# **LM-01-R**

# **CNC- Roughing machine**



# AUTOMATISIERUNGSTECHNIK UND EDV-SYSTEMLÖSUNGEN



- Same compact housing as LM-01
- Very powerful miller drive motor
- Highest possible production volume
- High precision and efficiency
- Conventional clamping with handwheel
- All last types possible (Hinge, v-cut, etc.)
- The roughed lasts can directly be finished in the LM-01 machine
- Low working noise
- Optimized for orthopedic / custom shoelasts
- No CNC machine knowledge required
- Easy operation, learnable in short time

# LM-O1-R

# **Specifications:**

Cycle time: ~1.0min / roughing cycle Dimensions: 0.75m x 1.2m x 2.2m

Weight: ~1450kg Power: ~4.5kW

Connection: 3phase 400V 50Hz / 3phase 230V/60Hz

Germany Im Kohlteich 5, 66969 Lemberg Tel +49 63 31 / 4 51 93 Fax + 49 63 31 / 4 69 04 Internet: http://www.trl.de e-mail: trlgmbh@t-online.de

### Geschäftsführer:

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# **LM-01**

# **CNC- Last Milling Machine**



# AUTOMATISIERUNGSTECHNIK UND EDV-SYSTEMLÖSUNGEN



- Innovative clamping mechanism which holds the last in the toe area to prevent the last from vibrating while roughing (Patent pending 'DE102019007198.0')
- New invention milling mechanism for all toe shapes and best possible milling results (Patent pending 'DE102020001470.4')
- Fully automatic milling process to the completely finished last, also on heel and toe
- Last height up to 200mm, length up to 500mm
- Produces any .stl model within a very short time
- Machine accuracy < 0.05mm on the whole last
- Lasts can be roughed in any conventional machine
- Mills any last type (hinged, v-cut, ...)
- No last deformation because of the high clamp force as in conventional last milling machines
- No manual work required on the last
- The last can be used directly for sole injection

- No additional machines needed for last making
- Perfect for model development
- Low working noise
- Optimized for orthopedic / custom lasts
- No CNC knowledge required
- Easy to operate

### Specifications:

Cycle time:  $\sim$ 5min to finish a last Dimensions:  $0.75m \times 1.2m \times 2.2m$ 

Weight: ~1450kg

Power consumption: ~1.5kW

Connection: 3phase 400V 50Hz / 3phase 230V 60Hz

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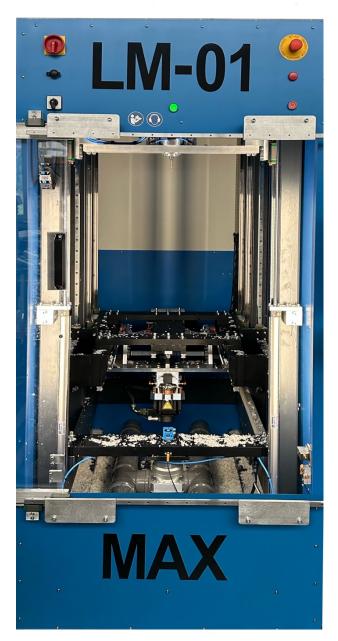


# LM-01 MAX

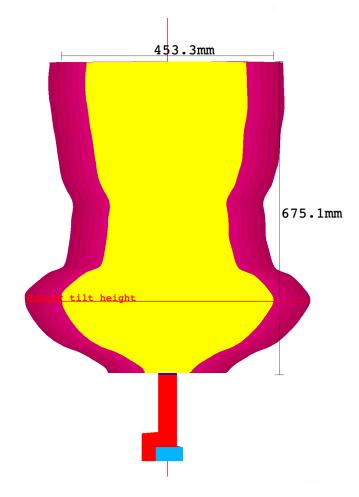
# **CNC- Milling machine**

AUTOMATISIERUNGSTECHNIK UND EDV-SYSTEMLÖSUNGEN

TRL GMBH - IM KOHLTEICH 5 · D-66969 LEMBERG



- Large housing for big models
- Strong and robust design
- Same accuracy as LM-01 / LM-02
- High precision and efficiency
- Optimized for leg / torso shapes
- All last types possible (Hinge, v-cut, etc.)
- Low working noise
- Optimized for orthopedic / custom shoelasts
- No CNC machine knowledge required
- Easy operation, learnable in short time



### **Specifications:**

Cycle time: ~5.0min / finishing cycle

~2.0min / roughing cycle

Dimensions: H2.3m x D2.1m x W1.1m

Weight: ~2500kg Power: ~4.5kW

Connection: 3phase 400V 50Hz / 3phase 230V/60Hz

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# **LM-02**

# **CNC-Last Milling Machine**



**AUTOMATISIERUNGSTECHNIK** UND EDV-SYSTEMLÖSUNGEN

TRL GMBH - IM KOHLTEICH 5 - D-66969 LEMBERG



- at the same time for unmatched efficiency
- Can also rough the lasts from a raw block
- New invention milling mechanism for all toe shapes and best possible milling results
- Fully automatic milling process
- Last height up to 200mm, length up to 500mm
- Ultra high machine accuracy (< 0.05mm)
- Works with any .stl or .h2k input model
- Mills any last type (hinged, v-cut, ...)
- Low maintenance, high efficiency machine
- Can work with wood, plastic or foam material
- Optimized for orthopedic / custom lasts
- Easy to operate, no cnc knowledge required

### **Specifications:**

Cycle time: ~3min for fineturning Output: 30 individual lasts / hour Dimensions: W1.2m L1.5m x H2.0m

Weight: ~1.850kg Power: ~4.5kW

3phase 380-400V 50-60Hz (or 3phase 230V 60Hz)

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