

Gear skiving centers

GS700H

- Sliding guideway (box slide) which emphasizes rigidity and achieves high-speed machining
- ■High-rigidity, high-speed trunnion rotary table
- ■#50 Heavy duty spindle: 6,000 min⁻¹







■ Main features of gear skiving center GS700H5

Basic specifications of GS700H

Item		Unit	Basic specifications		
Feed unit	Travel amount (X, Y, Z)	mm	900, 850, 900		
	Tilt axis (A axis) swivel angle	۰	100 (+5 ~ -95)		
	Rapid feed rate	m/min	20 (X) , 36 (Y, Z)		
	Tilt axis (A axis) rotating speed	min ⁻¹	6		
Spindle (Tool axis)	Spindle nose shape		BBT No.50 [OP: HSK-A100]		
	Spindle speed	min ⁻¹	50 ~ 6,000		
	Spindle motor, 30 min. rating/continuous	kW	30/22		
Workpiece axis (B-axis)	Rotating speed	min ⁻¹	1,000		
	Rated output	kW	50/17.5		
	Torque (max./continuous)	N∙m	1,500/960		
	Max. workpiece dia.	mm	φ700		
	Max. workpiece width	mm	500		
	Max. workpiece mass	kg	550 (chuck: 200, workpiece: 350)		
	Workpiece clamp		Manual type [OP: hydraulic type, No. of ports: 8]		
ATC	Tool holding capacity	tools	40 [OP: 60, 120]		
	Max. tool dia. × Max. tool height	mm	φ120 × 600		
	Tool mass	kg	27		
Control	CNC		TOYOPUC-GC70		
Floor space	Width × depth	mm	5,200 × 6,200		

Workpiece to be machined

	Outer gear	Internal gear	
Type of gears	Spur gear, internal gear, helical gear, spline		
Morkoja og piga	ϕ 250 \sim ϕ 700mm		
Workpiece size	Total length 500 mm or less		
Max. module	6		
Workpiece material	Iron type material (before hardening)		
Machining accuracy (reference)	JIS N7 class or equivalent		

Please contact our sales staff for more information.

CNC unit TOYOPUC-GC70 •: Standard / : Optional

Division	Name	Accessories
Axis control	Min. input increment (0.001mm)	•
	Absolute position detection	•
	Inch/metric switch	
Operation	Single block	•
	Manual handle feed 1 unit	•
	Machine lock	
	Dry run	
	Manual handle interrupt	
Interpolation	Positioning (G00)	•
function	Tapping mode (G63)	•
	Cutting mode (G64)	•
	Exact stop (G09)	•
	Linear interpolation (G01)	•
	Arc interpolation (G02,G03)	•
	Dwell (G04)	•
	Reference point return (G28)	•
	Second reference point return (G30)	•
	Third and fourth reference point return (G30)	•
Program entry	Machine coordinate system (G53)	•
	Workpiece coordinate system (G54 \sim G59)	•
	Custom macro	•
	Fixed drilling cycle (G74,G84,G98,G99)	•
	Optional stop	•
	Optional block skip (9 pieces)	
Spindle function	Rigid tap	•
Tool function	Tool corrections (40)	•
Tool correction	Tool diameter compensation	•
function	Tool length compensation (G43,G44,G49)	•
Editing	Program storage capacity (1,024Kbyte)	•
operation	Number of registered programs (1,000)	•
	Background editing	•
Data entry/display	Touch panel control	•
Communication function	Ethernet function	•
Others	12.1" color LCD	•

■Original technology supported by JTEKT's achievements in mass production

Simple programming, visualized engineering and machining technology **Elemental engineering** Controls engineering High-speed/high-rigidity High-speed/highly accurate gear-cutting control workpiece axis TOYOPUC-GC70 · 1,000 min-1 specification ·High-accuracy skiving control using ·Size reduction due to built-in motor high-speed synchronization ·Supports automatic hydraulic fixtures ·Simple programming function Machining technology Tool engineering Optimum machining Low-resistance tool design conditions ·Tool design based on original JTEKT gear creation theory ·The optimum machining conditions are selected to suit customer products

■GS700H, GS300H applicable range



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Type of Machinery: Machining Center Model Number: GS700H