Technical Data

Working range mm 145 165 200 20	0	
Center height mm 145 165 200 20	0	
Swing over bed mm 290 330 400 40	0	
Swing over cross slide mm 150 190 225 22	5	
Turning diameter over carriage guidew.mm26030039039	0	
Distance between centers acc. to DIN 806 mm 500 670 1000 100	0	
Width of bed mm 220 220 260 26	D	
Height of bed mm 220 220 260 26	D	
Turning center above workshop floormm113011651150115	0	
Work spindle		
Spindle head DIN 55027 size 5 6 6		
Spindle bore mm 43 43 62 62		
Inside diameter of collet (draw-in c. syst.) mm 26 26 26 26 26	;	
Inside diameter of collet (push-out c. syst.) mm 42 42 60 60)	
Inner taper similar to DIN 228 mm ME 50 ME 50 ME 70 ME	70	
Standard/Maximum diameter of chuck mm 140/160 160/200 200 200/	250	
Max. face plate and clamping mm 250 280 355 35	5	
plate diameter, stepless 250 250 555 55 Tool slide		
	n	
	-	
	-180	
Tool system size A A / B B B Ubjekt affaard sharel mm 10 20 21 21		
Height of tool shank mm 16 20 25 25)	
Lead screw spindle pitch mm 6 6 6		
Tailstock with hand-wheel	2	
Stroke of quill mm 82 82 110 11		
Diameter of quill mm 45 45 60 60		
Taper socket according to DIN 228 MT 3 MT 3 MK 4 MT	4	
Drive (infinitely variable AC-drive)		
Gear steps 1 1 2		
V speed range, infinitely variable rpm 20–5000 20 4500/5000 20 4000 120		
W speed range, infinitely var. (optional) rpm 30–5000 30–4500/5000 30 – 4000 120–3 Drive area in (100 % 5D at 50 k (071 k)) LW 5.5 7 10.5 10.5		
Drive capacity (100 % ED at 50Hz / 87Hz) kW 5,5 7 10,5 10,	5	
Stepless feed range	1.0	
Longitudinal feeds mm/rev 0,01-1,0		
Cross feeds mm/rev 0,004–3,6 0,004–3,6 0,005–0,5 0,005		
Thread pitches: metric, inch, modular, DP mm 0,10–52 0,10–52 0,10–80 0,10-	-80	
Space requirements and weight		
Length x width x height (incl. screen) approx. mm 1450x1035x1800 1600x1035x1800 2100x1150x1800 2100x115	0x1800	
Weight as per version approx. kg 1050 1200 1800 1800	0	
Standard painting		
varnish RAL 7035/ grey/ telegrey 2 RAL 7046	RAL 7035/ grey/ telegrey 2 RAL 7046	





The acceptance inspection of the lathe is performed in accordance with DIN 8605. Our values clearly fall below the authorized values – another proof of our high quality standard.

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Precision Centre Lathes

2019-250/500

www.gdw-drehen.de



figure with special equipment



Product line

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comfortline

LZ 250 VS LZ 280 VS LZ 400 VS1 LZ 400 VS2



comfortline Details and Features

Machine base and tool slide

- Induction-hardened machine bed made from grey-cast iron
- Ventilated control cubicle, easily accessible from the rear of the lathe
- Hardened and ground cross slide and top slide spindle feed screw, re-adjustable via divided feed screw nut
- Re-adjustable cross slide and top slide guideways via V-ledge

Work spindle and feed drive

- Short braking and start-up times until maximum spindle speed due to integrated braking module
- Constant speed of up to 5000 rpm independent of load
- Drive over exterior belts to main spindle
- Steplessly variable feed drive due to a maintenance free distributor drive
- Three-phase induction motor with braking module and speed
- controlled frequency converter with actual value feedback
- Graphic support for feed and thread entries

comfortline

The comfortable line

Intuitive operation, precise results



Safety and ergonomics

- Lockable main switch
- EMERGENCY-OFF mushroom-type push button
- Electrically-monitored protective chuck cover made from steel-sheet
- Position display, longitudinally displaceable
- Sliding protective cover equipped with safety glazing and tool tray can be displaced over the whole working area
- Independent disengaging of the corresponding handwheel for automatic longitudinal and cross feed and engaging of the split nut for the thread
- Integrated power management
- Two-channel safety technology









- Position display features & details
- 9" color screen
- Intuitive, self-explanatory user interface with simple templates for feed and thread entries
- Technology memory for 99 tools
- Oriented spindle stop by means of Teach-In
- C-axis for main spindle
- Optional entry of constant spindle speed or cutting velocity
- Error and status display of the lathe in plain text
- Entry of feed and thread pitches into a mask displayed on screen
- Programmable zero offset and overspeed control
- Thread cutting with electronic trip stop, automatic display of thread depth and change-over from external to internal threads



Individual software solutions for the comfortline user interface Intuitive taper turning with finishing allowance and automatic feed shutdown Headstock with back gear control for high torques (only at LZ 400 VS2) Single-lever control with safety locking

Machine base with detachable chip pan and lockable tool cabinet for accessories



High-precision spindle bearing arrangement with 3 preloaded angular ball bearings for high load with additional belt tension relief