

### TECHNICAL DATASHEET

#### CNC- Bevel Gear Grinding Machine

Manufacturer	<b>GLEASON</b>
Type	<b>Phoenix II 800HG</b>
Control	<b>FANUC</b>
Built	<b>1998</b>



With the **GLEASON Phoenix® 800HG** bevel gear grinding machine, manufacturers of spiral, hypoid, and other bevel gears for large components can significantly increase their productivity. The machine enables faster grinding processes while maintaining the highest accuracy and excellent repeatability.

Its extremely robust machine design forms the basis for stable machining processes, even for large workpiece diameters of up to 762 mm. Combined with a powerful FANUC CNC control system, the 800HG offers maximum flexibility for a wide range of gear geometries—from spiral and hypoid bevel gears to special forms.

Thanks to its well-thought-out machine concept, the Phoenix® 800HG allows for reduced setup times, supporting cost-efficient production even with varying batch sizes. High process reliability ensures consistently high component quality and minimizes scrap.

Optimized accessibility to the work area, along with the ergonomic arrangement of key components, simplifies all setup and changeover operations for the operator. This reduces non-productive time and sustainably increases efficiency in daily operations.

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### Working range

Gear outside diameter, max.	Ø 762	mm
Full depth, max.	31,75	mm
Max. Face width	116,84	mm
Number of teeth	5 - 200	
Grinding wheel diameter, max.	Ø 20,5	"

### Machine specifications

X-axis (horizontal work slide)	-305 / +305	mm
Y-axis (vertical slide)	-305 / +305	mm
Z-axis (grinding spindle infeed)	+50 / +765	mm
B-axis (swivel axis)	- 5 / 90	°
Machine center to workpiece spindle face	229	mm fixed

### Dimensions and weight

Footprint machine L x B x H approx..	5,5 x 5,3 x 3,4	m
Machine weight approx.	27.000	kg

### Connection data

Total connected load approx.	145	kVA
Back-up fuse	200	A
Operating voltage	400	V
Operating frequency	50	Hz
Control voltage	24	V DC

### Equipment and accessories

- Base machine GLEASON PHOENIX 800HG with FANUC control
- Gleason HMI – user interface for easy input of gear data and correction values
- Fully CNC-controlled machine concept designed for minimal setup and changeover times, as well as maximum gear accuracy and grinding performance
- Waguri eccentric grinding spindle
- All axes and spindle equipped with FANUC digital drive technology
- Central lubrication system
- Electronic centering device for precise rotational positioning of the workpiece
- Coolant system, make HOFFMANN, oil tank approx. 3,000 l
- Prepared for oil mist extraction
- Full enclosure of the working area
- Hydraulic unit
- Machine light
- Documentation

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# FLECKENSTEIN

## Werkzeugmaschinen

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