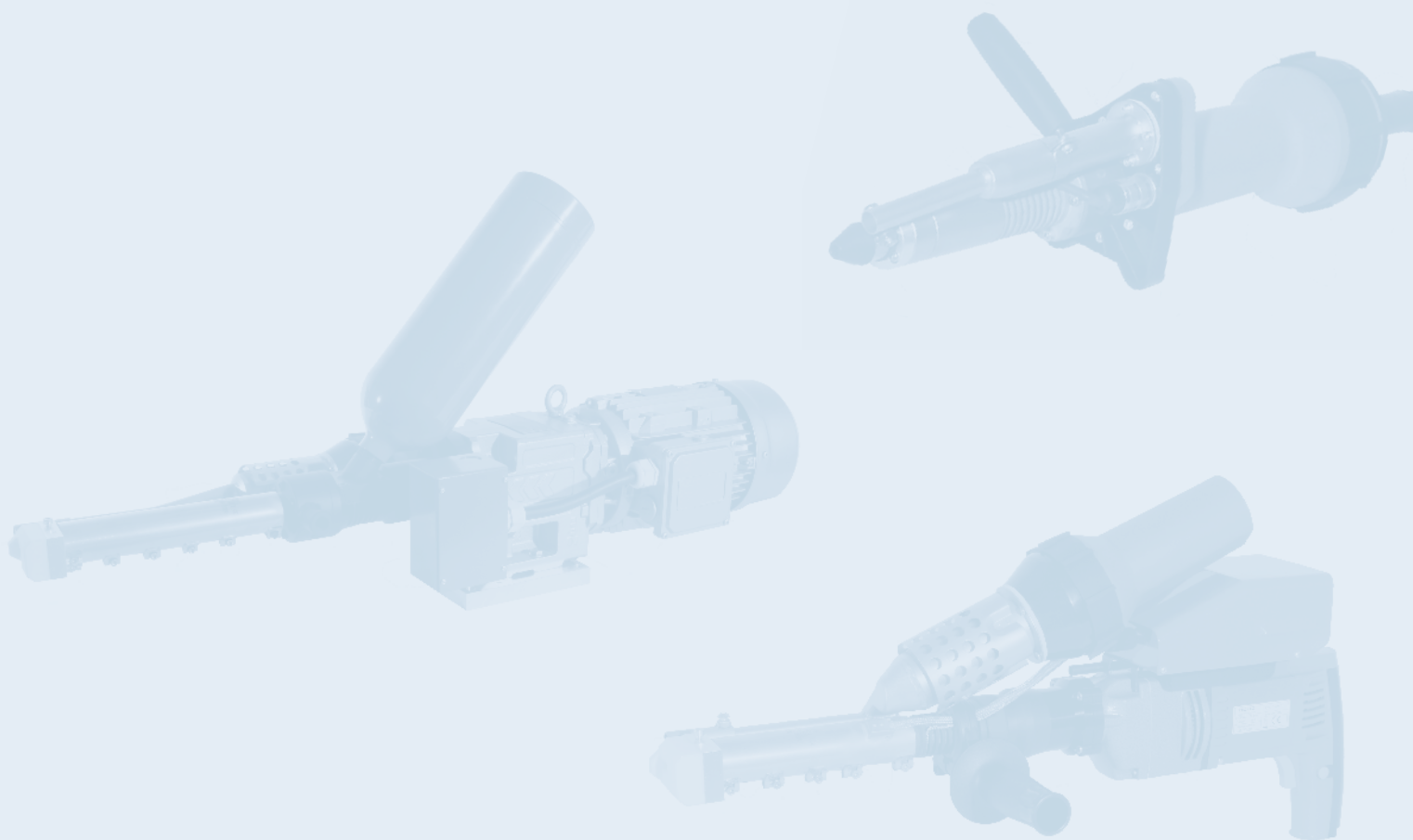


HEAT ON

Plastic welding extruder and industrial extruder



BAK

www.bak-ag.com



HAPCO INC

390 Portage Blvd., Kent, OH 44240

800-345-9353 • info@hapcoinc.com • <https://hapcoinc.com>

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 (360°) 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 types, 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.

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 5.07 lbs, output up to 1.10 lbs/h.

Technical Data		
Voltage	V	230
Frequency	Hz	50/60
Power consumption	W	1300
Output with HDPE material	lbs/h	0.22 - 1.10
Welding consumable	mm	3 and 4 round
Size Extruder (l x w x h)	mm	410 x 75 x 100
Size control box (l x w x h)	mm	530 x 210 x 410
Weight extruder	lbs	5.07
Weight control box	lbs	44.09 w/ 16.4 ft cord
Protection class I		⊕
Markings		CE

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	lbs/h	max. 2.65	max. 2.65	max. 4.41	max. 4.41
Welding consumable	mm	3 and 4 round	3 and 4 round	4 or 5** round	4 or 5** round
Size(lxwxh)	mm	500x100x340	500x100x340	560x120x350	560x120x350
Weight	lbs	11	11	15.43	15.43
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.

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 or 400	230 or 400
Frequency	Hz	50/60	50/60	50/60	50/60
Power consumption	W	3700	3600	5300	5300
Output with HDPE material	lbs/h	max. 6.61	max. 6.61	max. 11	max. 13.22
Welding consumable	mm	4 or 5** round	4 or 5** round	5 round	pellets
Size(lxwxh)	mm	650x120x360	650x120x360	660x126x448	660x126x365/600
Weight	lbs	17.64	17.64	24.25	26.46
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

HS28

Unique,
powerful,
user-friendly

- highest performance
- flexible use due to mobile control box
- brushless motor
- easy operation



The heated hose extruder with the highest welding performance (26.46 lbs/h) on the market. Easy handling due to light weight of the welding head (approx. 13.22 lbs)

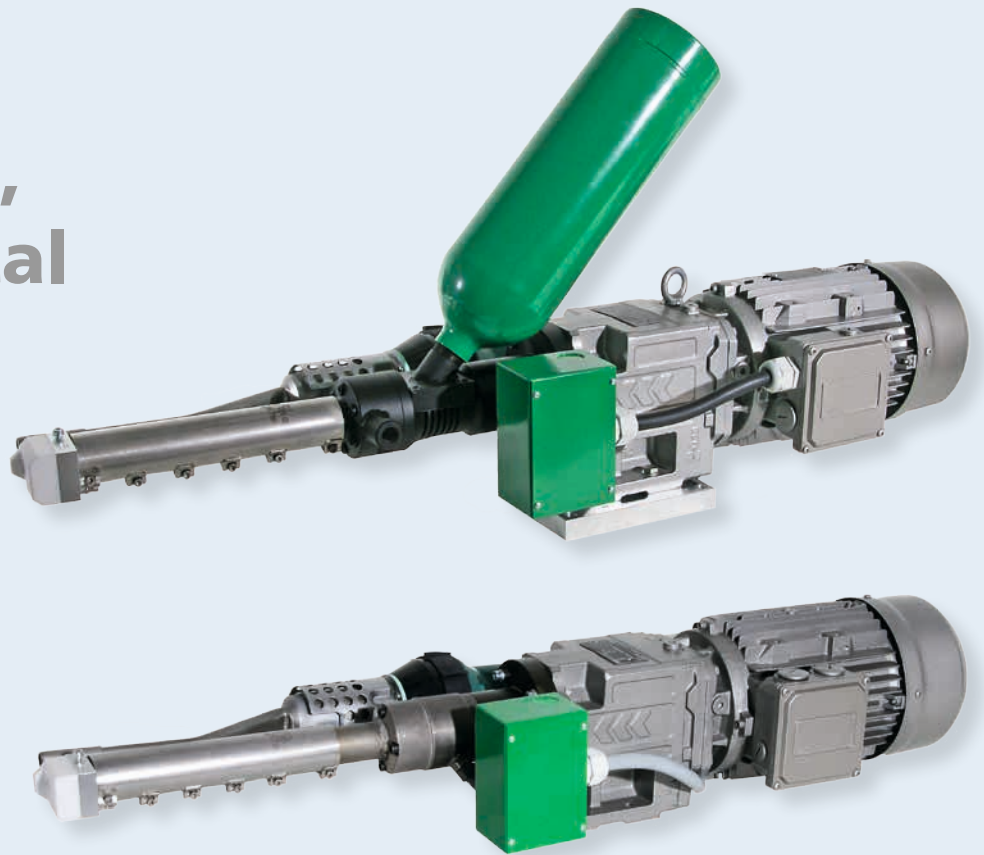
Technical data

Voltage	V	3x400
Frequency	Hz	50/60
Power consumption	W	11000
Output	lbs/h	max. 26.46
Welding consumable		pellets
Size (l x w x h)	mm	1040 x 600 x 660
Weight	lbs	462.97
Protection class I		⊕
Markings		CE

EXON 7/8

Reliable,
fail-proof,
economical

- for automated welding
- for 3D-printing
- for mounting on robot arms
- easy construction



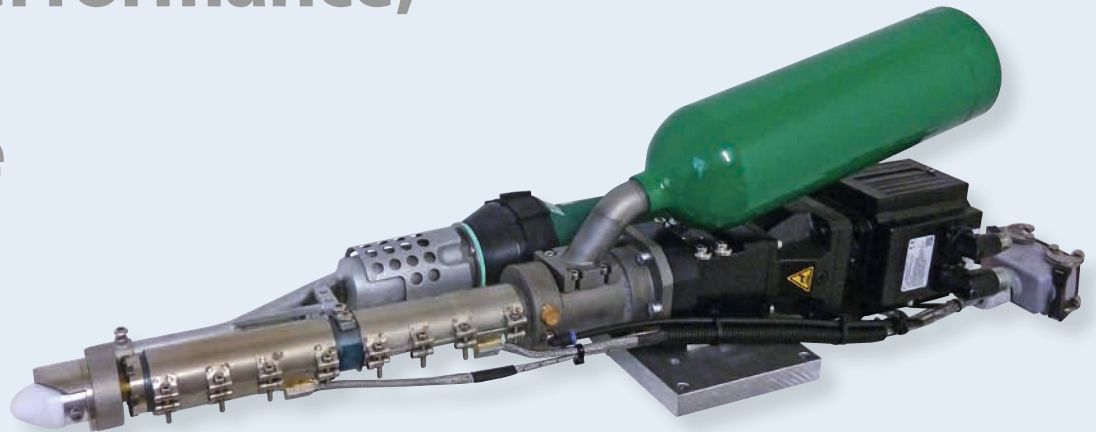
The user-friendly and economic industrial extruders to build into machines or to mount on robot arms.

Technical data		ExOn 7	ExOn 8
Voltage	V	3 x 400	3 x 400
Frequency	Hz	50/60	50/60
Power consumption	W	6000	6000
Output	lbs/h	max. 11	max. 13.22
Welding consumable		5 round	pellets
Size (l x w x h)	mm	846 x 267 x 242	852 x 267 x 242 / 430
Weight	lbs	88.18	92.59
Protection class I		⊕	⊕
Markings		CE	CE

Optional: external control

EXON 10

High performance,
light,
flexible



- for automated welding
- for 3D-printing
- for mounting on robot arms and simple axis systems
- 2 heating zones
- feeder cooling possible
- mounting position variable



The flexible industrial extruder for the work on PE, PP, PVC, TPU, TPE, ABS, PMMA, PA, PC, PET, PLA and many more materials.

Technical data

Voltage	V	3x400
Frequency	Hz	50/60
Power consumption	W	5000
Output	lbs/h	max. 13.22
Welding consumable		pellets
Size without preheating (lxbxh)	mm	800x300x250
Size with preheating (lxbxh)	mm	820x300x250
Weight with/without preheating	lbs	41.89/48.50
Protection class I		⊕
Markings		CE

Optional:

- external control with analogue signal
- external control with commonfieldbus systems
- nozzle with swerve knife for the cutting of the extrudate
- feeding for welding rod (2x5 mm round) PP and PE

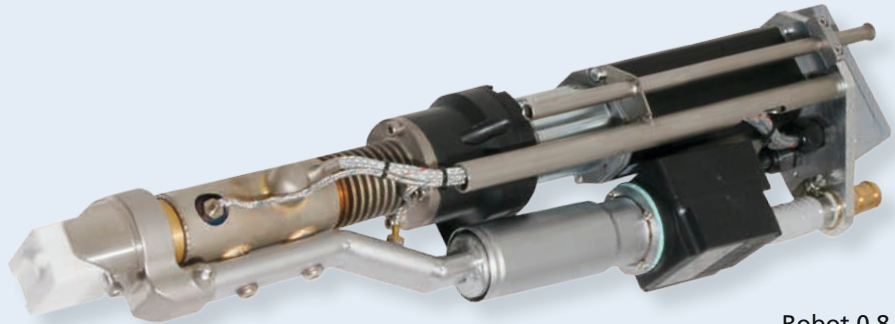
ROBOT

Small,
universal,
innovative

- for automated welding
- for 3D-printing
- light weight
- easy control



Robot 0,4
without preheating



Robot 0,8
with preheating



The small and flexible extruder line to build into automation plants for 3D-printing and plastic welding.

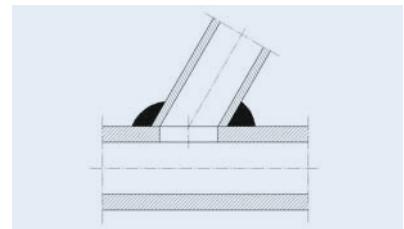
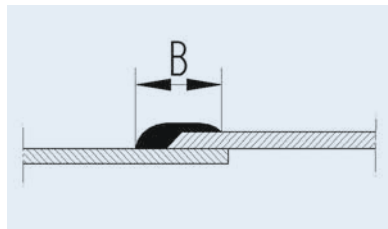
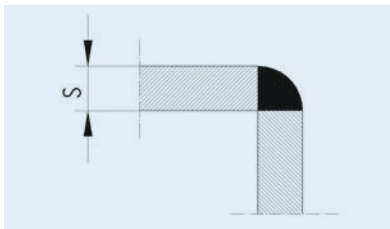
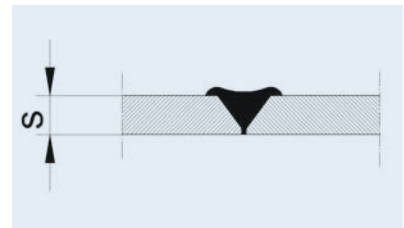
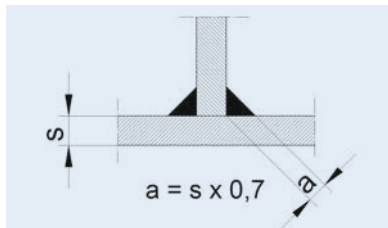
Technical data		Robot 0,4 w/o preheating*	Robot 0,8 w/o preheating	Robot 0,8 with preheating
Voltage	V	230	230	230
Power consumption	W	1500	800	3000
Output	lbs/h	max. 0.88	max. 1.76	max. 1.76
Welding consumable		4 round	4 round	4 round
Size (l x w x h)	mm	370x100x120	540x120x100	540x120x180
Weight	lbs	4.85	10.80	14.33
Protection class I		⊕	⊕	⊕
Markings		CE	CE	CE

Optional: external control

* Version with preheating on request

ACCESSORIES

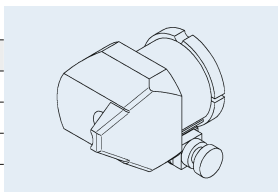
Welding shoe calculation



Types Micro/Robot 0,4

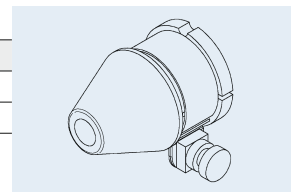
Welding shoe fillet seam

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



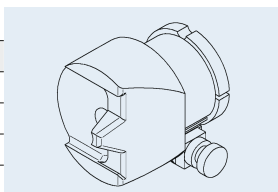
Welding shoe round

Order no.	
D-1183	Ø 7 mm
D-1184	Ø 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	



Nozzle

Order no.	
D-1459	Ø 6 mm
D-1463	Ø 9 mm



Types ExOn 1–8

Transport case (metal)

Order no.

D-0965	Type ExOn 1
D-1644	Type ExOn 2–3
D-1799	Type ExOn 3A
D-1041	Type ExOn 5–6



Revolving head

Order no.

DX321	Type ExOn 2
DX323	Type ExOn 3
DX325	Type ExOn 5–8



Revolving head, 45° angle

Order no.

DX326	Type ExOn 2
DX327	Type ExOn 2A
DX328	Type ExOn 3
DX330	Type ExOn 5–8



Revolving head, 90° angle

Order no.

DX331	Type ExOn 2
DX332	Type ExOn 2A
DX333	Type ExOn 3
DX335	Type ExOn 5–8

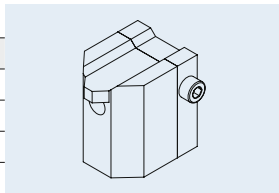


Welding shoes types ExOn 1/1A

Fillet seam

Order no. sheet thickness (mm)

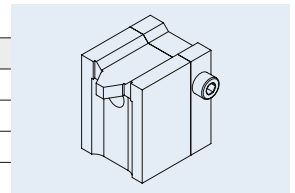
D-0827	5–6
D-0828	8
D-0829	10
D-0830	12
D-1039	15



V-seam

Order no. sheet thickness (mm)

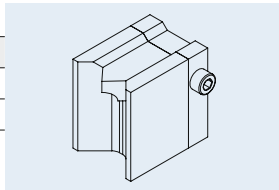
D-0831	5–6
D-0832	8
D-0833	10
D-0834	12



Corner seam

Order no. sheet thickness (mm)

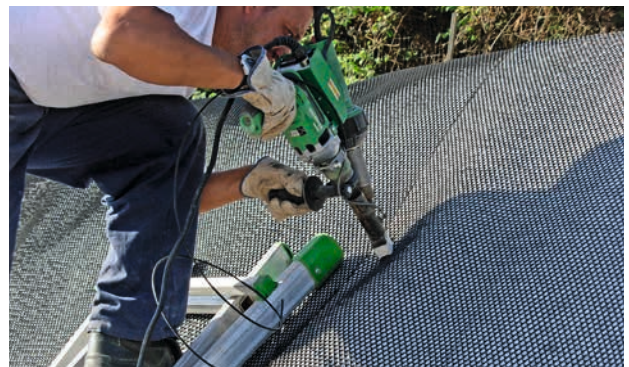
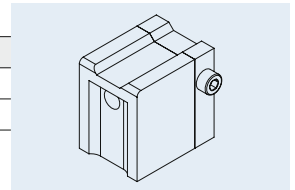
D-0837	5–8
D-0838	10–12



Overlap seam

Order no. seam width (mm)

D-0835	20
D-0836	25



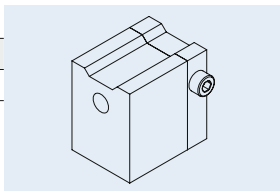
ACCESSORIES

Welding shoes types ExOn 1/1A

Unshaped

Order no.

D-0842 l x w 30 x 40 mm



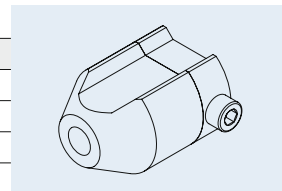
Round

Order no.

D-0839 Ø 10 mm

D-0840 Ø 15 mm

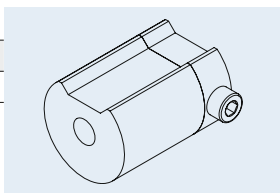
D-0841 Ø 20 mm



Unshaped round

Order no.

D-0843 Ø 30 mm



Welding shoes types ExOn 2-10/Robot 0,8

Fillet seam

Order no. sheet thickness (mm)

D-0174 5-8

D-0175 10-12

D-0177 15

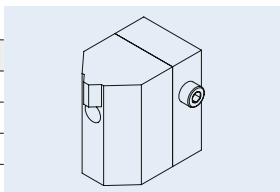
D-0178 20

D-0179 25

D-0180 30

D-0181 35

D-0182 40



Corner seam

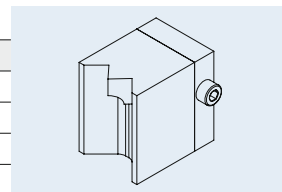
Order no. sheet thickness (mm)

D-0195 5-8

D-0196 10

D-0197 15

D-1221 20



Overlap seam

Order no. seam width (mm)

D-1189 20

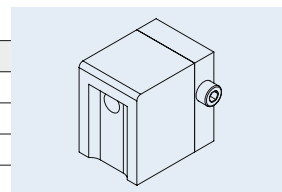
D-0192 25

D-0193 30

D-0194 35

D-0599 40

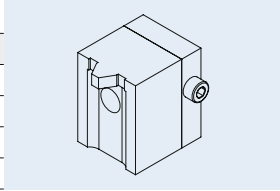
D-1223 45



Welding shoes types ExOn 2-10/Robot 0,8

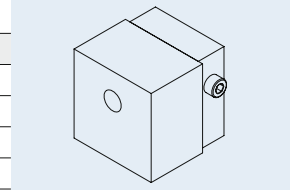
V-seam

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



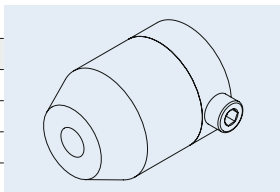
Unshaped

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



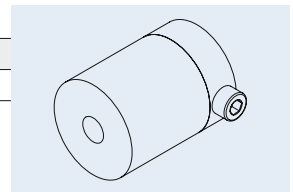
Round

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



Unshaped round

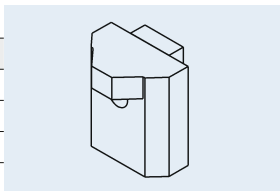
Order no.	
D-0598	Ø 35 mm



Welding shoes type HS28

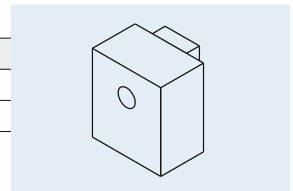
Fillet seam

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



Unshaped

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



ACCESSORIES

Type ExOn 10

Order no.
D-2527

Die with cutting system for mass



Order no.
DX355

Revolving head



Order no.
D-2528

Pneumatic for cutting system



Type Robot 0,8

Order no.
DX350

Revolving head



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 740x280x160 mm



Round

Order no.

5200306 Ø 210 mm

DX122 Ø 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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