



# PERFECTTO ENGINEERING

**An ISO 9001:2015 Certified Company**

Gat No. 73, Near Poona Forge Company, Jyotiba Nagar,  
Talwade, Pimpri-Chinchwad, Pune, Maharashtra-412114

## About us

**Perfectto Engineering is an ISO 9001:2015 certified company** Established in 2016 and located in Pune. Perfectto Engineering in the field of Design and Manufacturing of Ash/Dust/Coal/Cement handling equipment, process equipment, Special Purpose machine, Pharmaceutical equipment, material handling equipment and Stainless Steel Fabrication work.

We have expertise in Rotary Air Lock valve, Slide gate valve, Rapping system for Boiler (Hammering system), Peristaltic pump, scissor lift, Electromagnetic hammer, Stacker, Dock leveler, Agitator, Skid, Air pollution control equipment and material handling pallet.

## Goal Statement

Our Goal is to produce and continually develop quality products at a competitive price while fostering a climate where environmental technologies can thrive. All employees will work together in combining their efforts and skills to ensure our Mission and Goals are fulfilled in a courteous manner.

## Mission

Realistic delivery schedule adhered for completion of various custom built equipment's. Active after-sales back up to cater commissioning and erection supervision, if necessary.

## Design Objectives

The objective of our design is to provide maximum safety, reliability, compatibility and efficacy to our customers. Constant up gradation in design procedure to keep pace with latest technology. Design for Reliability and availability of the product during complete expected life of product with cost effective solution. We have dedicated design departments for Mechanical, Structural and Process Design. Our design department is equipped with latest CAD facilities and 3D modeling software ensuring perfection in design.

## Infrastructure

Perfectto Engineering is working with two Plant named as

1. Unit-1 for manufacturing of all kind of Mild Steel (MS) related project work and
2. Unit-2 for manufacturing of all kind of stainless steel (SS) related project work.

## Salient feature of our infrastructure

- We have 16000 Sq.Ft area for manufacturing of Mild Steel related project work and 7000Sq.feet area for manufacturing of stainless steel related project work.
- Working floor are built in RCC and covered with closed roof shed.
- Separate department for Machining work

## Our Products:

### 1. Rotary Air Lock Valve

#### Overview:

- Perfectto Engineering Provides a complete range of Rotary Airlocks valve suitable for air lock applications ranging from gravity discharge of filters, rotary valves, cyclone dust collectors, and rotary airlock storage devices to precision feeders for dilute phase and continuous dense phase pneumatic conveying systems.
- Rotary Air lock valve sizes from 150 mm to 800 mm are manufactured as per customer requirement. Also we supplied customized product as per client demand.



#### Product Feature:

- Perfectto Engineering specialized in fabricated Rotary Air Lock valve. Also they can be supplied this product in castings for the smaller sizes in some special cases.
- The body is generally of Mild steel, lined with hard plate material such as Sail hard or Hardox to increase the life of feeder especially where the material handled is abrasive in nature. The rotor with vanes is again of mild steel material but can be manufactured in special steel of higher hardness depending on properties of material handled. Perfectto Engineering can supply the body & rotor with vanes in stainless steel material also.
- The drive arrangement for Rotary Air lock Valve can be of two types viz.
  - Direct drive using geared motor directly coupled to the feeder shaft through flexible coupling
  - Chain driven with primary reduction by geared motor.

#### Application Area:

- The Rotary Air Lock Valves are used for handling various materials - typically, cement, ore, sugar, minerals, grains, plastics, dust, fly ash, flour, gypsum, lime, coffee, cereals, pharmaceuticals etc.
- These valves are best suited for the following industries: cement, chemicals, mining, mineral process, textile, paper, food grains, power etc.

## 2. Slide Gate Valve

### Overview

- Perfectto Engineering Slide Gate Valves are designed to provide a quick acting isolation valve unit that can be installed into a bulk handling flow path to stop material flow.
- Perfectto Engineering Slide gate valves are simple and compact in design, robust in structure, excellent in technology and are easy to install. Slide gate valves are designed to shut off product flow from outlets of storage bins, silos, conveyors, and other discharge points handling dry bulk materials.



### Product Feature:

- Perfectto Engineering manufactures Slide Gate Valves from 150 mm to 350 mm are circular opening flanges in cast iron material of construction and 400mm to 1000 mm are square opening flanges in structural steel body frame MOC. Customized sizes can be supplied in fabricated construction as per customer requirement
- The hand wheel/chain wheel for all slide gate size are made from casting. Gate Plate material can be Mild steel, Sailhard, Hardox or Stainless steel to suit the application.
- The movement of slide plate is either done by direct push-pull force or by using machined rack & pinion arrangement.
- Perfectto Engineering provides actuation for the Valve as per customer's requirement. It can be  
(i) Manually operated, (ii) Pneumatic cylinder operated or (iii) motorized actuator

### Application Area

- The Slide Gate Valves are used for handling various materials - typically, cement, ore, sugar, minerals, grains, plastics, dust, fly ash, flour, gypsum, lime, coffee, cereals, pharmaceuticals etc.
- These valves are best suited for the following industries: cement, chemicals, mining, mineral process, textile, paper, food grains, power etc.

### 3. Rapping System (Hammer System for Boiler)

#### Overview

- Rapping System is a special product for cleaning horizontal super heater coil paths, especially for waste, biomass and industrial plants, sugar factory, cement factory and chemical factory.
- Rapping Systems can be applied to remove deposits from the heating and reaction surfaces without any additional cleaning medium like steam, air or water.
- Perfectto Engineering develops and manufactured rapping hammer, Pusher pin assembly, drive mechanism, Support structures and all other internal and external support parts for mechanical rapping Systems for waste heat recovery system in cement plant for pre-heater boiler.



#### Product Feature:

- By means of Geared Motor operated chain drive arrangement rotates main shaft. Hammers are clamped over main shaft by equal angular & linear pitch/distance.
- This Main shaft rotation causes hammer start to fall about its fulcrum point one after one and collides over pusher pin. The applied impact energy by hammer is transferred to the pusher pin then directly to the inner shaft which is directly connected to heat exchanger coils and causes the coils to vibrate – the oscillation continues through the complete heat exchanger bundle and Deposits fall off.
- Noise protection of the rapping system is possible (optional).
- If the boiler is a positive pressurized unit, sealing air prevents the admission of flue gases.

#### Application Area

- This cleaning technique can be applied to remove deposits from the heating and reaction surfaces of the convection area and economizers without any cleaning media like steam, air or water.
- The rapping system can be designed to work mechanically. These are key capabilities for an efficient on-load cleaning of heat exchanger bundles in convection area and economiser and so with untroubled heat transfer and boiler availability.
- By rapping the polluted heating tube bundles caused an oscillation, which shake off the build up material. Cleaning with air or water is no longer required and takes place by means of mechanical hammers as a result, a still better cleaning effect.
- These Systems are best suited for the following industries: cement, mining, power etc.

## **4. Conveyors**

We are leading Manufacturer of Conveyor and it's type as below:

1. Screw Conveyor
2. Chain Conveyor
3. Wet Scraper chain conveyor
4. Bed Ash Cooler Screw Conveyor
5. Belt Conveyor
6. Roller Conveyor
7. Drag Chain Conveyor

### **Product Description**

- We are a leading manufacturer and supplier of wide range of Conveyors which are used horizontally or at a slight inclination as an efficient way to move semi-solid materials. Our range is manufactured using advanced technology and premium quality raw material sourced from our reliable vendors of the market. This range is designed and developed in compliance with the industry quality standards. Our Conveyors are widely acclaimed in the market for their robust construction, reliable performance, advanced designs, longer service life and high performance.

### **Product Features :**

- Various options for material of constructions depending upon product properties
- Designs with mechanical seals for operations under vacuum
- Cantilever screw designs
- Designed to ensure smooth operation
- Jacketed designs to heat or cool the material during conveying
- Designs with hollow shafts for cooling or heating media
- Rugged screw flights to handle abrasive material with ease
- Designed for easy operation and maintenance
- Easy removal of screw, chain linkage, belt roller of conveyor for cleaning
- Special Material of construction & Designed for food and pharmaceutical industry

### **Applications :**

- Cement industry
- Sugar plant
- Fuel industry
- Waste Matter plant
- Food and beverages industry
- Chemical industry





**A..Belt Conveyor**



**B. Chain Conveyor**



**C.Wet Scrapper Chain Conveyor**



**D. Bed Ash Cooler Screw Conveyor**



**E. Screw Conveyor (Jacketed Type)**



**F. Screw Conveyor**

## 5. Air Control Damper

### Product Description

We are offering a wide range of Air Damper to our industrial clients. It can operate manually or automatically. A handle on the outside of a duct turns manual dampers. Automatic dampers are used to continually control. Automatic or motorized dampers can also be regulated by a solenoid and the degree of air-flow calibrated to modulate the air-conditioned air flow to regulate the environment. Our range is manufactured using advanced technology and premium quality raw material sourced from our reliable vendors of the market. This range is designed and developed in compliance with the industry quality standards. We Offered this damper in a compact design and rigid structure, these products are painted with aluminum and powder coated.

Air Control Damper types are as below:

- Duct Dampers
- Industrial Dampers
- Louver Dampers
- Circular type Damper
- Square & Rectangular type
- We are a leading manufacturer and supplier of wide range of Air control dampers which are used horizontally or at a slight inclination as an efficient way to move semi-solid materials. Our Conveyors are widely acclaimed in the market for their robust construction, reliable performance, advanced designs, longer service life and high performance.

### Product Features :

- Various options for material of constructions depending upon product properties
- Designs with mechanical seals for operations under vacuum
- Designed to ensure smooth operation and maintenance
- Easy removal of Flap, linkage, Shaft, Actuators and its Seal for cleaning purpose.
- Special Material of construction & Designed for food and pharmaceutical industry
- Available Size are : 100MM TO 3000MM
- Available SS , MS, Aluminum, SPECIAL MOC

### Applications :

- Cement industry
- Sugar plant
- Fuel industry
- Waste Matter plant
- Food and beverages industry
- Chemical industry





A. Circular Type Pneumatically Control Damper



B. Circular Type Manually Control Damper



C. Rectangular Type Pneumatically Control Damper with Manual Override



D. Circular Type Electrically Operated Damper with Manual Override



## 6. Agitator/Mixer

### Overview:

- The design of pharmaceutical and chemical reactors has to be catered of several issues which needs customization so as to meet the customer's specific process requirements. The offered mixer agitators are tested from our end in order to deliver a defect free range to customer's end. Our mixer agitators are developed with quality material under the direction of skilled professionals.



### Product Features:

- Robust design of Various Types of Agitators such as Anchor, Turbine, Mig , Hydrofoil, Propeller, Pitched, Disc, Paddles, Helical and Contra Mixer etc. are capable of producing desired turbulence. These mixer agitators are comes in several specifications as per the need of our customers.
- Perfectto make Agitators has taken its understanding of industrial tank mixers and agitators and applied it throughout its product line. Whether you are looking for large heavy-duty tank agitators, or mixers for bulk containers, Perfectto applies the same high quality engineering into its base designs.
- Perfectto's agitators and tank mixers are suitable for a range of different applications in industries from Energy and Natural Resources to Specialty Chemicals. The result is quality design and engineering that is guaranteed through our industry leading Solution Assurance.
- Robust design of Various Types of Agitators such as Anchor, Turbine, Mig , Hydrofoil, Propeller, Pitched, Disc, Paddles, Helical and Contra Mixer etc. are capable of producing desired turbulence. These mixer agitators are comes in several specifications as per the need of our customers.

### Application:

- Food Processing
- Dairy – Sanitary Standard
- Pharmaceutical
- Chemical
- Wine
- Mineral Processing
- Water And Wastewater
- and numerous other industries which require gas dispersion, re-pulping, solids suspension and a host of other specialties

## 7. Storage Tanks and Vessels

### Overviews:

We are manufacturing and supplying a highly functional range of storage tanks that find wide application in process industries. These storage tanks are used in many configurations depending upon their functional requirements such as operating temperature and storage medium.

**These storage tanks are offered to our clients in the following shapes :**

- Horizontal Storage Tanks
- Vertical Storage Tanks
- Elliptical Shaped Storage Tanks
- Dished Shaped Storage Tanks
- Flat Storage Tanks
- Conical Head Storage Tanks

We hold expertise in offering SS Storage Tanks for meeting the process demands of chemical industry. We use various material of construction such as MS, Boiler Quality Plates, Stainless Steels, Alloy Steels, Aluminum & FRP.

### Material of Construction:

**Stainless Steel - 304, SS 316, SS 316L & MS.**

### Applications :

- Chemicals,
- Pharmaceuticals,
- Food Products,
- Dairy & others.



## 8. Peristaltic Pump

### Overviews:

A peristaltic pump is a type of positive displacement pump used for pumping a variety of fluids, particularly clean, sterile or aggressive fluids.

Advantage of peristaltic pump: Peristaltic pump can handle extremely viscous fluids, abrasive slurries and corrosive fluids. There is no seals in contact with the medium pumped and no valves to clog. The inner surfaces are smooth and easy to clean; fluid contacts only the tubing or tube material. The high volumetric efficiency allows operation in metering or dosing applications where high accuracy is required.

Perfectto Manufacture and Supplies Industrial peristaltic pump, reinforced rubber hose system for working pressures up to 5 bar.

- Available flow rate from 10 to 1000 l/h, different driver options available for fixed or variable speed, different connections system available on request. Also we supplied customized product as per client demand.



### Feature:

Peristaltic Pump accepts tubing with ID from 8 mm to 10 mm & OD 16 mm. Use only tubing specified for peristaltic pumps.

One of the important and unique features of Peristaltic pump is that the control of liquid flow can be expressed either as the rotation rate of the pump head (RPM) or directly as the flow rate in milliliters per minute (mL/min) or milliliter per hour (mL/hr). The accuracy of the flow rate will depend on the accuracy of the tubing ID. For applications requiring a high precision pumping rate, the pump can be easily calibrated with the tubing used.

### Application Areas:

- Water Treatment: Muds, Lime Milk, Ceramic Additives, Etc. ...
- Chemical Industry: Inks, Glues, Dyes, Peroxide, Acids, Etc. ...
- Food And Beverage: Milk, Oils, Enology Additives, Liquid Egg, Sauces, Jams etc.

## 9. Material Handling Equipment

### 9.1 Cane Carrier

We are a well known manufacturer of Cane Carrier. These carriers are completely made of steel and have adequate column and support. Ample carrier depth is available with these cane carriers that facilitates to feed the required capacity. The products manufactured by our organization are well known among our customers for their durability. We are also engaged in offering these products at a customized range as per the requirements of the clients.



### 9.2 Main Bagasse Carrier / Inter Rake Carrier

We are involved in manufacture, export and supply of premium quality **Main Bagasse Carrier**. Our expertise has allowed us to develop purely advanced carriers which are very robust in design and maintenance free. Durable products, which are precisely designed by our experienced team, are offered by us. To manufacture these products we are equipped with the latest technology thus ensures the durable products to our clients.





### 9.3 Cane Feeder Table

Offering a wide range of Feeder Table to our valuable client in different specifications to meet the diverse requirement of client. These are made from high quality raw material. The feeders are extensively used for extracting and feeding the free flowing powdery and granularly and small lumpy material from silo at control rate.



## Our Valuable Customers:

- Thermax Limited.
- Thyssenkrupp Industries India Ltd.
- Glatt Systems Pvt. Ltd.
- UltraTech Cements Limited
- Deccan Cements Limited
- Nagarjuna Cement Limited
- GM Sugars & Energy Ltd
- RIECO Industries Ltd.
- Dana India Pvt. Ltd.
- Fluid control India Pvt. Ltd.
- The G Engineers
- Gaps Energy Pvt. Ltd.
- Prochem Trunky Project Pvt
- Rheomold Engineering
- Ravikas Automotive Systems Private Limited



## **Contact us:**

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