128900		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
EAB(C,A) 50 EAD 50	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128910		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128910		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
EAB(C) 60	TT50 1700/600 : 6158122620 TT50 2100/900 : 6158122630	6158129030 + 6158128920		6158121450 Balancer D fixation 22D: 50072	Gravity center adjustment: 6158125320 Rigid fixation : 6158125350
	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128920		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100 22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
ERAL 4-90/110/120	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128960		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100 22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
SH 850	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128970		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100 22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
ECA 70/90/115/125/150	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128980		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100 22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
ECA 70/90/115	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128980		6158121450 Balancer D fixation 6158125220 Balancer DF fixation for TT100 2100 22D: 50072 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
ECA 125/150	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128980		6158125220 Balancer DF fixation 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
EAD 70/80/105	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158129040 + 6158128950		6158125220 Balancer DF fixation 14DF: 6158050140 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350"
EID 65/75	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158125770 + 6158129000		6158125220 Balancer DF fixation 14DF: 6158050140 for TT100 1700 / 17DF: 6158050150 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350
EFDE(S) 51-70	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158125760		6158125220 Balancer DF fixation 17DF: 6158050150 for TT100 1700 / 21DF: 6158050160 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350"
EFDE 43-30/45 , MC 51-10/20 EME 51-10J/20J, EME 60-10	TT100 1700/600 : 6158122640 TT100 2100/900 : 6158122650	6158125760		6158125220 Balancer DF fixation 14DF: 6158050140 for TT100 1700/ 17DF: 6158050150 for TT100 2100	Gravity center adjustment: 6158125390 Rigid fixation : 6158125350

Balancing arms D57, D58, D59

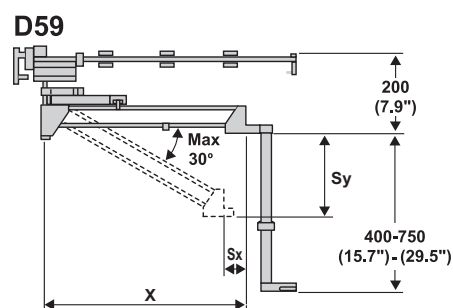
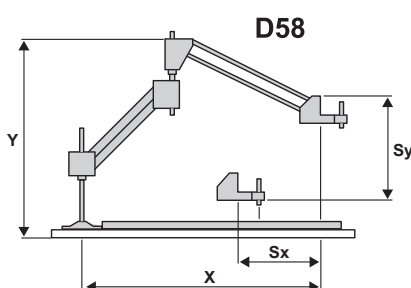
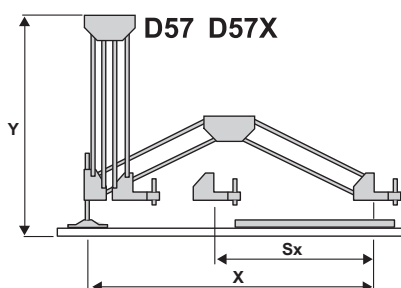
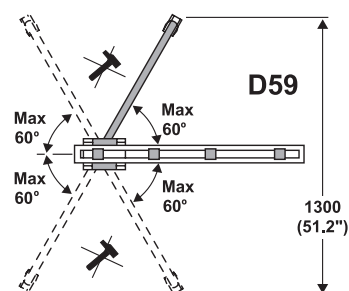


D57/D57X/D58 How To Order

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

D59 How To Order

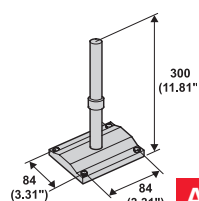
1. Basic Stand
2. Tool Holder
3. Rail (supplied per meter, e.g. for 3m order (3) of PN. 409213)
4. Rail End Stops (2 required per complete rail)
5. Optional Accessories



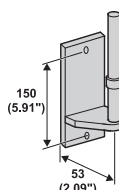
D57 / 58 / 59 BALANCING ARMS

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

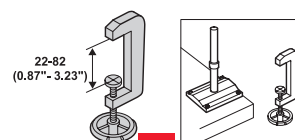
Tool clamps



A



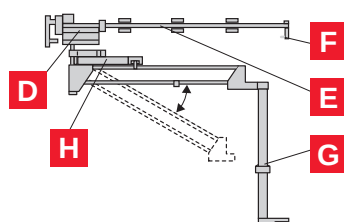
B



C

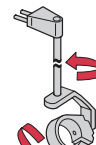
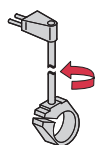
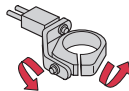
ACCESSORIES

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



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)	409273 Ø46mm (1.8) (OUTSIDE) Ø30mm (1.18) (INSIDE) 409023 Ø56mm (2.2) (OUTSIDE) Ø40mm (1.57) (INSIDE)



Pneumatic Screwdrivers



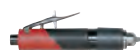
SB / SBP	✓		409083	409113	409173	
SC2 / SCP / SCPT	✓		409083	409113	409173	
SD / SDP	✓		409093	409123	409183	Ring adaptor PN 409273 for SD
SH70 / SH150	✓		409093	409123	409183	

Electric Screwdrivers



SLBN	✓		409093	409123	409183	Ring adaptor PN 409273
SLC (nose mount)	✓		409083	409113	409173	
SLC (top mount)		✓	409093	409123	409183	
ECS	✓		409083	409113	409173	
ECD5	✓		409083	409113	409173	
ERD5	✓		409083	409113	409173	

Drills

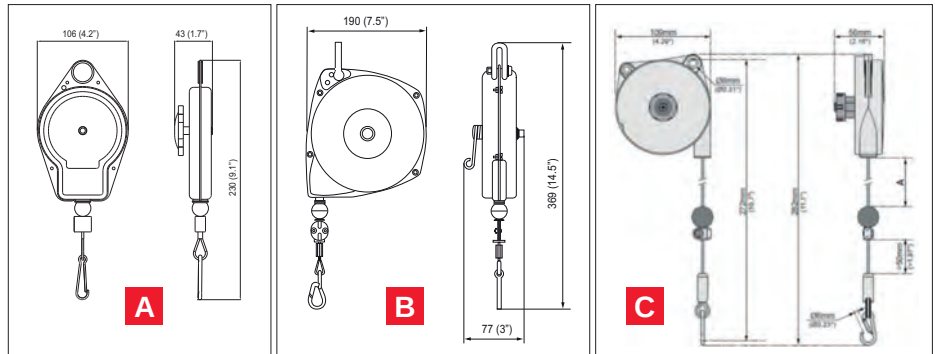


DR 300	✓		409083	409113	409173	
DR 350				409113	409173	
DR 750				409123	409183	Ring adaptor PN 409273

Balancers D & HU Series



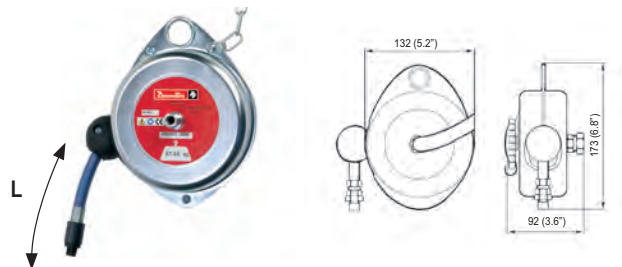
- Steel housing
- Nylon (pic A) Steel (pic B,C) cable
- Additional support chain included
- 10S / 15S / 22S with drum lock feature: operates only on spring failure



BALANCERS - 1DU - 22S

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY					
			kg	lb	kg	lb	m	ft	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
C	2DSB	615 812 791 0	0.4	0.88	1	2.2	1.6	63	0.57	1.25
	2DSBX	615 812 794 0	0.4	0.88	1	2.2	3	118.11	0.57	1.25
	4DSB	615 812 792 0	1	2.2	2	4.4	1.6	63	0.6	1.32

* Balancers with drum lock features



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

HOSE BALANCERS - 1HU - 4HU

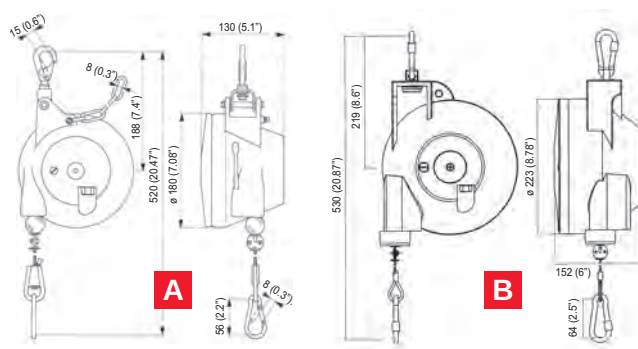
MODEL	PART NUMBER	LOAD RANGE				HOSE TRAVEL		HOSE ID		WEIGHT	
		MIN. CAPACITY		MAX. CAPACITY							
		kg	lb	kg	lb	m	ft	mm	in.	kg	lb
1HU	52552	0	0	0.5	1.1	1.5	4.9	6.5	1/4	1.2	2.6
3HU	50552	0.5	1.1	1.4	3.1	1.0	3.3	6.5	1/4	1.2	2.6
4HU	50562	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3
4HU-X*	205 148 128 4	0.7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

Balancers - ZG, 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



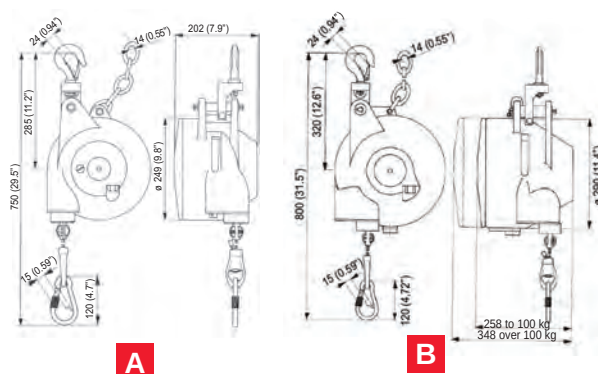
BALANCERS - 5DF - 55 DF

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb				
A	12ZG	6 158 130 77 0	0.4	0.88	1.2	2.65	1.6	5.25	1.3	2.87
	26ZG	6 158 130 78 0	1.2	2.65	2.6	5.73	1.6	5.25	1.4	3.09
	38ZG	6 158 130 79 0	2.6	5.73	3.8	8.38	1.6	5.25	1.5	3.31
	52ZG	6 158 130 80 0	3.8	8.38	5.2	11.46	1.6	5.25	1.5	3.31
	65ZG	6 158 130 81 0	5.2	11.46	6.5	14.33	1.6	5.25	1.5	3.31
	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
B	21DF	615 805 016 0	16.0	35.3	21.0	46.3	2.0	6.6	3.8	8.4
	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



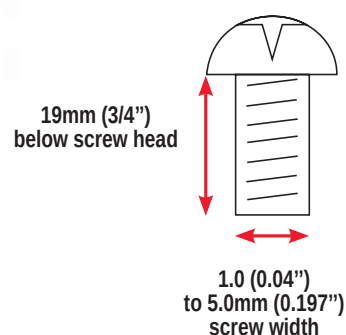
BALANCERS - 20DFL - 200DFL

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	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

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.	

Automatic Screw Dispenser - ASD

615 810 472 0	UK	M1.0 to M5.0	Up to 19	Up to 3/4"	included	126	5	147	5.8	182	7.2	AC 100 ~ 240V
615 810 473 0	EUR	M1.0 to M5.0	(under head)	(under head)								
615 810 474 0	US	0.04" to 0.197"										



Drilling and Riveting - Selection Guide

TOOL TYPE	PAGE
PNEUMATIC ADVANCED DRILLING UNIT 	196-197
ELECTRIC ADVANCED DRILLING UNITS 	198-200
LIGHT AUTOMATION SOLUTIONS 	201
XPB - Multifunction platform for manual operations 	202-203
MULTI DRILLS 	205-209
DRILLS - Pneumatic manual drilling 	210-219
SPECIALITY TOOLS - Taper - Rivet Shaver & Rack - Rack Feed Drills 	220-223
RIVETING COMPRESSION TOOLS 	224-227
RIVETING HAMMERS 	228-231

Solutions for aerospace Smart Factory

Aerospace is a fantastic and extremely demanding industry, often synonymous with highly skilled personal and cutting-edge technologies. But with a production characterized by relatively small volumes, long cycle times, large components and high variability in the production processes, this industry offers specific challenges when it comes to the dissemination of smart tools and solutions.

As volumes continue to grow with people travelling more & more, all major OEMs need to increase the overall process efficiency, limit quality costs and cycle times, and exclude human factors as a source of error. With intelligent software and digital networking, assembly tools can now make a key contribution. They offer far greater flexibility and can be fully linked both to each other and to manufacturers' production and quality systems.



Intelligent assembly solutions



DESOUTTER 4.0



Product range

As market leaders for advanced drilling solutions in aerospace, our experts are working daily with the most demanding customers to reach the highest level of quality, productivity and safety necessary in the aerospace market.

The Seti-tec semi-automated tools have been drilling thousands of holes daily, in any possible configuration, facing the most challenging environments and delivering the highest level of performance.

Building on this expertise, and faithful to its philosophy of innovation, modularity, and expertise, Seti-tec has used combined the potential of electric technology and drilling expertise to develop the electric range éVo, improving even further the drilling operations.

Still driving the innovation, Seti-tec latest range of light multi-function end-effectors will accelerate the transformation of robotic solutions in the aerospace assembly processes.

Advanced Pneumatic Drilling

Software

Advanced drilling strategies
Data driven services



Advanced Electric Drilling

Light end effector solutions

Full Range Dedicated to Aerospace Applications



		éVo RANGE			
	PNEUMATIC RANGE	SEMI-AUTOMATED ELECTRIC RANGE		ROBOTIC RANGE	
		Light éVo	Modular éVo	Drilling	Other applications (tightening...)
	Drilling strategies	Pneumatic strategies	Electric Advanced strategies		
	Software		Software plateform		
	Control box		Control box / additional robotic box		
	Cable		Multi-energy cable for éVo range		
	Heads	Shared components between all ranges			
	Support & Service	Seti-tec & Desoutter service & project team			

Automatic Drilling Unit

1 Step operation - Drilling - Reaming - Countersinking



Part of Desoutter product portfolio, **Seti-Tec line** offers best-in class performance, quality and reliability for the most demanding drilling applications worldwide.

Seti-Tec solutions have already been adopted by all major Aircraft manufacturers worldwide

This concept is dedicated to highly demanding drilling, reaming, countersinking applications, where quality, precision and repeatability are critical.

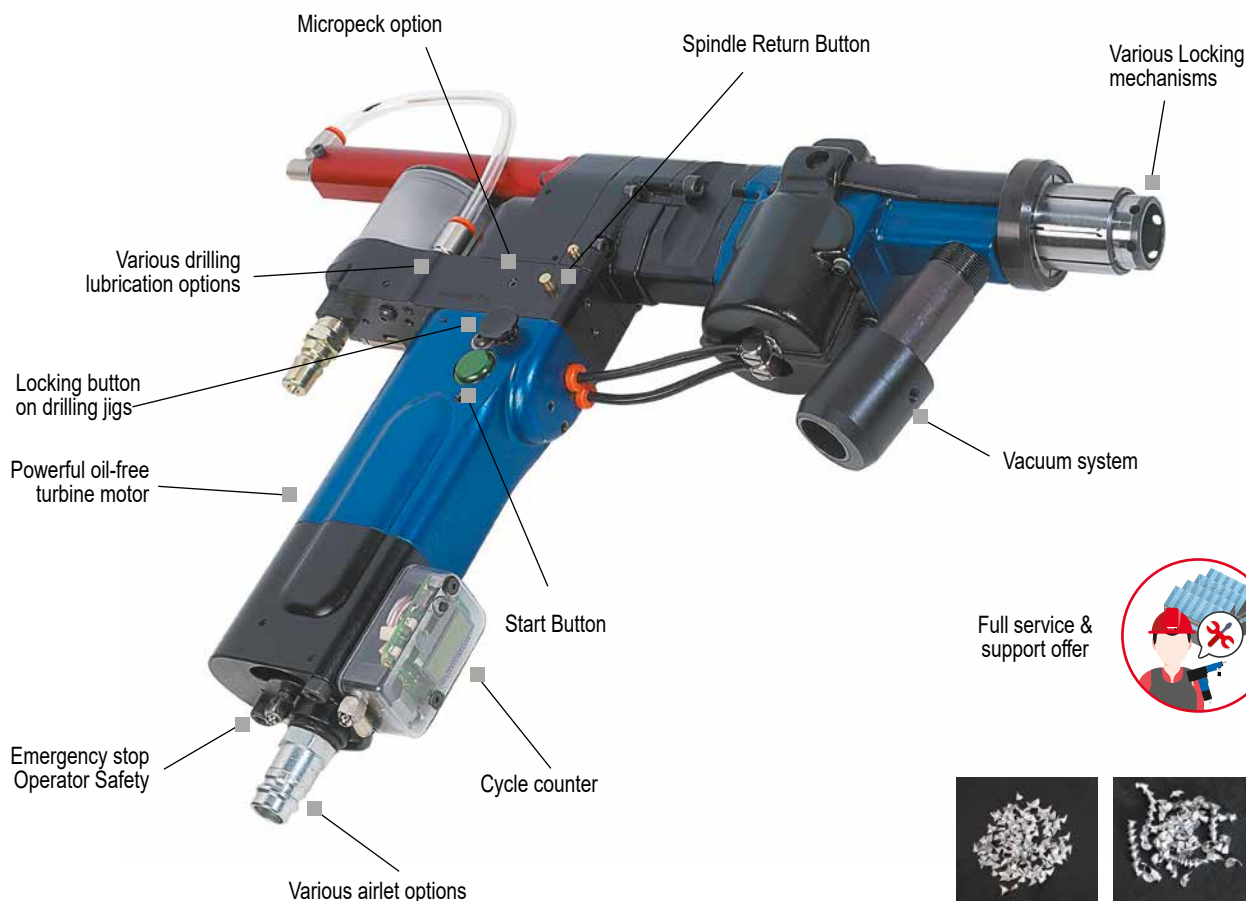
Its innovative design make one step drilling, reaming, countersinking possible, and will help driving down your cycle time.

Its design based on modularity concept and the wide variety of clamping options will answer most of your applications.

In addition to the current ST1200 and ST220 pneumatic range, the Electric Drilling Unit range éVo is raising the drilling performance to a new standard.

1 STEP OPERATION	PRODUCTIVITY
DRILLING REAMING	QUALITY
COUNTERSINKING	SAFETY

II

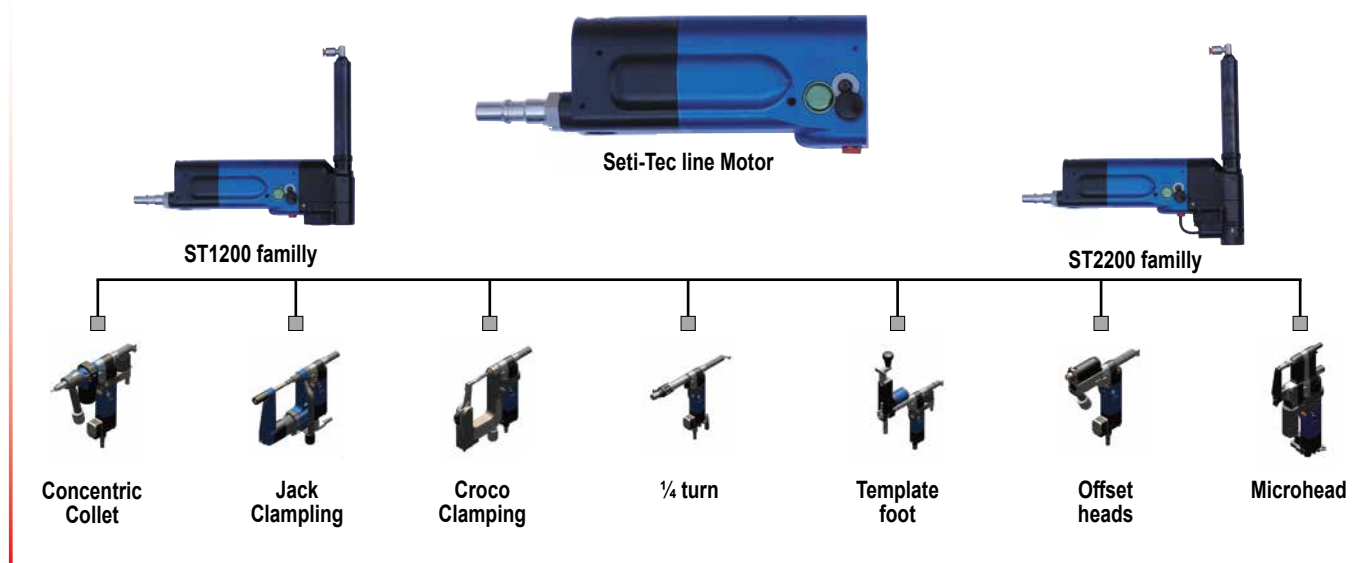


Full service & support offer



Chips with micropeck

Chips without micropeck



Technical information



	ST1200		ST2200	
Power	2.8 HP, with torque limiter at lower speed		4.2 HP, with torque limiter at lower speed	
Weight	1.5 kg (3.3lb)		4.2 kg (9.2lb)	
Stroke	Unlimited		Unlimited	
Feed rate	0,010	mm/rev	0,032	mm/rev
	0,021	mm/rev	0,047	mm/rev
	0,038	mm/rev	0,059	mm/rev
	0,058	mm/rev	0,095	mm/rev
	0,077	mm/rev	0,120	mm/rev
	0,095	mm/rev	0,146	mm/rev
	0,115	mm/rev	0,182	mm/rev
	0,154	mm/rev	0,200	mm/rev
	0,35	mm/rev	0,315	mm/rev

Any specific requirement can be handled by Seti-Tec Line design team.
Contact your Desoutter representative for assistance.

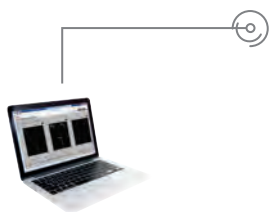
	ST1200		ST2200	
	In Line	Right Angle	In Line	Right Angle
	/	11835	2919	2195
	/	8179	2560	1925
	/	6543	1717	1291
	/	6543	1216	915
	/	6000	2017	1517
	5550	4674	1770	1331
	3514	2959	1187	892
	2811	2367	841	632
	2428	2045	1614	1214
	2008	1691	1416	1065
	1943	1636	949	714
	1554	1309	672	506
	1388	1168	730	549
	1110	935	640	481
	878	740	429	323
	793	668	304	229
	703	592	584	439
	562	473	512	385
	502	423	343	258
	402	338	243	183
	287	242	174	131

HOLE DIAMETER	ALUMINIUM COMPOSITE	TITANIUM HARD METAL	ALUMINIUM COMPOSITE	TITANIUM
	Straight hole		Countersink hole	
<4,8mm - 3/16"	ST 1200	ST 1200	ST 1200	ST 1200
<6,35mm - 1/4"				
<7,9mm - 5/16"				
<9,5mm - 3/8"				
<11,1mm - 7/16"				
<12,7mm - 1/2"				
<14,3mm - 9/16"				
<15,9mm - 5/8"				
<19,5mm - 3/4"	ST 2200	ST 2200	ST 2200	ST 2200
<22,2mm - 7/8"				
<25,4mm - 1"				
Over 25,4mm - 1"				

	CONCENTRIC COLLET	BAYONET 1/4 TURN	CROCO CLAMP	JACK CLAMP	TEMPLATE FOOT	CROWFOOT
Thick jig	ST1200 ST2200					
Thick jig with rail or screws		ST1200 ST2200				ST1200 ST2200
Thin jig			ST1200	ST1200	ST1200	
No jig (pre-hole)			ST1200	ST1200	ST1200	

Seti-Tec éVo range

SOFTWARE SUITE



Create and optimize your drilling cycle
Setup your tool
Setup your maintenance strategy
Live visualization of drilling operation

UNIQUE RANGE OF TOOLS

Modular éVo
Light éVo
Robotics



CONTROL BOX

Open architecture
Drilling cycle storage
Drilling curves storage
Ready for network integration
Drilling management of robotics applications



HEADS & EQUIPMENTS

Wide range of heads & equipments covering all drilling applications
Full modularity between pneumatic & electric range

MULTI ENERGY CABLE

Robust and flexible cable for:
Lubrication
Power
Air
Data

BOOST YOUR FLEXIBILITY

Full Modularity

- One tool to cover various applications
- Wide range of heads managed with Quick change RFID system
- Wide range of equipments, full commonality between pneumatic & electric range
- Easy rebalancing of drilling program between tools

Easy process qualification

- Easily test & optimize your cutting tools
- Easily create & optimize your drilling program

Ready for robotics applications

BOOST YOUR UP TIME

Optimized maintenance

- Cutting tool lifetime management
- Tool & head maintenance management
- Full compatibility between pneumatic/electric/robotic range
- Gain in Overall Equipment Effectiveness with easy reconfiguration of back up heads
- Full service offer

SMART ready

- Open architecture for integration in smart factory
- Ready for smart maintenance

BOOST YOUR PRODUCTIVITY

Cycle time reduction

- Optimized drilling parameters for each material
- Advanced drilling strategies
- Reduced cleaning time with smart lubrication management

Quality focus

- Advanced drilling strategies
- Poka Yoké system with RFID head identification
- Full traceability with drilling curve storage

Reduce Health & safe issues

- Reduce lubrication on shopfloor
- Low sound levels



Seti-Tec éVo range



Tool range

QUICK CHANGE HEAD SYSTEM WITH RFID IDENTIFICATION

Easily change your head to adapt to the application
Unlimited number of head per motor

FULL RANGE OF HEADS & EQUIPMENTS

Common with Pneumatic range of right angle and inline head sizes to cover all applications
Wide range of equipments to match your application

FULL SPEED RANGE COVERAGE

Patented winch system, to cover high speed & high torque applications

DISPLAY

Tool/head/drilling cycle information
Operator feedback

ROBUST AND POWERFUL MOTORS

2 independent motors for speed & feed

Modular éVo

Light éVo

MONOBLOC VERSION, equipment dedicated to the tool

Tool Range

The choice between Modular & Light éVo needs to be assessed for each application:

■ Modular éVo

This tool can handle a wide range of drilling applications thanks to its modular design.

Depending on the head chosen (S/L/L/XL) the M-éVo can cover all your drilling applications, from small to large holes & from CFRP to Titanium

■ Light éVo

This tool is more suitable for repetitive drilling operations, with smaller holes and less demanding applications

		HOLE DIAMETER			
		mm	Ø 4.0 TO 6.4	Ø 6.4 TO 12.7	Ø 12.7 TO 25.4
		in.	Ø 4/32 " TO 1/4"	Ø 5/16" TO 1/2"	Ø 1/2 " TO 1"
Material drilled	Alu / Alu				
	CFRP / CFRP				
	CFRP/ Al				
	Stack Titanium & hard metal				

L-EDU capability

M-EDU capability

Seti-Tec éVo range

Heads* & equipments selection

HEAD RECOMMENDATIONS

		STRAIGHT HOLE		COUNTERSINK HOLE	
Hole diameter mm	in.	Alu/CFRP	Titanium/ Hard metal	Alu/CFRP	Titanium/ Hard metal
<4,8	<3/16"	Small	Small	Small	Small
<6,35	<1/4"				Small + GEAR
<7,9	<5/16"				
<9,5	<3/8"				
<11,1	<7/16"				
<12,7	<1/2"				
<14,3	<9/16"				
<15,9	<5/8"	Small + GEAR	Small + GEAR	Large	Large/GEAR
<19,05	<3/4"		Large/GEAR	Large/GEAR	
<22,2	<7/8"	Large/GEAR	X Large	X Large	X Large
<25,4	<1"				
>25,4	>1"				

*Heads available in Right angle & inline versions.

HEAD	RIGHT ANGLE	IN-LINE
S		
L		
XL		

EQUIPMENTS



Smart interface



- Setup your tool and heads with dedicated software
- Drilling cycle creation & optimization
Full control over all drilling parameters to optimize cycle time & quality
- Control your cutting tool lifetime and maintenance strategies with dedicated counters
- Life drilling curves visualization
- Advanced drilling strategies

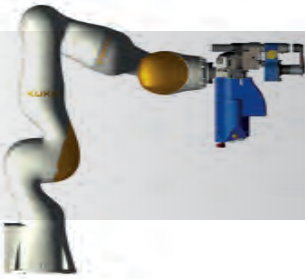


Integration in Smart factory

- Open architecture for integration in SMART Factory
- All drilling curves stored in control box
- Smart curves analysis software package

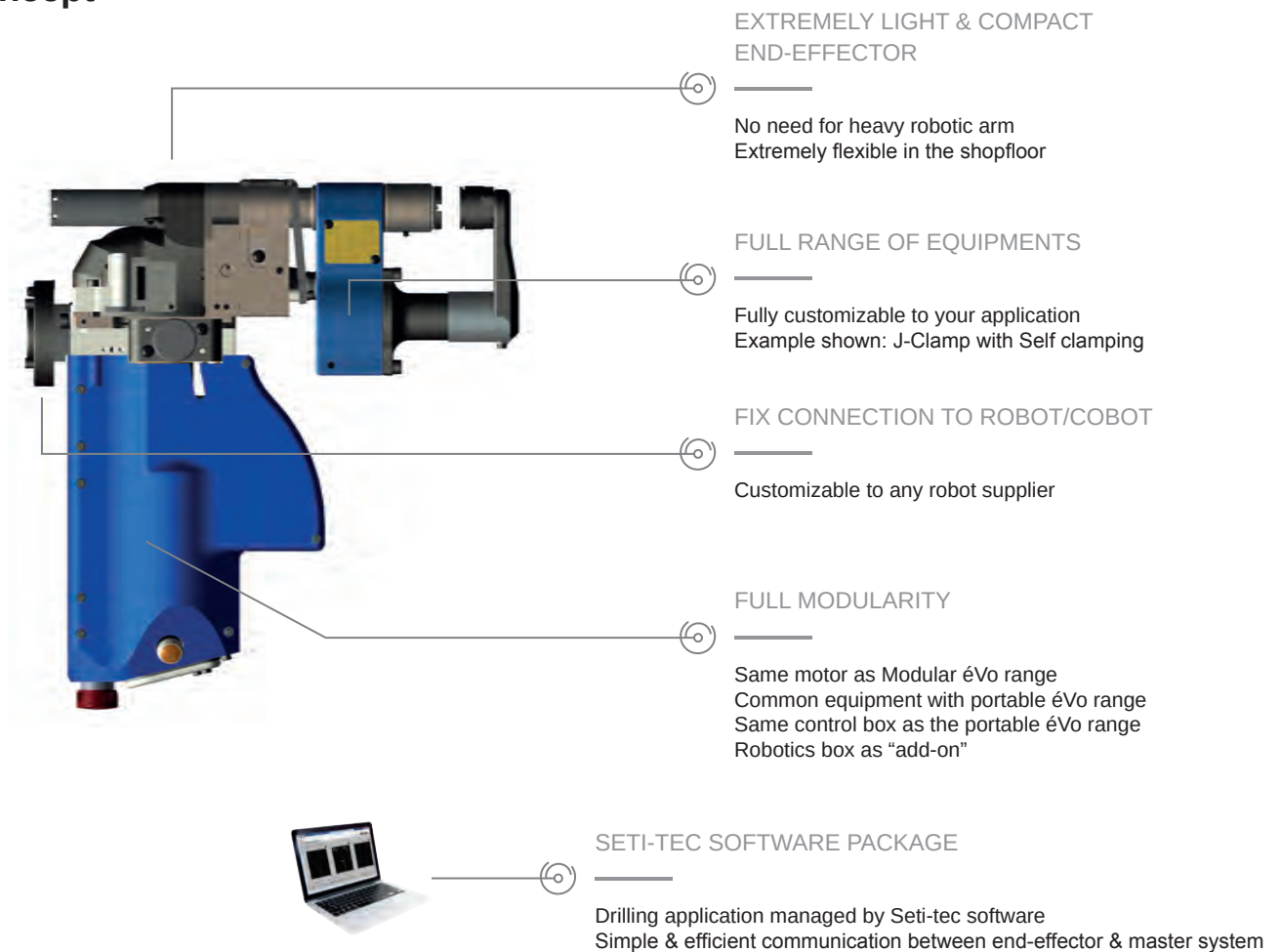


Light automation solutions



Building on its expertise on semi-automated drilling applications with electric éVo and driven by innovation, Seti-tec is now developing a full range of innovative end-effectors for aerospace applications. Light, flexible, modular, this range will change the way you are integrating robotics in your factory.

Concept



Full Modularity with wide range of heads

All current Seti-tec range of heads & equipments can be adapted to the robotic end-effector.

In addition to drilling, other applications are available:
Temporary fastener installation, riveting...

All solutions can be customized on the application.
Please contact your Desoutter & Seti-Tec representative for more information.





XPB - The future of aerospace manual operations

The aerospace world is transforming from the design phase to the production shopfloor. Robotic solutions, digitalized instructions, augmented reality are now used on a daily in all the aerospace plants worldwide.

Aerospace players deserve the most advanced technologies, and are looking at solutions to increase their flexibility, up-time & productivity.

As aerospace experts, Desoutter & Seti-tec have designed a platform taking manual operation to an advanced level while satisfying today's and tomorrow's most demanding challenges.

Discover how to accelerate your transformation.



* Depending on model



XPB - Multi-function battery tool

Tool Range



XPB

- Drilling applications only
- Speeds adjustable via software



+ Options

XPB Advanced

- Drilling applications only
- Display screen
- Up to 6 drilling cycles



+ Options

XPB Modular

- Multi applications
- Automatic cycle selection via RFID technology

Modularity



Drilling



Straight head



All drilling heads
(page 207)



All Offset heads
(page 208)



HCU heads

Temporary fasteners installation*



Heads for Lisi



Heads for
Monogram

Frangible collars



* Other heads available,
please contact your Desoutter representative

Software



Easy connectivity and user-friendly interface

Made for a fast tool setup creation and access to data

BOOST YOUR FLEXIBILITY

GO electric

- No need for heavy air network installation
- No more air hose - Full freedom of movement for the operator

Modular system

- One tool to cover various applications
- Wide range of heads managed with Quick change RFID system

BOOST YOUR UP TIME

Optimized maintenance

- Cutting tool lifetime management
- Tool & head maintenance management

SMART ready

- Optional Wifi module for integration in smart factory
- Open architecture

BOOST YOUR PRODUCTIVITY

Secure quality of your operation & error-proof your process

- Constant drilling speed
- Operator feedback
- Various smart drilling options

Reduce Health & safe issues

- No more tripping on air hose
- Low sound levels

Drill Selection Guide

How to select your tool:

1 Select material 2 Select hole size 3 Define speed

TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL 1	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	rpm		9-15m/min	10-20m/min	20-35m/min	30-40m/min	50-80m/min	50-100m/min	80-120m/min
Drill ø mm									
STRAIGHT CASE									
DR300-T	20000							4.0 (5/32")	2.0 (5/64")
ø8-10 mm (5/16" - 3/8") cap.	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4500					3.0 (1/8")	6.0 (1/4")		8.0 (5/16")
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")			
	1000	3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						
30°, 45°, 90°, 360° COMPACT HEAD									
DR300-QR/-T5-S5	5500	-	-	-	-	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	4500	-	-	-	-	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	3000 3	-	-	-	3.0 (1/8") 2	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")	-
	2000	-	3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	-	-	-	-
	1000	-	4.0 (5/32")	5.0 (3/16")	-	-	-	-	-
45°, 90°, 360° STANDARD HEAD									
DR300-QR/-T6-S6	5500	-	-	-	-	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	4500	-	-	-	-	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	3000	-	-	-	3.0 (1/8")	5.0 (3/16")	6.5 (1/4")	6.5 (1/4")	-
	2000	-	3.0 (1/8")	4.0 (5/32")	6.5 (1/4")	6.5 (1/4")	-	6.5 (1/4")	-
	1000	-	4.0 (5/32")	6.0 (1/4")	6.5 (1/4")	-	-	-	-
	550	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	-	-	-	-	-
DR450-T6/S6	18500	-	-	-	-	-	-	4.0 (5/32")	2.0 (5/64")
ø8-13 mm (5/16" - 1/2") cap.	5800	-	-	-	-	-	4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4300	-	-	-	-	3.0 (1/8")	6.0 (1/4")	10.0 (13/32")	12.0 (1/2")
	2700	-	-	3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	8.0 (5/16")	12.0 (1/2")	-
	1800	-	3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")	-	-
	1400	-	4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0 (7/16")	-	-	-
90° HEAVY DUTY									
DR300-THD/SHD	2000	-	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")
	900	-	7.0 (9/32")	8.0 (5/16")	8.0 (5/16")	-	-	-	-
DR450-THD/SHD	2000	-	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")
	900	-	7.0 (9/32")	8.0 (5/16")	8.0 (5/16")	-	-	-	-
	600	-	8.0 (5/16")	10.0 (13/32")	10.0 (13/32")	8.0 (5/16")	-	-	-
PISTOL GRIP									
DR350	20000							4.0 (5/32")	2.0 (5/64")
ø8-10 mm (5/16" - 3/8") cap.	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4500					3.0 (1/8")	6.0 (1/4")		8.0 (5/16")
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1000		4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						
DR500	18500							4.0 (5/32")	2.0 (5/64")
ø8-13 mm (5/16" - 1/2") cap.	5800						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4300					3.0 (1/8")	6.0 (1/4")	10.0 (13/32")	12.0 (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	8.0 (5/16")	12.0 (1/2")	
	1800		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1400		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0 (7/16")			
	1000		5.0 (3/16")	6.0 (1/4")	10.0 (13/32")				
	600	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	12.0 (1/3")				
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					
DR750	20000						2.0 (5/64")	2.0 (5/64")	
ø8-13 mm (5/16" - 1/2") cap.	6000						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4100					3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")
	3300				3.0 (1/8")	4.0 (5/32")	8.0 (5/16")	10.0 (13/32")	12.0* (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	10.0 (13/32")	13.0* (1/2")	15.0* (19/32")
	1300		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0* (7/16")	19.0* (3/4")		30.0* (13/16")
	750	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	15.0* (19/32")	19.0* (3/4")	30.0* (13/16")		
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					

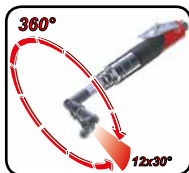
* above standard chuck capacity



Multi Drills



- Modular product range to boost you productivity
- Full flexibility for difficult access applications
- Lightweight and excellent ergonomics
- Robust built, reliable design and excellent run-out
- New 500W tools available in multi-drill version:
 - Pistol version with DR500-QR
 - Straight version with DR450-QR



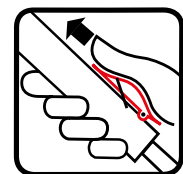
12 positions, 360° orientation

Flexibility
Excellent accessibility



Quick-Release head

Productivity
1 tool for all applications



Safety
Ergonomics
Low weight
Low sound levels
Vacuum kits options



* Possibility to use ER collets with straight Quick Release attachment See p.209 for all details

Multi-Drills



A

DR350 Series
350 W (0.5hp) / 1000 to 5500 rpm



B

DR500 Series
500 W (0.68hp) / 1000 to 5800 rpm



C

DR300 Series
300 W (0.4hp) / 550 to 5500 rpm



D

DR450 Series
450 W (0.6hp) / 1000 to 5800 rpm



***BRB**
Button + Rear Bumper
available as well as accessory



ACCESSORIES
see page 209

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET
				rpm	W	hp	kg	lb	mm	in.	l/s	cfm
MULTI-DRILLS - PISTOL												
A	DR350-P5500-QR	205 147 984 4	5500	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P4500-QR	205 147 983 4	4500	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P3000-QR	205 147 528 4	3000	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P1000-QR	205 147 981 4	1000	350	0.5	0.58	1.27	187	7.36	9.5	20	1/4
B	DR500-P5800-QR	615 176 190 0	5800	500	0.68	0.58	1.25	174	6.85	14	30	1/4
B	DR500-P4300-QR	615 176 189 0	4300	500	0.68	0.58	1.25	174	6.85	14	30	1/4
B	DR500-P2700-QR	615 176 188 0	2700	500	0.68	0.58	1.25	174	6.85	14	30	1/4
B	DR500-P1800-QR	615 176 187 0	1800	500	0.68	0.66	1.45	188	7.40	14	30	1/4
B	DR500-P1400-QR	615 176 186 0	1400	500	0.68	0.66	1.45	188	7.40	14	30	1/4
B	DR500-P1000-QR	615 176 185 0	1000	500	0.68	0.66	1.45	188	7.40	14	30	1/4

MULTI-DRILLS - STRAIGHT

C	DR300-T5500-QR	615 176 071 0	5500	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
C	DR300-T4500-QR	615 176 070 0	4500	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
C	DR300-T3000-QR	615 176 069 0	3000	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
C	DR300-T2000-QR	615 176 068 0	2000	300	0.4	0.52	1.14	179	7.05	9.5	20	1/4
C	DR300-T1000-QR	615 176 067 0	1000	300	0.4	0.61	1.34	195.5	7.7	9.5	20	1/4
C	DR300-T1000-QR - BRB*	615 176 118 0	1000	300	0.4	0.64	1.41	217.8	8.57	9.5	20	1/4
C	DR300-T550-QR	615 176 066 0	550	300	0.4	0.61	1.34	195.5	7.7	9.5	20	1/4
D	DR450-T5800-QR	615 176 162 0	5800	450	0.6	0.64	1.41	193	7.60	14	30	1/4
D	DR450-T4300-QR	615 176 161 0	4300	450	0.6	0.64	1.41	193	7.60	14	30	1/4
D	DR450-T2700-QR	615 176 160 0	2700	450	0.6	0.64	1.41	193	7.60	14	30	1/4
D	DR450-T1800-QR	615 176 159 0	1800	450	0.6	0.72	1.58	207	8.15	14	30	1/4
D	DR450-T1400-QR	615 176 158 0	1400	450	0.6	0.72	1.58	207	8.15	14	30	1/4
D	DR450-T1000-QR	615 176 157 0	1000	450	0.6	0.72	1.58	207	8.15	14	30	1/4

All models: Hose int. 6 mm (1/4")



Quick release heads

PIC REF	DESIGNATION	PART NUMBER	LENGTH L		COLLET MAX. CAPACITY		WEIGHT	
			mm	in.	mm	in.	kg	lb

COMPACT ANGLE HEADS

A	Short Compact 90° angle head Collet spindle	205 053 981 3	54.0	2.13	5.0	3/16	0.15	0.33
A	Compact 90° angle head Collet spindle	205 050 331 3	72.0	2.83	5.0	3/16	0.17	0.37
A	Compact 90° angle head 1/4" x 28 spindle	205 050 332 3	72.0	2.83	-	-	0.17	0.37
B	Compact 30° angle head Collet spindle	205 050 329 3	82.9	3.26	5.0	3/16	0.17	0.37
B	Compact 30° angle head 1/4" x 28 spindle	205 050 330 3	82.9	3.26	-	-	0.17	0.37
C	Compact 45° angle head Collet spindle	205 050 335 3	81.0	3.19	5.0	3/16	0.17	0.37
C	Compact 45° angle head 1/4" x 28 spindle	205 050 336 3	79.0	3.11	-	-	0.17	0.37
D	Compact 360° angle head Collet spindle	205 050 333 3	81.5	3.21	5.0	3/16	0.25	0.55
D	Compact 360° angle head 1/4" x 28 spindle	205 050 334 3	85.2	3.35	-	-	0.25	0.55
E	Short compact straight head Collet spindle	615 399 569 5	53.7	2.11	5.0	3/16	0.14	0.31
E	Short compact straight head 1/4"x28 Spindle	615 399 570 5	53.7	2.11	-	-	0.14	0.31
E	Compact straight head Collet spindle	615 399 571 5	71.7	2.82	5.0	3/16	0.16	0.35
E	Compact straight head 1/4"x28 Spindle	615 399 572 5	71.7	2.82	-	-	0.16	0.35

STANDARD ANGLE HEADS

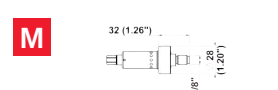
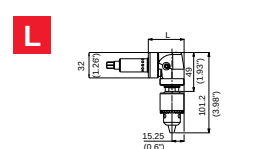
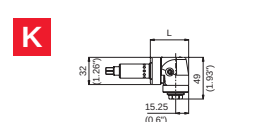
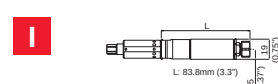
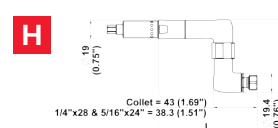
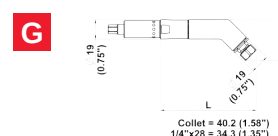
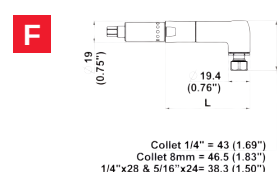
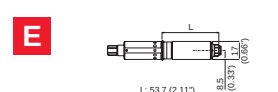
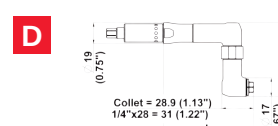
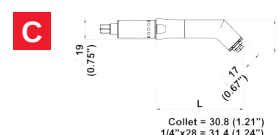
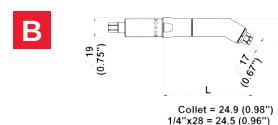
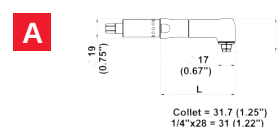
F	Standard 90° angle head Collet spindle	205 050 338 3	75.7	2.98	6.4	1/4	0.23	0.51
F	Standard 90° angle head Collet spindle	205 050 353 3	75.7	2.98	8.0	5/16	0.23	0.51
F	Standard 90° angle head 1/4" x 28 spindle	205 050 339 3	75.7	2.98	-	-	0.24	0.53
F	Standard 90° angle head 5/16" x 24 spindle	205 050 340 3	75.7	2.98	-	-	0.23	0.51
G	Standard 45° angle head Collet spindle	615 398 702 5	90.7	3.57	6.4	1/4	0.23	0.51
G	Standard 45° angle head 1/4" x 28 spindle	615 398 704 5	87.9	3.46	-	-	0.23	0.51
H	Standard 360° angle head Collet spindle	205 050 341 3	96.8	3.81	6.4	1/4	0.32	0.70
H	Standard 360° angle head 1/4" x 28 spindle	205 050 342 3	94.5	3.72	-	-	0.32	0.70
H	Standard 360° angle head 5/16" x 24 spindle	205 050 343 3	94.5	3.72	-	-	0.32	0.70
I	Standard straight head Collet spindle	615 399 573 5	83.8	3.3	6.4	1/4	0.2	0.44
I	Standard straight head 1/4"x28 Spindle	615 399 574 5	83.8	3.3	-	-	0.2	0.44

HEAVY DUTY HEADS

J	Heavy Duty 90° head Collet spindle	615 399 575 5	48.8	1.92	8	5/16	0.31	0.68
K	Heavy Duty 90° head 1/4"x28 Spindle	615 399 576 5	48.8	1.92	-	-	0.3	0.66
L	Heavy Duty 90° head Chuck output	615 399 577 5	48.8	1.92	-	-	0.43	0.95

STRAIGHT HEADS

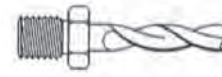
M	Chuck mounting 3/8" x 24	205 050 543 3	32.0	1.26	-	-	0.25	0.55
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Multi Drills

Drilling Offset Heads

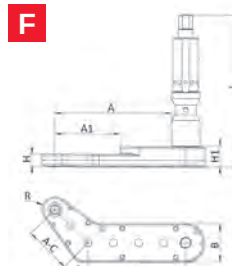
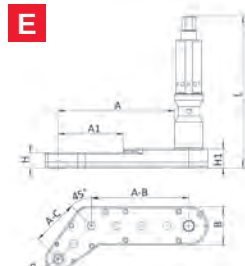
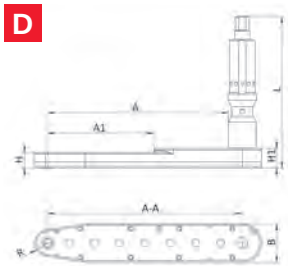
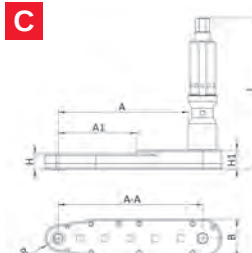
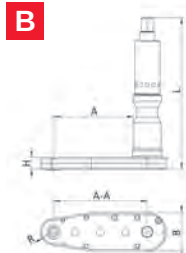
Output



Threaded



Collet



PIC REF	MODEL		DRILLING DIRECTION	MAX DRILLING CAPACITY		H		H1		A		A1		A-A		A-B		A-C		B		R		L		ANGLE
	Thread 1/4"x28"	Thread 9/32"-40		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
A	DB13S2-CP2	DB13S3-CP2	Backward	5.0	3/16"	7.5	0.29	-	-	37.6	1.48	-	-	46.8	1.84	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
A	DB13S2-CP6	DB13S3-CP6	Backward	5.0	3/16"	7.5	0.29	-	-	37.6	1.48	-	-	46.8	1.84	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
A	DB23S2-CP2	DB23S3-CP2	Backward	6.35	1/4"	10.0	0.39	-	-	37.6	1.48	-	-	46.8	1.84	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
A	DB23S2-CP6	DB23S3-CP6	Backward	6.35	1/4"	10.0	0.39	-	-	37.6	1.48	-	-	46.8	1.84	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
A	DB33S2-CP2	DB33S3-CP2	Backward	8.0	5/16"	12.6	0.49	-	-	37.6	1.48	-	-	46.8	1.84	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
A	DB33S2-CP6	DB33S3-CP6	Backward	8.0	5/16"	12.6	0.49	-	-	37.6	1.48	-	-	46.8	1.84	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
B	DB04S2-CP	DB04S3-CP	Forward	5.0	3/16"	7.5	0.29	-	-	32.2	1.26	-	-	42.7	1.68	-	-	-	-	16.0	0.62	7.5	0.29	95.4	3.75	-
B	DB14S2-CP2	DB14S3-CP2	Forward	5.0	3/16"	7.5	0.29	-	-	52.7	2.07	-	-	61.9	2.43	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
B	DB14S2-CP6	DB14S3-CP6	Forward	5.0	3/16"	7.5	0.29	-	-	52.7	2.07	-	-	61.9	2.43	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
B	DB24S2-CP2	DB24S3-CP2	Forward	6.35	1/4"	10.0	0.39	-	-	52.7	2.07	-	-	61.9	2.43	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
B	DB24S2-CP6	DB24S3-CP6	Forward	6.35	1/4"	10.0	0.39	-	-	52.7	2.07	-	-	61.9	2.43	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
B	DB34S2-CP2	DB34S3-CP2	Forward	8.0	5/16"	12.6	0.49	-	-	52.7	2.07	-	-	61.9	2.43	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
B	DB34S2-CP6	DB34S3-CP6	Forward	8.0	5/16"	12.6	0.49	-	-	52.7	2.07	-	-	61.9	2.43	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
C	DB06S2-CP	DB06S3-CP	Forward	5.0	3/16"	7.5	0.29	7.5	0.29	54.1	2.13	-	-	64.7	2.54	-	-	-	-	16.0	0.62	7.5	0.29	95.4	3.75	-
C	DB16S2-CP2	DB16S3-CP2	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	86.0	3.38	52.1	2.05	95.3	3.75	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
C	DB16S2-CP6	DB16S3-CP6	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	86.0	3.38	52.1	2.05	95.3	3.75	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
C	DB26S2-CP2	DB26S3-CP2	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	86.0	3.38	52.1	2.05	95.3	3.75	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
C	DB26S2-CP6	DB26S3-CP6	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	86.0	3.38	52.1	2.05	95.3	3.75	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
C	DB36S2-CP2	DB36S3-CP2	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	86.0	3.38	-	-	95.3	3.75	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
C	DB36S2-CP6	DB36S3-CP6	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	86.0	3.38	-	-	95.3	3.75	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
D	DB08S2-CP	DB08S3-CP	Forward	5.0	3/16"	7.5	0.29	7.5	0.29	76.0	2.99	-	-	86.6	3.40	-	-	-	-	16.0	0.62	7.5	0.29	95.4	3.75	-
D	DB18S2-CP2	DB18S3-CP2	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	119.3	4.69	70.4	2.77	128.6	5.06	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
D	DB18S2-CP6	DB18S3-CP6	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	119.3	4.69	70.4	2.77	128.6	5.06	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
D	DB28S2-CP2	DB28S3-CP2	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	119.3	4.69	70.4	2.77	128.6	5.06	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
D	DB28S2-CP6	DB28S3-CP6	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	119.3	4.69	70.4	2.77	128.6	5.06	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
D	DB38S2-CP2	DB38S3-CP2	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	119.3	4.69	-	-	128.6	5.06	-	-	-	-	25.4	1	8.5	0.33	99.9	3.93	-
D	DB38S2-CP6	DB38S3-CP6	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	119.3	4.69	-	-	128.6	5.06	-	-	-	-	25.4	1	8.5	0.33	178.8	7.03	-
E	DB06R2-CP	DB06R3-CP	Forward	5.0	3/16"	7.5	0.29	7.5	0.29	46.5	1.83	-	-	-	-	43.3	1.70	21.4	0.84	16.0	0.62	7.5	0.29	95.4	3.75	50°
E	DB16R2-CP2	DB16R3-CP2	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	99.9	3.93	45°
E	DB16R2-CP6	DB16R3-CP6	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	178.8	7.03	45°
E	DB26R2-CP2	DB26R3-CP2	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	99.9	3.93	45°
E	DB26R2-CP6	DB26R3-CP6	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	178.8	7.03	45°
E	DB36R2-CP2	DB36R3-CP2	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	76.9	3.02	-	-	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	99.9	3.93	45°
E	DB36R2-CP6	DB36R3-CP6	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	76.9	3.02	-	-	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	178.8	7.03	45°
F	DB06L2-CP	DB06L3-CP	Forward	5.0	3/16"	7.5	0.29	7.5	0.29	47.0	1.85	-	-	-	-	43.3	1.70	21.4	0.84	16.0	0.62	7.5	0.29	95.4	3.75	50°
F	DB16L2-CP2	DB16L3-CP2	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	99.9	3.93	45°
F	DB16L2-CP6	DB16L3-CP6	Forward	5.0	3/16"	7.5	0.29	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	178.8	7.03	45°
F	DB26L2-CP2	DB26L3-CP2	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	99.9	3.93	45°
F	DB26L2-CP6	DB26L3-CP6	Forward	6.35	1/4"	10.0	0.39	12.6	0.49	76.9	3.02	43.1	1.69	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	178.8	7.03	45°
F	DB36L2-CP2	DB36L3-CP2	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	76.9	3.02	-	-	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	99.9	3.93	45°
F	DB36L2-CP6	DB36L3-CP6	Forward	8.0	5/16"	12.6	0.49	12.6	0.49	76.9	3.02	-	-	-	-	64.3	2.53	31.0	1.22	25.4	1	8.5	0.33	178.8	7.03	45°



Multi Drills - Accessories

Collet for Compact Angle Heads: C, D, E & F (30°, 45°, 90° & 360°)



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 0.8mm	2152	ø 1.8mm	2252	ø 2.8mm	2352	ø 3.8mm	2452	ø 4.8mm	2552
ø 0.9mm	2162	ø 1.9mm	2262	ø 2.9mm	2362	ø 3.9mm	2462	ø 4.9mm	2562
ø 1.0mm	2172	ø 2.0mm	2272	ø 3.0mm	2372	ø 4.0mm	2472	ø 5.0mm	2572
ø 1.1mm	2182	ø 2.1mm	2282	ø 3.1mm	2382	ø 4.1mm	2482		
ø 1.2mm	2192	ø 2.2mm	2292	ø 3.2mm	2392	ø 4.2mm	2492	ø 1/16"	91442
ø 1.3mm	2202	ø 2.3mm	2302	ø 3.3mm	2402	ø 4.3mm	2502	ø 3/32"	91452
ø 1.4mm	2212	ø 2.4mm	2312	ø 3.4mm	2412	ø 4.4mm	2512	ø 1/8"	91462
ø 1.5mm	2222	ø 2.5mm	2322	ø 3.5mm	2422	ø 4.5mm	2522	ø 5/32"	91472
ø 1.6mm	2232	ø 2.6mm	2332	ø 3.6mm	2432	ø 4.6mm	2532	ø 11/64"	108172
ø 1.7mm	2242	ø 2.7mm	2342	ø 3.7mm	2442	ø 4.7mm	2542	ø 3/16"	91482

Collet for Standard Angle Heads: G, H & J (45°, 90°, 360°)



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 1.6mm (1/16")	18922	ø 3.0mm	18992	ø 4.4mm (11/64")	19072	ø 5.8mm	19152
ø 1.8mm	18932	ø 3.2mm (1/8")	19002	ø 4.6mm	19082	ø 6.0mm (15/64")	19162
ø 2.0mm (5/64")	18942	ø 3.4mm	19022	ø 4.8mm (3/16")	19092	ø 6.2mm	19172
ø 2.2mm	18952	ø 3.6mm (9/64")	19032	ø 5.0mm	19102	ø 6.4mm (1/4")	19182
ø 2.4mm	18962	ø 3.8mm	19042	ø 5.2mm (13/64")	19122		
ø 2.6mm	18972	ø 4.0mm (5/32")	19052	ø 5.4mm	19132		
ø 2.8mm (7/64")	18982	ø 4.2mm	19062	ø 5.6mm (7/32")	19142		

Collet for Standard Angle Head: P.N. 205 050 353 3



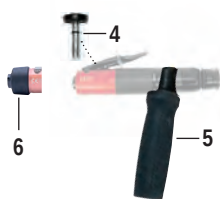
COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 2.0mm	615 526 066 0	ø 4.0mm	615 526 071 0	ø 5.9mm	615 526 078 0	ø 7.5mm	615 526 084 0
ø 2.4mm	615 526 067 0	ø 4.5mm	615 526 073 0	ø 6.0mm	615 526 079 0	ø 7.7mm	615 526 085 0
ø 2.5mm	615 526 068 0	ø 5.0mm	615 526 075 0	ø 6.3mm	615 526 080 0	ø 7.9mm	615 526 087 0
ø 3.0mm	615 526 069 0	ø 5.2mm	615 526 076 0	ø 6.5mm	615 526 081 0	ø 8.0mm	615 526 088 0
ø 3.5mm	615 526 070 0	ø 5.5mm	615 526 077 0	ø 7.0mm	615 526 083 0		

ACCESSORIES INCLUDED



ITEM	PART NO.
With DR300	
2 Safety lever	205 051 259 3
With Angle heads C, D, E & F	
3 Collet ø 4.8mm (3/16") capacity	2552
• Flat wrench	615 802 069 0
• Flat wrench	615 802 070 0
With Angle heads G & H	
4 Collet ø 6.4mm (1/4") capacity	19182
• Flat wrenches 10mm	82623
With DR300/350/450/500	
5 Set of color plastic rings	615 399 250 0

OTHER OPTIONAL ACCESSORIES



ITEM	PART NO.
1 Short lever	205 050 299 3
4 Start button	615 399 266 0
5 Side handle	615 399 265 0
• Keyed chuck C6 - 3/8"x24 (Cap. 0.5 to 6.5mm)	205 055 272 3
• Keyed chuck C8 - 3/8"x24 (Cap. 0.5 to 8mm)	205 053 013 3
• Flat wrenches 8-9.5mm for Angle heads C, D, E & F	268263
6 Kit silencer NPT	615 399 313 0
6 Kit silencer BSP	615 399 311 0
6 Kit Bumper	615 399 312 0

Angle Drills

Compact Head - Max capacity: 5mm (3/16")

Collet & 1/4" x 28 Spindle



A DR300-T...-T/S5-30 Series
300 W (0.4hp) / 1000 to 5500 rpm



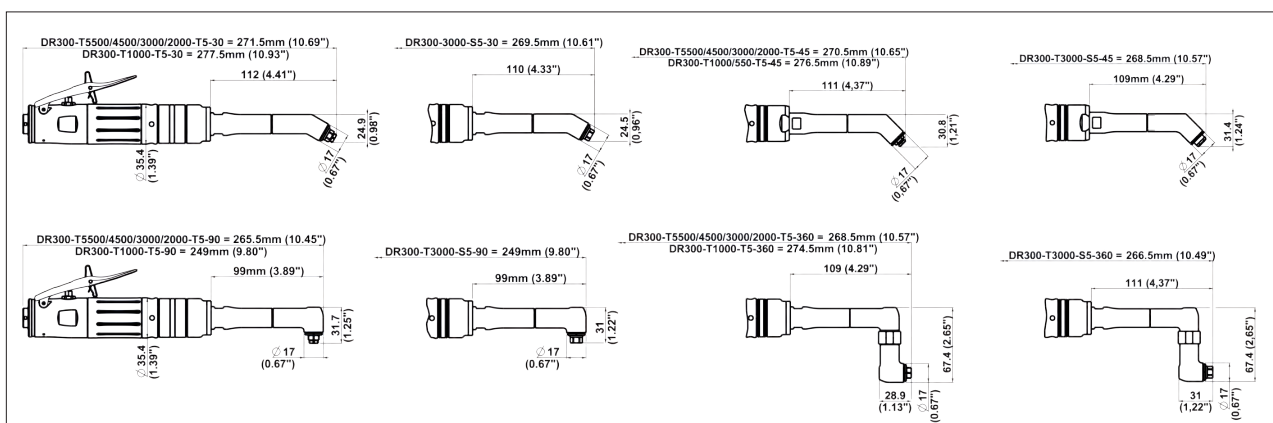
B DR300-T...-T/S5-45 Series
300 W (0.4hp) / 550 to 5500 rpm



C DR300-T...-T/S5-90 Series
300 W (0.4hp) / 1000 to 5500 rpm



D DR300-T...-T/S5-360 Series
300 W (0.4hp) / 1000 to 5500 rpm



***BRB**
Button + Rear Bumper
available as well as accessory



ACCESSORIES
see page 213

P/C REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT	
					rpm	W	hp	kg	lb
30° - COLLET SPINDLE			30° - 1/4" x 28 SPINDLE		Max. capacity: 5mm (3/16")				
A	DR300-T5500-T5-30	615 176 077 0	DR300-T5500-S5-30	615 176 133 0	5500	300	0.4	0.66	1.45
A	DR300-T4500-T5-30	615 176 076 0	DR300-T4500-S5-30	615 176 132 0	4500	300	0.4	0.66	1.45
A	DR300-T3000-T5-30	615 176 074 0	DR300-T3000-S5-30	615 176 075 0	3000	300	0.4	0.66	1.45
A	DR300-T3000-T5-30 - BRB*	615 176 119 0			3000	300	0.4	0.66	1.45
A	DR300-T2000-T5-30	615 176 073 0	DR300-T2000-S5-30	615 176 131 0	2000	300	0.4	0.66	1.45
A	DR300-T1000-T5-30	615 176 072 0	DR300-T1000-S5-30	615 176 130 0	1000	300	0.4	0.76	1.67
45° - COLLET SPINDLE			45° - 1/4" x 28 SPINDLE		Max. capacity: 5mm (3/16")				
B	DR300-T5500-T5-45	615 176 096 0	DR300-T5500-S5-45	615 176 146 0	5500	300	0.4	0.67	1.47
B	DR300-T4500-T5-45	615 176 095 0	DR300-T4500-S5-45	615 176 145 0	4500	300	0.4	0.67	1.47
B	DR300-T3000-T5-45	615 176 093 0	DR300-T3000-S5-45	615 176 094 0	3000	300	0.4	0.67	1.47
B	DR300-T2000-T5-45	615 176 092 0	DR300-T2000-S5-45	615 176 144 0	2000	300	0.4	0.67	1.47
B	DR300-T1000-T5-45	615 176 091 0	DR300-T1000-S5-45	615 176 143 0	1000	300	0.4	0.76	1.67
B	DR300-T550-T5-45	615 176 090 0	DR300-T550-S5-45	615 176 142 0	550	300	0.4	0.76	1.67
90° - COLLET SPINDLE			90° - 1/4" x 28 SPINDLE		Max. capacity: 5mm (3/16")				
C	DR300-T5500-T5-90	615 176 083 0	DR300-T5500-S5-90	615 176 137 0	5500	300	0.4	0.68	1.5
C	DR300-T4500-T5-90	615 176 082 0	DR300-T4500-S5-90	615 176 136 0	4500	300	0.4	0.68	1.5
	DR300-T4500-T5-90 - BRB*	615 176 120 0			4500	300	0.4	0.68	1.5
C	DR300-T3000-T5-90	615 176 080 0	DR300-T3000-S5-90	615 176 081 0	3000	300	0.4	0.68	1.5
C	DR300-T2000-T5-90	615 176 079 0	DR300-T2000-S5-90	615 176 135 0	2000	300	0.4	0.68	1.5
C	DR300-T1000-T5-90	615 176 078 0	DR300-T1000-S5-90	615 176 134 0	1000	300	0.4	0.78	1.72
360° - COLLET SPINDLE			360° - 1/4" x 28 SPINDLE		Max. capacity: 5mm (3/16")				
D	DR300-T5500-T5-360	615 176 089 0	DR300-T5500-S5-360	615 176 141 0	5500	300	0.4	0.74	1.63
D	DR300-T4500-T5-360	615 176 088 0	DR300-T4500-S5-360	615 176 140 0	4500	300	0.4	0.74	1.63
D	DR300-T3000-T5-360	615 176 086 0	DR300-T3000-S5-360	615 176 087 0	3000	300	0.4	0.74	1.63
D	DR300-T2000-T5-360	615 176 085 0	DR300-T2000-S5-360	615 176 139 0	2000	300	0.4	0.74	1.63
D	DR300-T1000-T5-360	615 176 084 0	DR300-T1000-S5-360	615 176 138 0	1000	300	0.4	0.84	1.85

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

Angle Drills

Standard Head - Max capacity: 6.4mm (1/4")
Collet & 1/4" x 28 Spindle



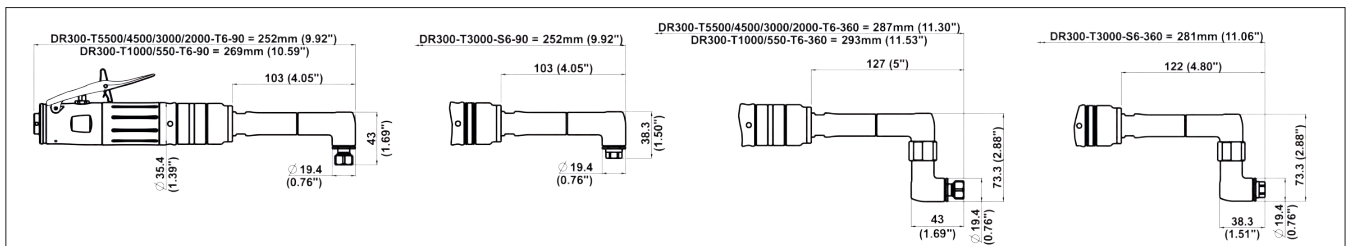
A DR300-T...-T/S6-90 Series
300 W (0.4hp) / 550 to 5500 rpm



C DR300-T...-T/S6-360 Series
300 W (0.4hp) / 550 to 5500 rpm



B DR450-T...-T/S6-90 Series
450 W (0.6hp) / 1400 to 5800 rpm



***BRB**
Button + Rear Bumper
available as well as accessory



ACCESSORIES
see page 213

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT	
					rpm	W	hp	kg	lb
90° - COLLET SPINDLE			90° - 1/4" x 28 SPINDLE		Max. capacity: 6.4mm (1/4")				
A	DR300-T5500-T6-90	615 176 103 0	DR300-T5500-S6-90	615 176 151 0	5500	300	0.4	0.7	1.54
A	DR300-T4500-T6-90	615 176 102 0	DR300-T4500-S6-90	615 176 150 0	4500	300	0.4	0.7	1.54
A	DR300-T4500-T6-90 - BRB*	615 176 124 0	DR300-T3000-S6-90	615 176 101 0	3000	300	0.4	0.7	1.54
A	DR300-T3000-T6-90	615 176 100 0	DR300-T2000-S6-90	615 176 149 0	2000	300	0.4	0.7	1.54
A	DR300-T3000-T6-90 - BRB*	615 176 123 0	DR300-T1000-S6-90	615 176 148 0	1000	300	0.4	0.79	1.74
A	DR300-T2000-T6-90	615 176 099 0	DR300-T550-S6-90	615 176 147 0	550	300	0.4	0.79	1.74
A	DR300-T2000-T6-90 - BRB*	615 176 122 0			1000	300	0.4	0.82	1.81
A	DR300-T1000-T6-90	615 176 098 0			2000	300	0.4	0.72	1.59
A	DR300-T1000-T6-90 - BRB*	615 176 121 0			3000	300	0.4	0.72	1.59
A	DR300-T550-T6-90	615 176 097 0			4500	300	0.4	0.72	1.59
B	DR450-T5800-T6-90	615 176 167 0	DR450-T5800-S6-90	615 176 172 0	5800	450	0.6	0.76	1.67
B	DR450-T4300-T6-90	615 176 166 0	DR450-T4300-S6-90	615 176 171 0	4300	450	0.6	0.76	1.67
B	DR450-T2700-T6-90	615 176 165 0	DR450-T2700-S6-90	615 176 170 0	2700	450	0.6	0.76	1.67
B	DR450-T1800-T6-90	615 176 164 0	DR450-T1800-S6-90	615 176 169 0	1800	450	0.6	0.85	1.87
B	DR450-T1400-T6-90	615 176 163 0	DR450-T1400-S6-90	615 176 168 0	1400	450	0.6	0.85	1.87
360° - COLLET SPINDLE			360° - 1/4" x 28 SPINDLE		Max. capacity: 6.4mm (1/4")				
C	DR300-T5500-T6-360	615 176 110 0	DR300-T5500-S6-360	615 176 156 0	5500	300	0.4	0.82	1.81
C	DR300-T4500-T6-360	615 176 109 0	DR300-T4500-S6-360	615 176 155 0	4500	300	0.4	0.82	1.81
C	DR300-T3000-T6-360	615 176 107 0	DR300-T3000-S6-360	615 176 108 0	3000	300	0.4	0.82	1.81
C	DR300-T3000-T6-360 - BRB*	615 176 125 0	DR300-T2000-S6-360	615 176 154 0	2000	300	0.4	0.82	1.81
C	DR300-T2000-T6-360	615 176 106 0	DR300-T1000-S6-360	615 176 153 0	1000	300	0.4	0.91	2
C	DR300-T1000-T6-360	615 176 105 0	DR300-T550-S6-360	615 176 152 0	550	300	0.4	0.91	2
C	DR300-T550-T6-360	615 176 104 0			3000	300	0.4	0.72	1.59

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

Angle Drills

Heavy Duty 90° Angle Head



A

DR300-T...-THD-90 Series
300 W (0.4hp) / 900 & 2000 rpm



B

DR300-T...-SHD-90 Series
300 W (0.4hp) / 900 & 2000 rpm



C

DR450-T...-THD-90 Series
300 W (0.4hp) / 900 & 2000 rpm



D

DR450-T...-SHD-90 Series
300 W (0.4hp) / 900 & 2000 rpm

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET
			rpm	W	hp	kg	lb	mm	in.	l/s	cfm.	in.
90° - COLLET SPINDLE Max capacity: 8mm (5/16")												
A	DR300-T2000-THD-90	615 176 111 0	2000	300	0.4	0.73	1.61	189.5	7.46	9.5	20	1/4
A	DR300-T900-THD-90	615 176 112 0	900	300	0.4	0.83	1.83	206	8.11	9.5	20	1/4
A	DR300-T600-THD-90	615 176 116 0	600	300	0.4	0.83	1.83	206	8.11	9.5	20	1/4
C	DR450-T3000-THD-90	615 176 176 0	3000	450	0.6	0.8	1.76	191.5	7.54	14	30	1/4
C	DR450-T1800-THD-90	615 176 175 0	1800	450	0.6	0.8	1.76	191.5	7.54	14	30	1/4
C	DR450-T1000-THD-90	615 176 174 0	1000	450	0.6	0.89	1.96	205.5	8.09	14	30	1/4
C	DR450-T650-THD-90	615 176 173 0	650	450	0.6	0.89	1.96	205.5	8.09	14	30	1/4
90° - KEY CHUCK Max capacity: 8mm (5/16")												
B	DR300-T2000-SHD-90	615 176 113 0	2000	300	0.4	0.86	1.89	189.5	7.46	9.5	20	1/4
B	DR300-T900-SHD-90	615 176 114 0	900	300	0.4	0.96	2.11	206	8.11	9.5	20	1/4
B	DR300-T600-SHD-90	615 176 117 0	600	300	0.4	0.96	2.11	206	8.11	9.5	20	1/4
D	DR450-T3000-SHD-90	615 176 180 0	3000	450	0.6	0.92	2.03	191.5	7.54	14	30	1/4
D	DR450-T1800-SHD-90	615 176 179 0	1800	450	0.6	0.92	2.03	191.5	7.54	14	30	1/4
D	DR450-T1000-SHD-90	615 176 178 0	1000	450	0.6	1.02	2.25	205.5	8.09	14	30	1/4
D	DR450-T650-SHD-90	615 176 177 0	650	450	0.6	1.02	2.25	205.5	8.09	14	30	1/4

All models: Air flow: Hose int. 6 mm (1/4")



Accessories for Angle Drills

Collet for Compact Angle Drills DR300-T5.. - Maximum capacity: 5 mm (3/16")

COLLET CAPACITY	PART NO.
Ø 0.8mm	2152
Ø 0.9mm	2162
Ø 1.0mm	2172
Ø 1.1mm	2182
Ø 1.2mm	2192
Ø 1.3mm	2202
Ø 1.4mm	2212
Ø 1.5mm	2222
Ø 1.6mm	2232
Ø 1.7mm	2242

COLLET CAPACITY	PART NO.
Ø 1.8mm	2252
Ø 1.9mm	2262
Ø 2.0mm	2272
Ø 2.1mm	2282
Ø 2.2mm	2292
Ø 2.3mm	2302
Ø 2.4mm	2312
Ø 2.5mm	2322
Ø 2.6mm	2332
Ø 2.7mm	2342

COLLET CAPACITY	PART NO.
Ø 2.8mm	2352
Ø 2.9mm	2362
Ø 3.0mm	2372
Ø 3.1mm	2382
Ø 3.2mm	2392
Ø 3.3mm	2402
Ø 3.4mm	2412
Ø 3.5mm	2422
Ø 3.6mm	2432
Ø 3.7mm	2442

COLLET CAPACITY	PART NO.
Ø 3.8mm	2452
Ø 3.9mm	2462
Ø 4.0mm	2472
Ø 4.1mm	2482
Ø 4.2mm	2492
Ø 4.3mm	2502
Ø 4.4mm	2512
Ø 4.5mm	2522
Ø 4.6mm	2532
Ø 4.7mm	2542

COLLET CAPACITY	PART NO.
Ø 4.8mm	2552
Ø 4.9mm	2562
Ø 5.0mm	2572
Ø 1/16"	91442
Ø 3/32"	91452
Ø 1/8"	91462
Ø 5/32"	91472
Ø 11/64"	108172
Ø 3/16"	91482



Collet for Standard Angle Drills DR300-T6.. - Maximum capacity: 6.4 mm (1/4")

COLLET CAPACITY	PART NO.
Ø 1.6mm (1/16")	18922
Ø 1.8mm	18932
Ø 2.0mm (5/64")	18942
Ø 2.2mm	18952
Ø 2.4mm	18962
Ø 2.6mm	18972
Ø 2.8mm (7/64")	18982

COLLET CAPACITY	PART NO.
Ø 3.0mm	18992
Ø 3.2mm (1/8")	19002
Ø 3.4mm	19022
Ø 3.6mm (9/64")	19032
Ø 3.8mm	19042
Ø 4.0mm (5/32")	19052
Ø 4.2mm	19062

COLLET CAPACITY	PART NO.
Ø 4.4mm (11/64")	19072
Ø 4.6mm	19082
Ø 4.8mm (3/16")	19092
Ø 5.0mm	19102
Ø 5.2mm (13/64")	19122
Ø 5.4mm	19132
Ø 5.6mm (7/32")	19142

COLLET CAPACITY	PART NO.
Ø 5.8mm	19152
Ø 6.0mm (15/64")	19162
Ø 6.2mm	19172
Ø 6.4mm (1/4")	19182



Collet for Heavy Duty Angle Drills DR300-THD.. - Maximum capacity: 8 mm (5/16")

COLLET CAPACITY	PART NO.
Ø 2.4mm (3/32")	2592
Ø 2.6mm	2602
Ø 2.8mm (7/64")	2612
Ø 3.0mm	2622
Ø 3.2mm (1/8")	2632
Ø 3.4mm	2642
Ø 3.6mm (9/64")	2652
Ø 3.8mm	2662

COLLET CAPACITY	PART NO.
Ø 4.0mm (5/32")	2672
Ø 4.2mm	2682
Ø 4.4mm	2692
Ø 4.6mm	2702
Ø 4.8mm (3/16")	2712
Ø 5.0mm	2722
Ø 5.2mm	2732
Ø 5.4mm	2742

COLLET CAPACITY	PART NO.
Ø 5.6mm	2752
Ø 5.8mm	2762
Ø 6.0mm	2772
Ø 6.2mm	2782
Ø 6.4 (1/4")	2792
Ø 6.6mm	2802
Ø 6.8mm	2812
Ø 7.0mm	2822

COLLET CAPACITY	PART NO.
Ø 7.2mm	2832
Ø 7.4mm	2842
Ø 7.6mm	2852
Ø 7.8mm	2862
Ø 8.0mm (5/16")	2872



ACCESSORIES INCLUDED

ITEM	COMPACT DR300-T5..	STANDARD DR300-T6..	COMPACT DR300-S5	STANDARD DR300-S6	HEAVY DUTY DR300-THD	DR300-SHD
	COLLET SPINDLE		1/4" X 28 SPINDLE		COLLET	CHUCK
1	Ø 4.8mm (3/16") capacity collet		2552			
2	Ø 6.4mm (1/4") capacity collet		19182			
3	Ø 8mm (5/16") capacity collet		2872			
4	Chuck threaded 3/8" UNF - cap 8mm (5/16") with key					205 053 013 3
	Chuck key					410213
5	Safety lever		205 051 259 3	205 051 259 3	205 051 259 3	205 051 259 3
	Flat wrench 8-9.5mm		268263			
	Flat wrenches 10mm		82623			

OTHER OPTIONAL ACCESSORIES

ITEM	DR300-T5.. DR300-S5..	DR300-T6.. DR300-S6..	DR300-THD..	DR300-SHD..
6	Inlet button with lever recess plugs	615 399 266 0	615 399 266 0	615 399 266 0
7	Short lever	205 050 299 3	205 050 299 3	205 050 299 3
8	Side handle			615 399 265 0
9	Kit silencer NPT	615 399 313 0	615 399 313 0	615 399 313 0
9	Kit silencer BSP	615 399 311 0	615 399 311 0	615 399 311 0
9	Kit Bumper	615 399 312 0	615 399 312 0	615 399 312 0



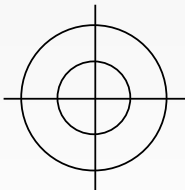


Pistol Grip Drills



■ Wide range of pistol drills with best in class power-to-weight ratio

■ How to make the right selection?

 1 Material drilled	 2 Diameter	 3 Tool power & speed	 4 Accessory for each application
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■ Tool range

Our range covers a wide range of applications to answer all your requirements

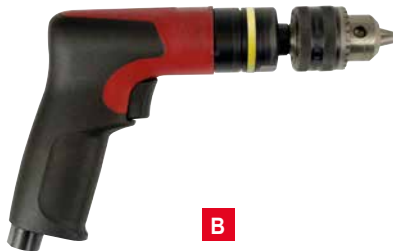
 DR350	 DR500	 DR750
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Pistol Grip Drills



A
DR350 Series
350 W (0.5hp) / 550 to 20000 rpm



B
DR500 Series
500 W (0.68hp) / 400 to 18500 rpm

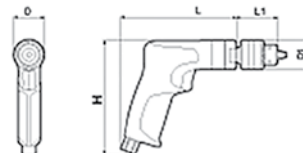


C
DR750 Series
750 W (1hp) / 400 to 20000 rpm



D

Color rings to identify your tools speed



Model	D		H	
	mm	in.	mm	in.
DR350-P..	35	1.38	135	5.3
DR500-P	36.5	1.44	135	5.3
DR750-P..	47	1.85	146	5.75

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT W/O CHUCK		LENGT L	
					rpm	W	hp	Nm	in.lb	kg	lb	mm	in.
DR350 - KEY CHUCK			DR350 - WITHOUT CHUCK										
A	DR350-P20000-C8	205 147 252 4	DR350-P20000*	205 147 359 4	20000	350	0.5	0.6	5.3	0.49	1.1	120	4.72
A	DR350-P5500-C8	205 147 250 4	DR350-P5500*	205 147 358 4	5500	350	0.5	2.3	20.4	0.49	1.1	136	5.35
A	DR350-P4500-C8	205 147 382 4	DR350-P4500*	205 147 384 4	4500	350	0.5	2.7	23.9	0.49	1.1	136	5.35
A	DR350-P3000-C8	205 147 248 4	DR350-P3000*	205 147 357 4	3000	350	0.5	4.0	35.4	0.49	1.1	136	5.35
A	DR350-P2000-C8	205 147 246 4	DR350-P2000*	205 147 356 4	2000	350	0.5	5.4	47.8	0.49	1.1	136	5.35
A	DR350-P1000-C10	205 147 244 4	DR350-P1000*	205 147 355 4	1000	350	0.5	12.7	112.4	0.57	1.3	154	6.06
A	DR350-P550-C10	205 147 242 4	DR350-P550*	205 147 354 4	550	350	0.5	18.6	164.6	0.57	1.3	154	6.06

All models DR350: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / * Chuck spindle 3/8" x 24 UNF

DR500 - KEY CHUCK					DR500 - WITHOUT CHUCK								
B	DR500-P18500-C8	205 147 676 4	DR500-P18500*	205 147 678 4	18500	500	0.68	1.0	8.85	0.56	1.2	141	5.55
B	DR500-P5800-C8	205 147 673 4	DR500-P5800*	205 147 675 4	5800	500	0.68	3.1	27.4	0.56	1.2	141	5.55
B	DR500-P4300-C8	205 147 670 4	DR500-P4300*	205 147 672 4	4300	500	0.68	4.2	37.2	0.56	1.2	141	5.55
B	DR500-P2700-C8	205 147 667 4	DR500-P2700*	205 147 669 4	2700	500	0.68	6.9	61.1	0.56	1.2	141	5.55
B	DR500-P1800-C10	205 147 664 4	DR500-P1800*	205 147 666 4	1800	500	0.68	9.9	87.6	0.64	1.4	155	6.1
B	DR500-P1400-C10	205 147 661 4	DR500-P1400*	205 147 663 4	1400	500	0.68	13.4	118.6	0.64	1.4	155	6.1
B	DR500-P1000-C10	205 147 658 4	DR500-P1000*	205 147 660 4	1000	500	0.68	18.0	159	0.64	1.4	155	6.1
B	DR500-P600-C13	205 147 655 4	DR500-P600*	205 147 657 4	600	500	0.68	28.7	254	0.64	1.4	155	6.1
B	DR500-P400-C13	205 147 652 4	DR500-P400*	205 147 654 4	400	500	0.68	46.0	407	0.64	1.4	155	6.1

All models DR500: Air Flow: 14 l/s (30 cfm) - Air inlet: 1/4" - Hose int. 10 mm (3/8") / * Chuck spindle 3/8" x 24 UNF

DR750 - KEY CHUCK					DR750 - WITHOUT CHUCK								
C	DR750-P20000-C8	205 146 659 4	DR750-P20000*	205 147 458 4	20000	750	1	1.6	14.2	0.9	2.0	152	5.98
C	DR750-P6000-C8	1465124	DR750-P6000*	205 147 417 4	6000	750	1	5.3	46.9	0.9	2.0	152	5.98
C	DR750-P4100-C8	1465114	DR750-P4100*	205 147 456 4	4100	750	1	7.1	62.8	0.9	2.0	152	5.98
C	DR750-P3300-C10	1465104	DR750-P3300*	205 147 455 4	3300	750	1	9.6	85.0	0.9	2.0	152	5.98
C	DR750-P2700-C10	1465094	DR750-P2700*	205 147 416 4	2700	750	1	11.1	98.2	0.9	2.0	152	5.98
C	DR750-P1300-C10	1465084	DR750-P1300*	205 147 415 4	1300	750	1	23.9	211	1.15	2.5	184	7.24
C	DR750-P750-C13	1465074	DR750-P750**	205 147 452 4	750	750	1	41.0	363	1.15	2.5	184	7.24
C	DR750-P400-C13	205 146 658 4	DR750-P400**	205 147 451 4	400	750	1	55.0	487	1.15	2.5	184	7.24

DR750 - JACOBS TAPER 1 SPINDLE - WITHOUT CHUCK

D	DR750-P20000-JT1	205 146 667 4	20000	750	1	1.6	14.2	0.9	2.0	152	5.98
D	DR750-P6000-JT1	205 146 666 4	6000	750	1	5.3	46.9	0.9	2.0	152	5.98
D	DR750-P3300-JT1	205 146 664 4	3300	750	1	9.6	85.0	0.9	2.0	152	5.98
D	DR750-P2700-JT1	205 146 663 4	2700	750	1	11.1	98.2	0.9	2.0	152	5.98
D	DR750-P1300-JT1	205 146 662 4	1300	750	1	23.9	211	1.15	2.5	184	7.24
D	DR750-P750-JT1	205 146 661 4	750	750	1	41.0	363	1.15	2.5	184	7.24
D	DR750-P400-JT1	205 146 660 4	400	750	1	55.0	487	1.15	2.5	184	7.24

All models DR750: Air Flow: 14 l/s (30 cfm) - Air inlet: 1/4" - Hose int. 10 mm (3/8") / Chuck spindle: * 3/8" x 24 UNF / **1/2" x 20 UNF



CHUCK SELECTION GUIDE FOR DR300-T... / DR350-P... / DR500-P... / DR750-P.

CHUCK PART NO.	CHUCK MOUNT	CHUCK CAPACITY		DIMENSIONS				WEIGHT		PART NO. KEY	DR3...P...C8	DR3...P...C10	DR500-P...C13	DR750-P...
		mm	in.	mm	in.	mm	in.	g	lb		DR500-P...C8	DR500-P...C10	DR750-P...C10	DR750-P...C13
														
205 055 272 3	3/8"-24	0.5 - 6.5	1/4	29.3	1.15	42.5	1.67	121	0.27	29182	O	O	O	
205 053 013 3	3/8"-24	0.5 - 8	5/16	29.3	1.15	42.5	1.67	120	0.26	410213	L			
205 052 954 3	3/8"-24	1 - 10	3/8	37	1.46	49.5	1.95	204	0.45	29232		L		
473113	3/8"-24	1.5 - 13	1/2	42	1.67	59	2.32	371	0.82	895 101 145 3			L	
29142	1/2"-20	1.5 - 13	1/2	42	1.67	59	2.32	362	0.80	895 101 145 3			L	
29492	1JT	0.5 - 6.5	1/4	29.3	1.15	42.5	1.67	112	0.25	29182				O
29042	1JT	0.8 - 10	3/8	34.5	1.36	48	1.89	231	0.51	29232				O
34752	2JT	1 - 10	3/8	42	1.67	61.5	2.4	386	0.85	895 101 145 3				O*
34332	2JT	1 - 13	1/2	50	1.97	67.5	2.66	900	1.98					O*
														
473433	3/8"-24	0 - 8	5/16	32	1.26	61.5	2.4	285	0.63		O	O		
473423	3/8"-24	0.5 - 10	3/8	35.8	1.4	66	2.6	390	0.86			O		
205 047 819 3	3/8"-24	1 - 13	1/2	40	1.58	76.3	3	559	1.23				O	
205 056 060 3	1/2"-20	1 - 13	1/2	40	1.58	76.3	3	548	1.21				O	
524.09	1JT	0 - 6.5	1/4	32	1.26	59.5	2.34	284	0.62					O
524.15	1JT	0.5 - 10	3/8	35.8	1.4	66	2.6	390	0.86					O
524.10	2JT	0.5 - 10	3/8	40	1.58	87.5	3.4	636	1.4					O*
524.16	2JT	1 - 13	1/2	46	1.8	91	3.6	904	1.99					O*

* To use 2JT chuck on DR750, add adaptor P.N. 12243

| INCLUDED WITH THE TOOL

O OPTIONAL ACCESSORIES



ACCESSORIES INCLUDED		DR350-P...C8 DR500-P...C8 DR750-P...C8.	DR350-P...C10 DR500-P...C10 DR750-P...C10	DR500-P...C13 DR750-P...C13
ITEM				
1	Chuck guard for DR350-P...C	205 049 275 3		
1	Chuck guard for DR500-P...C	205 049 486 3		
1	Chuck guard for DR750-P...C8 & C10	473143	473143	
2	Side handle for DR350-P550 & P1000	205 049 446 3	205 049 446 3	
2	Side handle for DR500-P400 to P1800		205 053 102 3	205 053 102 3
2	Side handle for DR750-P	473173	473173	473173
3	Suspension bail for DR750-P	473153	473153	473153
With DR300/350/450/500				
4	Set of color plastic rings	615 399 250 0		

OTHER OPTIONAL ACCESSORIES



ITEM		DR350-P...	DR500-P...	DR750-P...	DR750-P...JT1 MOUNT
	• Chuck guard for DR750-P...JT1 with chuck key - cap 6.5mm (1/4")				473143
2	Side handle for DR350 / 500	205 049 446 3	205 053 102 3		
	• Adaptor - JT1 female to JT2 male (for DR750-P...JT1)				12243
	• Flat wrench, 12.7mm (1/2")				15533

Straight Grip Drills



A

DR300 Series
300 W (0.4hp) / 550 to 20000 rpm

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT W/O CHUCK		LENGHT W/O CHUCK	
					rpm	W	hp	Nm	in.lb	kg	lb	mm	in.
DR300 - KEY CHUCK					DR300 - WITHOUT CHUCK								
A	DR300-T20000-C8	615 176 065 0	DR300-T20000	615 176 064 0	20000	300	0.4	0.6	5.3	0.44	0.97	138	7.28
A	DR300-T5500-C8	615 176 063 0	DR300-T5500	615 176 062 0	5500	300	0.4	2.3	20.4	0.49	1.08	167	6.57
A	DR300-T4500-C8	615 176 061 0	DR300-T4500	615 176 060 0	4500	300	0.4	2.7	23.9	0.49	1.08	167	6.57
A	DR300-T3000-C8	615 176 059 0	DR300-T3000	615 176 058 0	3000	300	0.4	4.0	35.4	0.49	1.08	167	6.57
A	DR300-T2000-C8	615 176 057 0	DR300-T2000	615 176 056 0	2000	300	0.4	5.4	47.8	0.49	1.08	167	6.57
A	DR300-T1000-C10	615 176 055 0	DR300-T1000	615 176 054 0	1000	300	0.4	12.7	112.4	0.60	1.32	184	7.24
A	DR300-T550-C10	615 176 053 0	DR300-T550	615 176 052 0	550	300	0.4	18.6	164.6	0.60	1.32	184	7.24

All models DR300: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / Chuck spindle 3/8" x 24 UNF

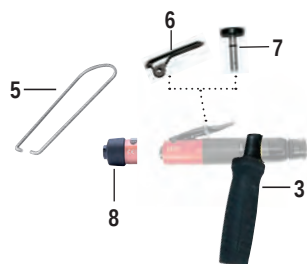


ACCESSORIES INCLUDED

ITEM		DR300-P...C8	DR300-P...C10
1	Keyed chuck 3/8" UNF - cap 8mm (5/16") (with key)	205 053 013 3	-
1	Keyed chuck 3/8" UNF - cap 10mm (3/8") (with key)	-	205 052 954 3
•	Chuck key	410213	29232
2	Chuck guard for DR300-P...C8	615 049 275 3	-
3	Side handle for DR300-T..C10	-	205 049 446 3
4	Safety lever for DR300-T..	205 050 288 3	205 050 288 3
•	Exhaust hose for DR300-T...	205 051 259 3	205 051 259 3



DESCRIPTION	PART NO.
DR300 Set of color plastic rings	615 399 250 0



OPTIONAL ACCESSORIES

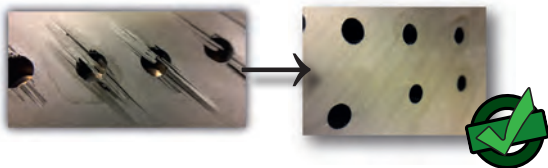
ITEM		DR300
3	Side handle for DR300	615 399 265 0
5	Suspension Bail	280893
6	Short lever	205 050 299 3
7	Kit inlet button	615 399 266 0
8	Kit silencer NPT	615 399 313 0
8	Kit silencer BSP	615 399 311 0
8	Kit Bumper	615 399 312 0



Controlled drilling



- Full range of solutions for composite drilling applications
- Avoid quality issues with thrust limitation device, which eliminates:
 - Composite delamination
 - Breakout burrs
 - Excessive wear on cutters
 - Operator dependence
- Easily adaptable to standard Desoutter pistol & straight drills
- Fully customizable (bushing, Vacuum...)
- Easy cutter change



Adjustable thrust limitation force
Option: activation of thrust limitation only at exit point

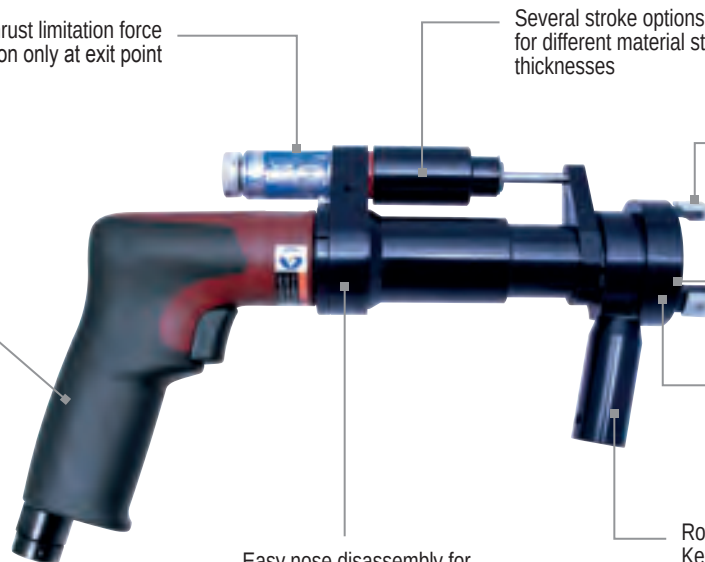
Several stroke options,
for different material stack
thicknesses

Nylon Protective Tripod Feet
Protects drilling surface

Rotating Tripod Foot
Ensures perpendicularity

Guided Drill Bushing
Ensures perfect Run-Out

Wide range of tools,
shapes and speeds
Easy adaptation to
Desoutter drill range



Easy nose disassembly for
cutter replacement

Rotating Vacuum Shroud
Keeps working area
clean and safe

How to order:

DR500-P18500 - STR25 - 4.5 NVT



1 Tool power & ergonomics
Pistol tools: see page 216
DR350: 350W (0,5hp)
DR500: 500W (0,68hp)
Straight tools: see page 218
DR300: 300W (0,4hp)
DR450: 450W (0,6hp)

2 Tool Speed
3 HCU Unit Stroke
STR25: 25mm (1")
STR37 : 37mm (1.5")
* More strokes available on demand

4 Cutter size
Collets Series 200

DESCRIPTION	PART NO.
Collet Ø2.4 to 3.2mm	615 526 061 0
Collet Ø3.2 to 4mm	615 526 151 0
Collet Ø3.7 to 4.5mm	615 526 152 0
Collet Ø4.2 to 5mm	615 526 153 0
Collet Ø 5.2 to 6mm	615 526 062 0
Collet Ø7.2 to 8mm	615 526 064 0
Collet Ø 8.7 to 9.5mm	615 526 065 0
Collet Ø1/4" (Ø5.55 to 6.35mm)	615 526 063 0

5 Nose type
N: No tripod
V: Vacuum
T: Tripod

Tappers



A
T500 Series
0.5kW (0.68hp) / 400 & 600 rpm



B
T450 Series
0.5kW (0.68hp) / 400 & 600 rpm

PIC REF	MODEL	PART NUMBER	FREE SPEED	REVERSE SPEED	MOTOR POWER		MAX. TAPPING TORQUE		WEIGHT		LENGTH		AIR FLOW		AIR INLET
					kW	hp	STEEL	ALUMINIUM	kg	lb	mm	in.	l/s	cfm	

TAPPERS

A	T500-P400	205 147 995 4	400	800	0.5	0.68	M10	M12	0.64	1.4	263	10.35	14	30	1/4
A	T500-P600	205 147 996 4	600	1200	0.5	0.86	M10	M12	0.64	1.4	263	10.35	14	30	1/4
B	T450-T400	615 176 181 0	400	800	0.5	0.68	M10	M12	0.64	1.4	263	10.35	14	30	1/4
B	T450-T600	615 176 182 0	600	1200	0.5	0.86	M10	M12	0.64	1.4	263	10.35	14	30	1/4

All models T500-P: Hose int. 10 mm (3/8")



OPTIONAL ACCESSORIES

ITEM		PART NO.
1	Keyed chuck (1JT) - 0,8 to 10mm (3/8") (with key) T500-P400	29042
1	Keyed chuck (1JT) - 0,5 to 6,5mm (1/4") (with key) T500-P600	29492
	• Chuck key - T500-P400	29232
	• Chuck key - T500-P600	410213
2	Precision collet tap holder (including collet cap. M3 to M8)	29452
	• Collet capacity M3 to M7 (1/8" to 9/32")	29482
	• Collet capacity M4 to M8 (5/32" to 5/16")	29472
3	Collet capacity M6 to M12 (15/64" to 15/32")	97982
4	Tap Holder (1 JT)	69922
5	Quick Release Chuck (1 JT)	16852
6	Quick Release Tap Holder (1 JT)	69872

Collets for Tap Holders:

TAP SIZE		BA	SHANK DIA.	PART NO
mm	in.		mm	
M2.2 & M2.5		6 & 8	2.8	2612
M3	1/8	5	3.2	2632
M3.5		4	3.6	2652
M4			4.0	2672
M4.5		3	4.5	2702
M5	3/16	2	5.0	2722
M5.5	7/32	1	5.6	2752
M6	1/4	0	6.3	2792
M7	9/32		7.1	2832
M8 & M11	5/16 & 7/16		8.0	2872
M9 & M12	1/2		9.0	69882
M10	3/8		10.0	69892

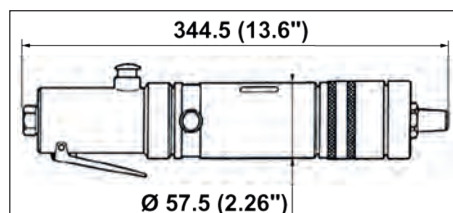
*Wrench for Tap Holder collet nut

*2mm A/F hexagon key for Tap Holder grub screws

206773



A
2H16 Series
Variable speed setting
90 to 500 rpm - 47 to 240 Nm



PIC REF	MODEL	PART NUMBER	LOW SPEED SETTING	HIGH SPEED SETTING	MAX. TAPPING TORQUE		WEIGHT		AIR FLOW		AIR INLET
					LOW SPEED	HIGH SPEED	kg	lb	l/s	cfm	

TAPPERS

A	2H16-L-160/500-B18	1434264	160	500	140	103	47	34.7	3.1	6.8	15.6	33	3/8
A	2H16-L-90/250-B18	1434344	90	250	240	177	90	66.4	3.1	6.8	15.6	33	3/8

All models 2H16-L: Hose int. 10mm (3/8")

Deburring tools & Rivet Shaver



A

C27-LX-1450
1450 rpm
Collet size 6,4mm (1/4")



C

C27-LX300/400-T6-90 - BRB
300-400 rpm
Collet size 6,4mm (1/4")



E

RS450 Series
18500 rpm



B

C27-LX300-T6-45 - BRB
300 rpm
Collet size 6,4mm (1/4")



D

C27-LX300-QR
300 rpm
Collet size 6,4mm (1/4")



F

RS500 Series
18500 rpm



***BRB**
Button + Rear Bumper
available as well as accessory

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET SIZE	MAXIMUM CUTTER DIA.		WEIGHT		LENGTH		AIR FLOW		AIR INLET	HOSE INT. Ø	
					mm	in.	kg	lb	mm	in.	l/s	cfm		mm	in.

HOLE DEBURRING TOOLS

A	C27-LX-1450	615 176 115 0	1450	6.4 (1/4")*	–	–	0.68	1.5	220.5	8.68	9.5	20	1/4	6	1/4
B	C27-LX300-T6-45 - BRB*	615 176 126 0	300	6.4 (1/4")*	–	–	0.82	1.81	291.5	11.48	8	17	1/4	6	1/4
C	C27-LX300-T6-90 - BRB*	615 176 128 0	300	6.4 (1/4")*	–	–	0.82	1.81	291.5	11.48	8	17	1/4	6	1/4
C	C27-LX400-T6-90 - BRB*	615 176 127 0	400	6.4 (1/4")*	–	–	0.82	1.81	291.5	11.48	8	17	1/4	6	1/4
D	C27-LX300-QR - BRB*	615 176 129 0	300	6.4 (1/4")*	–	–	0.58	1.27	187	7.36	8	17	1/4	6	1/4

RIVET SHAVER

E	RS450-T-18500 (1/4"UNF)	615 176 184 0	18500	1/4"-28 UNF	14.3	9/16	1.2	2.64	216	8.5	14	30	1/4		
E	RS450-T-18500 (1/4"WHIT)	615 176 183 0	18500	1/4"-26 WHIT	14.3	9/16	1.2	2.64	216	8.5	14	30	1/4		
F	RS500-P18500 (1/4"UNF)	205 148 129 4	18500	1/4"-28 UNF	14.3	9/16	1.2	2.64	216	8.5	14	30	1/4	10	3/8
F	RS500-P18500 (1/4"WHIT)	205 148 130 4	18500	1/4"-26 WHIT	14.3	9/16	1.2	2.64	216	8.5	14	30	1/4	10	3/8

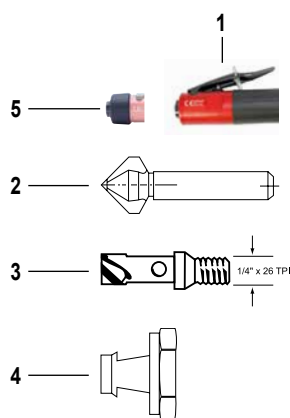
*: If speed adjustment is needed, you can do it with flow regulator PN LC121737

ACCESSORIES INCLUDED

ITEM	C27-LX	RS500
• ø 6.4mm (1/4") capacity collet	615 526 063 0	
1 Safety lever	205 050 288 3	
2 Cutter (90° point) – 10mm dia	91572	
3 Cutter – carbide tipped (11.1mm 7/16" dia)		70602
4 Cutter Guard		18822
• Wrench 19A/F	615 801 005 0	
• Collet Spindle Wrench	615 801 076 0	15533
• Cutter Guard Wrench		38873

OPTIONAL ACCESSORIES

ITEM	RS500
3 Cutter – carbide tipped ø6.4mm (ø1/4")	70572
3 Cutter – carbide tipped ø7.9mm (ø5/16")	70582
3 Cutter – carbide tipped ø9.5mm (ø3/8")	70592
3 Cutter – carbide tipped ø12.7mm (ø1/2")	70622
4 Cutter Guard ø6.4mm (ø1/4")	18782
4 Cutter Guard ø7.9mm (ø5/16")	18792
4 Cutter Guard ø9.5mm (ø3/8")	18802
4 Cutter Guard ø12.7mm (ø1/2")	18832
4 Cutter Guard ø14.3mm (ø9/16")	18842
5 Kit silencer NPT	615 399 313 0
5 Kit silencer BSP	615 399 311 0
5 Kit Bumper	615 399 312 0



Rack Feed Drills

- The Rack Feed Drill is a semi-fixtured (nose mounted) portable drilling unit, utilising a manual feed through an integral "rack and pinion" mechanism to accommodate the approach drilling and retract cycles. This provides the user with complete control of the feed rate during drilling and allows the user to "feel" the feed rate required. Versatile and flexible, especially when drilling laminates and sandwich materials.
- RFD is suitable for drilling/reaming various materials used in the Aerospace industries e.g. Inconel, Titanium, Steel, Aluminium and Composites.



■ RFD-100

Speed range 60 to 2800 rpm
102mm (4") adjustable stroke
13mm (1/2") chuck capacity

■ RFDT-125

Speed range 60 to 800 rpm
127mm (5") adjustable stroke
No. 2 Morse taper spindle



For a Vacuum Kit option,
please contact your local
Desoutter representative

How to select your tool?

1 Select material

2 Select hole size

3 Select tool

RFD Selection

DRILL Ø	TOOL TYPE - RPM			
	Inconel	1 Titanium	Mild Steel	Aluminium
3mm - 1/8"	RFD(T)-330/500	RFD(T)-500	RFD-2800	RFD-2800
5mm - 3/16"	RFD(T)-140/330	RFD(T)-330/500	RFD-1850	RFD-2800
6mm - 1/4"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD-1850
8mm - 5/16"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD(T)-800
10mm - 3/8" 2	RFD(T)-85/140	RFD(T)-140 3	RFD(T)-800	RFD(T)-800
13mm - 1/2"	RFD(T)-60/85	RFD(T)-85/140	RFD(T)-500	RFD(T)-800
16mm - 5/8"		RFD(T)-85/140	RFD(T)-330	RFD(T)-800
19mm - 3/4"		RFD(T)-60/85	RFD(T)-85/140	RFD(T)-330/500
25mm - 1"			RFD(T)-60/85	RFD(T)-140/330

Use selection data as a guide only

MODEL	PART NUMBER	FREE SPEED	MAX STROKE		OUTPUT SPINDLE	CHUCK SPINDLE	LENGTH		WEIGHT		AIR FLOW		AIR INLET
			mm	in.			mm	in.	kg	lb	l/s	cfm	

RFD

RFD-100-2800	681214	2800	102	4		1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-1850	681394	1850	102	4		1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-800	680084	800	102	4	Chuck	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-500	680164	500	102	4	13mm	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-330	680244	330	102	4	(1/2")	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-140	1457364	140	102	4	capacity	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-85	1457374	85	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-60	1457384	60	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4

RFDT

RFDT-125-800	1445654	800	127	5			764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-500	1445664	500	127	5	No. 2		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-330	1445674	330	127	5	Morse		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-140	1445504	140	127	5	Taper		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-85	1445514	85	127	5			764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-60	1445524	60	127	5			764	30.08	5.5	12.1	11.8	25	1/4

All models: Hose int. 10 mm (3/8")

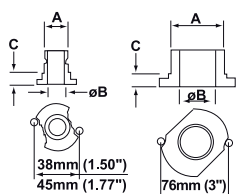


ACCESSORIES INCLUDED

	PART NUMBER	
	RFD	RFD T
• Chuck with key capacity 13mm (5/8"x16)	29122	-
• Chuck with key capacity 13mm (1/2")	29142	-
• Extended Nose (1" x 14 LH nose thread)	251043	-
• Bayonet Plate – 45mm (1.77") centres	251063	-
• Bayonet Plate – 76mm (2.99") centres	-	35223

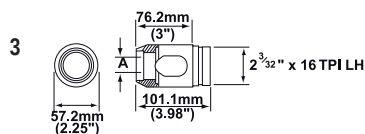
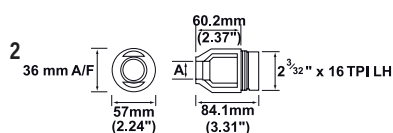
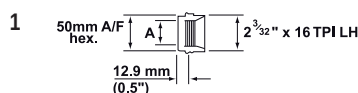
OPTIONAL ACCESSORIES

For more details on the following Part Numbers, please contact your local Desoutter representative



Bayonet Plates

	A	Ø B	C
Locating centres – 38mm (1.50")	3/4" x 16 (LH)	14.2mm (0.559")	9.5mm (3/8")
Locating centres – 45mm (1.77")	1" x 14 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres – 45mm (1.77")	1 1/8" x 20 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres – 76mm (2.99")	2 3/32" x 16 (LH)	38.1mm (1.150")	12.7mm (1/2")

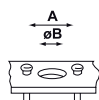
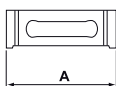


Nose Attachments

NOSE TYPE	TO SUIT BAYONET PLATE CENTRES	THREAD 'A'
1	38mm (1.50")	3/4" x 16 (LH)
2	38mm (1.50")	3/4" x 16 (LH)
2	45mm (1.77")	1" x 14 (LH)
3	-	1-1/4" x 12 (LH)
3	-	1-1/4" x 12 (LH)
3	-	2" x 16 (LH)

Extension Tubes

NOMINAL STROKE AVAILABLE TO DRILL	LENGTH 'A'
• 80mm (3.15")	170mm (6.69")



Jig Plates

CENTRE "A"
38mm (1.50")
45mm (1.77")

Drill bushes

ATTACHMENT	"Ø B"
Ø 14.2mm	Ø 10 to 14mm
Ø 19.05mm	Ø 10 to 18mm
Ø 38.01mm	Ø 22 to 35mm

For dimension 'ØB' please ask for details of our range of drill bushes

Compression Tools



SQUEEZERS

- Wide range of Alligator Jaws & C-Yokes tools.
- Excellent power-to-weight ratio.
- Fast and slow approach.
- Robust and reliable design.

How to select the right tool?



1

Rivet

Material
Diameter



2

Application

Accessibility
Customer specification



3

Select tool

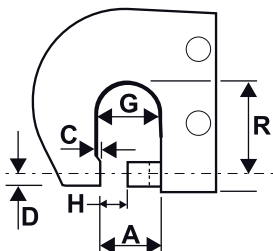
Power required (p.189)
C-Yoke or Alligator
Gap & Reach figures



4

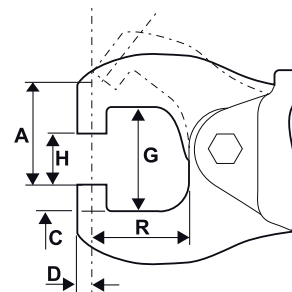
Select Rivet set & shims

Rivet set shank
Rivet set type
Rivet set length



Jaw and Yoke Terminology:
(rivet sets are not in place
in this illustration)

A Throat gap
C Anvil work clearance
D Lower offset
G Total yoke gap
H Closed height
R Reach



C YOKE MODEL	A		C		D		G		H		R	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CP0214CELEL	32	1-1/4	-	-	5	3/16	32	1-1/4	17.5	11/16	38	1-1/2
CP0214FALEL	32	1-1/4	-	-	5	3/16	32	1-1/4	17.5	11/16	38	1-1/2
CP0214SETEL	32	1-1/4	-	-	6.4	1/4	32	1-1/4	17.5	11/16	38	1-1/2
CP0214KETEL	32	1-1/4	-	-	6.4	1/4	32	1-1/4	17.5	11/16	38	1-1/2
CP0351CUDEL	39	1-17/32	-	-	5.5	7/32	29	1-5/32	20	25/32	54	2-1/8
CP0351FUDEL	39	1-17/32	-	-	5.5	7/32	29	1-5/32	20	25/32	54	2-1/8
CP0341CUDEL	57	2-1/4	3	1/8	9	11/32	70	2-3/4	25	1	54	2-1/8
CP0214FAXEL	44	1-3/4	-	-	5	3/16	44	1-3/4	17.5	11/16	50.8	2.5
CP0214FAREL-5	36	1,417	-	-	8	0,313	36	1,417	17/20	0,669	10,787	50
CP0214 CEREL-5	36	1,417	-	-	8	0,313	36	1,417	17/20	0,669	10,787	50

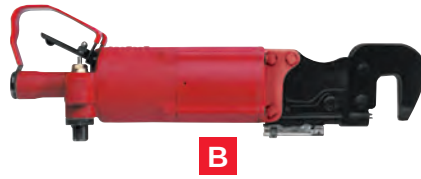
ALLIGATOR MODEL	A		D		G		H		R	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CP0214ANGEL	54	2-1/8	5.5	7/32	54	2-1/8	22	7/8	76	3
CP0214ENGEL	54	2-1/8	5.5	7/32	54	2-1/8	22	7/8	76	3
CP0214ANFEL	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ENFEL	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ENCHEL-5	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ANBEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	38	1-1/2
CP0214ENBEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	38	1-1/2
CP0351ASFEL	62	2-7/16	5.5	7/32	56	2-3/16	19	3/4	232	9-1/8
CP0351ESVEL	62	2-7/16	5.5	7/32	56	2-3/16	19	3/4	232	9-1/8
CP0351ESREL	81	3-3/16	5.5	7/32	51	2	38	1-1/2	178	7
CP0351ASKEL	57	2-1/4	5.5	7/32	41	1-5/8	22	7/8	127	5
CP0351ESKEL	57	2-1/4	5.5	7/32	41	1-5/8	22	7/8	127	5
CP0351ASGEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	73	2-7/8
CP0351ESGEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	73	2-7/8



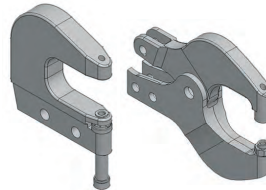
Riveting Compression Tools



A



B



C



D



E

New available adjustable rivet set holders for C-Yoke & Alligator tools. Comes with 5mm rivet set shank. Search for the "-5" tools in the list below.

CP0214

CP0351

CP0341 - Pneumatic TM --> Full power through the full stroke

PIC REF	MODEL	PART NUMBER	CAPACITY				MAX FORCE		MOVING PLUNGER				STANDARD YOKE DIMENSIONS				LENGTH		WEIGHT	
			LIGHT		HARD				MAX TRAVEL		FINAL PART OF STROKE AT MAX. FORCE		REACH R		CLOSED HEIGHT H					
							mm	in.									mm	in.	kN	lb

C-YOKE (single cylinder)

A	CP0214CELEL*	T012344	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	38.1	1-1/2	17.5	11/16	262	10.3	2.0	4.41
A	CP0214CEREL-5	6151710160	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	50	1,969	17/20	0,669/0,787	262	10.3	2.0	4.41
	CP0214CENEL	T018677	Same power unit as above without yoke																	
B	CP0351CUDEL*	T008955	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	3.2	0.125	54	2-1/8	19.8	25/32	445	17.5	5.7	12.6
	CP0351CUNEL	T007772	Same power unit as above without yoke																	

C-YOKE (tandem cylinder)

A	CP0214FALEL*	T013152	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	38.1	1-1/2	17.5	11/16	356	14	2.5	5.5
A	CP0214FALEL-5	6151710150	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	50	1,969	17/20	0,669/0,787	356	14	2.5	5.5
A	CP0214FAXEL*	T022528	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	50.8	2.5	17.5	11/16	366	14.4	2.6	5.7
	CP0214FANEL	T018430	Same power unit as above without yoke																	
A	CP0214KETEL**	T023475	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	38.1	1-1/2	17.5	11/16	356	14	2.5	5.5
B	CP0351FUDEL*	T012608	6.4	1/4	5.6	7/32	53.40	12,000	14.3	9/16	3.2	0.125	54	2-1/8	19.8	25/32	552	21.7	6.9	15.2

ALLIGATOR (single cylinder)

C	CP0214ANBEL*	T012343	3.2	1/8	2.4	3/32	13.35	3,000	15.9	5/8	1.3	0.050	38.1	1-1/2	22.2	7/8	233	9.17	1.7	3.75
C	CP0214ANFEL*	T018671	2.4	3/32	2.4	3/32	9.79	2,200	22.2	7/8	2.4	0.094	57.1	2-1/4	22.2	7/8	254	10	1.9	4.18
C	CP0214ANGEL*	T018672	2.4	3/32	1.6	1/16	8.01	1,800	31.8	1-1/4	1.4	0.056	76.2	3	22.2	7/8	273	10.7	2.0	4.41
	CP0214ANPEL	T019138	Same power unit as above without yoke																	
D	CP0351ASGEL*	T007783	4.0	5/32	3.2	1/8	23.14	5,200	15.9	5/8	3.2	0.125	73	2-7/8	22.2	7/8	495	19.5	7.1	15.6
D	CP0351ASKEL*	T007773	3.2	1/8	2.4	3/32	15.13	3,400	34.0	1-3/8	4.8	0.188	127	5	22.2	7/8	549	21.6	9.0	19.8
D	CP0351ASVEL*	T009582	3.2	1/8	2.4	3/32	13.35	3,000	42.9	1-11/16	1.6	0.063	232	9-1/8	19.1	3/4	654	25.7	11.9	26.2

ALLIGATOR (tandem cylinder)

C	CP0214ENGEL*	T018164	3.2	1/8	2.4	3/32	15.13	3,400	31.8	1-1/4	2.6	0.104	76.2	3	22.2	7/8	343	13.5	2.5	5.51
C	CP0214ENFEL*	T018163	4.0	5/32	3.2	1/8	19.14	4,300	22.2	7/8	2.4	0.094	57.1	2-1/4	22.2	7/8	324	12.8	2.4	5.28
C	CP0214ENCENEL-5	6151710170	4.0	5/32	3.2	1/8	19.14	4,300	22.2	7/8	2.4	0.094	57.1	2-1/4	17.2/22.2	0.68/0.87	324	12.8	2.4	5.28
C	CP0214ENBEL*	T018678	4.8	3/16	4.0	5/32	26.70	6,000	15.9	5/8	1.6	0.063	38.1	1-1/2	22.2	7/8	303	11.9	2.2	4.85
D	CP0351ESKEL*	T012603	4.8	3/16	4.0	5/32	30.26	6,800	34.0	1-3/8	4.8	0.188	127	5	22.2	7/8	657	25.9	10.2	22.5
D	CP0351ESREL*	T012604	4.8	3/16	4.0	5/32	26.70	6,000	42.9	1-11/16	4.8	0.188	178	7	38.1	1-1/2	708	27.9	12.2	26.9
D	CP0351ESVEL*	T012605	4.8	3/16	4.0	5/32	26.70	6,000	42.9	1-11/16	1.6	0.063	232	9-1/8	19.1	3/4	762	30	13.2	29.1
D	CP0351ESGEL*	T012602	6.4	1/4	4.8	3/16	46.28	10,400	15.9	5/8	3.2	0.125	73	2-7/8	22.2	7/8	603	23.7	8.4	18.5

C-YOKE (pneumatic™)

E	CP0341CUDEL**	T022512	7.1	9/32	6.4	1/4	60.1	13,500	31.8	1-1/4	Full stroke
	CP0341CUNEL	T022493	Same power unit as above without yoke								

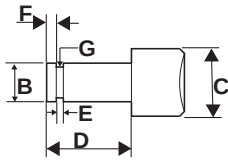
* CR1 / ** CR2 // -5 = 5mm rivet set shank

Compression Tools - Riveting

Rivet set shank (CR1/CR2)

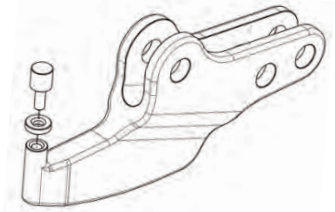
SHANK DIMENSIONS FOR RIVET SETS

For CP0214, CP0351 and CP0341 Compression Riveters

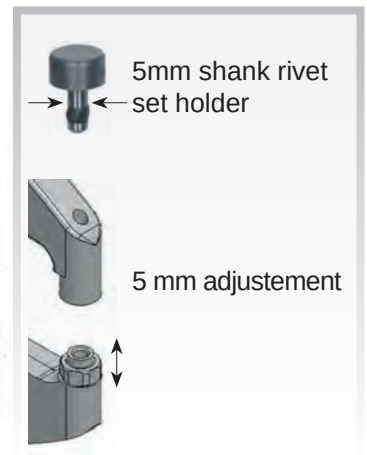
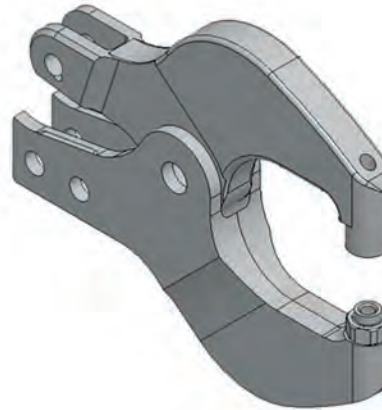
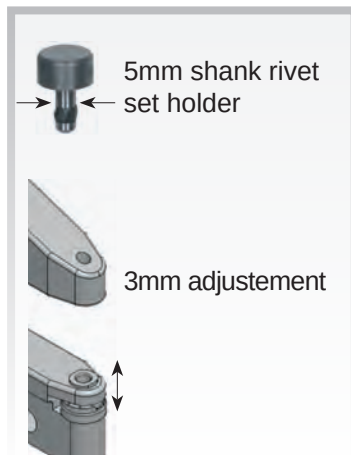
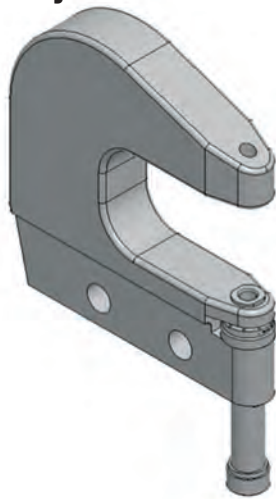


TYPE OF RIVET SET SHANK	B		C*		D		E		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CR-1 (ø 4.8mm 3/16")	4.75-4.72	0.187-0.186	12.7	1/2	12.7	1/2	3.45-3.38	0.136-0.133	1.6	1/16	3.23-3.12	0.127-0.123
CR-2 (ø 6.4mm 1/4")	6.42-6.40	0.249-0.248	15.9	5/8	15.9	5/8	3.45-3.38	0.136-0.133	2.4	3/32	4.80-4.70	0.189-0.185

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



Adjustable Rivet set shank 5mm



Rivet set length calculation

To develop maximum power, the riveter must drive (set) the rivet at the end of the riveter's stroke
For maximum power the combined length of the two rivet sets must be of the correct length

$$A1+A2 = H-M-Z$$

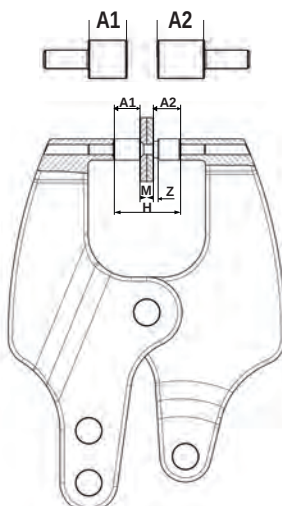
A1: Rivet set thickness (mobile jaw)

A2: Rivet set thickness (fix jaw)

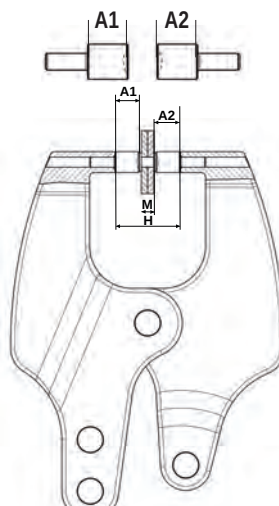
H= Opening at the end of the riveting

M= Total thickness of material to be assembled

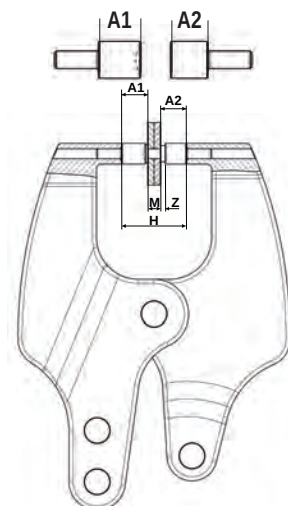
Z= height of finished rivet head (flush)



Two Flushed rivet sets



Two cupped rivet sets
Z = 0



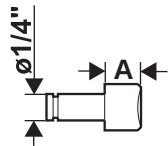
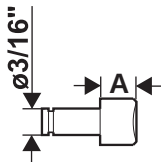
1 flushed rivet + cupped rivet set



Compression Tools - Rivet sets

Rivet set Selection

CUPPED SETS



RIVET DIAMETER		'A' BODY		AN-470 UNIVERSAL
mm	in.	mm	in.	

CR-1 SHANK RIVET SETS FOR CP0214 and CP0351 - CUPPED SETS

(C-Yoke tools - CP0214 CELEL, FALEL, CUDEL, FUEL + all Alligator Yoke tools)

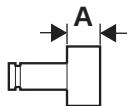
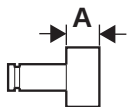
2.4	3/32	6.4	1/4	P089430
2.4	3/32	9.5	3/8	P089431
2.4	3/32	12.7	1/2	P089432
3.2	1/8	6.4	1/4	P089435
3.2	1/8	9.5	3/8	P089436
3.2	1/8	12.7	1/2	P089437
4.0	5/32	6.4	1/4	P089440
4.0	5/32	9.5	3/8	P089441
4.0	5/32	12.7	1/2	P089442
4.8	3/16	6.4	1/4	P089445
4.8	3/16	9.5	3/8	P089446
4.8	3/16	12.7	1/2	P089447

CR-2 SHANK RIVET SETS FOR CP0214 and CP0341 - CUPPED SETS

(C-Yoke tools - CP0214 SETEL, KETEL + CP0341 CUDEL)

3.2	1/8	6.4	1/4	P089510
3.2	1/8	9.5	3/8	P089511
3.2	1/8	12.7	1/2	P089512
4.0	5/32	6.4	1/4	P089515
4.0	5/32	9.5	3/8	P089516
4.0	5/32	12.7	1/2	P089517
4.8	3/16	6.4	1/4	P089520
4.8	3/16	9.5	3/8	P089521
4.8	3/16	12.7	1/2	P089522
6.4	1/4	6.4	1/4	P089525
6.4	1/4	9.5	3/8	P089526
6.4	1/4	12.7	1/2	P089527

FLUSH SETS for any rivet size

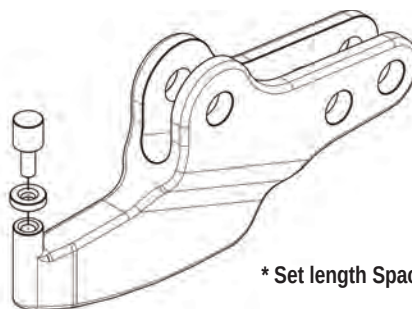


SHANK SIZE	"A" BODY LENGTH					
	3.2mm (1/8")	6.4mm (1/4")	9.5mm (3/8")	12.7mm (1/2")	15.8mm (5/8")	19mm (3/4")
CR-1 (ø 4.8mm 3/16")	P089495	P089496	P089497	P089498	P089499	P089500
CR-2 (ø 6.4mm 1/4")	-	P089501	P089502	P089503	P089504	-

SOFT SETS BLANKS

TYPE OF RIVET SET SHANK	A BODY LENGTH		B BODY DIA.		PART NO.
	mm	in.	mm	in.	
CR-1 (ø 4.8mm 3/16")	19.1	3/4	15.9	5/8	P093672
CR-2 (ø 6.4mm 1/4")	19.1	3/4	19.1	3/4	P093673

RIVET SET * SHIM



* Set length Spacer Shims

SET LENGTH SPACER SHIMS

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

RIVET SET

TYPE OF RIVET SET SHANK	RETAINER RING
	PART NO.
CR-1	P071916
CR-2	P071917



Riveting Hammers



- Wide range of hammers suitable for all applications.
- Recoilless series for better operator's comfort.
- Progressive trigger for better control.

How to select the right tool?



1

Rivet
Light/Hard Material
Diameter



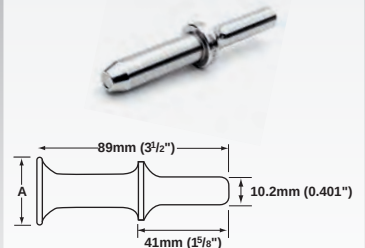
2

Application
accessibility



3

Operation repetitiveness
Low vibration level



4

Rivet set
selection

Tool range

Our range covers a wide range of applications to answer all your requirements



CP4444



CP4447



CP4450



CP4475



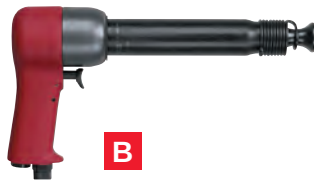
CP4450-5

Riveting Hammers

Selection guide



A



B



C



D



E

PIC REF	MODEL	PART NUMBER	AIR FRAME REF	BLOW PER MINUTE	BORE & STROKE	ENERGY PER BLOW		CHISEL SHANK		RIVET CAPACITY		WEIGHT		AIR INLET	HOSE INT. Ø	
					mm (in.)	J	ft.lb	mm	in.	mm (in.)	mm (in.)	kg	lb	in.	mm	in.

Standard

A	CP4444-RURAB	T022961	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.0	2.2	1/4	10	3/8
A	CP4444-RUSAB	T022962	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.1	2.3	1/4	10	3/8
A	CP4444-RUTAB	T022963	4X (240)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.3	2.7	1/4	10	3/8
B	CP4447-RUSAB	T022965	5XB 500	1560	19.1 x 68.3 (3/4 x 2-11/16)	12.3	9.1	12.7	0.498	6.4 (1/4)	4.8 (3/16)	2.2	4.7	1/4	10	3/8
B	CP4447-RUTAB	T022912	7XB (700)	1140	19.1 x 98.4 (3/4 x 3-7/8)	17.8	13.1	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.3	5.1	1/4	10	3/8
B	CP4447-RUVAB	T022964	9XB (800)	900	19.1 x 147.6 (3/4 x 5-13/16)	26.6	19.6	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.7	9.0	1/4	10	3/8

Vibration reduced

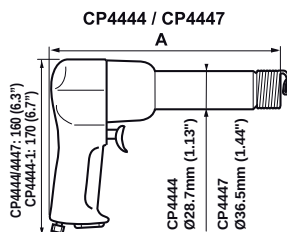
C	CP4450-2	T025189	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.7	1/4	10	3/8
C	CP4450-3	T025190	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.3	2.8	1/4	10	3/8
C	CP4450-4	T025191	4X (400)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.5	3.2	1/4	10	3/8
D	CP4475-3	T025241	5XB (500)	2000	19.1 x 76.2 (3/4 x 3)	13.7	10.1	12.7	0.498	6.4 (1/4)	4.8 (3/16)	1.8	3.9	1/4	10	3/8
D	CP4475-4	T025242	7XB (700)	1700	19.1 x 101.6 (3/4 x 4)	18.3	13.5	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.4	5.3	1/4	10	3/8
D	CP4475-6	T025243	9XB (800)	1250	19.1 x 152.4 (3/4 x 6)	27.5	20.3	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.8	6.2	1/4	10	3/8
E	CP4450-S-2	205 146 712 4	2X	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.25	2.8	1/4	10	3/8
E	CP4450-S-3	205 146 713 4	3X	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.35	3.0	1/4	10	3/8
E	CP4450-S-4	205 146 714 4	4X	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.45	3.2	1/4	10	3/8

* LIGHT: Aluminium 2017 / 2117 (DCJ-DXJ / D-AD)

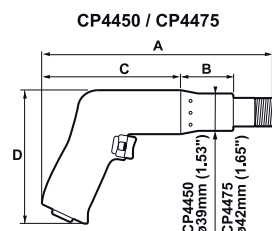
** HARD: Aluminium 7050 (DKJ / KE / E) (M) (T)

Dimensions

Model	A	
	mm	in.
CP4444-RURAB	170	6.7
CP4444-RUSAB	186	7.3
CP4444-RUTAB	211	8.3
CP4447-RUSAB	227	8.9
CP4447-RUTAB	252	9.9
CP4447-RUVAB	303	11.9



Model	A		B		C		D	
	mm	in.	mm	in.	mm	in.	mm	in.
CP4450-2	213	8.4	32	1.26	102	4.0	138	5.4
CP4450-3	226	8.9	32	1.26	102	4.0	138	5.4
CP4450-4	251	9.9	60	2.36	102	4.0	138	5.4
CP4475-3	275	10.8	54	2.13	180	7.1	140	5.5
CP4475-4	300	11.8	79	3.11	180	7.1	140	5.5
CP4475-6	351	13.8	130	5.12	180	7.1	140	5.5



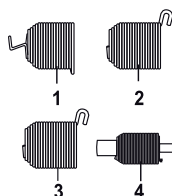
CP4444 / CP4447 / CP4450 / CP4475

ACCESSORIES INCLUDED

	PART NUMBER		
	CP4444-1	CP4444 CP4450	CP4447 CP4475
• Light wire quick change retainer	205 053 564 3	A046095	-
• Wire quick change retainer	-	-	A047095

OPTIONAL ACCESSORIES

ITEM	CP4444 CP4450	CP4447 CP4475
1 Zip-Quick retainer	A046094	-
2 Beehive retainer	A046096	A047096
3 Beehive retainer	-	A046096
4 Nail driving attachment for 20-60 penny nail size (for CP4447-RUSAB & CP4475)	-	P042448



CP4444 / CP4450

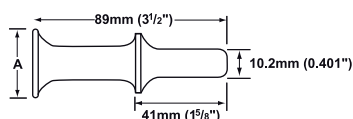
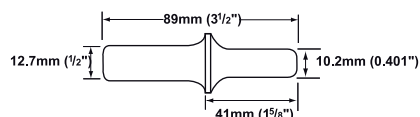
TYPE I RIVET SETS Ø 10.2MM (.401")

RIVET HEAD CUPPING	2.4MM (3/32")	3.2MM (1/8")	4.0MM (5/32")	4.8MM (3/16")	6.4MM (1/4")
• Universal	P089221	P089222	P089223	P089224	P089225*
• Soft Blank Set	P071108	-	-	-	-
• Hardened Blank Set	P080178	-	-	-	-

* Must use Light Wire Quick-Change Retainer, A046095 with these sets

TYPE I FLUSH RIVET SETS Ø 10.2MM (.401")

	ØA MM (IN.)	CP4444/4450 Ø10.2 (0.401") SHANK
•	25.4 (1)	A046090
•	31.8 (1-1/4)	A089232
•	38.1 (1-1/2)	A089233
•	44.5 (1-3/4)	A046091



CP4447 / CP4475

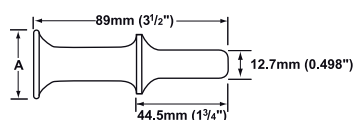
TYPE D RIVET SETS Ø 12.7MM (.498")

RIVET HEAD CUPPING	4.8MM (3/16")	6.4MM (1/4")	6.4MM (1/4")
• Universal	P089252	P089253	P089254*
• Soft blank set	P070995	-	-
• Hardened blank set	P080198	-	-

* Must use Light Wire Quick-Change Retainer, A047095

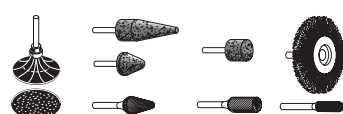
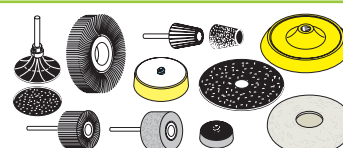
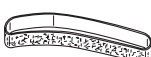
TYPE I FLUSH RIVET SETS Ø 12.7MM (.498")

	ØA MM (IN.)	SHANK Ø12.7MM (0.498")
•	31.8 (1-1/4)	A047091

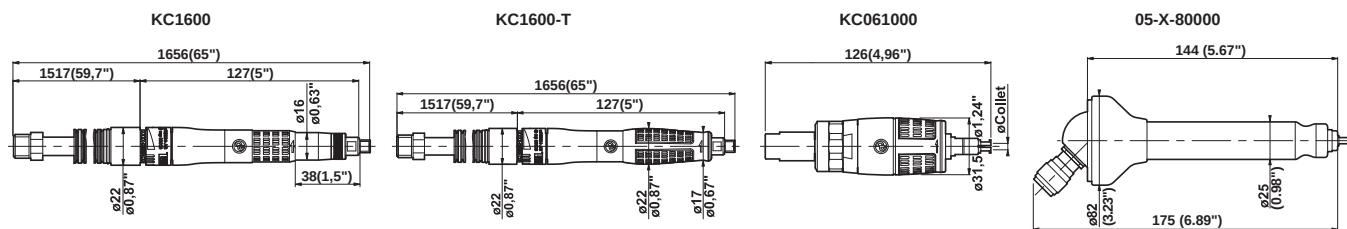




Removal Tools - Selection Guide

TOOL TYPE	ACCESSORIES	PAGE
GRINDERS: for carbide burrs, mounted points & sanding discs 		234-241
ROUTERS: 		242
COLLET GRINDER ACCESSORIES:		243
GRINDERS: for cone wheels, type 1 wheels, depressed center wheels, cut-off wheels, diamond discs, flap wheels 		244-259
SANDERS: for expandable wheels, flap wheels, brushes, abrasive discs 		260-269
DUST EXTRACTION SYSTEMS: for straight and angle grinders for angle and vertical sanders 		270-277
RANDOM ORBITAL SANDERS AND POLISHERS: for abrasive discs and polishing accessories ORBITAL SANDERS: for abrasive sheets 		278-289
BELT SANDERS: 		290-291

Accessories



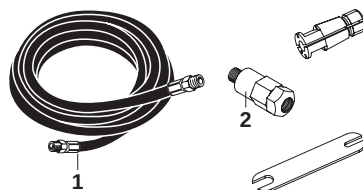
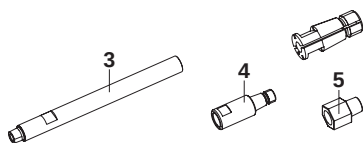
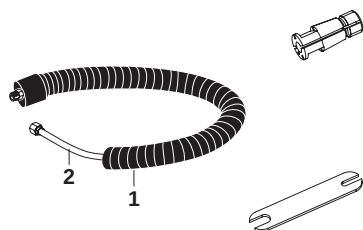
KC1600-T / KC1600

ACCESSORIES INCLUDED

ITEM	PART NO.
• Collet ϕ 3 mm	205 047 961 3
1 Exhaust kit - L = 1m (39.4")	615 396 405 0
2 Mounted inlet hose 1/4" BSP - ϕ 6mm (1/4") - L = 1.5m (59")	615 875 119 0
• Spanner (Qty 2)	205 047 965 3
• Carrying case (for T version only)	P137979

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Collet ϕ 2.38 mm (3/32")	205 048 059 3
3 Machine extension - L = 150mm (5.9")	615 595 330 0
4 Collet extension - L = 20mm (0.79")	615 595 329 0
5 Adaptor 1/4" BSP - 1/4" NPT female	181523



KC061000 / 05-X-80000

ACCESSORIES INCLUDED

ITEM	KC061000	05-X-80000
• Collet ϕ 3 mm	205 047 961 3	9812
1 Complete inlet hose 1/8"M - 1/4"M, ϕ 5mm (3/16") L = 2.40m (94.5")	P043886	
2 Filter 1/4" F-1/4"M. NPT	P056381	
• Spanner (Qty 2)	205 047 965 3	

OPTIONAL ACCESSORIES

	KC061000	05-X-80000
• Collet ϕ 2.38mm (3/32")	205 048 059 3	9792
1 Complete inlet hose 1/4"M - 1/8"M-BSP, ϕ 5mm (3/16") L = 3m (118")		75922



Grinders for carbide burrs and mounted points

44 to 100 Watts (0.06 to 0.13 hp) - 60000 to 100000 rpm



A



B



C

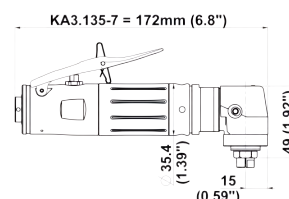
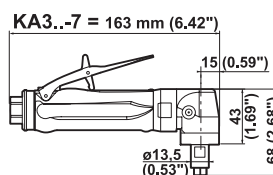
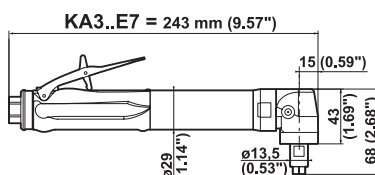
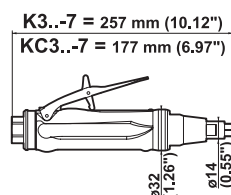


D

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION		AIR INLET. THREAD	HOSE INT. Ø	
				mm	in.	W	hp	kg	lb.	l/s	cfm		in.	mm
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.
Pencil die grinders														
A	KC1600-T	615 170 313 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4
B	KC1600	615 170 315 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4
Turbine grinders														
C	KC061000	205 146 638 4	100000	3.00		44	0.06	0.24	0.53	8.5	18.0	1/4	5	3/16
D	05-X-80000	258984	80000	3.17	1/8	75	0.1	0.30	0.66	2.8	5.9	1/8	5	3/16

Accessories



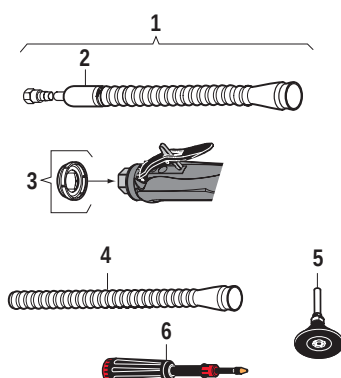
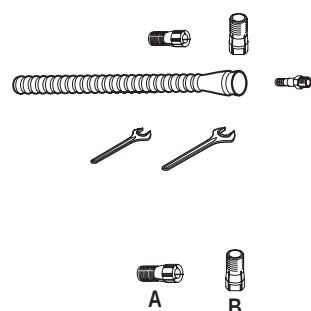
K3..-7 / KC3..-7 / KA3..E7 / KA3..-7 / KA3.135-7

ACCESSORIES INCLUDED

	K3.. / KC3.. / KA3..	KA3.135
• CNOMO collet $\varnothing$ 6 mm	615 526 046 0	615 526 079 0
• Exhaust hose L = 0.8m (31")	615 875 106 0	
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0	
• 1/4" air hose nipple for 6mm (1/4") ID hose		615 705 009 0
• Flat wrench, 10mm (25/64")	615 801 002 0	615 801 002 0
• Flat wrench, 11mm (7/16")	615 801 003 0	
• Flat wrench, 14mm		615 801 005 0

OPTIONAL ACCESSORIES

ITEM	A	B
	K3.. / KC3.. / KA3..	KA3.135
• Collet $\varnothing$ 2 mm		615 526 066 0
• CNOMO collet $\varnothing$ 2.5 mm	615 526 089 0	615 526 068 0
• CNOMO collet $\varnothing$ 3 mm	615 526 044 0	615 526 069 0
• CNOMO collet $\varnothing$ 3.2 mm (1/8")	615 526 045 0	
• Collet $\varnothing$ 3.5mm		615 526 070 0
• CNOMO collet $\varnothing$ 4 mm (5/32")	615 526 090 0	615 526 071 0
• CNOMO collet $\varnothing$ 4.5 mm		615 526 073 0
• CNOMO collet $\varnothing$ 5 mm	615 526 092 0	615 526 075 0
• Collet $\varnothing$ 5.5mm		615 526 077 0
• CNOMO collet $\varnothing$ 6.4 mm (1/4")	615 526 047 0	
• Collet $\varnothing$ 6.5mm		615 526 081 0
• Collet $\varnothing$ 7mm		615 526 083 0
• Collet $\varnothing$ 7.5mm		615 526 084 0
• Collet $\varnothing$ 8mm (5/16")		615 526 088 0
1 Complete silencer kit	615 396 101 0	615 399 423 0
2 Silencer	615 574 028 0	
3 Clippable silencer	615 396 124 0	
4 Exhaust hose L = 0.8m (31")		615 875 106 0
5 Backing pad $\varnothing$ 50mm		615 804 098 0
6 Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0	
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0	



Grinders for carbide burrs, mounted points and sanding discs

300 and 375 Watts (0.4 and 0.5 hp) - 12000 to 40000 rpm

Supplied with CNOMO collet, Ø 6mm



A



B



C



D



E

K3...7 / KC3...7 / KA3...E7 / KA3...-7

KA3.135-7

CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers. PIC

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD	HOSE INT. Ø	
										AT FREE SPEED		AT MAX OUTPUT				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.

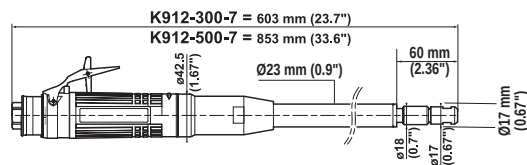
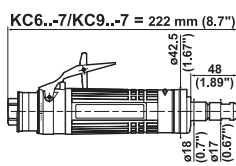
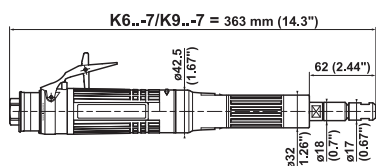
STRAIGHT GRINDERS

A	K340-7	615 170 036 0	40000	6.4	1/4	375	0.5	0.58	1.28	7.5	16.0	10.0	21	1/4	8	5/16
A	K331-7	615 170 035 0	31000	6.4	1/4	375	0.5	0.58	1.28	4.5	9.5	9.5	20	1/4	8	5/16
A	K325-7	615 170 034 0	25000	6.4	1/4	375	0.5	0.58	1.28	3.5	7.5	9.5	20	1/4	8	5/16
A	K320-7	615 170 033 0	20000	6.4	1/4	375	0.5	0.58	1.28	2.5	5.0	8.0	17	1/4	8	5/16
B	KC340-7	615 170 032 0	40000	6.4	1/4	375	0.5	0.40	0.88	7.5	16.0	10.0	21	1/4	8	5/16
B	KC331-7	615 170 031 0	31000	6.4	1/4	375	0.5	0.40	0.88	4.5	9.5	9.5	20	1/4	8	5/16
B	KC325-7	615 170 030 0	25000	6.4	1/4	375	0.5	0.40	0.88	3.5	7.5	9.5	20	1/4	8	5/16
B	KC320-7	615 170 029 0	20000	6.4	1/4	375	0.5	0.40	0.88	2.5	5.0	8.0	17	1/4	8	5/16

ANGLE GRINDERS

C	KA320E7	615 170 047 0	20000	6.4	1/4	375	0.5	0.60	1.32	6.5	13.5	10.0	21	1/4	8	5/16
C	KA312E7	615 170 039 0	12000	6.4	1/4	375	0.5	0.60	1.32	3.0	6.5	9.0	19	1/4	8	5/16
D	KA320-7	615 170 043 0	20000	6.4	1/4	375	0.5	0.50	1.10	6.5	13.5	10.0	21	1/4	8	5/16
D	KA312-7	615 170 037 0	12000	6.4	1/4	375	0.5	0.50	1.10	3.0	6.5	9.0	19	1/4	8	5/16
E	KA3.135-7	615 170 522 0	13500	8.0	5/16	300	0.4	0.60	1.32	9.5	20.0	-	-	1/4	6	1/4

Accessories



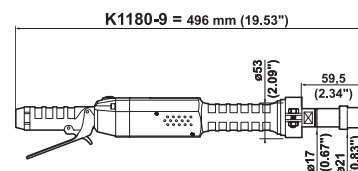
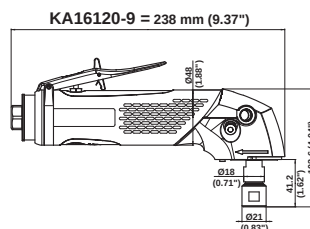
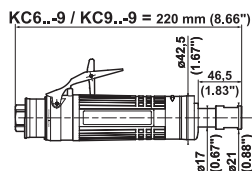
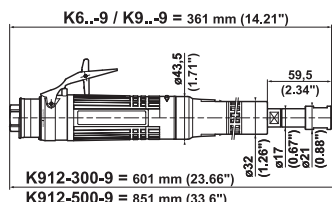
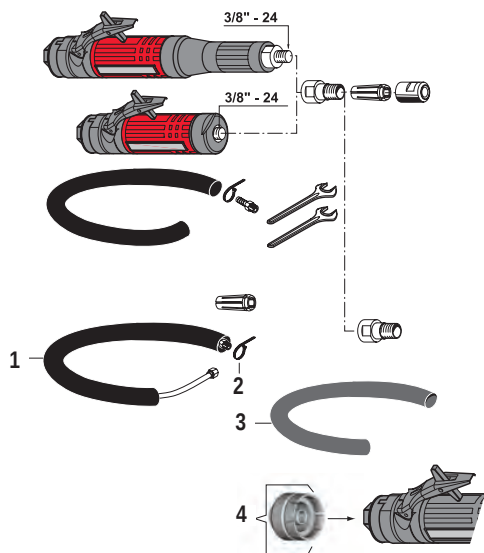
K6..-7 / K9..-7 / KC6..-7 / KC9..-7

ACCESSORIES INCLUDED

	PART NO.
• Collet-holder	615 523 018 0
• CNOMO collet $\varnothing$ 6mm	615 526 049 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm (Qty 2)	615 801 005 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Collet-holder extension L = 28mm (1.1")	615 523 019 0
• CNOMO collet $\varnothing$ 3 mm	615 526 048 0
• CNOMO collet $\varnothing$ 6.35 mm (1/4")	615 526 050 0
• CNOMO collet $\varnothing$ 8 mm	615 526 051 0
1 Complete silencer kit	615 396 166 0
2 Clamp	615 873 115 0
3 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
4 Clippable silencer	615 396 655 0



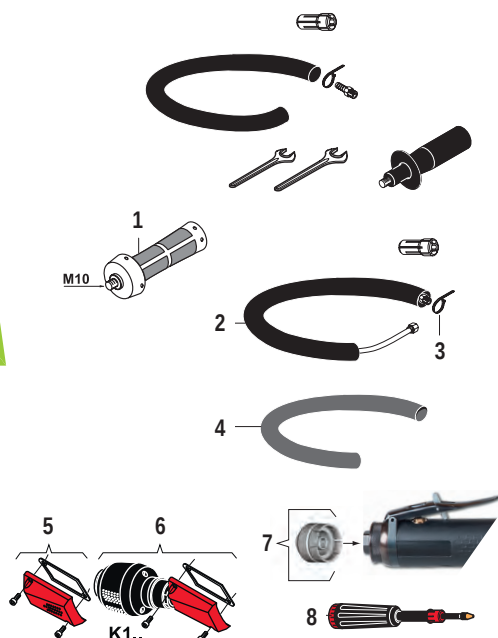
K6..-9 / K9..-9 / KC6..-9 / KC9..-9 / KA16120-9 / K1180-9

ACCESSORIES INCLUDED

	K/KC6 / K/KC9 KA16120-9	K1180-9
• Series 200 resilient collet, collet $\varnothing$ 5.55 to 6.35mm (1/4")	615 526 063 0	615 526 063 0
• Series 200 resilient collet, collet $\varnothing$ 8.7 to 9.5mm (3/8")		615 526 065 0
• Exhaust hose L = 1.5m (60")	615 875 113 0	
• Clamp	615 873 415 0	
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0	
• 3/8" air hose nipple for 13mm (1/2") ID hose for KA16120-9	615 704 027 0	
• 1/2" air hose nipple for 16mm (5/8") ID hose		615 704 014 0
• Flat wrench, 14mm	615 801 005 0	615 801 005 0
• Flat wrench, 19mm (3/4")	615 801 076 0	615 801 076 0
• Side handle for KA16120-9	615 576 038 0	

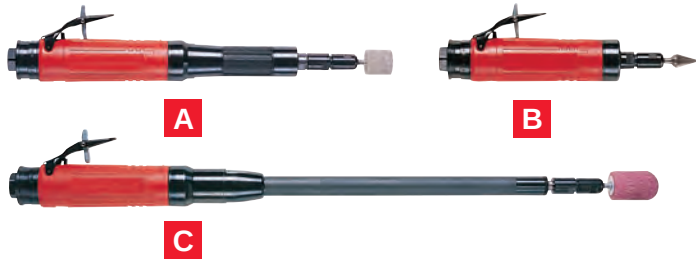
OPTIONAL ACCESSORIES

ITEM	K/KC6 / K/KC9 KA16120-9	K1180-9
• Series 200 resilient collet, collet $\varnothing$ 2.4 to 3.2mm (1/8")	615 526 061 0	615 526 061 0
• Series 200 resilient collet, collet $\varnothing$ 5.2 to 6mm	615 526 062 0	615 526 062 0
• Series 200 resilient collet, collet $\varnothing$ 7.2 to 8mm	615 526 064 0	615 526 064 0
• Series 200 resilient collet, collet $\varnothing$ 8.7 to 9.5mm (3/8")	615 526 065 0	
1 Vibration-damping handle for KA16120-9	615 576 066 0	
2 Complete silencer kit	615 396 166 0	
3 Clamp	615 873 115 0	
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0	
5 Silencer kit		615 399 298 0
6 Silencer kit		615 399 459 0
7 Clippable silencer	615 396 655 0	
7 Clippable silencer for KA16120-9	615 396 957 0	
8 Grease gun (capacity 24g - 0.8oz) for KA16120-9	615 990 149 0	
• Grease for bevel gear (1kg - 2.2lb) for KA16120-9	615 990 148 0	



Grinders for carbide burrs and mounted points

600 to 1700 Watts (0.8 to 2.3 hp) - 12000 to 28000 rpm



Supplied with CNOMO collet, Ø 6mm

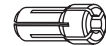
K6..-7 / K9..-7 / KC6..-7 / KC9..-7
CNOMO type collet



Supplied with series 200 resilient collet, Ø 5.55 to 6.35mm (1/4") & Ø 8.7 to 9.5mm (3/8")



K6..-9 / KC9..-9 / KC6..-9 /
KC9..-9 / KA1620-9 / K1180-9
Series 200 collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD	HOSE INT. Ø	
				mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm		mm	in.

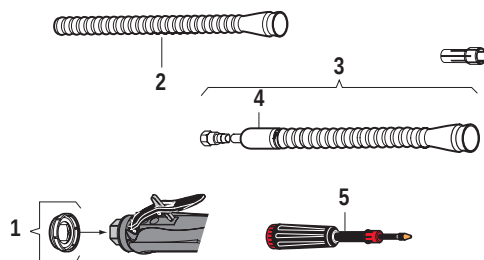
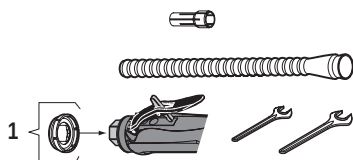
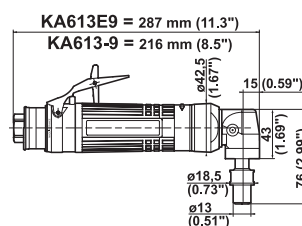
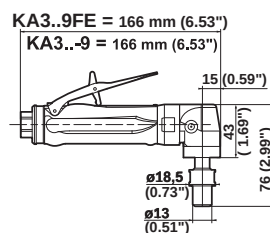
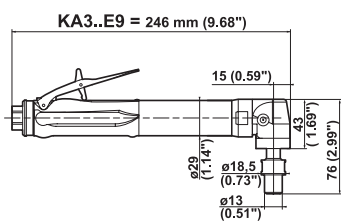
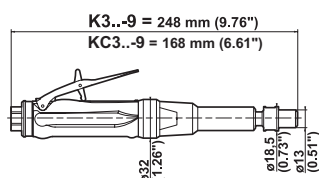
CNOMO collet

A	K628-7	615 170 107 0	28000	8	5/16	600	0.80	1.3	2.9	16	34	15	32	3/8	10	3/8
A	K624-7	615 170 106 0	24000	8	5/16	600	0.80	1.3	2.9	10	21	15	32	3/8	10	3/8
A	K922-7	615 170 119 0	22000	8	5/16	900	1.21	1.4	3.1	13	28	18	38	3/8	10	3/8
A	K619-7	615 170 105 0	19000	8	5/16	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
A	K918-7	615 170 117 0	18000	8	5/16	900	1.21	1.4	3.1	10	21	18	38	3/8	10	3/8
A	K615-7	615 170 104 0	15000	8	5/16	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
A	K915-7	615 170 114 0	15000	8	5/16	900	1.21	1.4	3.1	8	17	17	36	3/8	10	3/8
A	K912-7	615 170 110 0	12000	8	5/16	900	1.21	1.4	3.1	6	13	16	34	3/8	10	3/8
B	KC628-7	615 170 126 0	28000	8	5/16	600	0.80	0.9	2.0	16	34	15	32	3/8	10	3/8
B	KC624-7	615 170 125 0	24000	8	5/16	600	0.80	0.9	2.0	10	21	15	32	3/8	10	3/8
B	KC922-7	615 170 130 0	22000	8	5/16	900	1.21	1.0	2.2	13	28	18	38	3/8	10	3/8
B	KC619-7	615 170 124 0	19000	8	5/16	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
B	KC918-7	615 170 129 0	18000	8	5/16	900	1.21	1.0	2.2	10	21	18	38	3/8	10	3/8
B	KC615-7	615 170 123 0	15000	8	5/16	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
B	KC915-7	615 170 128 0	15000	8	5/16	900	1.21	1.0	2.2	8	17	17	36	3/8	10	3/8
B	KC912-7	615 170 127 0	12000	8	5/16	900	1.21	1.0	2.2	6	13	16	34	3/8	10	3/8
C	K912-300-7	615 170 108 0	12000	8	5/16	900	1.21	2.1	4.6	6	13	16	34	3/8	10	3/8
C	K912-500-7	615 170 109 0	12000	8	5/16	900	1.21	2.7	5.9	6	13	16	34	3/8	10	3/8

SERIES 200 collet

D	K628-9	615 170 150 0	28000	9.5	3/8	600	0.80	1.3	2.9	16	34	15	32	3/8	10	3/8
D	K624-9	615 170 151 0	24000	9.5	3/8	600	0.80	1.3	2.9	10	21	15	32	3/8	10	3/8
D	K922-9	615 170 152 0	22000	9.5	3/8	900	1.21	1.4	3.1	13	28	18	38	3/8	10	3/8
D	K619-9	615 170 153 0	19000	9.5	3/8	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
D	K918-9	615 170 154 0	18000	9.5	3/8	900	1.21	1.4	3.1	10	21	18	38	3/8	10	3/8
D	K615-9	615 170 155 0	15000	9.5	3/8	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
D	K915-9	615 170 156 0	15000	9.5	3/8	900	1.21	1.4	3.1	8	17	17	36	3/8	10	3/8
D	K912-9	615 170 157 0	12000	9.5	3/8	900	1.21	1.4	3.1	6	13	16	34	3/8	10	3/8
E	KC628-9	615 170 158 0	28000	9.5	3/8	600	0.80	0.9	2.0	16	34	15	32	3/8	10	3/8
E	KC624-9	615 170 159 0	24000	9.5	3/8	600	0.80	0.9	2.0	10	21	15	32	3/8	10	3/8
E	KC922-9	615 170 160 0	22000	9.5	3/8	900	1.21	1.0	2.2	13	28	18	38	3/8	10	3/8
E	KC619-9	615 170 161 0	19000	9.5	3/8	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
E	KC918-9	615 170 162 0	18000	9.5	3/8	900	1.21	1.0	2.2	10	21	18	38	3/8	10	3/8
E	KC615-9	615 170 163 0	15000	9.5	3/8	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
E	KC915-9	615 170 164 0	15000	9.5	3/8	900	1.21	1.0	2.2	8	17	17	36	3/8	10	3/8
E	KC912-9	615 170 165 0	12000	9.5	3/8	900	1.21	1.0	2.2	6	13	16	34	3/8	10	3/8
F	K912-300-9	615 170 169 0	12000	9.5	3/8	900	1.21	2.1	4.6	6	13	16	34	3/8	10	3/8
F	K912-500-9	615 170 170 0	12000	9.5	3/8	900	1.21	2.7	5.9	6	13	16	34	3/8	10	3/8
G	KA16120-9	615 170 443 0	12000	9.5	3/8	1700	2.30	1.4	3.2	20	42	32	68	3/8	13	1/2
H	K1180-9	615 170 246 0	18000	9.5	3/8	1200	1.61	2.5	5.9	12	25	35	74	1/2	15	5/8

Accessories



4734 / K3..-9 / KC3..-9 / KA3..E9 / KA3..-9 / KA3..-9FE

ACCESSORIES INCLUDED

ITEM	4734	K3../KC3..-9 KA3..E9/KA3..-9	KA3..-9FE
• Series 300 resilient collet, $\varnothing$ 2.4 to 3.2 mm	615 526 055 0	615 526 059 0	615 526 059 0
• Exhaust hose L = 0.8m (31")	222453	615 875 106 0	
• Clamp	235203		
• 1/4" air hose nipple for 8mm (5/16") ID hose		615 704 019 0	615 704 019 0
1 Clippable silencer			615 396 124 0
• Flat wrench, 11mm (7/16")	199003	615 801 003 0	615 801 003 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
• Flat wrench, 16mm (5/8" A/F)	18583		

OPTIONAL ACCESSORIES

ITEM	4734	K3../KC3..-9 KA3..E9/KA3..-9	KA3..-9FE
• Series 300 resilient collet, $\varnothing$ 0.4 to 1.2mm	615 526 052 0	615 526 052 0	615 526 052 0
• Series 300 resilient collet, $\varnothing$ 1.2 to 2mm	615 526 053 0	615 526 053 0	615 526 053 0
• Series 300 resilient collet, $\varnothing$ 1.7 to 2.5mm	615 526 054 0	615 526 054 0	615 526 054 0
• Series 300 resilient collet, $\varnothing$ 2.4 to 3.2mm (1/8")	615 526 055 0	615 526 055 0	615 526 055 0
• Series 300 resilient collet, $\varnothing$ 3.16 to 3.96mm	615 526 056 0	615 526 056 0	615 526 056 0
• Series 300 resilient collet, $\varnothing$ 3.95 to 4.75mm	615 526 057 0	615 526 057 0	615 526 057 0
• Series 300 resilient collet, $\varnothing$ 4.75 to 5.55mm	615 526 058 0	615 526 058 0	615 526 058 0
2 Exhaust hose L = 0.8 m (31")			615 875 106 0
3 Complete silencer kit		615 396 101 0	615 396 101 0
4 Silencer		615 574 028 0	615 574 028 0
1 Clippable silencer		615 396 124 0	
5 Grease gun (capacity 24g - 0.8 oz.)		615 990 149 0	615 990 149 0
• Grease for bevel gear (1kg -2.2 lb.)		615 990 148 0	615 990 148 0

KA613E9 / KA613-9

ACCESSORIES INCLUDED

	PART NO.
• Series 300 resilient collet, $\varnothing$ 5.55 to 6.35mm (1/4")	615 526 059 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 11mm (7/16")	615 801 003 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0
• Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Series 300 resilient collet, $\varnothing$ 0.4 to 1.2 mm (3/64")	615 526 052 0
• Series 300 resilient collet, $\varnothing$ 1.2 to 2 mm (5/64")	615 526 053 0
• Series 300 resilient collet, $\varnothing$ 1.7 to 2.5 mm (3/32")	615 526 054 0
• Series 300 resilient collet, $\varnothing$ 2.4 to 3.2 mm (1/8")	615 526 055 0
• Series 300 resilient collet, $\varnothing$ 3.16 to 3.96 mm (5/32")	615 526 056 0
• Series 300 resilient collet, $\varnothing$ 3.95 to 4.75 mm (3/16")	615 526 057 0
• Series 300 resilient collet, $\varnothing$ 4.75 to 5.55 mm (7/32")	615 526 058 0
1 Complete silencer kit	615 396 166 0
2 Clamp	615 873 115 0
3 Clippable silencer	615 396 655 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
• Grease for bevel gear (1 kg - 2.2 lb.)	615 990 148 0



Grinders for carbide burrs, mounted points and sanding discs

300 to 600 Watts (0.4 to 0.8 hp) - 9000 to 40000 rpm

Supplied with series 300 resilient collet, ø 5.55 to 6.35mm (1/4")



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT Ø	
										AT FREE SPEED		AT MAX OUTPUT				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.

STRAIGHT GRINDERS

A	4734	4734	20000	6.35	1/4	300	0.4	0.60	1.32	8.5	18	10	21	1/4	10	3/8
B	K340-9	615 170 139 0	40000	6.35	1/4	375	0.5	0.57	1.26	7.5	16	10	21	1/4	8	5/16
B	K331-9	615 170 140 0	31000	6.35	1/4	375	0.5	0.57	1.26	4.5	9.5	9.5	20	1/4	8	5/16
B	K325-9	615 170 141 0	25000	6.35	1/4	375	0.5	0.57	1.26	3.5	7.5	9.5	20	1/4	8	5/16
B	K320-9	615 170 142 0	20000	6.35	1/4	375	0.5	0.57	1.26	2.5	5.0	8.0	17	1/4	8	5/16
C	KC340-9	615 170 143 0	40000	6.35	1/4	375	0.5	0.38	0.84	7.5	16	10	21	1/4	8	5/16
C	KC331-9	615 170 144 0	31000	6.35	1/4	375	0.5	0.38	0.84	4.5	9.5	9.5	20	1/4	8	5/16
C	KC325-9	615 170 145 0	25000	6.35	1/4	375	0.5	0.38	0.84	3.5	7.5	9.5	20	1/4	8	5/16
C	KC320-9	615 170 027 0	20000	6.35	1/4	375	0.5	0.38	0.84	2.5	5.0	8.0	17	1/4	8	5/16
C	KC318-9	615 170 196 0	18000	6.35	1/4	375	0.5	0.38	0.84	2.5	5.0	8.0	17	1/4	8	5/16

ANGLE GRINDERS

D	KA320E9	615 170 146 0	20000	6.35	1/4	375	0.5	0.61	1.35	6.5	13.5	10	21	1/4	8	5/16
D	KA312E9	615 170 147 0	12000	6.35	1/4	375	0.5	0.61	1.35	3.0	6.5	9.0	9	1/4	8	5/16
E	KA320-9	615 170 148 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
E	KA318-9	615 170 461 0	18000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
E	KA312-9	615 170 149 0	12000	6.35	1/4	375	0.5	0.51	1.13	3.0	6.5	9.0	19	1/4	8	5/16
E	KA309-9	615 170 266 0	9000	6.35	1/4	375	0.5	0.50	1.10	3.0	6.5	9.0	19	1/4	8	5/16
F	KA320-9FE*	615 170 206 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16
F	KA312-9FE*	615 170 205 0	12000	6.35	1/4	375	0.5	0.51	1.13	3.0	6.5	9.0	19	1/4	8	5/16
G	KA613E9	615 170 136 0	13000	6.35	1/4	600	0.8	1.40	3.10	10	21	15	32	3/8	10	3/8
H	KA613-9	615 170 135 0	13000	6.35	1/4	600	0.8	1.10	2.40	10	21	15	32	3/8	10	3/8

* Front Exhaust models

Routers

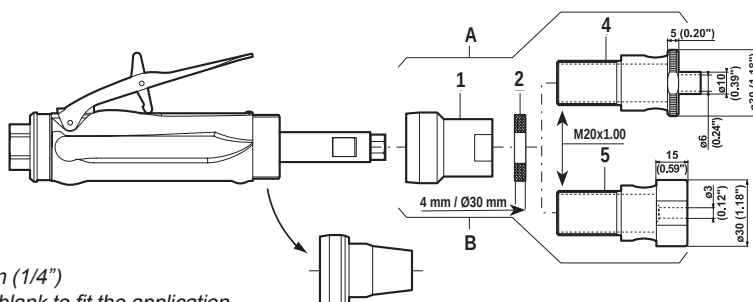
375 to 900 Watts (0.5 to 1.21 hp) - 12000 to 40000 rpm

375 W (0.5hp) - 20000 to 40000 rpm
CNOMO type collet



A

615 396 069 0: Machined routing kit for burr, max ø 6.4mm (1/4")
615 396 070 0: Blank routing kit allowing you to adapt the blank to fit the application

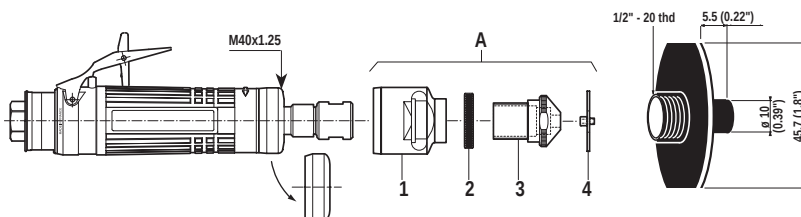


600 - 900 W (0.8 - 1.21hp) - 12000 to 28000 rpm
CNOMO type or Series 200 collet



B

615 396 289 0: Machined routing kit for burr, max ø 6.4mm (1/4")



OPTIONAL ACCESSORIES

ITEM	KC3..	KC6.. / KC9..
A Machined routing kit	615 396 069 0	615 396 289 0
B Blank routing kit (item 1, 2, 5)	615 396 070 0	
1 Flange	615 595 231 0	615 595 245 0
2 Adjusting nut	615 607 140 0	615 607 145 0
• Circlip		615 687 056 0
• Bearing		615 758 127 0
3 Router nose		615 542 132 2
4 Machined routing guide	615 542 125 0	615 542 131 0
5 Blank routing guide	615 542 125 2	

If you need a complete tool use the KC624-9RT (24000 rpm) Part No. 615 170 290 0

If you need a specific speed or a higher power:

Select the motor, the speed of your choice below then add the routing kit.

For example: Tool with Series 200 collet - 900 W - 22000 rpm (KC922-9) + routing kit Order 615 170 160 0 + 615 396 289 0

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	FREE SPEED	POWER		PART NO.		ROUTING KIT	
			W	hp	CNOMO COLLET (-7)	SERIES 200 COLLET (-9)	MACHINED	BLANK
		rpm						

375 W (0.5 hp) - CNOMO type collet

A	KC340-7	40000	375	0.5	615 170 032 0	+
A	KC331-7	31000	375	0.5	615 170 031 0	+
A	KC325-7	25000	375	0.5	615 170 030 0	+
A	KC320-7	20000	375	0.5	615 170 029 0	+

615 396 069 0



615 396 070 0



600 - 900 W (0.8 - 1.21 hp) - CNOMO type or Series 200 collet

B	KC628-	28000	600	0.80	615 170 126 0	615 170 158 0	+
B	KC624-	24000	600	0.80	615 170 125 0	615 170 159 0	+
B	KC922-	22000	900	1.21	615 170 130 0	615 170 160 0	+
B	KC619-	19000	600	0.80	615 170 124 0	615 170 161 0	+
B	KC918-	18000	900	1.21	615 170 129 0	615 170 162 0	+
B	KC615-	15000	600	0.80	615 170 123 0	615 170 163 0	+
B	KC915-	15000	900	1.21	615 170 128 0	615 170 164 0	+
B	KC912-	12000	900	1.21	615 170 127 0	615 170 165 0	+

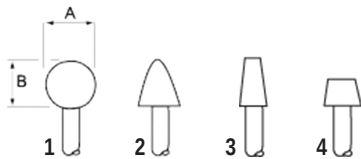
615 396 289 0



Collet Grinder Accessories



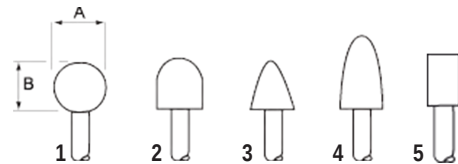
Aluminium Oxide Mounted Points are available in red grades. Red grades are suitable for grinding high tensile materials such as ordinary and alloy steels, high speed steel and annealed malleable iron.



MOUNTED POINTS 3mm Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/8")

PIC REF	MAX SPEED	A		B		PART NO.
		mm	in.	mm	in.	
1	104000	5	0.19	5	0.19	38582
2	104000	5	0.19	8	0.31	38522
3	105000	4	0.16	4	0.16	38562
4	81000	6	0.25	6	0.25	38542



MOUNTED POINTS 6mm Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/4")

PIC REF	MAX SPEED	A		B		PART NO.
		mm	in.	mm	in.	
1	59000	16	0.62	16	0.62	435983
2	50000	20	0.79	16	0.62	435993
3	45000	20	0.79	28	1.10	436003
4	48000	20	0.79	32	1.26	436013
5	38000	25	1.00	3	0.11	

Recommended Speeds For Tungsten Carbide Burrs - rpm x 1000

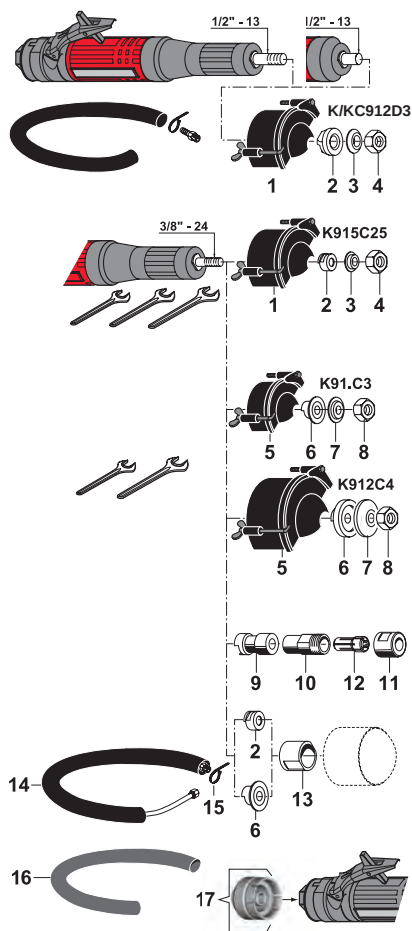
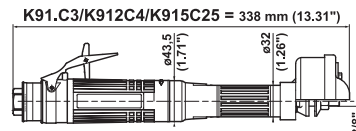
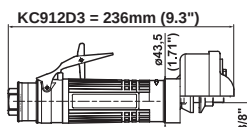
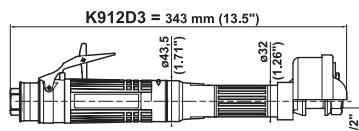
MATERIAL	HEAD DIAMETER				
	3mm (1/8")	6mm (1/4")	10mm (3/8")	13mm (1/2")	16mm (5/8")
Alum, Zinc Base, Plastics	30-90	15-70	10-50	17-38	6-30
Cast Iron, Brass, Copper, Bronze	45-90	23-60	15-40	11-30	9-24
Mild Steel	60-90	45-60	30-40	22-30	18-24
Titanium, Stainless, Hardened Steels, Ceramics	60-90	30-45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

Abrasive Discs Ø 50mm

SPEED	GRIT	PART NO.
rpm		
25000	P40	615 804 099 0
25000	P60	615 804 100 0
25000	P80	615 804 101 0
25000	P120	615 804 102 0



Accessories



K9..

ACCESSORIES INCLUDED

ITEM	K/KC912D3 Ø 80mm (3")	K915C25 Ø 63mm (2 1/2")
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
• Clamp	615 873 415 0	615 873 415 0
• 3/8" air hose nipple for 10mm ID hose	615 704 017 0	615 704 017 0
1 Wheel guard for K912D3	615 504 151 0	615 504 150 0
1 Wheel guard for KC912D3	615 504 214 0	
2 Rear flange	615 503 127 0	615 503 126 0
3 Front flange	615 502 044 0	615 502 043 0
4 Locknut	615 608 045 0	615 608 044 0
• Flat wrench 17mm (1-1/16")		615 801 032 0
• Flat wrench 14.3mm (9/16")		615 801 074 0
• Flat wrench 19mm (3/4")	615 801 076 0	

ITEM	K91.C3 Ø 80mm (3")	K912C4 Ø 100mm (4")
5 Wheel guard	615 504 151 0	615 504 152 0
6 Rear flange	615 503 125 0	615 503 131 0
7 Front flange	615 502 013 0	615 502 063 0
8 Locknut	615 608 044 0	615 608 044 0
• Flat wrench. 14.3mm (9/16")	615 801 074 0	615 801 074 0
• Flat wrench. 19mm (3/4")	615 801 076 0	615 801 076 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
9 Spacer for collet-holder	615 666 149 0
10 Series 200 collet-holder	615 523 023 0
11 Series 200 collet nut	615 607 144 0
12 Series 200 Erickson collet	(see page 214)
13 Spacer for threaded cone wheel 3/8"	615 503 516 0
• Rear flange supplied with tool 615 503 125 0 or 615 503 126 0	
14 Complete silencer kit	615 396 166 0
15 Clamp	615 873 115 0
16 Reinforced cloth-lined exhaust hose L = 0.75 m (30")	615 875 116 0
17 Clippable silencer	615 396 655 0



Grinders for cone wheels and type 1 wheels

ø 63mm (2-1/2") - ø 80mm (3") - ø 100mm (4")

900 Watts (1.21 hp) - 12000 to 18000 rpm



A



B



C

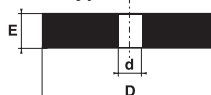


D

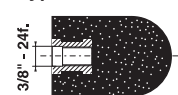


E

Type 1 wheel



Wheel type 16 - 18 - 18R and 19



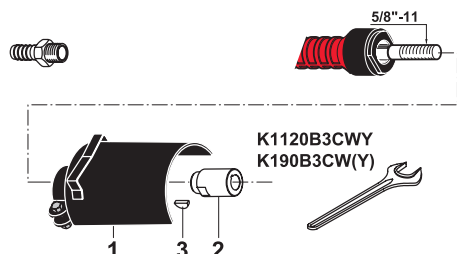
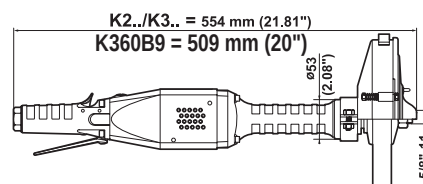
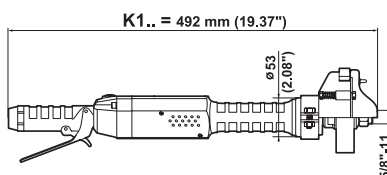
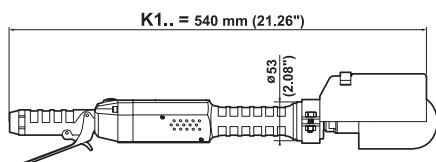
* Reinforced resinoid wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD	HOSE INT. Ø	
											AT FREE SPEED		AT MAX OUTPUT				
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	K918C3	615 170 118 0	18000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
A	K915C3	615 170 116 0	15000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
A	K912C3	615 170 111 0	12000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
B	K915C25	615 170 115 0	15000	63x13x9.52	2-1/2x1/2x3/8	3/8-24	900	1.21	1.6	3.5	7	15	16	34	3/8	10	3/8
C	K912D3	615 170 113 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
D	KC912D3	615 170 491 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.3	2.9	7	15	16	34	3/8	10	3/8
E	K912C4	615 170 112 0	12000	100x13x9.52	4x1/2x3/8	3/8-24	900	1.21	1.8	4.0	7	15	16	34	3/8	10	3/8

3/8"-24 UNF - 1/2"-13 UNC

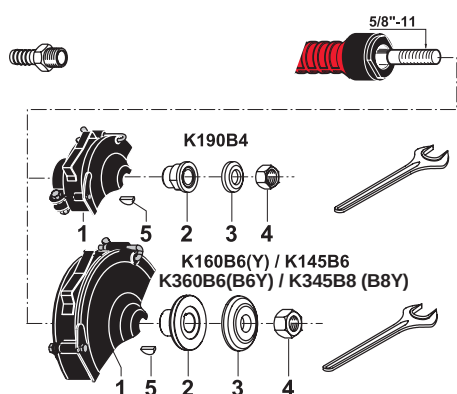
Accessories



K1120B3CWY / K190B3CW(CWY) - ø 80mm (3")

ACCESSORIES INCLUDED

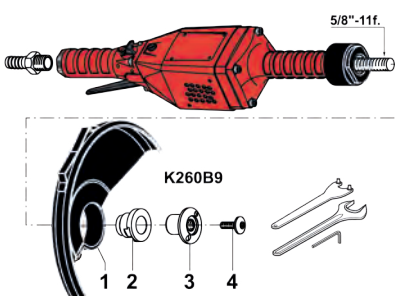
ITEM	PART NO.
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1 Wheel guard	615 504 080 0
2 Rear flange	615 503 095 0
3 Woodruff key	615 630 019 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0



K190B4 / K.60B6(B6Y) / K145B6 / K345B8(B8Y)

ACCESSORIES INCLUDED

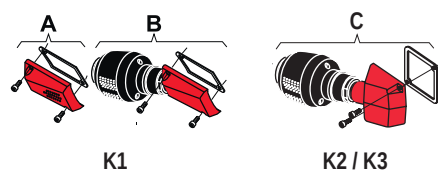
ITEM	K190B4 Ø 100 mm (4")	K.60B6 (B6Y) K145B6 Ø 150 mm (6")	K345B8 (B8Y) Ø 200 mm (8")
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 154 0	615 504 079 0	615 504 078 0
2 Rear flange	615 503 094 0	615 503 028 0	615 503 004 0
3 Front flange	615 502 046 0	615 502 027 0	615 502 007 0
4 Nut	615 608 006 0	615 608 006 0	615 608 006 0
5 Woodruff key	615 630 019 0	615 630 019 0	615 630 019 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0



K360B9 - ø 230 mm (9")

ACCESSORIES INCLUDED

ITEM	PART NO.
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1 Wheel guard	615 504 161 0
2 Rear flange	615 503 103 0
3 Nut	615 542 104 0
4 Safety screw	615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0
• Hex. key 6 mm	615 802 056 0



OPTIONAL ACCESSORIES

ITEM	K1..	K2.. / K3..
A Silencer kit	615 399 298 0	
B Silencer kit	615 399 459 0	
C Silencer kit		615 399 460 0



Grinders for cone wheels and type 1 wheels

Ø 80mm (3") - Ø 100mm (4") - Ø 150mm (6")
Ø 200mm (8") - Ø 230mm (9")

1000 to 2700 Watts (1.34 to 3.62 hp) - 4500 to 12000 rpm



A



B



C



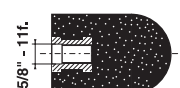
D



E



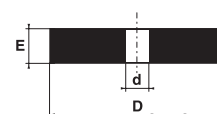
Type 27-42 wheel



Wheel. type 16 - 18 - 18R and 19



F



Type 1 wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

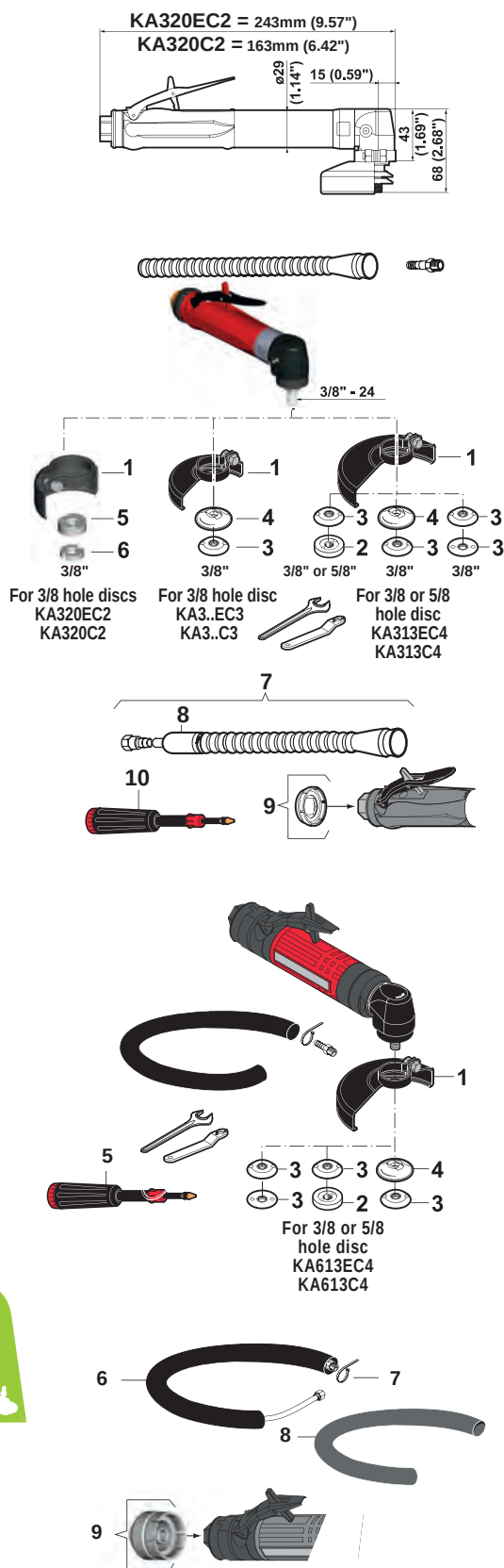
PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
											AT FREE SPEED		AT MAX OUTPUT				
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	K190B3CW	615 170 005 0	9000	80	3	5/8-11	1200	1.61	3.5	7.7	9	19	27	57	1/2	15	5/8
B	K190B4	615 170 004 0	9000	100x25x15.9	4x1x5/8	5/8-11	1200	1.61	3.2	7.0	9	19	27	57	1/2	15	5/8
C	K160B6	615 170 003 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
C	K145B6	615 170 002 0	4500	150x25x15.9	6x1x5/8	5/8-11	1000	1.34	3.5	7.7	5	10	20	42	1/2	15	5/8
D	K360B6	615 170 010 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8	615 170 009 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8
F	K360B9	615 170 521 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8

For USA Market only (to ANSI B186.1)

A	K1120B3CWY	615 170 171 0	12000	80	3	5/8-11	1300	1.74	3.0	6.6	16	34	30	64	1/2	15	5/8
A	K190B3CWY	615 170 172 0	9000	80	3	5/8-11	1200	1.61	3.0	6.6	9	19	27	57	1/2	15	5/8
C	K160B6Y	615 170 173 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
D	K360B6Y	615 170 177 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8Y	615 170 178 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8

5/8"-11 UNC

Accessories



KA320EC2/C2 / KA3..EC3/C3 / KA313EC4/C4C

ACCESSORIES INCLUDED

ITEM	KA3..EC2 KA320C2 Ø 51mm (2")	KA3..EC3 KA3..C3 Ø 76mm (3")	KA313EC4 KA313C4 Ø 100mm (4")
• Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0	615 875 106 0
• 1/4" air hose nipple for 8mm ID hose	615 704 019 0	615 704 019 0	615 704 019 0
1 Wheel guard	615 504 207 0	615 504 155 0	615 504 160 0
2 Flange			615 606 515 0
3 Flange		615 502 064 0	615 502 064 0
4 Flange		615 503 144 0	615 503 144 0
5 Flange	615 502 082 0		
6 Nut	894 016 276 5		
• Pin wrench, 20-3mm		615 802 008 0	615 802 008 0
• Pin wrench	615 802 008 0		
• Flat wrench, 11mm (7/16")	615 801 003 0	615 801 003 0	615 801 003 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
7 Complete silencer kit	615 396 101 0
8 Silencer	615 574 028 0
9 Clippable silencer	615 396 124 0
10 Grease gun includes (24g - 0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

KA613EC4 / KA613C4 - Ø 100mm (4")

ACCESSORIES INCLUDED

ITEM	KA613EC4 KA613C4
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm ID hose	615 704 017 0
1 Wheel guard	615 504 160 0
2 Flange	615 606 515 0
3 Flange	615 502 064 0
4 Flange	615 503 144 0
5 Grease gun includes (24g - 0.8oz)	615 990 149 0
• Pin wrench, 20-3mm	615 802 008 0
• Flat wrench, 11mm (7/16")	615 801 003 0

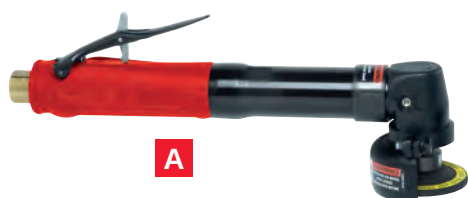
OPTIONAL ACCESSORIES

ITEM	PART NO.
6 Complete silencer kit	615 396 166 0
7 Clamp	615 873 115 0
8 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
9 Clippable silencer	615 396 655 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels and cut-off wheels Ø 51mm (2") - Ø 76mm (3") - Ø 100mm (4")

375 and 600 Watts (0.5 and 0.8 hp) - 13000 to 20000 rpm



A



B



C



D



E



F



G



H

Type 27-42 wheel



Type 41 wheel



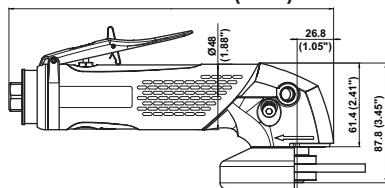
Caution: comply with the speeds recommended by component and abrasive manufacturers

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD			HOSE INT. Ø	
											AT FREE SPEED		AT MAX OUTPUT		in.	mm	in.	mm	in.
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm					
A	KA320EC2	615 170 487 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16		
B	KA320EC3	615 170 046 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16		
B	KA318EC3	615 170 045 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	4.5	9.5	9.5	20	1/4	8	5/16		
C	KA313EC4	615 170 050 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.83	1.83	3.0	6.5	9.0	19	1/4	8	5/16		
D	KA320C2	615 170 488 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16		
E	KA320C3	615 170 042 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16		
E	KA318C3	615 170 041 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	4.5	9.5	9.5	20	1/4	8	5/16		
F	KA313C4	615 170 049 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.66	1.45	3.0	6.5	9.0	19	1/4	8	5/16		
G	KA613EC4	615 170 138 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.50	3.30	10.0	21.0	15.0	32	3/8	10	3/8		
H	KA613C4	615 170 137 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.20	2.60	10.0	21.0	15.0	32	3/8	10	3/8		

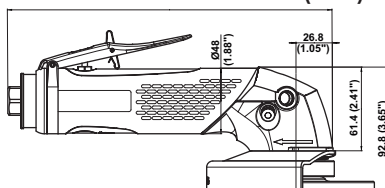
3/8"-24 UNF

Accessories

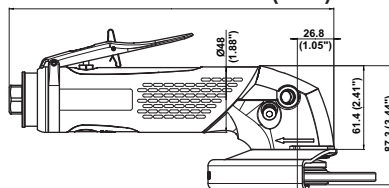
KA16135C4FK = 238mm (9.37")



KA16120A45VK / B45VK = 238mm (9.37")



KA16120A45 / B45 = 238mm (9.37")



KA16135C4FK - ø 100mm (4")

ACCESSORIES INCLUDED

ITEM	KA16135C4FK 3/8"-24
• Complete silencer kit	615 396 166 0
• Clamp	615 263 024 0
• Vibration-damping side handle	615 576 066 0
1 Wheel guard	615 504 196 0
2 Flange (Qty 2)	615 606 515 0
3 Rear flange	615 503 515 0
• Pin wrench 20-3mm	615 802 008 0
• Flat wrench, 16mm (5/8")	615 802 512 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
4 Clippable silencer	615 396 957 0
5 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0

KA16120A45VK - KA16120B45VK - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM	KA16120A45VK M14x2	KA16120B45VK 5/8" -11
• Complete silencer kit	615 396 166 0	615 396 166 0
• Clamp	615 263 024 0	615 263 024 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0
1 Multi-position guard	615 504 195 0	615 504 195 0
2 Auto-balancer	615 990 181 0	615 990 181 0
3 Front flange	615 502 066 0	615 502 067 0
4 Safety screw	615 614 076 0	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0

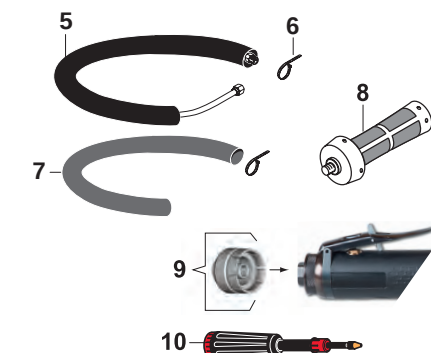
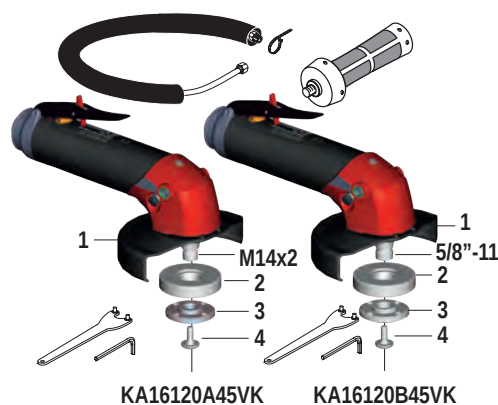
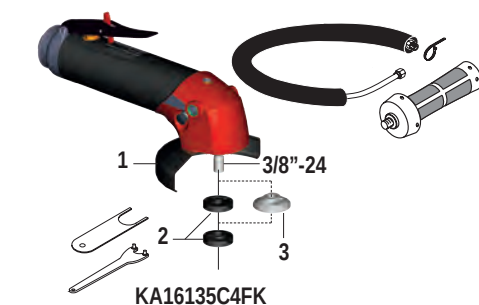
KA16120A45 - KA16120B45 - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM	KA16120A45 M14x2	KA16120B45 5/8" -11
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
• Clamp	615 263 024 0	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0	615 704 027 0
• Side handle	615 576 038 0	615 576 038 0
1 Multi-position guard	615 504 198 0	615 504 198 0
2 Rear flange	615 503 134 0	615 503 141 0
3 Front flange	615 502 066 0	615 502 067 0
4 Safety screw	615 614 076 0	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
5 Complete silencer kit	615 396 166 0
6 Clamp	615 263 024 0
7 Reinforced cloth-lined exhaust hose L= 0.75m (30")	615 875 116 0
8 Vibration-damping side handle	615 576 066 0
9 Clippable silencer	615 396 957 0
10 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2lb)	615 990 148 0



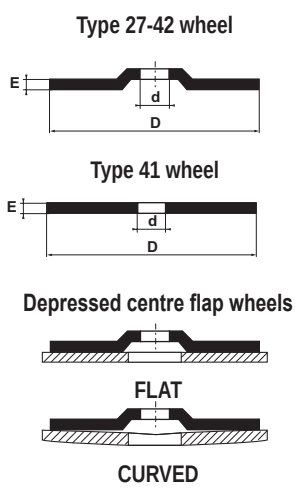
Grinders for depressed center wheels, cut-off wheels and flap wheel

Ø 100mm (4") - Ø 115mm (4.5")

1700 Watts (2.3 hp) - 12000 and 13500 rpm



Fixed wheel guard
Multi-position guard



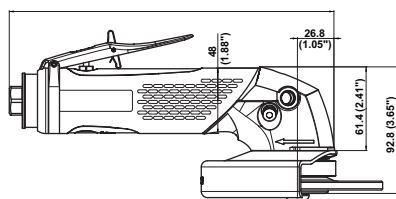
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT Ø	
							W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	l/s	cfm		l/s	cfm
			rpm	mm	in.	in.											
FIXED WHEEL GUARD																	
•	KA16135C4FK	615 170 441 0	13500	100x6.4x16	4x1/4x5/8	3/8-24	1700	2.3	1.53	3.4	25	53	35	74	3/8	13	1/2
MULTI-POSITION GUARD																	
A	KA16120A45VK	615 170 456 0	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700	2.3	1.87	4.1	20	42	32	68	3/8	13	1/2
A	KA16120B45VK	615 170 458 0	12000	115x6.4x22.2	4.5x1/4x7/8	5/8-11	1700	2.3	1.87	4.1	20	42	32	68	3/8	13	1/2
B	KA16120A45	615 170 455 0	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700	2.3	1.75	3.9	20	42	32	68	3/8	13	1/2
B	KA16120B45	615 170 457 0	12000	115x6.4x22.2	4.5x1/4x7/8	5/8-11	1700	2.3	1.75	3.9	20	42	32	68	3/8	13	1/2

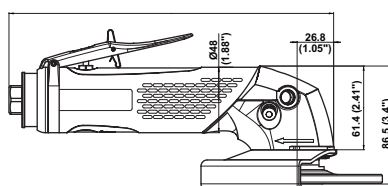
5/8"-11 UNC

Accessories

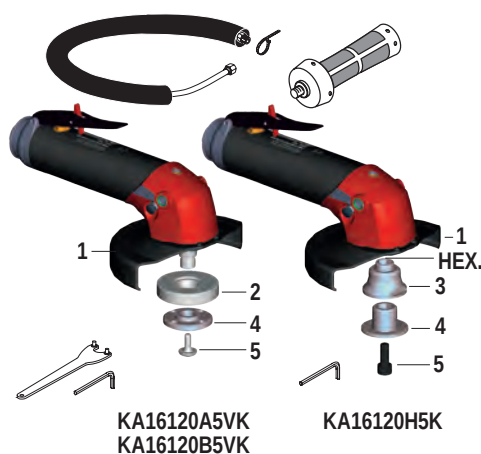
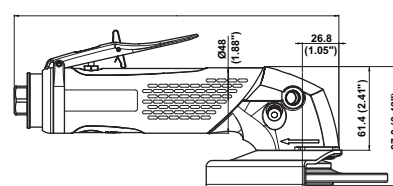
KA16120A5VK / B5VK = 238mm (9.37")



KA16120H5K / H5 = 238mm (9.37")



KA16120A5 / B5 = 238mm (9.37")



KA16120A5VK / B5VK / H5K - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM	KA16120A5VK M14x2	KA16120B5VK 5/8-11	KA16120H5K Hex.
• Complete silencer kit	615 396 166 0	615 396 166 0	615 396 166 0
• Clamp	615 263 024 0	615 263 024 0	615 263 024 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0	615 576 066 0
1 Multi-position guard	615 504 193 0	615 504 193 0	615 504 197 0
2 Auto-balancer	615 990 181 0	615 990 181 0	
3 Rear flange			615 503 124 0
4 Front flange	615 502 066 0	615 502 067 0	615 502 062 0
5 Safety screw	615 614 076 0	615 614 076 0	615 616 101 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex. key 6mm			615 802 056 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0	

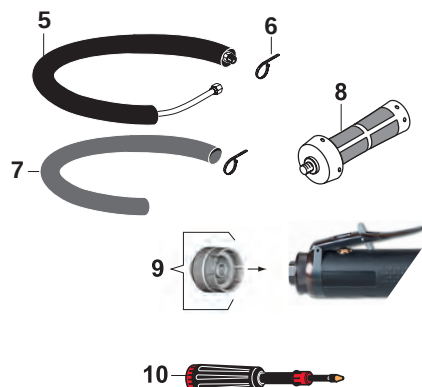
KA16120A5 / B5 / H5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM	KA16120A5 M14x2	KA16120B5 5/8-11	KA16120H5 Hex.
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0	615 875 113 0
• Clamp	615 263 024 0	615 263 024 0	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0	615 704 027 0	615 704 027 0
• Side handle	615 576 038 0	615 576 038 0	615 576 038 0
1 Multi-position guard	615 504 197 0	615 504 197 0	615 504 197 0
2 Rear flange	615 503 134 0	615 503 141 0	615 503 124 0
3 Front flange	615 502 066 0	615 502 067 0	615 502 062 0
4 Safety screw	615 614 076 0	615 614 076 0	615 616 101 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex. key 6mm			615 802 056 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0	

OPTIONAL ACCESSORIES

ITEM	PART NO.
5 Complete silencer kit	615 396 166 0
6 Clamp	615 263 024 0
7 Reinforced cloth-lined exhaust hose L = 0.75 m (30")	615 875 116 0
8 Vibration-damping side handle	615 576 066 0
9 Clippable silencer	615 396 957 0
10 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels, cut-off wheels and flap wheels ø 127mm (5")

1700 Watts (2.3 hp) - 12000 rpm

Quick wheel change

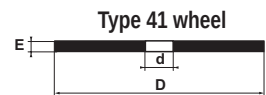
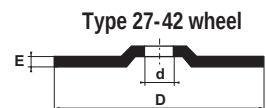
Multi-position guard



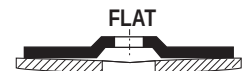
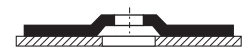
A



B



Depressed centre flap wheels



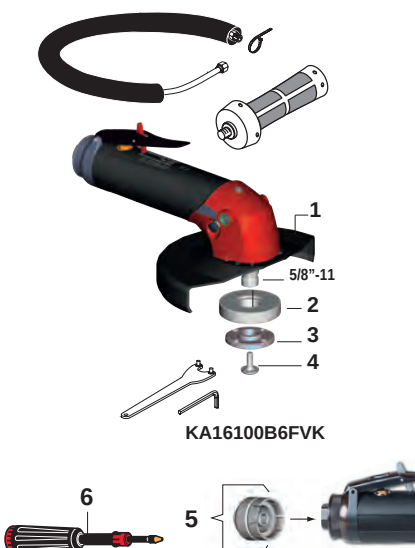
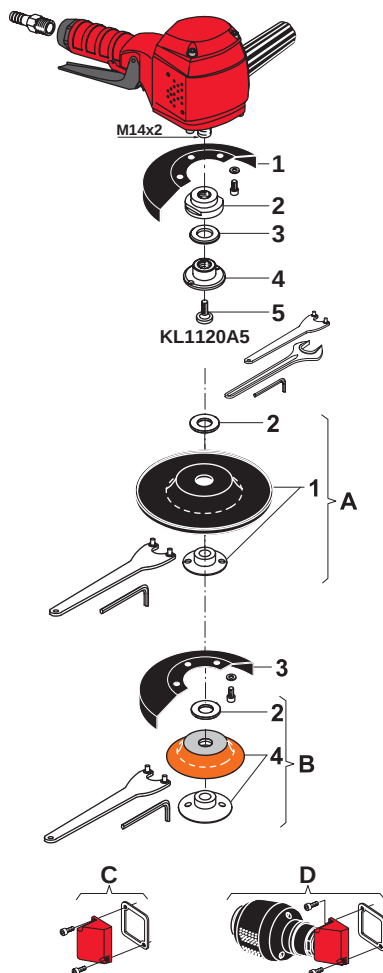
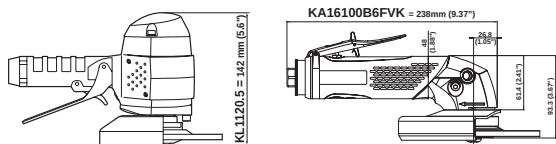
CURVED

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT Ø	
											AT FREE SPEED	AT MAX OUTPUT					
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in
A	KA16120A5VK	615 170 438 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	1.90	4.2	20	42	32	68	3/8	13	1/2
A	KA16120B5VK	615 170 454 0	12000	127x6.4x22.2	5x1/4x7/8	5/8-11	1700	2.3	1.90	4.2	20	42	32	68	3/8	13	1/2
A	KA16120H5K	615 170 434 0	12000	127x6.4x22.2	5x1/4x7/8	HEX	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2
B	KA16120A5	615 170 437 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2
B	KA16120B5	615 170 439 0	12000	127x6.4x22.2	5x1/4x7/8	5/8-11	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2
B	KA16120H5	615 170 444 0	12000	127x6.4x22.2	5x1/4x7/8	HEX	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2

5/8"-11 UNC

Accessories



KL1120A5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM		KL1120A5 M14x2 / 5/8"-11
	• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
1	Wheel guard	615 504 086 0
2	Rear flange	615 503 096 0
3	Washer for wheels thickness <2mm	615 642 052 0
4	Nut	615 606 032 0
5	Safety screw	615 614 033 0
	• Pin wrench. 35mm (1-3/8")	615 802 010 0
	• Flat wrench. 27mm (1-1/16")	615 801 077 0
	• Hex. key 6mm	615 802 056 0

OPTIONAL ACCESSORIES

ITEM		KL1120A M14x2
A	Soft sanding kit for abrasive disc (including item 1-2)	615 399 251 0
1	Ventilated backing pad with nut M14 (max. 12000 rpm)	615 990 127 0
	• Pin wrench, 35mm (1-3/8")	615 802 010 0
	• Hex key 8mm (5/16")	615 802 061 0
2	M14 Spacer	615 641 027 0

ITEM		KL1120A M14x2
3	Wheel guard	615 504 086 0
B	Sanding kit for semirigid disc (including item 4-2)	615 399 203 0
4	Backing pad with nut M14 (max. 12000 rpm)	615 990 129 0
2	M14 Spacer	615 641 027 0
	• Hex key 8mm (5/16")	615 802 061 0
	• Pin wrench, 35mm (1-3/8")	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
C	Silencer kit	615 396 117 0
D	Silencer kit	615 399 462 0

KA16100B6FVK - ø 150mm (6")

ACCESSORIES INCLUDED

ITEM		KA16100B6FVK 5/8"-11
	• Complete silencer kit	615 396 166 0
	• Vibration-damping side handle	615 576 066 0
	• Clamp	615 263 024 0
1	Wheel guard	615 504 202 0
2	Auto-balancer	615 990 181 0
3	Front flange	615 502 067 0
4	Safety screw	615 614 076 0
	• Pin wrench, 35mm (1-3/8")	615 802 010 0
	• Hex. key 6.35mm (1/4")	615 802 057 0

OPTIONAL ACCESSORIES

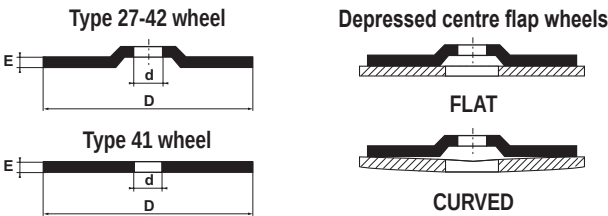
ITEM		KA16100B6FVK
5	Clippable silencer	615 396 957 0
6	Grease gun includes 24g (0.8oz)	615 990 149 0
	• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels, cut-off wheels and flap wheels $\varnothing$ 127mm (5") - $\varnothing$ 150mm (6")

750 and 1600 Watts (1 and 2.15 hp) - 10000 and 12000 rpm

Fixed wheel guard

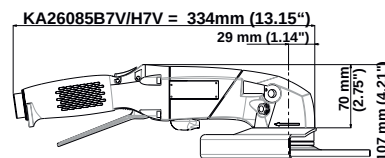
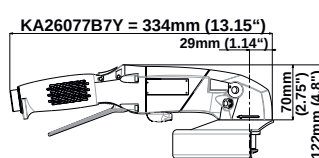
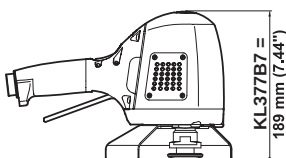
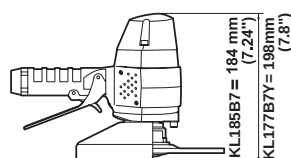


Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT Ø	
																AT FREE SPEED	AT MAX OUTPUT
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in
A	KL1120A5	615 170 013 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	750	1.0	2.3	5.0	16	34	16	34	3/8	10	3/8
B	KA16100B6FVK	615 170 470 0	10000	150x7.0x22.2	6x1/4x7/8	5/8-11	1600	2.15	1.9	4.2	20	42	32	68	3/8	13	1/2

5/8"-11 UNC

Accessories



KL185B7 / KL377B7 / KL177B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM	KL185B7 Ø 180mm (7")	KL377B7 / V Ø 180mm (7")	KL177B7Y Ø 180mm (7")
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0		
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		615 704 016 0
1 Wheel guard	615 504 095 0	615 504 182 0	615 504 169 0
2 Rear flange for model B7	615 503 103 0	615 503 103 0	615 503 150 0
3 Auto-balancer for model B7V	615 503 146 0		
4 Nut	615 542 104 0	615 542 104 0	615 608 049 0
5 Safety screw	615 614 034 0	615 614 034 0	615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0
• Hex. key 6mm	615 802 056 0	615 802 056 0	615 802 056 0

KL360B6C / KL360B6CY - Ø 150mm (6")

ACCESSORIES INCLUDED

ITEM	KL360B6C	KL360B6CY
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 181 0	615 504 178 0
2 Rear flange	615 503 116 0	615 503 150 0
3 Safety screw	615 614 034 0	
4 Nut		615 608 049 0
• Lever		615 595 202 0
• Flat wrench, 27mm (11/16")	615 801 077 0	
• Hex. key	615 802 056 0	615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM	KL185B7	KL377B7	KL177B7Y
A Silencer	615 399 462 0		615 399 462 0
B Silencer		615 399 463 0	
C Auto-Balancer	615 503 146 0		

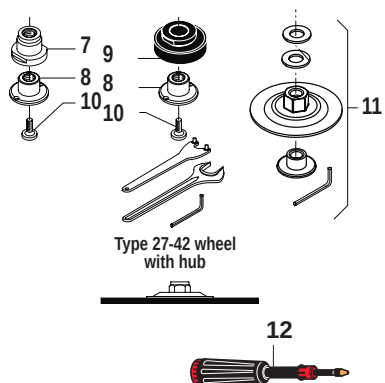
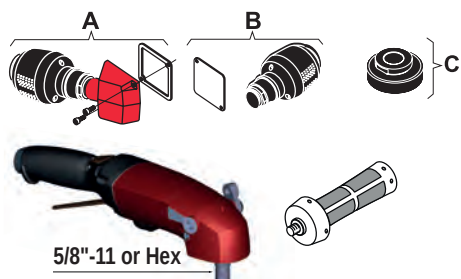
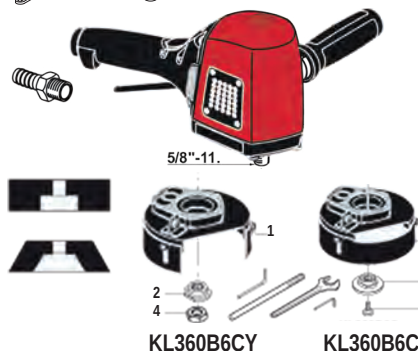
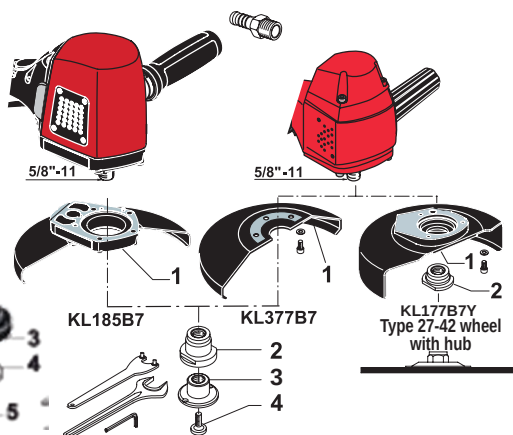
KA26085B7V / KA26085H7V / KA26077B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM	KA26085B7V	KA26085H7V	KA26077B7Y
• Vibration damping side handle	615 576 066 0	615 576 066 0	615 576 066 0
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
• Rotating exhaust kit	615 397 743 5	615 397 743 5	615 397 743 5
• Rotating handle support kit	615 397 741 5	615 397 741 5	615 397 741 5
1 Wheel guard kit	615 504 211 5	615 504 211 5	615 504 213 5
2 Auto-balancer	615 990 181 0	615 990 194 0	
3 Rear flange		615 503 164 0	615 503 153 0
4 Front flange	615 502 067 0	615 502 085 0	
5 Nut 5/8"			615 608 049 0
6 Safety screw	615 614 076 0		615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex key	615 802 056 0	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL177B7Y KA26077B7Y
7 Rear flange	615 503 103 0
8 Nut	615 542 104 0
9 Rear flange balancer	615 503 146 0
10 Safety screw	615 614 034 0
11 Wheel adaptor	C087920
• Pin wrench	615 802 010 0
• Flat wrench	615 801 077 0
• Hex key	615 802 056 0
12 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels, cut-off wheels and flap wheels ø 180mm (7")

1200 to 3000 Watts (1.61 to 4.02 hp) - 6000 to 8500 rpm



A



B



C



D

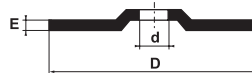


E

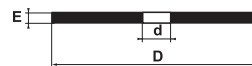


F

Type 27-42 wheel



Type 41 wheel



Depressed centre flap wheels



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
											AT FREE SPEED	AT MAX OUTPUT					
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.

VERTICAL GRINDERS

A	KL185B7	615 170 012 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	16	34	27	57	1/2	13	1/2
B	KL377B7	615 170 341 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.2	9.2	19	40	46	97	1/2	15	5/8

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C	KL177B7Y	615 170 182 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	8	17	25	53	1/2	15	5/8
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LOW VIBRATION - VERTICAL GRINDERS

B	KL377B7V	615 170 472 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.3	9.4	19	40	46	97	1/2	15	5/8
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VERTICAL GRINDERS for cup wheels

D	KL360B6C	615 170 337 0	6000	150	6	5/8-11	2400	3.22	4.2	9.2	9	19	39	82	1/2	15	5/8
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For USA Market only (to ANSI B186.1)

D	KL360B6CY	615 170 351 0	6000	150	6	5/8-11	2900	3.89	4.4	9.7	12	25	43	91	1/2	15	5/8
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ANGLE GRINDERS

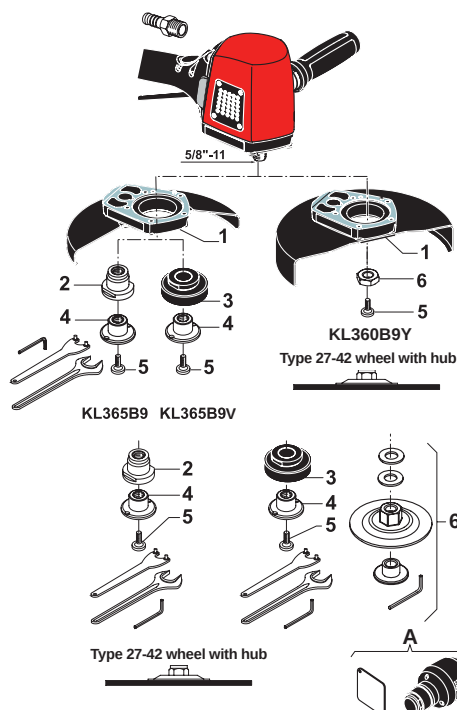
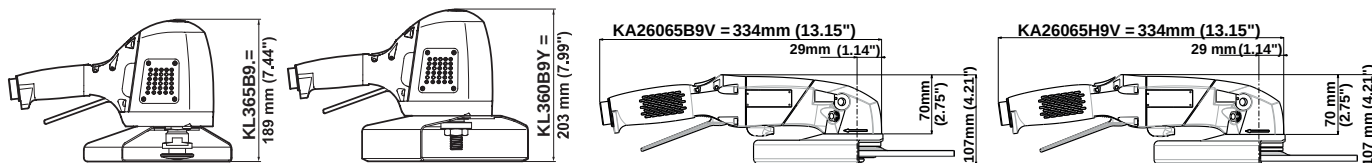
E	KA26085B7V	615 170 476 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	5.9	17	36	36	77	1/2	15	5/8
E	KA26085H7V	615 170 489 0	8500	180x9.5x22.2	7x3/8x7/8	HEX.	2100	2.82	2.7	5.9	17	36	36	77	1/2	15	5/8

For USA Market only (to ANSI B186.1)

F	KA26077B7Y	615 170 478 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	6.6	16	33	32	69	1/2	15	5/8
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5/8"-11 UNC

Accessories



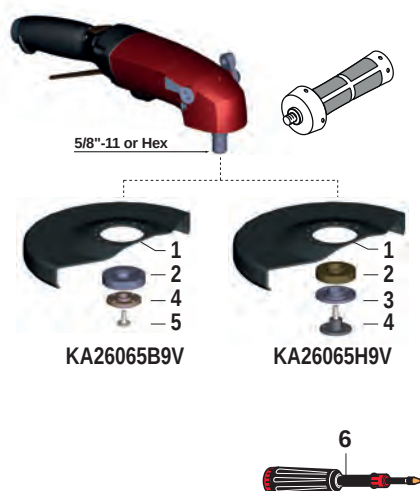
KL365B9 / KL365B9V / KL360B9Y - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM	KL365B9 KL365B9V	KL360B9Y
• 1/2" air hose nipple for 16 mm (5/8") ID hose	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 183 0	615 504 180 0
2 Rear flange for model B9	615 503 103 0	
3 Auto-balancer for model B9V	615 503 146 0	
4 Nut	615 542 104 0	
5 Safety screw	615 614 034 0	615 614 034 0
6 Nut		615 608 049 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
• Hex. Key 6mm	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL365B9	KL360B9Y
2 Rear flange		615 503 103 0
3 Auto-balancer		615 503 146 0
4 Nut		615 542 104 0
5 Safety screw		615 614 034 0
6 Wheel adaptor		C087920
• Pin wrench, 35mm (1-3/8")		615 802 010 0
• Flat wrench, 27mm (1-1/16")		615 801 077 0
• Hex. Key 6mm		615 802 056 0
A Silencer kit	615 399 463 0	615 399 463 0



KA26065B9V / KA26065H9V - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM	KL365B9	KL360B9Y
• Vibration damping side handle	615 576 066 0	615 576 066 0
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
• Rotating exhaust kit	615 397 743 5	615 397 743 5
• Rotating handle support kit	615 397 741 5	615 397 741 5
1 Wheel guard kit	615 504 212 5	615 504 212 5
2 Auto-balancer	615 990 181 0	615 990 194 0
3 Rear flange		615 503 164 0
4 Front flange	615 502 067 0	615 502 085 0
5 Safety screw	615 614 076 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
6 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels

Ø 230mm (9")

2100 and 2900 Watts (2.82 and 3.89 hp) - 6000 and 6500 rpm



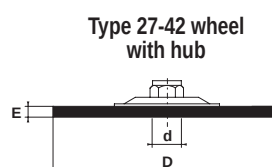
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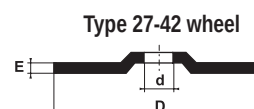
B



C



Type 27-42 wheel
with hub



Type 27-42 wheel

Type 41 wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DxD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
											AT FREE SPEED		AT MAX OUTPUT		in.	mm	in.	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm				

VERTICAL GRINDERS

A	KL365B9	615 170 338 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.4	9.7	13	27	44	93	1/2	15	5/8	
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For USA Market only (to ANSI B186.1)

B	KL360B9Y	615 170 350 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.4	9.7	12	25	43	91	1/2	15	5/8	
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LOW VIBRATION - VERTICAL GRINDERS

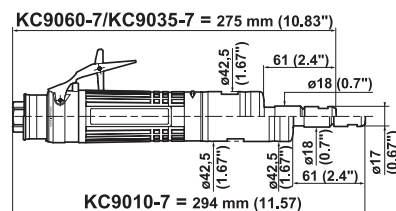
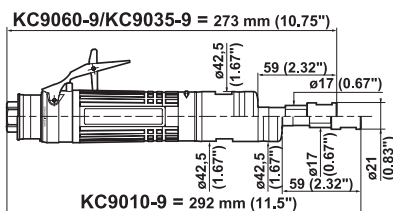
A	KL365B9V	615 170 474 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.5	9.9	13	27	44	93	1/2	15	5/8	
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ANGLE GRINDERS

C	KA26065B9V	615 170 477 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8	
C	KA26065H9V	615 170 490 0	6500	230x6.4x22.2	9x1/4x7/8	HEX.	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8	

5/8"-11 UNC

Accessories



KC9060-9 / KC9035-9 / KC9010-9

ACCESSORIES INCLUDED

	PART NO.
• Series 200 resilient collet, $\varnothing$ 5.55 to 6.35mm (1/4")	615 526 063 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm	615 801 005 0
• Flat wrench, 19mm (3/4")	615 801 076 0
• Side handle	615 576 068 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
• Series 200 resilient collet, $\varnothing$ 2.4 to 3.2mm (1/8")		615 526 061 0
• Series 200 resilient collet, $\varnothing$ 5.2 to 6mm		615 526 062 0
• Series 200 resilient collet, $\varnothing$ 7.2 to 8mm (5/16")		615 526 064 0
• Series 200 resilient collet, $\varnothing$ 8.7 to 9.5mm (3/8")		615 526 065 0
1 Nut 3/8" - 24		615 608 044 0
2 Complete silencer kit		615 396 166 0
3 Clamp		615 873 115 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")		615 875 116 0
5 Clippable silencer		615 396 655 0

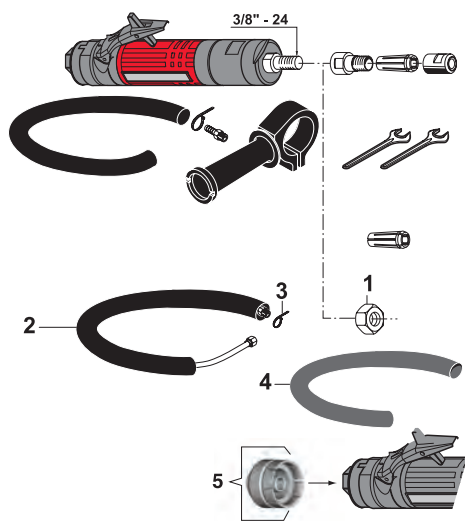
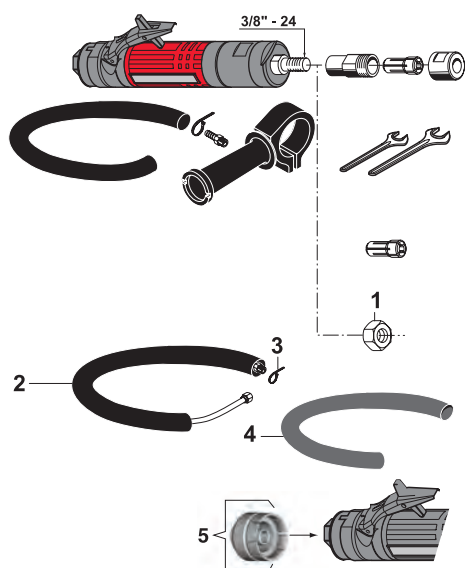
KC9060-7 / KC9035-7 / KC9010-7

ACCESSORIES INCLUDED

	PART NO.
• CNOMO collet $\varnothing$ 6mm	615 526 049 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm (Qty 2)	615 801 005 0
• Side handle	615 576 068 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
• CNOMO collet $\varnothing$ 3mm		615 526 048 0
• CNOMO collet $\varnothing$ 6.35mm (1/4")		615 526 050 0
• CNOMO collet $\varnothing$ 8mm (5/16")		615 526 051 0
1 Nut 3/8" - 24		615 608 044 0
2 Complete silencer kit		615 396 166 0
3 Clamp		615 873 115 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")		615 875 116 0
5 Clippable silencer		615 396 655 0



Sanders for expandable wheels, flap wheels, brushes

900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with series 200 Erickson collet, Ø 5.55 to 6.35mm (1/4")



A



B

Series 200 Erickson collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
										AT FREE SPEED		AT MAX. POWER				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KC9060-9	615 170 166 0	5500	9.5	3/8	900	1.21	1.38	3.0	10	21	16	34	3/8	10	3/8
A	KC9035-9	615 170 167 0	3500	9.5	3/8	900	1.21	1.38	3.0	6	13	14	30	3/8	10	3/8
B	KC9010-9	615 170 168 0	1000	9.5	3/8	900	1.21	1.45	3.2	10	21	16	34	3/8	10	3/8

Sanders for expandable wheels, flap wheels, brushes...

900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with CNOMO collet, Ø 6mm



A



B

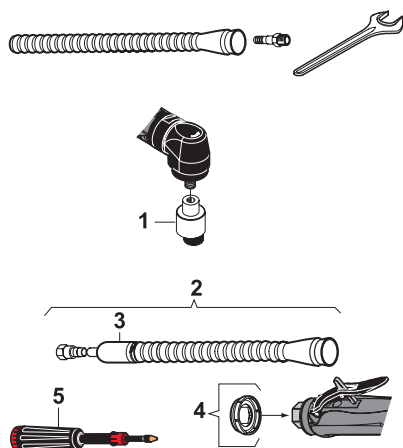
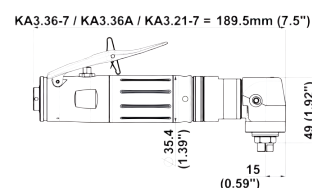
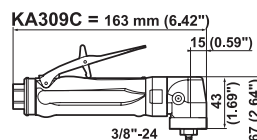
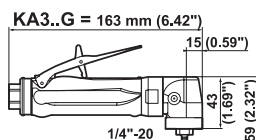
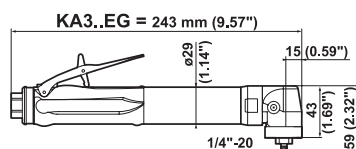
CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
										AT FREE SPEED		AT MAX. POWER				
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KC9060-7	615 170 122 0	5500	8	5/16	900	1.21	1.38	3.0	10	21	16	34	3/8	10	3/8
A	KC9035-7	615 170 121 0	3500	8	5/16	900	1.21	1.38	3.0	6	13	14	30	3/8	10	3/8
B	KC9010-7	615 170 120 0	1000	8	5/16	900	1.21	1.45	3.2	10	21	16	34	3/8	10	3/8

Accessories



KA3..EG / KA3..G / KA309C

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 0.8m (31")	615 875 106 0
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
• Flat wrench, 11mm (7/16")	615 801 003 0

OPTIONAL ACCESSORIES

ITEM	KA309C 3/8"-24
1 Excentric sanding head for 1" pad	615 396 251 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
2 Complete silencer kit	615 396 101 0
3 Silencer	615 574 028 0
4 Clippable silencer	615 396 124 0
5 Grease gun (capacity 24g - 0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

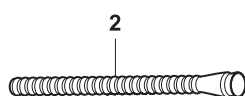
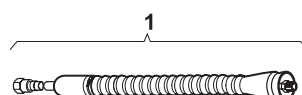
KA3.36A / KA3.36-7 / KA3.21-7

ACCESSORIES INCLUDED

	KA3.36A	KA3.36-7/KA3.21-7
• Collet $\varnothing$ 6mm	-	615 526 079 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0	615 705 009 0
• Flat wrench, 10mm (3/8")	-	615 801 002 0
• Flat wrench, 14mm	-	615 801 005 0

OPTIONAL ACCESSORIES

ITEM	KA3.36A	KA3.36-7/KA3.21-7
1 Complete silencer kit	615 399 423 0	615 399 423 0
2 Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0
3 Backing pad $\varnothing$ 50mm (31/32")		615 804 098 0
• Collet $\varnothing$ 2mm		615 526 066 0
• Collet $\varnothing$ 2.5mm		615 526 068 0
• Collet $\varnothing$ 3mm		615 526 069 0
• Collet $\varnothing$ 3.5mm		615 526 070 0
• Collet $\varnothing$ 4mm (5/32")		615 526 071 0
• Collet $\varnothing$ 4.5mm		615 526 073 0
• Collet $\varnothing$ 5mm		615 526 075 0
• Collet $\varnothing$ 5.5mm		615 526 077 0
• Collet $\varnothing$ 6mm		615 526 079 0
• Collet $\varnothing$ 6.5mm (1/4")		615 526 081 0
• Collet $\varnothing$ 7mm		615 526 083 0
• Collet $\varnothing$ 7.5mm		615 526 084 0
• Collet $\varnothing$ 8mm (5/16")		615 526 088 0



See page 207



Sanders for abrasive discs

220 to 375 Watts (0.3 to 0.5 hp) - 2100 to 20000 rpm

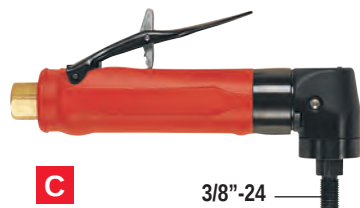
Supplied with 1/4", 3/8" or M14 threaded spindle only



A

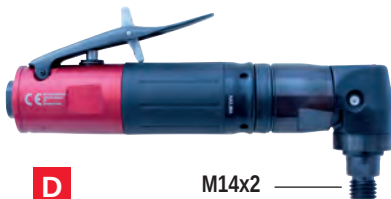
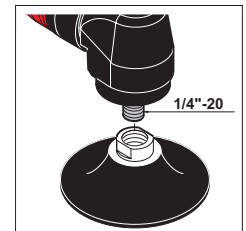


B



C

3/8"-24



D

M14x2



E

CNOMO collet, Ø 6mm

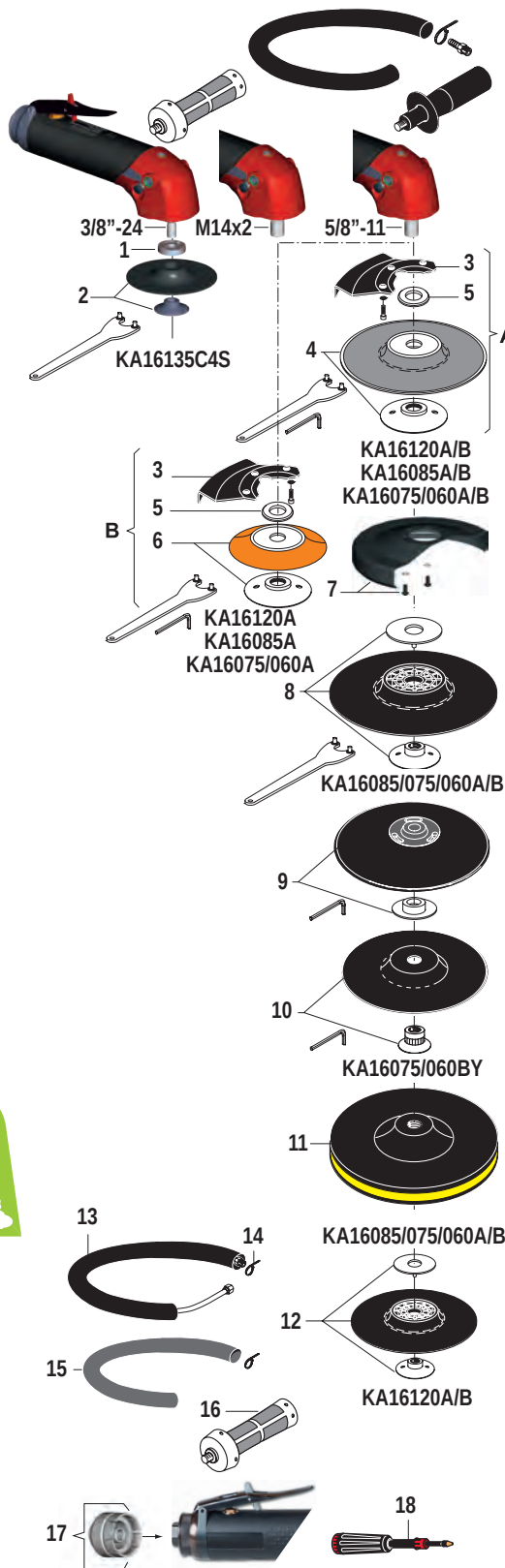
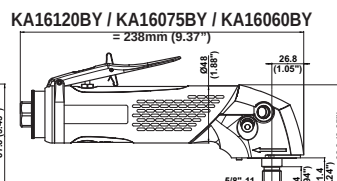
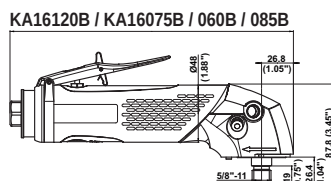
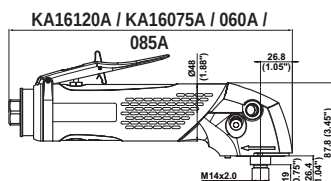
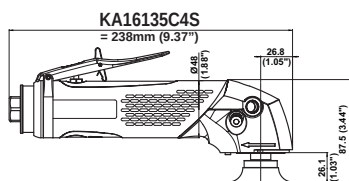
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE OR COLLET MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
											AT FREE SPEED	AT MAX SPEED					
			rpm	ø mm	ø in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KA320EG	615 170 048 0	20000	76	3	1/4-20	375	0.5	0.67	1.47	6.5	13.5	10	21	1/4	8	5/16
A	KA312EG	615 170 040 0	12000	76	3	1/4-20	375	0.5	0.67	1.47	3.0	6.5	9	19	1/4	8	5/16
B	KA320G	615 170 044 0	20000	76	3	1/4-20	375	0.5	0.50	1.10	6.5	13.5	10	21	1/4	8	5/16
B	KA318G	615 170 310 0	18000	76	3	1/4-20	375	0.5	0.50	1.10	3.0	6.5	9	19	1/4	8	5/16
B	KA312G	615 170 038 0	12000	76	3	1/4-20	375	0.5	0.50	1.10	3.0	6.5	9	19	1/4	8	5/16
B	KA309G	615 170 204 0	9000	76	3	1/4-20	220	0.3	0.50	1.10	2.2	4.7	8	17	1/4	8	5/16
C	KA309C	615 170 203 0	9000	76	3	3/8-24	220	0.3	0.50	1.10	2.2	4.7	8	17	1/4	8	5/16

LOW SPEED SANDERS

D	KA3.36A	615 170 525 0	3600	-		M14x2	300	0.4	0.70	1.54	9.5	20.0	-	-	1/4	6	1/4
E	KA3.36-7	615 170 523 0	3600	cap. 8mm (5/16")		-	300	0.4	0.70	1.54	9.5	20.0	-	-	1/4	6	1/4
E	KA3.21-7	615 170 524 0	2100	cap. 8mm (5/16")		-	300	0.4	0.70	1.54	9.5	20.0	-	-	1/4	6	1/4

1/4"-20 UNC - 3/8"-24 UNF



KA16135C4S / KA16120/075/060A-B-BY / KA16085A-B

ACCESSORIES INCLUDED

ITEM	KA16135C4S 3/8"-24	KA16120	KA16085 KA16075/060
• Exhaust hose L= 1.5m (60")	615 875 113 0	615 875 113 0	615 875 113 0
• Clamp	615 263 024 0	615 263 024 0	615 263 024 0
• 3/8" air hose nipple for 13mm ID hose	615 704 027 0	615 704 027 0	615 704 027 0
• Side handle			615 576 038 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0	
1 Flange	615 606 515 0		
2 Backing with nut	615 990 167 0		
• Pin wrench, 20-3mm	615 802 008 0		

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 127MM (5")		KA16120A KA16085/075/060A	KA16120B KA16085/075/060B
ITEM		M14x2	5/8"-11
A	Sanding kit for abrasive disc (including items 4-5)	615 396 072 0	615 396 072 0
3	Finger guard	615 504 145 0	615 504 145 0
4	Ventilated backing pad with nut M14 & 5/8" (max. 12.000 rpm)	615 990 127 0	615 990 127 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
•	Hex key 8mm (5/16")	615 802 061 0	615 802 061 0
5	M14 Spacer	615 641 027 0	
5	5/8" Spacer		615 642 050 0

SANDING WITH SEMIRIGID DISC Ø 127MM (5")		KA16120A KA16085/075/060A
ITEM		M14X2
B	Sanding kit for semirigid disc (including items 5-6)	615 396 075 0
3	Finger guard	615 504 145 0
6	Backing pad with nut M14 (max. 12.000 rpm)	615 990 129 0*
•	Pin wrench, 35mm (1-3/8")	615 802 010 0
•	Hex key 8mm (5/16")	615 802 061 0
5	M14 Spacer	615 641 027 0

SANDING		KA16085/075/060A	KA16085/075/060B	KA16075/060BY
ITEM		M14x2	5/8"-11	5/8"-11
7	Sanding guard ø 180mm (7")	615 504 205 0*	615 504 205 0*	615 504 205 0*
8	Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0*	615 990 133 0*	
8	Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8.500 rpm)	615 990 134 0*	615 990 134 0*	
•	Pin wrench 35mm (1-3/8")	615 802 010 0	615 802 010 0	
9	Spiracool pad whit nut ø 180mm (7") (max.8500 rpm)			S091836
10	Complete kit ø 180mm (7") (max.7000 rpm) for KA16060BY			K129587
•	Hex key 8mm (5/16")			615 802 061 0
11	Rigid velcro-backed backing pad ø 180mm (7") (max.8700 rpm)		615 990 146 0	
11	Rigid velcro-backed backing pad ø 150mm (6") (max.10000 rpm)		615 990 138 0	

* Spare part: Nut 606.22 for M14 model and 608.29 for 5/8"-11

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
12 Semi-hard backing pad with nut M14 & 5/8" - ø 127mm (5") (max. 12.000 rpm)	615 804 074 0
13 Complete silencer kit	615 396 166 0
14 Clamp	615 263 024 0
15 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
16 Vibration-damping side handle	615 576 066 0
17 Clippable silencer	615 396 957 0
18 Grease gun includes 24g (0.8 oz)	615 990 149 0
• Grease for bevel gear (1 kg -2.2 lb)	615 990 148 0



Sanders for abrasive discs

Ø 100mm (4") - Ø 127mm (5") - Ø 150mm (6")
Ø 180mm (7")

1350 to 1700 Watts (1.83 to 2.3 hp) - 6000 to 13500 rpm

Supplied with M14 or 5/8" threaded spindle only



A



B



C D



C D



Caution: comply with the speeds recommended by component and abrasive manufacturers.

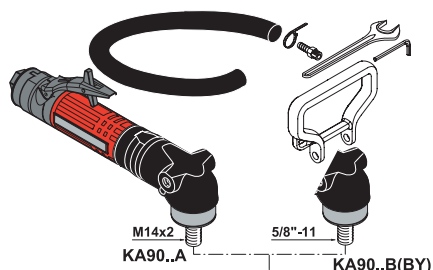
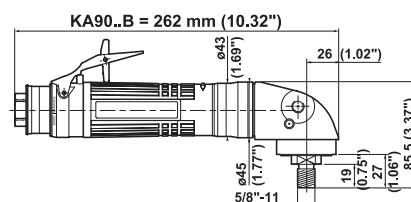
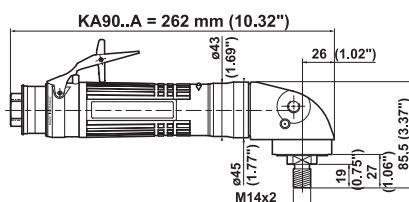
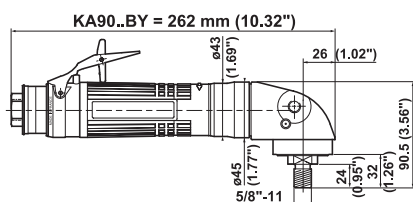
PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
									AT FREE SPEED		AT MAX. SPEED				
			rpm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KA16135C4S	615 170 446 0	13500	3/8-24	1 700	2.28	1.48	3.3	25	53	35	74	3/8	13	1/2
B	KA16120A	615 170 435 0	12000	M14x2	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
B	KA16120B	615 170 445 0	12000	5/8-11	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16085A	615 170 468 0	8500	M14x2	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16085B	615 170 469 0	8500	5/8-11	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2
C/D	KA16075A	615 170 448 0	7500	M14x2	1 500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2
C/D	KA16075B	615 170 452 0	7500	5/8-11	1 500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2
C/D	KA16060A	615 170 449 0	6000	M14x2	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2
C/D	KA16060B	615 170 453 0	6000	5/8-11	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2

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B	KA16120BY	615 170 447 0	12000	5/8-11	1 700	2.28	1.41	3.1	20	42	32	68	3/8	13	1/2
D	KA16075BY	615 170 450 0	7500	5/8-11	1 500	2.01	1.41	3.1	15	32	27	57	3/8	13	1/2
D	KA16060BY	615 170 451 0	6000	5/8-11	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2

3/8"-24 UNF - 5/8"-11 UNC

Accessories



KA90..A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Support handle	615 576 069 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0
• Hex key 8mm (5/16")	615 802 061 0

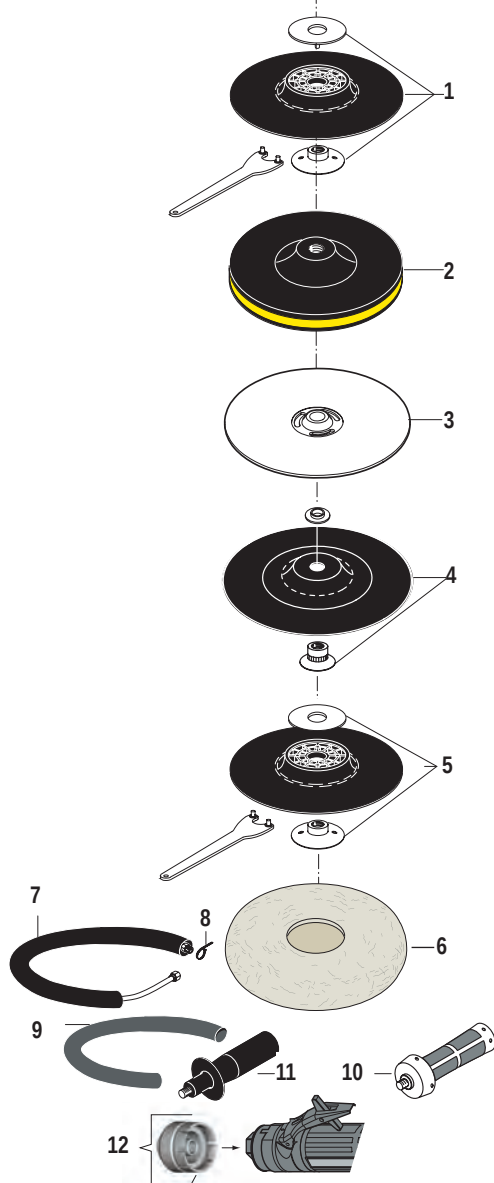
OPTIONAL ACCESSORIES

SANDING	KA90..A M14x2	KA90..B 5/8"-11	KA9030/20BY 5/8"-11
ITEM			
1 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0	615 990 133 0	
1 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 134 0	615 990 134 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
2 Rigid velcro-backed backing pad ø 180mm (7") (max. 8700 rpm)		615 990 146 0	
2 Rigid velcro-backed backing pad ø 150mm (6") (max. 10000 rpm)		615 990 138 0	
3 Spiracool pad with nut ø 180mm (7") (max. 8500 rpm)			S091836
3 Spiracool pad with nut ø 230mm (9") (max. 6500 rpm)			S091839
4 Complete Kit ø 180mm (7") (max. 7000 rpm)			K129587
• Hex. Key 8mm (5/16")			615 802 061 0

POLISHING	KA90..A
ITEM	KA90..B
5 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0
• Pin wrench 35mm (1-3/8")	615 802 010 0
6 Sheepskin ø 180mm (7") (max. 2100 rpm)	615 845 999 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
7 Complete silencer kit	615 396 166 0
8 Clamp	615 873 115 0
9 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
10 Vibration-damping side handle	615 576 066 0
11 Side handle	615 576 038 0
12 Clippable silencer	615 396 655 0

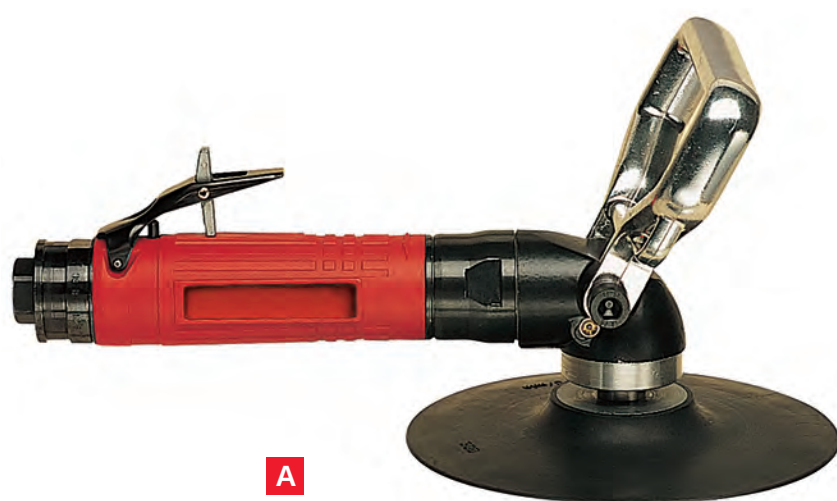


Sanders for abrasive discs polishing

Ø 150mm (6") - Ø 180mm (7") - Ø 230mm (9")

900 Watts (1.21 hp) - 2000 and 3000 rpm

Supplied with M14 or 5/8" threaded spindle only



A

Caution: comply with the speeds recommended by component and abrasive manufacturers.

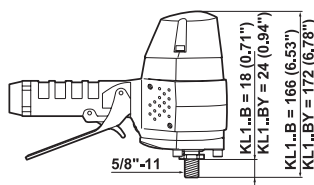
PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
									AT FREE SPEED		AT MAX OUTPUT				
			rpm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	KA9030A	615 170 098 0	3000	M14x2	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
A	KA9030B	615 170 099 0	3000	5/8-11	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
A	KA9020A	615 170 096 0	2000	M14x2	900	1.21	1.6	3.5	7	15	17	36	3/8	10	3/8
A	KA9020B	615 170 097 0	2000	5/8-11	900	1.21	1.6	3.5	7	15	17	36	3/8	10	3/8

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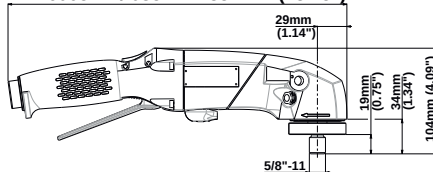
A	KA9030BY	615 170 309 0	3000	5/8-11	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
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5/8"-11 UNC

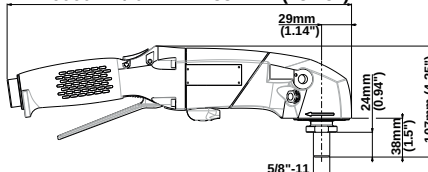
Accessories



KA26065BV / 085BV = 334mm (13.15'')



KA26060BY / 077BY = 334mm (13.15'')



KL165B / KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

	KL165B	KA26085BV KA26065BV	KA26077BY KA26060BY
• Rear flange	615 503 107 0		615 503 107 0
• Auto-balancer		615 990 195 0	
• Rotating handle support kit		615 397 741 5	615 397 741 5
• Rotating exhaust kit		615 397 743 5	615 397 743 5
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		
• 1/2" air hose nipple for 15mm (5/8") ID hose		615 704 014 0	615 704 014 0
• Vibration-damping side handle		615 576 066 0	615 576 066 0

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 180MM (7'')		KL165B	KA26085BV KA26077BY
ITEM			
• Rear flange for KA26085BV			615 503 107 0
1 Soft Backing pad with nut 5/8", ø 180mm (7'') - (max. 8500 rpm)		615 990 133 0*	615 990 133 0*
• Pin wrench, 35mm (1-3/8'')		615 802 010 0	615 802 010 0
• Hex key 8mm (5/16'')		615 802 061 0	

*Spare Part: Nut 615 608 047 0

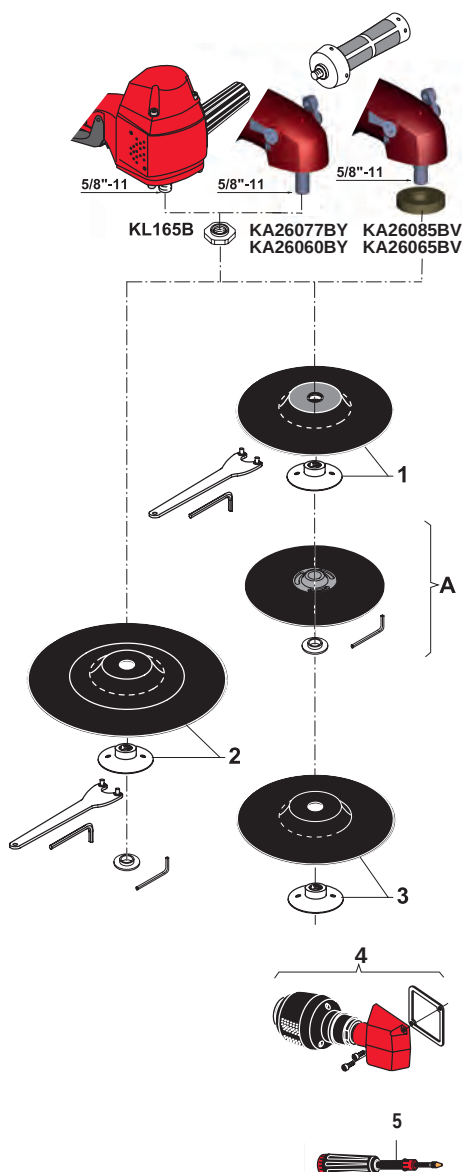
SANDING WITH SPIRACOO PAD Ø 180MM (7'')		KA26077BY
ITEM		
A Spiracool pad with nut 5/8", ø 180mm (7'') - (Max. 8500 rpm)		S091836
• Pin wrench 35mm (1-3/8'')		615 802 010 0

SANDING WITH STANDARD ABRASIVE DISC Ø 230MM (9'')		KA26065BV KA26060BY
ITEM		
• Rear flange for KA26065BV		615 503 107 0
2 Soft Backing pad with nut 5/8", ø 230mm (9'') - (max. 6500 rpm)		615 990 141 0
• Pin wrench, 35mm (1-3/8'')		615 802 010 0
• Hex key 8mm (5/16'')		615 802 061 0

*Spare Part: Nut 608.29

OTHER OPTIONAL ACCESSORIES

ITEM	KL165B	KA26..
3 Rigid backing pad with nut 5/8", ø 180mm (7'') - (max. 8500 rpm)	615 990 134 0	
4 Silencer kit	615 399 462 0	
5 Grease gun includes 24g (0.8 oz)		615 990 149 0
• Grease for bevel gear (1kg - 2.2 lb)		615 990 148 0



Sanders for abrasive discs

Ø 180mm (7") - Ø 230mm (9")

1200 and 2100 Watts (1.61 and 2.82 hp) - 6000 to 8500 rpm

Supplied with 5/8" threaded spindle only



A



B



C

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE MAX CAPACITY DxExd		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
											AT FREE SPEED		AT MAX SPEED				
			rpm	ø mm	ø in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.

VERTICAL SANDER

A	KL165B	615 170 011 0	6500	180	7	5/8-11	1200	1.61	2.3	5.1	6	13	25	53	1/2	13	1/2
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ANGLE SANDERS

B	KA26085BV	615 170 479 0	8500	180	7	5/8-11	2100	2.82	2.3	5.1	17	36	36	77	1/2	15	5/8
B	KA26065BV	615 170 480 0	6500	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	21	44	38	80	1/2	15	5/8

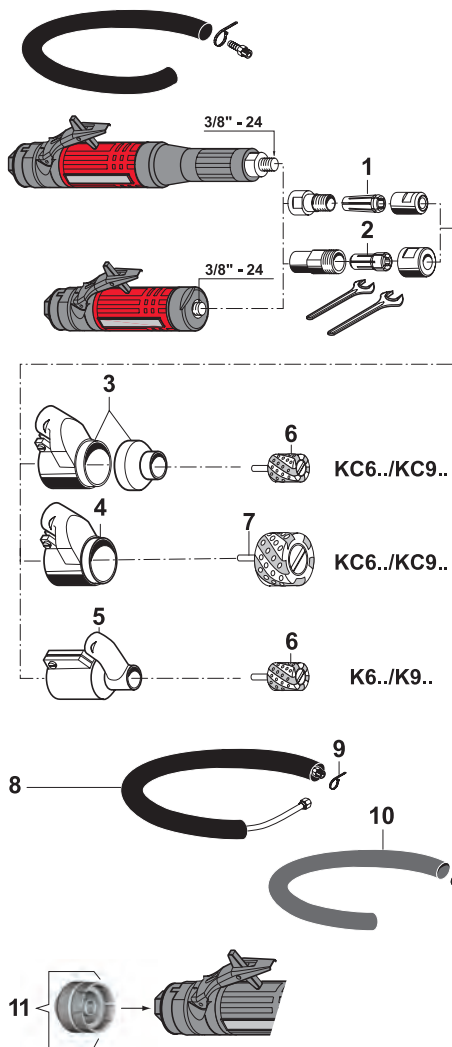
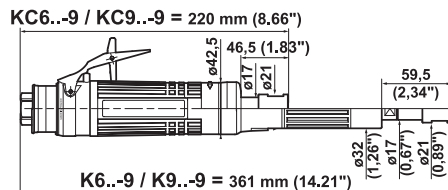
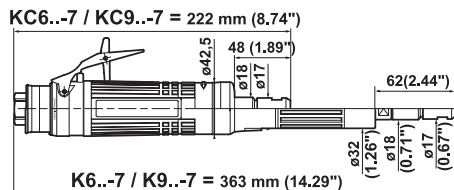
ANGLE SANDERS

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C	KA26077BY	615 170 481 0	7700	180	7	5/8-11	2100	2.82	2.3	5.1	16	33	32	69	1/2	15	5/8
C	KA26060BY	615 170 482 0	6000	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	18	38	37	77	1/2	15	5/8

5/8"-11 UNC

Accessories



K6... / K9... / KC6... / KC9...

ACCESSORIES INCLUDED

ITEM		COLLET CNOMO	COLLET SERIES 200
1	CNOMO collet $\varnothing$ 6mm	615 526 049 0	
2	Series 200 resilient collet, $\varnothing$ 5.55 to 6.35mm (1/4")		615 526 063 0
	• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
	• Clamp	615 873 415 0	615 873 415 0
	• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0	615 704 017 0
	• Flat wrench 14mm	615 801 005 0	615 801 005 0
	• Flat wrench 19mm (3/4")		615 801 076 0

OPTIONAL ACCESSORIES

ITEM		K6.../K9...	KC6.../KC9...
3	Suction cap		615 396 013 0
4	Suction cap		615 396 023 0
5	Suction cap	615 396 014 0	
6	Diamond cylinder $\varnothing$ 27mm (1.06"), shank $\varnothing$ 6mm (1/4") (20000 rpm max)	615 860 003 0	615 860 003 0
7	Diamond cylinder $\varnothing$ 52mm (2.05"), shank $\varnothing$ 6mm (1/4") (15000 rpm max)		615 860 004 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
8	Complete silencer kit	615 396 166 0
9	Clamp	615 873 115 0
10	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
11	Clippable silencer	615 396 655 0



Dust extraction systems for straight grinders

600 and 900 Watts (0.8 and 1.21 hp) - 12000 to 28000 rpm



A



B



B



615 396 014 0
Vacuum hose,
ID 25mm
(1")



615 396 013 0
Vacuum hose,
ID 32mm
(1-1/4")

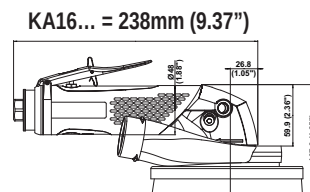
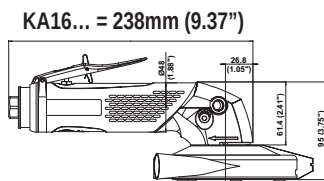


615 396 023 0
Vacuum hose,
ID 32mm
(1-1/4")

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER			SUCTION CAP ASSEMBLY	FREE SPEED	POWER		WEIGHT		AIR INLET THREAD
		CNOMO COLLET (-7)	SERIES 200 COLLET (-9)				W	hp	kg	lb.	
A	K628-	615 170 107 0	615 170 150 0	+	615 396 014 0	28000	600	0.80	1.3	2.9	3/8
A	K624-	615 170 106 0	615 170 151 0	+	615 396 014 0	24000	600	0.80	1.3	2.9	3/8
A	K922-	615 170 119 0	615 170 152 0	+	615 396 014 0	22000	900	1.21	1.4	3.1	3/8
A	K619-	615 170 105 0	615 170 153 0	+	615 396 014 0	19000	600	0.80	1.3	2.9	3/8
A	K918-	615 170 117 0	615 170 154 0	+	615 396 014 0	18000	900	1.21	1.4	3.1	3/8
A	K615-	615 170 104 0	615 170 155 0	+	615 396 014 0	15000	600	0.80	1.3	2.9	3/8
A	K915-	615 170 114 0	615 170 156 0	+	615 396 014 0	15000	900	1.21	1.4	3.1	3/8
A	K912-	615 170 110 0	615 170 157 0	+	615 396 014 0	12000	900	1.21	1.4	3.1	3/8
B	KC628-	615 170 126 0	615 170 158 0	+	615 396 013 0 or 615 396 023 0	28000	600	0.80	0.9	2.0	3/8
B	KC624-	615 170 125 0	615 170 159 0	+	615 396 013 0 or 615 396 023 0	24000	600	0.80	0.9	2.0	3/8
B	KC922-	615 170 130 0	615 170 160 0	+	615 396 013 0 or 615 396 023 0	22000	900	1.21	1.0	2.2	3/8
B	KC619-	615 170 124 0	615 170 161 0	+	615 396 013 0 or 615 396 023 0	19000	600	0.80	0.9	2.0	3/8
B	KC918-	615 170 129 0	615 170 162 0	+	615 396 013 0 or 615 396 023 0	18000	900	1.21	1.0	2.2	3/8
B	KC615-	615 170 123 0	615 170 163 0	+	615 396 013 0 or 615 396 023 0	15000	600	0.80	0.9	2.0	3/8
B	KC915-	615 170 128 0	615 170 164 0	+	615 396 013 0 or 615 396 023 0	15000	900	1.21	1.0	2.2	3/8
B	KC912-	615 170 127 0	615 170 165 0	+	615 396 013 0 or 615 396 023 0	12000	900	1.21	1.0	2.2	3/8

Accessories



KA16120. / KA16085. / KA16075. / KA16060.

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0
• Side handle	615 576 038 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0

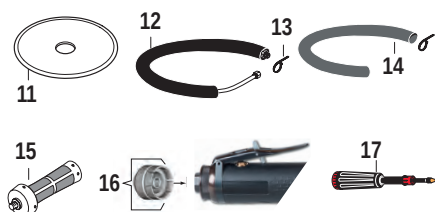
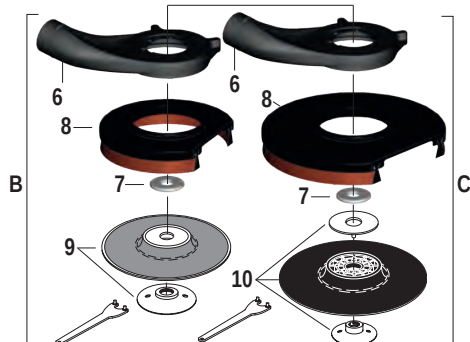
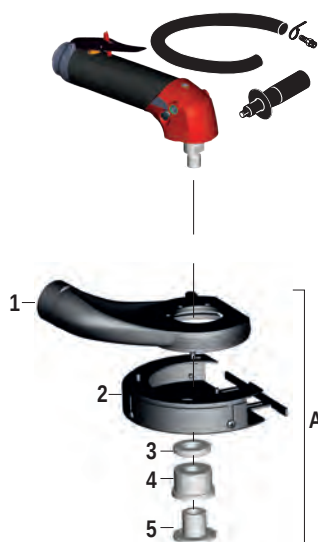
OPTIONAL ACCESSORIES

FOR COMPOSITE CUTTING		KA16120. / KA16085. KA16075. / KA16060
ITEM		Ø 127mm (5")
A	Dust extraction Kit for Diamond disc Ø 127mm (5")	615 397 830 0
1	Manifold cutting with screws	615 504 217 0
2	Goble cover plate complete	615 504 218 0
3	Spacer 6mm - Hole 14mm	615 643 092 0
3	Spacer 6mm - Hole 16mm	615 643 091 0
4	Spacer for M14 spindle	615 643 089 0
4	Spacer for 5/8" spindle	615 643 090 0
5	Flange nut M14	615 606 046 0
5	Flange nut 5/8"	615 606 045 0
•	Pin key	615 802 067 0

DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING		KA16120. / KA16085. KA16075. / KA16060	KA16085. KA16075. / KA16060
ITEM		Ø 127mm (5")	Ø 180mm (7")
B	Dust extraction Kit for disc Ø 127mm (5")	615 397 828 0	
C	Dust extraction Kit for disc Ø 180mm (7")		615 397 829 0
6	Suction cap	615 504 194 0	615 504 194 0
7	Washer	615 643 083 0	615 643 083 0
8	Skirt with brush	615 570 234 0	615 570 231 0
9	Ventilated backing pad Ø127mm (5") with nut M14 & 5/8" (max. 12000 rpm)	615 990 199 0	
10	Rigid backing pad Ø180mm (7") with nut M14 & 5/8" (max. 8500 rpm)		615 990 198 0
•	Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
11	Diamond disc Ø 127mm (5")
12	Complete silencer kit
13	Clamp
14	Reinforced cloth-lined exhaust hose L = 0.75m (30")
15	Vibration-damping side handle
16	Clippable silencer
17	Grease gun includes 24g (0.8oz)
•	Grease for bevel gear (1 kg - 2.2 lb)



Dust extraction systems for angle models

Ø 127mm (5") - Ø 180mm (7")

1350 to 1700 Watts (1.81 to 2.28 hp) - 6000 to 12000 rpm



A

Dust extraction casing for diamond disc Ø 127mm (5")
Vacuum hose ID 25mm (1")



B/C

Vacuum hose, ID 38mm (1-1/2")

B

Vacuum hose, ID 38mm (1-1/2")

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT		FREE SPEED rpm	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				Ø 127mm (5")	Ø 180mm (7")			W	hp	kg	lb.	

CUTTING Ø 127mm (5") - M14 Output

A	KA16120A	615 170 435 0	+	615 397 830 0		12000	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16085A	615 170 468 0	+	615 397 830 0		8500	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16075A	615 170 448 0	+	615 397 830 0		7500	M14x2	1500	2.01	1.39	3.0	3/8
A	KA16060A	615 170 449 0	+	615 397 830 0		6000	M14x2	1350	1.81	1.41	3.1	3/8

CUTTING Ø 127mm (5") - 5/8" Output

A	KA16120B	615 170 445 0	+	615 397 830 0		12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16085B	615 170 469 0	+	615 397 830 0		8500	5/8-11	1700	2.28	1.39	3.0	3/8
A	KA16075B	615 170 452 0	+	615 397 830 0		7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060B	615 170 453 0	+	615 397 830 0		6000	5/8-11	1350	1.81	1.41	3.1	3/8

CUTTING Ø 127mm (5") - 5/8" Output for USA Market only (to ANSI B186.1)

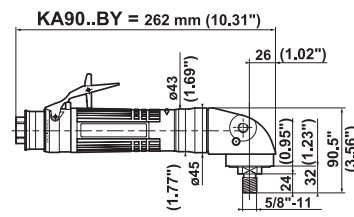
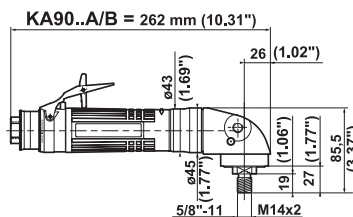
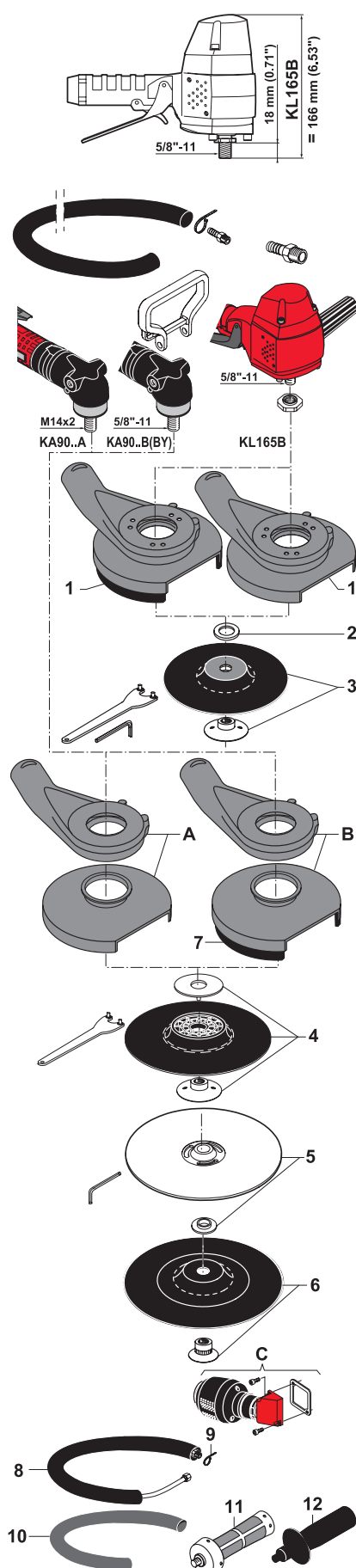
A	KA16120BY	615 170 447 0	+	615 397 830 0		12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16075BY	615 170 450 0	+	615 397 830 0		7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060BY	615 170 451 0	+	615 397 830 0		6000	5/8-11	1350	1.81	1.41	3.1	3/8

SANDING Ø 127 mm (5") & Ø 180 mm (7") - M14 & 5/8" Output

B	KA16120A	615 170 435 0	+	615 397 828 0		12000	M14x2	1700	2.28	1.39	3.0	3/8
B	KA16120B	615 170 445 0	+	615 397 828 0		12000	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16085A	615 170 468 0	+	615 397 828 0	615 397 829 0	8500	M14x2	1700	2.28	1.39	3.0	3/8
B/C	KA16085B	615 170 469 0	+	615 397 828 0	615 397 829 0	8500	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16075A	615 170 448 0	+	615 397 828 0	615 397 829 0	7500	M14x2	1500	2.01	1.39	3.0	3/8
B/C	KA16075B	615 170 452 0	+	615 397 828 0	615 397 829 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
B/C	KA16060A	615 170 449 0	+	615 397 828 0	615 397 829 0	6000	M14x2	1350	1.81	1.41	3.1	3/8
B/C	KA16060B	615 170 453 0	+	615 397 828 0	615 397 829 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8

5/8"-11 UNC

Accessories



KL165B / KA90.. A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

	KL165B	KA90..A KA90..B / BY
• Rear flange	615 503 107 0	
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0	
• Exhaust hose L= 1.5m (60")		615 875 113 0
• Clamp		615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose		615 704 017 0
• Support handle		615 576 069 0

OPTIONAL ACCESSORIES

FOR SANDING MATERIALS ITEM	KL165B non metallic Fibre disc Ø 180mm (7")	KL165B metallic Fibre disc Ø 180mm (7")
• Complete kit (including item 1-2-3)	615 399 364 0	615 399 365 0
1 Suction cap	615 399 359 0	615 399 360 0
2 Washer Z16U	615 642 050 0	615 642 050 0
3 Rigid backing pad Ø 180mm (7") with nut 5/8" (Max. 8500 rpm)	615 990 134 0	615 990 134 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0	615 802 061 0

FOR SANDING METALLIC MATERIALS ITEM	KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
A Suction cap	615 396 125 0	615 396 125 0
4 Rigid backing pad Ø 180mm (7") with nut M14 & 5/8" (Max. 8500 rpm)	615 990 134 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
5 Spiracool pad (Max. 8500 rpm)		S091836
6 Complete kit (Max. 7000 rpm)		K129587
• Hex key 8mm (5/16")		615 802 061 0

FOR SANDING NON METALLIC MATERIALS ITEM	KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
B Suction cap (including item 6-7)	615 396 126 0	615 396 126 0
4 Rigid backing pad Ø 180mm (7") with nut M14 & 5/8" (Max. 8500 rpm)	615 990 134 0	
7 Spare brush	615 570 233 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
5 Spiracool pad (Max. 8500 rpm)		S091836
6 Complete kit (Max. 7000 rpm)		K129587
• Hex key 8mm (5/16")		615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM	KL165B	KA90..A KA90..B / BY
C Silencer kit	615 399 462 0	
8 Complete silencer kit		615 396 166 0
9 Clamp		615 873 115 0
10 Reinforced cloth-lined exhaust hose L = 0.75m (30")		615 875 116 0
11 Vibration-damping side handle		615 576 066 0
12 Side handle		615 576 038 0
13 Clippable silencer		615 396 655 0



Dust extraction systems for vertical and angle sanders

Ø 180mm (7")

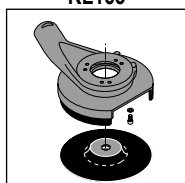
900 and 1200 Watts (1.21 and 1.61 hp) - 2000 to 6500 rpm

Supplied with M14 & 5/8" threaded spindle only



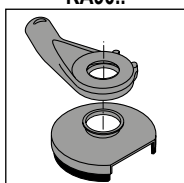
For standard abrasive disc for non metallic materials

KL165



615 399 364 0

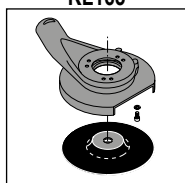
KA90..



615 396 126 0

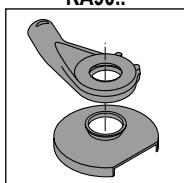
For standard abrasive disc for metallic materials

KL165



615 399 365 0

KA90..



615 396 125 0

Vacuum hose, ID 38mm (1-1/2")



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				Ø 180 mm (7")	rpm	in	W	hp	kg	lb.	in.

VERTICAL SANDER

A	KL165B	615 170 011 0	+	615 399 364 0 or 615 399 365 0	6500	5/8-11	1 200	1.61	2.3	5.1	1/2
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ANGLE SANDERS

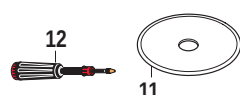
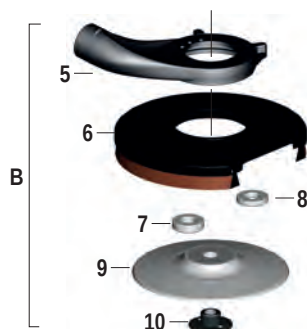
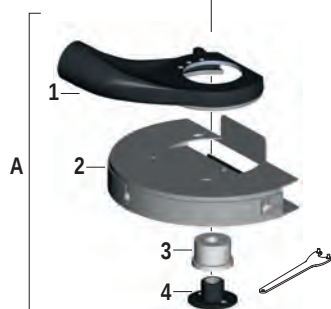
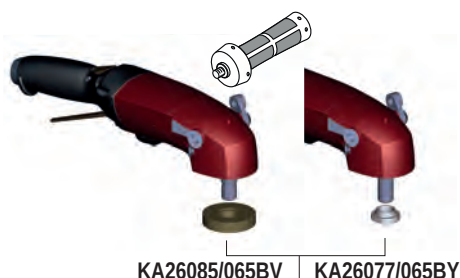
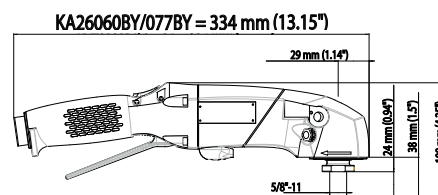
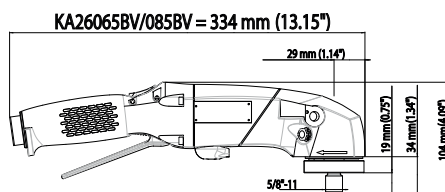
B	KA9030A	615 170 098 0	+	615 396 126 0 or 615 396 125 0	3000	M14x2	900	1.21	1.6	3.5	3/8
B	KA9030B	615 170 099 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8
B	KA9020A	615 170 096 0	+	615 396 126 0 or 615 396 125 0	2000	M14x2	900	1.21	1.6	3.5	3/8
B	KA9020B	615 170 097 0	+	615 396 126 0 or 615 396 125 0	2000	5/8-11	900	1.21	1.6	3.5	3/8

ANGLE SANDER for USA Market Only (to Ansi B186.1)

C	KA9030BY	615 170 309 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8
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5/8"-11 UNC

Accessories



KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

	KA26085BV KA26065BV	KA26077BY KA26060BY
• Auto-balancer	615 990 195 0	
• Rear flange		615 503 107 0
• Rotating handle support kit	615 397 741 5	615 397 741 5
• Rotating exhaust kit	615 397 743 5	615 397 743 5
• Vibration-damping side handle	615 576 066 0	615 576 066 0

OPTIONAL ACCESSORIES

FOR COMPOSITE CUTTING	KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
A Dust extraction Kit for Diamond disc ø 180mm (7")	615 397 844 0
1 Manifold cutting with screws	615 504 220 0
2 Goble cover plate complete	615 504 221 0
3 Spacer - hole 5/8"	615 643 090 0
4 Flange nut 5/8"	615 606 048 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING	KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
B Dust extraction Kit for disc ø 180mm (7")	615 397 843 0
5 Manifold with screws	615 504 219 0
6 Skirt with brush	615 570 231 0
7 Spacer 9mm	615 643 093 0
8 Spacer 6mm - Hole 16mm (5/8")	615 643 091 0
9 Rigid backing pad ø180mm (7") (max. 8500rpm)	615 990 200 0
10 Flange nut 5/8"	615 606 047 0
• Pin wrench, 35mm (1-3/8")	615 802 067 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
11 Diamond disc ø 180mm (7")	615 811 145 0
12 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0



Dust extraction systems for angle models

Ø 180mm (7")

2100 Watts (2.82 hp) - 6000 to 8500 rpm



A

Dust extraction casing for diamond disk Ø 180mm (7")
Vacuum hose, ID 38mm (1-1/2")



B

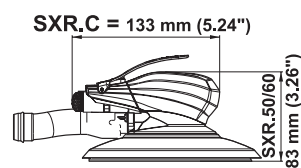
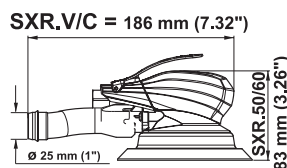
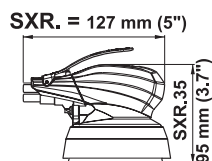
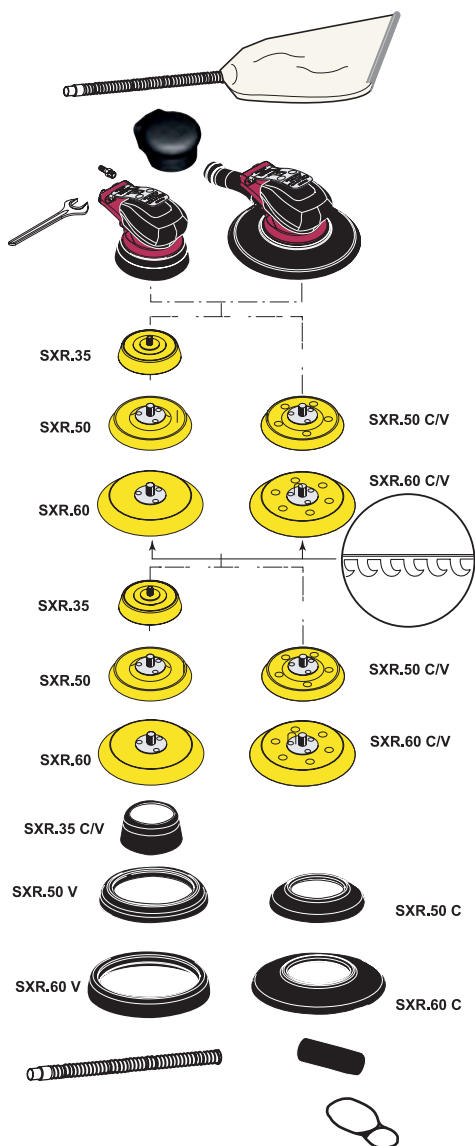
Vacuum hose, ID 38mm (1-1/2")

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				Ø 180mm (7")	rpm	in.	W	hp	kg	lb	in.
CUTTING Ø 180mm (7")											
A	KA26085BV	615 170 479 0	+	615 397 844 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26065BV	615 170 480 0	+	615 397 844 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2
CUTTING Ø 180mm (7") for USA Market only (to ANSI B186.1)											
A	KA26077BY	615 170 482 0	+	615 397 844 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26060BY	615 170 481 0	+	615 397 844 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2
SANDING Ø 180mm (7")											
B	KA26085BV	615 170 479 0	+	615 397 843 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26065BV	615 170 480 0	+	615 397 843 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2
SANDING Ø 180mm (7") for USA Market only (to ANSI B186.1)											
B	KA26077BY	615 170 482 0	+	615 397 843 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26060BY	615 170 481 0	+	615 397 843 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2

5/8"-11 UNC

Accessories



SXR.35. / SXR.50. / SXR.60.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXRA..V and SXR.B..V version	615 396 264 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 89mm (3.5") - 80gr - SXR(.)35(.)	615 990 158 0	-
• Pad ø 127mm (5") - 100gr - SXR(.)50	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16"-24	FOR SELF- ADHESIVE ABRASIVE	FOR SELF- ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 89mm (3.5") - 80gr - SXR(.)35(.)	615 990 163 0	-
• Pad ø 127mm (5") - 100gr - SXR(.)50	615 990 161 0	615 990 162 0
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

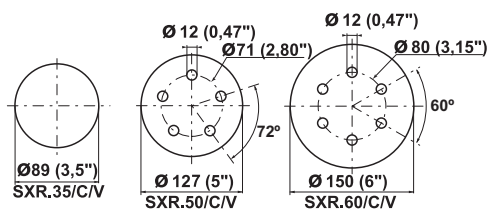
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)35(.)	615 350 110 0
• Vacuum skirt for SXR(.)50C	615 350 107 0
• Vacuum skirt for SXR(.)60C	615 350 106 0
• Vacuum skirt for SXR(.)50V	615 350 103 0
• Vacuum skirt for SXR(.)60V	615 350 102 0

ADAPTOR	
• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

HOSE	
• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0

BAIL HOOK	
• Bail hook	615 571 060 0

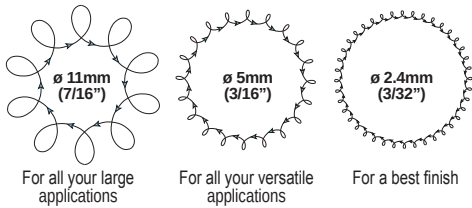
PAD DIMENSIONS



Random orbital sanders for abrasive discs

Ø 89mm (3.5") - Ø 127mm (5") - Ø 150mm (6")

210 Watts (0.3 hp) - 12000 rpm



SXR(.)35



SXR(.)35C



SXR(.)35V



SXR(.)50



SXR(.)50C



SXR(.)50V



SXR(.)60



SXR(.)60C

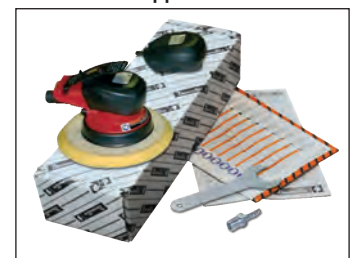


SXR(.)60V

HOW TO SELECT YOUR SX SANDER --- Eg: SXRA35C - SXR model / orbit Ø 2.4mm (3/32") / pad Ø 89mm (3.5") / with dust extraction

SX : Name of the range
R : random orbital sander
A : orbit Ø 2.4mm (3/32") / **B** : orbit Ø 5mm (3/16") / **C** : orbit Ø 11mm (7/16")
35 : pad Ø 89mm (3.5") / **50** : pad Ø 127mm (5") / **60** : pad Ø 150mm (6")
C : external vacuum / **V** : self vacuum / **-** : non-vacuum

Supplied kit



*Sanders equipped with PSA pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD		HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.	

RANDOM ORBITAL SANDERS, ORBIT Ø 11mm (7/16")

		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
Ø 150	6	SXRC60	615 170 462 0	SXRC60C	615 170 463 0	SXRC60V	615 170 464 0	0.88	1.94	8.0	16.6	1/4	6	1/4	

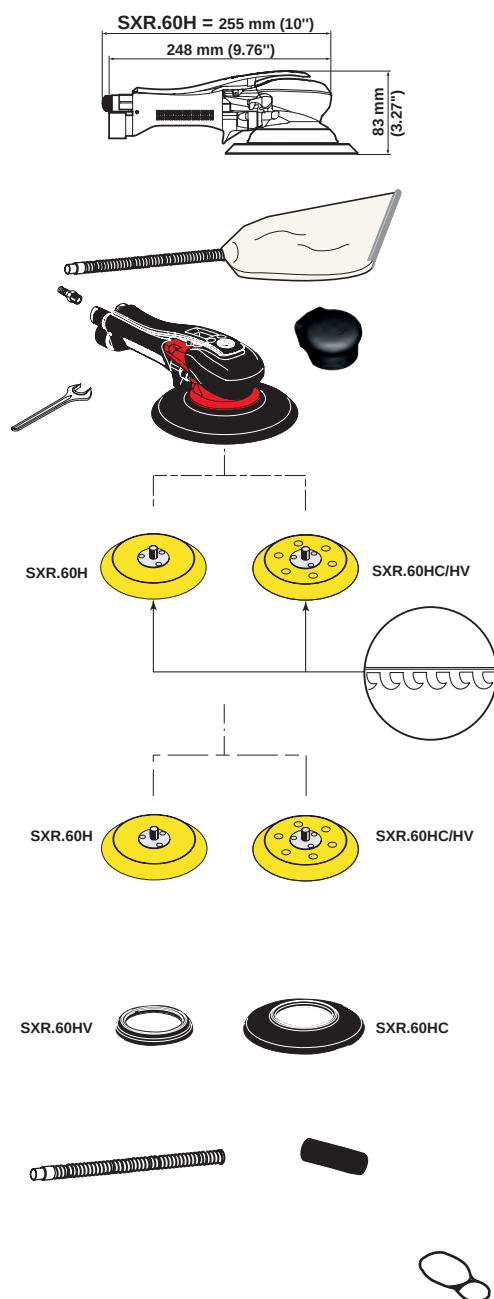
RANDOM ORBITAL SANDERS, ORBIT Ø 5mm (3/16")

		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
Ø 89	3.5	SXRB35	615 170 209 0	SXRB35C	615 170 215 0	SXRB35V	615 170 212 0	0.8	1.7	8.0	16.6	1/4	6	1/4	
Ø 127	5	SXRB50	615 170 210 0	SXRB50C	615 170 216 0	SXRB50V	615 170 213 0	0.8	1.7	8.0	16.6	1/4	6	1/4	
Ø 127	5	SXRB50*	615 170 300 0					0.8	1.7	8.0	16.6	1/4	6	1/4	
Ø 150	6	SXRB60	615 170 211 0	SXRB60C	615 170 217 0	SXRB60V	615 170 214 0	0.8	1.7	8.0	16.6	1/4	6	1/4	
Ø 150	6	SXRB60*	615 170 317 0					0.8	1.7	8.0	16.6	1/4	6	1/4	

RANDOM ORBITAL SANDERS, ORBIT Ø 2.4mm (3/32")

		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
Ø 89	3.5	SXRA35	615 170 218 0	SXRA35C	615 170 224 0	SXRA35V	615 170 221 0	0.8	1.7	8.0	16.6	1/4	6	1/4	
Ø 127	5	SXRA50	615 170 219 0	SXRA50C	615 170 225 0	SXRA50V	615 170 222 0	0.8	1.7	8.0	16.6	1/4	6	1/4	
Ø 150	6	SXRA60	615 170 220 0	SXRA60C	615 170 226 0	SXRA60V	615 170 223 0	0.8	1.7	8.0	16.6	1/4	6	1/4	

Accessories



SXR.60H.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXR.60HV version	615 396 264 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16"-24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

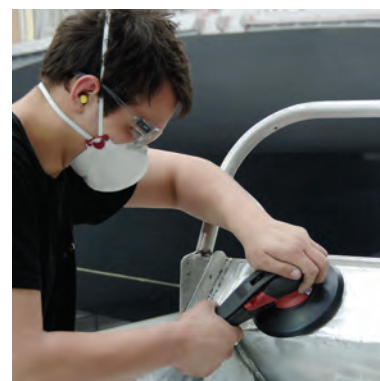
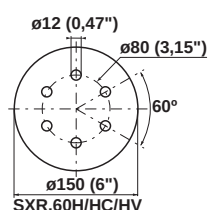
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)60HC	615 350 106 0
• Vacuum skirt for SXR(.)60HV	615 350 102 0

ADAPTOR	
• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

HOSE	
• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0

BAIL HOOK	
• Bail hook	615 571 060 0

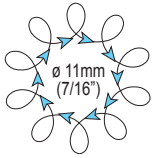
PAD DIMENSIONS



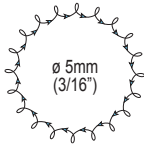
Random orbital sanders for abrasive discs

Ø 150mm (6")

210 Watts (0.3 hp) - 12000 rpm



For all your large applications



For all your versatile applications



SXR.60H

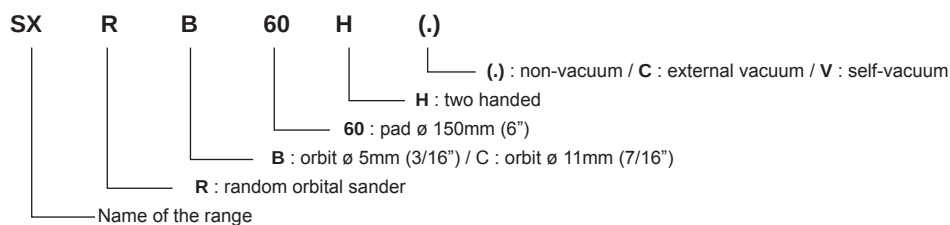


SXR.60HC



SXR.60HV

HOW TO SELECT YOUR SX SANDER ---- SXR60H - SXR model / orbit 5mm (3/16") / pad Ø 150mm (6") / Two handed / non vacuum



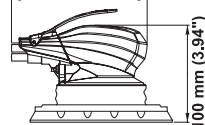
*Sanders equipped with PSA pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

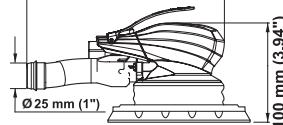
PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
RANDOM ORBITAL SANDERS, ORBIT Ø 11mm (7/16")														
			NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM							
Ø 150	6	SXRC60H	615 170 465 0	SXRC60HC	615 170 466 0	SXRC60HV	615 170 467 0	0.88	1.94	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT Ø 5mm (3/16")														
			NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM							
Ø 150	6	SXRB60H	615 170 355 0	SXRB60HC	615 170 362 0	SXRB60HV	615 170 359 0	0.9	2.0	8.0	16.6	1/4	6	1/4
Ø 150	6	SXRB60H*	615 170 356 0					0.9	2.0	8.0	16.6	1/4	6	1/4

Accessories

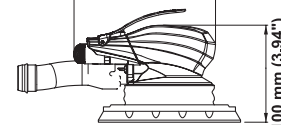
SXO.. = 127 mm (5")



SXO..V = 186 mm (7.32")



SXO..C = 133 mm (5.24")



SXOAR1. / SXOAT1.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXOAR..V version	615 396 264 0

PAD FOR HOOK & LOOP ABRASIVE

	PART NO.
• Pad 80x130mm (3x5") for SXOAR..	615 350 121 0
• Pad 147x100mm (6x4") for SXOAT1..	615 350 122 0

OPTIONAL ACCESSORIES

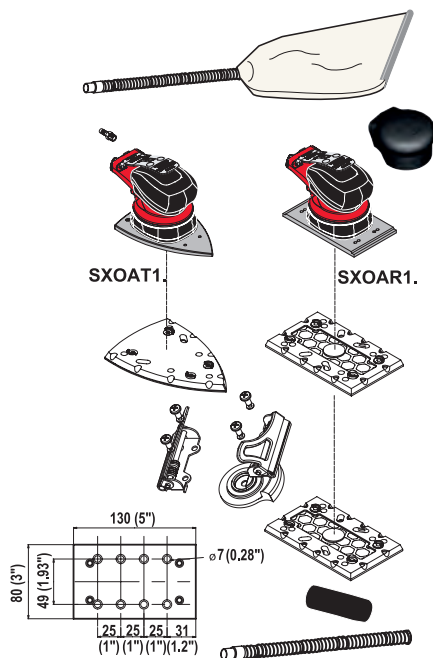
	PART NO.
• Paper holder kit	615 396 413 0
• Pad 80x130mm (3x5") for SXOAR..	615 350 123 0

ADAPTOR

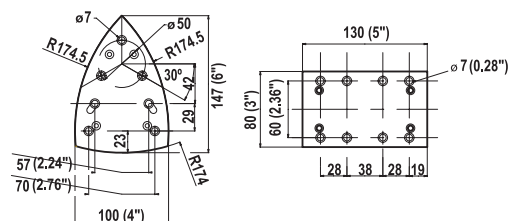
• Vacuum hose adaptor $\varnothing$ 25mm (1") / $\varnothing$ 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor $\varnothing$ 25mm (1") / $\varnothing$ 28mm (1-1/8")	615 804 448 0

HOSE

• Dust extraction hose $\varnothing$ 25mm (1") L = 1.5m (60")	615 396 263 0
---	---------------



PAD DIMENSIONS



Orbital sanders for abrasive sheets 80 x 130mm (3"x 5") - 147 x 100mm (6"x 4")

210 Watts (0.3 hp) - 10000 rpm



S XOAR1



S XOAR1C



S XOAR1V



S XOAT1



S XOAT1C

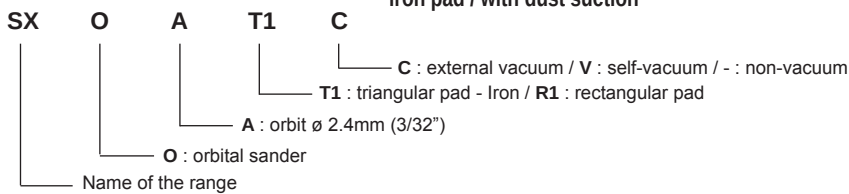


S XOAT1V

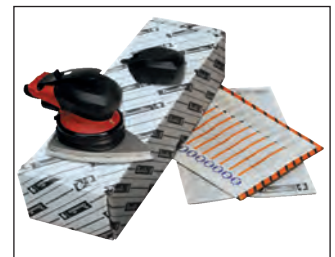


S XOAR1 equipped with paper holder kit P.N 615 396 413 0

HOW TO SELECT YOUR SXO SANDER — Eg: SXOAT1C - SXO model / orbit ø 2.4mm (3/32") iron pad / with dust suction



Supplied kit



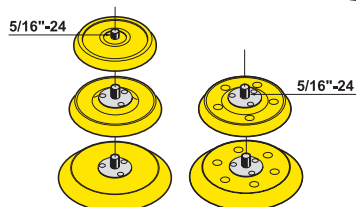
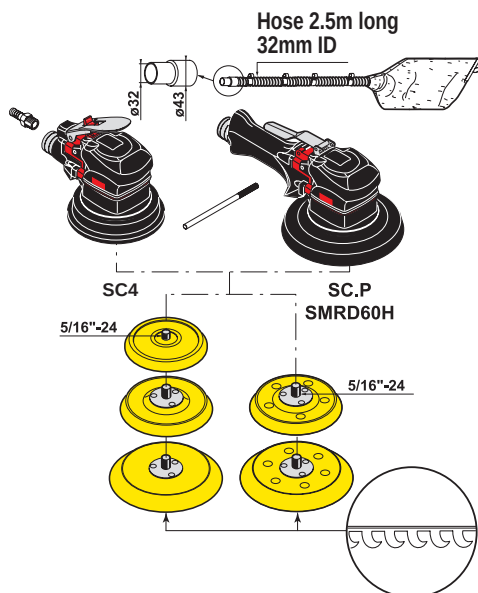
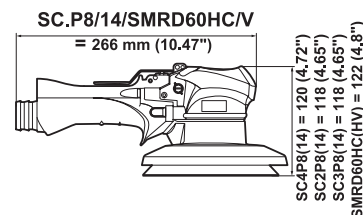
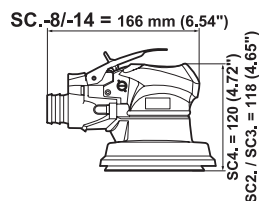
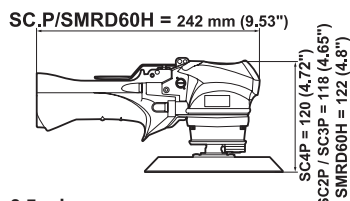
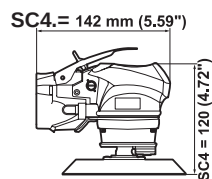
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL		PART NUMBER		MODEL		PART NUMBER		MODEL		PART NUMBER		WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD		HOSE INT Ø	
mm	in.													kg	lb	l/s	cfm	in.		mm	in.

ORBITAL SANDERS, ORBIT ø 2.4mm (3/32")

		NON-VACUUM			EXTERNAL VACUUM			SELF VACUUM												
80x130	3x5	S XOAR1	615 170 233 0	S XOAR1C	615 170 237 0	S XOAR1V	615 170 235 0	1.0	2.2	8.0	16.6	1/4	6	1/4						
147x100	6x4	S XOAT1	615 170 234 0	S XOAT1C	615 170 238 0	S XOAT1V	615 170 236 0	1.0	2.2	8.0	16.6	1/4	6	1/4						

Accessories



SC4.. / SC..P / SMRD60..

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 8mm (5/32") ID hose	615 704 019 0
• Clamping lever	615 595 202 0
• Complete dust extraction kit for version (SC.-14/SMRD60HV)	615 399 471 0

PADS:
Thread 5/16" - 24

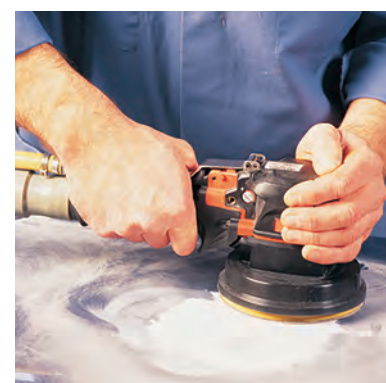
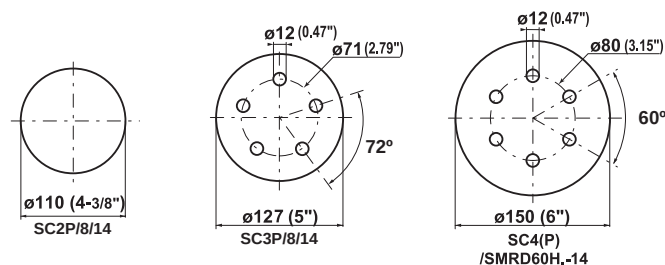
	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (-8) OR (-14) (C) OR (V) WITH HOLES
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 102 0	-
• Pad ø 127mm (5") - SC3P	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - SC4(P) - SMRD60H.	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS:
Thread 5/16" - 24

	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE ABRASIVE WITH HOLES (-8) OR (-14) (C) OR (V)
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 101 0	-
• Pad ø 127mm (5") - SC3P	615 990 111 0	615 990 110 0
• Pad ø 150mm (6") - SC4(P) - SMRD60H.	615 990 119 0	615 990 118 0

PAD DIMENSIONS

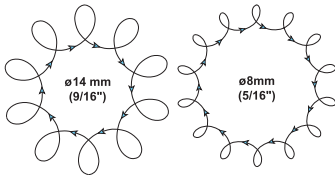


Random orbital sanders for abrasive discs

Ø 110mm (4-3/8") - Ø 127mm (5")

Ø 150mm (6")

375 Watts (0.5 hp) - 10000 rpm



SC4



SC4P



SC4-8



SC4P8 - SMRD60HC



SMRD60H



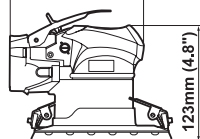
SC4P14 - SMRD60HV

Caution: comply with the speeds recommended by component and abrasive manufacturers.

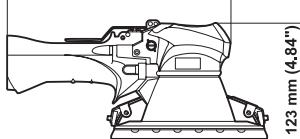
PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT. Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
SANDERS WITH PALM GRIP, ORBIT Ø 8mm (5/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
Ø 150	6	SC4	615 170 081 0	SC4-8	615 170 093 0	SC4-14	615 170 087 0	1.3	2.86	11	23	1/4	8	5/16
SANDERS WITH HANDLE GRIP, ORBIT Ø 8mm (5/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
Ø 110	4-3/8	SC2P	615 170 077 0	SC2P8	615 170 089 0	SC2P14	615 170 083 0	1.2	2.64	11	23	1/4	8	5/16
Ø 127	5	SC3P	615 170 079 0	SC3P8	615 170 091 0	SC3P14	615 170 085 0	1.3	2.86	11	23	1/4	8	5/16
Ø 150	6	SC4P	615 170 078 0	SC4P8	615 170 090 0	SC4P14	615 170 084 0	1.4	3.08	11	23	1/4	8	5/16
LARGE ORBIT SANDERS WITH HANDLE GRIP, ORBIT Ø 14mm (9/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
Ø 150	6	SMRD60H	615 170 280 0	SMRD60HC	615 170 281 0	SMRD60HV	615 170 282 0	1.3	2.86	11	23	1/4	8	5/16

Accessories

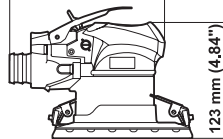
SV3 = 142mm (5.59")



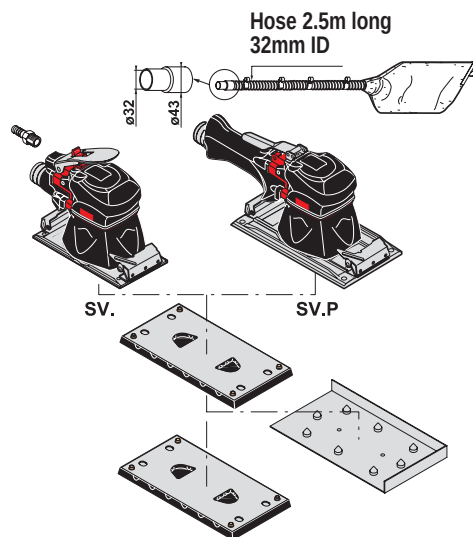
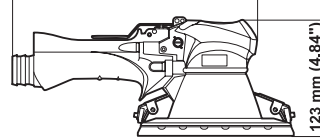
SV.P = 242 mm (9.53")



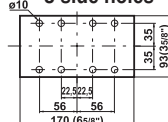
SV.-8/-14 = 166 mm (6.54")



SV.P8/14 = 266 mm (10.47")



8 side holes



SV.. / SV..P

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
• Complete dust extraction kit for version (-14)	615 399 471 0

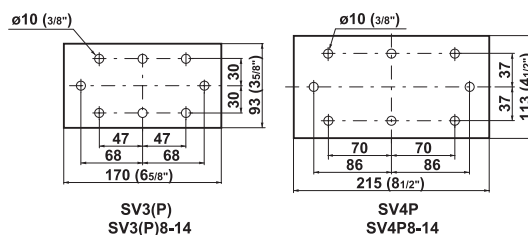
PADS AND DRILLING PLATE

	PAD	DRILLING PLATE FOR RELEASE (-8) OR (-14)
• Pad 170x93mm (6-5/8" x 3-5/8") - SV3(P)	615 350 018 0	615 990 094 0
• Pad 215x113mm (8-1/2" x 4-1/2") - SV4P	615 350 019 0	615 990 095 0

OPTIONAL ACCESSORIES

	PART NO.
• Pad 170x93mm (6-5/8" x 3-5/8") - 8 side holes SV3(P)	615 350 057 0

PAD DIMENSIONS



Orbital sanders for abrasive sheets

170 x 93mm (6-5/8"x 3-5/8") - 215 x 113mm (8-1/2"x 4-1/2")

375 Watts (0.5 hp) - 8000 rpm



SV3



SV3P



SV3-8



SV3P8

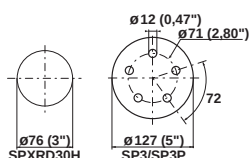
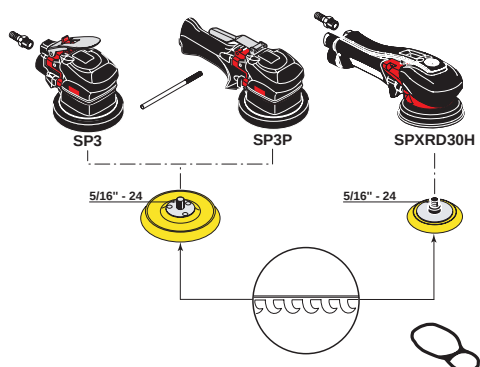
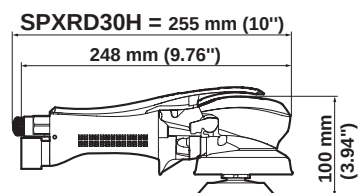
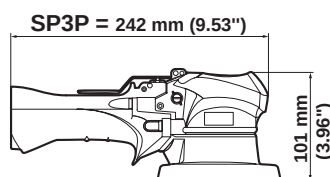
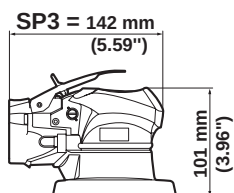


SV3P14

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PAR NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
SANDERS WITH PALM GRIP, ORBIT Ø 5mm (3/16")														
			NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM							
170x93	65/8 x 35/8	SV3	615 170 066 0	SV3-8	615 170 074 0	SV3-14	615 170 070 0	1.7	3.74	11	23	1/4	8	5/16
SANDERS WITH HANDLE GRIP, ORBIT Ø 5mm (3/16")														
			NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM							
170x93	65/8 x 35/8	SV3P	615 170 067 0	SV3P8	615 170 075 0	SV3P14	615 170 071 0	1.8	3.96	11	23	1/4	8	5/16
215x113	8 1/2 x 4 1/2	SV4P	615 170 068 0	SV4P8	615 170 076 0	SV4P14	615 170 072 0	1.9	4.19	11	23	1/4	8	5/16

Accessories



SP3 / SP3P / SPXRD30H

ACCESSORIES INCLUDED

	SP3/SP3P	SPXRD30H
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0	
• 1/4" air hose nipple for 6mm (1/4") ID hose		615 705 009 0
• Clamping lever	615 595 202 0	
• Small grip (medium-size grip fitted on sander)		615 303 109 0
• Bail hook		615 571 060 0

PADS: Thread 5/16"-24

- Pad Ø 127mm (5") for SP3 / SP3P
- Pad Ø 76mm (3") for SPXRD30H

FOR HOOK & LOOP ABRASIVE

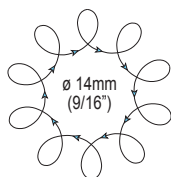
- 615 990 123 0
- 615 990 178 0



Random orbital polishers

Ø 76mm (3") - Ø 127mm (5")

210 and 375 Watts (0.3 and 0.5 hp) - 10000 and 12000 rpm



SP3



SP3P

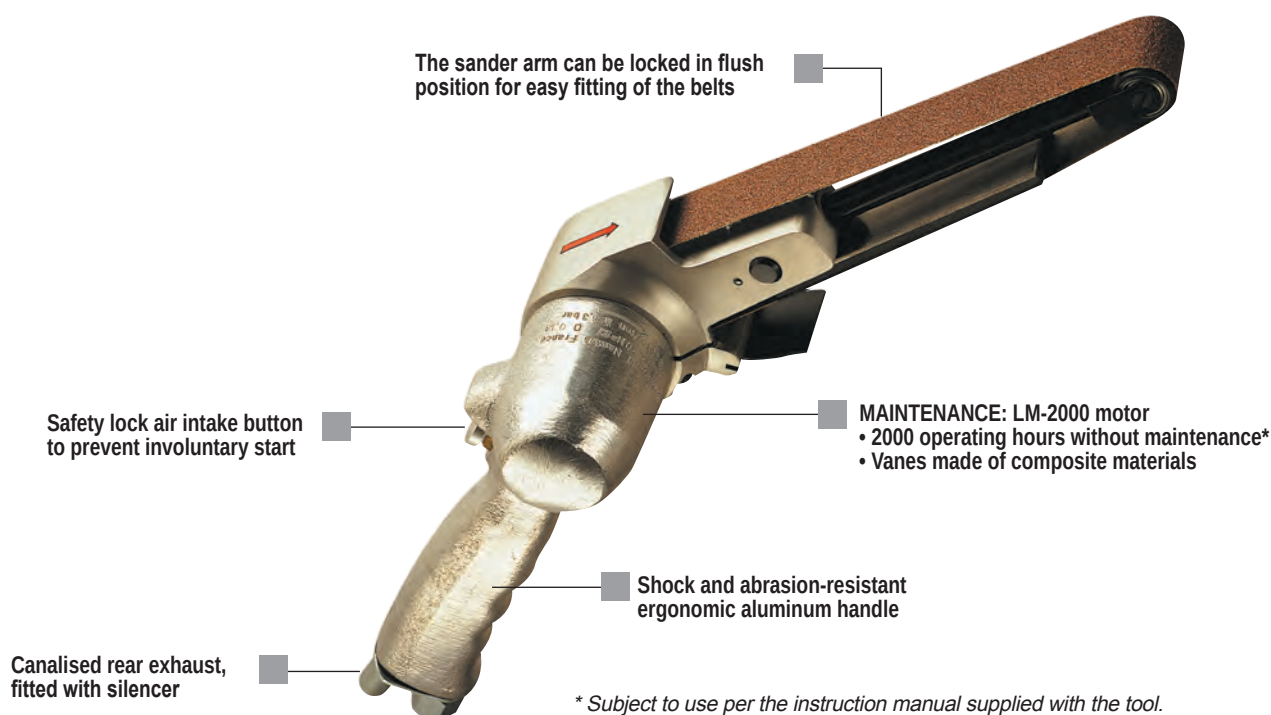


SPXRD30H

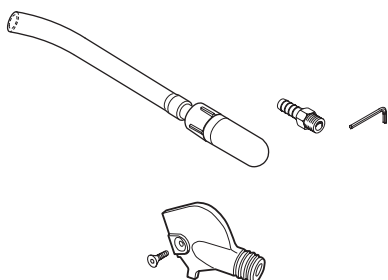
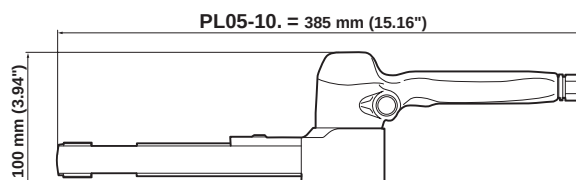
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.			kg	lb	l/s	cfm		in.	mm
POLISHER WITH PALM GRIP, ORBIT Ø 14mm (9/16")										
		NON-VACUUM								
Ø 127	5	SP3	615 170 198 0	1.2	2.64	11	23	1/4	8	5/16
POLISHER WITH HANDLE GRIP, ORBIT Ø 14mm (9/16")										
		NON-VACUUM								
Ø 76	3	SPXRD30H	615 170 332 0	0.9	1.98	11	23	1/4	8	5/16
Ø 127	5	SP3P	615 170 197 0	1.3	2.86	11	23	1/4	8	5/16

Belt sanders



Accessories



PL05-10D / PL05-10E / PL05-10F

ACCESSORIES INCLUDED

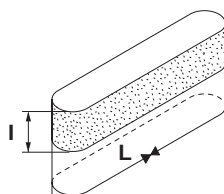
	PART NO.
• Exhaust hose	615 396 022 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Hex. key 4 mm	615 802 054 0

OPTIONAL ACCESSORIES

	PART NO.
• Suction cap for 32mm (1-1/4") ID vacuum hose	321003
• Screw FHc M4x10	615 616 118 0

OPTIONAL ACCESSORIES

COATED ABRASIVE BELTS					
L x l		GRIT NUMBER			
mm	in.	P40	P60	P80	P100
480 x 16	18-7/8" x 5/8		615 811 218 0	615 811 219 0	615 811 220 0
480 x 20	18-7/8" x 25/32	615 811 223 0	615 811 224 0	615 811 225 0	615 811 226 0
480 x 25	18-7/8" x 63/64	615 811 230 0			
L x l		GRIT NUMBER			
mm	in.	P120	P150	P180	P240
480 x 16	18-7/8" x 5/8	615 811 221 0	615 811 222 0		
480 x 20	18-7/8" x 25/32	615 811 227 0	615 811 228 0	615 811 229 0	
480 x 25	18-7/8" x 63/64		615 811 235 0	615 811 236 0	

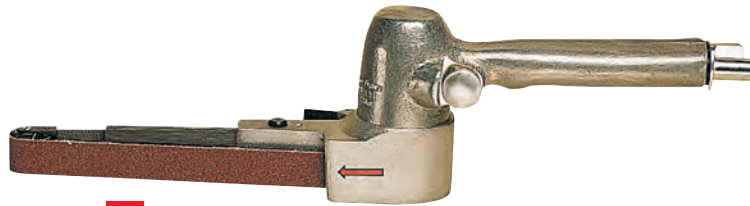


Belt sanders

300 Watts (0.4 hp) - 16000 rpm



A



B



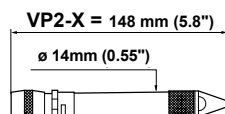
C



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	BELT SIZE		POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD	HOSE INT. Ø	
			rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.
A	PL05-10D	615 170 131 0	16000	480 x 16	18-7/8 x 5/8	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4
B	PL05-10E	615 170 132 0	16000	480 x 20	18-7/8 x 25/32	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4
C	PL05-10F	615 170 133 0	16000	480 x 25	18-7/8 x 63/64	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4

Accessories



VP2-X

ACCESSORIES INCLUDED

	PART NO.
• Air Hose - 3.2mm bore - Length 2m (78.7") - 1/8" - 1/4" BSP	75902
• Tungsten carbide tipped needle	63213
• Key	63533

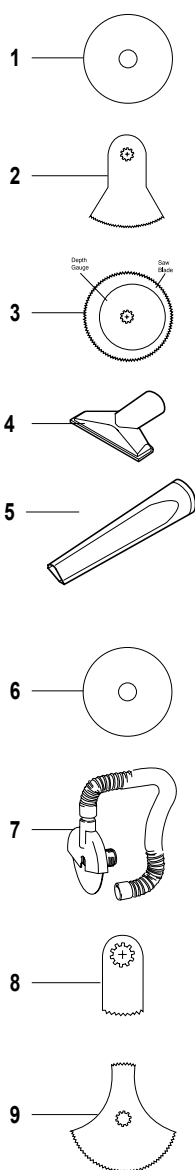
D144-T-.. / D172-L / AV101

ACCESSORIES INCLUDED

ITEM		APPLICATION	PART NO.		
			D144-T	D172-L	AV101
	• Spindle Wrench		164433	15533	
	• Clamp Nut Wrench		29443		
	• Hex. Key – 4mm (5/32") A/F		204903	204903	
1	Saw Blade – diamond coated 64mm (2.5") dia.	Fibreglass	32732		
1	Saw Blade – 80 teeth 45mm (1.77") dia.	Soft Steel <1.2mm (3/64")			
1	Saw Blade 64mm (2.5") dia.	Plastics		90762	
1	Saw Blade – teflon coated 80mm (3.15") dia.	Plastics		90772	
2	Saw Blade 50.8mm (2") radius x 50mm (1.97") wide	Soft Wood		90832	
3	Depth Gauge			27262	
4	Upholstery Nozzle				106443
5	Crevice Nozzle				106533

OPTIONAL ACCESSORIES

ITEM		APPLICATION	PART NO.	
			D144-T	D172-L
1	Saw Blade – 80 teeth 45mm (1.77") dia	Soft Steel <1.2mm (3/64")		76362
6	Saw Blade 64mm (2.5") dia.	Wood		34252
6	Saw Blade 50mm (1.97") dia.	Soft Steel >1.2mm (3/64") max depth 7mm		
6	Saw Blade 50mm (1.97") dia.	Hard Steel <1.2mm (3/64") max depth 10mm (3/8")		
6	Saw Blade 50mm (1.97") dia.	Aluminium max depth 10mm (3/8")		
7	Dust Extraction Hood includes 2m hose – 32mm (1.26") ID			78472
6	Saw Blade – diamond tipped 64mm (2.5") dia.	Fibreglass		16962
6	Saw Blade – diamond tipped 1.2mm (3/64") tooth pitch - 64mm (2.5") dia.	Fibreglass		90722
6	Saw Blade – diamond tipped 1.2mm (3/64") tooth pitch - 80mm (3.15") dia.	Fibreglass		90732
6	Saw Blade – 1.5mm (0.06") tooth pitch 51mm (2") dia.	Soft Wood		90782
6	Saw Blade – 1.8mm (0.07") tooth pitch 64mm (2.5") dia.	Soft Wood		90792
6	Saw Blade – 1.5mm (0.06") tooth pitch 76mm (3") dia.	Soft Wood		90802
8	Saw Blade 22mm (0.87") radius x 15mm (19/32") wide	Soft Wood		90822
9	Saw Blade 63.5mm (2.5") dia. 60mm (2.36") + 16mm (5/8") segments	Soft Wood		90842

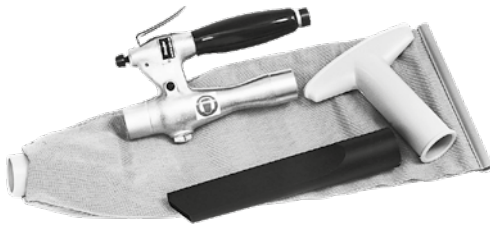




A



B



C



D

PIC REF	MODEL	PART NUMBER	BLOWS PER MINUTE	WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD	HOSE INT. Ø	
			Blows/min	kg	lb.	l/s	cfm	in.	mm	in.

AIR SCRIBE

A	VP2-X	671094	11400	0.1	0.2	0.9	1.9	1/8	3.2	1/8
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PIC REF	MODEL	PART NUMBER	FREE SPEED	OSCILLATING FREQUENCY	BLADE Ø		WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET THREAD	HOSE INT. Ø	
			rpm	c/min	mm	in.	kg	lb.	mm	in.	l/s	cfm	in.	mm	in.

FIBREGLASS SAW - capacity 13mm (1/2") depth

B	D144	615 170 526 0	3100		64	2.5	0.83	1.83	214	8.43	9.4	19.9	1/4 BSP	10	3/8
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OSCILLATING SAW

D	D172	615 170 527 0	-	20000	80	3.2	0.76	1.67	265.2	10.44	9.5	20	1/4 BSP	10	3/8
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VACUUM CLEANER

C	AV101	128534	-	-	-	-	0.7	1.54	202	7.95	5.9	12.5	1/4 BSP	6	1/4
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Desoutter Air Line Accessories are specially developed to be used with Desoutter Tools & Equipments.

Desoutter Air Line Accessories can also be used with other pneumatic products.

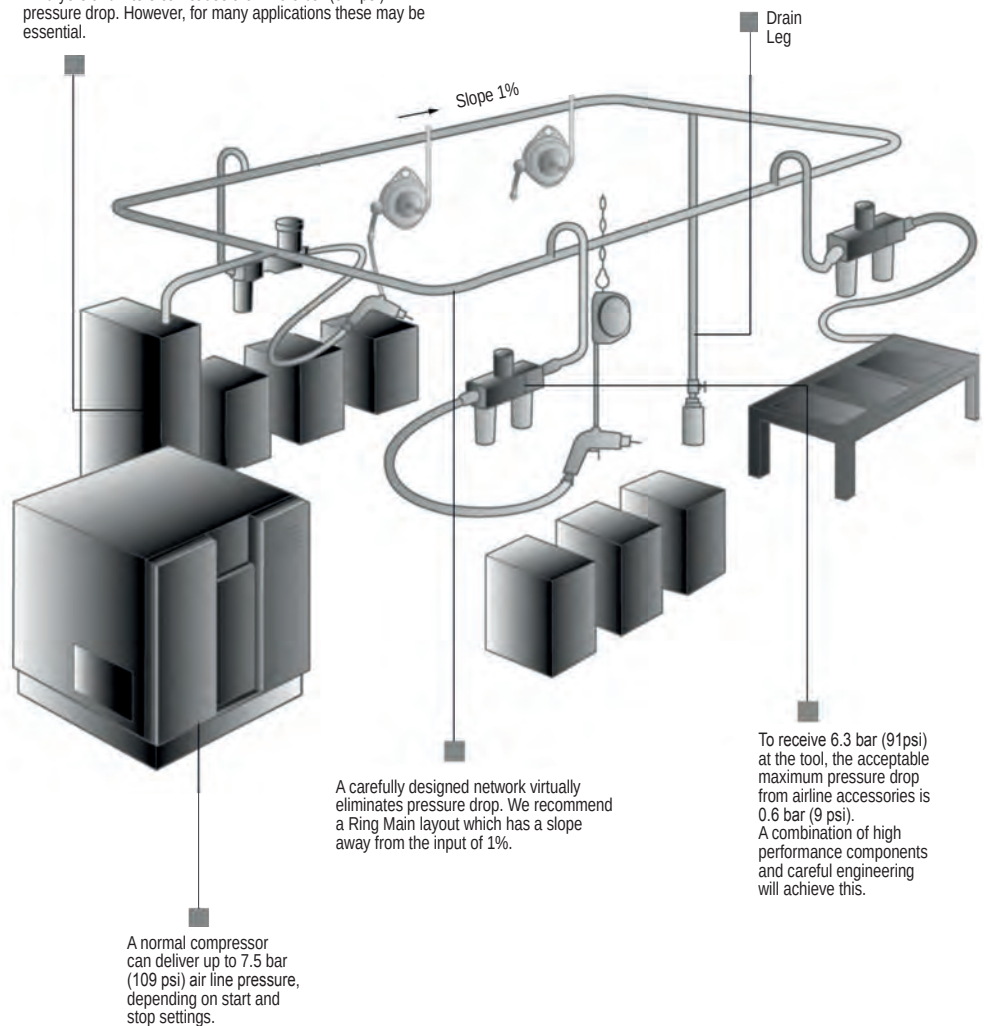
All accessories can be used for other applications with any pneumatic equipments.

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.



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.

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 MAX	POLYURETHAN	RUBBER
Flexibility	++	++	+
Lightweight	++	++	+
Outdoor	+++	+	+++
Spark resistant	+++	-	+++
Rough environment	+++	++	+++
Antistatic	+++	-	+++
Temperature range	-40 to +194F° -40 to +90°C	-22 to +176F° -30 to +80°C	-40 to +194F° -40 to +90°C

At recommended air flow the pressure drop is 0.2 bar (2.9 PSI) with a hose length of 5m (16ft).
Recommendation is to upgrade one size in diameter for every 10m (32.8ft) 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 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 20M / 65.6FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
3/8	9.5x12.5	65.6	20		27.6	13	6.4	2.9	894 016 992 1
1/2	13x18.6	65.6	20	232 (16)	44.5	21	8.6	3.9	615 810 900 0
5/8	16x22.5	65.6	20	232 (16)	91.1	43	10.6	4.8	615 810 901 0
3/4	20x26.1	65.6	20	232 (16)	159	75	11.9	5.4	615 810 902 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 20M / 65.6FT		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 use

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



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 25M / 82FT		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	LENGHT		PART NUMBER		HOSE MATERIAL
in. ID	mm	in.	ft	m	NPT	BSP	
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		615 804 629 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

EFFI MAX WHIPS

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



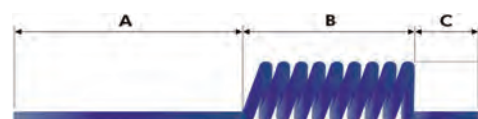
HOSE DIAM.		THREAD SIZE		HOSE LENGHT		PART NUMBER	
in.	mm	in.	ft	m	NPT	BSP	
1/4	6.5	1/4	2.0	0.6			
3/8	10	1/4	2.0	0.6	CA047270	615 811 192 0	
1/2	13	3/8	2.0	0.6	CA049271	615 811 264 0	
1/2	13	1/2	2.0	0.6	CA049270	615 811 193 0	
5/8	16	1/2	2.0	0.6	615 811 266 0	615 811 265 0	

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			PARTNUMBER	
in. ID	mm	in.	ft	m	A	B	C		NPT	BSP
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



AIR FLEX

AIR FLEX RANGE



THE NEW AIR FLEX MAKES ALL RIGID HOSES FLEXIBLE AND MULTI-DIRECTIONAL.

Easy: less effort due to hose rigidity, makes work easier in hard to reach areas. Less wear: no more premature hose wear. Comfort and safety: no twisting, the hose remains in the ideal working position and lower the risk of tendinitis.

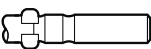
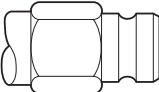
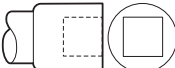
AIR FLEX

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

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



Fastening accessories

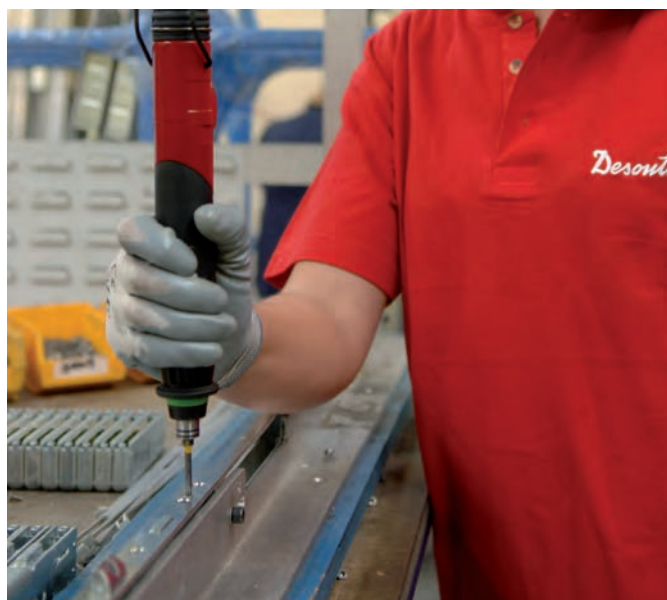
Fastener Head Type	Drivers	Output
 POZIDRIV/SUPADRIV	 4mm Wing Shank	Exx TORX SOCKET SIZE XX
 PHILLIPS	 5mm Wing Shank	SWxx SOCKET SIZE XX
 TORX	 4mm Halfmoon	T TORX SIZE XX
 TORX TAMPER PROOF	 1/4" Hex** Insert (C6.3) (ISO1173/ DIN3126)	INxx HEX BIT SIZE XX
 TORX PLUS	 1/4" Hex Power Drive (E6.3) (ISO1173/ DIN3126)	XZNxx TORX 12 BIT SIZE XX
 INTERNAL HEX	 5/16" Hex Power Drive	
 EXTERNAL HEX	 3mm Hex Power Drive (A3) (ISO1173)	
 SLOT	 Thread Drive	
 TRI-WING	 Square Drive	

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

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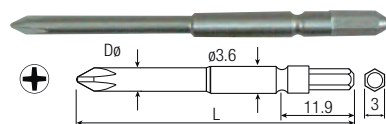
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We can propose today a high quality range of bits and sockets with the latest Technology Support and Quality controls.

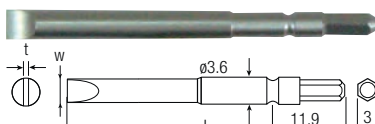


Bits for precision screw

Drive: Ø 3mm Hex drive

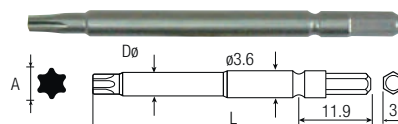


PH	D ø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
0	2.5	0.10	50	1.97	615 820 227 0
1	4.0	0.16	50	1.97	615 820 228 0

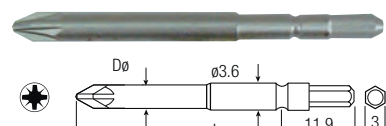


W	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
3	0.5	0.02	50	1.97	615 820 232 0*
4	0.8	0.03	50	1.97	615 820 236 0

* Production upon your order.

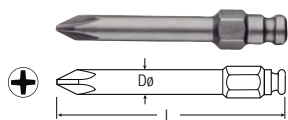


T	A		Dø		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
T6	1.7	0.06	2.2	0.09	50	1.97	615 820 240 0
T10	2.7	0.11	3.0	0.12	50	1.97	615 820 243 0

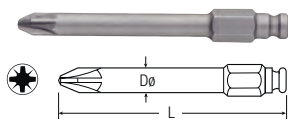


PZ	D ø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
0	3	0.12	50	1.97	615 820 238 0
1	4	0.16	50	1.97	615 820 239 0

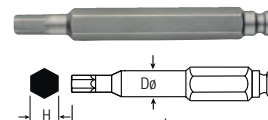
Drive: 5/16" = 8mm Hex drive



PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.5	0.18	50	1.97	615 820 645 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



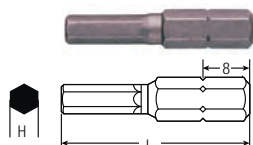
PZ	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	-	-	92	3.62	615 820 724 0
2	6.0	0.24	50	1.97	615 820 647 0
2	6.0	0.24	92	3.62	615 820 355 0



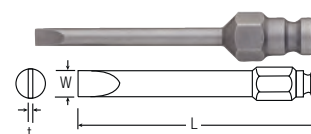
H	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
H4	6.0	0.24	50	1.97	615 820 328 0*
H5	8.0	0.31	50	1.97	615 820 329 0
H6	8.0	0.31	50	1.97	615 820 330 0
H8	8.0	0.31	50	1.97	615 820 331 0*

* Production upon your order.

Drive: 11mm Hex drive



H	LENGTH L		PART NO
	mm	in	10 pcs
H6	70	2.76	615 820 650 0

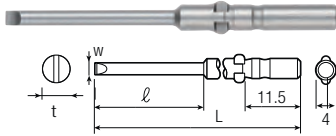


W	t		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
3	0.5	0.02	76	2.99	615 820 209 0
3.7	0.8	0.03	52	2.05	615 820 725 0
8.8	1.3	0.05	52	2.05	615 820 728 0

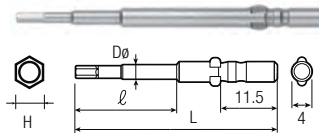


Bits for precision screw

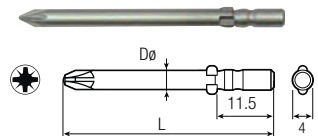
Drive: $\varnothing$ 4mm shank drive - Wing shank



W	t	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
2	0.3	0.01	20 0.79	40 1.57	SLB001 615 820 423 0
2.5	0.3	0.01	20 0.79	40 1.57	SLB001 615 820 424 0
3	0.4	0.02	20 0.79	40 1.57	SLB001 615 820 048 0
4	0.5	0.02	- -	40 1.57	SLB001 615 820 425 0

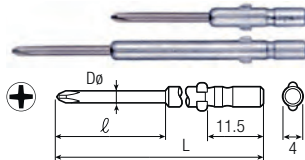


H	Dø	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
H1.5	2	0.08	20 0.79	60 2.36	SLB001 615 820 426 0
H2	3	0.12	20 0.79	60 2.36	SLB001 615 820 427 0
H2.5	3	0.12	20 0.79	60 2.36	SLB001 615 820 428 0
H3	4	0.16	- -	60 2.36	SLB001 615 820 429 0



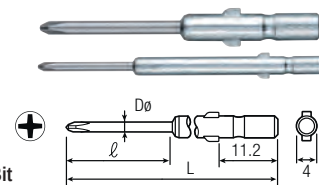
PZ	Dø		LENGTH L		TOOLS	PART NO
	mm	in	mm	in		10 pcs
0	4	0.16	60	2.36	SLB001	615 820 369 0
1	4	0.16	60	2.36	SLB001	615 820 370 0
2	4	0.16	60	2.36	SLB001	615 820 383 0

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



PH	Dø	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
00	1.2	0.05	20 0.79	40 1.57	ERXS / SLB001 615 820 027 0
00	1.5	0.06	20 0.79	40 1.57	ERXS / SLB001 615 820 412 0
00	1.5	0.06	20 0.79	60 2.36	SLB001 615 820 413 0
00	2.0	0.08	20 0.79	40 1.57	ERXS / SLB001 615 820 414 0
00	2.0	0.08	20 0.79	60 2.36	SLB001 615 820 415 0
0	1.4	0.06	20 0.79	40 1.57	ERXS / SLB001 615 820 028 0
0	1.4	0.06	20 0.79	60 2.36	SLB001 615 820 029 0
0	1.7	0.07	20 0.79	40 1.57	ERXS / SLB001 615 820 416 0
0	1.7	0.07	20 0.79	60 2.36	ERXS / SLB001 615 820 417 0
0	2.0	0.08	20 0.79	40 1.57	ERXS / SLB001 615 820 030 0
0	2.0	0.08	20 0.79	60 2.36	ERXS / SLB001 615 820 031 0
0	2.0	0.08	20 0.79	80 3.15	ERXS / SLB001 615 820 032 0
0	2.0	0.08	20 0.79	100 3.94	SLB001 615 820 033 0
0	2.5	0.10	20 0.79	40 1.57	ERXS / SLB001 615 820 418 0
0	2.5	0.10	20 0.79	60 2.36	ERXS / SLB001 615 820 419 0
0	2.5	0.10	20 0.79	80 3.15	SLB001 615 820 034 0
0	2.5	0.10	20 0.79	100 3.94	SLB001 615 820 035 0
1	3.0	0.12	20 0.79	40 1.57	SLB001 615 820 420 0
1	3.0	0.12	20 0.79	60 2.36	ERXS / SLB001 615 820 036 0
1	3.0	0.12	20 0.79	80 3.15	SLB001 615 820 037 0
1	3.0	0.12	20 0.79	100 3.94	SLB001 615 820 038 0
1	3.0	0.12	20 0.79	120 4.72	SLB001 615 820 442 0
1	4.0	0.16	- -	40 1.57	SLB001 615 820 421 0
1	4.0	0.16	- -	60 2.36	SLB001 615 820 039 0
2	4.0	0.16	- -	40 1.57	SLB001 615 820 422 0
2	4.0	0.16	- -	60 2.36	ERXS / SLB001 615 820 040 0
2	4.0	0.16	- -	80 3.15	SLB001 615 820 041 0
2	4.0	0.16	- -	100 3.94	SLB001 615 820 042 0
2	4.0	0.16	- -	120 4.72	SLB001 615 820 043 0

Shockless Bit

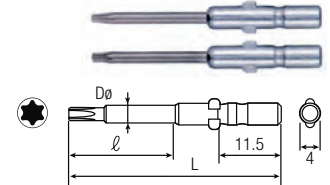


PH	Dø	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
00	1.5	0.06	20 0.79	40 1.57	ERXS / SLB001 615 820 390 0
00	1.5	0.06	20 0.79	60 2.36	ERXS / SLB001 615 820 391 0
0	1.5	0.06	20 0.79	40 1.57	ERXS / SLB001 615 820 392 0
0	1.5	0.06	20 0.79	60 2.36	ERXS / SLB001 615 820 393 0
0	1.7	0.07	20 0.79	40 1.57	ERXS / SLB001 615 820 394 0
0	1.7	0.07	20 0.79	60 2.36	ERXS / SLB001 615 820 395 0
0	2	0.08	20 0.79	40 1.57	ERXS / SLB001 615 820 396 0
0	2	0.08	20 0.79	60 2.36	ERXS / SLB001 615 820 397 0

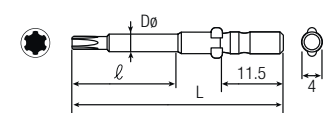


Shockless Bit

T	Dø	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
T5	2	0.08	20 0.79	40 1.57	ERXS / SLB001 615 820 398 0
T5	2	0.08	20 0.79	60 2.36	ERXS / SLB001 615 820 399 0
T6	2	0.08	20 0.79	40 1.57	ERXS / SLB001 615 820 400 0
T6	2	0.08	20 0.79	60 2.36	ERXS / SLB001 615 820 401 0



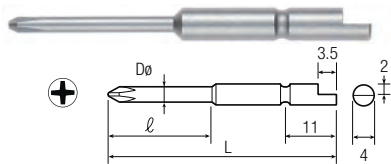
T	Dø	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
T1	1.5	0.06	20 0.79	40 1.57	SLB001 615 820 670 0
T2	1.5	0.06	20 0.79	40 1.57	SLB001 615 820 671 0
T3	1.7	0.07	20 0.79	40 1.57	SLB001 615 820 672 0
T4	1.8	0.07	20 0.79	40 1.57	ERXS / SLB001 615 820 673 0
T5	2.0	0.08	20 0.79	40 1.57	SLB001 615 820 049 0
T5	2.0	0.08	20 0.79	60 2.36	SLB001 615 820 050 0
T6	2.0	0.08	20 0.79	40 1.57	ERXS / SLB001 615 820 051 0
T6	2.0	0.08	20 0.79	60 2.36	ERXS / SLB001 615 820 052 0
T7	2.0	0.08	20 0.79	60 2.36	SLB001 615 820 053 0
T8	3.0	0.12	20 0.79	40 1.57	SLB001 615 820 674 0
T8H	4.0	0.16	- -	60 2.36	SLB001 615 820 054 0
T9	3.0	0.12	20 0.79	40 1.57	ERXS / SLB001 615 820 675 0
T10	3.0	0.12	20 0.79	40 1.57	ERXS / SLB001 615 820 676 0
T10H	4.0	0.16	- -	60 2.36	ERXS / SLB001 615 820 055 0



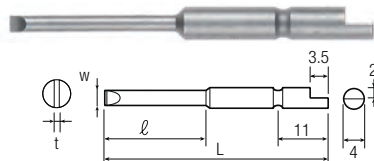
Torx Plus

IP	Dø	l	LENGTH L	TOOLS	PART NO
mm	in	mm	in		10 pcs
4IP	1.8	0.07	20 0.79	60 2.36	ERXS / SLB001 615 820 371 0
5IP	2.0	0.08	20 0.79	60 2.36	ERXS / SLB001 615 820 372 0
6IP	2.5	0.10	20 0.79	60 2.36	ERXS / SLB001 615 820 373 0
8IP	3.0	0.12	20 0.79	60 2.36	ERXS / SLB001 615 820 374 0
10IP	3.0	0.12	20 0.79	60 2.36	ERXS / SLB001 615 820 375 0

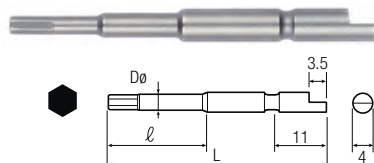
Drive: ø 4mm - Halfmoon



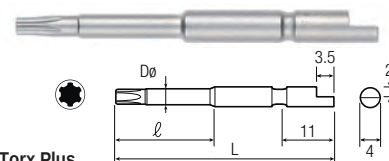
PH	Dø		I		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
00	1.5	0.06	20	0.79	44	1.73	615 820 406
00	1.5	0.06	20	0.79	64	2.52	615 820 407 0
00	2.0	0.08	20	0.79	64	2.52	615 820 078 0
0	1.8	0.07	20	0.79	44	1.73	615 820 076 0
0	1.8	0.07	20	0.79	64	2.52	615 820 077 0
0	2.0	0.08	20	0.79	44	1.73	615 820 408 0
0	2.0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



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

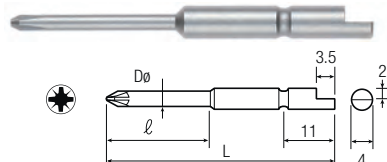


H	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	
H1.5	2.0	0.08	20	0.79	44	1.73	615 820 091 0
H2	3.0	0.12	20	0.79	44	1.73	615 820 092 0
H2.5	3.0	0.12	20	0.79	44	1.73	615 820 093 0
H3	4.0	0.16	-	-	44	1.73	615 820 094 0

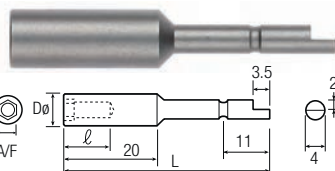


Torx Plus

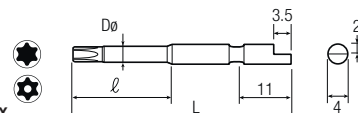
IP	Dø		I		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
2IP	1.5	0.06	20	0.79	44	1.73	615 820 381 0
2IP	1.5	0.06	20	0.79	64	2.52	615 820 367 0
3IP	1.7	0.07	20	0.79	44	1.73	615 820 382 0
3IP	1.7	0.07	20	0.79	64	2.52	615 820 368 0
4IP	1.8	0.07	20	0.79	44	1.73	615 820 357 0
4IP	1.8	0.07	20	0.79	64	2.52	615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



PZ	Dø		l		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
0	2.5	0.10	20	0.79	44	1.73	615 820 377 0
0	2.5	0.10	20	0.79	64	2.52	615 820 378 0
1	4.0	0.16	-	-	44	1.73	615 820 379 0
1	4.0	0.16	-	-	64	2.52	615 820 380 0



AF	Dø		I		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
A/F2.3	4.0	0.16	5	0.20	44	1.73	615 820 095 0
A/F2.5	4.0	0.16	5	0.20	44	1.73	615 820 096 0
A/F3	5.0	0.20	8	0.31	44	1.73	615 820 097 0
A/F4	7.0	0.28	10	0.39	44	1.73	615 820 098 0
A/F4.5	7.0	0.28	10	0.39	44	1.73	615 820 099 0
A/F5	8.0	0.31	15	0.59	44	1.73	615 820 100 0
A/F5.5	8.0	0.31	15	0.59	44	1.73	615 820 101 0

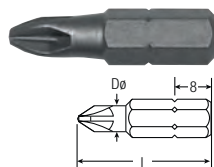


Torx
Torx Tamper Proof

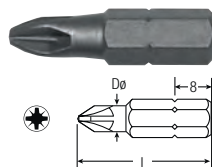
T	Dø		l		LENGTH		PART NO
	mm	in	mm	in	mm	in	10 pcs
T1	1.5	0.06	20	0.79	44	1.73	615 820 663
T2	1.5	0.06	20	0.79	44	1.73	615 820 664 0
T3	1.7	0.07	20	0.79	44	1.73	615 820 665 0
T4	1.8	0.07	20	0.79	44	1.73	615 820 666 0
T5	2.0	0.08	20	0.79	44	1.73	615 820 102 0
T5	2.0	0.08	20	0.79	64	2.52	615 820 103 0
T6	2.0	0.08	20	0.79	44	1.73	615 820 104 0
T6	2.0	0.08	20	0.79	64	2.52	615 820 105 0
T8	3.0	0.12	20	0.79	44	1.73	615 820 668 0
T8H	3.0	0.12	20	0.79	44	1.73	615 820 106 0
T8H	3.0	0.12	20	0.79	64	2.52	615 820 107 0
T9	3.0	0.12	20	0.79	44	1.73	615 820 669 0
T10H	3.0	0.12	20	0.79	44	1.73	615 820 108 0
T10H	3.0	0.12	20	0.79	64	2.52	615 820 109 0
T15H	4.0	0.16	20	0.79	64	2.52	615 820 110 0

Insert bits

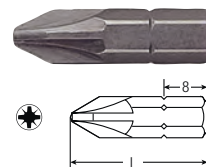
Drive: 1/4" = 6.35mm
Hex shank DIN3126-C6.3



PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
2	6.0	0.24	25.4	1.00	615 820 518 0

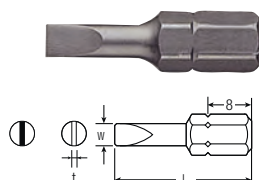


PZ	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.5	0.18	25.0	0.98	615 820 690 0
2	6.0	0.24	25.0	0.98	615 820 450 0
2	6.0	0.24	50.0	1.97	615 820 694 0
3	6.0	0.24	25.0	0.98	615 820 693 0

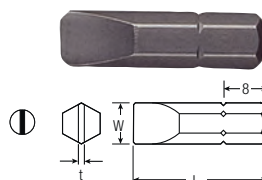


PZ	LENGTH L		PART NO
	mm	in	10 pcs
1	25.4	1.00	615 820 449 0
2	25.4	1.00	615 820 450 0
3	50.0	1.97	615 820 522 0

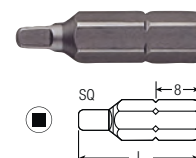
Drive: 1/4" = 6.35mm
Hex shank DIN3126-C6.3



w	t	LENGTH L		PART NO	
	mm	in	mm	in	10 pcs
4	0.6	0.02	25.0	0.98	615 820 531 0
5	0.8	0.03	25.0	0.98	615 820 532 0

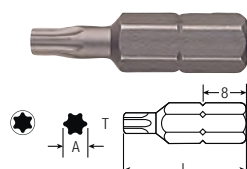


w	t	LENGTH L		PART NO	
	mm	in	mm	in	10 pcs
4.76	0.9	0.03	25.4	1.00	615 820 452 0
5.55	1.0	0.04	25.4	1.00	615 820 453 0
6.35	1.1	0.04	25.4	1.00	615 820 454 0
7.14	1.2	0.05	25.4	1.00	615 820 455 0
7.93	1.3	0.05	25.4	1.00	615 820 456 0

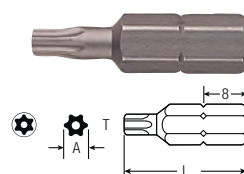


SQ	LENGTH L		PART NO	
	mm	in	mm	in
1 (3/32")	25.4	1.00	615 820 461 0*	
2 (1/8")	25.4	1.00	615 820 462 0	
3 (9/64")	25.4	1.00	615 820 463 0	

* Production upon your order.



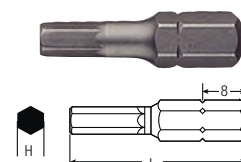
T	A	LENGTH L		PART NO	
	mm	in	mm	in	10 pcs
T3	1.1	0.04	25.0	0.98	615 820 686 0
T5	1.4	0.05	25.0	0.98	615 820 537 0
T6	1.7	0.06	25.0	0.98	615 820 538 0
T7	2.0	0.08	25.0	0.98	615 820 539 0
T8	2.3	0.09	25.0	0.98	615 820 540 0
T9	2.5	0.10	25.0	0.98	615 820 541 0
T10	2.7	0.11	25.0	0.98	615 820 542 0
T15	3.3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



Torx Tamper Proof

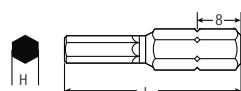
T	A	LENGTH L		PART NO	
	mm	in	mm	in	10 pcs
T10H	2.7	0.11	25.0	0.98	615 820 549 0
T20H	3.8	0.15	25.0	0.98	615 820 551 0
T25H	4.4	0.17	25.0	0.98	615 820 552 0
T27H	5.0	0.20	25.0	0.98	615 820 553 0*

* Production upon your order.



H	LENGTH L		PART NO	
	mm	in	mm	in
H1.5	25.0	0.98	615 820 523 0	
H2	25.0	0.98	615 820 524 0	
H2.5	25.0	0.98	615 820 525 0	
H3	25.0	0.98	615 820 526 0	
H4	25.0	0.98	615 820 527 0	
H5	25.0	0.98	615 820 528 0	
H6	25.0	0.98	615 820 529 0	
H8	25.0	0.98	615 820 530 0	

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

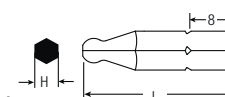


H	LENGTH L		PART NO	
	mm	in	mm	in
H5	34.0	1.34	615 820 533 0	
H6	34.0	1.34	615 820 534 0	



Torx Plus

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

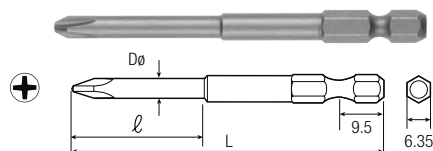


Ball Point

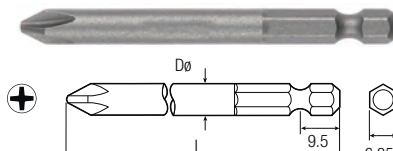
H	LENGTH L		PART NO	
	mm	in	mm	in
H2	25.0	0.98	615 820 114 0	
H2.5	25.0	0.98	615 820 115 0	
H3	25.0	0.98	615 820 116 0	
H4	25.0	0.98	615 820 117 0	
H5	25.0	0.98	615 820 118 0	
H6	25.0	0.98	615 820 119 0	
H8	25.0	0.98	615 820 120 0	

Power bits

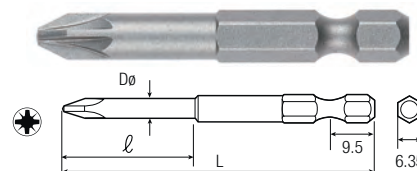
Drive: 1/4" = 6.35mm
Hex drive - DIN3126-E6.3



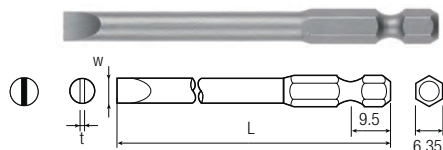
PH	Dø		I		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
00	1.2	0.05	20	0.8	60	2.4	615 820 056 0
00	1.6	0.06	-	-	49	1.9	615 820 125 0
00	1.6	0.06	-	-	70	2.8	615 820 348 0
00	1.5	0.06	20	0.8	60	2.4	615 820 057 0
00	1.7	0.07	20	0.8	60	2.4	615 820 058 0
00	2	0.08	40	1.57	60	2.36	615 820 059 0
0	1.4	0.06	30	1.2	60	2.4	615 820 061 0
0	1.7	0.07	40	1.6	80	3.1	615 820 064 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



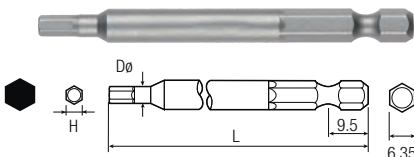
PH	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
1	4.8	0.19	49	1.93	615 820 465 0
1	4.76	0.19	70	2.76	615 820 466 0
1	4.76	0.19	89	3.50	615 820 467 0
1	4.5	0.18	150	5.91	615 820 659 0
1	4.76	0.19	152	5.98	615 820 468 0
2	4.76	0.19	49	1.93	615 820 126 0
2	6.35	0.25	49	1.93	615 820 469 0
2	6.35	0.25	70	2.76	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	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	70	2.76	615 820 474 0
3	7.9	0.31	89	3.50	615 820 475 0
3	8.0	0.31	150	5.91	615 820 128 0



PZ	Dø		I		LENGTH L		PART NO
	mm	in	mm	in	mm	in	10 pcs
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	-	-	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	-	-	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
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	10 pcs
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
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	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
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

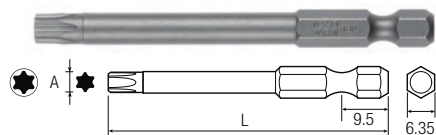


H	Dø		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
H2	7.0	0.28	75	2.95	615 820 001 0
H2	7.0	0.28	100	3.94	615 820 002 0
H2	3.5	0.14	49	1.93	615 820 353 0
H2.5	7.0	0.28	75	2.95	615 820 003 0
H2.5	7.0	0.28	100	3.94	615 820 004 0
H2.5	7.0	0.28	150	5.91	615 820 014 0
H2.5	3.5	0.14	49	1.93	615 820 495 0
H3	3.5	0.14	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	10 pcs
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

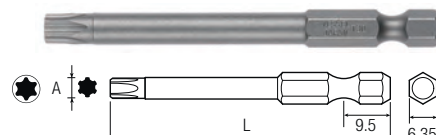


Drive: 1/4" = 6.35mm
Hex drive - DIN3126-E6.3



T	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
T5	1.37	0.05	49	1.93	615 820 153 0
T5	1.37	0.05	70	2.76	615 820 154 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
T7	1.97	0.08	70	2.76	615 820 161 0
T7	1.97	0.08	89	3.50	615 820 162 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	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	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

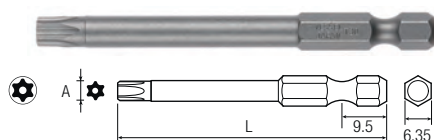
* Production upon your order.



Torx Plus

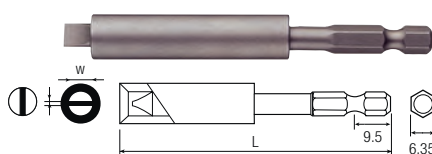
IP	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
5IP	1.37	0.05	49	1.93	615 820 265 0
5IP	1.37	0.05	70	2.76	615 820 266 0
6IP	1.65	0.06	152	5.98	615 820 270 0
7IP	1.97	0.08	49	1.93	615 820 271 0
7IP	1.97	0.08	70	2.76	615 820 272 0
7IP	1.97	0.08	90	3.54	615 820 273 0
7IP	1.97	0.08	152	5.98	615 820 274 0
8IP	2.30	0.09	49	1.93	615 820 275 0
8IP	2.30	0.09	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	152	5.98	615 820 294 0
15IP	3.26	0.13	49	1.93	615 820 295 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	90	3.54	615 820 291 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.



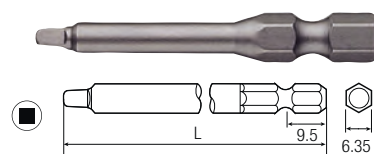
Torx Tamper Proof

T	A		LENGTH L		PART NO
	mm	in	mm	in	10 pcs
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

Under Sleeve Combined						
W	t		screw head	LENGTH L		PART NO
	mm	in		mm	in	10 pcs
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



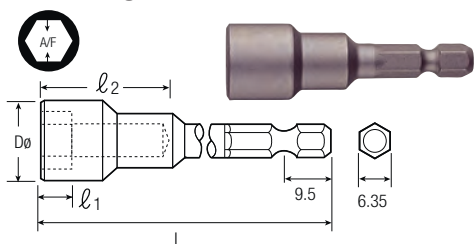
SQ	LENGTH L		PART NO
	mm	in	10 pcs
1 (3/32")	70	2.76	615 820 500 0
3 (9/64")	70	2.76	615 820 502 0

Nut setters

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

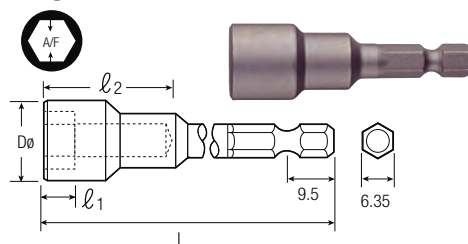


Non magnetic nut setters



A/F		Dø		l1		l2		LENGTH L		PART NO
mm	in	mm	in	mm	in	mm	in	mm	in	10 pcs
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	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	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	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	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

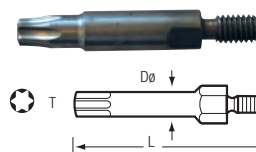


A/F		Dø		l1		LENGTH L		PART NO
mm	in	mm	in	mm	in	mm	in	10 pcs
5.0	0.2	8.5	0.3	3.5	0.1	50	2.0	615 820 612 0
5.0	0.2	8.5	0.3	3.5	0.1	75	3.0	615 820 623 0
5.0	0.2	8.5	0.3	3.5	0.1	100	3.9	615 820 634 0
5.0	0.2	8.5	0.3	3.5	0.1	150	5.9	615 820 218 0
5.5	0.2	9.0	0.4	3.5	0.1	50	2.0	615 820 613 0
5.5	0.2	9.0	0.4	3.5	0.1	75	3.0	615 820 624 0*
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	10 pcs
2	M4	34 1.34	615 820 654 0
2	M5	34 1.34	615 820 657 0

PZ	M	LENGTH L	PART NO
		mm in	10 pcs
2	M5	34 1.34	615 820 658 0

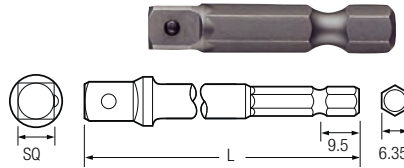
T	M	Dø	LENGTH L	PART NO
		mm in	mm in	10 pcs
T10	M4	6 0.24	33 1.3	105782
T20	M4	6 0.24	33 1.3	105802
T15	M5	7 0.28	33 1.3	105842
T20	M5	7 0.28	33 1.3	105852
T25	M5	7 0.28	33 1.3	105862
T30	M5	7 0.28	33 1.3	105882

* Production upon your order.



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



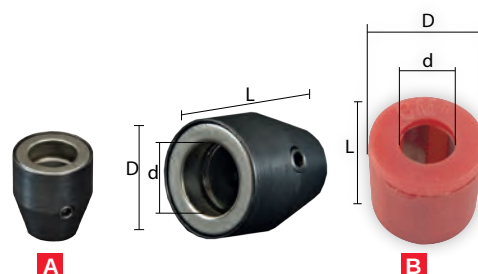
	TIP SIZE	LENGTH L		PART NO
		mm	in	
⊕	T10	49	1.93	615 820 340 0
⊕	T10	70	2.76	615 820 341 0
⊕	T15	49	1.93	615 820 702 0
⊕	T20	49	1.93	615 820 342 0
⊕	T20	75	2.95	615 820 343 0
⊕	T20	150	5.91	615 820 344 0
⊕	T25	49	1.93	615 820 704 0
⊕	T25	70	2.76	615 820 705 0

	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				
	615 820 404 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				
	615 820 402 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
	615 820 256 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

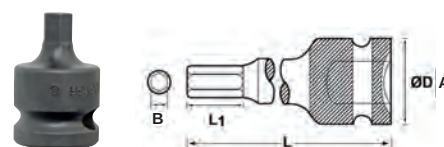
Ring magnet sleeves

PICTURE	d Max		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
	6.1	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
	14	0.55	23.5	0.93	18	0.71	615 811 432 0
B	7	0.27	14	0.54	13	0.51	615 804 978 0



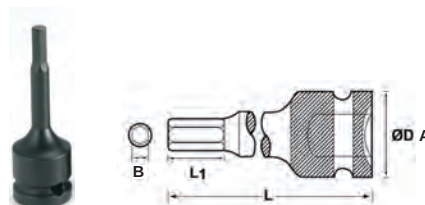
3/8" Hexagonal drives

A	B		L		L1		ØD		PART NO.
	mm	in	mm	in	mm	in	mm	in	
3/8"	4	0.16	60	1.97	16	0.63	19	0.75	909 201 378 1
3/8"	5	0.2	60	1.97	16	0.63	19	0.75	909 201 381 1
3/8"	8	0.31	60	1.97	16	0.63	19	0.75	909 201 387 1
3/8"	10	0.39	60	1.97	16	0.63	19	0.75	909 201 390 1



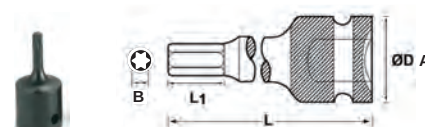
1/2" Hexagonal drives

A	B		L		L1		ØD		PART NO
	mm	in	mm	in	mm	in	mm	in	
1/2"	6	0.24	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



Internal Torx drives

A	B	L		L1		ØD		PART NO.
		mm	in	mm	in	mm	in	
3/8"	T25	40	2.95	3	0.12	22	0.87	615 811 434 0
3/8"	T30	40	2.95	3.8	0.15	22	0.87	615 811 435 0
3/8"	T40	40	2.95	3.8	0.15	22	0.87	615 811 436 0
1/2"	T40	55	2.95	3.8	0.15	25	0.98	615 811 437 0

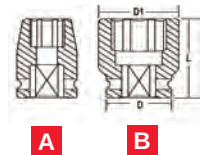


Sockets and adaptors range

1/4" = 6.35mm Square drive sockets

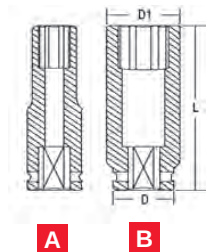
1/4" Standard

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	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
S210M	10	0.39	B	13	0.51	14.7	0.58	23.1	0.91	894 016 368 0
S213M	13	0.51	B	13	0.51	18.8	0.74	23.1	0.91	894 016 368 3



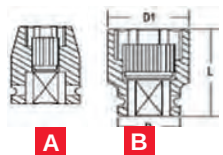
1/4" Deep

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
S210MD	10	2.5	B	13	0.51	14.7	0.58	50.0	1.97	894 016 370 4



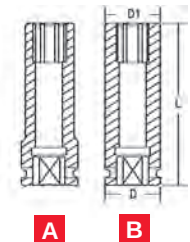
1/4" Magnetic

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
S208MG	8	2	A	13	0.51	12.2	0.48	23.1	0.91	894 016 374 3



1/4" Deep Magnetic

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
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

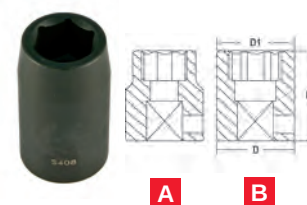


Sockets and adaptors range

3/8" = 9.52mm Square drive sockets

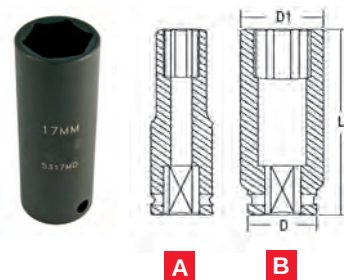
3/8" Standard

MODEL	OUTPUT SIZE		DESSIN	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
S322M	22	0.87	B	30.0	1.18	30.0	1.18	30.0	1.18	894 016 380 0



3/8" Deep

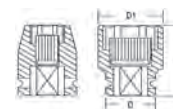
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S307MD	7	0.28	A	19.0	0.75	11.4	0.45	65.0	2.56	894 016 381 3
S308MD	8	0.31	A	19.0	0.75	12.7	0.50	65.0	2.56	894 016 381 4
S310MD	10	0.39	A	19.0	0.75	15.2	0.60	65.0	2.56	894 016 381 6
S311MD	11	0.43	A	19.0	0.75	17.0	0.67	65.0	2.56	894 016 381 7
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
S317MD	17	0.67	B	23.9	0.94	23.9	0.94	65.0	2.56	894 016 382 3
S319MD	19	0.75	B	25.9	1.02	25.9	1.02	65.0	2.56	894 016 382 5



Sockets and adaptors range

3/8" Magnetic

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
S310MG	10	0.39	A	19.0	0.75	15.2	0.6	29.5	1.16	894 016 389 5
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

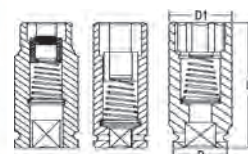


A

B

3/8" Deep magnetic

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
S313MDG	13	0.51	B	19.0	0.75	18.8	0.74	63	2.5	894 016 392 0



A

B

C

1/2" = 12.7mm Square drive sockets

1/2" Standard

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	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
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
S415M	15	0.59	A	24.9	0.98	23.1	0.91	38.1	1.5	894 016 395 7
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
S424M	24	0.94	B	34.0	1.34	34.0	1.34	38.1	1.5	894 016 396 6
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	1.50	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

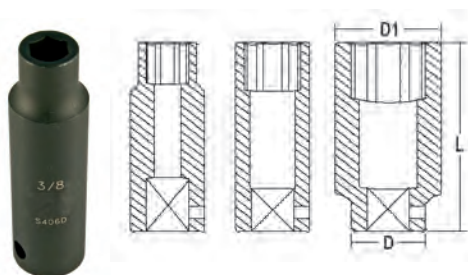


A

B

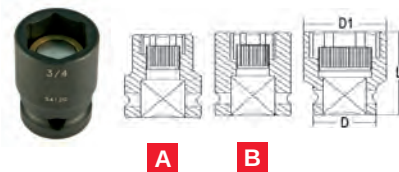
C

Sockets and adaptors range



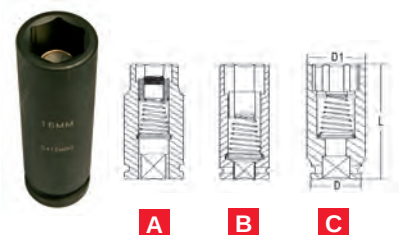
1/2" Deep

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S409MD	9	0.35	A	22.1	0.87	15.5	0.61	78.0	3.07	894 016 399 9
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
S427MD	27	1.06	B	38.1	1.5	38.1	1.5	78.0	3.07	894 016 401 2
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



1/2" Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
				mm	in	mm	in	mm	in	
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

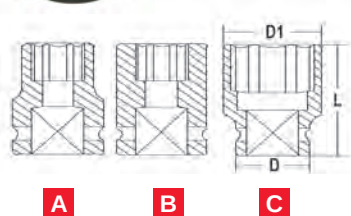


1/2" Deep Magnetic

MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
	mm	in		D		D1		L		
S414MDG	14	0.55	A	24.90	98.21	60.85	78	3.07	894 016 412 0	

3/4" = 19mm Square Drive Sockets

3/4" Standard



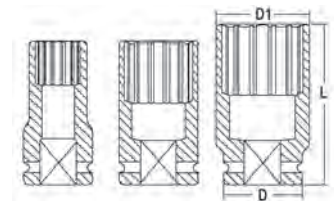
MODEL	OUTPUT SIZE		SHAPE	DIMENSIONS						PART NO.
				D		D1		L		
	mm	in		mm	in	mm	in	mm	in	
S620M	20	0.79	A	38.1	1.5	31.0	1.22	52.1	2.05	894 016 418 1
S622M	22	0.87	A	38.1	1.5	34.0	1.34	52.1	2.05	894 016 418 3
S623M	23	0.91	A	38.1	1.5	35.0	1.38	52.1	2.05	894 016 418 4
S624M	24	0.94	A	38.1	1.5	36.0	1.42	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



Sockets and adaptors range

3/4" Deep

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
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
S627MD	27	1.06	B	39.9	1.57	39.9	1.57	85.1	3.35	894 016 425 6
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



A

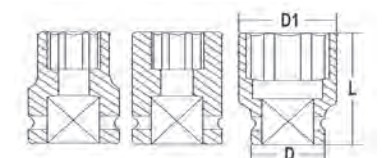
B

C

1" = 25.4mm Square Drive Sockets

1" Standard

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
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
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



A

B

C

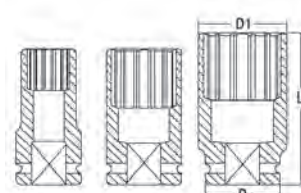
Sockets and adaptors range

1" Standard

MODEL	OUTPUT SIZE		SHAPE	D		D1		L		PART NO.
	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	D		D1		L		PART NO.
	mm	in		mm	in	mm	in	mm	in	
S821MD	21	0.83	A	51.0	2.01	38.1	1.5	89.9	3.54	894 016 440 4
S824MD	24	0.94	A	51.0	2.01	39.9	1.57	89.9	3.54	894 016 440 7
S827MD	27	1.06	A	51.0	2.01	43.9	1.73	89.9	3.54	894 016 441 0
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
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
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
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
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



A

B

C



Sockets and adaptors range

O-Ring & Retaining Pins

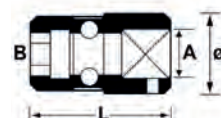
A		ØB		PART NO.
mm	in	mm	in	O-Ring
19.05	3/4	31.7	1 1/4	C-155467
19.05	3/4	36.5	1 4/9	C-155468
19.05	3/4	41.3	1 5/8	C-134690
19.05	3/4	44.4	1 3/4	C-134691
25.4	1	44.4	1 3/4	C-155470
25.4	1	50.8	2	C-155471
25.4	1	54.0	2 1/8	C-155472
25.4	1	57.1	2 1/4	C-134692
38.1	1 1/2	73.0	2 7/8	C-134693
38.1	1 1/2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



Bit Adaptors

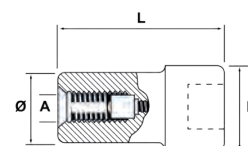
A	B	L		Ø MAX		RETENTION	PART NO.
		mm	in	mm	in		
3/8"	Hex 1/4" (D6.3)*	32	1.26	16	0.63	Ball retention	21792
3/8"	Hex 1/4" (F6.3)**	46	1.81	22	0.87	Q/R	108052
1/2"	Hex 1/4" (D6.3)*	45	1.77	22	0.87	Q/R	615 812 306 0

*Insert **Direct



Stud Runners

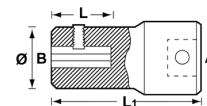
A	B	L		Ø		D		PART NO.
		mm	in	mm	in	mm	in	
3/8"	M5 x 80	50	2	15	0.59	19	0.75	615 811 727 0
3/8"	M6 x 100	50	2	15	0.59	19	0.75	615 811 728 0
3/8"	M8 x 125	50	2	17	0.67	19	0.75	615 811 729 0
3/8"	M10 x 150	50	2	19	0.75	24	0.94	615 811 730 0
1/2"	M6 x 100	55	2.2	22	0.87	24	0.94	615 811 731 0
1/2"	M8 x 125	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



Sockets and adaptors range

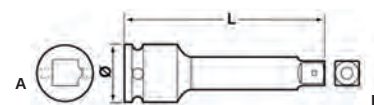
Bit Adaptors - Positive Retention

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	
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
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"	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
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"	46	1.81	19	0.75	615 811 589 0
1/2"	1/2"	60	2.36	25	0.98	615 811 590 0
3/4"	3/4"	78	3.07	44	1.73	615 811 591 0
3/8"	1/2"	60	2.36	20	0.79	615 811 592 0
1/2"	3/8"	54	2.13	25	0.98	615 811 593 0
3/4"	1/2"	70	2.76	44	1.73	615 811 595 0



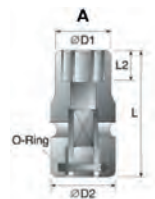
Sleeve drive socket - Pulse tools*

For Desoutter PTF models and all Japanese pulse tools

Drive 3/8"

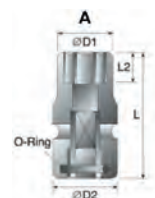
OUTPUT SIZE				DIMENSIONS						PART NO.
		D2		D1		L2		L		
mm	in	mm	in	mm	in	mm	in	mm	in	
8	0.31	19	0.75	13	0.51	7	0.28	43	1.69	615 811 777 0
10	0.39	19	0.75	16	0.63	7	0.28	43	1.69	615 811 778 0
11	0.43	19	0.75	17.5	0.69	8	0.31	43	1.69	615 811 779 0
12	0.47	19	0.75	18.5	0.73	9	0.35	43	1.69	615 811 780 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



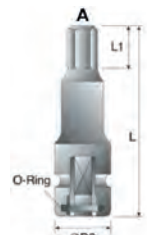
Drive 1/2"

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



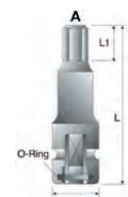
3/8" Hexagonal Drives

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



Sleeve drive socket - Pulse tools*

For Desoutter PTF models and all Japanese pulse tools

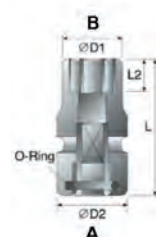
Internal Torx

DRIVE A	OUTPUT SIZE TORX B	D2		L1		L		PART NO.
		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



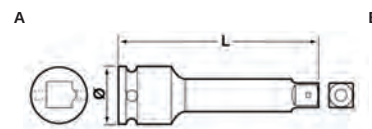
External Torx

DRIVE A	OUTPUT B	D2		D1		L2		L		PART NO.
		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 8500
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



Extension Bars

DRIVE A	OUTPUT B	D2		L		PART NO.
		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

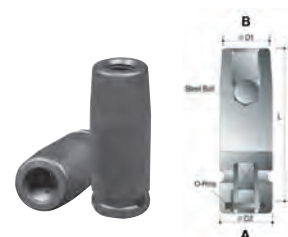


Sleeve drive socket - Pulse tools*

For Desoutter PTF models and all Japanese pulse tools

Stud setter sockets

DRIVE A	OUTPUT B	D2		D1		L		PART NO.
		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	D2		L		PART NO.
		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



Safety Instructions

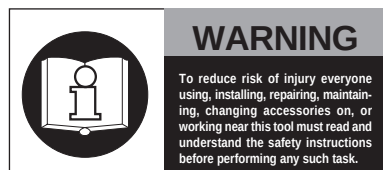
General Safety Instructions for the Operation of Power Tools

The goal of Desoutter is to produce tools that help the operator work safely and efficiently.

The most important safety device for this or any other tool is the operator. Care and good judgement are the best protection against injury.

All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.

Individuals should look for and obey Caution, Warning and Danger signs placed on tools and displayed in the workplace. Operators should read and follow safety instructions packed with each tool. For a copy of these instructions, contact your local Desoutter representative.



Learn how each tool works. Even if you have previously used similar tools, carefully check out each tool before you use it. Get the 'feel' of it and know its capabilities, limitations, potential hazards, how it operates and how it stops.

All tools are designed to operate at a line pressure of 6.3 bar +/- 0.15bar in accordance with ISO2787, 8NTC1.2.

Sound levels +/- 3dB(A)* are measured in accordance with EN ISO15744. Vibration values* are measured in accordance with ISO8662 & ISO28927.

*These declared values were obtained by laboratory type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standards. These declared values are not adequate for use in risk assessments and values measured in individual work places may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well upon the exposure time and the physical condition of the user.

We, Desoutter, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

Tools are CE marked to comply with European Machinery Directive.

Specifications subject to change without prior notice.

Further occupational health and safety information can be obtained from the following web sites:

<http://www.osha.gov> (USA) <http://europe.osha.eu.int> (Europe).



COMPRESSED AIR HAZARDS

- Air under pressure can cause injury. Never point an air hose at yourself or anyone else. Never blow your clothes free of dust with compressed air. Always direct exhaust air away from yourself and others in the work area.
- Always check for damaged or loose hoses and fittings before using an air tool, and replace if necessary. Whipping hoses can cause serious injury.
- Disconnect the tool from the air supply when not in use, before changing accessories, setting the torque, or when making repairs.
- Do not exceed rated air pressure to increase the output of the tool. This could cause injury and shorten tool life.
- Do not assemble quick coupler on the tool. Vibration can cause breakage resulting in a whipping air hose. Instead, use quick couplers on the end of a short leader hose.
- When universal twist couplings are used, lock pins must be installed to prevent accidental hose disconnection.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.



ELECTRICAL HAZARDS

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools and equipment. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded metal surfaces. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Do not expose electric power tools and equipment to wet conditions.
- Do not operate power tools in explosive atmospheres. Power tools create sparks which may ignite dust, fumes or flammable liquids.
- Have electric power tools and equipment serviced by a qualified repair person using only identical replacement parts.



PROJECTILE HAZARDS

- Always wear impact resistant eye and face protection when involved with or near the operation or repair of tools.



BREATHING HAZARDS

- Proper breathing protection must be worn when working with materials, which produce airborne particles.



NOISE HAZARDS

- Hearing loss can result from prolonged exposure to excessive sound levels.
- Use hearing protection as recommended by your employer or Occupational Health and Safety Regulations.



VIBRATION HAZARDS

- Repetitive work motions, awkward positions, and exposure to vibration may be harmful to your hands and arms.
- If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.



ENTANGLEMENT HAZARDS

- To reduce the risk of injury from entanglement, do not wear loose clothing when using rotating accessories.



ADDITIONAL HAZARDS

- Slip/Trip/Fall is a major cause of serious injury or death. Beware of excessive hose/cord left on the walking or work surface.
- Operators and maintenance personnel must be physically fit to perform job tasks, and handle the bulk, weight and power of the tool.
- Deburring tools should be used to reduce the risk of cuts and abrasions due to burrs.
- Wear gloves to protect hands from sharp edges.

Safety Instructions

Specific Safety Instructions for Power Tool Groups

In addition to the General Safety Instructions, the following are safety instructions and warnings that apply to the safe operation of specific power tool groups.



COMPRESSION TOOLS

- To reduce the risk of injury always keep hands and fingers away from yoke and moving jaws, sets or dies. If possible, hold the tool body with both hands.
- Inspect the yoke daily for cracks. Injury may result if a cracked yoke fails during use.
- All yokes have a life limitation based on cycles and riveting force. This tool and its accessories must not be modified.



DRILLS & TAPPERS

- Keep away from rotating bit and chuck. You can become cut or burned if you come into contact with the drill bit or tap, chips/swarf, or work surface.
- Use intermittent drill feed pressure to avoid long shaved chips/swarf.
- The drill bit or tap can suddenly bind and cause the workpiece or tool to rotate, causing arm and shoulder injuries.
- It is recommended that side handles are used for operator comfort and safety on high torque drilling applications above 4Nm (3 lbft) on straight case tools and 10Nm (7.4 lbft) on pistol grip drills. Drills with a chuck capacity larger than 10mm (3/8») should always be used with a side handle.



PERCUSSIVE TOOLS

(Riveting Hammers, Air Scribe)

- All chisels, rivet sets and other associated accessories should be checked for cracks, excessive wear, or other physical damage before each use. Accessories that show signs of damage should be replaced immediately.
- Never use a tool without the proper accessory retainer.



PULSE TOOLS

- Never use hand sockets or accessories. Use only impact sockets and accessories in good condition. Sockets in poor condition reduce impact power and could also shatter, resulting in personal injury.
- When using a universal joint, never operate the tool off the work. It may run too fast and cause the joint to be thrown from the tool.
- Always use the simplest hook up possible. Long springy extension bars and adaptors absorb impact power and could break loose resulting in personal injury. Instead, use deep sockets wherever possible.
- For tools using the pin and o-ring socket retainer, use the o-ring to securely retain the socket pin or use a one-piece retainer ring to retain the socket.
- Serious injury can result from overtorqued or under-torqued fasteners, which can break, or loosen and separate. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter.

NOTE: So-called 'click' torque wrenches do not check for potentially dangerous over-torqued conditions.



ANGLE WRENCHES

- Never use hand sockets or accessories. Use only power drive sockets and accessories.
- To reduce the risk of injury, always support the handle securely in the direction opposite of the spindle rotation to minimize torque reaction.



ACCESSORIES

- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Never use a tool without the proper accessory retainer.
- Do not use a tool or attachment for a purpose not intended by the manufacturer.



OTHER TOOLS

(e.g. Screwdrivers, Shears, Saws, etc.)

- Specific instructions/warnings affecting this group of tools are contained in product-specific documents accompanying each product.



ABRASIVE TOOLS

- Before grinding, test grinding wheel by briefly running tool at full throttle. Be sure to use a barrier (such as under a heavy work table) to protect yourself from possible broken wheel parts.
- Never mount a grinding wheel on a sander.
- Never use a grinding wheel rated at a speed lower than the air grinder speed.
- All grinding wheels and polishing/sanding accessories should be checked for cracks or other damage before mounting and use.
- Always use the recommended wheel guard to prevent injury when performing grinding operations. If a guard has withstood wheel or disk breakage, it must be replaced.
- Position a guard between the grinding wheel or disc and the operator.
- Use barriers to protect others from fragments and grinding sparks.
- Make sure grinding wheels are mounted according to manufacturer's specifications: always use correct mounting flanges.
- Never tamper with or remove a speed governor from a tool to make it run faster. Periodically check tool speed with a tachometer.

For complete safety instructions, please see the documentation provided with each tool.

All products in this catalog are subject to Californian Proposition 65.



Warning

Cancer and reproductive harm - <http://www.P65warnings.ca.gov>.

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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Notes

Conversion table

LENGTH

1 in.	=	0.0254 m
1 m	=	39.3701 in / 3.2808 ft
1 mm	=	0.0393701 in

WEIGHT

1 lb	=	0.4536 kg
1 kg	=	2.2046 lb

TORQUE

1 kpm	=	9.8067 Nm
1 ft-lb	=	1.3558 Nm
1 in-lb	=	0.1130 Nm
1 Nm	=	0.1020 kpm
1 Nm	=	0.7376 ft-lbs

POWER

1 kpm/s	=	9.8067 W
1 hp	=	745.7 W
1 hp	=	101.972 kpm/s
1 KW	=	1.3410 hp

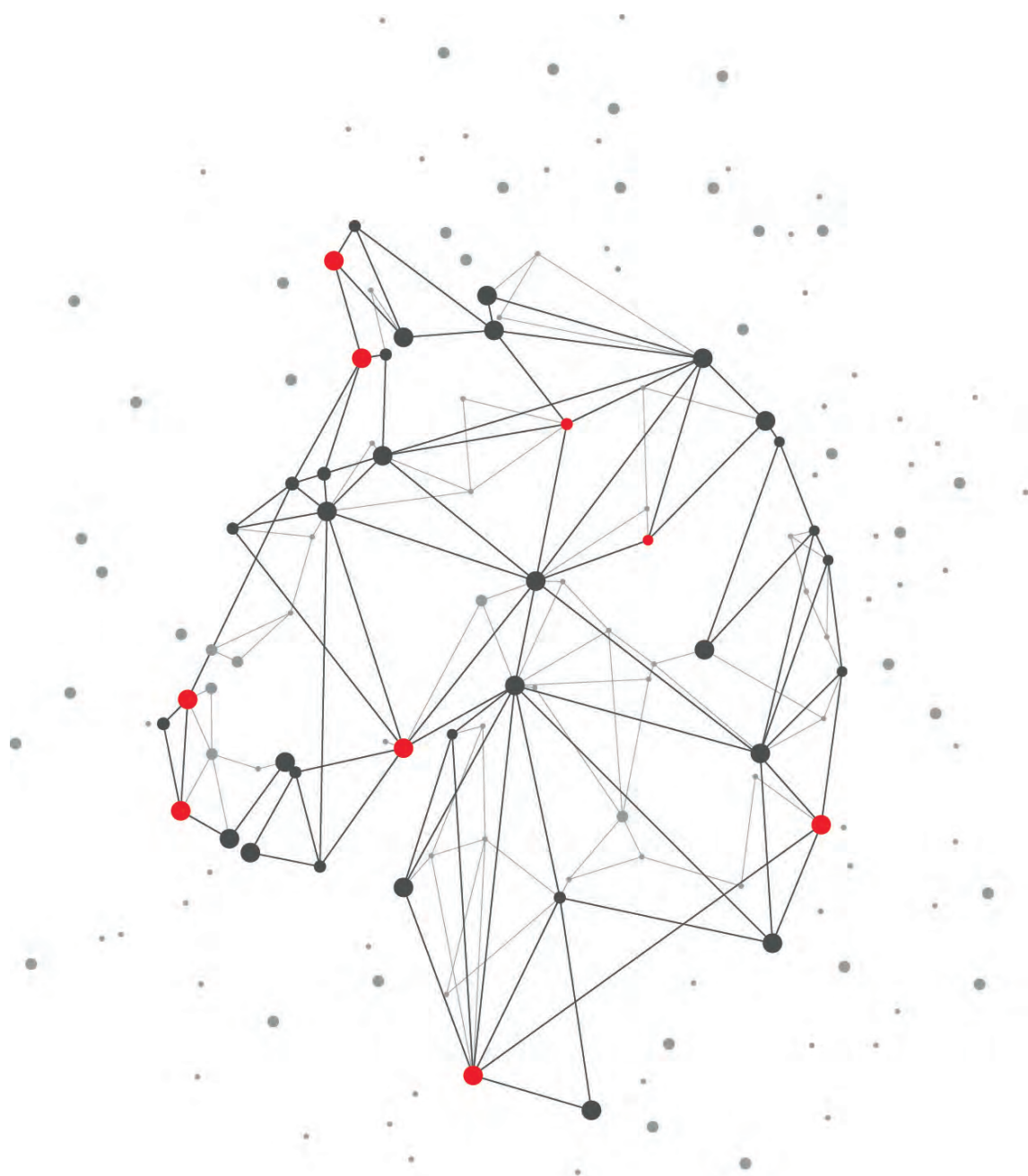
AIR PRESSURE

1 bar	=	100 kPa
1 kp/cm ² (at)	=	98.0665 kPa
1 psi	=	6.8948 kPa
1 kPa	=	0.0101972 kp/cm ² (at)

AIR FLOW

1 m ³ /min	=	16.6667 l/s
1 cfm	=	0.4720 l/s
1m ³ /h	=	0.2778 l/s
1 l/s	=	2.1189 cfm





DESOUTTER 4.0

www.desouttertools.com/industry-4-0/desoutter-4-0

More Than Productivity



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