



richelin
GRUPPE

Induction Hardening Machine UM-Series



Multi-Work Machine for varied Ranges of Application

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Multi-work machine for varied ranges of application

Characteristic features:

The equipment has been extensively improved and is of universal utility owing to its reliable construction as well as to empirical figures we have established on a wide range concerning induction hardening. The **UM-series** can be accommodated to meet the requirements of our customers suitable to different sizes and provided with user specific accessories. On the same machine – for example as well small flanged shafts of midsize series as longer shafts on traverse, too, can be hardened in economical way on base of rotation traverse treatment.

As a result of the universality and of the varied accessories, all mostly required hardening and tempering operations can be realized by using this machine. The stability of the machine is guaranteed because of a L-figured framework, which is required for a precise positioning of the axles.

Authoritatively for the precision are on the one hand the in high-precision work sized guiding devices and linear units, but on the other hand the CNC-control, too, which is able to evaluate the measured values in parts of seconds die, to memorize new data and to control new positions. Not only the reliability of operation of a machine is decisive, like the production of workpieces in constant, reproduceable quality but also the documentation of the manufacturing data are important for the range of application. Furthermore, we have attached a great importance to the easy and readily comprehensible handling of the machinery.

Further plus points of the machine:

Potential remote computing to the control system via modem interface by our EMA-technicians that means an effective engineering advise and a rapid service for our customers.

Technical Data:	UM 500	UM 1000	UM 1500	UM 2000
Free clamping length (mm)	500	1000	1500	2000
Travel inductor-traversing axle (mm)	600	1100	1600	2100
Total high (mm)	2530	2960	3530	4320
Speed of the traversing axle	30 to 10200 mm/min			
Travel of the inductor positioning axle	240 mm			
Speed of the inductor feed axle	30 to 7200 mm/min			
Travel of the inductor cross adjustment	+/- 15 mm			
Free workpiece passage (diameter)	600 mm			
Max. workpiece weight on the supporting bearing	650 kg			
Rotational speed of the cylindrical axle	0.05 to 400 min ⁻¹			
Rotational speed of the circular table stations	150 to 580 min ⁻¹			
Travel speed of the tailstock	1600 mm/min			
Electrical supply	3 x 400 V / 50 Hz			
Power input	4 kVA			

Accessories:	
Supporting table in 72° and 90°-dividing with single- or double locating fixtures of the workpieces	For processing of small workpieces when no tail centre is required
Double tailstock	
Supporting table with indexing	For the hardening of big components up to a diameter of 2500 mm

Subject to technological changes or modifications

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

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