

IDEAL BAS series

Welding Machine for Band Saws and Steel Strips

The IDEAL BAS series is a result of our 100 years of experience in the field of band saw joining.

As a result of our constant research and development generated by our highly skilled staff, as well as from our continuous collaboration with our customers, we have become the worldwide market leader for band saw flash butt welding machines.

IDEAL offers high quality machines engineered in Germany according to DIN ISO 9001 standards with a long-lasting sturdy design. The classical BAS machines for the small and intermediate working range operate with a motorized cam disc and a precisely adjustable spring loaded mechanism that generates the application specific upsetting force.

Options

- GTR automatic annealing device with infrared spectral pyrometer - leads to an automated adjustment of the annealing temperature
- Various shear solutions
- Various grinding machines

Type	BAS 040	BAS 050-01	BAS 050-11	BAS 065-01	BAS 065-11
Clamping Device	manual	manual	manual	manual	manual
Wood Saw Bands	5 – 40 mm	6 – 50 mm	6 – 50 mm	10 – 60 mm	10 – 60 mm
Bimetal and Tungsten alloyed Saw Bands	3 – 27 mm	6 – 34 mm	6 – 34 mm	10 – 41 mm	10 – 41 mm
Stainless Steel Saw Bands, e.g. for food applications	5 – 20 mm	6 – 25 mm	6 – 25 mm	10 – 30 mm	10 – 30 mm
Band Knives, e.g. for leather and foam	6 – 20 mm	6 – 30 mm	6 – 30 mm	10 – 40 mm	10 – 40 mm
S235J (St37-2) Steel Strips	40 mm ²	75 mm ²	75 mm ²	90 mm ²	100 mm ²
Stainless Steel Strips	20 mm ²	40 mm ²	40 mm ²	50 mm ²	50 mm ²



IDEAL Welding
Systems L.P.

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IDEAL BAS 300 series

For the production of Band Saws and Steel Strips

The new IDEAL BAS 300 series comes with a revised structure allowing for faster product change-overs as well as reduced maintenance time.

Key advantages

- Pyrometer for annealing - with integrated LED lighting and automated protection system
- Touch screen control - can save up to 100 different parameter programs, allows an automatic setup of the actual jaw position and the annealing position
- USB interface - for program and parameter transmission and backup
- Path measuring system and parameter control
- Integrated spark protection shield
- Hydraulic or pneumatic clamping device
- Maintenance-free servo motor for individual adjustment of the initial and final speed, as well as the individually adjustable burn-off distance
- Low emission- and cost saving effect results in less pollution, which supports a healthy work environment

Options

- Hydraulic deburring tool
- Pneumatic loading device
- Inserting stop for centering the band ends
- Special clamping device for the alignment of band knives

Type	BAS 310	BAS 320	BAS 330	BAS 340	BAS 360
Clamping Device	pneumatic		hydraulic		
Wood Saw Bands	3 – 50 mm	6 – 50 mm	15 – 100 mm	25 – 120 mm	35 – 215 mm
Bimetal and Tungsten alloyed Saw Bands	6 – 41 mm	6 – 54 mm	15 – 80 mm	25 – 105 mm	-
Stainless Steel Saw Bands, e.g. for food applications	6 – 35 mm	10 – 40 mm	25 – 50 mm	25 – 60 mm	30 – 80 mm
Band Knives, e.g. for leather and foam	6 – 50 mm	6 – 50 mm	25 – 80 mm	30 – 120 mm	40 – 120 mm
S235J (St37-2) Steel Strips	100 mm ²	150 mm ²	200 mm ²	250 mm ²	360 mm ²
Stainless Steel Strips	50 mm ²	60 mm ²	100 mm ²	150 mm ²	180 mm ²



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