



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.



For Deburring, Finishing, Washing and Cleaning

Experience of more than 25 years

5000 systems working satisfactorily in India and abroad

Database of 10,000 + applications

40% repeat orders

Ammunition Factory, Pune Bharat Heavy Electricals Ltd - Haridwar, **Hyderabad**

Bharat Electronics Limited, Bangalore Bharat Dynamics Ltd, Hyderabad Bhabha Atomic Research Centre, Mysore Hindustan Aeronautics Ltd - Bangalore, Koraput **Howell Munitions & Technology Inc, USA** Ordnance Factory - Kanpur, Kolkata, Varangaon **Royal Metal Industries LLC, USA** Small Arm Factory, Kanpur

Defense Applications

Ammunition - Small Arms















Ammunition - Light Weapons and Tanks











Machined Parts of Small Arms













Precision Machined Parts













Engine and Transmissions Parts











Surface Engineering Solutions for **Ammunition – Small Arms**



Vibratory Finishing System

Features

- Fully automatic process
- · Auto loading, unloading
- · Compact design

System Configuration

- · Component loading
- Auto dosing
- Vibratory finishing
- · Hot air drying
- Effluent treatment

Degreasing, Pickling and Passivation





Before

After

Media used





















Degreasing and Drying





Before

After

Cylindrical Rotary Screw Spray Cleaning

Spray Type

Features

- · Cleaning & rinsing Spray type
- · In-line continuous cleaning
- High production rate upto 1250 kg/hr
- Multiprocess cleaning zones
- Suitable for ferrous and non-ferrous parts
- Hot air drying
- All wet parts in stainless steel 304 or 316

System Configuration

- · Automatic loading and unloading
- Vapour extraction unit
- Oil skimmer
- · Inbuilt filtration and recirculation
- PLC based control panel









Surface Engineering Solutions for **Ammunition – Light Weapons**





Degreasing and Drying





Before

After

MultiStage Ultrasonic Cleaning

Features

- · Multiwash, rinse, drying & passivation
- PLC based control
- · Simultaneous treatment of parts in various chambers
- Flexibility in washing programmes

System Configuration

- · Immersion, spray, flood wash cycles
- Automatic material handling system
- · Basket rotation and dunking
- · Water filteration and recirculation
- Oil skimmer
- · Hot air drying













Degreasing, Pickling and Drying







After





Cylindrical Screw Feed Degreasing / Pickling

Immersion Type

Features

- High production rate upto 1250 kg/hr
- Fully automatic continuous process
- · All wet parts in stainless steel SS 304 or 316

System Configuration

- · Rotary screw conveyor
- · Separate stages for washing, rinsing and drying
- Scrubber system for pickler







Degreasing and Drying







After

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







Degreasing and Drying







After

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







Surface Engineering Solutions for **Ammunition - Tanks**



Special Purpose Polishing System

Features

- · Auto feeding of components
- · Fully automatic process
- Dust collection arrangement

System Configuration

- · Indexing mechanism for loading and unloading polishing stages
- Separate head for inside and outside polishing

Grinding and Polishing



Buffing Wheel used





Surface Treatment of Machined Parts



Phosphating Plant

Features

- Suitable for manganese, zinc and iron phosphating
- Fully automatic process
- · PLC based control panel

System configuration

- · Automatic material handling system
- Inbuilt filtration and recirculation

Phosphating







After











Duburring and Finishing of Machined Parts



Vibratory Finishing Machine

Application

- Deburring
- Descaling
- Polishing

Batch Size: 50 to 400 Kg

Machine Volume: 50 to 1500 Ltr

Trough Vibrator

Application

- Deburring
- Polishing

Batch Size: 50 to 300 Kg

Machine Volume: 100 to 1200 Ltr













Centrifugal Barrel Finishing Machine

Application

- Descaling
- Polishing
- Superfinishing

Batch Size: 15 to 75 Kg and can be

customized upto 1500 kg

Machine Volume: Standard 40 to 300 Ltr and can be customized upto 2000 Ltr

Disc Finishing System

Application

- Deburring
- Descaling
- Polishing
- Superfinishing

Batch Size: 5 to 100 Kg

Machine Volume: 20 to 300 Ltr











Washing and Cleaning of Machined Parts



Single Chamber Multi Processor (SCMP)

Application

- Degreasing
- Rinsing
- Vacuum Drying

Capacity: 50 to 300 kgs

Work Chamber Size: 100 to 500 Ltr

Working Pressure: 3 to 15 Bar

Cabinet Type Spray Cleaning

Application

- Degreasing
- Rinsing
- Drying

Capacity: 50 to 300 kgs

Table Size: Ø 300 to Ø 1200 mm

Working Pressure: 5 to 75 Bar

















Single Piece Flow Conveyorised Ultrasonic Cleaning

Application

- Degreasing
- Rinsing
- Drying

Capacity: Customised

Single Chamber Ultrasonic

Application

- Degreasing
- Rinsing

Capacity: 50 to 1000 Ltr











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