

TECHNICAL DATASHEET

CNC – Gear Shaping Machine

Manufacturer	LIEBHERR
Type	LFS 380
Control	SIEMENS Sinumerik 840D
Built	2008



Working Area

Max. gear diameter	Ø 380 mm	Outside + Inside
Max. workpiece diameter	400 / 600 (800) mm	Outside / Inside (limited)
Max. gear width	200 mm	
Center distance between gear head and table center min./max.	-50 / 450 mm	
Travel range of the lifting position	250 mm	(Z-Axis)
Max. module for straight gearing	6 mm	
Max. axial travel	250 mm	

Working Table

Table diameter	Ø 400	mm	
Centering hole	Ø 200	mm	H7
Table hole	Ø 150	mm	H7
Max. table speed	30	1/min	
Number of T-slots	6	piece	14H12
Table equipped with hydraulic clamping device			
Multi-interface for pallet loading and zero-point clamping system in the working area			

Shaping Head and Lift-off Cam

Drive power of face milling head	37	kW	
Max. stroke rate	600	DH/min	
Face milling head axis angle adjustment	+/- 0,5	°	
Spindle taper	HSK-B100		DIN 69893
Cutting wheel holder mounting	60	mm	
Face milling spindle diameter	Ø 110	mm	
Stroke length, automatically adjustable	0 - 215	mm	
Adjustment speed	600	mm/min	
Duo cams for external and internal gear cutting			Manual switch to change
Accelerated retraction			

Connection Data

Operating voltage	400	V
Operating frequency	50	Hz
Control voltage	24	V

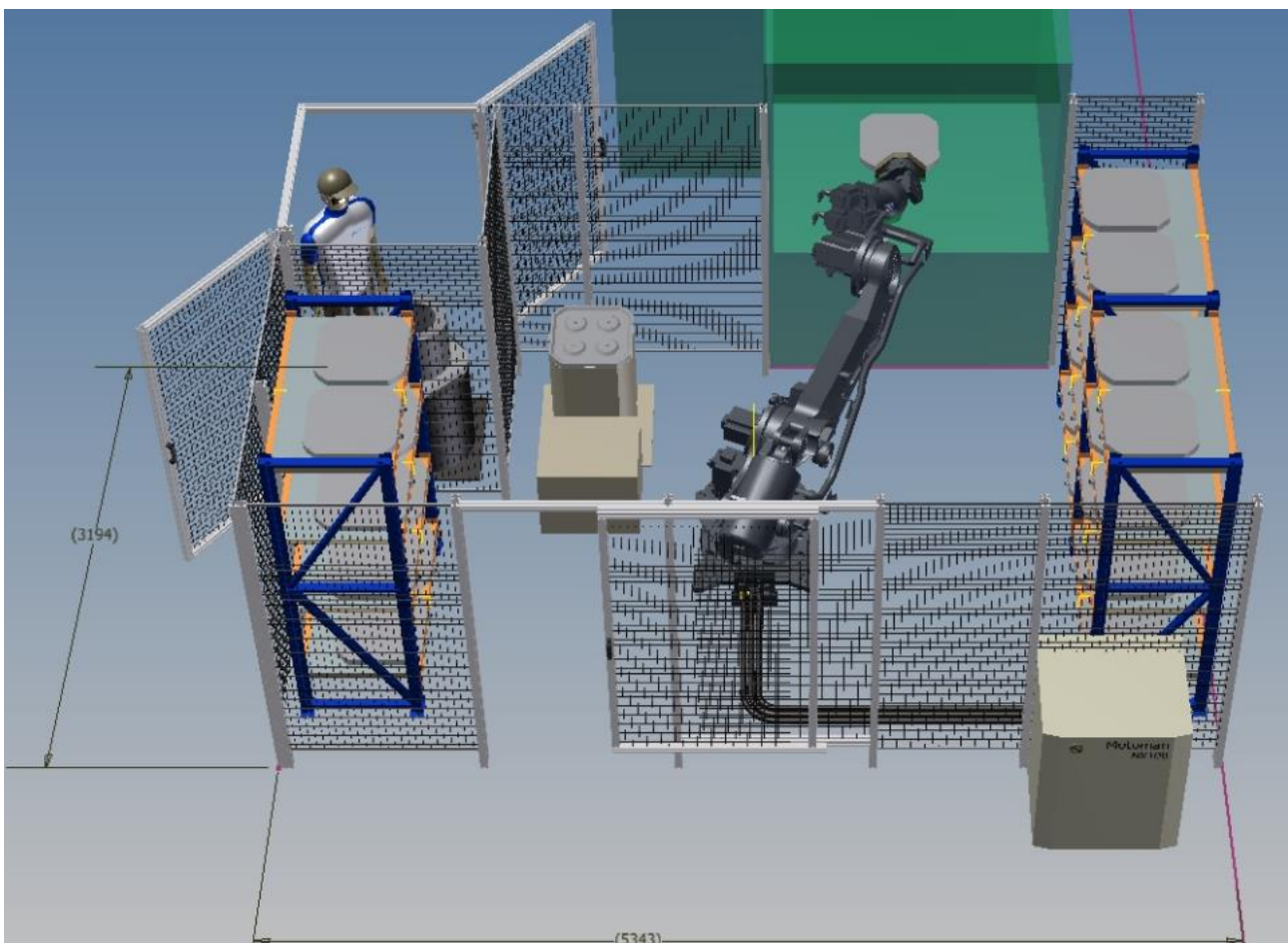
Machine Dimensions

Space requirement	ca. 4,5 x 2,8 x 3,2	m	Machine only
Weight	ca. 16.000	kgs	

Robot Cell

Complete loading cell for automatic loading of the LFS380 shaping machine consisting of:

- 2 pallet racks with a total of 24 storage locations for storing workpiece pallets
- Centering station for setting up the pallets
- Interface for automated loading using a robot cell
- Programmable loading robot YASKAWA for automated pallet handling
- Robot control and teaching unit
- Parts washing machine with automatic loading and unloading
- Without safety fences



Equipment and Accessories

- LIEBHERR LFS380 basic machine with SINUMERIK 840D control system
- Very well equipped gear shaping machine with large working range (up to Ø 800mm)
- Hydraulic unit with approx. 70 bar operating pressure
- Lubrication and hydrostatic unit with approx. 100l filling capacity
- Magnetic chip conveyor
- Complete loading cell for automatic loading of the LFS380 shaping machine
- Incl. pallets
- Operating hours approx. 22,500h

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