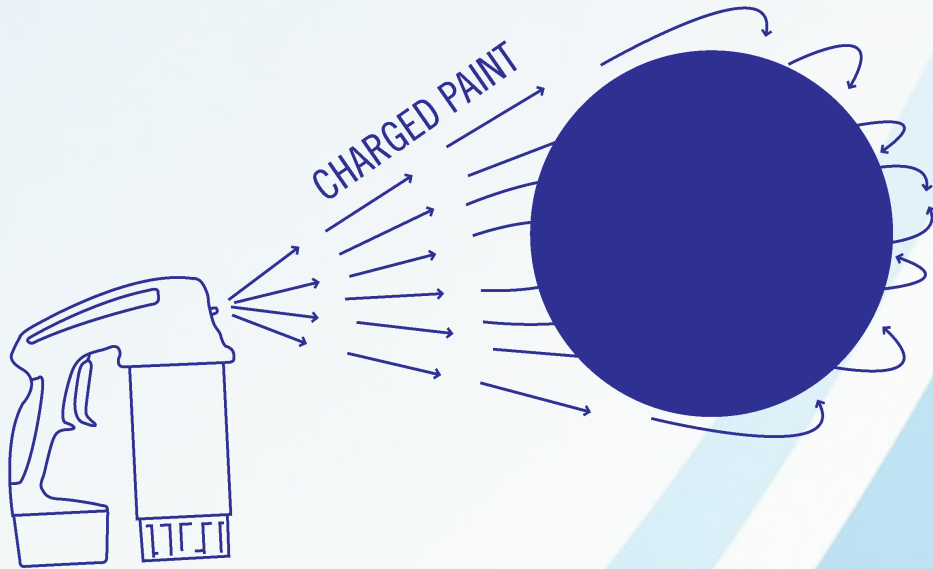




PS GLOBAL ENGINEERING PRIVATE LIMITED

ONE STOP SOLUTION FOR SURFACE FINISHING & COATING



PROCESS PLANNING

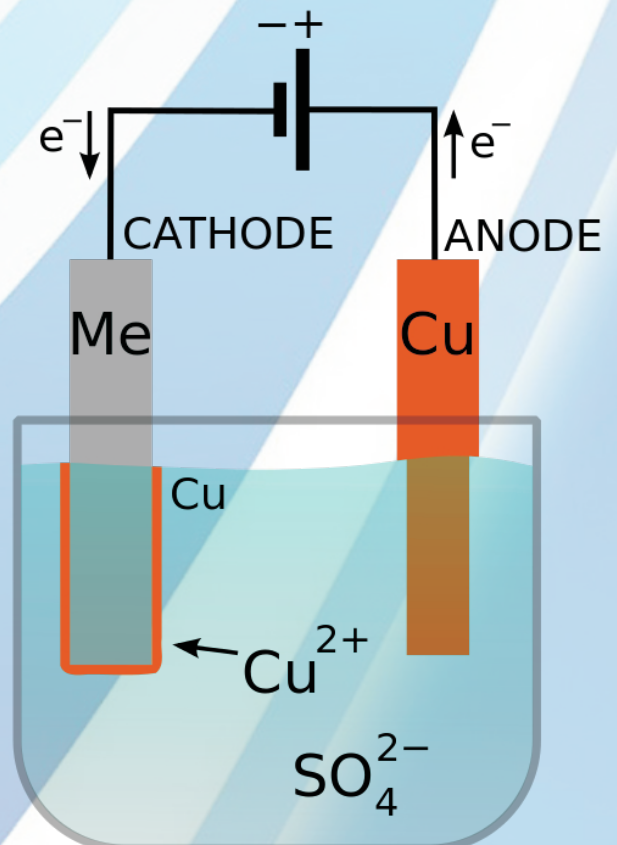
DESIGNING

MANUFACTURING

IMPLEMENTATION

AFTER SALE SUPPORTS

CUSTOMER SATISFACTION





ABOUT PS GLOBAL ENGINEERING COMPANY

PSGE born in the 2009, as a specialized Automatic Systems for Surface Finishing Process i.e. – Pre-Treatment, CED Painting, Electroplating, Liquid Painting, Powder Coating, Effluent Treatment Plant manufacturing establishment, in order to meet advance technological demands of respective fields with customization to make the system suitable for client requirements.

Company Based in North India, having corporate office cum factory at Bawal Haryana, most technologically developed city of India, basically it's a Automotive hub & has a excellent pool of highly skilled engineering resources and high quality manufacturing set-ups.

We continually strive to improve upon the quality system and enhance product quality right from procurements of Raw Materials till delivery of finish products. The Traditions of quality systems have made by us, only reason keep getting repeated orders from our esteemed customers.

PSGE speciality...starting with an empty floor, our Teams work systematically with our customers to develop a basic floor plan for their metal finishing system with required process. Entire equipments designed to meet the criteria of our customer requirements based on chemical content, Temperature and size of the parts being processed. Once that has been accomplished, system laid step by step and Metal Finishing System starts to take the form.

PSGE has a range of Metal Finishing Systems, Plant and Equipments for :

- ☑ **Pre-Treatment Line :**
Spray Conveyorised Line, Transporterised Dip Type & Semi Automatic Dip Line with Hoist Arrangement.
- ☑ **Electroplating Plant :**
Rack Type & Barrel Type ABS Plating, Zinc Plating, Nickel-Chrome Plating, Chrome Plating, Chromatising Plant, Anodizing Plant etc.
- ☑ **CED Painting Plant :**
Dip System with Transporter & Dip + Spray System with Conveyor.
- ☑ **Liquid Painting Booth :**
Side Draft Booth, Down Draft Booth, Wet on Wet 3 Coat Painting Booth, Dry-Type Booth with associated Water Circulation System, Sludge Separation System and Fresh Air Supply System.
- ☑ **Powder Coating Booth :**
Batch Type and Conveyorised Booth with Multi Cyclone recovery system.
- ☑ **Automatic Painting :**
Reciprocator System with Automatic Recovery and Paint Feed System.
- ☑ **Ovens :**
Straight, Camel Back and Batch Type Ovens for Dry-Off and Baking Application with available fuel – Gas, Diesel & Electricity.
- ☑ **Material Handling System :**
Transporter, Conveyor – Over Head Conveyor, Floor Conveyor, Belt Conveyor and Roller Conveyor etc.
- ☑ **Effluent Treatment System :**
Automatic Process integrated Plant with Primary System and Batch Type Effluent Treatment Plant.
- ☑ **Fume Exhaust System :**
Air purification System with Exhaust Blower, Scrubber Unit and Ducting.

PRE-TREATMENT LINE

Pre-Treatment process is a chemical process to remove any type of Oil, Grease and rust contamination from the surface of component. System designed according to the chemical composition and process requirements, which may be 5 Stage to 11 Stages.

PSGE provide a complete Pre-Treatment system with options of Spray Zone & Dip Zones.



Spray PT Line

Dip PT Line



ELECTROPLATING PLANT

Rack Plating Plant for Metal or Plastic Parts with modular design and high capacity with fixed or variable cycle time controlled through PLC and SCADA System.

Barrel Plating Plant, ideal for small parts that is difficult to handle with high capacity and option of Automatic Loading and Unloading.

PSGE supplies above system complete with Process Tanks (PP or Metal as suitable for stage chemicals), Material Handling Transporters, Drying Oven, Fume Exhaust System, Heating, Cooling and Air Agitation system with Coils (Titanium/SS/MS/PVC/PP), Rectifiers, Filters, Dosing System as part of complete system.



CED PAINTING PLANT

CED Painting is a method of painting which uses electrical current to deposit the paint. The process works on principle of “opposite attract” this process is also known as Electro Deposition (ED).

This system can be divide into four distinct stages – Pretreatment, Electro Coat Bath with ancillary equipments, Post Rinses and Baking Oven.

PSGE supplies above system complete with Process Tanks (PP or Metal with surface lining as suitable for stage chemicals), Material Handling system (Transporter or Conveyor), Heating, Cooling and Air Agitation system with Coils (Titanium/SS/MS/PVC/PP), Rectifiers, Anode Cell and Membrane Filters, Phosphate Sludge separation system and Dosing System as part of complete system.



LIQUID PAINTING BOOTH

A paint booth is a structure, which is designed to keep dust and other contaminants out of a painting area. Contaminants can have a major impact on the quality of a paint job, whether the paint is being applied to Surface. Using paint booths ensures that paint jobs are done quickly and in a clean environment.

The basic design of a paint booth is the same no matter what the size is. Paint booths are designed to be entirely enclosed, with provision for moving goods in and out. The air is kept pressurized with the use of fans and compression, to ensure that air is forced out of the paint booth, rather than sucked in. Most paint booths have built-in compression hoses for attaching paint nozzles to for the purpose of spray painting, or an operator can bring in a separate compression unit.

We offer a wide range of spray booth types and styles, some of which include :

- ☑ Dry filter or water wash spray booths.
- ☑ Side draft or down draft spray booths.
- ☑ Manual or automatic spray booths.
- ☑ Continuous or batch spray booths.



POWDER COATING BOOTH

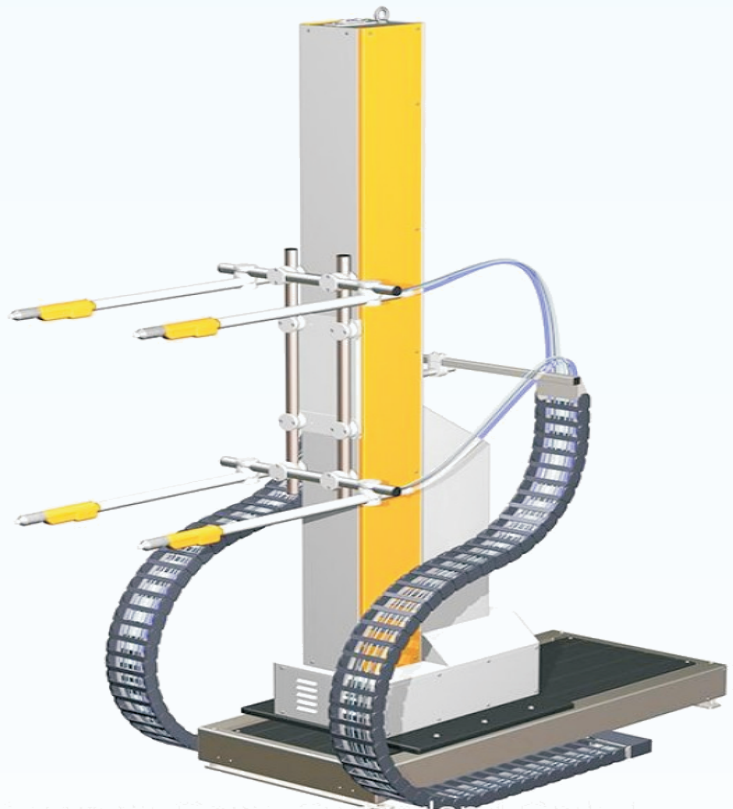
Powder coating booth is mainly divided in two categories. (i.e. Powder coating booth working area & Powder coating booth recovery unit). Powder coating booth working size depends upon the components to be coated. Powder booth Filtered Air Inlet System can be provided in the Powder-coating booth to get good (dust free) quality of powder coating. Powder coating booth can be used as batch type Powder coating process as well as Conveyorised Powder coating process. In the cyclone based powder booths, over sprayed powder get collected in the Hopper and due to high velocity-suction, it get carried to cyclone. In the cyclone, with spiral action, Powder get collected in the container and air goes out through ducting. □ This collected powder in the powder coating booth can be reused. High velocity suction is created with centrifugal fan. In this system cyclone provided are of single or twin design to achieve high efficiency of Collecting powder For proper functioning of the powder coating booth.



AUTOMATIC PAINTING

PSGE also offered Automatic Painting Reciprocators, which are designed as per the process quality standards; these spray reciprocators are suitable for meeting the varied Industrial requirements in the most promising manner.

- ☑ By means of frequency converter and PLC, two reciprocators can be real time controlled.
- ☑ Using touching keys LCD display, various sets of programs of Reciprocator movement can be edited, stored and called.
- ☑ Step less speed in movement and different speed in every sub-section.
- ☑ Smooth movement and low noise.



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Spray Reciprocators are employed for the following purpose :

- ☑ High Production Spray painting units.
- ☑ Uniform spraying paint on moving on conveyor, rotating, or stationery objects.
- ☑ Controlling variable speed with precise and smooth up & down movement of Spray Guns.

Ovens

Paint Drying Ovens, also referred to as Dryers or Paint Curing Ovens or Paint Baking Oven removes the moisture from water-based coatings and adhesives. Paint Drying Ovens are also removes water from the surface or interior of products. The arrangement of burners or heaters in a Paint Drying Oven should ensure the provision of uniform heating across the cross section and the length of the Paint Drying Oven.

Paint Drying Ovens are generally constructed out of mild steel sheets with strengthening members and supports the outside wall of Paint Drying Oven and aluminum sheets on the inside wall of Paint Drying Oven, with an adequate thickness of insulation in between.

Types of Oven – Batch type Oven, Straight type oven, Straight type Oven with Air Seal & Camel Back Oven, Camel Back Oven is always preferable as gives minimum energy loss.



MATERIAL HANDLING SYSTEMS

TRANSPORT WAGON:

This does the main executive function of Automatic system having specially components i.e.- Geared Motor, Hi –Torque Brakes, Vulkanised Wheels, Frequency controller, Lifting Belt / Chain, Proximity / Limit switches, Lift carriage guides, Heavy duty Bearings etc.

Transporters can be design different types i.e. – Skid Mounted, Portal Structure Mounted, Overhead Skid mounted, Skid Mounted Tilting Mechanism, Drip Tray Mechanism with Barrel Rotation arrangement.



CONVEYOR

The basic function of a conveyor is to carry or transport the material to different parts of the process area.

How fast the item travels, if it can be accumulated on the conveyor, and how much it costs to power the conveyor are all key differences used to decide which conveyor type should be used.

Main types of Conveyor are :

- ☑ Over Head Conveyor
- ☑ Floor Conveyor
- ☑ Slat Conveyor
- ☑ Belt Conveyor



EFFLUENT TREATMENT SYSTEM

The discharge of waste water from Pre-Treatment Plant, Plating Plant & Painting Booths are highly toxic which is harmful to the environment and Government also laid down the standard for waste water discharge.

PSGE specialized in making this custom built manual or automatic Effluent Treatment System. Consists of waste collection Tank, Feed Pump, Treatment Tanks, Dosing System, Sludge Settling Tank, Filter Press and Clear Water Tank etc.



FUME EXHAUST SYSTEM

A fume hood or fume removal system is a device used to capture hazardous chemical vapors, gases, dusts, mists and metal fumes in a work process. These systems help eliminate or lower human exposure to hazardous fumes. A fundamental safety and industrial hygiene principal is to control exposure to hazards with engineering and administrative controls before implementing personal protective equipment.

PSGE manufacture a complete line of Air and Fume handling equipment comprising of Centrifugal Fan, Mist Eliminators, Fume Scrubber, Exhaust Hoods, ducts and duct fittings made from corrosion free materials such as PVC, Polyglass, FRP Coated Thermoplastic or MS / SS etc.



OUR ESTEEMED CLIENTS :

M/s. Honda Cars India Ltd.
M/s. Mahindra Two Wheelers Ltd.
M/s. Continental Engines Ltd.
M/s. Suzuki Motorcycle India Pvt. Ltd.
M/s. Hero Moto Corp. Ltd.
M/s. Yamaha Motors India Pvt. Ltd.
M/s. Nissin Brake India Pvt. Ltd.
M/s. Roca Bathrooms Pvt. Ltd.
M/s. Jai Springs Industries Ltd.
M/s. Aman Metal Pvt. Ltd.
M/s. B.R Seth Associates
M/s. Orchid Diamond Tools Pvt. Ltd.
M/s. Komal Metal Pvt. Ltd.
M/s. Tech Hard Pvt. Ltd.
M/s. Omax Autos Ltd.
M/s. Munjal Showa Ltd.
M/s. Sankei Pragati India Pvt. Ltd.
M/s. JSG Autotech Pvt. Ltd., Sonipat
M/s. Prius Auto Industries
M/s. Jain Plastic Industries
M/s. Y-Tec India Pvt. Ltd.
M/s. Aurangabad Electrical Ltd.
M/s. Metalman Auto Ltd.
M/s. ENCO Engineering Pvt. Ltd.
M/s. YKK India Pvt. Ltd.
M/s. Alpha Maier Pvt. Ltd.

MANYMORE & STILLCONTINUE...



HONDA



SUZUKI



Hero

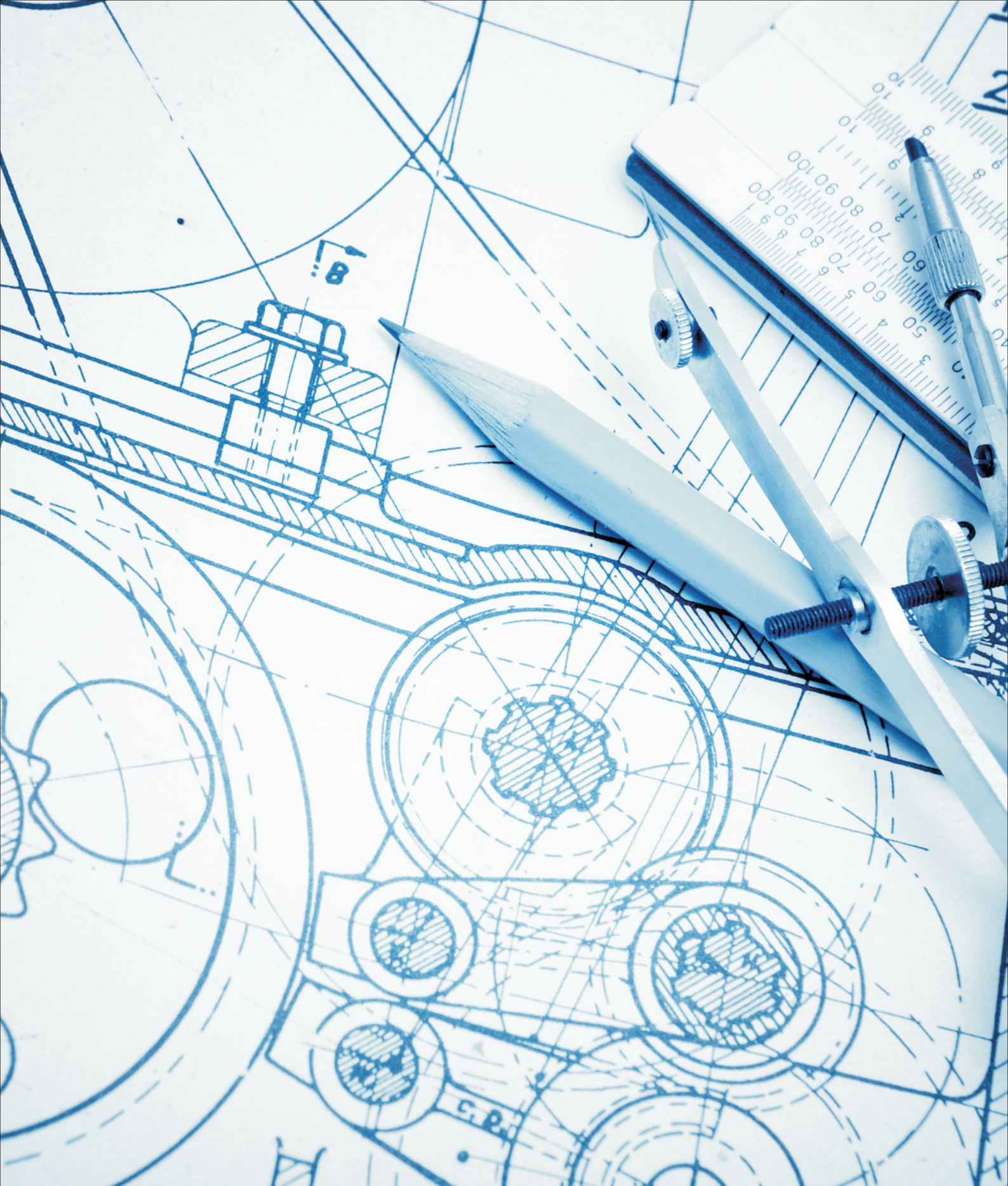


YAMAHA



Mahindra
2 Wheelers





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