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ALO 177

TL

Cut to length machine with match finder system

The newest generation of ALO's cut to length machine is completely new and designed with the unique and innovative tooth matching system called "match finder". Never before has it been so easy to prepare band saw blades for welding thanks to our brand-new ALO 177 cut to length machine.

The new design makes it so easy to perform a setup, simply load an actual blade into the machine, activate the match finder feature, toggle matching preference on the screen and save. Now there is no need to manually adjust tooth detector in any axis. Simply specify the size from a tooth where the finished weld should be located and then



prepare the band saw blade for welding with compensation for weld burn off for perfect tooth and pattern match. The process is fully automatic and can repeat the same set up time after time with excellent results. Just choose length, band width and how many blades you need to cut and go!

MF+ (Match Finder Plus) is an option, which allows you to complete an intact loop of several shorter pieces that you weld together. This helps you to save material when, either of the coil reaching the end or if a band error is detected.

With this machine, ALO is changing the way band saw blades are cut to length, the new ALO 177 cuts your blades faster, more consistent and with higher accuracy than ever before.

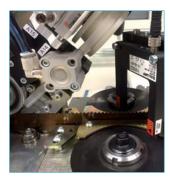
HIGHLIGHTS

- Tooth matching are now easier than ever with the new system "Match finder"
- Several different automatic cutting modes for band saw material or edge material
- A fully manual cut to length mode for guick process of single or small batch orders
- VIP patterns as well as regular patterns can automatically be cut to length
- New cut to length mode for set pattern match of band saw blades with regular pitch
- Band ends fully prepared for welding with perfect tooth match after welding process
- Blade pattern are compared to program pattern before auto start
- Completely new mechanical design of feed and drive unit
- New and improved shear unit design that warrant for trouble free cutting



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The match finder system

Band length is measured by a metering wheel and a pulse transducer to eliminate band slipping faults.

Tooth pitch, band width, length with tolerance and number of bands are chosen from a drop down bar in the HMI panel. The machine will compare the actual blade loaded into the machine to the saved group pattern. If they match, the machine will execute the cut to length job fully automatic.

With no match the machine will alarm the operator, this will minimize the risk for human errors by loading wrong band type or size. ALO 177 also has a detector for pre-marked band faults that will stop automatic mode.

The cut are made by a new powerful pneumatic shear unit with blades made of high speed steel. The slide is forcibly guided and will follow the cylinders wedge back on the return stroke. The shear cuts widths between 6-100mm.

The machine are available both with left to right, or right to left band feed direction and with different useful options.



The new improved shear unit

Match finder legend:

First priority cut, e.g. start a new blade at this gullet



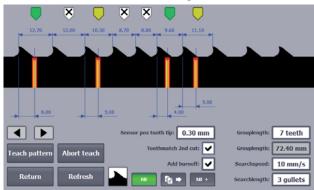
This gullet(s) not allowed to be used for tooth match



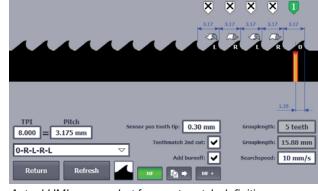
This gullets are ok to match with each other, also in combination with first priority cut



This gullets are ok to match with each other



Actual HMI screen shot from VIP group definition



Actual HMI screen shot from set match definition

TECHNICAL SPECIFICATION:

Band width: 6 -100 mm
Band thickness: 0.3 - 1.6 mm
Band length: 0.25 - 20 m
Air pressure: 6.3 bar

Voltage: 400 VAC ±10% 3-phase, 50-60 Hz ±1% directly earthed system

Space requirement (LxWxH) 0.7 x 0.8 x 1.4 m

REMARKS:

Band width between 6-10 mm requires a band guide, 200674-L or 200674-LV. Tooth match is possible from 10mm.

OPTIONS:

177-BAR: Barcode scanner
177-CAP: Tooth protection applier
177-CBD: Color band detector
177-DBD: Double band detector
177-INK-KIT: Mounting kit for inkjet printer

177-MF+: Match finder plus

177-OCU: Oil cleaning unit for the band

177-TCL: Tooth protection lift unit

200674: Band guide **200674-V:** Band guide

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WITH RESPECT FOR THE
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