RM 500S Laser

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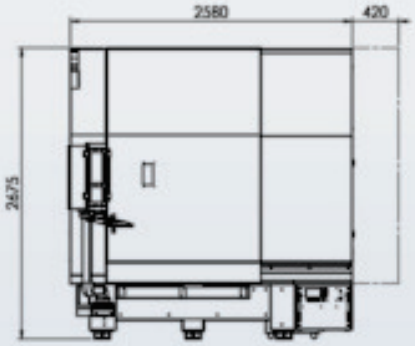
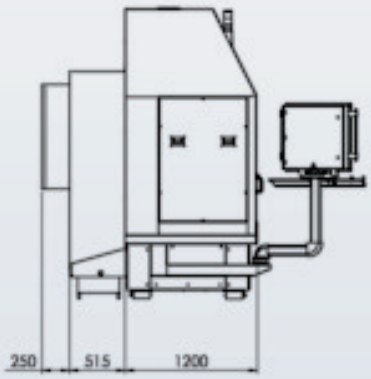
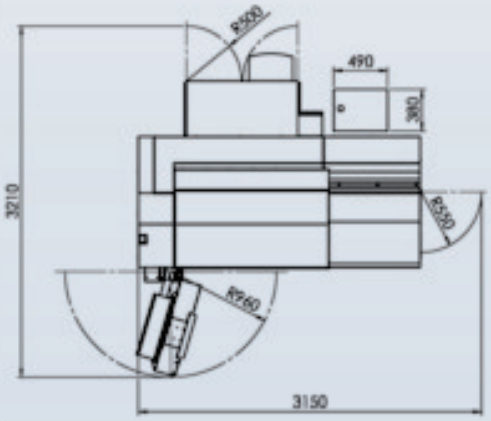
High tech to the highest standards - LANG RM 500S Laser. Where you reach the limits of milling due to tool geometry, there comes our RM laser model in play. With a fiber laser with 1064 nm wavelength, delicate small structures can be put into practice. Contrary to conventional methods, the laser works contactless, without any mechanical forces and without tool abrasion. Other advantages of this quite new technology are geometrical flexibility and high accuracy. Irrespective of material hardness, this technology can be applied.
All our experience in RM machines in the past is integrated in this unique machine. This machine is based on a granite portal as well and is to a large extent comparable with the other RM machines. Servodrives and glass scales provide continuous closed loop feedback operation and correction.

Standard equipment

- RGV 420
- Direct measuring system
- Maintenance free fiber laser (40 W)
- F-Theta objective f = 80 mm, telecentric (Standard)
- Integrated camera system for the automatic detection of the position and for measuring and adjusting of the work piece
- Andronic controller system
- Data backup package
- LDriver 6







Technical data

Machine type	RM 500S Laser
Working range X x Z [mm]	500 x 170
Feed rate (X/Z) max [m/min] / (A) [min-1]	10 / 20
Cylinder diameter [mm] / Journal diameter [mm]	20 - 200 / max. 100
Body length [mm]	max. 450
Max. load capacity [kg]	350
Dimensions L x W x H [mm]	3.150 x 2.710 x 2.675
Weight of machine [kg]	4.500
Controller	andronic 2060
Output software	LDriver
Standard laser unit	
Laser medium	Fiber laser
Wavelength [nm]	1064
Power in ground mode (TEM00) [W]	40
Cooling system	Air-cooled
Pulse rate [kHz]	20 - 500
Optische Z-Achse [mm]	+/- 2,5 (traverse path with 80mm-objective)
F-Theta objective [mm]	f=80, telecentric
Scan field [mm] / in Clipping mode [mm]	max. 45x45/35x35 (A-axis, depends on work piece diameter)
Smallest spot size [µm]	ca. 42
Working distance [mm]	79 (objective bottom edge - work piece)