

The LHF Gear offers even greater flexibility in respect of measuring range ergonomically. The ground-level design of the LHF enables maximum freedom of movement. The dynamics are provided by a double drive in the Y-axis, and the guides are characterized by unique stability and precision.

Air-bearing guide elements guarantee wear-free operation. Like the LH Gear model range, the LHF Gear is also equipped with a rotary table, allowing measurement of workpieces up to a diameter of 3,5 m. The LHF Gear also measures the relevant gear box housings at the same time.



Technical Data

LHF 3020 Gear

Workpiece diameter	min./max.	5 – 3000 (3500)	mm
Modul range	min./max.	1 – 32	mm
Measurable face width		2000	mm
Helix angle		90	°
Axes		4	number
Measurement accuracy		gear inspection acc. to VDI/VDE 2612/2613, group I	
Measuring uncertainty acc. to DIN EN ISO 10360 for 3-D Measuring tasks		MPE _z = 5,0 + L/300 MPE _{xy} = 5,0 MPE _{xyw} = 5,6	µm
Temperature range		20°C + 5K 20°C – 3K 1 K/h 1 K/m ± 2K without recalibration	
Traverse distances	X-axis Y-axis Z-axis	3000 4000 (5000, 6000 bis 10000) 2000	mm mm mm
Rotary table loading		8000 (12000, 20000)	daN
Compressed air supply	min.	6	bar
Air consumption	approx.	200	l/min
Operating voltage		400 V, 50/60 Hz, 3 Ph	
Power consumption		2600	VA
Machine weight	approx.	17.000 (19.000, 21.000)	kg
Dimensions	approx.	6650 (7650, 8650)/4900/5500	mm

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