



## LGT-S II

### Modern functional design

The LGT-S II is a special high-precision milling machine for the engraving of 2D- and 3D-data on tire sidewall molds in nearly every size. The machine body is a heavy duty, torsion free, tubular steel construction filled with a vibration reducing compound for an extremely high stability. The machine enclosure with the collecting tray allows the wet processing of the molds. Sidewall molds for car tires and truck tires can

be produced with best quality. The X- and Z-axis are located on the crosswise frame, the C-axis turns the rotation symmetrical work piece, the B-axis needs to be selected (depends on milling spindle). The LGT-S II wins with its modern, functional design and integrated control cabinet. Hereafter some highlights of the machine are described.

#### Z Axis with weight compensation

- Rotation axis (B-Axis)
- Working with milling spindle up to

10kW

- Working with tools up to a diameter of 13mm, HSK E32

#### Machine body with additional options

- Disk type tool changer with 30 stations
- Optional chain-type tool changer with 50 stations
- Optional closing of the roof, exhaust system can be used
- Optional Blum-Laser for tool measuring

## Technical data

Largest clampable work piece diameter	1.530 mm
Largest engraveable work piece diameter by vertical spindle	1.530 mm
Size of rotary table faceplate	1.200 mm
Max. load bearing capacity of rotary table	3.000 kg
C-axis working range (rotary table)	360°
X-axis working range	100 - 765 mm
Z-axis working range	400 mm
B-axis working range	+/- 90°
<b>High-frequency spindle L80</b>	
Driving power	S1 2,6 kW/ S6 3kW/ Pmax 5,16kW
Speed range	5.000 - 50.000 min <sup>-1</sup>
Toolholder	JAEGER change cone WK19
Tool shank diameter	3 - 8 mm, optional 1/4" - 3/8"
<b>High-frequency spindle Z100</b>	
Driving power	S1 6 kW/ S6 10kW/ Pmax 14kW
Speed range	5.000 - 42.000 min <sup>-1</sup>
Toolholder	HSK 32 ER 16
Tool shank diameter	3 - 13 mm, optional 1/4" - 1/8"
Machine control	High-End AC Servo control, PC based; 15" TFT
<b>C-axis</b>	
Resolution	0,000000477°
Max. rapid feed	15,7m/min (R=600mm)
<b>X-axis</b>	
Resolution	1,2 nm
Max. rapid feed	15 m/min
Measuring system	Glass scale
<b>Z-axis</b>	
Resolution	0,61 nm
Max. rapid feed	15 m/min
Measuring system	Glass scale
<b>B-axis</b>	
Resolution	0,000000698°
Position uncertainty (VDI / DGQ 3441P)	0,012°
Max. rapid speed	18,8 m/min at R=150mm
Min. / Max. distance spindle nose to faceplate surface	55/455 mm
<b>Machine enclosure</b>	
Extended safety features	for wet processing on request (incl. oil bin), oil mist exhaust system upon request Tool measuring point with Emergency-Off-function Tool breakage detection
Max. space requirement (width*height*depth) by open doors	3.800 x 3.050 x 3.550 mm
Weight of machine	5.500 kg