

TECHNICAL DATASHEET

Bevel Gear Generator

Make	GLEASON
Type	No. 641 „G-Plete“ Generator
Control	Cycle controlled



The GLEASON 641 G-PLETE bevel gear generating machine is a proven and robust solution for the production of spiral bevel gears, hypoid gears, and Zerol bevel gears using the well-established Gleason generating method.

Designed for reliable and repeatable machining processes, this machine is ideally suited for small to medium batch production in industrial gear manufacturing.

The 641 supports both roughing and finishing operations in a single setup (completing process), ensuring consistent gear quality while reducing handling time.

Its mechanical generating system with variable roll ratio and plunge feed mechanism allows precise control of the tooth geometry, making it a dependable choice for manufacturers requiring stable and accurate results.

Thanks to its robust machine design and durable components, the GLEASON 641 offers long service life and reliable performance even under demanding production conditions. The machine remains a cost-effective solution for companies looking for high-quality bevel gear manufacturing with proven Gleason technology.

Working Area

Max. gear diameter	Ø 16	“
Max. full depth	1	“
Max. face width	2.6	“
Coarsest diametral pitch	2	DP
Max. Cutter diameter	Ø 12	“
Root angle range	-8 / + 90	°

Machine specifications

Max. radial setting	6.983	“	177.4 mm
Max. offset above/below centre	+/- 57	mm	
Workhead cone	32	“	
Depth of workhead cone	6	“	
Max. distance machine center to spindle nose	14.5	“	368.3 mm
Cutter speed	15 - 250	rpm	
Max. speed cutterhead motor	1.800	rpm	
Max. speed workhead motor	1.200	rpm	

Dimensions and weight

Machine footprint approx.	3,3 x 2,5	m
Machine height approx.	2.40	M
Machine weight approx.	12.500	kgs

Connection data

Operating frequency	50 / 60	Hz
Supply voltage	380	V
Total power supply	21	kW
Full load current	49	A

Equipment and Accessories

- GLEASON 641 G-Plate Generator
- Hydraulic clamping system
- Mechanical change gears (roll, index, feed)
- Plunge-cut and format cycles possible
- Single and double roll processes (Single / Double Roll)
- Completing and format cycles possible
- Automatic cycle control (hydraulic)
- Coolant system with pump and tank
- Automatic chip removal
- Manuals

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