

Centrifugal Finishing Machine

**Fine finishing
Ra value
improvement
upto 0.05 μm**

Heavy Deburring

**Finishing of
light weight
components**

About Gala

- Experience of 2 decades
- Over 4000 systems working satisfactory in India and abroad
- Database of 10,000 plus applications
- 24X7 service helpline
- Focus on innovations & research
- 2000 sq feet for R & D process lab
- 40% repeat orders

Centrifugal Finishing Machine

Models available from 20 to 200 litres capacity



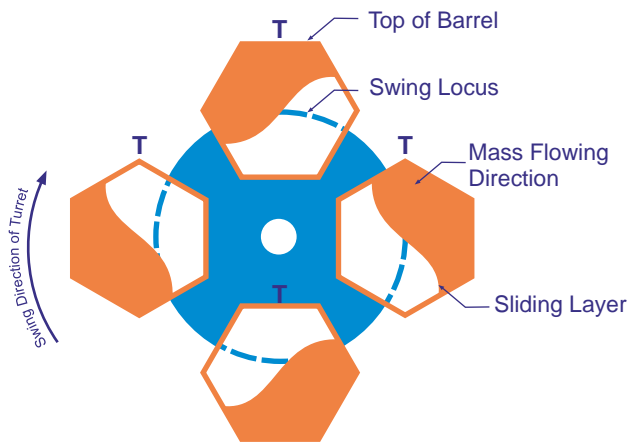
Variable Frequency Drive & Vibratory Separation Trolley arrangement are part of standard accessories for models 40 litres & above.

Machine Application Table

Application	Approximate Processing Time in Minutes		
	CFM	VFM	RB
Removing burrs from press part	10	45	180
Removing traces of file	25	100	300
Aluminum die casting finishing	8	30	120
Burr removal after milling	30	N.P	N.P
Removing burrs from gears	25	N.P	N.P
Scales removal	8	60	300
Burnishing after heat treatment	15	90	400
Bright Finishing	20	60	420
Burnishing thin sticky products	25	N.P	N.P

Working Principle

Centrifugal Finishing Machine is composed of number of barrels mounted on the periphery of turret. The turret rotates at high revolution per minute (RPM) in one direction while the barrels are rotated in the opposite direction. Parts to be deburred and finished are placed in each of the barrels, normally together with media, water and some form of compound.



Action within a Centrifugal Barrel System

Turret rotation creates a high centrifugal force of up to 50 times earth gravity, thus compacting the load within the drums into a tight mass.

The counter rotation of the barrel causes activity of this tightly packed mass. The media slides against the parts being processed, removing burrs and improving surfaces. The abrading action during the high centrifugal force results in a very short process cycle.

The inclined axis barrel rotation generates unique SUPER-EIGHT motions, which causes additional rubbing and polishing effect.

Advantages

Burnishing and Mirror-like finishing

The raw steel with roughness of 10 micron can be improved to 0.5 micron in 30-60 minutes, while the conventional burnishing and lustering can be obtained in 15-30 minutes.

Heavy Deburring

Take 20-30 minutes for major deburring, descaling of black skin of casting and forging, finishing of tiny parts. The cutting action is similar to center less grinder.

Elimination of Entanglement and Distortion

No distortion found in thin plates (up to 0.4mm thick). Small thin flat parts, which easily stick to each other and used to be impossible to process can be perfectly processed e.g. valve reeds etc.

Consistency and Uniformity

Once the processing parameters are set the consisted results are obtained making this equipment suitable for mass finishing.

Examples of Proven Applications



Accessories



Dryer



Vibratory Separation Trolley



Water Filtration & Recirculation System

Mass Finishing Product Range

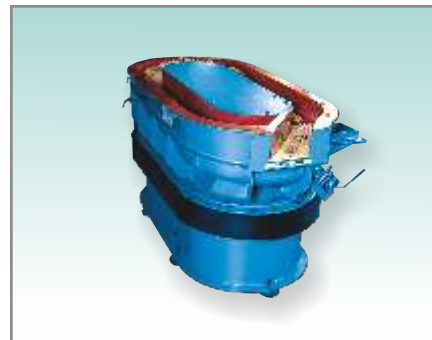
Trough Vibrators



Round Tube Vibrators
(with/without Separation Facility)



Spiral Vibrator



Elliptical Vibrator



Gala Precision Engineering Private Limited

A-59, Road No. 10, Wagle Industrial Estate, Thane - 400 604. INDIA.

Tel.: 0091-22-4141 0470, 2582 1232, 2580 0252.

Fax: 0091-22-2582 0771 Email: massfinishing@galagroup.com

Website: www.galagroup.com

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