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# ALO 490-L

## ALO 490-L Inductive tooth hardening and tempering of wood hand saws



### THE SYSTEM COMPRISES:

Hardening / Tempering generator Hardening / Tempering inductor Closed cooling system Blade feeder

### CAPACITY:

Blade length:	250 - 812mm	10 - 32"
Blade width:	50 - 150mm	2 - 6"
Blade thickness:	0.5 - 1.6mm	0.020 - 0.063"
Tooth pitch:	4 - 12 TPI	
Feedspeed:	5 - 8 m/min	16 - 25 ft/min



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Oscillating circuit with hardening/tempering inductor



Loading / unloading position with receiving magazine

### MACHINE DESCRIPTION

#### Generator

The generator are enclosed in separate aluminium cabinet, equipped with separate oscillating circuit connected to the cabinet via coaxial cables. The generator are air cooled, thus limiting the cooling water requirements to inductor and oscillating circuit only. The generator is equipped with an automatic anode current regulator, thus ensures a stable power during the hardening operation, and a chopper to control the output power during the tempering sequence.

#### Inductor

The inductor are made of copper tubing and can be custom made for different pitches and band gauges. The inductor are adjustable in height for different blade widths and sideways for different blade gauges. The inductor can easilybereplaced.

### Blade feeder

The blade feeder unit consists of a linear feeder driven by a servo motor and are equipped with a blade holder adjustable for different blade lengths, and a leveling device for correct positioning of the blade in relation to the inductor. The blades are manually loaded with the teeth up in the blade holder and the blade feeder feeds the blades through the hardening inductor, after which the teeth are quenched with air. The feed direction of the linear feeder is then converted and the blades are tempered on the return movement. The heat treated blades are then automatically dropped into a receiving magazine for 10-15 blades.

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TECHNIC	AL SPECIFICATION:		
Blade length	1:	250 - 812mm	10 - 32"
Blade width:		50 -155 mm	2 - 6"
Blade thickn	ess:	0.5 - 1.6 mm	0.020 - 0.063"
Tooth pitch:		4 -12 TPI	
Air pressure	:	6 bar	87 psi
Standard vo	Itage:	400VAC ±10% 3-phase, 50-60 Hz ±1% directly earthed system,	
		other voltages available upon request.	
Max output	oower Hardening generator:	5 kW	
Power cons	umption (at max output power):	10 kVA	
Space requi	rement:	3 x 2 m	9 x 6 ft

SWEDISH QUALITY WITH RESPECT FOR THE ENVIRONMENT AND SAFETY REGULATIONS