

Industrial Parts Washing & Cleaning

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 segments.

As a result of decades of experience, Gala is able to respond to the special requirements of our clients. Innovative systems are designed & developed together with the client and are customized to their requirements. Different modules can be integrated into our systems as processing stations.

Our Advantages

- Compact machines with latest technology
- Application base approach to offer customised systems
- New generation cleaning compounds
- All India service support

Infrastructure

Corporate office at (Thane)
Mumbai, India

Well established factory near
Mumbai, India on 28000 Sq mt
of land

Specialised Surface Engineering
Division on 1858 Sq mt area

High skilled workforce

R&D and Test Lab

Best in class R&D lab for sample
testing, developing new solutions,
process standardization and
improvement and technology
innovations

Millipore test facility

Ra Value measurement

Hardness testing

Chemical testing

5000 Sqft area for R&D

Advanced Designing on CAD/CAM systems

Advanced Product Design &
Manufacturing for quality
machineries and finishing
output of global standard

FMEA/FEA tools

AutoCAD version

Solid modeling version

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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

Applications

Aerospace



Defense



Automotive



Applications

Precision Engineering

Chain Parts



Bearings



Springs



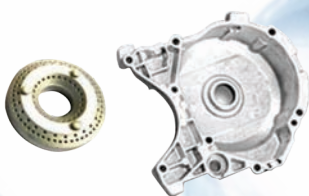
Tools



Compressor Parts



Die Cast Part



Precision Machined Parts



Textile Machine Parts



Gear & Sprockets



Fasteners



Applications

Precision Engineering

Jewelry & Watch Parts



Hydraulic Parts



Pumps & Valves



Surgical Parts



Optical



Spray Cleaning

Rotary Basket (Top Loading)

Features

- Continuous rotation during spray cleaning
- Spray from top & bottom side
- Manual front door with gas springs
- Rotation arrangement from side hence no obstruction in bottom for cleaning
- SS mesh and micron bag filter provided

Optional

- Pneumatically operated lid
- Mist collector
- PLC based control panel



Rotary Table Type Cleaning System (Top Loading)

Model	GCT 1	GCT 2	GCT 3
Basket Size (Ø mm)	600	900	1200
Max. Part Height (mm)	300	350	350
Max. Load (Kg.)	150	250	350
Washing Storage Tank (L)	350	450	500
Washing Pressure (Bar)	3	4	5

Dimensions are for reference only and subject to change*

Rotary Basket (Front Loading)

Features

- Pneumatically operated front door
- Suitable for medium size parts
- Robust design

Optional

- Multi-level filtration
- Rinse tank
- Hot air drying



Rotary Table Type Cleaning system (Front Loading)

Model	GCF 1	GCF 2	GCF 3	GCF 4
Basket Size (Ø mm)	700	1000	1300	1600
Max. Part Height (mm)	450	500	550	600
Max. Load (Kg.)	300	350	350	400
Washing Storage Tank (L)	300	400	500	600
Washing Pressure (Bar)	3	5	5	5

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Spray Cleaning

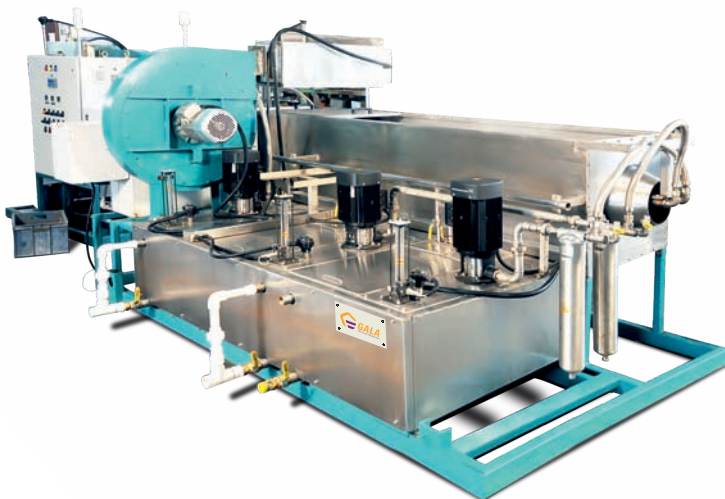
Conveyorised Spray Washing

Features

- Separate zone for washing and rinsing
- All wet parts in stainless steel SS 304 or 316
- Hot air drying

System Configuration

- In-line continuous cleaning with separate wash/ rinse/dry zones
- Option of separate entry, exit and return conveyors
- Mist collection
- Inbuilt filtration and recirculation



Cylindrical Rotary Screw Spray

Features

- Cleaning & Rinsing - Spray Type
- In-line Continuous cleaning
- High production rate
- Multiprocess cleaning zones
- Suitable for fasteners, valves, tubes, bearing parts etc
- Hot air drying
- All wet parts in stainless steel 304 or 316

Optional

- Automatic loading and unloading
- Vapour extraction unit
- Oil skimmer
- Filtration and recirculation of cleaning media
- PLC based control panel

Ultrasonic Cleaning

Table Top Ultrasonic

Features

- 100% stainless steel construction, including mesh basket, top lid, etc
- Digital or Analog Control Panel
- Standard sizes available – upto 50 ltrs
- Compact and light weight machine
- Stainless steel
- Temperature & time controller

Optional

- Filtration and recirculation in bigger models
- Oil skimmer



Multi Stage Ultrasonic

Features

- Multiwash, Rinse, Drying & Rust preventive application
- PLC based control
- Simultaneous treatment of parts in various chambers
- Flexibility in washing programmes

Optional

- Immersion, Spray, Flood Wash cycles
- Automatic material handling system
- Basket Rotation and Dunking
- Water filtration and Recirculation
- Oil Skimmer
- Hot Air Drying

Single Chamber Multiprocess Cleaning

Aqueous Based

Single Chamber Multi Processor (SCMP)

Features

- Ultrasonic cleaning with immersed flood wash
- Multiple programs as per need
- Basket rotation
- Multi stage filtration
- Washing / Rinsing / Drying in a single chamber
- Programmed sequences
- Compact machine with multiple cleaning options
- PLC based control panel



Optional

- Vacuum drying
- Auto dosing of water and chemicals

Standard Models

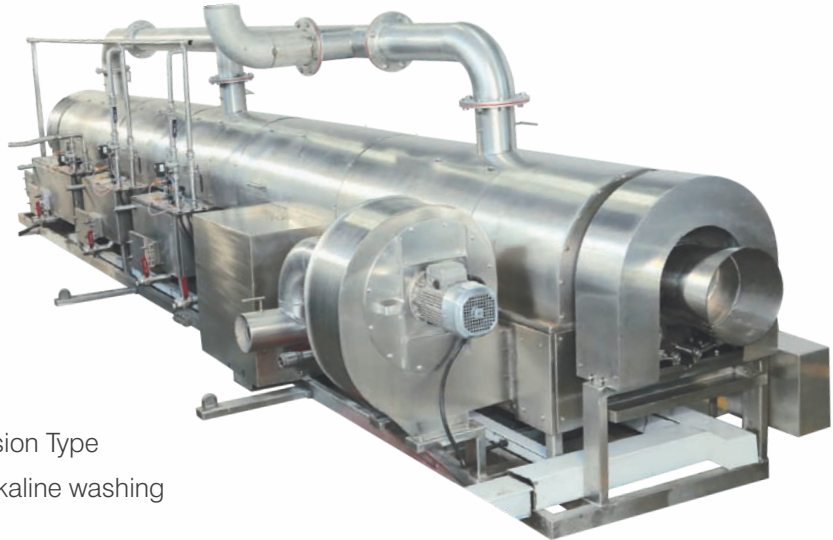
Model	Basket Sizes (mm)	Max Load (Kg)	Throughput
Aqueous 1	380 X 220 X 200	50	7 min / batch
Aqueous 2	530 X 320 X 200	80	10 min / batch
Aqueous 3	1000 X 455 X 400	200	15 min / batch
Aqueous 4	1250 X 850 X 500	350	18 min / batch

Note : Customised machines also can be offered.
Dimensions are for reference only and subject to change*

Customised Cleaning Machines

Cylindrical Screw Feed Cleaning

Immersion Type



Features

- Cleaning & Rinsing - Immersion Type
- Option of Acid pickling or Alkaline washing
- In-line continuous cleaning
- High production rate
- Multiprocess cleaning zones
- Suitable for fasteners, valves, tubes, bearing parts, etc
- Hot air drying zone
- All wet parts in stainless steel

Optional

- Automatic loading and unloading
- Vapour extraction unit
- Filtration and recirculation of cleaning media
- PLC based control panel

Indexing Type Rotary Spray Washing

Features

- Separate zone for washing, rinsing and drying
- Auto indexing mechanism
- All wet parts in stainless steel SS 304 or 316
- Fully automatic process

System Configuration

- Rotary indexing work station
- Inbuilt filtration and recirculation
- Mist collector



Water based Alkaline and Neutral compounds

Customised Cleaning Machines

Single Piece Flow Conveyorised Ultrasonic Cleaning

Features:-

- Washing / Rinsing / Air Blow/ Hot Air Drying
- Suitable for swash plate, piston rod, Alu Flange etc

Optional

- Inbuilt filtration system
- Interlock for loading and unloading of parts
- PLC based control system



Cabinet Type Spray Cleaning

Features

- Washing | Rinsing | Drying
- Suitable for small parts

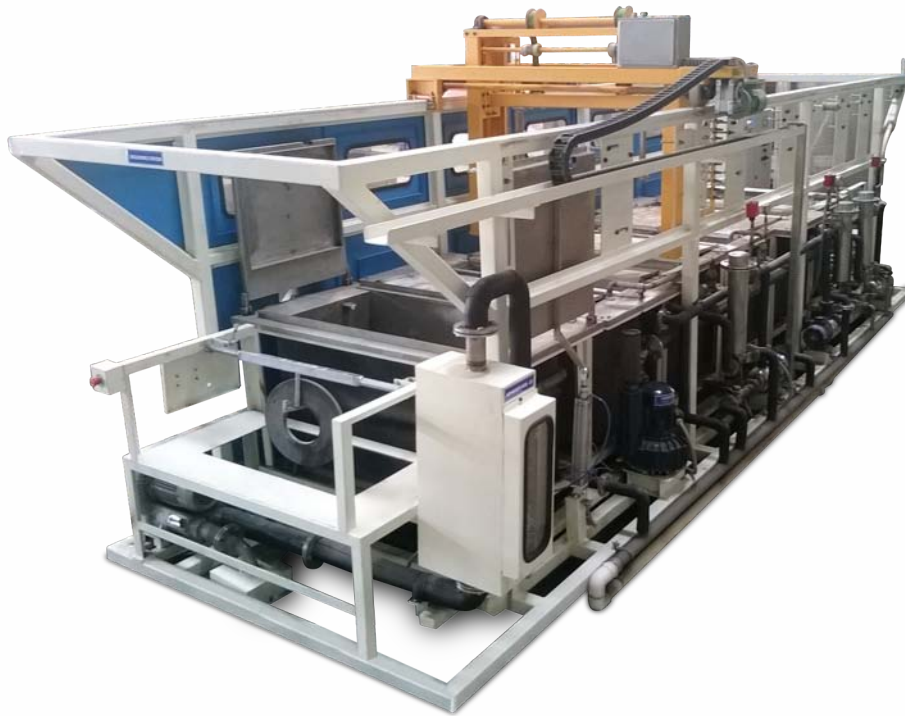
Optional

- Multilevel filtration
- PLC based Panel



Phosphating and Pre-treatment Plants

Automatic Pre-treatment & Passivation Plants



Standard Features

- Sturdy construction with thick thermal Insulation
- Heavy duty stainless steel component Basket – standard range
- Component holding jigs also available
- Fully independent fluid tanks
- Low fluid level protection
- Digital display fluid temperature control
- Integral fluid filtration network
- Electric heating
- Load/unload station
- Auto fresh water refill in rinse tanks
- PLC controlled.

Optional

- Hot wash, rinse, air knife & dry cycles to suit application
- Disc type oil skimmer (Oil separation mechanism)
- Fine inline fluid particle filtration
- Oil/water separator units (Insoluble oils)
- Effluent transfer pump
- Steam extraction fan & steam condenser units
- Auto dosing units
- DI water plant

Compounds for Parts Cleaning

Aqueous cleaning compounds are widely used for various industrial parts cleaning processes. These compounds can be used in Spray cleaning, Ultrasonic cleaning and Immersion cleaning methods.

Selection of cleaning compound is based on following

- Cleaning process - Immersion, Spray, Ultrasonic
- Variables - process time, temperature, pressure
- Part size and complexity of geometry
- Required cleanliness level
- Part material - ferrous, non ferrous
- Nature of contamination
- Safety norms

We offer following cleaning compounds

- Degreasing
- Cleaning and descaling
- Brightening

	Product Code	Application	Suitable For	Nature
Degreasing	GEW 1101 L	Degreasing -Spray and immersion	Ferrous, Non Ferrous	Acidic
	GEW 1201 L	Heavy Duty Degreaser for Ultrasonic / immersion method before plating	Ferrous, Non Ferrous	Alkaline
	GEW 1221 L	Heavy Duty Degreaser works at room temperature for Aluminium components	Aluminum	Alkaline
	GEW 1202 L	Heavy duty Degreaser for Ultrasonic and immersion method specially suitable for imitation jewellery	Ferrous, Non Ferrous, Imitation Jewelry	Alkaline
	GEW 2260 L	Alkaline solution to clean galvanized steel immersion & ultrasonic	Galvanized steel	Alkaline
	GEW 913 P	Alkaline degreasing compound suitable for cleaning oil, grease, soil.Immersion & ultrasonic	Iron and steel surfaces	Alkaline
Cleaning & Descaling	GEW 2021	Non Caustic no silicate cleaner for zinc and zinc alloy	Zinc & Zinc Alloy	Neutral
	GEW 2211	Online Spray cleaner specially for MS	Ferrous	Alkaline
	GEW 2121 L	Mild Acidic Ultrasonic cleaner to clean buffing paste and enhance shining for SS articles	Non Ferrous (SS)	Acidic
	GEW 2122 L	Descaling solution for Copper - Silver brazed parts	Copper, Silver	Acidic
	GEW 2142 L	Mild Acidic solution to clean / descale Aluminum die cast component prior to powder coating	Aluminum	Acidic
	GEW 2131 L	Cleaning of oil and scale from metal surface	Steel Parts	Acidic
	GEW 2201 L	Cleaning of machine oil, cutting oil residue or shop oil.	Ferrous and Non Ferrous	Alkaline
	GEW 2220L	Cleaning of oil, dust, dirt and loose burr from surface (Aluminium, Copper, Brass)	Non ferrous	Alkaline
	GEW 2210 L	Degreasing / Cleaning of oil, dust, dirt and loose burr from surface	Ferrous	Highly Alkaline
	GEW 311 L	Remove rust from surface	Ferrous	Acidic
	GEW 2000L	Cleaning liquid to clean oil,shops oil and carbonaceous deposits	Ferrous and Non Ferrous	Neutral
	GEW 5141 L	Bright Surface finish of Aluminum component	Aluminum	Acidic
Brightening	GEW 2123L	Cleaning of oil ,dust and bright the surface	Aluminium	Acidic
	GEW 2250 L	Alkaline solution to clean plastic bins	Plastic bins	Alkaline



We also offer high end compounds from **DST-CHEMICALS**, Denmark for descaling, degreasing and rust removing applications. These compounds are environment friendly and offers following benefits.

Dimensions are for reference only and subject to change*

Clientele



Ordnance Factory, Varangaon
Ammunition Factory, Pune





Inquiry

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