Tipton Corp.

Gyro Finishers

ジャイロ研磨機

GS-100

The most powerful finishing performance
among barrel finishing machines.
From deburring to gloss finishing with polishing media.

What is Gyro Finisher

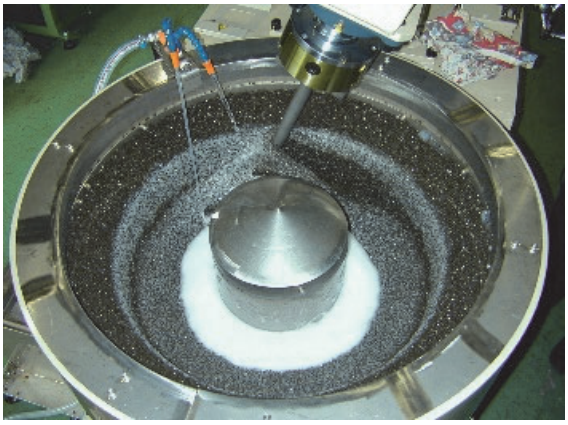
Cylindrical finishing tub loaded with abrasive media, water and compound rotates, which generates densed and stiff finishing layers by centrifugal force.Workpiece fixed with spindle is inserted into finishing layers, which will generate high-efficient and effective finishing action by difference of relative motion with abrasive media, wide range of finishing purpose from rough finishing to gloss finishing can be achieved by means of control of finishing condition.

Features

- ●Wide range of finishing purpose such as deburring, gloss finish, surface smoothing and so on can be achieved with polishing media.
- ●Wear of abrasive media is quite less compared to its finishing performance.
- ●Easy to make automatic continuous operation, compared to other types of barrel finishing machines.
- ●High quality finish with no chipping can be achieved by means of fixture with each workpiece.
- ●Waste water is significantly reduced by means of recycle use of compound solution.

Structure

Consisting of cylindrically shaped finishing tub and independent workpiece axis, workpiece is inserted into finishing tub rotating clockwise and counterclockwise to be finished. It is the key to design the fixture appropriate to finishing purpose, considering the machine structure especially in case of dedicated machine such as Gyro Finisher, Recipro, High Spin finisher and Brushing machines. Compound solution is supplied from recycle tank.



Effectiveness

<Example> Gear

- ●Improvement of surface pressure strength.
- ●Improvement of wear resistance.
- ●Improvement of tooth surface strength.
- ●Coefficient of friction becomes very low and friction heat generated also decreased.
- ●As wear of contact surface is significantly reduced, dirt and deterioration of lubricating oil can be reduced.

Finishing test of large workpiece is available

Large Gyro Finisher: GS-700

Experience by Gyro Finisher

- ●Gears
- ●Turbine Blade
- ●Crankshaft
- ●Rotor
- ●Steering Shaft
- ●Cylinder

Specifications of GS Model

Model	Footprint	Overall Height	Barrel Tub Capacity	Barrel Tub Dimension	Max. Workpiece
GS-100	1500mm×1820mm	2070mm	100L	ϕ774mm×400mm (Depth)	ϕ400mm
GS-700	3000mm×2500mm	2900mm	700L	ϕ1410mm×550mm(Depth)	ϕ1000mm

※No standard model but dedicated model only depending on workpiece.

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