

# Technical Data

		LZ 250 SN	LZ 280 S	LZ 400 S
<b>Working range</b>				
Center height	mm	145	165	200
Swing over bed	mm	290	330	400
Swing over cross slide	mm	150	190	225
Turning diameter over carriage guidew.	mm	260	300	390
Distance between centers acc. to DIN 806	mm	500	670	1000
Width of bed	mm	220	220	260
Height of bed	mm	220	220	260
Turning center over workshop floor	mm	1130	1165	1150
<b>Work spindle</b>				
Spindle head DIN 55027	size	5	5	6
Spindle bore	mm	43	43	62
Inside diameter of collet (draw-in c. s.)	mm	26	26	26
Inside diameter of collet (push-out c. s.)	mm	42	42	60
Inner taper similar to DIN 228		ME 50	ME 50	ME 70
Standard/maximum diameter of chuck	mm	140/160	160/200	200/250
Max. face plate and clamping plate diameter	mm	250	260	355
<b>Tool slide</b>				
Cross slide travel	mm	165	165	210
Top slide travel	mm	115	115	115
Swiveling range of top slide	degree	+75/-60	+75/-60	+180/-180
Tool system	size	A	A/B	B
Height of tool shank	mm	12/16	16	25
Lead screw spindle pitch	mm	6	6	6
<b>Tailstock with hand-wheel</b>				
Stroke of quill	mm	85	85	110
Diameter of quill	mm	45	45	60
Taper socket according to DIN 228		MT 3	MT 3	MT 4
<b>Drive (infinitely variable AC-drive)</b>				
Gear steps		1	1	2
V speed range, infinitely variable	rpm			30-750
W speed range, infinitely variable (optional)	rpm	30-4000	30-4000 30-5000 (option)	150-3000
Drive capacity (100 % ED at 50Hz / 87Hz)	kW	5,0/7,5	5,5/9,5	7,5/12,5
<b>Stepless feed range</b>				
Longitudinal feeds	mm/rev	0,025-0,9	0,025-0,9	0,025-2,0
Cross feeds	mm/rev	0,0009-0,32	0,0009-0,32	0,012-1,0
Thread pitches: metric, inch, modular, DP	mm	0,2-14	0,2-14	0,2-14
Modular thread pitches	Module	0,1-3,5	0,1-3,5	0,1-7,0
Withworth thread pitches	thread/inch	80-0,5	80-0,5	80-1,5
Diametral thread pitches	DP	200-6	200-6	200-3,5
<b>Space requirements and weight</b>				
Length x width x height (incl. screen)	mm	1450x1035x1800	1600x1035x1800	2100x1150x1800
Weight as per version	kg	950	1100	1800
<b>Standard painting</b>				
Varnish		RAL 7035 light 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.

[www.gdw-drehen.de](http://www.gdw-drehen.de)



Wide range of optional accessories, e.g.



Lever-operated quick acting-collet attachment



Boring quill with lever for tailstock



Hand-operated collet chuck



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2019-250/500



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## Precision Centre Lathes

Product line

classicline

LZ 250 SN  
LZ 280 S  
LZ 400 S



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## classicline 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 lead screw, re-adjustable via divided lead 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 up to maxi speed independent of load
- Drive via exterior belts to main spindle
- Coarse feed and thread control with mechanical safety locking
- Three-phase induction motor with braking module and speed controlled frequency converter with actual value feedback
- 24 or 48 step feed gear mechanism to set feeds and thread pitches

### 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 that 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



Safety and quality with seal of approval.



### classicline features & details of position display

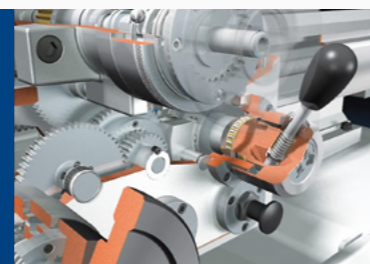
- 9" color screen
- Intuitive, self-explanatory user interface with simple entry templates
- Technology memory for 99 tools
- Oriented spindle stop by means of Teach-In
- Optional entry of constant spindle speed or cutting velocity
- Error and status display of the lathe in plain text
- Feed and thread settings are viewed
- Programmable zero offset and overspeed control
- Thread cutting with electronic trip stop
- Diagnostic system integrated into screen display
- Prompting of maintenance, repair and service intervals



## classicline

### The classic line

#### Comfortable operation, precise results



Individual software solutions for modular component animation



Headstock with back gear control for high torques



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 highload with additional belt tension relief