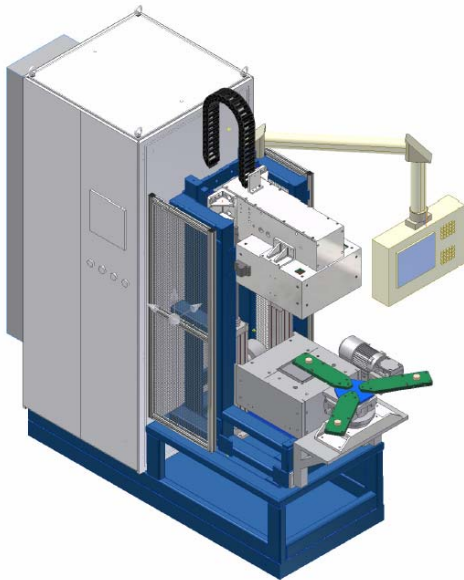


UMH of the line „M“



Heating machine

At the UMH (Uniform Magnetic Heating) process the work piece to be heated is placed into an alternating magnetic field. The changing of the polarization generates friction losses in the part and therefore heat. This innovative process is excellent controllable. Amongst others it offers a great flexibility when integrated in industrial production processes due to its high heating speed. The advantage of heating through hysteresis losses is the homogeneous heating of the work pieces. Compared to the conventional heating systems, the UMH process avoids internal tensions deformations. Conventional heat processes which heat the work piece by heating the surface and heat conduction or heat radiation in direction of the core suffer from internal heat gradients.

The UMH machines of the line “M” (middle) are all-purpose applicable for a wide range of tasks. In addition to preheating for shrinking can provide applications for tempering, pre- and postheating, bonding and so on.

Technical data

Machine parameters

power	37 - 73 kW
working frequency	50 - 400 Hz
current of coil	ca. 100 A
voltage	400 (50 Hz) V

Installation conditions

length	2200 mm
width	800 mm
height	2300 mm
installation area	3 m ²

Core

dimensions (cross-section) 100x100, 75x150 mm
core distance 400 mm

Work piece

max. dimensions: length 300 mm
max. dimensions: width 300 mm
max. dimensions: height 300 mm
min. dimensions: height 10 mm
max. weight of work piece ≤ 30 kg
material of work piece ferromagnetic, paramagnetic

Heating parameter

heating time bis zu 20 K/s
temperature variation ± 10 °C
 Δ residual magnetism < 15 μ T

Media

supply voltage 3 x 400V, $\pm 10\%$, 50Hz; TN-S System
compressed air 6 bar $\pm 10\%$

Certificates

Manufacturer's Declaration or
EC Declaration of Conformity

Accessories

core adapter
core changer
work piece changer
down holder
operator protection

Options

noise insulation
separate PLC control panel
measurement technique

Additional features and special design are available on request.

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