

# Kamal Corro. Control Services (Kamal Group of Industries)

We keeps you ahead...



- Corrosion Control Systems
- Dust and Fumes control systems
- Formation and Pickling Systems
- PP/PVC/FRP Tank Manufacturing
- Pipeline/Ducting Laying Works
- Turnkey Solutions

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# ABOUT US

Kamal Group of Industries founded by Singh Family, is a well-established business house in India's fast growing economy of Manufacturing, Fabrication and Lining works. Kamal group of industries was established with the inherent strength and capability to provide its customers with ideal solutions, Attractive designs, Latest technologies withstanding rapid growing Technology and Engineering needs.

A modest beginning in 2001 with Kamal corrosion control services which has now transformed into an organization catering to the entire need of Thermoplastic Manufacturing, Fabrication, Erection, Lining, Trading and Service Providing. Kamal Polytech Private Limited was established in 2014 by this group for the manufacturing of PVC Sheets in its Manufacturing facility in Nallasopara, Maharashtra and Expanded Geographi-cally in Umbergaon, Gujarat as well as vertically by diversifying into Manufacturing and Fabrication of range of Products.

Under the Strong Leadership of our Managing Director Mr. Arvind.I.Singh We boast our team of Qualified and Engineering professionals who have profound knowledge and expertise over the year with Professional management and hierarchy, you will find that all your concerns and needs will be catered to at every step of correspondence. Our Dedicated Sales Team Looks forward to serve you.



## VISION

To become Customer's first choice while selecting Thermoplastic Range of Products with continuous development of Innovative products and achieving operational Excellence



## MISSION

To embrace a propensity for satisfying the needs and expectations of our customers by supplying on-time, high quality products and services, with competitive pricing and long term consistent value.



## VALUE

We offers range of Thermoplastic Products which are highly customized for the end application and following customer service promise of Quality, Cost, Development and Delivery.

# Formation Tub

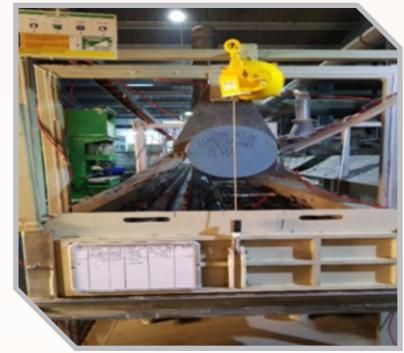
## A) PRODUCT DESCRIPTION:

Formation Tub is one of the most essential component for Battery Manufacturing industries for charging various batteries at same time considering the heat generation and corrosive nature of Battery charging. We captured the status of providing more than 200 of Formation Tub by ensuring best quality with developing Technologies and Design which generated best Results. Our 24X7 Service approach make us most trusted and reliable industry of the field.



## B) SALIENT FEATURES

1. High resistance to Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)
2. German make PPH Sheet for providing high strength
3. Low Thermal Expansion Coefficient
4. Maintenance Free
5. Long Life, Durable, strong
6. Customizable up to 160 Tall Tubular Battery Charging/Tub
7. Leakage Proof Flange and Gate system
8. Idler PVC+UHMWPE Roller conveyer inside for smooth Battery movement With SS316L Bearings
9. Suction Fume Hood for evacuating the fumes with Polycarbonate Doors to access
10. Easy to access internal water circulation through inlet, Outlet and Overflow for controlling heat generation during battery charging
11. Automatic spring loaded Gate opening system



## C) TECHNICAL SPECIFICATIONS



### 1. Size: Customizable

- a) Length: 2000 to 25,000 mm
- b) Width: 1000 mm to 2000 mm
- c) Clearance Height: 325 to 550 mm

### Standard size:

Length 18000 mm, Width 1200 mm, Height 400 mm for 120 No's Tall Tubular Battery Charging (Three row idler roller conveyer)



### 2. Tensile Strength Yield: 30 MPA



### 3. Modulus of Elasticity: 1600 MPA



### 4. Coefficient of Thermal Expansion: 17X10<sup>-5</sup>K



### 5. Coefficient of Thermal Conductivity: 0.22 W/Km

## D) APPLICATIONS

- Battery Charging, • Battery forming, • Plate storage, • Acid storage etc.

# FUME EVACUATION SYSTEM

## A) PRODUCT DESCRIPTION:

With the green movement world has become much more aware about the environment and industries contributing their part to generate least pollution and consider safety, environment and health of working employees to be most important part of organization. We are contributing same for this purpose and our Fume Evacuation system are strongly recommended for Exhausting fumes carried(through suction hood) in workplace to safe access height (through stack) with the help of Centrifugal Blower through processing the fumes with Scrubbing system according to environmental norms. With more than 20 FES all over India it make us immense proud to convert difficult to work conditions into workable one.



## B) SALIENT FEATURES

1. Acidic (H<sub>2</sub>SO<sub>4</sub>, HCl, HNO<sub>3</sub>), Phosphoric, Ammonia, Nitrile, Ethylene oxide Fumes can be scrubbed
2. Corrosion Resistant
3. Long Life
4. System Performance testing
5. Design considering Environmental Norms
6. High ACPH Values can be obtained
7. Customizable fume Hood Design
8. System can be design for high static pressure
9. Robust Aerodynamic design for ducting
10. Structure up to stack height for perfect alignment



## C) TECHNICAL SPECIFICATIONS

	<b>1. Capacity Range:</b> 5000 CMH to 100000 CMH
	<b>2. Static Pressure Range:</b> 50 to 500 mm of H <sub>2</sub> O
	<b>3. Scrubbing Stream:</b> Water jet Type
	<b>4. Scrubbing System:</b> Packed Bed or Venturi Type
	<b>5. Scrubbing Flow:</b> Parallel or cross type
	<b>6. Max. Temperature:</b> 50 Degree Celsius
	<b>7. MOC:</b> PPGL+FRP/PP
	<b>8. Fume Hood Design:</b> Customizable according to environmental Norms
	<b>9. Stack Height:</b> Up to 30 Meters from Ground Floor
	<b>10. Blower Type:</b> Backward Curved Centrifugal Blower

## D) APPLICATIONS

Few of the applications of Fume Evacuation System is Pickling Plant • Battery Charging Systems • Galvanizing Plant • Electroplating Plant • Pharmaceutical applications • Sterile Plant • Zinc Manufacturing Plant Etc.

# MATERIAL HANDLING CONVEYERS

## A) PRODUCT DESCRIPTION:

Material handling has become one of the most important as well as critical part of overcoming the problem of excess manpower as well as for reducing unessential Man effort. Our offering relates both Powerized Modular Belt conveyer as well as Idler Roller Belt conveyers for various purposes of material handling. Our conveyers are best suitable for highly chemical effected areas with our special corrosive resistant SS316L and PP Conveyer.



## B) SALIENT FEATURES

1. High resistance to Corrosion
2. Fully Automated Powerized Modular belt conveyers
3. VFD for controlling Conveyer speed
4. German make PP Belts for high strength and durability
5. Photoelectric sensors to automatically stop the conveyer to avoid queuing.
6. Design considering Visual and safety aspects
7. Radial conveyers for required curves
8. Idler PVC+UHMWPE Roller conveyer with SS316L Shaft and Bearing
9. Specialized in PP Conveyers which introduces same strength and much great chemical resistant properties as compare to SS316L



## C) TECHNICAL SPECIFICATIONS

	<b>1. Load Capacity:</b> 200 Kg/Min
	<b>2. Speed:</b> 18 Meter/Min
	<b>3. Size of Conveyer:</b> <b>Length:</b> Up to 12 Meters <b>Width:</b> 300-750 mm <b>Height:</b> Up to 700 mm
	<b>4. Roller Type:</b> SS316 L/PP/PVC+UHMWPE Bush
	<b>5. MOC of Conveyer Frame:</b> SS316L/PP
	<b>6. Conveyer Type:</b> Modular Straight, Modular Radial, Idler Straight, Idler Radial

## D) APPLICATIONS

Wide range of application includes • Battery Industry • Pharmaceuticals • Wire making • Bottle Making etc.

# WATER COOLING & CIRCULATION SYSTEM

As its name suggests this system can be implemented to various applications for Cooling and Circulation but our purpose is not just to give our customer any ordinary system instead this system gives best results by considering all factors and automatically maintaining the flow with temperature difference. Components of this System is given below with their features and Technical Specifications:

## 1. Cooling Tower:

Direct access to internal part helping easy maintenance and repair which is negligible. Special composition or raw material in making FRP cooling towers are selected to withstand corrosion, resistant to water borne bacteria and organisms as well as to most of the chemical and is light in weight which permits roof installation without special reinforcement of any kind – vertical induced draft counter flow design permits installation in any direction with freedom-consumes less power (energy) overall because of less air resistance to water theory saving in operational costs-available in various colors matching to exterior architectural beauty. A direct driven axial fan ensures there is free from problems faced with belt and gear drives.

We have range of FRP Cooling Tower from 10 TR to 500 TR with Bottle to square type shapes for Chemical resistant conditions including SS Hardware's



## 2. Multi Grade Sand Filtering Unit

For fluid flowing through the pump and cooling tower it is essential to decrease the number of Total Dissolved Solids added with impurities while circulation as they can return to the main process and can damage the entire system. For this Purpose Multi Grade Sand Filter Unit can be used which uses different layers of Sand Particles which acts as membrane for fluid flowing through it and restricts the path of TDS carrying with the Fluid. We can provide Multi Grade Sand Filtering Unit up to 200 M3/HR capacity.



## 3. Circulation Pump:

For fluid to be highly corrosive in nature it requires special pump which can justify the flow without damaging Pipeline and accessories it is passing through. We have Range of Material of construction for pumps including SS316L, GFRPP, ALLOY 20, CI etc. for various applications up to 300 M3/HR of Flow for main circulation.



## 4. Controlling Sensors and Automation:

As we have already discussed that main purpose of our system is to reduce the ordinary efforts of the customers and providing them best out of that. Fully Automatic Flow Control valves can be used for controlling the inlet flow according to the feedbacks of the system. The feedbacks include Temperature requirements. We have Temperature controllers which gives indications to flow control valves regarding the need of the system. Level Sensors are also introduced to the system so that pump cannot run in dry condition. TDS Sensor is used to have check on Multi Grade Sand Filters Operational working. PH Sensors along with Chemical dosing system can also be used for highly corrosive Fluids.

**All Together this system introduces a new creation of circulations which promises in reducing error which are present in ordinary circulation system**

# FRESH AIR SYSTEM

## A) PRODUCT DESCRIPTION:

There are two types of Ventilation systems i.e. Spot Cooling or Point cooling and Room Cooling or Local Cooling. Fresh Air System provides Spot cooling for individuals or fume settling purposes. In this system Fresh Air from environment through filters and moisture content passed to particular spots with the help of Centrifugal Blower and Ducting system. We can provide fresh air even in highly acidic or environmentally effected areas through our design and material choice. We have already provided customized solutions of same to Top Industries of India.



## B) SALIENT FEATURES

1. Air Washer with Corrosion Resistant Ducting
2. Long Life
3. System Performance testing for Ventilation
4. Design considering HVAC Norms
5. High ACPH Values can be obtained
6. Customizable Spread Hood Design
7. System can be design for high static pressure
8. Robust Aerodynamic design for ducting



## C) TECHNICAL SPECIFICATIONS

	<b>1. Capacity Range:</b> 5000 CMH to 100000 CMH
	<b>2. Static Pressure Range:</b> 30 to 150 mm of H2O
	<b>3. Wetting Pad:</b> up to 200 mm thick cellulose paper pad
	<b>4. Filtering Unit:</b> Single stage 10 Micron
	<b>5. Construction of Air Washing Unit:</b> Double skin Construction, Outer Skin GI+PP, Inner Skin GI with SS316L Water Basin
	<b>6. MOC of Ducting:</b> PPGL+FRP
	<b>7. Speed Control:</b> VFD Type
	<b>8. Blower:</b> Backward Curved Centrifugal Type

## D) APPLICATIONS

It can be used for any spot cooling or dust settling application in any industry

# FULLY AUTOMATIC ACID FILLING AND LEVELLING MACHINE

## A) PRODUCT DESCRIPTION:

This is our special product for Battery Manufacturing Industries which is used to fill and level the specific quantity of acid into the battery. This is fully Automatic machine consist of Powerized conveyer and sensors which automatically runs the whole process of filling with 6 suction and 6 discharge nozzles to meet the need of regulating the electrolyte level.



## B) SALIENT FEATURES

1. Fully Automatic Machine
2. Acid Resistant Body
3. Robust Design
4. High Output Machine
5. Human Machine interference provided

## C) TECHNICAL SPECIFICATIONS

	<b>1. Capacity Range:</b> 180 Battery/Hour
	<b>2. Material of Construction:</b> SS316L Body
	<b>3. Conveyer:</b> Modular Type PP Conveyer
	<b>4. Acid Tank:</b> Poly Propylene
	<b>5. Power Consumption:</b> 3KW
	<b>6. Air Pressure:</b> 0.4 MPA
	<b>7. Overall Dimensions:</b> 2000MM X 1230MM X 2070MM

## D) APPLICATIONS

Battery Acid Filling and Levelling Machinery

# CONVEYERISED AMMONIA PICKLING SYSTEM

## A) PRODUCT DESCRIPTION:

Pickling is a method of preparing metal surfaces by chemical reaction, electrolysis, or both. In pickling, rust and scales are removed by chemical reactions with mineral acids and with certain alkaline materials. Various acids used in commercial pickling include sulfuric, hydrochloric or muriatic, nitric, hydrofluoric, and phosphoric acid, and mixtures of these can be used as well.

Pickling is considered a desirable method of removing rust and mill scale from structural shapes, beams, and plates in workshops when the cost of such removal is felt to be justified. Properly accomplished, this method produces a surface that will promote long paint life with most coating. We provide fume protected fully conveyerized ammonia pickling systems for Battery Industry which includes Loading/Unloading Stations, SS Conveyer, SS Jig carrying Plate, Conveyer Enclosure, declined dipping conveyer, Chemical storage tanks, Filter Press, Sludge recovery, Fume Hoods and Fume scrubbing system for complete process.



## B) SALIENT FEATURES

1. Fully Automatic Machine includes inclined conveyer dipping
2. Chemical Resistant Body
3. Sludge recovery system
4. Filter Press Unit
5. Fume Hood
6. Fully Enclosed Conveyer
7. Fume Scrubbing System
8. Slurry Transfer Unit
9. Water Spray Jet Nozzle system

## C) TECHNICAL SPECIFICATIONS

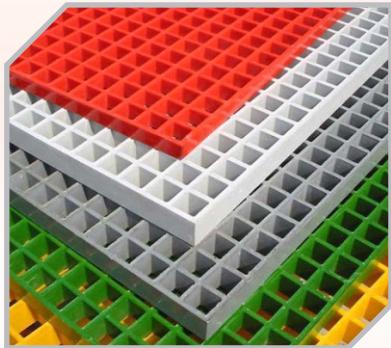
	<b>1. Capacity Range:</b> 4000 TT Plates/Hour
	<b>2. Material of Construction:</b> PP Enclosure
	<b>3. Conveyer:</b> SS316 with bush fitting
	<b>4. Sludge Recovery System:</b> 5 KL Settling Tank Conical, 3KL Settling Tank Conical, and 2 KL Overflow Tank Rectangular with open cover (PPGL + FRP)
	<b>5. Filter Press:</b> Hydraulic Cylinder Type Up to 100 Ton
	<b>6. Circulation Pump:</b> AODD Type PP
	<b>7. Fume Hood:</b> PP Plenum Box for suction at skid, PP Fume hood at enclosure Top
	<b>8. Fume Scrubber:</b> Packed Bed Water Spray Jet Scrubber with ducting connections

## D) APPLICATIONS

- Battery Ammonia Plating Tanks • Galvanizing Tanks • Electro Plating Tanks Etc.

# FRP GRATING

**Applications:** Floor, Pit, Drain



# CENTRIFUGAL FAN

We have wide range of PP+FRP/SS316L/MS+FRP/GI Backward blade centrifugal fan use for both exhaust and ventilation purpose in Various Industries. From controlling Dust/Fumes to providing natural air our fans have multiple use in various industries because of Robust Design and Quality. Fan Ranges from 1000-100000 CMH are available with customized designs



# ANTI-CORROSIVE LINING

## A) ACID PROOF PVC LINING

**Applications:** Floor, Pit, Structure, Tank, Frame



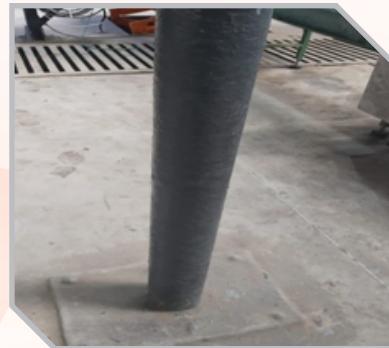
## B) ANTI-CORROSIVE BRICK LINING

**Application:** Pit, Floor, Wall, Tank, Drain, Loading/Unloading Areas Etc



## C) FRP LINING

**Applications:** Floor, Pit, Structure, Tank, Frame, Drain



## D) PU/EPOXY LINING

**Applications:** Floor



## E) REFRACTORY LINING

**Applications:** Kiln, Boiler, Furnace



## F) RUBBER LINING

**Applications:** Tank, Pipe, Valve, Pump



## G) MASTIC LINING

**Applications:** Floor, Drain



# CHEMICAL STORAGE TANKS & HOPPERS

## A) MOULDED FRP TANKS AND HOPPERS



## B) FABRICATED PP/PVC/FRP-PPGL TANKS AND HOPPERS



# PIPELINE/DUCTING LAYING WORK

## A) METALLIC PIPELINE

MS / SS / GI



# PIPELINE/DUCTING LAYING WORK

## B) CHEMICAL PIPELINE

PVC / UPVC / CPVC / PP / HDPE / FRP / FRV



# MS STRUCTURE WORK



# SS AND MS SKIDS/RACKS/TROLLEYS



**Corporate Office:**

C1 Lalji Navji Compound, Somvar Bazaar, N B Road, Malad (W),  
Near Bombay Talkies Compound, Mumbai - 400064

**Manufacturing Unit 1:**

Survey No. 91/92, Plot No. 4, Near Saree Company, Dhaniv Baugh,  
Nallasopara East, Tal: Vasai, District Palghar 401209

**Manufacturing Unit 2:**

Survey no. 352/P-2, Village Punat, Punat Karjgaon main road, Opposite Rameshwar Crusher Machine,  
Tal: Umbergaon District, Valsad, Gujarat 396155

**Branch Office:**

Chittorgarh / Udaipur / Vishakhapatnam / Delhi / Pune / Bhopal / Himachal Pradesh

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