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lo: B690-81combi 2 2019-07-30 1(2) MS TL ALO Center AB Industrivägen 10 SE-792 32 Mora Sweden +46 250 94900 info@alocenter.se www.alocenter.se



ALO 690-81 Combi

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Setting and Induction flex hardening of ABCIII hand hack saw Setting and induction hardening of carbon hand hack saw



CAPACITY:

Blade length:	250 - 320 mm
Blade width:	12 - 13 mm
Band thickness:	0.5 - 0.7 mm
Tooth pitch:	14 - 32 TPI
Production speed:	18-24 blades / min

OPTIONS / ACCESSORIES:



ALO 81-60 Set gauge



ALO 61201 Grinding fixture

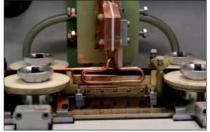
THE SYSTEM COMPRISES:

Pay off magazine Setting machine type ALO 681 - S Hardening generator and inductor Closed cooling system Collect magazine

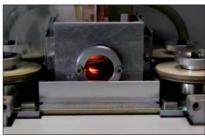


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ABCIII blade hardening



Carbon blade hardening with inductor immersed in guench oil tank



Collect magazine

MACHINE DESCRIPTION

ALO 681-S setting machine

The blades are fed from the feed magazine containing approx. 700 blades. The setting machine is fully automatic and all functions are controlled by a PLC. The feed magazine will feed one blade at a time to the setting unit where they are accurately set. Portions at each end of the blades may be left unset. Setting symmetry and over all set is easy to adjust with micrometers. During set operation, the blade is clamped hard to ensure a very accurately set result both for raker and wavy set patterns.

ABCIII material

Two pairs of ceramic rollers driven by a servo motor feeds the blades into the work coil, where they are accurately guided by means of a ceramic guide system. In the work coil the teeth and the back edge are hardened and the rest remains soft, thus giving a very flexible blade.

The blades are air quenched and transported out of the work coil by means of two pairs of ceramic rollers.

Carbon blades

the work coil, which is placed in a quench chamber and immersed in the quenching medium, is made of round copper tubing and is designed to simultaneously heat the teeth and the back of the blade. It is adjustable in height to permit optimisation of the heat pattern. The work coil is interchangeable and can easily be replaced.

To change set up between ABCIII and Carbon configuration is done easily by change of inductor and guide or quench chamber.

Collect magazine

The magazine consists of a pair of screw feeders and a stacking magazine. The blades drop down to the screw feeder which transports the blades into the magazine where they are vertically stacked.

TECHNICAL SPECIFICATION:

Blade length:
Blade width:
Blade thickness:
Tooth pitch:
Setting tolerance:
Approx. setting / hardening speed:
Approx magazine capacity:
Air pressure:
Standard voltage:

Blade steel grade:

250 - 320 mm 12 - 13 mm 0.5 - 0.7 mm 14 - 32 TPI 0.02 mm 18-24 blades / min 700 blades 6.3 bar 400VAC ±10% 3-phase, 50-60 Hz ±1% directly earthed system, other voltages available upon request. Power consumption (at max output power): 32 kVA ABCIII, M2 or E945

Other customer requirements may be discussed between customer and ALO



SWEDISH QUALITY WITH RESPECT FOR THE ENVIRONMENT AND SAFETY REGULATIONS