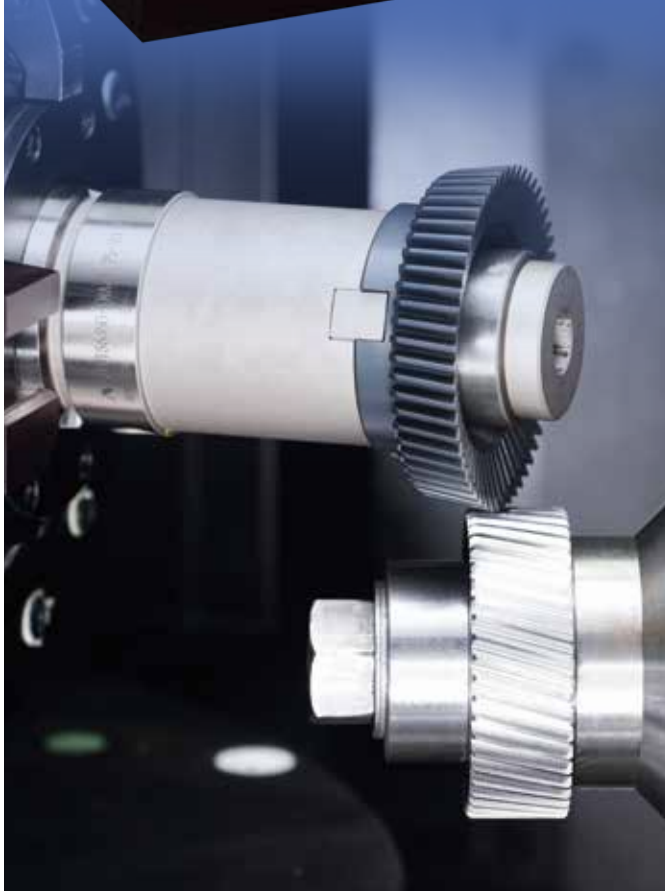


**NACHI**

INTEGRATED  
MACHINING  
CENTER  
for GEARS

SKIVING MACHINING CENTER for GEARS

**GMS200**



# GMS200

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

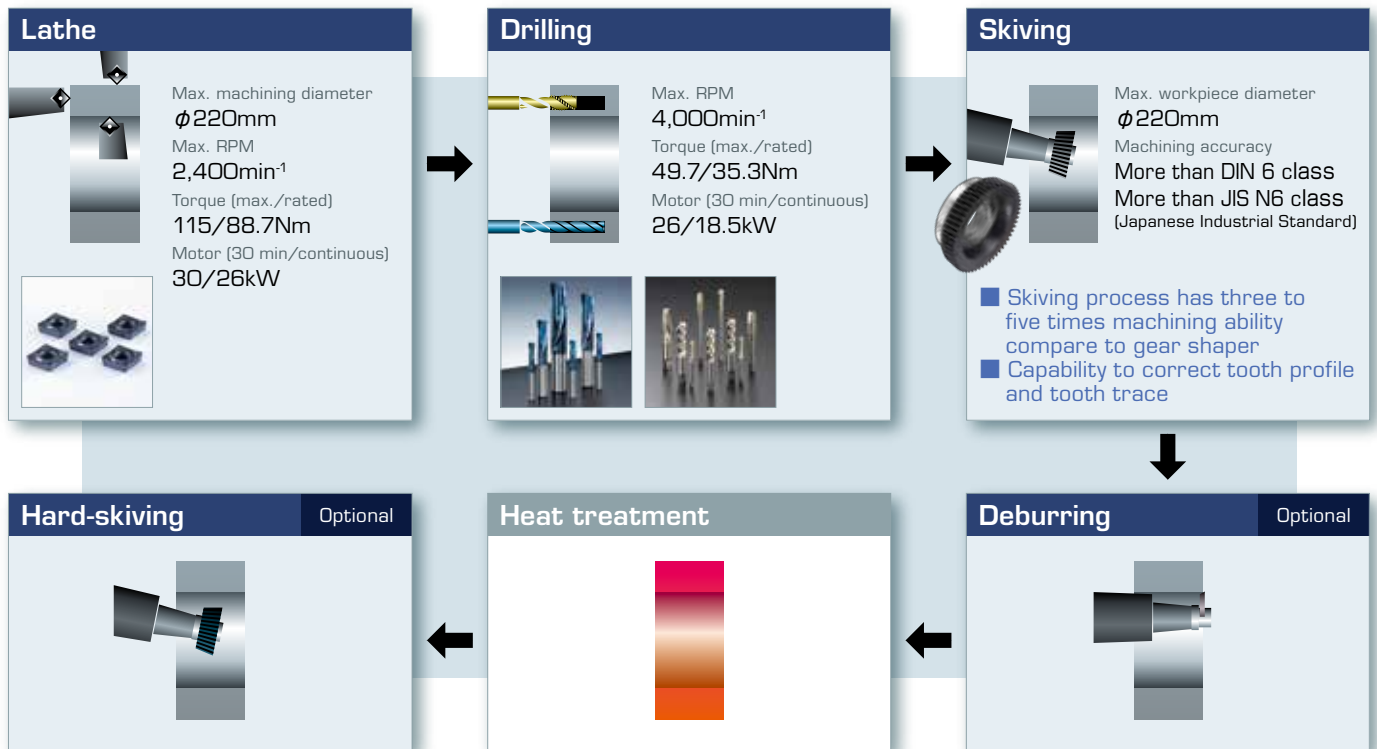
- Best for gear machining for automotive parts
- Compact equipment with flexibility to cope with the various kinds of small quantity production and multiple processes
- Hard-skiving achieves high-precision machining of hardened gears
- Interactive operation screen provides excellent man-machine interface

**WEB VIDEO**

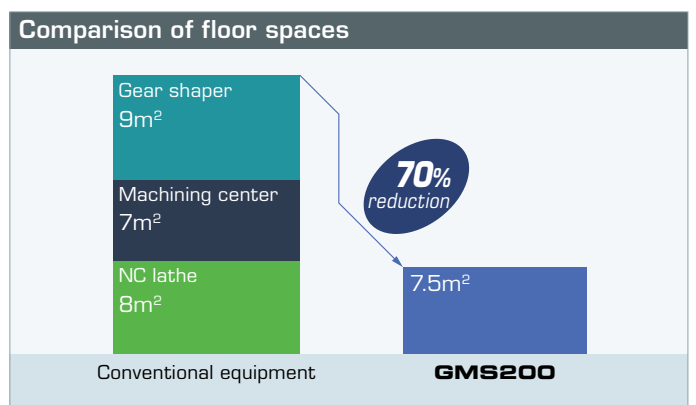
Please scan QR code by smart phones or mobile phones. You can watch videos of GMS200.



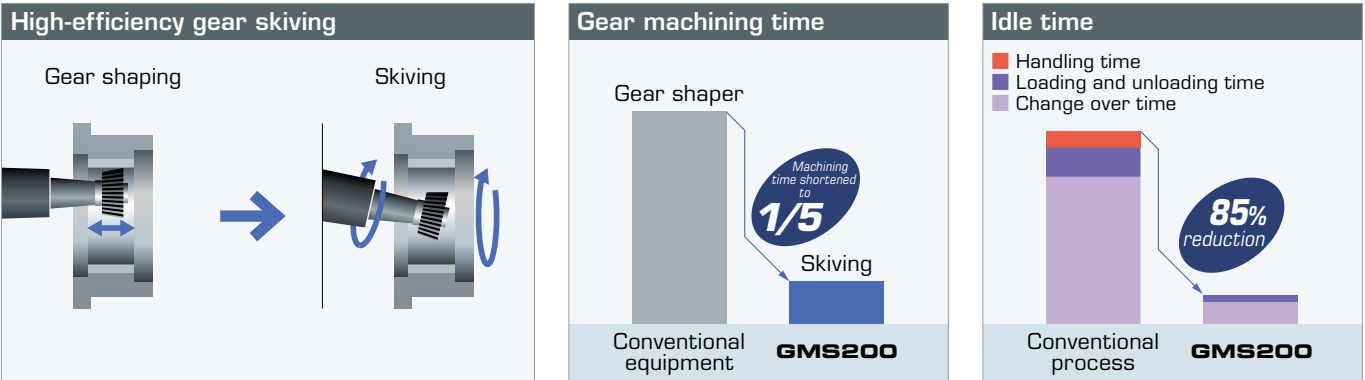
### Multiple process in one machine



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



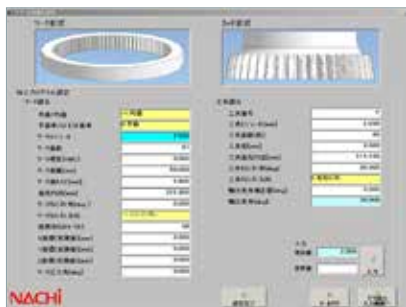
## High-efficiency gear skiving and integrated process remarkably reduce machining time



## 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



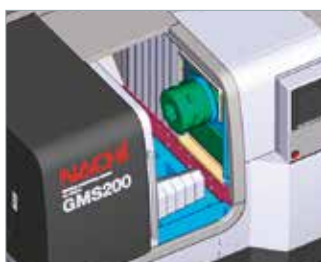
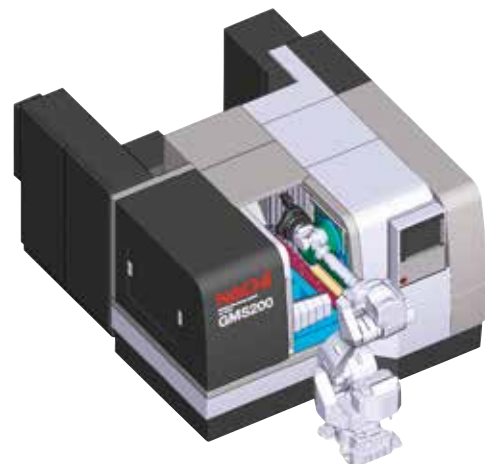
Tool compensation setting screen

### 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

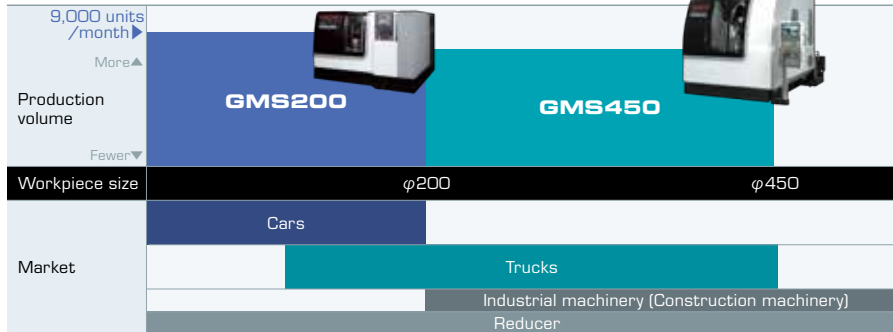


## Main specification

Machining capacity	Max. workpiece diameter	φ220mm
	Gear cutting tool	Skiving cutter
Cutter spindle	Spindle taper hole (tool shank type)	KM6350
	Max. RPM of spindle	4,000min <sup>-1</sup>
	Motor (30 min/continuous)	26/18.5kW
Workpiece spindle	Max. RPM of spindle	2,400min <sup>-1</sup>
	Motor (30 min/continuous)	30/26kW
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	8,000kg

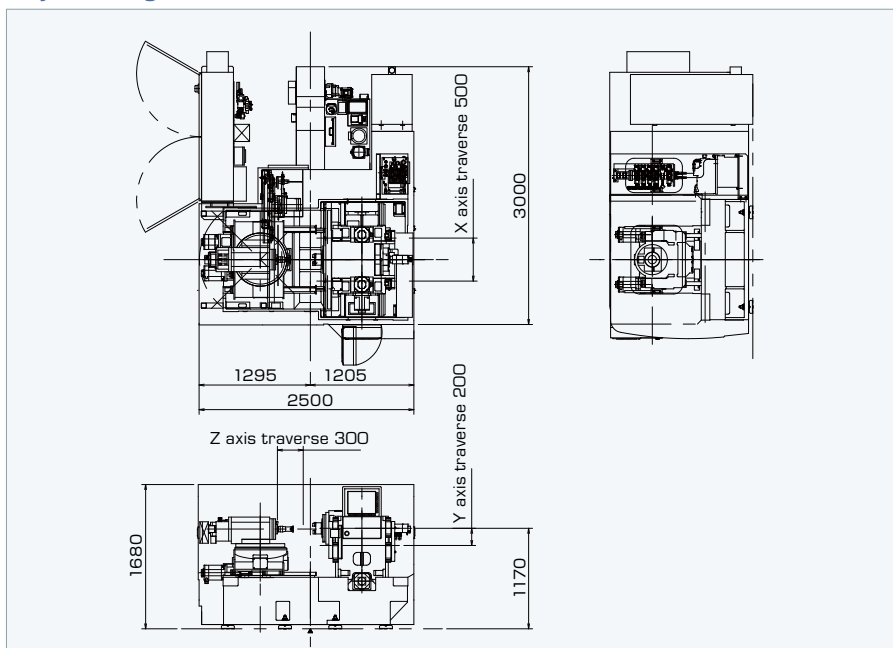
## Product line-up for ring gear machining



## Skiving cutter for hard-skiving



## Layout diagram



## Combine with NACHI robots for auto loading system



# NACHI

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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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