



Induction Technology

AICHELIN Group

Vertical Induction Hardening Machines – universally applicable



Type UML
for small to major Batches

RELIABILITY AT WORK

Vertical Hardening Machine Type UML designed for small to large-scale Batches

A universally applicable, easy-to-install hardening machine for minor to medium-weight work pieces to be produced in differently sized and compact constructions, designed for small to high batch production series, equipped with a variety of supplementary facilities which can be adjusted to the user's specific requirements. Low-cost and, thus, efficient construction to guarantee the reliable and consistent processing of work pieces of reproducible, high quality.

The inductor feed motion and the rotation of the work pieces are realised via NC drive.

Comprehensive and easy operation owing to CNC control.

Ready for immediate use, only shortly after delivery.

Basic equipment of the universally applicable machine

- CNC control, type Siemens 840D sl
- User-friendly, comprehensible operation
- Visualisation and documentation of all parameters relative to the process via a coloured operation panel
- Vertical inductor guide way designed as CNC axis
- Cross adjustment, engine-driven
- Working space equipped with stainless material

Connections to network, Ethernet, Internet, modem and automation interfaces are possible.

Quality control packages round out the range of the services we offer.

Technical Data	UML 500	UML 1000
Width	1,650 mm	1,650 mm
Depth	3,400 mm	3,400 mm
Height (over all with lifting door)	3,050 mm	3,050 mm
Feed distance-heating inductor NC-Y-axis	650 mm	1,150 mm
Clamping length between centers	600 mm	1,000 mm
Free work piece passage (referred to the centre of supporting bearing)	350 mm	350 mm
Max. weight of work pieces on supporting bearing (supporting bearing watertight)	30 kg	
Rate of feed of the linear axis, continuously variable, position controlled - max. rate of feed	up to 10,000 mm/min	
Number of revolutions of the supporting bearing, adjustable via frequency converter	50-400 U/min	
Inductor regulating range NC-X-axis; position controlled	220 mm	
Z-axis; motor driven (step size 0.1 mm)	± 15 mm	
Converter types	HF converter MF converter	150-350 kHz to 75 kW 10-20 kHz to 150 kW

Any indications of sizes are to be understood as circa sizes. Subject to any kind of alterations, errors excepted.

Special Equipment

Diverse models of indexing table
NC inductor in-feed axis
Automatically driven splash guard



Certified according to DIN EN ISO 9001:2000 and VDA 6.4

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