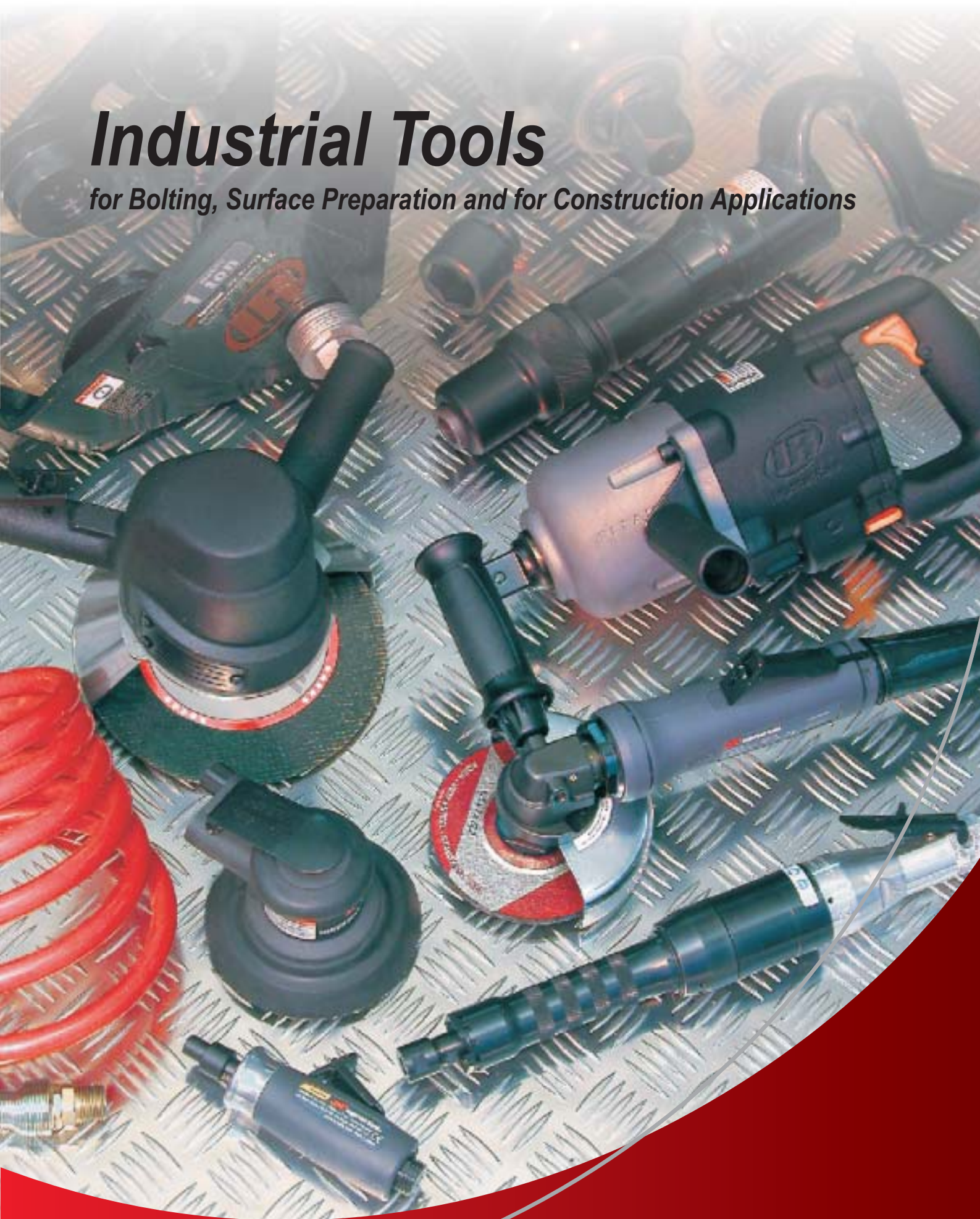


Industrial Tools

for Bolting, Surface Preparation and for Construction Applications



Impactool construction and selection

Ingersoll-Rand – leading in the field of Ergonomics

Ingersoll-Rand has provided tools for industry for more than 100 years, combining the best engineering talent, top quality materials, and the strongest support in the world. Our classic designs have set performance standards which endure today, while our latest introductions reflect emerging trends in tool use, changing technology and new materials.

1916 Ingersoll-Rand develops safety throttle and easy-to-use handles

1934 The first Impactool is developed by Ingersoll-Rand, 270 Nm of torque, without torque reaction to the operator

1972 Ingersoll-Rand introduces the Impactool Twin Hammer mechanism, which at high torque output, substantially reduces vibration to the operator

1977 Ingersoll-Rand acquires U.S. Patents for Grinder safety features: integral stainless steel guard, self-locking throttle lever, lifetime guaranteed airmotor speed regulator

1990 New standards for ergonomics and safe operation are set by the introduction of the award-winning Ingersoll-Rand Cyclone™ grinders

1992 Ingersoll-Rand wins more awards with the launch of D-Series Air and Electric Wrenches, with Ergospan™ adjustable handles for customised fit to the operator's hand size and multiple air inlet location for correct positioning and suspension.



TWIN HAMMER – Unique impact mechanism with double hammer. Patented and improved by Ingersoll-Rand.

- only four working parts – simple to maintain
- more efficient than other impact mechanisms
- balanced short impact automatic pressure-fed grease system



"JUMBO" hammer

- single hammer version of the twin hammer mechanism
- only three working parts – simple to maintain
- automatic pressure-fed grease system



Ball and Cam mechanism

- precision ball & cam mechanism converts air & electric motor torque into powerful rotary impacts
- planetary gear drive delivers smooth, constant speed from the motor, tough steel anvil transfers blows from impact to the fastener

IMPACTOOL SELECTION CHART (DIN 267 BOLT GRADE)

Grade class meaning: **first number x 10** = breaking load in kg/mm²,
second number / 10 = elastic limit to breaking load ratio.

Thread	drive	3.6	4.6	4.8	5.6	5.8	6.8	8.8	10.9	12.9
M4	7	0,85	1,1	1,5	1,4	1,9	2,3	2,9	4,1	4,9
M5	9	1,7	2,2	3,0	2,8	3,7	4,5	6,0	8,5	10
M6	10	2,9	3,8	5,1	4,8	6,4	7,7	10	14	17
M8	13	7,0	9,3	12	12	16	19	25	35	41
M10	17	14	19	25	23	31	37	49	69	83
M12	19	24	32	43	40	54	65	86	120	145
M14	22	39	51	68	64	86	105	135	190	230
M16	24	59	79	105	98	130	155	210	295	355
M18	27	81	110	145	135	180	215	290	405	485
M20	30	115	155	205	190	255	305	410	580	690
M22	32	155	205	275	260	345	415	550	780	930
M24	36	200	265	350	330	440	530	710	1000	1200
M27	41	295	390	520	490	650	780	1050	1500	1800
M30	46	395	530	710	660	880	1050	1450	2000	2400
M33	50	540	720	960	900	1200	1450	1900	2700	3250
M36	55	690	920	1250	1150	1550	1850	2450	3450	4150
M39	60	920	1200	1600	1500	2000	2400	3200	4500	5400
M42	65	1100	1500	1950	1850	2450	2950	3950	5550	6650
M45	70	1400	1850	2450	2300	3100	3700	4950	6950	8350
M48	75	1700	2250	3000	2800	3750	4450	5950	8400	10100
M52	80	2150	2900	3850	3600	4800	5750	7650	10800	12900
M56	85	2700	3600	4800	4500	5950	7150	9550	13400	16100
M60	90	3350	4450	5950	5550	7400	8900	11900	16700	20000
M64	95	4000	5350	7150	6700	8950	10700	14300	20100	24100
M68	100	4850	6500	8650	8100	10800	13000	17300	24300	29100

Note: Torque values given are for guidance only, and are estimated at 0,125 friction factor.

Light industrial impacttools

Model	Square drive [in]	Handle	Impact mechanism	Free speed [rpm]	Max. torque [Nm]	Recommended torque [Nm]	Weight [kg]	Length [mm]	Side to centre [mm]	Hose connect. NPT ¹⁾	Recommend. hose size Ø inside	Model with extended spindle
211-EU	3/8"		○	10000	240	30 – 150	1,1	149	25	1/4"	8	---
212-EU	3/8"		○	10000	240	30 – 150	1,3	140	35	1/4"	8	---
2115QTi	3/8"		⊗	15000	350 ²⁾	40 – 180	1,1	143	24	1/4"	10	---
2125QTi	1/2"		⊗	15000	350 ²⁾	40 – 180	1,1	143	24	1/4"	10	---
231GXP	1/2"		⊗	8000	610	70 – 300	2,6	185	34	1/4"	10	---
2135QTi	1/2"		⊗	9500	950 ²⁾	70 – 350	1,8	186	30	1/4"	10	2135QTi-2
2141S	3/4"		⊗	7500	1600 ²⁾	220 – 700	3,1	211	42	3/8"	13	---
261-EU	3/4"		○	5500	1500	300 – 800	5,0	224	46	3/8"	13	261-6-EU
2161XP	3/4"		○	6000	1790	400 – 1000	5,1	216	46	3/8"	13	2161XP-6
271-EU	1"		○	5500	1500	300 – 850	5,7	226	46	3/8"	13	---
2171XP	1"		○	6000	1790	400 – 1050	5,2	216	46	3/8"	13	---
2190Ti	1"		⊗	6800	2200	400 – 1100	6,3	386	45	1/2"	13	2190Ti-6
280-EU	1"		○	6000	2170	600 – 1360	9,0	330	56	1/2"	13	280-6-EU
290-EU	1"		○	6000	2170	600 – 1360	9,0	219	56	1/2"	13	290-6-EU

Specification at 620 kPa air pressure. ¹⁾ - NPT = National Pipe Thread (US standard)

²⁾ - Tools with reverse bias motor (higher power in reverse) – torque data are for reverse.



211-EU



2115QTi



231GXP



2135QTi



2141S



261-EU



2171XP



280-EU



2190Ti-6

IQ^V – Innovative Cordless Tool Series

WITH INTELLIGENT CHARGER ALLOWING TO „RENEW“ YOUR BATTERIES

- each tool works with both Lithium-Ion and Nickel Cadmium batteries (guarantee for 2 years or 1000 charges)
- one charger for all voltages and models
- impact mechanism holds four times longer (comparing to alternative battery tools)
- patented "rotate-and-clip" battery grip: reliable grip during operation or when dropped
- ribbed body and metal insert under trigger
- patented metal subframe

Model	Square drive [in]	Free speed [rpm]	Max. torque [Nm]	Recomm. torque [Nm]	Weight [kg]
W040 (-xx)	1/4"	2200	200	2 - 30	1,2
W150 (-xx)	3/8"	2200	200	40-100	2,1
W360 (-xx)	1/2"	2200	490	40-200	2,8

To order a set with intelligent charger & NiCd or Lilon battery add -N, -L, (-2N, -2L for two batteries). Weight with Lilon battery.



W040



W360

Heavy industrial impacttools

Model	Square drive [in]	Handle	Impact mechanism	Free speed [rpm]	Max. torque [Nm]	Recommended torque [Nm]	Weight [kg]	Length [mm]	Side to centre [mm]	Hose connect. NPT ¹⁾	Recommend. hose size Ø inside	Alternative model
2115PTi	3/8"			15000	380 ²⁾	40 – 150	1,1	143	24	1/4"	10	2125PTi (1/2")
2115P4Ti	1/4"			15000	350 ²⁾	40 – 150	1,1	143	24	1/4"	10	
2135PTi	1/2"			9500	950 ²⁾	70 – 350	1,8	186	30	1/4"	10	
2141P	3/4"			7250	1600 ²⁾	220 – 700	3,1	211	42	3/8"	13	
2925P3Ti	1"			5200	1970	480 – 1500	5,4	225	44	3/8"	13	2925P1Ti (3/4")
2925B2Ti	1"			6500	2170	480 – 1900	6,4	314	41	3/8"	13	
2925RBP3Ti	1"			5200	2170 ²⁾	540 – 1900 ²⁾	5,4	225	44	3/8"	13	2925RBP1Ti(3/4")
2925RB2Ti	1"			6500	2300 ²⁾	540 – 2030 ²⁾	6,4	314	41	3/8"	13	
3940B2Ti	1"			6000	3700 ²⁾	1100 – 2400 ²⁾	9,6	343	59	1/2"	19	3940A2Ti - see ³⁾
3940P2Ti	1"			6000	3700 ²⁾	1100 – 2400 ²⁾	10	256	59	1/2"	19	
3942B2Ti	1"			5000	4400 ²⁾	1300 – 2800 ²⁾	10,5	362	59	1/2"	19	3942A2Ti - see ³⁾
3955B2Ti	1 1/2"			3500	6600	2200 – 5300 ²⁾	15,7	419	67	1/2"	19	3955A2Ti - see ³⁾
5980A1-EU	1 1/2"			830	13560	3390 – 7460	39,9	584	78	3/4"	25	
5982A1-EU	2 1/2"			830	27120	5424 – 13560	54,5	645	89	3/4"	25	
588A1-EU	2 1/2"			355	67800	16270 – 33900	97,5	678	101	1"	25	
599A1-EU	3 1/2"			295	108500	35250 – 57000	272,0	952	171	1 1/4"	38	
INDUSTRIAL IMPACTTOOLS WITH ANGLE HEADS												
2920B9-EU	3/4"			5000	940	200 – 680	10,8	445	33	1/2"	13	
2934B9-EU	1"			5300	1200	680 – 890	16,2	473	41	1/2"	19	
ATEX CERTIFIED TOOLS FOR COAL MINES (Ex I M2c IIB 95 CX and II 2GDc IIB 95 CX)												
2141PSP	3/4"			7250	1600 ²⁾	220 700	3,1	211	42	3/8"	13	2151P1SP (1")
2934B2SP-EU	1"			6600	2030	678 – 1490	10,8	286	56	1/2"	19	
2940B2SP-EU	1"			5000	2710	1360 – 2170	12,9	311	56	1/2"	19	



2925RBP3Ti



3940P2Ti



2934B2SP-EU

Model	ØA	B	C
2920B9-EU	67	78	46
2934B9-EU	80	97	65



2920B9-EU



5982A-EU

Extended warranty kits available for 3940/3942 series:

Ingersoll-Rand offers an extended two-year warranty program for the impact mechanism with the purchase of the Ingersoll-Rand extended warranty kit. The extended warranty kit includes a hose whip with swivel, in-line lubricator, two couplers, oil, grease, and titanium gloves.

3900-XW1-M - with medium gloves

3900-XW1-L - with large gloves

3900-XW1-XL - with XL gloves

Reverse Biased Bronze Endplates
for the ultimate in corrosion and wear resistance

Ergonomic Handle
improves operator comfort

High Performance Motor
package includes 7-vane rotor

Twin Hammer Mechanism
is the strongest, most durable, longest life mechanism in the industry

Titanium Hammer Case
increases strength, reduces weight, and provides exceptional corrosion resistance

Laser-Etched
product information lasts the life of the tool



Integrated Reverse Lever
provides protection in the most abusive applications

Integrated Muffler
is protected from rough handling

¹⁾ - NPT = National Pipe Thread (US standard)

²⁾ - Tools with reverse bias motor (higher power in reverse) – torque data are for reverse.

³⁾ - Letter "B" in impacttool part number corresponds to inside trigger, "A" outside trigger.

Specification at 620 kPa air pressure. All industrial impact tools are with through hole or pin socket retaining

Impactool accessories



IMPACTOOL SOCKETS – SQ. DRIVE ■ 3/8"

Standard	Dimensions	Extended	Dimensions
6 S63M6	Ø11/19 x 30	---	---
7 S63M7	Ø12,5/19 x 30	S63M7L	Ø12,5/19 x 65
8 S63M8	Ø13,8/19 x 30	S63M8L	Ø13,8/19 x 65
9 S63M9	Ø15/19 x 30	S63M9L	Ø15/19 x 65
10 S63M10	Ø16/19 x 30	S63M10L	Ø16/19 x 65
11 S63M11	Ø17,5/19 x 30	S63M11L	Ø17,5/19 x 65
12 S63M12	Ø19/19 x 30	S63M12L	Ø19/19 x 65
13 S63M13	Ø20/22 x 30	S63M13L	Ø20/22 x 65
14 S63M14	Ø21/22 x 30	S63M14L	Ø21/22 x 65
15 S63M15	Ø22/22 x 30	S63M15L	Ø22/22 x 65
16 S63M16	Ø24/22 x 30	S63M16L	Ø24/22 x 65
17 S63M17	Ø25/22 x 30	S63M17L	Ø25/22 x 65
18 S63M18	Ø26/22 x 30	S63M18L	Ø26/22 x 65
19 S63M19	Ø27,5/22 x 30	S63M19L	Ø27,5/22 x 65
20 S63M20	Ø28/22 x 30	S63M20L	Ø28/22 x 65
21 S63M21	Ø30/22 x 30	S63M21L	Ø30/22 x 65
22 S63M22	Ø32/22 x 30	S63M22L	Ø32/22 x 65

IMPACTOOL SOCKETS – SQ. DRIVE ■ 1/2"

Standard	Dimensions	Extended	Dimensions
8 S64M8	Ø15/25 x 38	S64M8L	Ø15/25 x 78
9 S64M9	Ø16/25 x 38	S64M9L	Ø16/25 x 78
10 S64M10	Ø17,5/25 x 38	S64M10L	Ø17,5/25 x 78
11 S64M11	Ø18,7/25 x 38	S64M11L	Ø18,7/25 x 78
12 S64M12	Ø20/25 x 38	S64M12L	Ø20/25 x 78
13 S64M13	Ø21/25 x 38	S64M13L	Ø21/25 x 78
14 S64M14	Ø22,5/25 x 38	S64M14L	Ø22,5/25 x 78
15 S64M15	Ø23,7/30 x 38	S64M15L	Ø23,7/30 x 78
16 S64M16	Ø25/30 x 38	S64M16L	Ø25/30 x 78
17 S64M17	Ø26/30 x 38	S64M17L	Ø26/30 x 78
18 S64M18	Ø27,5/30 x 38	S64M18L	Ø27,5/30 x 78
19 S64M19	Ø28,7/30 x 38	S64M19L	Ø28,7/30 x 78
20 S64M20	Ø30/30 x 38	S64M20L	Ø30/30 x 78
21 S64M21	Ø30/30 x 38	S64M21L	Ø30/30 x 78
22 S64M22	Ø32/30 x 38	S64M22L	Ø32/30 x 78
23 S64M23	Ø32/30 x 38	S64M23L	Ø32/30 x 78
24 S64M24	Ø35/30 x 38	S64M24L	Ø35/30 x 78
25 S64M25	Ø36/30 x 45	S64M25L	Ø36/30 x 78
26 S64M26	Ø38/30 x 45	S64M26L	Ø38/30 x 78
27 S64M27	Ø38,7/30 x 50	S64M27L	Ø38,7/30 x 78
28 S64M28	Ø40/30 x 50	S64M28L	Ø40/30 x 78
29 S64M29	Ø40/30 x 50	S64M29L	Ø40/30 x 78
30 S64M30	Ø42/30 x 50	S64M30L	Ø42/30 x 78
32 S64M32	Ø44/30 x 50	S64M32L	Ø44/30 x 78
33 S64M33	Ø45/30 x 50	S64M33L	Ø45/30 x 78
36 S64M36	Ø49/30 x 50	S64M36L	Ø49/30 x 78

IMPACTOOL SOCKETS – SQ. DRIVE ■ 3/4"

Standard	Dimensions	Extended	Dimensions
17 S66M17	Ø31/44 x 50	S66M17L	Ø31/44 x 95
19 S66M19	Ø33/44 x 50	S66M19L	Ø33/44 x 95
21 S66M21	Ø35/44 x 50	S66M21L	Ø35/44 x 95
22 S66M22	Ø37/44 x 50	S66M22L	Ø37/44 x 95
23 S66M23	Ø38/44 x 50	S66M23L	Ø38/44 x 95
24 S66M24	Ø39/44 x 50	S66M24L	Ø39/44 x 95
25 S66M25	Ø40/44 x 50	S66M25L	Ø40/44 x 95
26 S66M26	Ø41/44 x 50	S66M26L	Ø41/44 x 95
27 S66M27	Ø43/44 x 54	S66M27L	Ø43/44 x 95
28 S66M28	Ø44/44 x 54	S66M28L	Ø44/44 x 95
29 S66M29	Ø45/44 x 54	S66M29L	Ø45/44 x 95
30 S66M30	Ø47/44 x 54	S66M30L	Ø47/44 x 95
31 S66M31	Ø48/44 x 56	S66M31L	Ø48/44 x 95
32 S66M32	Ø49/44 x 56	S66M32L	Ø49/44 x 95
33 S66M33	Ø51/44 x 56	S66M33L	Ø51/44 x 95
34 S66M34	Ø52/44 x 56	S66M34L	Ø52/44 x 95
35 S66M35	Ø53/44 x 56	S66M35L	Ø53/44 x 95
36 S66M36	Ø54/44 x 56	S66M36L	Ø54/44 x 95
38 S66M38	Ø57/44 x 58	S66M38L	Ø57/44 x 95
40 S66M40	Ø58/44 x 58	S66M40L	Ø58/44 x 95
41 S66M41	Ø60/44 x 58	S66M41L	Ø60/44 x 95
42 S66M42	Ø62/44 x 58	S66M42L	Ø62/44 x 95
43 S66M43	Ø63/44 x 63	S66M43L	Ø63/44 x 95
46 S66M46	Ø67/44 x 63	S66M46L	Ø67/44 x 95
50 S66M50	Ø71/44 x 72	S66M50L	Ø71/44 x 95

IMPACTOOL SOCKETS – SQ. DRIVE ■ 1"

Standard	Dimensions	Extended	Dimensions
19 S68M19	Ø35,5/54 x 58	S68M19L	Ø35,5/54 x 100
21 S68M21	Ø37,5/54 x 58	S68M21L	Ø37,5/54 x 100
22 S68M22	Ø40/54 x 58	S68M22L	Ø40/54 x 100
23 S68M23	Ø41/54 x 58	S68M23L	Ø41/54 x 100
24 S68M24	Ø42/54 x 58	S68M24L	Ø42/54 x 100
25 S68M25	Ø43/54 x 58	S68M25L	Ø43/54 x 100
26 S68M26	Ø44,5/54 x 58	S68M26L	Ø44,5/54 x 100
27 S68M27	Ø46/54 x 58	S68M27L	Ø46/54 x 100
28 S68M28	Ø47/54 x 58	S68M28L	Ø47/54 x 100
29 S68M29	Ø48/54 x 60	S68M29L	Ø48/54 x 100
30 S68M30	Ø50/54 x 60	S68M30L	Ø50/54 x 100
32 S68M32	Ø52/54 x 60	S68M32L	Ø52/54 x 100
33 S68M33	Ø53/54 x 60	S68M33L	Ø53/54 x 100
35 S68M35	Ø55/54 x 62	S68M35L	Ø55/54 x 100
36 S68M36	Ø56/54 x 65	S68M36L	Ø56/54 x 100
38 S68M38	Ø59/54 x 65	S68M38L	Ø59/54 x 100
41 S68M41	Ø63/54 x 67	S68M41L	Ø63/54 x 100
42 S68M42	Ø64/54 x 74	S68M42L	Ø64/54 x 100
46 S68M46	Ø69/54 x 74	S68M46L	Ø69/54 x 100
50 S68M50	Ø74/54 x 80	S68M50L	Ø74/54 x 100
52 S68M52	Ø77/54 x 84	S68M52L	Ø77/54 x 100
55 S68M55	Ø80/54 x 84	S68M55L	Ø80/54 x 100
60 S68M60	Ø86/54 x 87	S68M60L	Ø86/54 x 120
65 S68M65	Ø92/54 x 90	S68M65L	Ø92/54 x 125
70 S68M70	Ø99/54 x 96	S68M70L	Ø99/54 x 125
75 S68M75	Ø104/86 x 98	S68M75L	Ø104/86 x 135
80 S68M80	Ø109/86 x 100	S68M80L	Ø109/86 x 135

IMPACTOOL SOCKETS – SQ. DRIVE ■ 1 1/2"

Standard	Dimensions	Extended	Dimensions
41 S612M41	Ø70/86 x 80	S612M41L	Ø72/86 x 115
42 S612M42	Ø71/86 x 80	---	---
46 S612M46	Ø76/86 x 84	S612M46L	Ø78/86 x 115
50 S612M50	Ø81/86 x 87	S612M50L	Ø81/86 x 135
54 S612M54	Ø86/86 x 90	---	---
55 S612M55	Ø86/86 x 90	---	---
60 S612M60	Ø93/86 x 92	S612M60L	Ø94/86 x 150
65 S612M65	Ø97/86 x 95	S612M65L	Ø100/86 x 150
70 S612M70	Ø105/86 x 100	S612M70L	Ø106/86 x 160
75 S612M75	Ø110/86 x 103	S612M75L	Ø112/86 x 170
80 S612M80	Ø116/86 x 110	S612M80L	Ø118/86 x 170
85 S612M85	Ø125/86 x 118	S612M85L	Ø125/86 x 170
90 S612M90	Ø130/86 x 118	---	---
95 S612M95	Ø137/95 x 118	---	---
100 S612M100	Ø140/95 x 125	---	---
105 S612M105	Ø150/95 x 125	---	---
110 S612M110	Ø156/95 x 125	---	---
115 S612M115	Ø160/95 x 135	---	---

IMPACTOOL SOCKETS – SQ. DRIVE ■ 2 1/2"

Standard	Dimensions	Standard	Dimensions
75 S622M75	Ø118/127x140	105 S622M105	Ø155/127x155
80 S622M80	Ø124/127x140	110 S622M110	Ø161/127x160
85 S622M85	Ø130/127x140	115 S622M115	Ø167/127x165
90 S622M90	Ø136/127x145	120 S622M120	Ø176/127x170
95 S622M95	Ø143/127x145	125 S622M125	Ø181/127x175
100 S622M100	Ø149/127x150	130 S622M130	Ø188/127x175



POWER UNIVERSAL JOINTS

Square drive	Model	Dimensions
3/8"	J3	Ø24 x 50
1/2"	J4	Ø32 x 60
3/4"	J6	Ø44 x 105
1"	J8	Ø54 x 133
1 1/2"	J12	Ø86 x 182

POWER DRIVE EXTENSION

Square drive	Model	Ø	Length
3/8"	E375MM	19	75
3/8"	E3125MM	19	150
3/8"	E3250MM	19	250
1/2"	E475MM	25	75
1/2"	E4125MM	25	125
1/2"	E4250MM	25	250
3/4"	E6175MM	44	175
3/4"	E6250MM	44	250
3/4"	E6330MM	44	330
1"	E8175MM	54	175
1"	E8250MM	54	250
1"	E8330MM	54	330
1 1/2"	E12125MM	86	125
1 1/2"	E12250MM	86	250
1 1/2"	E12500MM	86	500



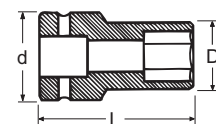
POWER SOCKET ADAPTER

Female	Male	Model	Ø	Length
1/4"	3/8"	A2F3M	13,6	26
3/8"	1/4"	A3F2M	22	32
3/8"	1/2"	A3F4M	22	36
1/2"	3/8"	A4F3M	25	38
1/2"	3/4"	A4F6M	30	48
3/4"	1/2"	A6F4M	44	56
3/4"	1"	A6F8M	44	63
1"	3/4"	A8F6M	54	75
1"	1 1/2"	A8F12M	54	90
1 1/2"	1"	A12F8M	86	100
2 1/2"	1 1/2"	A22F12M	127	138



SOCKET RETAINER RETENTION RINGS

Model	Socket Ø	Remarks	Socket drive
RR10003	19	set 10 pcs	3/8"
RR10005	22	set 10 pcs	3/8"
RR10007	25	set 10 pcs	1/2"
RR10008	30	set 10 pcs	1/2"
RR10008S	44	1 pce	3/4"
RR10015S	54	1 pce	1"
RR10025S	86	1 pce	1", 1 1/2"
RR10030S	95	1 pce	1 1/2"



THIN WALL SOCKETS FOR ■ 1" DRIVE

Part no.	D	d	L
24 S6T8M24L	38	54	100
27 S6T8M27L	42,5	54	100
30 S6T8M30L	45	54	100
32 S6T8M32L	47	54	100
33 S6T8M33L	49	54	100
36 S6T8M36L	52	54	100

Imperial size, inside & outside Torx, outside hexagon sockets, socket for larger bolt head sizes, socket sets, socket for 3 1/2" square drive available on request.

G series die grinders

Model	Free speed [rpm]	Rated power [kW]	Weight [kg]	Length [mm]	Side to centre distance [mm]
PENCIL GRINDER with 1/8" collet					
DG600G2-EU	60000	0,08	0,07	136	9
TURBINE GRINDER - BRAND NAME „ARO“					
7980-A-EU	85000	0,08	0,4	143	14
DIE GRINDERS with 6 mm collet					
G1H350PG4M	35000	0,3	0,41	156	23
G1H250PG4M	25000	0,3	0,41	156	23
G1H200PG4M	20000	0,3	0,41	156	23
G2H250PG4M	25000	0,6	0,73	187	27
G3H150PG4M	15000	1,0	1,04	228	29
G3H180PG4M	18000	1,0	1,04	228	29
EXTENDED DIE GRINDERS with 6 mm collet					
G1X350PG4M	35000	0,3	0,59	232	22
G1X250PG4M	25000	0,3	0,59	232	22
G1X200PG4M	20000	0,3	0,59	232	22
G2X250PG4M	25000	0,6	1,22	308	22
G2X200PG4M	20000	0,6	1,22	308	27
G2X180PG4M	18000	0,6	1,22	308	27
G3X180PG4M ¹⁾	18000	1,0	1,68	359	29
G3X150PG4M ¹⁾	15000	1,0	1,68	359	29
ANGLE DIE GRINDERS with 6 mm collet					
G1A200PG4M	20000	0,3	0,5	152	14
G1A120PG4M	12000	0,3	0,5	152	14
G2A180PG4M	18000	0,6	1,04	197	19
G2E135PG4M	13500	0,6	1,18	264	14
G2A120PG4M	12000	0,6	1,04	197	19
G2A100PG4M	10000	0,6	1,04	197	19
G3A120PG4M	12000	1,0	1,7	241	20

¹⁾ - With reinforced bearings, and possibility to fit 8 mm collet G160HD-700-8MM.

DG600G2-EU
Twist throttle. Delivered with 1,8 m inlet hose & exhaust hose
DG600G2K-EU kit with set of 6 grinding burrs also available



7980-A-EU
Twist throttle. Delivered with inlet hose and filter 39830.



G1H350PG4M

G1X350PG4M



G3X180PG4M



G2E135PG4M



G2A180PG4M



G1A200PG4M

Separate, replaceable cylinder lowers repair cost

Easy to service one nut removal for motor repair

Ergonomic low profile locking throttle lever for operator safety

Industry standard Erickson collet

Easy interchangeable rear / front exhaust

Ergonomic D-shaped handle design for operator comfort

Laser etched product information will not wear off

Piped-Away Exhaust as standard to keep exhaust air away from the operator and to reduce noise level

- Better durability with minimum 500 hours for all components, 2000 h for angle head.
- Improved efficiency means big power in a small package.
- Contamination free air controller to help to maintain the speed (for G3 series).

Specification at 620 kPa. Air inlet – 1/4" NPT (G3 series 3/8", DG600G2 & 7980-A-EU - 1/8"). Recommended hose size 10 mm ("G1" and "G2" series), 13 mm ("G3" series), 6 mm (DG600G2 & 7980-A-EU). Standard collet size 6 mm, except DG600G2 & 7980-A-EU - 1/8"). Optional collet for „G1" series: DG110-700-G2 (3 mm), for „G2" & „G3" series: DG121-700-M8 (8 mm), for DG600G2-EU: 47568-1 (1/8"), 47568-2 (3 mm), 47568-3 (3/32").

Revolution 300 series grinders

Revolution 300 series grinders features

- compact & ergonomic composite „warm“ handle fitted to the operator's hand
- very quiet: 77dBa, and with low vibration level
- compact rotatable head with removable cover on angle tools
- with 1/4" (6 mm) collet or 3/8"-24 spindle and 3" guard
- optional piped-away exhaust



Configuration	Model number	Max. free speed [rpm]	Weight [kg]	Length [mm]	Height over spindle [mm]
Straight	335SC4	35 000	0,37	152	-----
	330SC4	30 000	0,37	152	-----
	325SC4	25 000	0,37	152	-----
Extended	330XC4	30 000	0,57	230	-----
	325XC4	25 000	0,57	230	-----
Angle with collet	320AC4	20 000	0,51	156	64
	314AC4	14 000	0,51	156	64
	312AC4	12 000	0,51	156	64
Angle with guard	320AG4	20 000	0,63	160	64
	314AG4	14 000	0,63	160	64
	312AG4	12 000	0,63	160	64

Side to centre distance for all 300 series grinders is 19 mm.

Air inlet 1/4" NPT – recommended air hose Ø 8 mm.

All grinders are 220 W. Performance at 620 kPa air pressure.



335SC4

G series wheel grinders



G2X180PH63

G1H250PH63

G1A200PP63

Model	Free speed [rpm]	Rated power [kW]	Weight [kg]	Length [mm]	Side to centre [mm]	Spindle thread [inches]	Wheel capacity D x T x b (type) [mm]
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G-SERIES HORIZONTAL GRINDERS WITH GUARD

G1H250PH63	25000	0,3	0,54	156	22	3/8"-24	76x6,5x10 (1)
G2S180PH63	18000	0,6	1,22	219	27	3/8"-24	76x13x10 (1)

EXTENDED HORIZONTAL GRINDERS WITH GUARD

G2X180PH63	18000	0,6	1,45	314	27	3/8"-24	76x13x10 (1)
G3X180PH63	18000	1,0	2,04	359	29	3/8"-24	76x13x10 (1)
G3X150PH64	15000	1,0	2,04	359	29	3/8"-24	100x6,5x16 (27)

ANGLE GRINDERS WITH GUARD

G1A200PP63	20000	0,3	0,59	152	18	3/8"-24	76x6,5x10 (27)
G2A180PP63	18000	0,6	1,41	197	24	3/8"-24	76x6,5x10 (27)
G2A150PP74	15000	0,6	1,36	197	24	3/8"-24	100x6,5x16 (27)
G2E135PP74	13500	0,6	1,36	264	18	3/8"-24	100x6,5x16 (27)
G2A120PP74	12000	0,6	1,36	197	24	3/8"-24	100x6,5x16 (27)
G2A120PP945	12000	0,6	1,45	197	24	M14x2	115x6,5x22,2 (27)
G2A120PP95	12000	0,6	1,63	197	24	M14x2	125x6,5x22,2 (27)
G2L100PP96	10000	0,6	2,00	321	24	M14x2	150x6,5x22,2 (27)
G3A120PP945A ¹⁾	12000	1,0	2,09	244	25	M14x2	115x6,5x22,2 (27)
G3A120PP95A ¹⁾	12000	1,0	2,13	244	25	M14x2	125x6,5x22,2 (27)
G3A100PP96A ¹⁾	10000	1,0	2,22	244	25	M14x2	150x6,5x22,2 (27)
G2L086PP95	8600	1,0	2,3	330	25	M14x2	125x6,5x22,2 (27)

¹⁾ - Equipped with autobalancer limiting wear of the grinding wheel and vibration to 0,9-1,2 m/s².



G2A120PP95



G3A120PP95

Specification at 620 kPa. Air inlet – 1/4" NPT. Recommended hose size 10 mm ("G1" & "G2" series), 13 mm ("G3" series).

„ErgoPro™” series vertical, angle and horizontal grinders

Model	Free speed [rpm]	Rated power [kW]	Weight [kg]	Length [mm]	Side to centre [mm]	Spindle thread [inches]	Maximum wheel capacity [mm]
“ErgoPro™” VERTICAL DISC WHEEL GRINDERS							Model 27 – D x T x b
88V85P107M-EU	8500	1,6	4,0	155	54	5/8"-11	180 x 6,5 x 22,2
88V60P107M-EU	6000	1,5	4,0	155	54	5/8"-11	180 x 6,5 x 22,2
88V60P109M-EU	6000	1,5	4,1	155	54	5/8"-11	230 x 6,5 x 22,2
99V85P107M-EU	8500	2,2	4,9	175	59	5/8"-11	180 x 6,5 x 22,2
99V60P107M-EU	6000	2,2	4,9	175	59	5/8"-11	180 x 6,5 x 22,2
99V60P109M-EU	6000	2,2	5,2	175	59	5/8"-11	230 x 6,5 x 22,2
“ErgoPro™” VERTICAL CUP WHEELGRINDERS							Model 11 – D/D1 x T x b
88V60S106M-EU	6000	1,5	3,8	155	54	5/8"-11	125/100 x 50 x 22,2
99V60S106M-EU	6000	2,2	4,9	175	59	5/8"-11	150/120 x 50 x 22,2
“ErgoPro™” ANGLE DISC WHEEL GRINDERS							Model 27 – D x T x b
77A75P107M-EU	7500	1,1	4,1	446	33	5/8"-11	180 x 6,5 x 22,2
77A60P107M-EU	6000	1,1	4,1	446	33	5/8"-11	180 x 6,5 x 22,2
77A60P109M-EU	6000	1,1	4,2	446	33	5/8v-11	230 x 6,5 x 22,2

Model	Free speed [rpm]	Rated power [kW]	Weight [kg]	Length [mm]	Front diameter [mm]	Max. Ø of burrs [mm]	Max. Ø of mounted wheels [mm]
DIE GRINDERS WITH 1/4" COLLET							
61H150G4-EU	15000	0,99	1,9	394	37	32	50
61H120G4-EU	12000	0,93	1,9	394	37	32	50
CONE WHEEL SPINDLE GRINDERS						Spindle thread	Max. Ø of mounted wheels
61H150L6-EU	15000	0,97	2,0	375	37	3/8"-24	45
61H120L6-EU	12000	0,93	2,0	375	37	3/8"-24	45
77H120L10-EU	12000	1,10	2,7	418	48	5/8"-11	50
77H90L10-EU	9000	1,10	2,7	418	48	5/8"-11	50
HORIZONTAL “ErgoPro™” GRINDERS FOR DISC WHEELS							Model 1 – D x T x b
61H120H63-EU	12000	0,93	2,1	400	37	3/8"-24	76 x 13 x 10
77H120H84-EU	12000	1,10	3,2	438	48	1/2"-13	100 x 25 x 13
88HL60H106-EU	6000	1,49	5,1	508	43	5/8"-11	150 x 25 x 16
99HL60H106-EU	6000	2,24	6,1	521	49	5/8"-11	150 x 25 x 16
99HL45H108-EU	4500	1,75	6,7	514	49	5/8"-11	200 x 25 x 16



88V60P109M-EU



88V60S106M-EU



61H120G4-EU

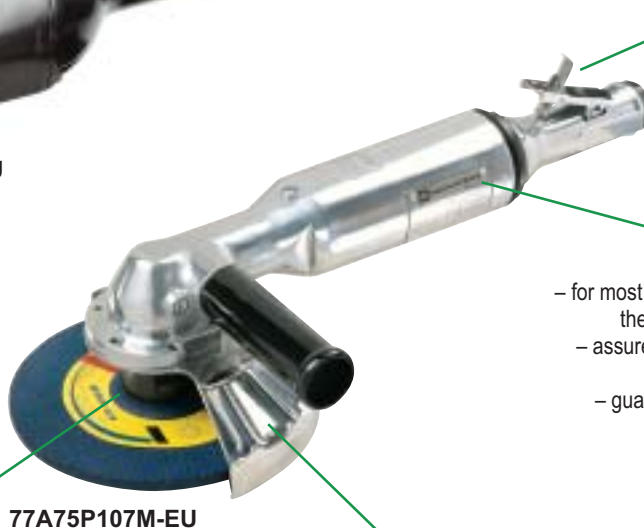
ERGOPRO™ = SAFETY AND ERGONOMICS



99HL45H108-EU



Autobalancer – compensates for the unbalance and wear of the grinding wheels used and considerably reduces vibration.



77A75P107M-EU

Integral Guard
– the tool will not run if the safety guard is removed.

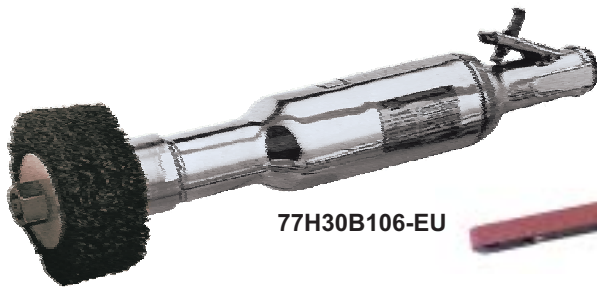
Locking Throttle Lever
– prevents accidental throttle operation

Patented motor controller
– for most efficient material removal and the lowest wear of grinding discs
– assures constant maximum allowed speed at different loads
– guaranteed for the life of the tools



Specification at 620 kPa. Air inlet 3/8" NPT (61,77 series), 1/2" NPT (88, 99 series). Recommended hose size: 13 mm (61, 77 series), 19 mm (88, 99 series)

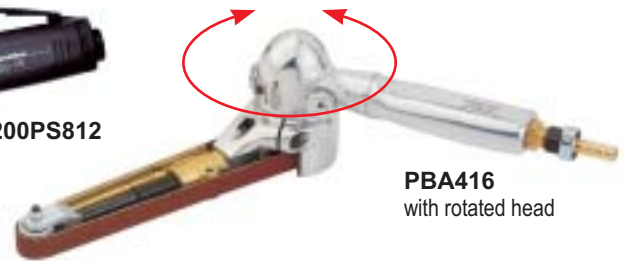
Sanders and polishers



77H30B106-EU



G1A200PS812



PBA416
with rotated head

Model	Free speed [rpm]	Rated power [kW]	Weight [kg]	Length [mm]	Height [mm]	Side to centre [mm]	Spindle end / belt size [inches]
STRAIGHT "ErgoPro" SANDERS							
77H50B106-EU	5000	1,10	3,3	449	---	48	5/8"-11 x 2"
77H30B106-EU	3000	1,10	3,3	449	---	48	5/8"-11 x 2"
G-SERIES BELT SANDERS							
G1A200PS812	20000	0,3	0,54	273	65	16	Belt size 13 x 305
G1A120PS812	12000	0,3	0,54	273	65	16	13 x 305
G1A120PS418	12000	0,3	0,54	356	65	16	6 x 457
PBA416	14800	0,22	1,05	---	65	---	15 x 475
VERTICAL SANDERS "7" & "ErgoPro" SERIES							
7S60L-EU	6000	0,6	2,0	178	161	30	Spindle end 5/8"-11
7S48L-EU	4800	0,6	2,0	178	161	30	5/8"-11
7S30L-EU	3000	0,6	2,0	178	161	30	5/8"-11
7S24L-EU	2400	0,6	2,0	178	161	30	5/8"-11
88S60W107-EU	6000	1,5	2,8	224	152	54	5/8"-11
88S45W107-EU	4500	1,3	2,8	224	152	54	5/8"-11
ANGLE SANDERS							
POLA15000	15000	0,22	0,65	---	90	---	Spindle end 6 mm collet
G1A200PS4M	20000	0,3	0,5	156	56	14	1/4"-20
G1A120PS4M	12000	0,3	0,5	156	56	14	1/4"-20
G2L100PS10	10000	0,6	1,77	321	65	19	5/8"-11
G3L086PS10 ¹⁾	8600	1,0	1,9	330	76	20	5/8"-11
ANGLE SANDERS "ErgoPro" SERIES							
77A60W107-EU	6000	1,1	3,5	446	78	33	Spindle end 5/8"-11
77A45W109-EU	4500	1,1	3,5	446	78	33	5/8"-11
77A25F107-EU	2500	1,1	3,8	446	78	33	5/8"-11

¹⁾ - This angle tool is suitable for both sanding wheels and the wire brushes.



7S60L-EU



88S60W107-EU



G1A200PS4M



POLA15000



G3L086PS10



77A60W107-EU

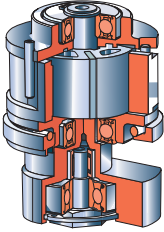


G2L100PS10

Specification at 620 kPa. Air inlet: 1/4" NPT (series 7, G1, G2, POLA & PBA), 3/8"NPT (series G3, 77), 1/2"NPT (series 88).
Recommended hose size: 10 mm (series 7, G1, G2), 13 mm (series G3, 77, POLA & PBA), 19 mm (series 88).

"Cyclone" random orbital sanders

- Ergonomic handle to better fit operators' hand three sizes for interchangeable rubber grip rings allow custom fit to operator hand size.
- Hook&loop sanding pads available on request.
- Lightweight composite housing.
- New light & powerful airmotor from composite materials.



R026B-VLV-1



R025B-PSV-1

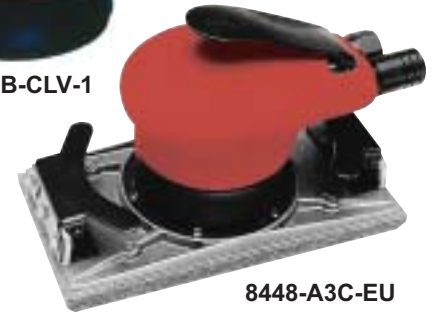


R035A-CSV-EU

Effective self-acting „CycloVac™“ dust extraction.
Kit RSVK-6 (RSVK-5) to convert R026B (R025B) from non-vac to vacuum



RS23B-CLV-1



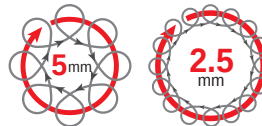
8448-A3C-EU

Non-vacuum with short shroud	Vacuum ready with short shroud	„Cyclovac™“ self-acting dust extraction with long shroud	Free speed [rpm]	Rated power [kW]	Pad size [mm]	Weight [kg]
“SELECT” SERIES RANDOM ORBITAL SANDERS						
R025B-PSV-1 ¹⁾	R025B-CSV-1 ^{1) 2)}	R025B-VLV-1 ¹⁾	12000	0,15	127	0,83
R026B-PSV-1 ¹⁾	R026B-CSV-1 ^{1) 2)}	R026B-VLV-1 ¹⁾	12000	0,15	152	0,87
“STANDARD” SERIES RANDOM ORBITAL SANDERS						
R035A-PSV-EU	R035A-CSV-EU	R035A-VLV-EU	10000	0,23	127	1,00
R036A-PSV-EU	R036A-CSV-EU	R036A-VLV-EU	10000	0,23	152	1,00
“MINI” SERIES RANDOM ORBITAL SANDERS – BRAND NAME “ARO”						
RS23B-PLV-1 ³⁾	RS23B-CLV-1 ³⁾	RS23B-VLV-1	12000	0,15	89	0,83

¹⁾ - Sanders are with 5 mm eccentric as standard. For R025B and R026B replace digit “1” with “2” for 2,5 mm eccentric.

²⁾ - Also with long shroud – replace “CSV” with “CLV”.

³⁾ - RS23B available with long shroud only.



All sanders with 5/16"-24 female spindle thread and vinyl sanding pad as standard

Sanding pads	Vacuum Hook&Loop	Vacuum petal pattern	Vacuum Ø15,9 mm	Duck face Ø9,5 mm	Vinyl face Ø9,5 mm	Duck face Ø15,9 mm	Vinyl face Ø15,9 mm
Ø 89 mm	---	04334009	---	---	---	---	---
Ø 127 mm	04330916	49096-1	46862	49877-1	49878-1	46866	46860
Ø 152 mm	49835	49099-1	46863	49880-1	49879-1	46867	46861

ORBITAL SANDER – BRAND NAME “ARO”

Model	Free speed [1/min.]	Sanding pad [mm]	Eccentricity [mm]	Weight [kg]
8448-A3C-EU	8.000	90x170	5,1	1,6

Electrode dressers

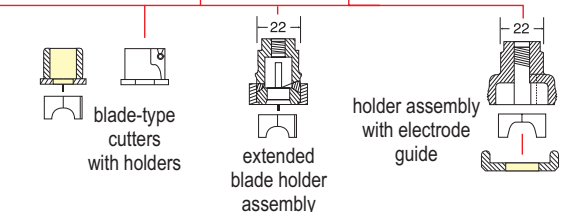
Economical solution to dressing electrode tips quick and easy way to improve welds quality and uniformity, reduce energy consumption during welding processes and to extend electrode life.

Model	Free speed [rpm]	Side to centre [mm]	Head width [mm]	Head height [mm]	Length [mm]	Weight [kg]
7165-B-EU	1500	25	38	19	270	1,5
8040-E-EU	1000	29	48	13	359	1,9
8039-E-EU	450	29	48	13	359	2,4
8038-E-EU	250	29	48	13	359	2,4

All dressers are lever start with rear air exhaust (side air exhaust in 7165).



8040-E-EU



holder assembly
with electrode
guide



7165-B-EU

Specification at 620 kPa. Air inlet 1/4" NPT. Recommended inlet hose Ø 8 mm for both sanders and electrode dressers.

Engraving pen, scalers, lightweight hammers, chippers

ENGRAVING PEN	Weight [kg]	Length [mm]	Side to centre [mm]	Blows per minute [1/min.]	Air inlet NPT	Recommended hose size [mm]
EP50-EU	0,14	137	6	18.750	1/8"	Ø 5

Standard equipment: universal stylus EP50-516. Optional equipment (at extra price): fine point stylus EP50-515 (black), coarse point stylus EP50-517 (green), flexible hose with 1/8" NPT fittings, stylus collet EP50-514.

EP50K-EU kit includes: EP50-EU pen, three stylus, flexible hose with 1/8" NPT fittings, carrying case.

SCALERS	Handle	Weight less chisel [kg]	Overall length [mm]	Piston stroke [mm]	Bore dia. [mm]	Blows per minute [1 / min.]
172L-EU	straight / lever	1,7	194	14	24	5500
182G-EU	grip	2,4	325	27	24	4000
182L-EU ¹⁾	straight / lever	1,8	229	27	24	4000

NEEDLE SCALERS

172LNA1-EU	straight / lever	2,4	349	14	24	5500
182LNA1-EU ¹⁾	straight / lever	2,6	381	27	24	4000

¹⁾ - 182K-EU kit includes: ♦ carrying case, ♦ 182L-EU scaler, ♦ NS11A needle attachment,

♦ NS11-122-19 set of extended needles, ♦ NS11-22-19 set of replacement needles

♦ WF-14A-6 1/8 angle chisel, ♦ WF-14F-7 flat chisel, ♦ WF-14B-6 1/8 straight chisel

NEEDLE ATTACHMENTS	127mm (5") steel needles	127mm (5") beryllium copper needles	127mm (5") stainless steel needles	178mm (7") extended steel needles
Optional equipment at extra price				
Round needle housing ●	NS11A	NS11AB	NS11AS	NS11A7
Replacement needles (19 pcs.)	NS11-22-19	NS11-B22-19	NS11-S22-19	NS11-122-19

Flat chisel	Straight chisel	Angle chisel	Gouge chisel
WF-14F-7	WF-14B-6 1/8	WF-14A-6 1/8	WF-14G-6

UTILITY AIR HAMMERS	Weight less accessory [kg]	Length less accessory [mm]	Piston stroke [mm]	Blows per minute [1/min.]	Bore diameter [mm]	Shank opening [mm]
121/Q-EU	1,6	187	57	3000	19	● 10,2 mm
121/QH-EU	1,6	187	57	3000	19	● 10 mm

Standard equipment: "Quick change" tool retainer AVC10-183A.

Optional equipm. for hammer	Straight chisel	Straight chisel	Punch	Edging tool	Concave face chisel	Beehive retainer
121/Q	116-66	MC-68	MC-70	MC121-88	MC121-76	AVC1-83
121/QH	MC66H	MC-68H	MC-70H	MC121-88H	MC121-76H	AVC1-83

Model	Weight [kg]	Length [mm]	Piston stroke [mm]	Bore diameter [mm]	Blows per minute [1/min.]
9001-EU	11,2	572	229	27	900

Optional chisels: 9001-297-12 (moil point), 9001-276-12 (narrow)

Chisel shank ● 14,7	Chisel shank ● 17,3	Weight [kg]	Length [mm]	Piston stroke [mm]	Bore diameter [mm]	Blows per minute [1/min.]
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CHIPPERS WITH RUBBER RETAINERS

W1A1-EU	W1A2-EU	6,7	403	25	28	2500
W2A1-EU	W2A2-EU	7,0	416	51	28	2300
W3A1-EU	----	7,5	464	76	28	1725
W4A1-EU	----	7,9	489	102	28	1480

CHIPPERS WITH PLAIN ARROW RETAINERS

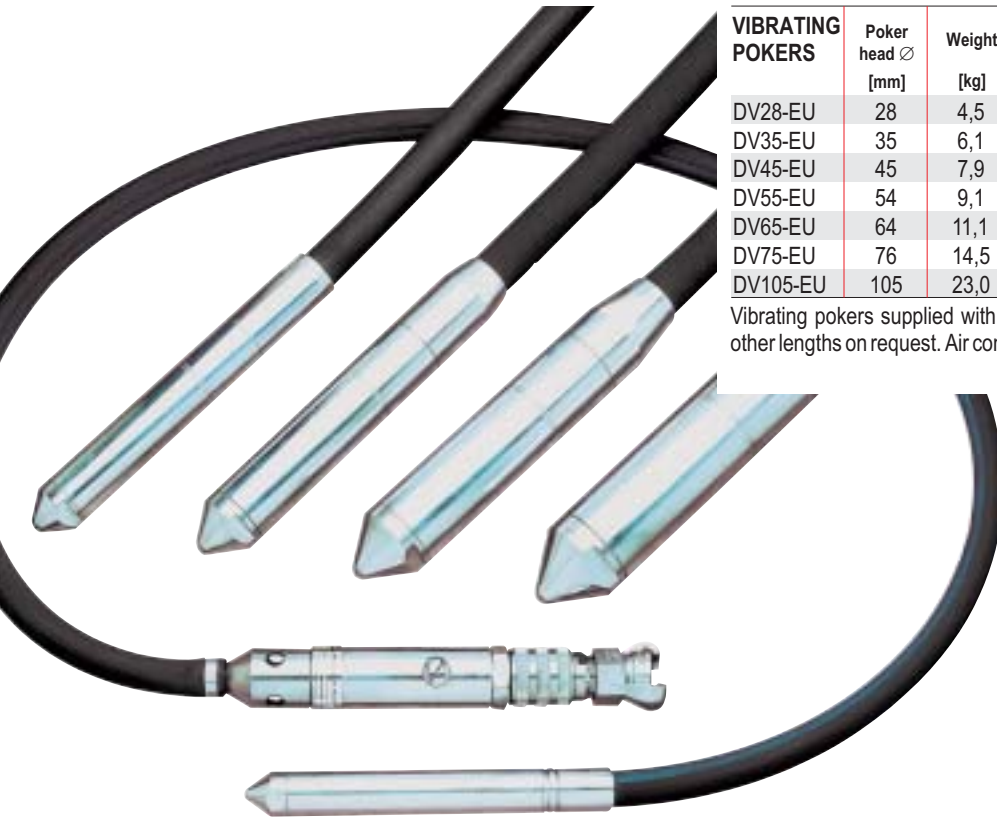
K2LA1SA-EU	K2LA2SA-EU	3,6	305	44	22	3600
1A1SA-EU	1A2SA-EU	6,7	394	25	28	2500
2A1SA-EU	2A2SA-EU	6,9	406	51	28	2300
3A1SA-EU	3A2SA-EU	7,5	454	76	28	1725
4A1SA-EU	4A2SA-EU	7,9	480	102	28	1480

Length [mm]	Optional equipment for chippers with round shank chisels				Optional equipment for chippers with hexagonal shank chisels			
	round collar (W1, W2, W3, W4)	Moil point	oval collar (K2L, 1, 2, 3, 4)	Moil point	round collar (W1, W2, W3, W4)	Moil point	oval collar (K2L, 1, 2, 3, 4)	Moil point
305	H3R-215F-12	H3R-215M-12	HH1-215F-12	HH1-215M-12	H3R-214F-12	H3R-214M-12	HH1-214F-12	HH1-214M-12
457	H3R-215F-18	---	HH1-215F-18	HH1-215M-18	H3R-214F-18	H3R-214M-18	HH1-214F-18	HH1-214M-18
610	H3R-215F-24	---	HH1-215F-24	HH1-215M-24	H3R-214F-24	H3R-214M-24	HH1-214F-24	HH1-214M-24

Specification for all tools at 620 kPa. All hammers: air inlet – 1/4" NPT, recommended hose size – 8 mm (13 mm for chippers).



Vibrating pokers, saws and rammers



VIBRATING POKERS	Poker head Ø [mm]	Weight [kg]	Max. output [m³/h]	Maximum aggregate size [mm]	Poker frequency [1/min.]	Centrifugal force [N]
DV28-EU	28	4,5	3,0	15	18000	1108
DV35-EU	35	6,1	9,9	25	18500	1917
DV45-EU	45	7,9	15,3	38	17000	3492
DV55-EU	54	9,1	24,5	45	17000	6036
DV65-EU	64	11,1	29,8	54	18000	9279
DV75-EU	76	14,5	32,1	64	18000	14812
DV105-EU	105	23,0	50,0	100	13500	22000

Vibrating pokers supplied with twist throttle, built-in regulator and 2 m inlet hose – other lengths on request. Air consumption: 8-38 l/sec.

RAMMERS		Weight less butt [kg]	Length less butt [mm]	Bore diameter [mm]	Piston stroke [mm]	Blows per minute	Standard malleable butt dia. [mm]	OPTIONAL EQUIPMENT (at extra price)	
bench	floor							rubber tipped butt	14 = rubber butt, 24,34 = steel butt
130A1M-EU		5,2	546	25	63	870	64	14SR-83R-2 3/8 (Ø60)	14SR-83R-4 (Ø99)
	241A1M-EU	12,2	1340	33	102	1590	76	24SR-83R-4 (Ø76)	24SR-83-5 (Ø127)
	341A2M-EU	15,8	1340	41	102	1550	146	---	34SR-383 (Ø76)
	441A2-EU	21,4	1292	51	102	1750	146	---	---

Air inlet 3/8" (130A1M-EU – 1/4"). Recommended hose size 13 mm (130A1M-EU – 10 mm).



S80-EU

RECIPROCATING SAW	Strokes per minute	Length of stroke [mm]	Weight [kg]	Length less blade [mm]	Side to centre [mm]	Max. power [kW]
SRA010A1-EU	1600	16	3,7	438	41	0,48

Air inlet – 1/4." Recommended hose size – 8 mm.

Perfect solution for cutting aluminium, steel, plastic, plaster, wood (including nail-embedded) in all weather conditions. Use appropriate commonly available industrial saw blades.



SRA010A1-EU



341A2M-EU

CIRCULAR SAWS	Max. speed [rpm]	Speed at max. power [rpm]	Max. power [kW]	Weight without blade [kg]	Max. blade dia. [mm]	Arbour hole dia. [mm]	Shoe dimensions [mm]	Depth of cut [mm]	Max. depth of cut (45° angle) [mm]	Max. thickness of material [mm]	Length [mm]	Width [mm]
S80-EU	4000	2500	1,49	6,6	210	16	200 x 305	5 – 76	64	45	350	222
S120-EU	2050	1400	2,4	12,4	305	25	216 x 470	35 – 111	102	73	505	262

Air inlet 1/2" NPT. Recommended hose size 19 mm. Standard equipment: built-in lubricator and one cutting blade (Ø 210mm combination chisel tooth for S80-EU, Ø 305 mm crosscut wood sawing for S120-EU). Saw mounting diameter S80-EU: 5/8" (16 mm), S120-EU: 1" (25,4 mm).

Specification for all tools at 620 kPa. All the tools on this page (except 130A1M-EU) have built in lubricator.

Drills: high power – cordless – standard

Full range of drills in our assembly and automotive service tools catalogues.



D650-L cordless drill with intelligent charger

High power drills	Free speed [rpm]	Speed at max. power [rpm]	Max. power [kW]	Spindle attachment	Max. drilling capacity in steel [mm]	Weight [kg]	Height along spindle [mm]	Side to centre distance [mm]	Air inlet NPT	Recom. hose size inside Ø
22KA1-EU	725	585	1,3	0-13 mm chuck	14	7,0	448	36	3/8"	13
22KWA1-EU	725	585	1,3	½" wood bit chuck	14	6,5	438	36	3/8"	13
22MA2-EU	350	290	1,3	No. 2 Morse taper	22	6,5	473	36	3/8"	13
33SKA-EU	300	235	2,16	No. 3 Morse taper	32	11,7	355	47	1/2"	19
33SMA-EU	185	130	2,16	No. 3 Morse taper	41	14,1	427	49	1/2"	19
44SMA-EU	155	112	2,68	No. 4 Morse taper	51	19,8	463	59	1/2"	19
551SMA-EU	120	90	4,66	No. 5 Morse taper	76	31,3	556	75	1"	25
551SOA-EU	77	58	4,66	No. 5 Morse taper	Not rated	31,5	556	75	1"	25

Cordless drills / drivers	Drill chuck [mm]	Free speed [rpm]	Max. power [kW]	Length [mm]	Weight [kg]
D6D650 - 19,2V	13	0 - 1300	73Nm	233	2,3
D550 - 14,4V	13	0 - 1300	62Nm	233	2,1

With 16 positions clutch & low speed range 0-360 rpm.

To order a set with intelligent charger & NiCd or Lilon battery add -N, -L, (-2N, -2L for two batteries). See also page 3 for details.

Pneumatic reversible pistol drills

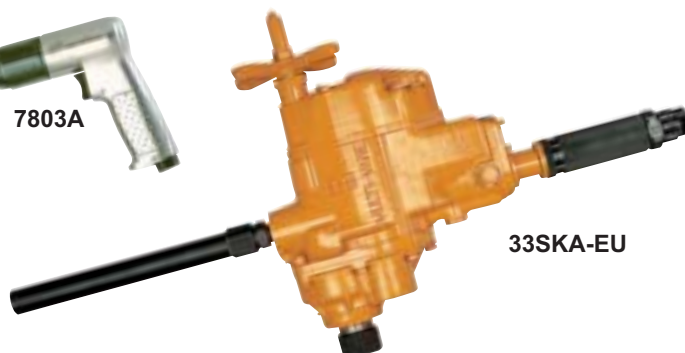
7802RA	10	2000	0,37	175	1,2
7803RA	13	500	0,37	200	1,4

Air inlet 1/4". Recommended hose size – 10 mm.

Add KC for drill with keyless chuck, remove "R" for non-reversible.



7803A



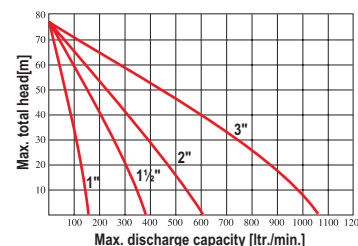
33SKA-EU

Pumps

Diaphragm pumps with threaded inlet	Diaphragm pumps with screened inlet	Inlet / outlet BSP	Max. discharge [l/min.]	Suspended solids max. Ø [mm]	Weight [kg]	Air consumption [l/sec.]	Air inlet/outlet
666120-322-C	-----	1"	132	3,2	8,6	20	1/4"
666170-322-C	PS15A-BAS-PAA ²⁾	1½"	341	6,4	23 / 24	50	1/2"
PD20A-BAP-AAA-B	PS20A-BAS-AAA ²⁾	2"	644	6,4	29 / 30	70	3/4"
PF20A-BAP-SAA ¹⁾	-----	2"	644	50 ¹⁾	34	70	3/4"
PD30A-BAP-AAA-C	PS30A-BAS-AAA-B ²⁾	3"	1041	9,5	51 / 52	80	3/4"

¹⁾ - Pumps with flap valve, max. diameter of suspended solids is stated for semi-fluid solids.

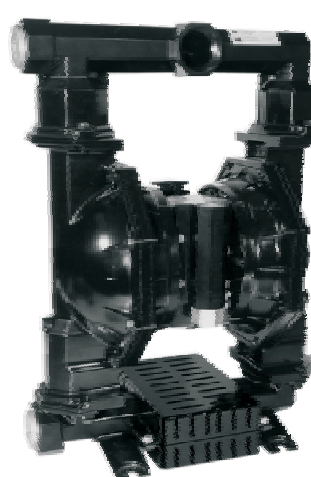
²⁾ - Screened inlet pump consists of threaded inlet pump + conversion kit 67174-15 (1½"), 67174-20 (2"), 67174-30 (3").



PD30A-BAP-AAA-C



PF20A-BAP-SAA-B
Flap valve pump



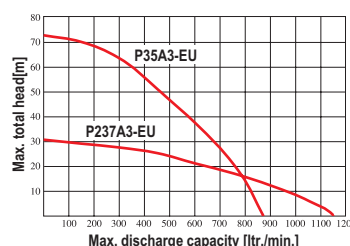
PS20A-BAS-AAA



666120-322-C

Centrifugal pumps	Pump inlet BSP	Weight [kg]	Air consumption [l/sec.]	Min. opening pump will pass through [mm x mm]	Air inlet BSP	Recommended inlet hose size [mm]
P237A3-EU	2½"	21,8	50	222 x 222	¾"	Ø 19
P35A3-EU	2"	36,0	75	214 x 357	1"	Ø 25

Solid cast iron pumps with screened air inlet, centrifugal speed regulator and inlet screen. Recommended exhaust hose size Ø 32 mm (if needed).

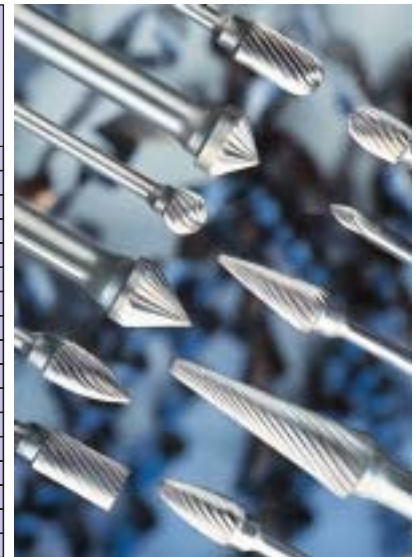


P237A3-EU

Specification for drills and centrifugal pumps at 620 kPa, for diaphragm pumps at 830 kPa. BSP = British Standard Pipe thread.

Grinding burrs

CUT	Standard S	Non-ferrous N	Fine F	Master M	Diamond D	Chipbreaker C
MATERIAL						
Aluminium	●	●	●	●	●	●
Bronze, brass, copper	●	●	●	●	●	●
Carbon	●	●	●	●	●	●
Cast iron	●	●	●	●	●	●
Malleable iron	●	●	●	●	●	●
Magnesium alloys	●	●	●	●	●	●
Masonite	●	●	●	●	●	●
Plastics	●	●	●	●	●	●
Hard rubber	●	●	●	●	●	●
Steel: carbon	●	●	●	●	●	●
Steel: alloy (40-55) HRc	●	●	●	●	●	●
Steel: alloy (55-60) HRc	●	●	●	●	●	●
Steel: nickel, chrome	●	●	●	●	●	●
Steel: stainless	●	●	●	●	●	●
Steel: welds	●	●	●	●	●	●
Titanium alloy	●	●	●	●	●	●
Zinc alloy	●	●	●	●	●	●



Shape	Head Ø x length	Burr model no.	Shape	Head Ø x length	Burr model no.	Shape	Head Ø x length	Burr model no.	Shape	Head Ø x length	Burr model no.	Shape	Head Ø x length	Burr model no.	Shape	Head Ø x length	Burr model no.
cylinder	3 x 12	RFA3-43-x	cylinder	3 x 12	RFB3-43-x	bull nose	3 x 12	RFC3-43-x	ball	3 x 3	RFD3-42-x	oval	3 x 6	RFE3-41-x	round tree	3 x 12	RFF3-42-x
	6 x 12	RFA3-51-x (top cut)		6 x 12	RFB3-51-x		6 x 12	RFC3-51-x		4 x 4	RFD3-53-x		6 x 10	RFE3-51-x		6 x 12	RFF3-51-x
	6 x 18	RFA6-1-x		6 x 18	RFB6-1-x		6 x 18	RFC6-1-x		6 x 6	RFD3-51-x		6 x 10	RFE6-1-x		6 x 18	RFF6-1-x
	8 x 20	RFA6-2-x		8 x 20	RFB6-2-x		8 x 20	RFC6-2-x		6 x 6	RFD6-1-x		8 x 15	RFE6-2-x		8 x 20	RFF6-2-x
	10 x 20	RFA6-3-x		10 x 20	RFB6-3-x		10 x 20	RFC6-3-x		8 x 8	RFD6-2-x		10 x 15	RFE6-3-x		10 x 20	RFF6-3-x
	12 x 20	RFA6-13-x		12 x 20	RFB6-13-x		12 x 20	RFC6-13-x		10 x 10	RFD6-3-x		12 x 20	RFE6-5-x		11 x 25	RFF6-4-x
	12 x 25	RFA6-5-x		12 x 25	RFB6-5-x		12 x 25	RFC6-5-x		12 x 12	RFD6-5-x		15 x 25	RFE6-6-x		12 x 25	RFF6-5-x
	15 x 25	RFA6-6-x		15 x 25	RFB6-6-x		15 x 25	RFC6-6-x		15 x 15	RFD6-6-x		20 x 25	RFE6-7-x		15 x 25	RFF6-6-x
	20 x 25	RFA6-7-x		20 x 25	RFB6-7-x		20 x 25	RFC6-7-x		20 x 20	RFD6-7-x					20 x 25	RFF6-7-x
tree	3 x 12	RFG3-44-x	flame	3 x 12	RFG3-51-x	cone 60°	3 x 3	RFJ3-42-x	cone 90°	3 x 3	RFK3-42-x	ball nose cone	3 x 11	RFL3-42-x	cone	3 x 11	RFM3-42-x
	6 x 12	RFG6-1-x		6 x 12	RFG6-2-x		8 x 20	RFH6-2-x		10 x 10	RFJ6-3-x		6 x 18	RFL6-1-x		3 x 12	RFM3-51-x
	8 x 20	RFG6-3-x		10 x 20	RFG6-4-x		12 x 32	RFH6-5-x		12 x 12	RFJ6-5-x		8 x 22	RFL6-2-x		6 x 20	RFM6-1-x
	12 x 20	RFG6-5-x		12 x 25	RFG6-6-x		15 x 35	RFH6-6-x		15 x 15	RFJ6-6-x		10 x 26	RFL6-3-x		10 x 20	RFM6-4-x
	15 x 25	RFG6-7-x		20 x 42	RFH6-7-x		20 x 20	RFJ6-7-x		20 x 12	RFK6-7-x		12 x 28	RFL6-4-x		12 x 22	RFM6-5-x
													15 x 33	RFL6-6-x		15 x 25	RFM6-6-x
													20 x 38	RFL6-7-x			

Please substitute „x“ with the letter corresponding to the cut chosen. Burrs with part no. including: 41, 42, 43, 44, 51 are with 3 mm shank, other – Ø 6 mm. Burrs with 8 mm shank available on request. Guideline for workable speed (lower speeds for finer cuts and/or harder materials): Ø 3 – 40-80.000 rpm, Ø 6 – 25-50.000 rpm, Ø 12 – 12-30.000 rpm, Ø 20 – 8-22.000 rpm. Actual speed to be confirmed in operation.

Airline accessories

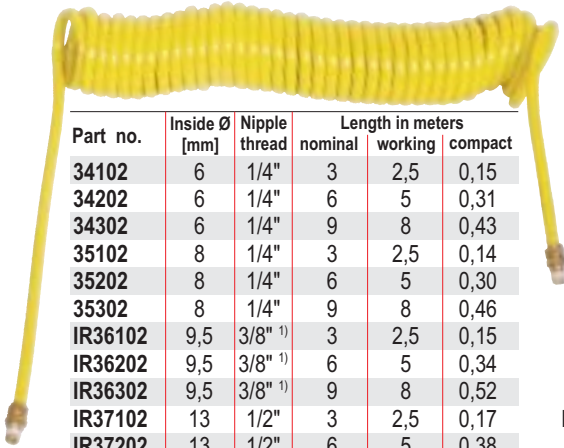
QUICK COUPLINGS 7.2-7.4 size (25 l/s) 1300 series (25 l/s) 1800 series (63 l/s)

Thread / Ø hose	7.2-7.4 size coupling	7.2-7.4 safety coupling	Coupling nipple	1300 series coupling	1300 series nipple	1800 series coupling	1800 series nipple
BSP female							
1/8"	---	---	---	---	13405	---	---
1/4"	7N7CCFC2	7S7CCFC2	77NFC2	1300	13410	---	18405
3/8"	7N7CCFC3	7S7CCFC3	77NFC3	1300B	---	1800	18410
1/2"	7N7CCFC4	7S7CCFC4	77NFC4	---	---	1800B	---
BSP male							
1/8"	---	---	---	---	13110	---	18105
1/4"	7N7CCMC2	7S7CCMC2	77NMC2	---	13210N	---	18110
3/8"	7N7CCMC3	7S7CCMC3	77NMC3	1300A	13220	---	18210N
1/2"	7N7CCMC4	7S7CCMC4	77NMC4	---	---	1800A	18220
hose							
Ø 6	7N7CCH06	7S7CCH06	77NH06	---	13006	---	18006
Ø 8	7N7CCH08	7S7CCH08	77NH08	---	13008	---	18008
Ø 10	7N7CCH10	7S7CCH10	77NH10	---	13010	---	18010
Ø 13	7N7CCH13	7S7CCH13	77NH13	---	13012	---	18012
Ø 16	---	---	---	---	---	---	18016

AIR HOSES IN COILS

	Inside Ø [mm]	Outside Ø [mm]	Working pressure [bar]	Bursting pressure [bar]
PVC Round Hose - 30 metre coil Scuff resistant outer cover – Greater kink resistance – Lightweight & extra flexible – Temperature range: -20°C to +65°C. Resistance against a wider range of chemicals.				
RH-6	6	11	18	74
RH-8	8	13	15	65
RH-10	10	14	13	54
RH-12	12,5	17	11	44
RH-16	16	21	11	44
RH-19	19	24	11	44
Blue PVC Nitrile Hose – 20 metre coil: Interior tube of black nitrile PVC with braided textile reinforcement – Extra flexible – Abrasion, weather and heat resistant cover – Temperature range: -35°C to +60°C.				
NP6-12-20M	6	12	20	60
NP8-15-20M	8	15	20	60
NP10-19-20M	10	19	20	60
NP13-23-20M	12,5	23	20	60
NP16-28-20M	16	28	20	60
NP19-31-20M	19	31	20	60

Airline accessories



Part no.	Inside Ø [mm]	Nipple thread	Length in meters		
			nominal	working	compact
34102	6	1/4"	3	2,5	0,15
34202	6	1/4"	6	5	0,31
34302	6	1/4"	9	8	0,43
35102	8	1/4"	3	2,5	0,14
35202	8	1/4"	6	5	0,30
35302	8	1/4"	9	8	0,46
IR36102	9,5	3/8" ¹⁾	3	2,5	0,15
IR36202	9,5	3/8" ¹⁾	6	5	0,34
IR36302	9,5	3/8" ¹⁾	9	8	0,52
IR37102	13	1/2"	3	2,5	0,17
IR37202	13	1/2"	6	5	0,38
IR37302	13	1/2"	9	8	0,58

BRASS CLAW COUPLINGS

42 mm between grips Max. 16 bar, 80°C

BSP thread	inside thread	outside thread	Hose Ø [mm]	
1/4"	XF-8	XM-8	Ø 7	X-7
3/8"	XF-12	XM-12	Ø 10	X-10
1/2"	XF-15	XM-15	Ø 13	X-13
3/4"	XF-20	XM-20	Ø 16	X-16
1"	XF-25	XM-25	Ø 19	X-19
1 1/4"	XF-33	XM-33	Ø 25	X-25

Also available: XB-42 plug,

4221 pack of 100 pcs spare rubber joints,

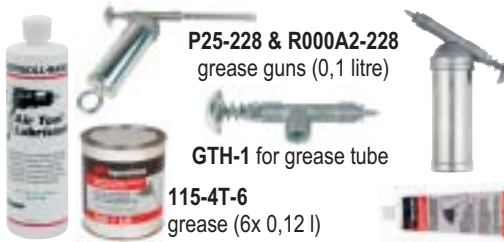
4220V pack of 10 pcs of spare joints up to 250°C

RECOIL HOSE ASSEMBLIES "SUPERCOIL"

- Very good "shape memory": returns to its original shape
- Freely rotating threaded nipples
- 300 mm of straight "whip hose"

¹⁾ - For 1/4" nipples replace digit "2" with "3"

LUBRICANTS



Part no.	Q-ty	Recommended use
10P	0,55 l	Oil for small tool airmotors
10G	4,5 l	Oil for small tool airmotors
50-P	0,55 l	Oil for large tool airmotors
50-G	4,5 l	Oil for large tool airmotors
10GW	4,5 l	Oil or airmotors in low temperature
100 1 LB	0,45 kg	Grease for hammer impact mechanism
115 1 LB	0,45 kg	Grease for 2115, 2125, 2135 impacttools
150 8 LB	3,6 kg	Grease for ball-cam impact mechanism

HOSE NIPPLES

Hose Ø mm	1/4" BSP	3/8" BSP	1/2" BSP
Ø 6	35006	---	---
Ø 7	35007	35107	---
Ø 8	35008	35108	36208
Ø 9	35009	35109	---
Ø 10	35010	35110F	---
Ø 11	35011	---	36211
Ø 12	---	36212	36220
Ø 13	35013	35113	36213
Ø 16	---	1816	36221
Ø 19	---	1819	36222

Model	Capacity [kg]	Head room [mm]	Size [mm]	Weight [kg]
-------	---------------	----------------	-----------	-------------

LIGHT DUTY – stroke 1600 mm

BLD-1	0,4 – 1	258	Ø109x55	0,6
BLD-2	1 – 2			0,6
BLD-3	2 – 3			0,7

Ø 6,3 mm hose reel stroke 1300 mm

BHR8	0,4–0,8	104	Ø145 x 104	1,5
BHR15	0,7–1,5			1,5
BHR25	1,2–2,5			1,5

MEDIUM – stroke 2000 mm

BMDS-2	1 – 2,5	274	Ø149 x 85	2,0
BMDS-4	2 – 4			2,0
BMDS-6	4 – 6			2,3
BMDS-8	6 – 8			2,5

MEDIUM – stroke 2500 mm

BMDL-4 ²⁾	2 – 4	330	Ø180 x 86	2,9
BMDL-6 ²⁾	4 – 6			3,2
BMDL-8 ²⁾	6 – 8			3,5
BMDL-10 ²⁾	8 – 10			3,7
BMDL-12	10 – 14			4,0

²⁾ - Also with locking device (LL option).

INTERMEDIATE DUTY - stroke 2000 mm

BIDS-14	10 – 14	580	Ø240 x 150	7,5
BIDS-18	14 – 18			7,6
BIDS-22	18 – 22			7,7
BIDS-25	22 – 25			7,8

HEAVY DUTY – stroke 2000 mm

BHD-15	10 – 15	580	Ø250 x 220	10,3
BHD-20	15 – 20			10,6
BHD-25	20 – 25			11,2
BHD-30	25 – 30			11,5
BHD-35	30 – 35			11,8
BHD-45	35 – 45			12,4
BHD-55	45 – 55			12,5
BHD-65	55 – 65			13,6

SUPER DUTY – stroke 2500 mm

BSD-20	15-20	660	Ø290 x 220	19,0
BSD-30	20-30			19,8
BSD-40	30-40			20,8
BSD-50	40-50			23,9
BSD-60	50-60	660	Ø290 x 270	25,4
BSD-70	60-70			26,8
BSD-80	70-80			27,8
BSD-90	80-90			28,8
BSD-100	80-100	660	Ø290 x 355	35,6
BSD-120	100-120			38,7
BSD-140	120-140			41,8
BSD-150	130-150			44,5
BSD-165	150-165	660	Ø290 x 355	48,2

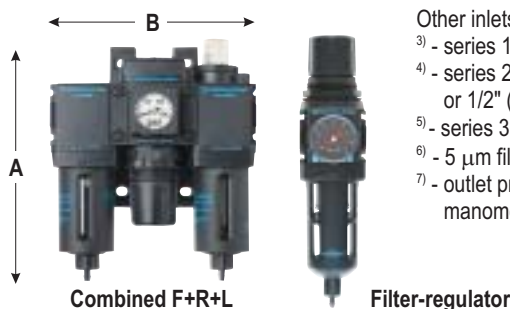
SUPER DUTY stroke 3000 mm

BSDL-20	15-20	660	Ø290 x 220	19,1
BSDL-25	20-25			19,9
BSDL-35	25-35			20,9
BSDL-45	35-45			23,8
BSDL-50	40-50	660	Ø290 x 270	23,9
BSDL-60	50-60			25,3
BSDL-70	60-70			26,7
BSDL-80	70-80			28,0
BSDL-90	80-90	660	Ø290 x 355	29,0
BSDL-100	80-100			36,8
BSDL-115	100-115			38,7
BSDL-130	115-130			39,9
BSDL-140	130-140	660	Ø290 x 355	42,8
BSDL-150	140-150			45,6
BSDL-180	160-180			50,0



Safety brake to prevent load drop (except BLD, BHR series & BMDS2); upper rotary hook suspension (BIDS, BHD, BSD, BSDL); manual locking device & optional force control device BIL-7343 (for BHD) or BIL-3224 (for BSD, BSDL).

Inlet thread	1/4"	1/2" ³⁾	3/4" ⁴⁾	1" ⁵⁾
FILTER ⁶⁾	F08-C2-SR00-29	F18-C4-SG00-29	F28-C6-SG00-29	F39-C8-SH00-29
Capacity [dl]	0,12	0,51	0,85	0,8
Flow [l/sec.]	18	46	63	135
A x B [mm]	40 x 116	60 x 188	73 x 213	100 x 281
REGULATOR ⁷⁾	R08-C2-F0G0-29	R18-C4-F0G0-29	R28-C6-F0G0-29	R38-C8-F000-29
Flow [l/sec.]	19	60	76	232
A x B [mm]	40 x 100	60 x 136	73 x 149	100 x 199
LUBRICATOR	L08-C2-KK00-29	L18-C4-LK00-29	L28-C6-LK00-29	L38-C-LD00
Capacity [dl]	0,18	1,21	1,81	3,6
Flow [l/sec.]	19	41	74	185
A x B [mm]	40 x 144	60 x 212	73 x 238	10 x 282
Filter-regulator	B08-C2-FRG0-29	B18-C4-FGG0-29	B28-C6-FGG0-29	B39-C8-FLG0-29
Capacity [dl]	0,12	0,51	0,85	0,8
Flow [l/sec.]	20	59	78	164
A x B [mm]	40 x 164	60 x 254	73 x 291	100 x 407
Combined FR + L	D08-C2-FRG0-29	D18-C4-FGG0-29	D28-C6-FGG0-29	D39-C8-FHG0-29
Flow [l/sec.]	19	59	76	142
A x B [mm]	80 x 164	128 x 254	155 x 291	200 x 407
Combined F+R+L	C08-C2-FRG0-29	C18-C4-FGG0-29	C28-C6-FGG0-29	C39-C8-FLG0-29
Flow [l/sec.]	19	59	76	142
A x B [mm]	80 x 144	197 x 212	237 x 238	300 x 248



Other inlets threads also available:
³⁾ - series 18: 3/8" (C3 instead of C4),
⁴⁾ - series 28: 3/8" (C3 instead of C6), or 1/2" (C4 instead of C6),
⁵⁾ - series 38: 3/4" (C6 instead of C8),
⁶⁾ - 5 µm filtration, automatic drain
⁷⁾ - outlet pressure 0,4 – 8,5 bar, manometer included



Assembly tools



Automotive service tools



Fluid handling systems



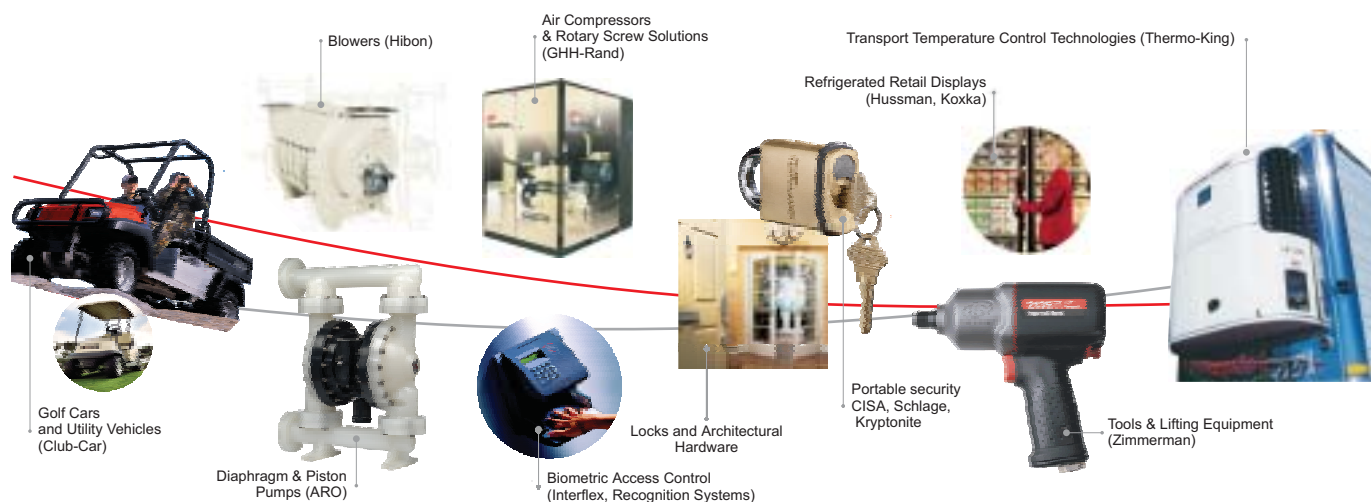
Air motors



Engine starting systems



Material handling equipment



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