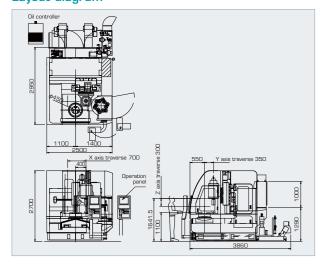
Main specification

	Max. workpiece diameter	mm	φ450			
	Max. machining module	-	m4.5			
Machining capacity	Max. machining teeth width	- m4.5 mm 120 mm 250 - Skiving cut - 7/24 Tapi min-1 3000 kw 26/22 min-1 1400 kw 26/22 mm 700 mm 350 mm 300 deg ±25 \$ \$ 6 mm \$0150 mm 250 - Tool storag - FANUC 3 - FANUC 5 kVA 88 mm 2700 mm 2500 mm 2700	120			
	Max. workpiece height	mm	250			
	Gear cutting tool	-	Skiving cutter			
	Spindle taper hole (tool shank type)	-	7/24 Taper No.50 (BBT50)			
Cutter spindle	Max. RPM of spindle	min-1	3000			
	Motor (30 min/continuous)	kw	26/22			
Weekniese spindle	Max. RPM of spindle	min-1	1400			
Workpiece spindle	Motor (30 min/continuous)	kw	26/22			
	Left - Right traverse (X-axis)	mm	700			
Each unit traverse	Forward - Back traverse (Y-axis)	mm 350 mm 300 deg ±25	350			
Each unit traverse	Up - Down traverse (Z-axis)	mm	300			
	Tool swivel angle (B-axis)		±25			
	Number of tool storage	本	6			
A.T.C.	Max. tool diameter	kw 26/22 mm 700 mm 350 mm 300 deg ±25	φ15O			
A. I.G.	Max. tool length		250			
	Tool selection method	- Skiving cutter - 7/24 Taper No.50 (BE min-1 3000 kw 26/22 min-1 1400 kw 26/22 mm 700 mm 350 mm 300 deg ±25	Tool storage position fixed / random			
NC device	Туре	-	FANUC 31i-B			
NC device	Display	-	FANUC PANEL-i			
Utilities	Overall power used	kVA	88			
Dimensions of machine	Machine height	mm	2700			
	Required floor space (width x depth)	mm	2500×3860			
	Net machine weight (main body)	kg	22000			
	Workpiece chuck External scale 22 piece ATC					
Options	Hard machining package					
	Workpiece handling by robots					

Providing cutting tools optimized for workpiece size and effective production



Layout diagram



Skiving cutter

Propose our skiving cutter and cutting conditions to match the various workpiece specifications and applications.



Features of NACHI cutters

- Analyzed cutting mechanism with the cutting tool design technology and gear cutting technology that we have developed. Improved precision of machining work and extended tool life.

 Established surface processing technology needed for skiving that produces better surfaces with optimized deposition process and design of coating commonents.

components.

Carbide skiving cutters are able to achieve hard skiving process after heat



NΔCHi

This machine is considered a strategic resource (or service) according to restrictions in the foreign exchange and trade laws.

NACHI-FUJIKOSHI CORP.	Based on these laws, export from Japan requires an export permit from the Japanese government.				
http://www.nachi.com					
Toyama Head Office Tokyo Head Office	1-1-1 Fujikoshi-Honmachi, Toyama 930-8511 Tel: +81-(0) Shiodome Sumitomo Bldg. 17F, 1-9-2 Higashi-Shinbashi, M	•	1 Tel: +81-(0)3-5568-524	16	
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 SINGAPORE PTE. LTD.	No.2 Joo Koon Way, Jurong Town, Singapore 628943, SINGAPORE	Tel: +65-65587393	Fax: +65-65587371	www.nachinip.com.sg	
NACHI TECHNOLOGY (THAILAND) CO., LTD.	Unit 23/109(A), Fl.24th Sorachai Bldg., Sukhumvit 63 Road(Ekamai),	Tel: +66-2-714-0008	Fax: +66-2-714-0740	www.nachi.co.th	
BANGKOK SALES OFFICE	Klongtonnua, Wattana, Bangkok 10110, THAILAND				
NACHI (SHANGHAI) CO., LTD.	5F, Building A, 1988 Zhuguang Road, Quingpu District, Shanohai 201702 CHINA	Tel: +86-(0)21-6915-2200	Fax: +86-(0)21-6915-5427	www.nachi-china.com.cr	

All information in this catalog is based on in-house measurements. This information is not guaranteed for all conditions. Improvements to ratings or outer appearance may result in unannounced changes.

CATALOG NO.

M6202E

2016.9.X.MD-SANWA

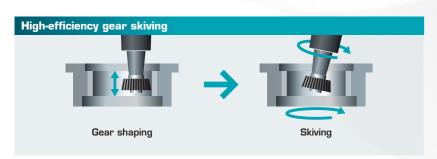


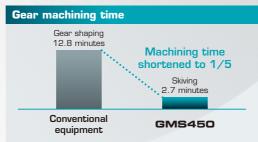
Super accurate high performance skiving at peak of ideals

Skiving machining center for Gears

GMS450

- High efficiency gear skiving reduces machining time to as much as 1/5 (compared to gear shaping)
- Proprietary technologies used to add lathe and drill to skiving machine for a multi-functional gear shaper
- Both mass production & multi-type-small-lot production
- Compact yet can be machining up to 450mm diameter part
- Hard-skiving achieves high-precision machining of hardened gears
- Interactive operation screen provides excellent man-machine interface





Machining conditions: Module, 2.5 Number of tooth: 87

Three jobs consolidated in one machine

Skiving machining center for Gears GMS450 achieves a high-efficiency gear skiving machine. Plus, it also has lathe and drill functions that integrate jobs in this skiving gear shaping machine.

Skiving specification		Max. workpiece diameterModuleMax. machining teeth width	φ450mm m4.5 120mm	
Lathe specification	♦	 Max. machining diameter Max. RPM Torque (max./rated) Motor (30 min/continuous) 	φ450mm 1400rpm 512/305Nm 26/22kW	404
Drilling specification		■ Max. RPM ■ Motor (30 min/continuous)	3000rpm 26/22kW	

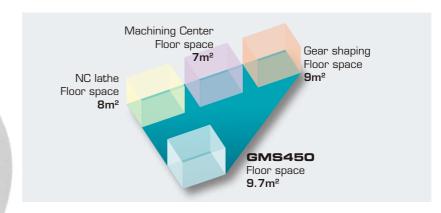


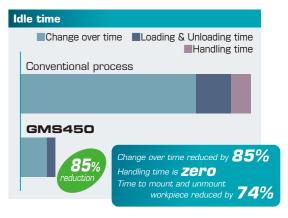




To achieve smart production lines by reducing floor space

Skiving machining center for Gears requires little space to improve gear production lines to be smart production lines that can handle a variety of production formats from multi-type small-lot production to high-volume production.





Proprietary technologies produce new design skiving machine

Upright machining center built with gantry-type column Skiving machine with table that rotates on B-axis

New spindle designed for skiving

Super-rigid spindle equipped with large diameter bearing and high-torque direct drive motor

All axes have V-rail slides

V-rail slides with superior rigidity and damping used on all sliding surfaces, including the tool spindle.

X axis and B axis equipped with table clamp mechanism

Tool swivel (B-axis) Tool spindle Workpiece Workpiece

Superior workability and operability





Gear specification input screen

of workpieces

Easy access to Jig

Large 15-inch display Crowning form setting

Machining application

