



Hi-Gravitational Barrel Finishing Machine

Mighty-Mild® Vertical



CE For International Models MM4V-40G

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Industry's highest **40G!**

Patent

US9283647
JP5939709

Design

JP1694983
JP1694984

Awarded

2019 Minister of Economy, Trade and Industry of National Invention Award
2018 Japan Chamber of Commerce Chairman's Prize and Machinery
Industrial Design Award
2015 Nagoya City Mayor Prize of Aichi Environmental Award

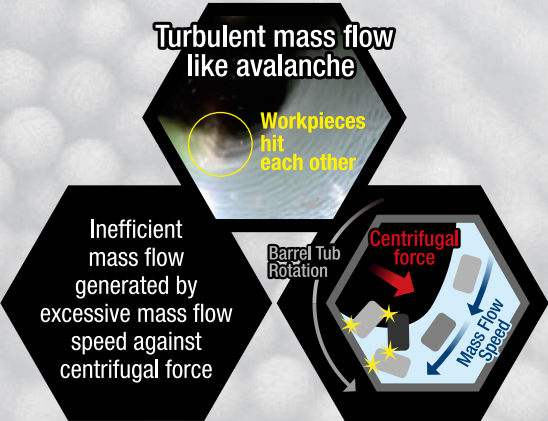
Made in Japan

Principle of hi-gravitational barrel finishing method

Stable pressurized mass flow (patented) enhances the performance of abrasive media to the maximum.



Centrifugal Barrel Finishing Machine



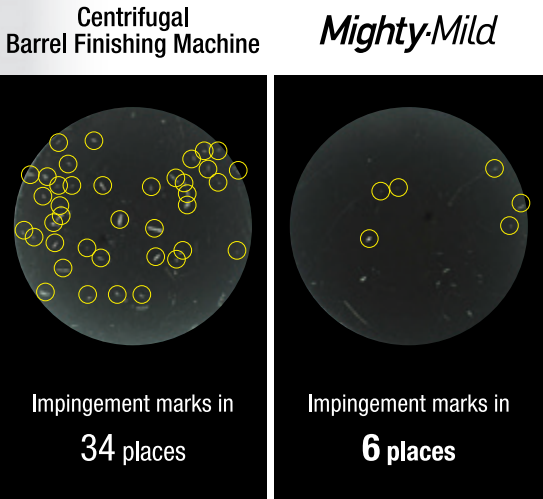
Suited applications

Electric Electronics	Ceramic capacitors	Medical Dental	Implants, Artificial joints
	Magnets		Dental brackets
Machine elements Precision	Optical components		Endoscopic components
	Miniature bearings	Ornament Daily necessities	Fishing tools
	Cutting chips		Clock components
	Oil-pneumatic components		Jewelry

Polishing quickly and carefully with the industry's highest 40G

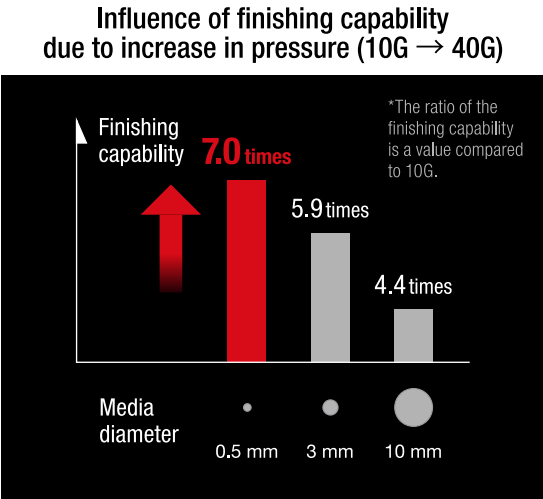
Drastic reduction of cracks and impingement marks

Smooth pressurized flow reduces the number of collisions between workpieces, resulting in a drastic reduction in cracks and impingement flaws.

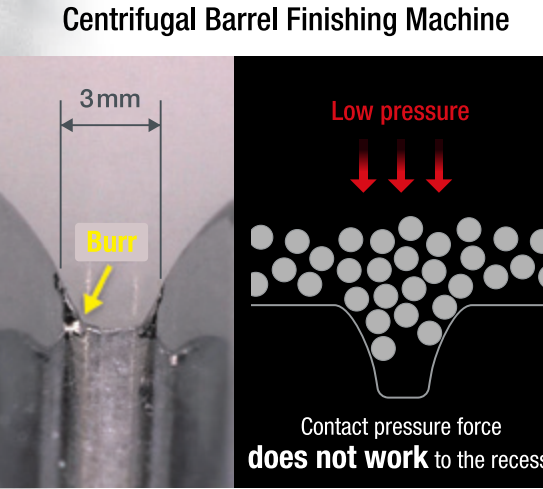


Drastic improvement in finishing capability

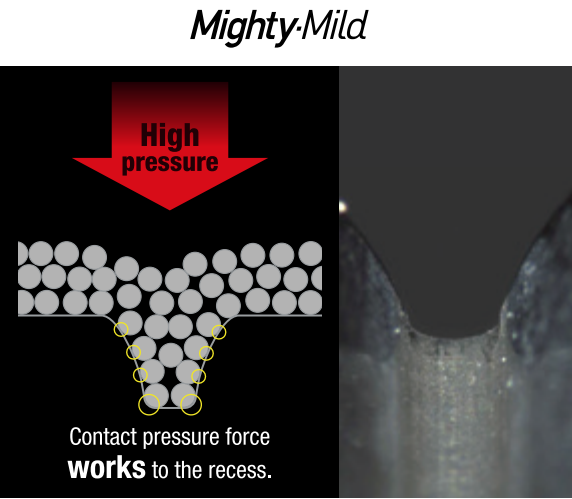
It exerts more than four times the finishing capability compared to conventional centrifugal barrel machines. In particular, it gives a higher finishing effect to minute workpieces and media.



Even complicated recesses and fine shapes are finished quickly and carefully.



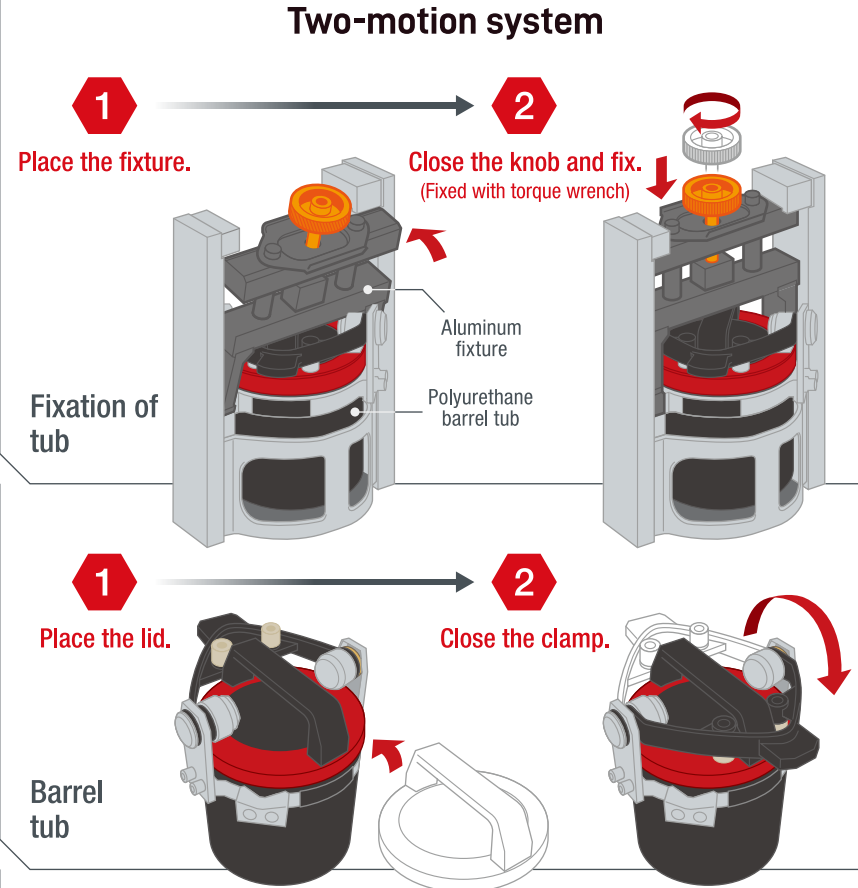
The industry-highest gravity, 40G, removes hidden burrs by pushing media deep into gaps that could not be polished before.



Labor saving, safe, and simple

Universal design easily operable for anyone

Light and easily operable. Even women and the elderly can handle it easily.



Highest reliability and support for stable operation

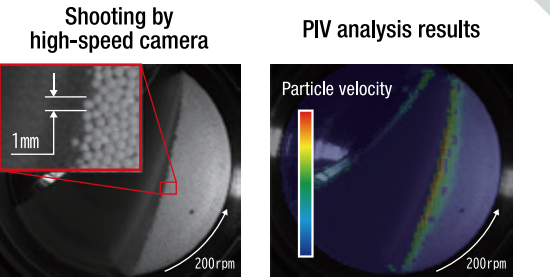
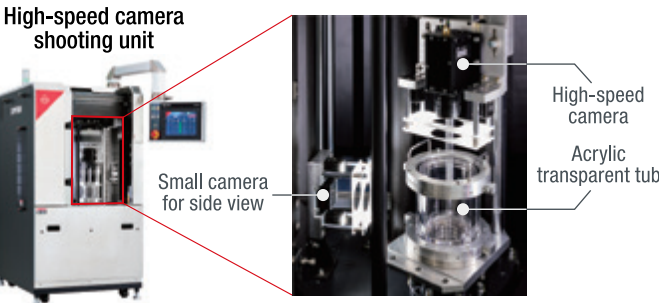
- ▶ Highest-level safety reliability
Compliant with ISO13489-1 European and American PLe safety standards
CE
Patent JP5939709
- ▶ Automatic rotation speed correction function
Automatically corrects the rotation speed to +/-5 rpm or less of the setting. This ensures the constant finishing condition.
- ▶ Five times longer product life of drive section (compared to conventional models)
Newly developed bearing structure realizes both the industry's highest 40G and longer life of the drive section.
Patent JP2025-126959
- ▶ Barrel tub fixation detection function
Detects the failure to fix the barrel tub or looseness caused during finishing and automatically stops the tub.
Patent JP2024-119459

Special specifications

Flow analysis specification (high-speed camera)

The behavior in the highly rotating finishing tub can be observed precisely using the high-speed camera. In addition, the speed distribution of the content can be evaluated quantitatively by PIV analysis of the captured video.

*Applicable to both dry and wet types.
*PIV (Particle Image Velocimetry): A method to measure velocity distribution of particles on a two-dimensional plane based on a particle image



Please contact us for details regarding this specification.

MM4V-40G specifications

Model	MM4V-40G
Relative Centrifugal Acceleration	40.0G (0.5L) /30.0G (1.0L)
No. of barrels	4 barrels
ID of Barrel Tub	1.0 L / 105 mm (Inner diameter) x 105 mm (Depth) 0.5 L / 105 mm (Inner diameter) x 52.5 mm (Depth)
Motor capacity	Revolution / 2.2 kW Rotation / 2.2 kW
Machine size	950 mm (W) x 1220 mm (D) x 1620 mm (H)
Machine weight	Approx. 900 kg

