

WENZEL

LIEBHERR/Wenzel Business Partner

State-of-the-art Gear Metrology



TOP CLASS GEAR METROLOGY

The Wenzel Group has been manufacturing metrology (measuring) equipment for over 45 years and supplies gear testing systems to some of the world's most prestigious gear manufacturers. The Wenzel GearTec product line includes a complete range of granite, air-bearing gear testing machines. The LH series of machines also offers 4-axis gear measuring technology on any Wenzel CMM (coordinate measuring machine) frame to give customers gear and traditional CMM measurement on the same platform.

Wenzel's flexible, state-of-the-art gear measuring machines and Koepfer America's personal service provide you with an industry-leading gear metrology solution.



WGT 280



WENZEL SOFTWARE

Wenzel gear measuring machines are equipped with extensive modular software, featuring:

- Intuitive, graphical data input
- Macro programming for easy measuring procedures
- Integrated database for storing part and measurement information
- Modules for the measuring of spur gears, bevel gears, gear cutting tools, cylindrical worms and worm gears, shafts, splines, camshafts, and rotors
- Evaluation to DIN 3960/62, AGMA 2015, and other standards

WGT AND LH GEAR SERIES

The Wenzel WGT series of measuring machines provides a state-of-the-art, compact gear measuring solution in variety of sizes. These machines feature a controller designed specifically for the requirements of a 4-axis gear measuring system.

The Wenzel LH Gear series of measuring machines offers the flexible combination of gear inspection with traditional CMM measurement. These machines come equipped with an integrated rotary table and a controller to measure rotationally symmetrical parts as well as prismatic parts. This series features a range of size and weight capacities to provide an optimal measuring solution.

All Wenzel machines use granite construction on all axes to guarantee excellent thermal behavior for precise measuring.

All Wenzel WGT and LH Gear models provide:

- Robust construction and excellent wear resistance
- State-of-the-art drives, bearing, and guidance technology
- High-resolution scales for exact positioning and precise measuring
- Rotary table with air or hydrostatic bearing
- Ergonomic and modular design for future-proof use



WGT 400



WGT 600



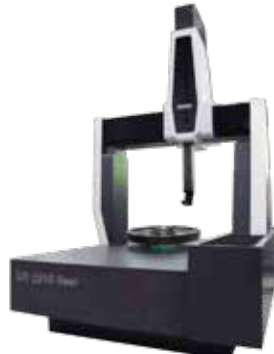
WGT 850



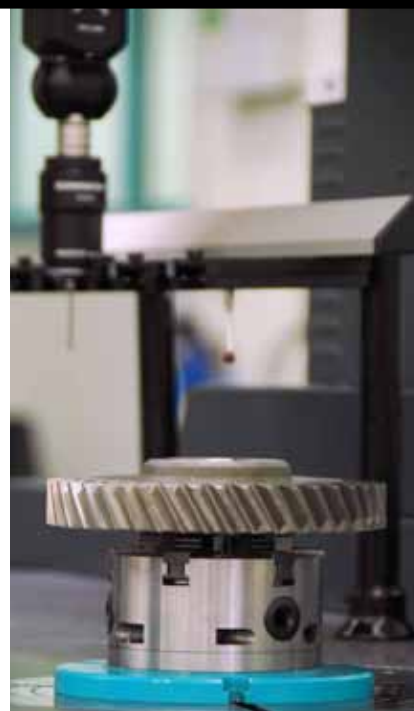
WGT 1200



LH 65 Gear



LH 1210 Gear



WGT SERIES TECHNICAL SPECIFICATIONS

	WGT 280		WGT 400		WGT 600		WGT 850		WGT 1200	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Workpiece diameter minimum maximum with tailstock maximum without tailstock	5 280	0.197 11.024	5 400	0.197 15.748	5 600	0.197 23.622	5 850 1000	0.197 33.465 39.370	5 1200 1600	0.197 47.244 62.992
Measurable face width optional	500	19.685	500 650	19.685 25.591	650 800	25.591 31.496	800	31.496	1000	39.370
Travel range X Y Z	340 200 500	13.386 7.874 19.685	400 220 500	15.748 8.661 19.685	500 320 650	19.685 12.598 25.591	950 500 850	37.402 19.685 33.465	1200 650 1000	47.244 25.591 39.370
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Rotary table weight capacity	50.98	114.6	183.5	412.6	407.8	916.9	1019	2292	3059	6877

Minimum workpiece module / diametral pitch of all WGT machines is 0.5 m (51 DP), 0.3 m (85 DP) with special stylii.

LH SERIES TECHNICAL SPECIFICATIONS

	LH 65 Gear		LH 87 Gear		LH 108 Gear		LH 1210 Gear		LH 1512 Gear	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Travel range X Y optional optional optional Z	650 750 1200 500	25.591 7.874 47.244 19.685	800 1000 1500 2000 700	31.496 39.370 59.055 78.741 27.559	1000 1200 1600 2000 3000 800	39.370 47.244 62.992 78.741 118.110 31.496	1200 2000 2500 3000 1000	47.244 78.741 98.425 118.110 39.370	1500 2000 2500 3000 1200	59.055 78.741 98.425 118.110 47.244
Maximum workpiece diameter	600	23.622	800	31.496	1000	39.370	1200	47.244	1500	59.055
Module range	0.5 – 20	1.27 – 50.8	0.5 – 20	1.27 – 50.8	0.5 – 25	1.02 – 50.8	0.5 – 25	1.02 – 50.8	0.5 – 32	0.79 – 50.8
Measurable face width optional	400	15.748	500	19.685	600	23.622	800	31.496	850 1000	33.465 39.370
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Rotary table weight capacity	183.5	412.6	407.8	916.9	407.8	916.9	1019	2292	1019	2292

All LH Gear series machines offer a variety of rotary table options.

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QUALITY SINCE 1867

Koepfer America provides machines, tools, and support for the North American gear manufacturing industry.

We see ourselves not only as a supplier of gear industry machines and tools, but as your partner, helping you with the technically complex and demanding business of gear manufacturing.

As our customer, you gain from the experience of the Koepfer staff, which has generations of gear manufacturing knowledge.