

Drag-Finish



Tipton's Drag Finisher 1st machine
made in 1977



DF100

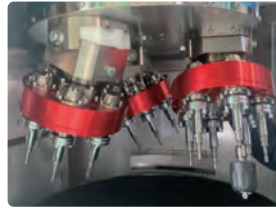
Achievements of over 40 years!

Full model change of Drag Finish in response to user's voice

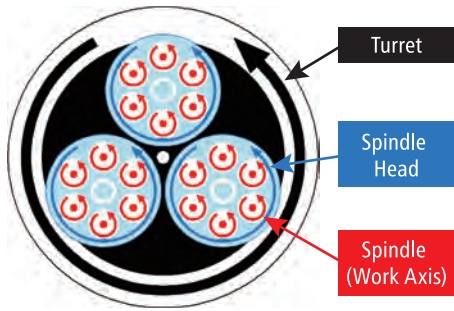
Mirror finish without scratches, achieving Ra <0.005 μm with special media.

Feature

- 6 degrees of parts axis tilt + forward / reverse rotation.
- Rotation speed up / down by 50%, high speed reversal is possible.
- Detachable drill chuck setup outside of the machine.
- Index train automatic stop + brake motor.
- Built-in dust collector, lining in barrel tank. (for dry type)
- Multi-speed program operation on touch panel.
- Customize with a variety of options and requests.



Structure / Principle



When the turret rotates once, the spindle head rotates 3 times and the spindle rotates 9 times.

The spindle head is rotated by the dedicated motor that can be further accelerated or decelerated.

Polishing is performed by submerging the parts axis in the barrel tank and spinning it from low speed to high speed with forward and reverse.

Application

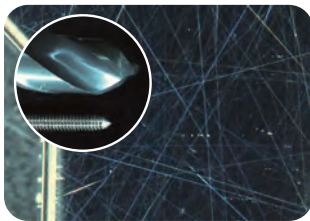
- Carbide tool Radiusing & Droplet Removal.
 - Cutting tool Mirror finishing.
 - Artificial joint Surface finishing.
 - Precision parts Mirror finishing.
 - Metal parts Smooth to Mirror finish.
 - 3D printer molded products Surface finish.
- etc.

Processing Example

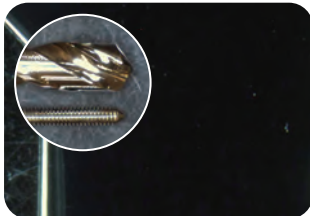
Mirror Finishing

Tool's Edge Radiusing

Before



After



Ra<0.005μm,
Gloss over1000

Chipping eliminating

Media



SMD



3P-N

SMD

Application: Super mirror polishing
Size: #5~60

3P-N

Application: Micro finishing•Luster finishing
Number: 6~20

*Custom prototype are also available.

Specifications

Model	Footprint	Overall Height	Barrel Capacity	Parts Axis	Chuck Type	Weight
DF100	1450mm×1300mm	2650mm	Approx.160L	6axes×3base=18axes	Keyless drill chucks 0.8mm~10.0mm	Approx.1700kg



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