

# Gleason



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<http://gleason.nt-rt.ru/> || [gnd@nt-rt.ru](mailto:gnd@nt-rt.ru)



## CNC Cutting Machines

	Maximum workpiece diameter mm	Face width mm	Maximum module mm
<b>PHOENIX® 280CX&amp;C<sup>■</sup></b>	280**	55	10
<b>PHOENIX® II 600HC<sup>■</sup></b>	600**	110	15
<b>PHOENIX® 1000HC</b>	1000	115*	17

\* applies for face milling  
<sup>■</sup> with Coniflex® cutting capabilities

\*\* Maximum workpiece diameter is not valid for the Coniflex® option.



## Gleason-Heller 5-axis Machining Centers with uP-Gear Technology for Large Bevel Gears

	Maximum workpiece diameter mm	Maximum pinion shaft length mm	Maximum table load capacity kg
<b>FT/CT 4000</b>	1020	1090	1400
<b>FT/CT 8000</b>	1810	1500	2000/3000*
<b>FT 16000</b>	2500	1500	8000

\* with reduced dynamic parameters



## CNC Grinding Machines

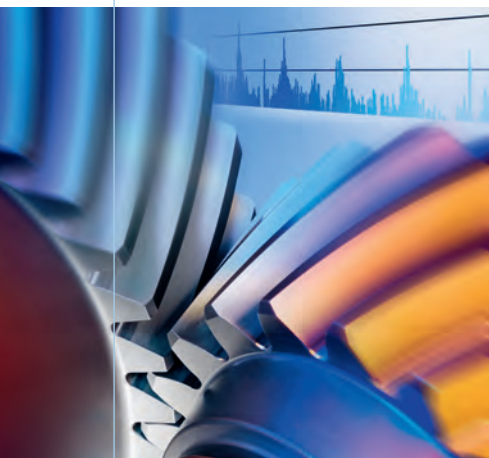
	Maximum workpiece diameter mm	Maximum wheel diameter mm	Maximum module mm
<b>PHOENIX® II 275G<sup>■</sup></b>	275**	228	10
<b>PHOENIX® 280G<sup>■</sup></b>	280**	228	10
<b>PHOENIX® II 600G<sup>■</sup></b>	600**	508	15
<b>PHOENIX® 800G</b>	762	600	17

<sup>■</sup> with Coniflex® grinding capabilities

\*\* Maximum workpiece diameter is not valid for the Coniflex® option.

## Curvic® Coupling Grinding Machines

	Maximum workpiece diameter mm	Wheel diameter range mm	Maximum grinding wheel speed rpm
<b>887</b>	914	164 to 546	3000
<b>888</b>	610	115 to 530	3000



## Soft and Hard Testing Machines

	Maximum workpiece diameter mm	Shaft angle	Offset range mm
<b>360T</b>	360/450 <sup>●</sup>	65° - 185°	± 152
<b>600HTT</b>	600	90°	± 76
<b>1000T</b>	1050	45° - 180°	± 115
<b>1600T</b>	1600	30° - 135°	± 175
<b>2000T</b>	2000	30° - 135°	± 210
<b>2500T</b>	2500	30° - 135°	± 275

● Option

## Lapping Machine

	Maximum workpiece diameter mm	Shaft angle	Offset range mm
<b>600HTL</b>	600	90°	76.2



## Cutter Sharpening\* and Blade Grinding Machines

	Maximum cutter diameter	Maximum tilt	Index range
<b>NCG 125</b>	1.1" - 12"	+ 40°	1 - 99
<b>NCG 205</b>	2" - 25"	+ 40°	1 - 99

\* CBN grinding wheel

	Stick blades for cutter diameter	Grinding wheel drive kW	Grinding wheel speed rpm
<b>BPG</b>	38 - 457 mm 1.5" - 18"	20	10,000



## Blade Truing and Inspection Machines

	Application	Capacity
<b>CB</b>	RSR®, TRI-AC®, PENTAC® (SUPERI-AC®), PENTAC® Plus, PENTAC® Aero, CYCLOCUT cutter inspection	Face Milling 1.5" - 18" (diameter), Face Hobbing 16.5 - 210 mm (radius)
<b>CBX</b>	RSR®, TRI-AC®, PENTAC® (SUPERI-AC®), PENTAC® Plus, PENTAC® Aero	Stick blade width up to 35 mm



## PCM Quenching Machines

	Maximum workpiece diameter mm	Pressure kg	Oil capacity (l)
<b>529PCM</b>	267/394 <sup>□</sup>	22,453	1041
<b>537PCM</b>	686	26,762	1343

<sup>□</sup> manual loading



## Analytical Gear Testers

	Maximum OD mm	Modul range mm	Center distance* mm	Z-axis travel* mm
<b>175GMM</b>	175	0.4 - 6.35	380	305
<b>300GMS</b>	300	0.2 - 12	450	400
<b>350GMS</b>	350	0.4 - 18	650	450
<b>475GMS</b>	475	0.4 - 18	650	450
<b>650GMS</b>	650	0.4 - 22	1000	600
<b>1000GMS</b>	1000	0.4 - 22	1300	1000
<b>1500GMS</b>	1500	0.5 - 32	1300	1000
<b>2000GMS</b>	2000	0.5 - 32	2000	1200
<b>3000GMS</b>	3000	0.8 - 32	2000	1200

\* other dimensions on request



**For requirements beyond specified values consult Application Engineering. The information and specifications in this publication are subject to change without notice.**

## Cutting Tools



Gleason has over one hundred years of experience in the design and manufacture of cutting tools for both spiral bevel and straight bevel gear applications.

Pentac® Plus  
 Pentac® Aero  
 Pentac®  
 Triac®  
 RSR®  
 Hardac® III  
 Revacycle®  
 Coniflex®  
 Coniflex Plus®  
 Cyclocut

Gleason also offers blade resharpening services in several locations around the world. Both coated and uncoated cutter blades and tools are available. Cutter head reconditioning services are also provided.

Gleason has cutter and tool manufacturing facilities in the United States, Europe, China, and India.

## Workholding Solutions



Gleason designs and manufactures a complete line of workholding equipment for bevel gear cutting and grinding applications. Designs are both mechanical and hydraulic and include quick change features for both Gleason and non-Gleason spindles.

Tapered and/or ball sleeve designs ensure repeatability of both axial and radial runout. Mechanical safety features are also designed into the equipment to prevent over-travel.

Gleason-developed workholding equipment includes TANLINE® and VERS-GRIP® pinion chucks, X-PANDISK® and UNI-SPAND® gear arbors, and specially designed pitchline chucks for non-Gleason applications.

In addition to design and manufacture of workholding equipment Gleason also offers application engineering services, development programs, hands-on seminars, gage certification, and repair programs.

## Software Products

- ✓ CAGE™ Computer Aided Gear Engineering.
- ✓ G-AGE™ Gleason Automated Gear Evaluation.
- ✓ Summary Manager (Cutting, Grinding, Mechanical Conversions, BPG).
- ✓ UMC™ (Ultimate Motion Concept).
- ✓ FEA (Finite Element Analysis).
- ✓ GABE™ Gleason Automated Blade Evaluation.
- ✓ Straight Bevel & Curvic® Coupling Summary Generators.

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