

TECHNICAL DATA
CNC-Gear Shaping Machine

Manufacturer	LORENZ
Type	LS 82
Control	SIEMENS 840 C
Built	1999



technical data

max. external work-piece diameter	80 mm	
max. nominal modul shapable	5 mm	
max. gearing width (straight gear)	44 mm	
Adjustment of axis angle	-0,5 bis +0,5 °	
Shaping spindle – workpiece table stroke range	250 – 1.500 DS/min	
centre distance table/shaping spindle	-15 bis +170 mm	
max. stroke length	55 mm	adjustable manually
max. helix angle	45 °	
max. tool diameter	Ø 180 mm	

feed range

feed rotation axis of tool (relating to 100 mm work piece-Ø)	10 to 9.420	mm/min
feed rotation axis of work piece (relating to 100 mm work piece-Ø)	10 to 15.700	mm/min
feed center axis of machine column	1 to 3.750	mm/min

dimensions, weight

required space ca.	4,2 x 2,6 x 2,6	m
machine weight ca.	8.500	kg

electrical supply

total power consumption	23	kVA
operating voltage	400	V
operating frequency	50	Hz
control voltage	24	V DC

equipment

- stroke positioning adjustment controlled by CNC
- stroke length adjustment mechanical-manually
- machine is fixed to the ground with specific damping shoes (part of the delivery scope)
- oil mist exhaust system
- tailstock
- shaping spindle and lift of shaping head equipped with hydrostatic bearing