

Extrusion Welders



Hand Extrusion Welders – Lightweights with a high output



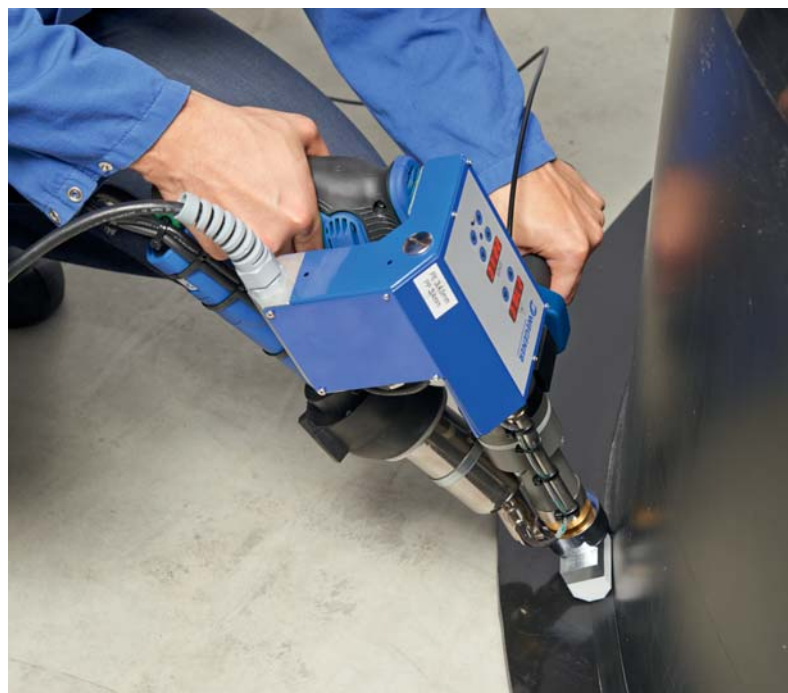
For decades, **WEGENER** has been developing, designing, building and selling high-performance and reliable hand extrusion welders. They combine a very compact and lightweight design with a high welding performance and excellent quality of the extrudate. All extruders in the **WEGENER** EXWELD x2 series have an extrusion part with a fully-fledged 3-zone extrusion screw, a rapid microprocessor-based control system for the extrudate and air temperature as well as the main drive and a patented thermal isolation of the extrusion part from the drive. One new feature is the modular design, so that users can perform minor maintenance and service work themselves. Even demanding materials such as CPVC can be easily processed with the corresponding PVC extruder version.

User-friendly and practical design through:

- **WEGENER** microprocessor control system for air and extrudate temperature, and to control the motor
- Own air supply in the SC version through a **WEGENER** Air-therm 2,200 W with separate control of the air temperature
- EXWELD sigma2 and EXWELD alpha2 external air supply in the EC version through a **WEGENER** air heater 2,500 W
- EXWELD beta2 and gamma2 external air supply in the EC version through a **WEGENER** air heater 3,000 W
- Switch between actual and target value display for air heater and extrudate temperature
- Cold start protection (the device is only ready for work above a certain temperature)
- Monitoring of the pre-set target temperature of the extrudate heater with motor-stop function if the deviation is too high
- Easily exchangeable PTFE welding shoe, adjustable front handle
- The scope of delivery includes a welding shoe of your choice

Application

During extrusion welding, the components to be joined are welded using a continuously fed filler material (welding wire). A similar material is preferably used as welding wire. The extrudate that is continuously produced by the extruder is applied in the weld joint that has been pre-heated (hot gas) to the processing temperature.



Hand Extrusion Welders – Lightweights with a high output

				
Technical Data	EXWELD sigma2 SC Item no. 22674	EXWELD sigma2 EC Item no. 23170	EXWELD alpha2 SC Item no. 20354	EXWELD alpha2 EC Item no. 20249
Power supply:	230 V 1/N/PE 50/60 Hz	230 V 1/N/PE 50/60 Hz	230 V 1/N/PE 50/60 Hz	230 V 1/N/PE 50/60 Hz
Power consumption:	3,390 W	3,690 W	3,660 W	3,960 W
Air requirement:	self-contained air supply	>300 l/min	self-contained air supply	>300 l/min
Heating capacity (air):	2,200 W	2,500 W	2,200 W	2,500 W
Welding capacity (PE):	approx. 1.9 kg/h	approx. 1.9 kg/h	approx. 2.6 kg/h	approx. 2.6 kg/h
Welding capacity (PP):	approx. 1.8 kg/h	approx. 1.7 kg/h	approx. 2.2 kg/h	approx. 2.2 kg/h
Welding rod diameter:				
PE (mm)	3,4,5	3,4,5	3,4,5	3,4,5
PP (mm)	3,4	3,4	3,4,5	3,4,5
Weight:	6.3 kg	5.3 kg *	7.0 kg	5.9 kg *
Dimensions (L x H x W in mm):	410 x 260 x 70	410 x 260 x 110	520 x 220 x 170	520 x 220 x 120

			
Technical Data	EXWELD beta2 SC Item no. 20356	EXWELD beta2 EC Item no. 20253	EXWELD gamma2 EC Item no. 20357
Power supply:	230/400 V 3/N/PE 50/60 Hz	230/400 V 3/N/PE 50/60 Hz	230/400 V 3/N/PE 50/60 Hz
Power consumption:	4,560 W	5,360 W	5,760 W
Air requirement:	self-contained air supply	>300 l/min	>300 l/min
Heating capacity (air):	2,200 W	3,000 W	3,000 W
Welding capacity (PE):	approx. 4.6 kg/h	approx. 4.6 kg/h	approx. 6.2 kg/h
Welding capacity (PP):	approx. 4.3 kg/h	approx. 4.3 kg/h	approx. 5.6 kg/h
Welding rod diameter:			
PE (mm)	3,4,5	3,4,5	3,4,5
PP (mm)	3,4,5	3,4,5	3,4,5
Weight:	9.9 kg	8.9 kg *	9.2 kg *
Dimensions (L x H x W in mm):	600 x 340 x 180	600 x 340 x 160	600 x 340 x 160

* without input lead (cable)

Do you need an extruder to weld PVC or pellets / granules? If so, we are your competent partner too! Contact us now, we will be happy to help!

Which Extruder fits to which sheet thickness ?


Extruder	max. welding output PE (kg/h)	Sheet Thickness [mm]													
		3	4	5	6	8	10	12	15	20	25	30	35	40	50
EXWELD mini	0,7														
EXWELD 322	1,4														
EXWELD sigma2 EC	1,9														
EXWELD sigma2 SC	1,9														
EXWELD alpha2 EC	2,6														
EXWELD alpha2 SC	2,6														
EXWELD beta2 EC	4,6														
EXWELD beta2 SC	4,6														
EXWELD gamma2 EC	6,2														
EXWELD hydro beta2	4,8														

Hand Extrusion Welders – Lightweights with a high output

Accessories

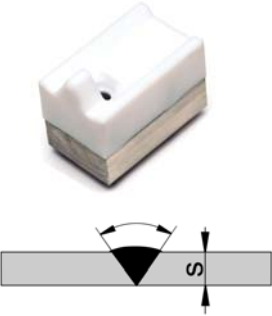
An extensive range of accessories for weld seam preparation, quality control and weld seam finishing as well as a complete assortment of welding shoes for all welding geometries round off the **WEGENER** delivery portfolio.

Welding Shoes for Extrusion Welder:



fillet weld (90° weld): (a-measurement according to DVS Rules)

article no.	sheet thickness	a size
14153	5, 6, 8 mm	5.6 mm
14154	10 mm	7.0 mm
14155	12 mm	8.4 mm
14156	15 mm	10.5 mm
11060	20 mm	14.0 mm
11061	25 mm	17.5 mm
11062	30 mm	21.0 mm
11063	35 mm	24.5 mm
11064	40 mm	28.0 mm



V-weld:

article no.	sheet thickness
11066	8 mm
11067	10 mm
11068	12 mm
11069	15 mm
11070	20 mm
11071	25 mm
11072	30 mm
11073	35 mm
11074	40 mm



Blower DT 16


- On-site blower for extrusion welders with external air supply
- 350 l/min at 0.6 bar
- 1.1 kW alternating current motor, 230 V
- Air distributor for one extrusion welder
- Integrated pressure relief valve
- 2.5 m connection cable with plug

article no. 14177



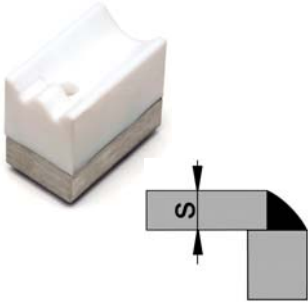
Temperature Gauge

article no. 24644



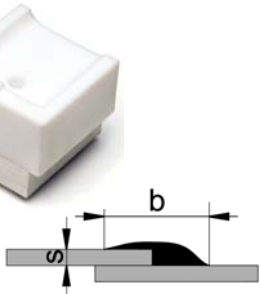
Air Flow Meter

article no. 13125




outer edge weld (90°):

article no.	sheet thickness
11075	5 and 6 mm
11076	8 mm
11077	10 mm
11078	12 mm



overlap weld for membranes:

article no.	dimensions
11079	50 x 50 x 30 mm



rough shoes:

article no.	dimensions
11080	50 x 30 x 30 mm
11082	70 x 40 x 30 mm
13512	50 x 50 x 30 mm



Draw Blade DE/EU article no. 18609

Draw Blade US article no. 19046



Quarter Moon Knife

article no. 10593



WEGENER International GmbH
 Ernst-Abbe-Str. 30
 D-52249 Eschweiler
 ☎ +49 2403 70484-0
 ☎ +49 2403 70484-99
 @ info@wegenerwelding.de
 🌐 www.wegenerwelding.de