

IDEAL BAS Series

Welding Machines 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 operates with a motorized cam disc and a precisely adjustable spring loaded mechanism that generates the specific upsetting force for each application.

Options:

- **GTR automatic annealing device** - leads to an automated adjustment of the annealing temperature through the use of an infrared spectral pyrometer
- **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 - 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 - 54 mm
Stainless Steel Saw Bands, e.g. for food applications	5 - 20 mm	6 - 25 mm	6 - 25 mm	10 - 30 mm	10 - 35 mm
Band Knives, e.g. for leather and foam	6 - 20 mm	6 - 30 mm	6 - 30 mm	10 - 40 mm	10 - 40 mm
S235JR (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 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**
- **Centering device** for precise saw band alignment
- **Special clamping device** for band knives

Type	BAS 310	BAS 320	BAS 330	BAS 340	BAS 360
Clamping Device	pneumatic	pneumatic	hydraulic	hydraulic	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
S235JR (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