

Gear Solution

Gear Production[†]

by NMV 5000 DCG



Process integration for gear processing

DMG MORI Gear Machining Solution

For various types of industrial gears

- + Module: m2-m6
- + External gears: up to ϕ 400 mm (ϕ 15.7in.)
- + Internal gears: ϕ 120 to ϕ 430 mm (ϕ 4.7 to ϕ 16.9 in.)

Also handles groove shapes like splines and keyways.



Accuracy results

	Rating	
Tooth profile error	ISO Rank 4	
Tooth trace error	ISO Rank 4	
Pitch error	ISO Rank 4	
Tooth groove runout	ISO Rank 4	

Workpiece specifications	
Module	2.5 (mm) <0.10 (in.)>
Number of teeth	84
Pressure angle	20 (deg)
Material	S45C High frequency



DMG MORI

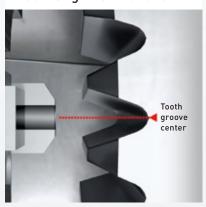
Gear Grinding Unit

In-machine stocker



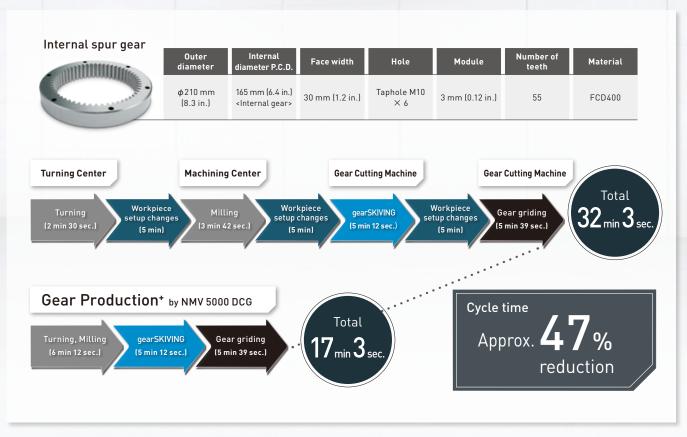
The gear grinding unit is stored in a dedicated in-machine stocker. Automatic tool change enables roughing and grinding in one machine.

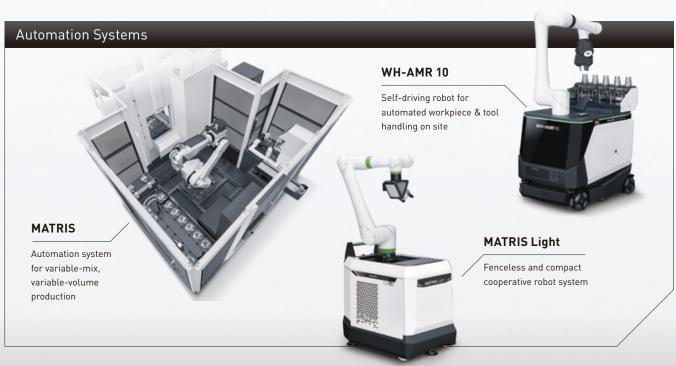
Tooth alignment function



The tooth phase alignment function automatically detects the gear phase during roughing for stable grinding allowance and shorter processing time.

Reduction of machining time through process integration





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- + The machines shown in the catalog may differ from the actual machines. The location and the size of the nameplates may also differ from the actual machines, or the nameplates may not be attached to some machines.
- + DMG MORI is not responsible for differences between the information in the catalog and the actual machine

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