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Newly launched! Latest polishing machine beyond the limit!







Patent		No.5555383	
Pa	tent	No.5939709	
De	sign	No.1589059	
De	sign	No.1589060	
2019	Awarded M	inister of Economy, Trade and Industry of National Invention Award	
2018	Award Ch	arded Japan Chamber of Commerce Chairman's Prize and Machinery Industrial Design Award	
2015	AICHI CO	arded Nagoya City Mayor Prize of Aichi Environmental Award	



Hi-Gravitational Barrel Finishing Machine

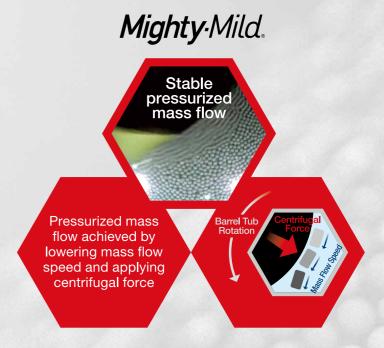
Max. 3 times higher

Max. 70% reduced

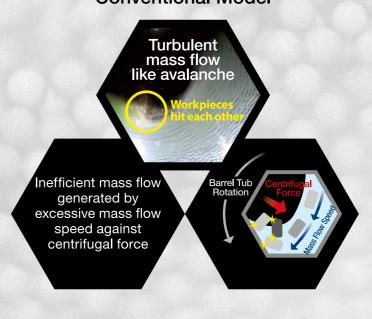
increasing the grinding power but reducing wear of abrasive media.

Mighty-Mild.

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



Conventional Model



Hi-Gravitational Barrel Finishing Machine

Mighty-Mild.

3 advantages to make a big difference from conventional centrifugal barrel finishing machine

Reduction of running cost

Effect of reducing wear of abrasive media

Stable pressurized mass flow can decrease waste wear of abrasive media as well as consumption of abrasive media by 25% to 70%.

♦ Comparison on wear amount of abrasive media with that by Centrifugal Barrel Finishing Machine being 100

Shape		Centrifugal Barrel Finishing Machine	Mighty ·Mild
86	Triangle 3mm	100	30
wigg	Sphere 3mm	100	46
	Random shape 2.5mm	100	74

Reduction by 25% to 70% as compared to conventional ratio

Shortening the processing time

Smooth pressurized mass flow can ensure polishing in a short time without negative effect on workpieces.

Comparison on duration of time to achieve the same grinding amount as compared with that by centrifugal barrel finishing machine being 100

Shape		Centrifugal Barrel Finishing Machine	Mighty ·Mild	
08	Bearing shield (SUS304)	100	32	
	Lens material (Glass)	100	39	
ZÚZ	Carbide chip (Carbide)	100	29	

Reduction by 60% to 70% as compared to conventional ratio

Suited applications OVE sorte Valva about Vana Cooling

Transportation Equipment	Small gear	
Machine Elements	Chain, 3D cam, Bearing, Bush, Lens,	
Precision/ Medical	Probe, Watch stem, Implant	
Electric and	Ceramic capacitor, Neodymium magnet,	
Electronic	Crystal resonator, Ferrule, Seal ring	
Ornament and	Jewelry, Accessories, Wind instrument parts,	

Quality improvement

Reduction of impingement

Impingement marks decreased by half as decrease of part-on-part collision times in smooth pressurized mass flow.

Count the number of impingement marks on brass workpieces after polishing brass workpieces mixed with iron workpieces.

Centrifugal Barrel Finishing Machine





 μ m

Improvement of surface roughness

Scratches occurred in the previous process or handling can be removed in a short time and any new scratches will not be generated by decrease of part-on-part collision times in smooth pressurized mass flow. Best suited for hard and fragile workpieces in particular.

Shape	Centrifugal Barrel Finishing Machine	Mighty ·Mill	
0			
Bearing roller	$\sqrt{Ra = 0.063 \mu m}$	Ra = 0.043	

Improvement of gloss

Compound performance will be sustained by a stable pressurized

• Gloss level after polishing for 60 min. Please compare the clearness of

Mighty Mild Centrifugal Barrel Finishing Machine

1.2 to 2 times in gloss value

Excellent in polishing inner corners and burrs on the inner edges

Abrasive media hit and grind easily the inner edges in stable pressurized mass flow.

 Comparison of radiusing amount (comparison with amount of outer radiusing being 100)

Shape		Centrifugal Barrel Finishing Machine Mighty-M	
Inside	Work A	Inside/Outside 75/100	Inside/Outside 88/100
Inside	Work B	Inside/Outside	Inside / Outside

Labor saving and reduction of operation errors

Improvement of usability

Improvement of visibility of barrel tub mounting/removal and machine operation



Color contrast for easy recognition to confirm mounting of barrels without fail

easy work

Large touch panel hard to make operation mistakes

clamp stopper

Reliable setup without tools

Required duration of time for mounting/ removing barrel tub and barrel lid is reduced by 75% compared to conventional ratio. *Compared to our conventional product



Lining capable of mounting / removing *Patent applied	Reliable fixing without tools
Easy clamping with one hand *Patent applied	Excellent operability with one hand
Ergonomic handle for	Reliable lock with automatic

Model	MMC5-4	
No. of barrels	4 Barrels	
Motor capacity	Turret 7.5 kW	
Wotor Capacity	Barrel 3.7 kW	
Machine size	W1565 × D1200 × H1770 mm	
Machine weight	Approx. 1400 kg (Weight included control panel)	

Rarrel tub size table

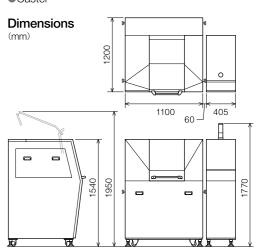
Specifications

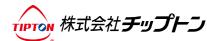
Dairei tab size table			
Capacity	Inner diameter	Inner Iength	Inner
4.7 L		200 mm	
3.8 L	170 mm (Hexagon)	160 mm	
2.9 L		120 mm	
2 L		80 mm	Inn

 Function of automatic correction of revolution during polishing operation

•Function of multistep speed operation

- •Function of fixed-position stop upon barrel mounting / removing work
- Detective sensor for barrel blown-off
- Caster





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Note) The above effects may not be always achieved at the same time.

Fishing rod parts, Glass beads