

ALO 187-B

Heavy duty setting machine with programmable feed stroke and SGS camera system for band saw blades



The new generation ALO setting machine together with the SGS camera system will help you to monitor and get in full control of the setting process and quality. The SGS system automatically adjust over all set and symmetry by servo motors.

New features include programmable linear servo feed pawl unit which enables varying feed lengths and set patterns. A new setting head sets all teeth, both sides, simultaneously and can thereby handle both longer set groups and harder band material.

Adjustments such as setting height and the feed units pick-up and drop-off positions can be saved in the HMI making the set-up or change-over of the machine easy and quick for the operator.

Another novelty is pneumatically blade guide clamping which simplifies loading and unloading and ensures that bands are guided correct.

A completely new design of the machine head and clamping unit with very few and durable parts ensures high availability and higher set precision even on more demanding sizes and materials.

CAPACITY:

Band width:	20 - 100 mm	Setting tolerance:	±0.01mm
Bland thickness:	0.4 - 1.6 mm	Symmetry tolerance:	±0.01mm
Feed stroke:	max 200 mm.	(Variable length/stroke.)	
Tooth pitch:	0.5 - 14 tpi		
Group lengths:	140 mm set teeth + neutral tooth/stroke		
Material:	Soft or harden bands		

- A programmable feed pawl system give new possibilities, like variable feed lengths
- Straight and fixed band back position through the machine from coiler to coiler
- New enforced clamping system that also eliminates over-clamping issues
- Automatic over all and set symmetry adjustment

OPTIONS / ACCESSORIES:



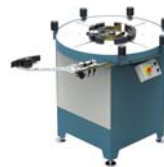
ALO 61201
Grinding fixture



ALO 61207
Grinding fixture



ALO 83-60
Set gauge



ALO 880
Coiler



ALO 106 CUBE
Coil handling system





New programmable linear servo carry out the feeding of the blade.



Operator friendly HMI gives full control of the setting operation.



Completely new design of the machine for the setting demands of today and tomorrow.



With the SGS camera system you get in control of the setting result and quality

ALO 187 band saw setting machine can handle all known forms and groups of teeth with a repeated feed pattern of max 200 mm. In addition, the machine with its new linear servo feed unit, can be set-up to alternate different stroke lengths, opening possibilities for never before seen group lengths and patterns.

The band is guided by pneumatically operated band guides to ensure that the band is held in position and also facilitates loading and unloading of the bands. Bands are always oriented from the back, and the setting head are adjusted up or down with an electrical motor for different band widths, making changeover between widths very easy for the operator.

The clamping jaws parallelism is adjusted by two micrometres in the front of the machine equipped with a display that can show both metric or inch values. The clamping jaws pressure are adjusted by a knob on the back of the unit, if clamping pressure is adjusted to high, there is a safety feature preventing mechanical failure.

The setting head can also be tilted to optimize the set result over long groups.

In the operator friendly HMI all the set related values can be saved making change-over and set-up easy for the user. A high resolution CCD/SGS camera measures the set teeth and servo motors will automatically adjust over all set and set balance.

The feed pawls and setting tools are of the same standard as on previous ALO setting machines, on certain sizes of setting tools minor adjustments are needed before use in ALO 187-B.

TECHNICAL SPECIFICATION:

Band width:	20 - 100 mm
Band thickness:	0.4 - 1.6 mm
Overall setting accuracy:	± 0.01 mm
Symmetry accuracy:	± 0.01 mm
Tooth pitch:	0.5 - 14 TPI Up to 32 TPI (without measuring)
Max set length/set cycle:	140 mm + unset tooth
Max stroke/feed length:	200 mm
Air pressure:	6.3 bar
Standard voltage:	400VAC ±10% 3-phase, 50-60 Hz ±1% directly earthed system, other voltages available upon request.
Max power consumption:	Approx 1.5 kW
Weight:	1030kg
Space requirement (l x w x h):	2 x 1.5 x 2 m

