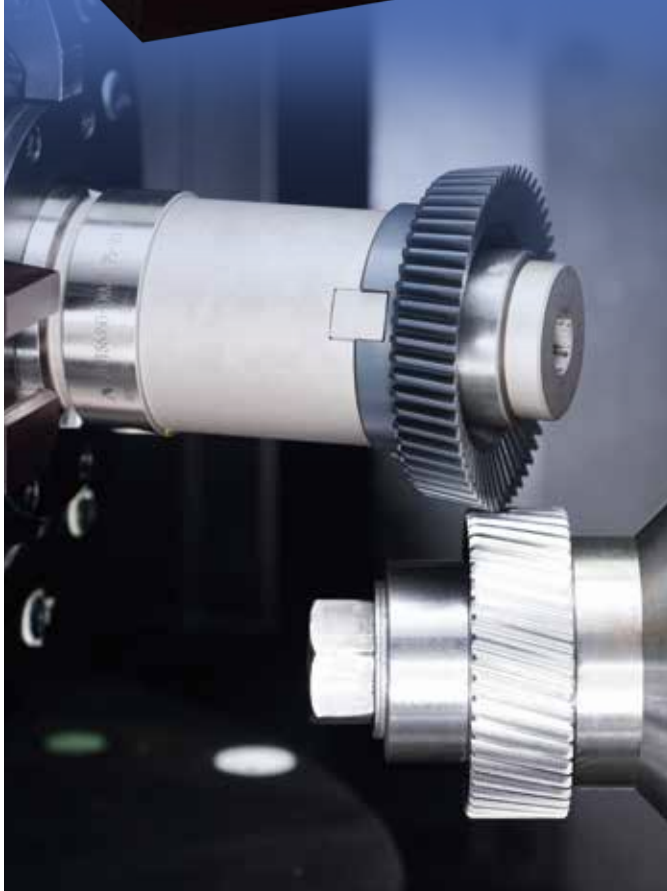


NACHI

INTEGRATED
MACHINING
CENTER
for GEARS

SKIVING MACHINING CENTER for GEARS

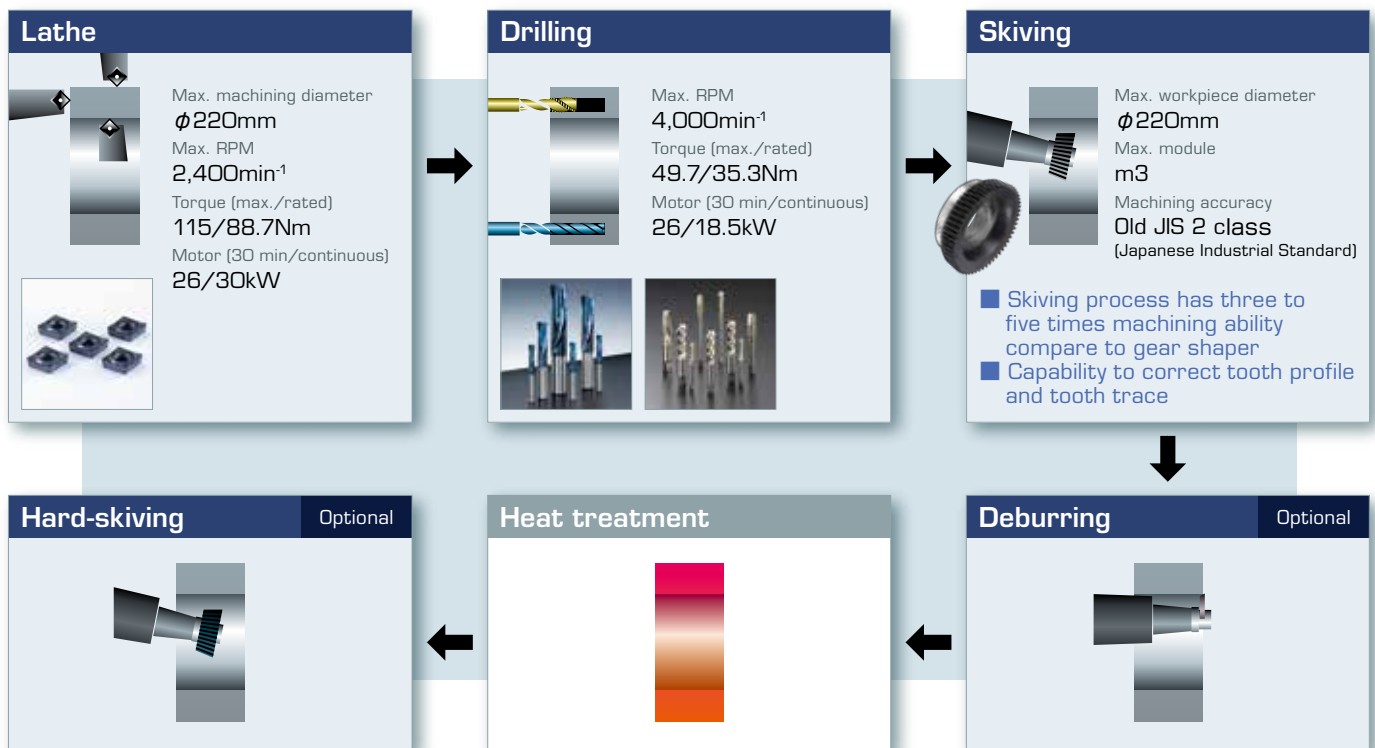
GMS200



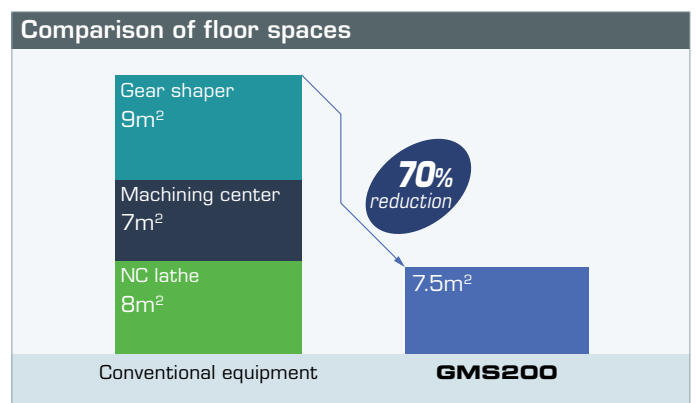
General purpose • Compact Multi-function machine to include skiving function

- Best for gear machining for automotive parts
- Compact equipment with flexibility to cope with the various kinds of small quantity production and multiple processes
- Hard-skiving achieves high-precision machining of hardened gears
- Interactive operation screen provides excellent man-machine interface

Multiple process in one machine

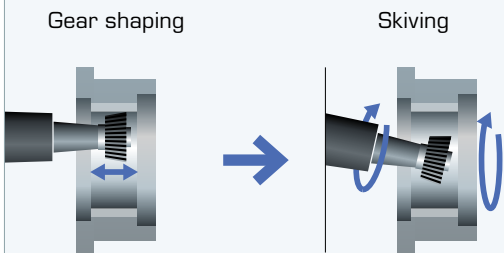


To achieve compact production lines by reducing floor space with 3 roles in 1 machine

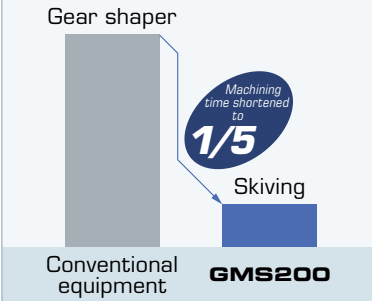


High-efficiency gear skiving and integrated process remarkably reduce machining time

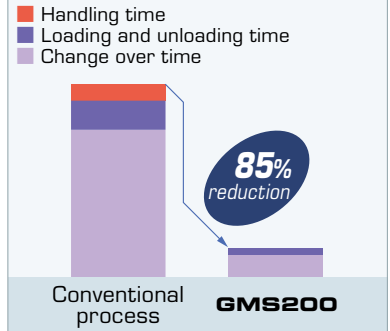
High-efficiency gear skiving



Gear machining time



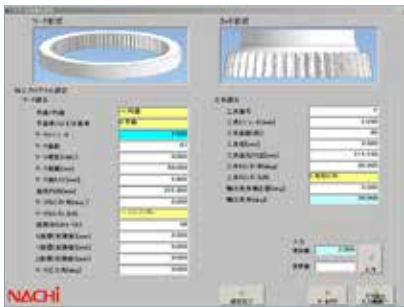
Idle time



Superior workability and operability

Interactive operation screen for skiving (optional)

- Crowning process and run-in amount modification function (initial mode)
 - Newly added tool compensation setting and workpiece coordinate system preset
- All machining conditions for skiving can be set



Gear specification input screen



Crowning form setting



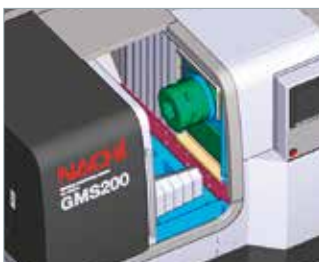
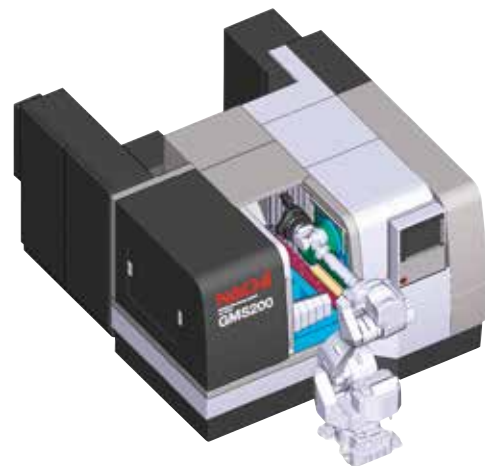
Tool compensation setting screen

Reduced machine height for better view

- Contribute to environment improvement in factory



The design for auto loading system with robots



Ceiling opening door

- Aperture dimension : 600mm
- Easy access to jig and simple loading & unloading of workpieces
- Workpiece installation height : 1,170mm

Machining application

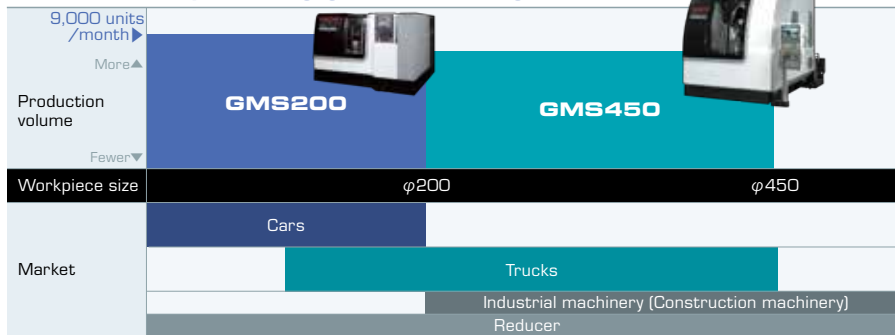


Main specification

Machining capacity	Max. workpiece diameter	φ220mm
	Max. machining module	m3.0
	Gear cutting tool	Skiving cutter
Cutter spindle	Spindle taper hole (tool shank type)	KM6350
	Max. RPM of spindle	4,000min ⁻¹
	Motor (30 min/continuous)	26/18.5kW
Workpiece spindle	Max. RPM of spindle	2,400min ⁻¹
	Motor (30 min/continuous)	26/30kW
Each unit traverse	Left-Right traverse (X-axis)	500mm
	Forward-Back traverse (Y-axis)	200mm
	Up-Down traverse (Z-axis)	300mm
	Tool swivel angle (B-axis)	±45deg

A.T.C.	Number of tool storage	6 piece
	Max. tool diameter	φ120mm
	Max. tool length	240mm
NC device	Tool selection method	Tool storage position fixed/random
	Type	FANUC 31i-B
Utilities	Display	FANUC 15" touch panel
	Overall power used	74kVA
Dimensions of machine	Machine height	1,680mm
	Required floor space (widthxdepth)	2,500x3,000mm
	Net machine weight	7,000kg

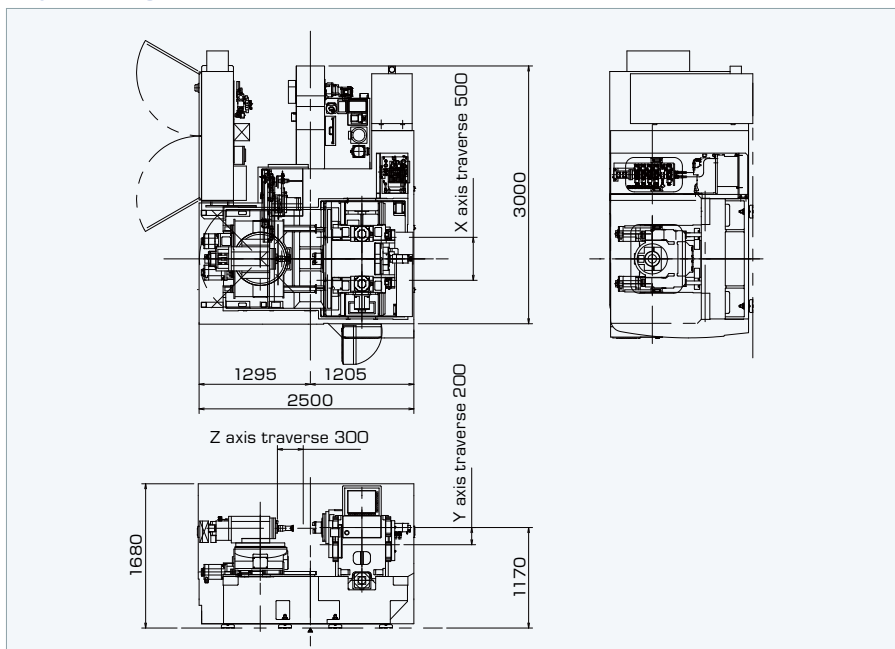
Product line-up for ring gear machining



Skiving cutter for hard-skiving



Layout diagram



Combine with NACHI robots for auto loading system



NACHI

NACHI-FUJIKOSHI CORP.

<http://www.nachi.com>

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● 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.

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