

Press Release

March 25th, 2024

A Variety of Measuring Functions for Shorter Setup by Technology Cycle “Measuring Pro”

DMG MORI CO., LTD. (hereinafter “DMG MORI”) has developed the Technology Cycle “Measuring Pro” to greatly shorten setup times with its rich measuring functions.

Technology Cycles integrate (1) the machine tool, (2) open innovation such as cutting tools and peripheral equipment, (3) embedded software, and (4) the HMI (Human Machine Interface) such as CELOS. In the past, operators had to rely on dedicated machines, dedicated programs, and special tools for machining, setup, and measurement. Now, with Technology Cycles, these processes can be easily performed by anyone using universal machines, standard tools and standard jigs to realize quick start-up and high-quality machining.

In recent years, the increasing complexity and accuracy of workpieces have made measurement processes more sophisticated as well. Many customers have been relying on G-code inputs or dedicated macro programs to cope with the challenges. This, however, makes it necessary to frequently look up workpiece coordinates and other machine system variables for measurement and compensation, as well as to confirm the reliability of the self-created programs, the measurement processes and results.

DMG MORI digitally transforms the creation of measuring programs with “Measuring Pro”. Operators can freely choose from 16 measurement cycles*¹, follow the on-screen guidance, and simply input the needed data. Without the need to check manuals or create individual macro programs, the programming time can be drastically shortened. In addition, Measuring Pro automatically feeds back and inputs compensation values, allowing for safe and smooth compensation.*² It does not only promote the digital transformation of program creation, but also automates compensation work to help customers improve their productivity and achieve sustainable production.

Please visit our website for video material.

- Video : https://www.dmgmori.co.jp/movie_library/movie/id=6853

■ Features

① Equipped with 16 rich measuring cycles*1

+ Measurement of simple XYZ faces up to complex shafts, rotation axis angles, etc.

- XYZ face measurement
- Sphere measurement
- Rotation axis angle measurement
- Angle corner measurement
- Shaft diameter measurement
- Z Calibration
- Plane measurement
- Groove/rib measurement
- Tilting axis angle measurement
- Arc Hole/Boss measurement
- Rectangular Pocket/Boss measurement
- XY face angle measurement
- Face depth measurement
- Corner measurement
- Probe Calibration
- Circular Hole/Boss measurement

② Dialog guidance for swift completion of measuring programs

+ Drastically shorter programming

e.g. measuring programs for parallelism used to take 60 minutes,
but can be completed in only 2 minutes with Measuring Pro*3

③ For safe & smooth compensations

- + The compensation feedback function allows automatic off-set input to avoid manual input errors.
- + The alarm stop function recognizes when upper/lower limits are exceeded and stops the machine to avoid interference.

DMG MORI will continue to release highly functional, reliable, and investment-worthy products to meet the needs of customers across the world and further advance Machining Transformation (MX).

Product name	Technology Cycle “Measuring Pro”	
Compatible models*4*5	5-axis machines	INH series
	Mill-turn machines	NTX series
	Machining centers	NVX series, NHX series
	Turning centers	NLX series

*1 For the INH series, the number of measuring cycles may be different according to machine model and specification.

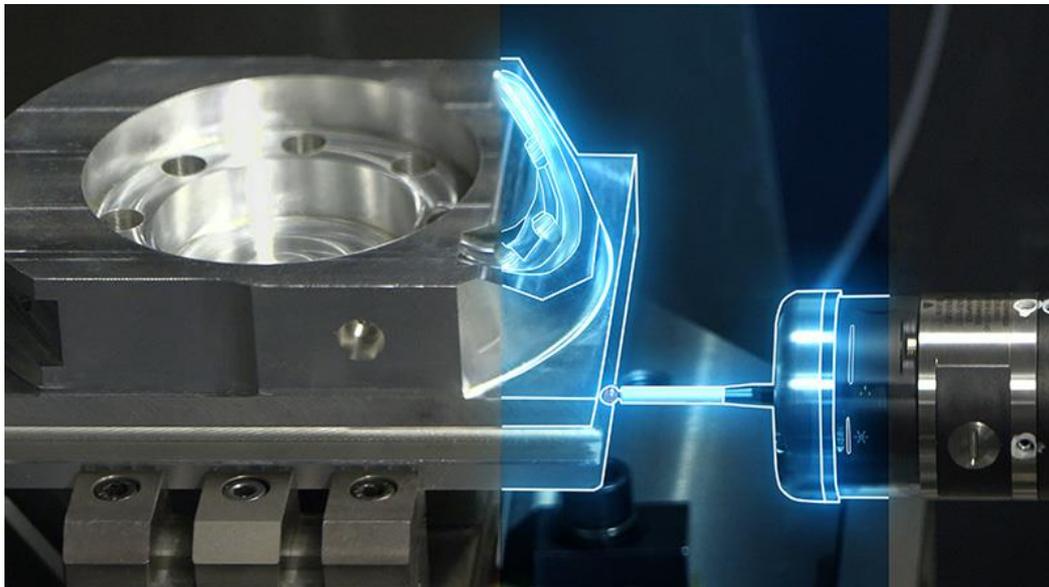
*2 The separate option “spindle touch probe” for in-machine measurement is necessary.

*3 Example by DMG MORI. The results may differ according to conditions.

*4 As of March 2024. The separate option “spindle touch probe” for in-machine measurement is necessary.
For details of the supported machine models, please contact your local sales representative.

*5 Only machines with MAPPS are supported.

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Measurement with Measuring Pro