



BAND SAW WELDING MACHINES TYPE BAS

The first choice in high-quality flash butt welding for bandsaw blades, band knife blades, strip material, coil joining applications and many other processes.

Welding machines for band saw blades with material from 3 to 215 mm wide or cross-section from 20 to 360 mm²

Machine type		BAS 040	BAS 050 - 01 BAS 050 - 11	BAS 065 - 01 BAS 065 - 11
Welding range		min. - max.	min. - max.	min. - max.
SAWS				
Bi-metal/ tungsten alloy saw blades	mm	3 x 0,6 - 27 x 0,9	6 x 0,6 - 34 x 1,1	10 x 0,7 - 41 x 1,6
Wood saw blades	mm	5 x 0,4 - 40 x 1	6 x 0,4 - 50 x 1	10 x 0,7 - 60 x 1
Stainless steel saw blades	mm	5 x 0,4 - 20 x 0,4	6 x 0,4 - 25 x 0,5	10 x 0,4 - 35 x 0,8
BAND KNIVES				
Band knives	mm	6 x 0,4 - 20 x 0,6	6 x 0,4 - 30 x 0,6	10 x 0,4 - 40 x 0,8
STRIPS				
Max. clamping width	mm	40	50	60
Non-alloy steel, e.g. 1.0038	mm ²	1,8 - 40	3,6 - 75	7 - 100
Stainless steel, e.g. 1.4301	mm ²	20	40	50
MATERIAL THICKNESS SAW BAND / BAND				
Possible thickness min. - max.	mm	0,4 - 2,5	0,4 - 2,5	0,4 - 2,5
TECHNICAL DATA				
Clamping system		manual	manual / hydraulic	manual / hydraulic
Transformer rated power at 50% duty cycle	kVA	3,5 kVA	4,5 kVA	20 kVA

ADVANTAGES OF THE BAS SERIES MACHINES

- High quality weld seam that can be comparable to base material strength
- Homogeneous microstructure that is free of oxides, impurities, and filler materials
- High process reliability with automation and monitored weld quality
- Precise alignment that is needed for high precision production
- Our BAS330 and 340 with automatic deburring device offers faster production with less finishing work required
- Fast and economical machines that are ideal for small, medium and high production and automated welding processes as well
- BAS machines can be used for special applications such as extensions for taps or drill bits, shaped wire, wire rings and many other applications.
- IDEAL-werk's Global Network offers sales and service that you can count on
- Focusing on Industry 4.0 and beyond
- 2-year warranty*

Machine type		BAS 300	BAS 310	BAS 320	BAS 330	BAS 340	BAS 360
Welding range		min. - max.	min. - max.	min. - max.	min. - max.	min. - max.	min. - max.
Saw							
Bi-metal/tungsten alloy saw blades	mm		6 x 0,4 - 41 x 1,3	6 x 0,4 - 54 x 1,6	15 x 0,6 - 80 x 1,65	25 x 0,9 - 105 x 1,65	
Wood saw blades	mm		3 x 0,4 - 50 x 1	6 x 0,4 - 50 x 1,1	15 x 0,6 - 100 x 1,1	25 x 0,8 - 120 x 1,3	35 x 0,4 - 215 x 1,6
Stainless steel saw blades	mm		6 x 0,4 - 35 x 0,8	10 x 0,4 - 40 x 0,8	25 x 0,5 - 50 x 0,8	25 x 0,5 - 60 x 0,8	30 x 0,8 - 80 x 0,8
Band knives							
Band knives	mm	25 x 0,4 - 120 x 1,1	6 x 0,4 - 50 x 0,8	6 x 0,4 - 50 x 1	25 x 0,4 - 80 x 1,1	30 x 0,5 - 120 x 1,1	40 x 0,6 - 120 x 1,3
Steel Strip							
Max. clamping width	mm	120	50	50	90 (100 auf Anfrage)	120	217
Unalloyed steel, e.g., 1.0038	mm ²	10 - 200	1,2 - 100	2,4 - 150	9 - 200	12,5 - 250	24 - 317
Stainless steel, e.g., 1.4301	mm ²	10 - 100	1,2 - 50	2,4 - 60	9 - 100	12,5 - 150	24 - 200
Thickness of saw blade / blade							
Possible thickness min.-max. (other options available upon request)	mm	0,4 - 2,5	0,4 - 2,5	0,4 - 2,5	0,4 - 2,5	0,4 - 2,5	0,4 - 2,5
Diameter							
Unalloyed steel, e.g., 1.0038	mm	3,4 - 16	1,2 - 11,3	1,7 - 13,8	3,4 - 16	4 - 17,8	0,4 - 2,5
Stainless steel, e.g., 1.4301	mm	3,4 - 11,5	1,2 - 8	1,7 - 8,8	3,4 - 11,5	5,4 - 14	0,4 - 2,5
High-alloy tool steels, e.g., HSS	mm		1,2 - 5,5	1,7 - 11,1	3,4 - 15	5,4 - 24	
Technical data Clamping system		hydraulic	pneumatic	pneumatic	hydraulic	hydraulic	hydraulic

Patented technology from the market leader – not a copy, an original

Over 20,000 machines on the market.

More than 100 years of experience.

* on mechanical components



BAS 040



BAS 065



BAS 340