



Deburring & Finishing Systems



Experience of more than **25** years

Over **5000** systems working satisfactorily in India and abroad

Database of **10,000+** applications

24 X 7 service helpline

5000 sq feet for R&D process lab

40% repeat orders

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About Gala

Gala Precision Engineering is a vibrant organization with a young team. We follow principles of Entrepreneurial Professionalism and serve Global markets.

The Company is a leader in Disc Springs, Assemblies and Surface Engineering Solutions in India.

The Company designs and manufactures Integrated Systems for Mass Finishing, Washing & Cleaning for a wide variety of applications in automotive, defense, general engineering and consumer goods segments.

Automated Finishing Systems

Our pursuit to provide surface engineering solutions tailored to suit the ever increasing demands of modern manufacturing environment has driven us from manufacturing standardized machines to providing customized solutions.

Wide range of accessories can be integrated and automated to offer completely integrated finishing solution for consistent quality.



Auto Loading, Vibratory Deburring,
Washing & Drying





Vibratory Finishing,
Washing & Rust Prevention



Drag Grinding and Finishing System
(Suitable for heavy / delicate parts)



Auto Loading, Vibratory Polishing,
Unloading, Weighing & Packing



Applications



Applications



Applications



Applications



Vibratory Finishing Machines

Working Principle

The basic machine comprises of a metallic bowl which is lined inside with polyurethane(PU). The bowl is loaded with media, compounds and components.

In the centre of the bowl special heavy duty vibratory motor having eccentric weights on both ends of the shaft is mounted to generate powerful spiral motion. This creates a continuous relative motion between media & components, and required finishing results are achieved.

These machine can further be customized using a whole range of accessories to suit various production needs. Various levels of automation can be incorporated to give a completely integrated automated mass finishing system.



VB AS SERIES (Separation with advanced direction)

Model	Total Volume (Litres)	Outer Diameter (mm)	Chamber width (mm)	Power (HP X RPM)
VB 385	385	1370	360	2 X 1440
VB 700	700	1850	520	5 X 1440
VB 1000	1000	1855	525	7.5 X 1440
VB 1250	1260	2120	580	10 X 1440

PU Lining Thickness upto VB 700-10 mm & for above models 15 mm



VB RD SERIES (Separation with reverse direction)

Model	Total Volume (Litres)	Outer Diameter (mm)	Chamber width (mm)	Power (HP X RPM)
VB 80	80	838	200	0.5 X 1440
VB 125	125	1016	230	1 X 1440
VB 200	200	1170	270	1.5 X 1440

PU Lining Thickness- 10 mm

VB BB RD SERIES (Separation with reverse direction)

Model	Total Volume (Litres)	Outer Diameter (mm)	Chamber width (mm)	Power (HP X RPM)
VB 80	80	838	200	1 X 1440
VB 125	125	1016	230	1.5 X 1440
VB 200	200	1250	300	2 X 1440

BB - With Ball Burnishing

PU Lining Thickness- 10 mm



VB STD. SERIES (Without Separation)

Model	Total Volume (Litres)	Outer Diameter (mm)	Chamber width (mm)	Power (HP X RPM)
VB-70	70	838	200	0.5 X 1440
VB-130	130	1016	230	1 X 1440
VB-225	225	1170	270	1.5 X 1440
VB-335	335	1330	335	2 X 1440
VB-455	455	1412	420	2.5 X 1440
VB-600	600	1622	510	5 X 960
VB-800	600	1622	510	7.5 X 960
VB-1020	1020	1880	525	10 X 1440
VB-1500	1500	2136	610	10 X 1440

PU Lining Thickness upto VB 800-10 mm & for above models 15 mm

VB STD. BB SERIES (Without Separation)

Model	Total Volume (Litres)	Outer Diameter (mm)	Chamber width (mm)	Power (HP X RPM)
VB-70 BB	70	838	200	1 X 1440
VB-130 BB	130	1016	230	1.5 X 1440
VB-210 BB	200	1170	260	2 X 1440

BB - With Ball Burnishing

PU Lining Thickness- 10 mm



SPIRAL VIBRATORS (For 100% Separation)

Model	Total Volume (Litres)	Outer Diameter (mm)	Chamber width (mm)	Power (HP X RPM)
VS 120	100	1128	235	1 X 1440
VS 300	290	1300	285	2 X 1440
VS 500	490	1536	315	5 X 1440
VS 800	830	1802	422	10 X 1440

PU Lining Thickness- 10 mm



VIBRO- DRIER (For stain free drying of components)

Model	Outer Diameter (mm)	Chamber (mm)	Power (HP)	Heater Capacity (kw)
VD 60	846	200	0.25	1
VD 120	1018	242	1	1
VD 180	1174	290	1.5	2
VD 250	1416	330	2	3
VD 325	1404	414	2	3
VD 625	1550	502	5	4
VD 1200	2140	640	7.5	6

PU Lining - Hot casted Polyurethane Lining with 80-85 Shore hardness
Dimensions are for reference only. Subject to change.

Trough Vibrators

(Suitable for large & heavy components)

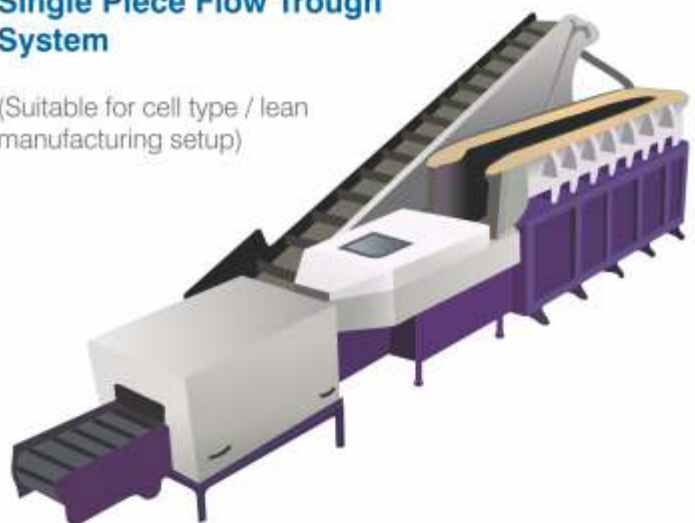
Trough machines are suitable to process large size parts, particularly long parts like shafts, axles, barrels, etc. These machines are also used to polish tiles. This is possible due to rectangular shape of the machine.



Model	Power (HP)	Chamber Width (mm)	Chamber Height (mm)	Length (mm)
VT 100	1.5	360	440	700
VT 250	2.5	580	480	1250
VT 325	3.5	550	600	1400
VT 625	7.5	575	730	1700
VT 1200	10	860	950	1700

Single Piece Flow Trough System

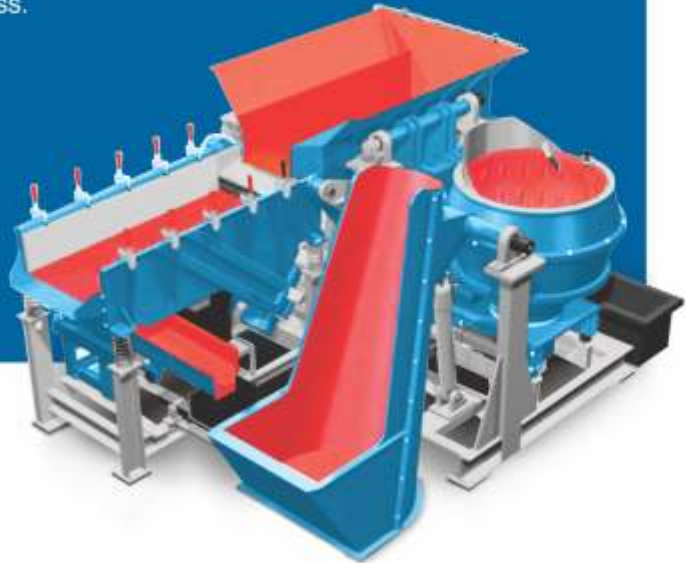
(Suitable for cell type / lean manufacturing setup)



Disc Finishing System

Disc Finishers have a high speed rotating disc mechanism, offering high energy action. This provides performance levels up to 10 times higher than conventional vibratory machines. Gala offers standard as well as completely automated and integrated solutions for disc finishing. This system includes auto component weighing, loading, unloading, on line washing & drying.

Complete automation of disc finishing is possible. Parts can be loaded with automatic loading system. After completion of process the machine is tilted to unload media and components onto the separation system (Screening). Media is loaded in the machine with inbuilt loading system. Automatic Chemical dosing system can be provided. PLC based control panel enables complete automation of the process.



Semi Automatic Machines

- Range from 40 to 400 ltrs
- Separation unit for Parts & Media

Standard Machines

- Range from 40 to 400 ltrs
- Bowl Tilting - Manual / Motorised



Centrifugal Barrel Finishing Machines



CFM 40



CFM 300

Product Range and Specifications

Model	Total volume (Litres)	Barrels (Nos.)	Motor Power (HP)	Barrel PU-Line Thickness (mm)
CFM-20	20	4	2	5
CFM-40	40	3	5	8
CFM-60	60	3	5	8
CFM-120	120	4	10	10
CFM-160	160	4	15	10
CFM-200	200	4	15	12
CFM-300	300	3	25	15

Dimensions are for reference only. Subject to change.

Waste Water Filtration and Recirculation Using Centrifuge

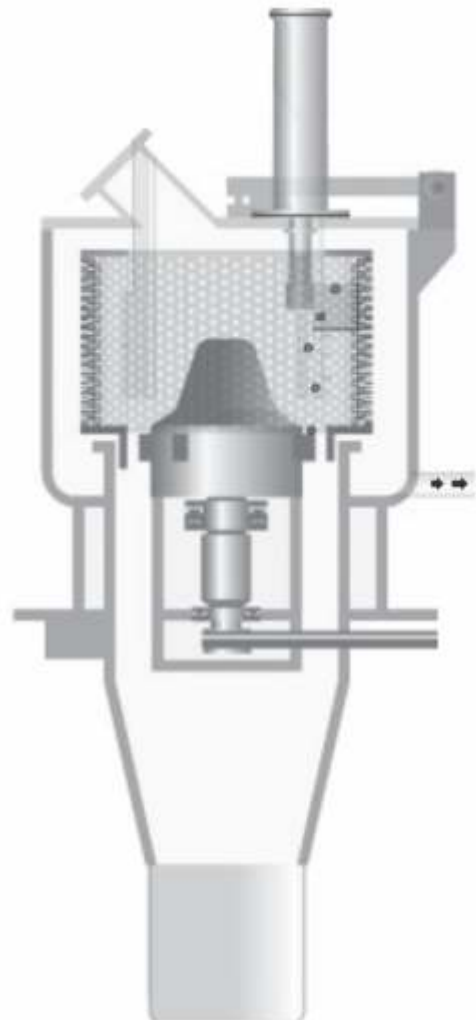
Solid particles of metal and non-metals along with oil can be removed and separated from the contaminated water used for various machining and finishing process.

The sludge of water free contamination can be removed easily.

The filtered water can be reused for further process.

Advantages:

- PLC based automated system
- No consumption of paper, filter bag
- No foundation required



Media



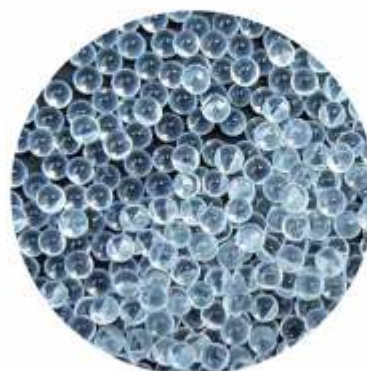
Ceramic



Porcelain



Steel



Glass



Plastic



Drying

NOTE: Ask for our detailed catalogue on consumables

Compounds

	Product Code	Application	Suitable For	Nature
Deburring, Descaling & Degreasing	GE 411 P	Heavy Cutting, Deburring, Descaling and Edge Radiusing	Ferrous	Acidic
	GE 412 P	Heavy Deburring, Descaling and Ra value improvement	Ferrous, Sintered	Acidic
	GE 801 P	Heavy Machining mark removal and Deburring	Ferrous, Alloy steel	Acidic
	GE 1012 P	Degreasing, Deburring and slight Edge Radiusing	Ferrous	Alkaline
	GE 1021 P	To be added in Alkline Deburring process	Ferrous	Alkaline
	GE 1022 P	To be added in Alkline Deburring process	Aluminium, Ferrous	Alkaline
	GE 211 L	Descaling, Derusting and Smoothening	Ferrous	Acidic
	GE 214 L	Derusting and Descaling	Ferrous	Acidic
	GE 432 L	Degreasing	Non Ferrous	Alkaline
	GE 433 L	Pickling, Descaling and Deburring	Non Ferrous, Stainless Steel	Acidic
	GE 10 DP	Degreasing / Deoiling	Mild steel , stainless Steel	Alkaline
	GE 802 L	Deburring	Mild Steel	Alkaline
	GE 10 M	Degreasing	Mild steel , Stainless Steel	Acidic
Polishing	GE 641 L	Mild Deburring and Polishing	Ferrous, Non Ferrous	Mild Acidic
	GE 513 P	Ra Value Improvement and Polishing	Ferrous	Alkaline
	GE 512 L	Mild Deburring and Polishing	Ferrous	Alkaline
	GE 101 L	Polishing and Mild Deburring	Ferrous, Stainless steel, Non Ferrous, Plastic	Mild Acidic
	GE 612 L	Polishing and Mirror Finishing	Ferrous, Alloy Steel	Alkaline
	GE 10 SF	Polishing and Burnishing	Ferrous, Stainless Steel	Alkaline
	GE 661 L	Polishing and Mirror Finishing	Silver, Non Ferrous	Alkaline
	GE 361 L	Polishing	Stainless Steel	Acidic
	GE 622 L	Polishing	Aluminium , Mazak	Alkaline
	GE 623 L	Polishing	Aluminium , Mazak	Alkaline
Rust Preventive	GE 713 L	Rust Preventive	Ferrous	Alkaline
	GE 10 RP	Rust Preventive	Ferrous	Alkaline
	GE 434 L	Anti oxidising solution	Non Ferrous	Alkaline
Brightening	GE 11 L	Degreasing and Brightening	Aluminium, Stainless Steel	Acidic
	GE 18 L	Brightening	Aluminium	Acidic

NOTE: Packing Lot: Powder - 50 Kgs, Liquid - 30 Ltr

Clientele

Aerospace and Defense



Engine Factory, Avadi
Heavy Vehicle Factory, Avadi
Ordnance Factory Chanda, Chandrapur
Small Arms Factory, Kanpur
Ordnance Equipment Factory, Kanpur
Small Arm Factory, Kanpur
Ordnance Factory, Kanpur
Ordnance Factory Dum Dum, Kolkata
Gun&shell Factory, Kolkata
Ordnance Factory Project Korwa, Korwa
Ordnance Factory, Varangaon
Ammunition Factory, Pune



Automotive



Precision Engineering



Consumer Products





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