

High productivity and quality  
in a machine size suited  
for mass production

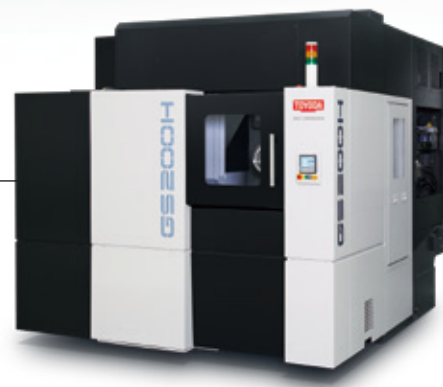
TOYODA

# GEAR SKIVING CENTER

Gear skiving centers

## GS200H

This center boasts the exact same process integration function that is the greatest feature of the JTEKT Gear Skiving Center, and integrates the engineering and know-how cultivated on large-size machines into a small-size machine.



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Koyo TOYODA

# Main features of gear skiving center GS200H5

## Basic specifications

Item			GS200H5
Feed unit	Travel amount (X, Y, Z)	mm	470, 360, 620
	B-axis swivel table indexing angle	°	0.001° : NC
	Rapid feed rate	m/min	48
Spindle	Spindle nose shape	—	BT No.50
	Spindle speed	min <sup>-1</sup>	6,000
	Spindle motor, short-time / continuous	kW	30 / 25
Workpiece axis	Rotating speed	min <sup>-1</sup>	3,000
	Rated output	kW	32 / 19.5 [OP: 33.5 / 28.3]
	Workpiece clamp		Hydraulic ports: 2 [OP:6] Pneumatic ports: 2 *Ports supplying during rotation: 1 (Hydraulic)
A T C	Tool holding capacity	tools	8 [OP: 20]
	Tool change time (tool to tool)	sec	2.4 (~7kg)
	Max. tool dia. × Max. tool height	mm	φ160×300
	Tool mass	kg	27
Control	CNC	—	TOYOPUC-GC70
Floor space (Width × depth)	Machine dimension	mm	2,400 × 3,000

## Workpiece to be machined

	Outer gear	Internal gear
Type of gears	Spur gear, internal gear, helical gear, spline	
Workpiece size	φ30 ~ φ220mm	φ50 ~ φ200mm
	Total length 100 mm or less	
Max. module	3.5	
Workpiece material	Iron type material (before hardening)	
Machining accuracy (reference)	JIS N7 class or equivalent	

Please contact our sales staff for more information.

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

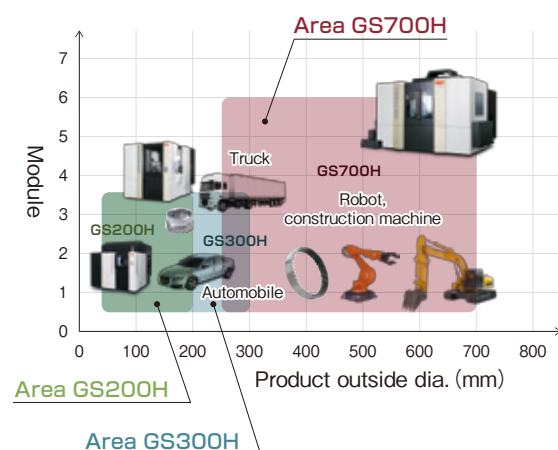
Simple programming, visualized engineering and machining technology

<b>Elemental engineering</b> <b>High-speed/high-rigidity workpiece axis</b> <ul style="list-style-type: none"> <li>•3,000 min<sup>-1</sup> specification</li> <li>•Size reduction due to built-in motor</li> <li>•Supports automatic hydraulic fixtures</li> </ul>	<b>Controls engineering</b> <b>High-speed/highly accurate gear-cutting control TOYOPUC-GC70</b> <ul style="list-style-type: none"> <li>•High-accuracy skiving control using high-speed synchronization</li> <li>•Simple programming function</li> </ul>
<b>Machining technology</b> <b>Optimum machining conditions</b> <ul style="list-style-type: none"> <li>•The optimum machining conditions are selected to suit customer products</li> </ul>	<b>Tool engineering</b> <b>Low-resistance tool design</b> <ul style="list-style-type: none"> <li>•Tool design based on original JTEKT gear creation theory</li> </ul>

## 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 function	Positioning (G00)	●
	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 ~ G59)	●
	Custom macro	●
	Fixed drilling cycle (G74,G84,G98)	●
	Optional stop	●
	Optional block skip (9 pieces)	□
Spindle function	Rigid tap	●
Tool function	Tool corrections (40)	●
Tool correction function	Tool diameter compensation	●
	Tool length compensation (G43,G44,G49)	●
Editing operation	Program storage capacity (1,024Kbyte)	●
	Number of registered programs (1,000)	●
	Background editing	●
Data entry/display	Touch panel control	●
Communication function	Ethernet function	●
Others	4" color LCD	●
	12" color LCD	□

## GS200H, GS300H, GS700H applicable range



<http://www.jtekt.co.jp>

Information presented in this brochure is subject to change without prior notice.

Available machines or machines shown may vary depending on optional equipment or periodic design changes.

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In order to observe laws and regulations and prevent inappropriate export, re-sale and relocation, JTEKT has equipped all of our NC machine tools with devices that detect relocation. If this device is activated, the machine will cease operation and will not restart until it has been checked by JTEKT. JTEKT may refuse to restart the machine should it be deemed that such an action would amount to the inappropriate export of a commodity or technology, or violate export regulations. In such a case, JTEKT will not be liable for any damages arising from the refusal to restart machine operation and do not bear any liability to perform services pertaining to product warranty.

Please contact your JTEKT representative for details. Always read manuals carefully before using any machinery to ensure safe and proper use.

Type of Machinery: Gear Skiving Center  
Model Number: GS200H