

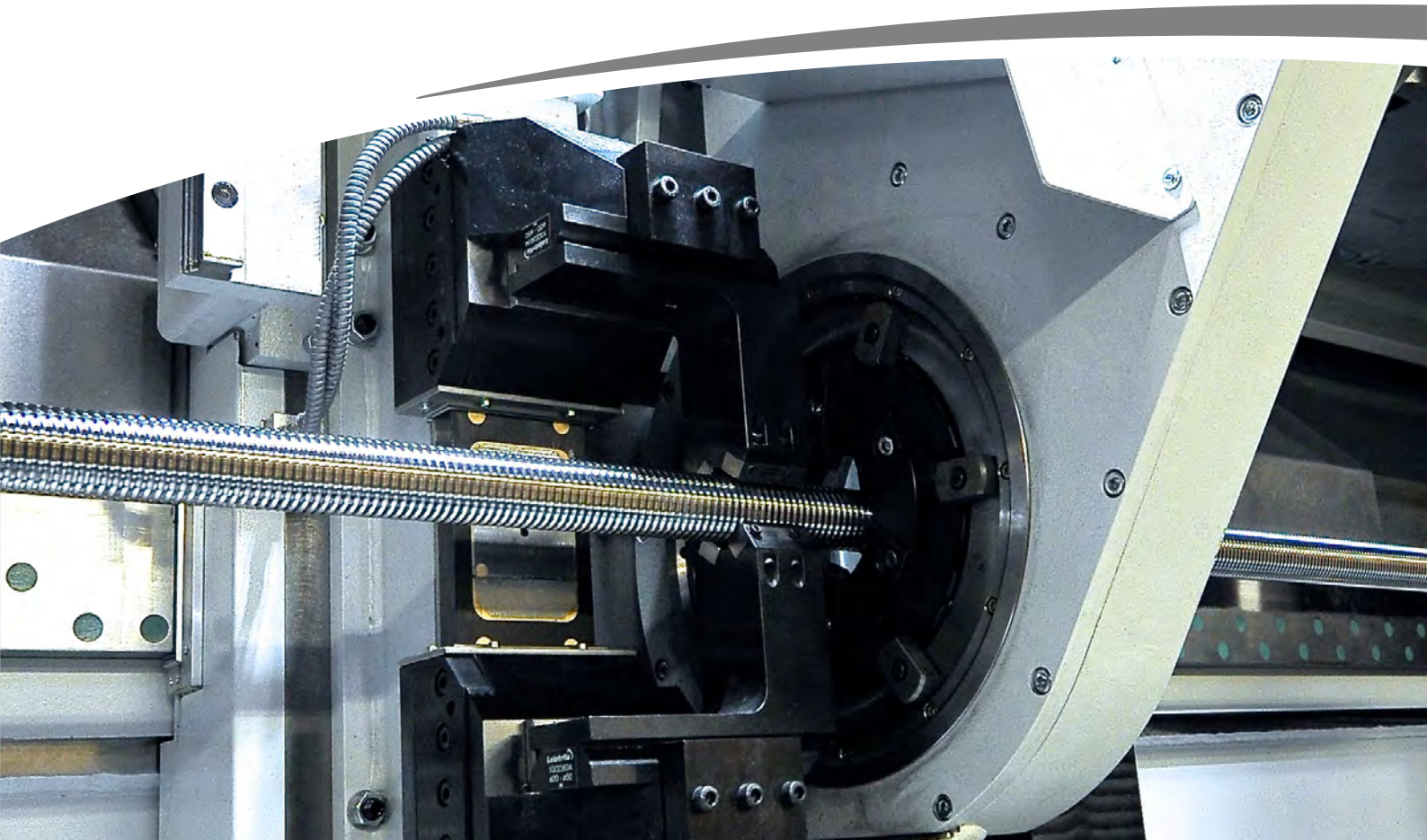
LWN 160 HP

Precise manufacturing of planetary roller screws

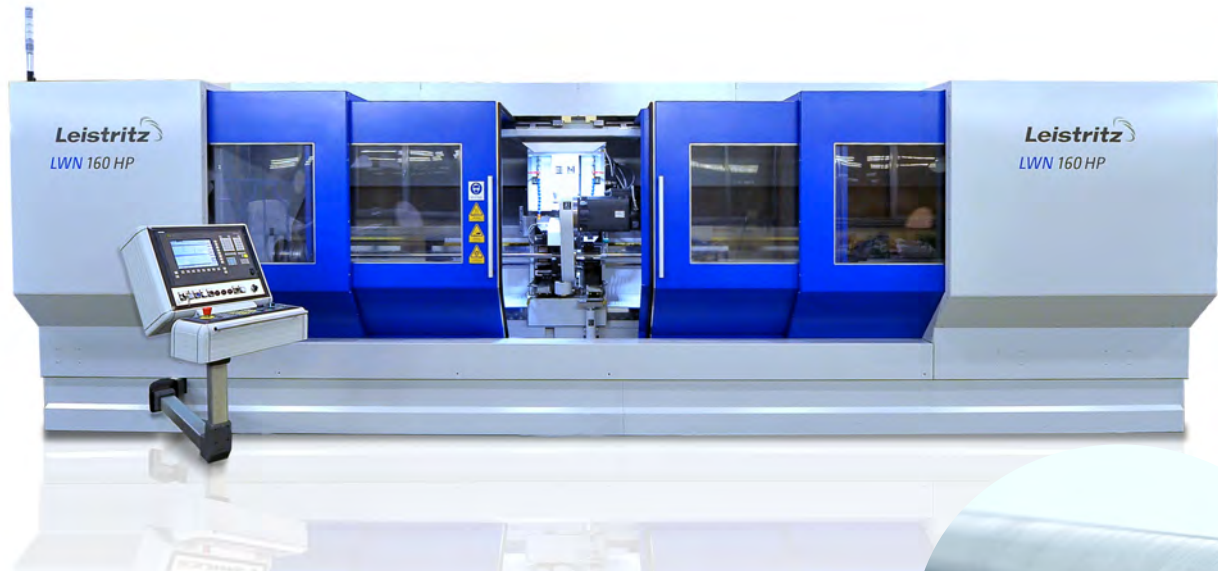
The new LWN 160 HP (High Precision) hard whirling machine is ideal for producing lead screws. It is suitable for external machining up to 6,000 mm in length and increases productivity by a factor of 3 compared to modern grinding machines, without compromising machining quality. Very convincing is the fact that the pitch accuracy of five-start threads is only 1 μm , the dimensional accuracy in the cylindricity of the thread diameter is better than 3 μm , and the roughness depth Ra achieved in the hard whirling process is less than 0.2 μm .

Economical and precise:

- No cooling lubricant costs thanks to dry machining
- Optimized whirling process (90% of the heat is dissipated directly with the comma chips)
- Cost-effective chip removal through emulsion-free machining
- Short whirling times (up to 50% shorter vs. conventional machining)
- Finish machining with high surface quality
- Low tool costs and shorter cycle times
- Whirling of hardened and unhardened materials up to 62 HRC



LWN 160 HP **WHIRLING MACHINE**



TECHNICAL DATA LWN 160 HP

Headstock (c-axis)	
Main spindle outlet (restricted by the respective feed type)	Ø 102 mm
Spindle head size (for chucks according to DIN 55026)	8
Resolution of the c-axis	± 0,01°
Centering clamping prism lunettes	
Stroke	max. 80 mm
Clamping range	Ø 10 - 100 mm
Clamping force	800 - 8,500 N
Longitudinal slide (z-axis)	
Positioning accuracy	< 0,002 mm
Cross slide (x-axis)	
Positioning accuracy	< 0,002 mm
External whirling unit	
Hollow shaft passage (without tool)	Ø 196 mm
Speed range	570 - 3,800 1/min
Drive type	Spindle motor
Power	7,5 / 12 kW
Helix angle adjustment (a-axis)	+32° / -2°
Positioning accuracy	± 0,07°
Workpiece	Ø 10 - 100 mm
Machining length	max. 6,000 mm

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