Document No: B191S Edition: Date: 2018-02-05 Page: 1(2) Prepared: Approved:

5

AP

MS

ALO Center AB Industrivägen 10 SE-792 32 Mora Sweden phone: +46 250 94900 +46 250 18332 fax: e-mail: info@alocenter.se



www.alocenter.se

ALO 191S Induction tooth hardening of bandsaw blades



THE SYSTEM COMPRISES:

Feed unit Hardening generator and inductor Closed coolant system

CAPACITY:

Band width 6 - 50 mm Band thickness 0.6 - 1.4 mm Tooth pitch 0.5 - 4 tpi

- High efficiency and low energy consumption generator with air-cooled oscillator tube.
- Band feeder with a pulling 4-wheel drive system designed for accurate speed and guiding.
- Electromagnetic brake for optimal control of band tension.
- High reproducibility due to accurate digital/analogue settings of power, speed and work coils.
- · Fast and easy start up and change over.



ALO 90915/16/17/18 Collapsible coil center



ALO 831 Double coiler

ALO 880 Electric coiler



ALO 106 CUBE Coil handeling system



ALO 191S

OPTIONS / ACCESSORIES:

ALO Center AB Industrivägen 10 SE-792 32 Mora Sweden phone: +46 250 94900 fax: +46 250 18332 e-mail: info@alocenter.se

www.alocenter.se

ALO 191S



Band feed unit



Inductor and air quench nozzles

MACHINE DESCRIPTION

Band feeder

The band feeder consists of two units, one 4 wheel feed unit and one two wheel unit with an adjustable brake to control the band tension using a electro magnetic friction brake. The rolls are made of hardend tool steel with knurled circumference. The four rolls on the feed unit are driven by a AC-motor. The speed is controlled by a frequency controller. The oscillating circuit with the inductor are located between the brake and the feed units such that the band is pulled through the inductor at a controlled tension. The teeth are quenched in air by means of a pair of nozzlers.

Generator

The hardening generator is enclosed an aluminium cabinet and equipped with a separate oscillating circuit connected to the cabinet via a coaxial cable. The generator is air cooled, thus limiting the cooling water requirements to inductor only. The generator is equipped with a chopper for infinitely variable control of the output power.

Inductor

The inductor is made of copper tubing and can be custom made for different pitches and band gauges. They are adjustable in height for different blade widths and sideways for different blade gauges. The inductors are interchangeable and can easily be replaced.

Closed circuit coolant/circulation system

The closed circuit cooling system is used for cooling of HF-generators and similar equipment where clean nonconductive cooling water with controlled temperature and constant waterpressure is required.

TECHNICAL SPECIFICATION:

Band width: Band thickness: Tooth pitch: Capacity: Air pressure: Standard voltage: 6 - 50 mm (other widths on request) 0.6 - 1.4 mm 0.5 - 4TPI 5 - 10 m/min 6.3 bar 400VAC ±10% 3-phase, 50-60 Hz ±1% directly earthed system (other voltages available upon request) 10 kVA

()

Power consumption (at max output power):

Other customer requirements may be discussed between customer and ALO.

SWEDISH QUALITY WITH RESPECT FOR THE ENVIRONMENT AND SAFETY REGULATIONS