

IDEAL BAS Series

Welding Machine for Band Saws and Steel Strips

The IDEAL BAS series is a result of over 90 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 060	BAS 065
Clamping Device	manual	manual	hydraulic	manual	hydraulic
Wood Saw Bands	5 - 40mm	6 - 50mm	6 - 50mm	10 - 60mm	10 - 60mm
Bimetal and Tungsten alloyed Saw Bands	3 - 27mm	6 - 34mm	6 - 34mm	10 - 41mm	10 - 54mm
Stainless Steel Saw Bands, e.g. for food applications	5 - 20mm	6 - 25mm	6 - 25mm	10 - 30mm	10 - 35mm
Band Knives, e.g. for leather and foam	6 - 20mm	6 - 30mm	6 - 30mm	10 - 40mm	10 - 40mm
S235J (St37-2) Steel Strips	40mm ²	75mm ²	75mm ²	90mm ²	100mm ²
Stainless Steel Strips	20mm ²	40mm ²	40mm ²	50mm ²	50mm ²

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 - 50mm	6 - 50mm	15 - 100mm	25 - 120mm	35 - 215mm
Bimetal and Tungsten alloyed Saw Bands	6 - 41mm	6 - 54mm	15 - 80mm	25 - 105mm	-
Stainless Steel Saw Bands, e.g. for food applications	6 - 35mm	10 - 40mm	25 - 50mm	25 - 60mm	30 - 80mm
Band Knives, e.g. for leather and foam	6 - 35mm	6 - 50mm	25 - 80mm	30 - 120mm	40 - 120mm
S235J (St37-2) Steel Strips	100mm ²	150mm ²	200mm ²	250mm ²	360mm ²
Stainless Steel Strips	50mm ²	60mm ²	100mm ²	150mm ²	180mm ²