Main specifications

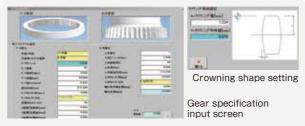
Machining capacity	Workpiece diameter	ϕ 3~100mm (Internal skiving ϕ 40~100)	
	Max. workpiece length	30~300mm (End-face machining: up to 60mm)	
Cutter spindle	Spindle taper hole	Capto C6	
	Max. RPM of spindle	12,000rpm	
Workpiece spindle	Max. RPM of spindle	8,000rpm	

Machine Layout



Each unit traverse (5 axes)	Z-Y-Z(back-forth/up-down/left-right)	X200mm/Y320mm/Z350mm	
	Tool swivel angle	-5~95deg	
ATC(Option)	Number of ATC tool storage	None/6/22	
NC device	type	FANUC 31i-B	
Machine size (Standard)	Main Body(width x length)	2,425×3,320mm	
	Machine weight	about 6,500kg	

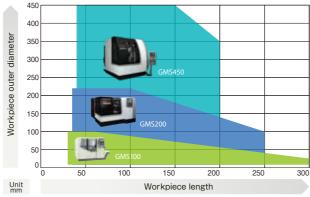
Simple gear shaping setting by interactive operation screen



Interactive screen for skiving and hobbing.

- •Easy setting of crowning for special tooth shape.
- •All settings of gear shaping condition
- and compensation are possible by the software.

Workpiece size of GMS series



NACHI's total solution



Skiving cutter



Hobbing cutter

Robot transfer Vacuum carburizing furnace



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This machine is considered a strategic resource (or service) according to restrictions in the foreign exchange and trade laws. Based on these laws, export from Japan requires an export permit from Japanese government.

Head Office Toyama Plant	Shiodome Sumitomo Bldg. 17F, 1-9-2 Higashi-Shinbashi, Minato-ku, Tokyo 105-0021 Tel: +81-(0)3-5568-5246 1-1-1 Fujikoshi-Honmachi, Toyama 930-8511 Tel: +81-(0)76-423-5111					
NACHI AMERICA INC. HEAD QUARTERS	715 Pushville Road, Greenwood, Indiana, 46143, U.S.A.	Tel: +1-317-530-1001	Fax: +1-317-530-1011	www.nachiamerica.com		
NACHI EUROPE GmbH	Bischofstrasse 99, 47809, Krefeld, GERMANY	Tel: +49-(0)2151-65046-0	Fax: +49-(0)2151-65046-90	www.nachi.de		
NACHI TECHNOLOGY (THAILAND) CO., LTD.	5/5 M, 2, Rojana Industrial PARK Nongbua, Ban Khai, Rayong, 21120, THAILAND	Tel: +66-38-961-682	Fax: +66-38-961-683	www.nachi.co.th		
PT.NACHI INDONESIA	Tempo Scan Tower, 31st Floor Jl.H.R Rasuna Said Kav. 3-4 Kuningan, Jakarta 12950 INDONESIA	Tel: +62-021-527-2841	Fax: +62-021-527-3029	www.nachiindonesia.com		
NACHI (CHINA) CO., LTD.	5F, Building A, National Center for Exhibition and Convention, 1988 Zhuguang Road, Qingpu District, Shanghai, 201702, CHINA	Tel: +86-(0)21-6915-2200	Fax: +86-(0)21-6915-5427	www.nachi.com.cn		
• All information in this catalog is based on in-house measurements. This information is not guaranteed for all conditions.		CATALOG N	O. M6204E			
 Improvements to ratings or outer ap 	or outer appearance may result in unannounced changes.			2022 02 X-EDIT-MIZUNO		



Skiving machining center for gears









Skiving machining center for gears

GMS100

Integrated process machine for small parts of electronics, EV, reduction gear, air craft, and medical instrument.

Features of GMS100

- Gear machining processes (skiving, hobbing, lathe, drilling) are integrated into one machine.
- Optimal capability for small workpiece.
- (outer diameter: up to \$\phi100mm\$, full length: up to 300mm\$)
 Enhanced lathe function with optimal axis composition, special cutting tool, and program.
- Installation floor space comparison: 54%-reduced with machining line of lathe, drilling and gear cutting.
- High accurate machining for free curved surface is possible with high rigidity and by multi-axis synchronizing control.

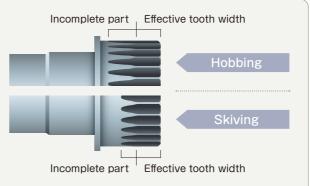
Suggestion of integrated processes



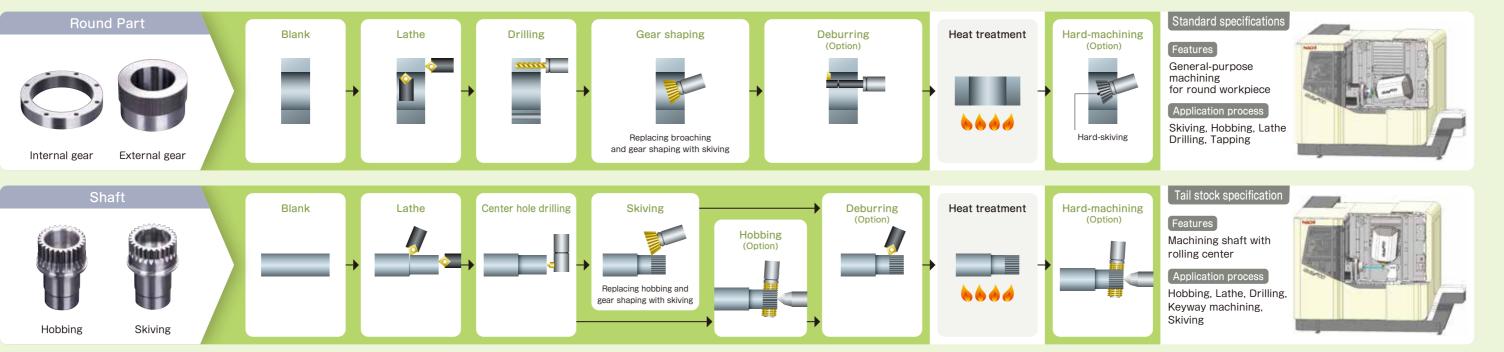




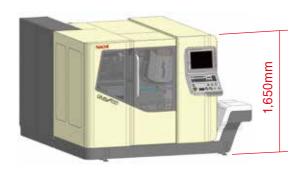
Comparison between skiving and hobbing



Hobbing makes some large incomplete parts of gear, but skiving can reduce the parts compared to the hobbing. Skiving can make workpiece compact and light-weighted.



Reduced machine height and compact machine



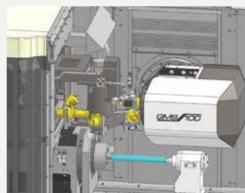
Workpiece setting/removal length: 450mmWorkpiece setting height: 900mm

Bar feeder specifications

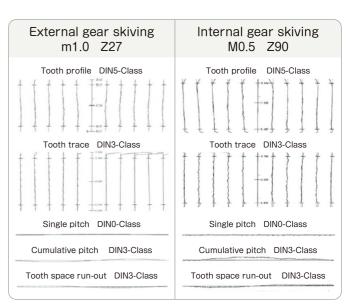


Multi-machining, cutting + gear-shaping, is possible with auto workpiece feeding (less than ϕ 24).

ATC specifications(6 tools)



ATC with 22 tools is applicable.



Skiving Machining Center for Gears GMS100

Gear Accuracy by Skiving: DIN5-Class

Machining example

