HEAT ON

Plastic welding extruder

BAK

www.bak-ag.com

BAK Thermoplastic
Welding Technology AG
Industriestrasse 6
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HEAT ON

– With brushless pre-heater.

– Patented temperature measurement system by Dohle, Germany. The thermocouple is located inside the mass barrel on the outlet, this guarantees a real temperature control and read out.

– Cold start protection by mass and air temperature.

– Every type is available with a revolving head with integrated preheat nozzle to weld in any direction.

– No wear parts on the rod feed system.

For more information visit our website

www.bak-ag.com

We develop individual tool type, especially suited for your application.

View front panel ExOn 2–3.

Integrated tool stand for ExOn 1–3.

All the extruder are also available for external air supply on request.

Hand welding extruder

MICRO

Small, light, unique

– for welding of PE, PP, PVDF and PVC
– separated air and mass temperature control
– patented temperature control direct in the mass
– internal air supply built-in in the control box
– brushless motor for drive and blower

Worldwide the smallest and lightest hand held extrusion welder. Extruder weight only 2,3 kg, output up to 0,5 kg/h.

Technical Data		
Voltage	V	230
Frequency	Hz	50/60
Power consumption	W	1300
Output with HDPE material	kg/h	0,1–0,5
Welding consumable	mm	3 and 4 round
Size Extruder (lxwxh)	mm	410x75x100
Size control box (lxwxh)	mm	530x210x410
Weight Extruder	kg	2,3
Weight control box	kg	20 with 5 m cord
Protection class I		⏚
Markings		CE

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EXON 1/2

ExOn 1***

ExOn 2

ExOn1 A*

ExOn 2A*

Type		ExOn 1	ExOn 1A	ExOn 2	ExOn 2A
Voltage	V	230 or 120	230 or 120	230	230
Frequency	Hz	50/60	50/60	50/60	50/60
Power consumption	W	2640	2320	3600	3100
Output with HDPE material	kg/h	max. 1,2	max. 1,2	max. 2	max. 2
Welding consumable	mm	3 and 4 round	3 and 4 round	4 or 5** round	4 or 5** round
Size (l x w x h)	mm	500 x 100 x 340	500 x 100 x 340	560 x 120 x 350	560 x 120 x 350
Weight	kg	5	5	7	7
Pre-heater		brushless	brush	brushless	brush
Welding materials		PE, PP, PVDF, PVC	PE, PP	PE, PP, PVDF, PVC	PE, PP
Protection class I		⏚	⏚	⏚	⏚
Markings		CE	CE	CE	CE

* air heated hand welding extruder
** indicate on order
*** on request also available with digital read out of the air temperature.

You will only achieve optimal results when using original accessories!

Subject to technical changes.

EXON 3/5/6

ExOn 3

ExOn 5

ExOn 3A *

ExOn 6

Type		ExOn 3	ExOn 3A	ExOn 5	ExOn 6
Voltage	V	230	230	230 oder 400	230 oder 400
Frequency	Hz	50/60	50/60	50/60	50/60
Power consumption	W	3700	3600	5300	5300
Output with HDPE material	kg/h	max. 3	max. 3	max. 5	max. 6
Welding consumable	mm	4 or 5** round	4 or 5** round	5 round	pellets
Size (l x w x h)	mm	650 x 120 x 360	650 x 120 x 360	660 x 126 x 448	660 x 126 x 365/600
Weight	kg	8	8	11	12
Pre-heater		brushless	brush	brushless	brushless
Welding materials		PE, PP, PVDF, PVC	PE, PP	PE, PP	PE, PP
Protection class I		⏚	⏚	⏚	⏚
Markings		CE	CE	CE	CE

* air heated hand welding extruder
** indicate on order

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EXON 7/8 HS28

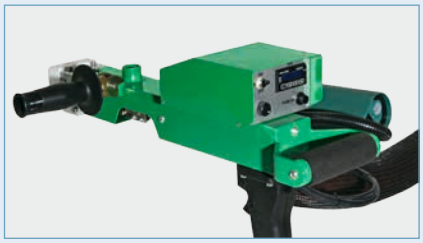
ExOn 7

ExOn 8

HS28

Control box type ExOn 7, ExOn 8

HS28 welding head



Type		ExOn 7	ExOn 8	HS28
Voltage	V	3x400	3x400	3x400
Frequency	Hz	50/60	50/60	50/60
Power consumption	W	6000	6000	11000
Output with HDPE material	kg/h	max. 5	max. 6	max. 12
Welding consumable	mm	5 round	pellets	pellets
Size (lxwxh)	mm	846x267x242	852x267x242/430	1040x600x660
Weight	kg	40	42	210
Pre-heater		brushless	brushless	brushless
Welding materials		PE, PP	PE, PP	PE, PP
Protection class I		⏚	⏚	⏚
Markings		CE	CE	CE

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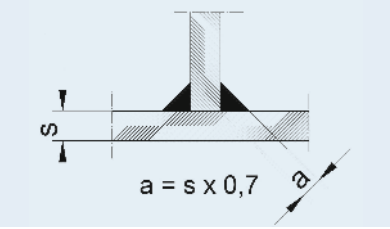
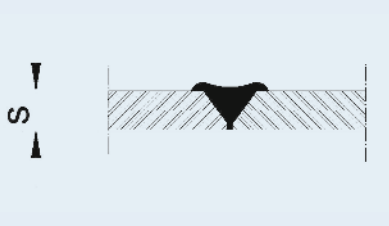
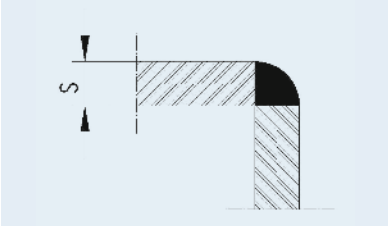
Subject to technical changes.

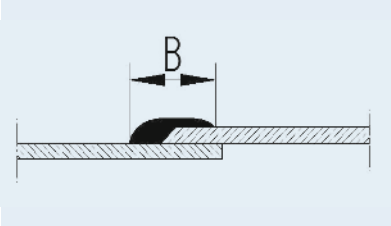
ACCESSORIES

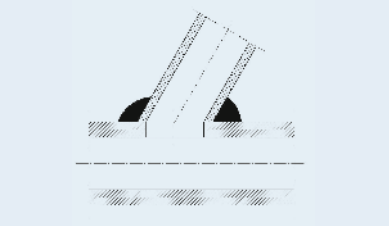
Welding shoe calculation







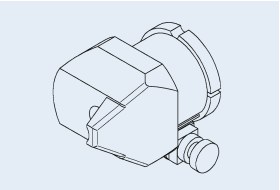




Type Micro

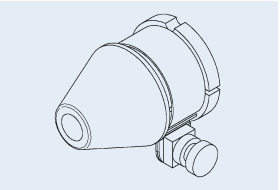
Welding shoe fillet seam

Order no.	sheet thickness (mm)
D-1175	3–4
D-1176	5–6
D-1177	8
D-1178	10



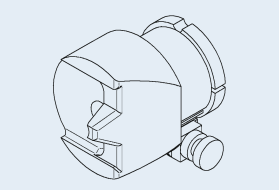
Welding shoe round

Order no.	
D-1183	∅ 7 mm
D-1184	∅ 9 mm



Welding shoe V-seam

Order no.	sheet thickness (mm)
D-1179	3–4
D-1180	5–6
D-1181	8



Nozzle with tacking tip

Order no.
D-1185

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ACCESSORIES

Type ExOn 1–6

Transport case (metal)

Order no.	
D-0965	Type ExOn 1
D-1644	Type ExOn 2–3
D-1799	Typ ExOn 3A
D-1041	Type ExOn 5–6

Revolving head

Order no.	
DX321	Type ExOn 2
DX323	Type ExOn 3
DX325	Type ExOn 5–6

Revolving head, 45° angle

Order no.	
DX326	Type ExOn 2
DX327	Type ExOn 2A
DX328	Type ExOn 3
DX330	Type ExOn 5–6

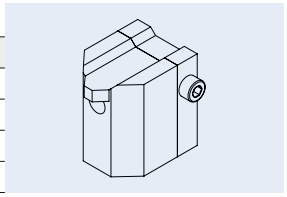
Revolving head, 90° angle

Order no.	
DX331	Type ExOn 2
DX332	Type ExOn 2A
DX333	Type ExOn 3
DX335	Type ExOn 5–6

Welding shoes type ExOn 1/1A

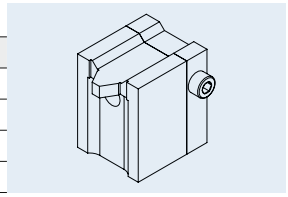
Fillet seam

Order no.	sheet thickness (mm)
D-0827	5–6
D-0828	8
D-0829	10
D-0830	12
D-1039	15



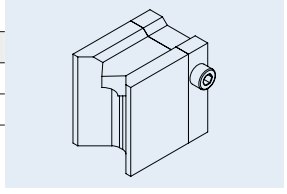
V-seam

Order no.	sheet thickness (mm)
D-0831	5–6
D-0832	8
D-0833	10
D-0834	12



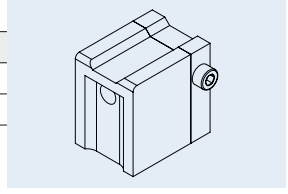
Corner seam

Order no.	sheet thickness (mm)
D-0837	5–8
D-0838	10–12



Overlap seam

Order no.	seam width (mm)
D-0835	20
D-0836	25



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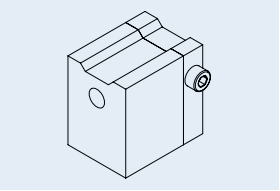
Subject to technical changes.

Welding shoes type ExOn 1/1A

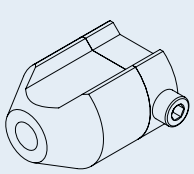
Unshaped

Order no.		
D-0842	l x w	30 x 40 mm



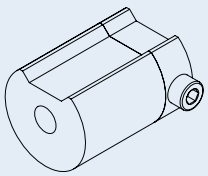
Round

Order no.	
D-0839	∅ 10 mm
D-0840	∅ 15 mm
D-0841	∅ 20 mm



Unshaped round

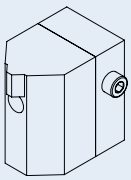
Order no.	
D-0843	∅ 30 mm



Welding shoes type ExOn 2–6

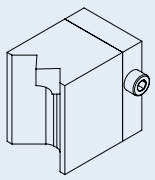
Fillet seam

Order no.	sheet thickness (mm)
D-0174	5–8
D-0175	10–12
D-0177	15
D-0178	20
D-0179	25
D-0180	30
D-0181	35
D-0182	40



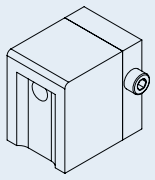
Corner seam

Order no.	sheet thickness (mm)
D-0195	5–8
D-0196	10
D-0197	15
D-1221	20



Overlap seam

Order no.	seam width (mm)
D-1989	20
D-0192	25
D-0193	30
D-0194	35
D-0599	40
D-1223	45



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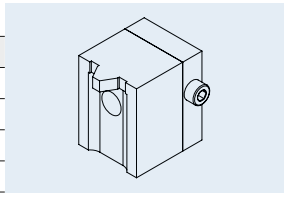
ACCESSORIES

Welding shoes type ExOn 2–6

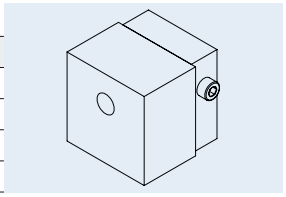
V-seam

Order no.	sheet thickness (mm)
D-0906	5–6
D-0183	8
D-0184	10
D-0185	12
D-0186	15
D-0187	20
D-0188	25
D-0189	30
D-0190	35
D-0191	40



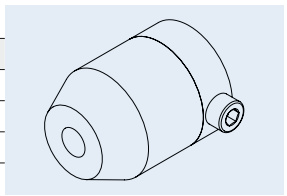
Unshaped

Order no.		
D-0223	l x w	45 x 30 mm
D-0224	l x w	50 x 40 mm
D-0225	l x w	45 x 45 mm
D-1237	l x w	45 x 50 mm
D-0247	l x w	60 x 70 mm
D-0248	l x w	70 x 80 mm



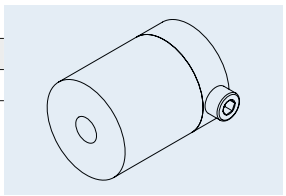
Round

Order no.	
D-0600	∅ 15 mm
D-0366	∅ 20 mm
D-0337	∅ 25 mm



Unshaped round

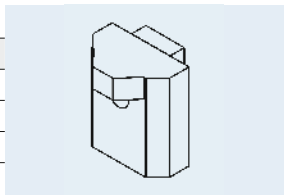
Order no.	
D-0598	∅ 35 mm



Welding shoes type HS28

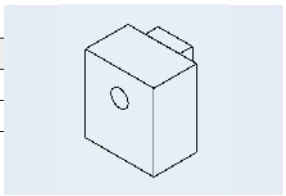
Fillet seam

Order no.	sheet thickness (mm)
D-1761	30
D-1762	35
D-1763	40



Unshaped

Order no.		
D-1760	l x w	70 x 60 mm
D-1543	l x w	90 x 80 mm



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Test equipment

Spark tester

Order no.	
5200229	230V

Welding rod dereeler for 1 roll

Order no.
5118190

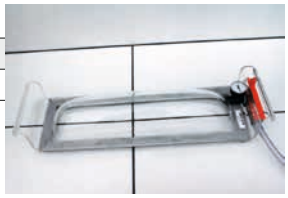
Vacuum pump

Order no.	
DX150	230V
DX096	120V

Vacuum test bells

Rectangular

Order no.	
DX121	740 x 280 x 160 mm



Round

Order no.	
5200306	∅ 210 mm
5200305	∅ 360 mm

Inside edge

Order no.
5200315

Outside edge

Order no.
5200330

Inside corner down

Order no.
5200310

Outside corner down

Order no.
5200320

Inside corner up

Order no.
5200325

Outside corner up

Order no.
5200335

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