Automobile Industry

Pharmaceutical Industry

Rubber & Plastic Industry

Chemical Industry

Food Industry

Oil & Gas Industry

- Aerospace Industry
- Steel Industry
- Agro Industry
- Paper and Packaging Industries

Coating System

KERONE

About KERONE

KERONE is one of the most admired and valuable company for customer satisfaction.

ENGINEERING EXCELLENCE

KERONE is pioneer in application and implementation engineering.

40 YEARS OF MANUFACTURING EXCELLENCE

KERONE is possessing experience of 40+ years in engineering excellence.

KERONE has reported annual revenue of $8 to $10 Million , increasing year-on-year.

KERONE is having immense expertise in manufacturing and implementing various types of heaters and dryers.

KERONE is possessing employee strength of more than 140 experts continuously putting efforts for happy industrial heating solutions.

Our Vision and Mission

Vision

- Turn into world leader in providing specialized, top-notch quality and ecological industrial heating, cooling and drying solution across the globe.
- To attain global recognition as best of quality and environment friendly engineering solution company.

Mission

- To enhance the value of customer operation through our customer need centric engineering solution.
- We are committed to provide our customers, unique and best in class products in Industrial heating, drying and cooling segment, with strategic tie-up for the technical know-how with renowned leader in the industry specific segment.
- We are company that believes in strong ethics and timely commitment helps to build long term relationship.

Value Propositions

- 40+ Years Of Rich Experience
- Team of Experts Delivering Quality
- Timely Delivery
- Great After Sale Support
- Adherence to Standards
- Sound Infrastructure
- Cost Effective Solutions
- Highly Customized Product

- Member of AIMCAL
- ASCB(E) Certification for Best practice
- IRQAO Certified for quality
- Member of A.M.P.E.R.E. (Europe).
- Recognized and Rated by CRISIL
- CRISIL Verified

In Association with SVCH-Technologii, Moscow (Russia)

Product Categories

- Industrial Heaters
- Curing Systems
- Industrial Heating Equipments
- RF Heating Systems
- Industrial Dryers
- Microwave Heating Systems
- Special Purpose Machine
- IR Heating System
- Coating & Impregnation Plants
- Process Equipments
- Dehydrating Systems
- Mixing Plants
- Pharmaceutical Heating Solutions
- Industrial Ovens

Coating Technologies

Coating is a method of applying a coat of a liquid on a solid material by way of absorption.

Coating also used for applying a fine powdered coat on the solid core using a liquid sticker kind of approach.

Coating is done to achieve following benefits:

- ✓Protection
- ✓Aesthetic
- ✓Functional
- ✓All the Above

Application of Coating Systems

- PVC / Polyurethane Coating for making of synthetic leather
- Coating plant for Silicon coating on Paper
- Coating Plant for Emery Coating on Paper / Cloth etc (Coated abrasive manufacturing plant)
- Coating plant for manufacturing Fax Paper / Thermal Paper
- Coating Plant for manufacturing Carbonless paper
- Coating Plant for lead coating on M.S. foil
- Coating Drier for special coating on Plastic
- Bitumen Coating on paper
- Teflon Coating on glass-cloth to strengthen the glass
- Coating of Capsules and tablets in Pharmaceutical industries

Types Of Coating Systems

We are trusted partnered of many global manufacturing giants for their coating technology and coating equipment needs.

- Gravure Coating Machine
- Reverse Roll Coating Machine
- Knife-Over-Roll Coating Machine
- Air Knife coating
- Metering Rod (Mayer Rod) Coating Machine
- Slot Die Coating Machine
- Curtain Coating Machine
- Immersion/Dip Coating Machine
- Hot melt Coating Machine
- Web Coating Machine
- Fabric Coating Machine

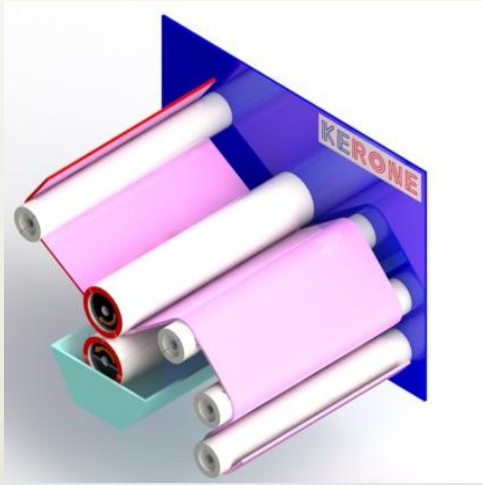
Gravure Coating Machine

The gravure coating process depends on an engraved roller running in a coating shower, which fills the engraved specks or lines of the roller with the coating material.

The overabundance coating on the roller is wiped off by the Doctor Blade and the coating is then saved onto the substrate as it goes between the Engraved roller and a Pressure Roller

The Gravure Coater has turned into a standout amongst the most famous sorts of coaters being used today because of its capacity to apply less coating with more exactness than different strategies.

Gravure coating is an adaptable coating process that can apply a coating slender coating, 3-65 microns wet scope, from a low consistency arrangement, 30-2000 cp,at accelerates to 2300 fpm.



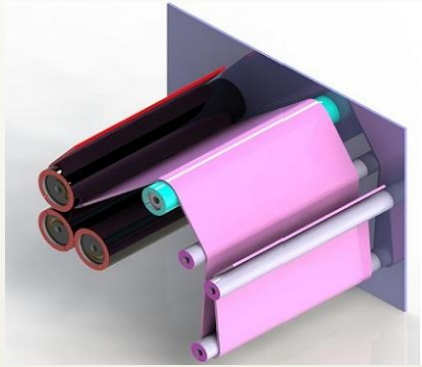
Reverse Roll Coating Machine

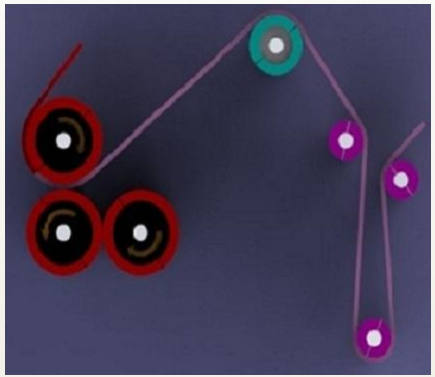
Reverse roll coating is a roll-to-roll coating strategy for wet coatings. Unlike other roll coating systems it has two reverse-running nips.

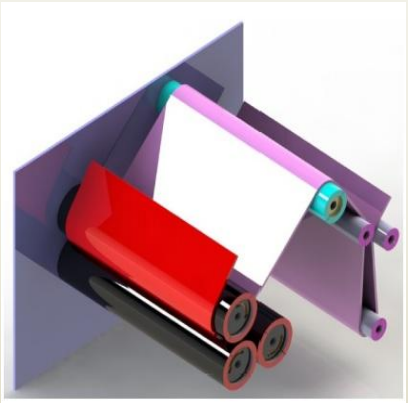
In reverse roll coating, the coating material is measured onto the applicator roller by exactness setting of the hole between the upper metering roller and the application roller underneath it.

The surface of the applicator roll is stacked with an overabundance of coating before the metering nip, so its surface rises up out of the metering nip with an exact thickness of coating equivalent to the crevice.

The coating is "wiped" off the application roller by the substrate as it goes around the bolster roller at the base. The chart delineates a 3-roll reverse roll coating process, despite the fact that 4-roll forms are normal







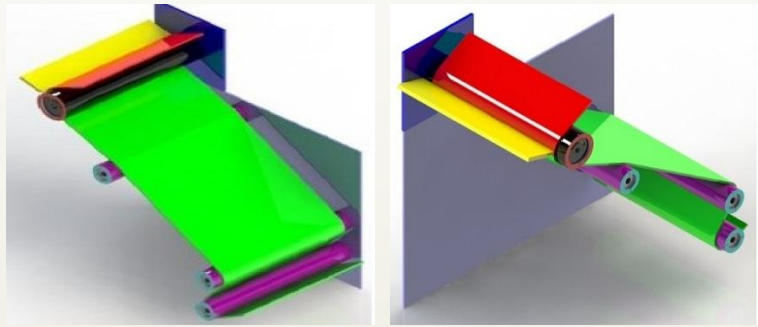
Knife-Over-Roll Coating Machine

The Knife over roll coater has been best when a substantial level coating of medium to high consistency is desired onto uneven surfaces, for example, materials, fiber glass mats and non woven.

In this arrangement the coating being connected to the substrate which then goes through a "gap" between a "knife" and a bolster roller.

Contingent upon the wanted impact to the knife is countered by a roller, platen or nothing by any means; in this manner roller knives, platen knives and air knives are recognized.

The knife bar of current coating plant is outfitted with a few coating knives and is alterable as per the pistol rule. This encourages a brisk change of the knives, particularly of the roller and the air knife.



Air Knife Coating Machine

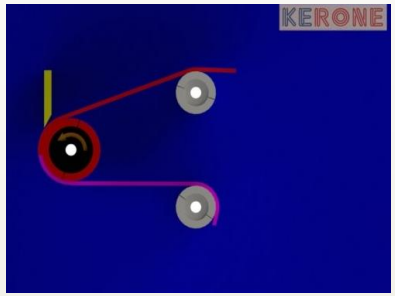
The Air Knife coater, likewise called Air Doctor. The coating is then metered and smoothed from the sheet using a jet of air through a specially designed adjustable Air Knife.

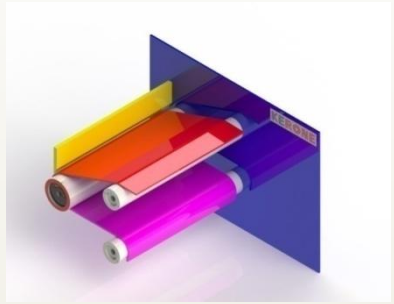
It was broadly used to successively cover the different layers required for photographic movies in light of the fact that it could apply thin layers from low thickness arrangements.

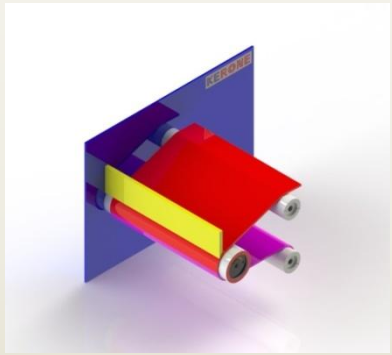
Slide and blind coating on account of enhanced quality, higher rates and multilayer ability supplanted it.

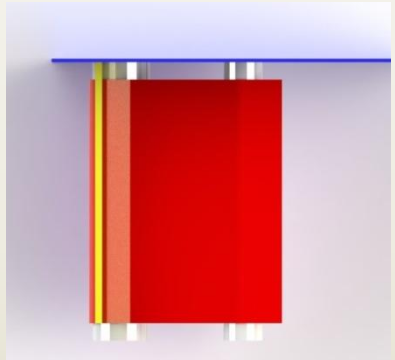
It is currently generally used to apply pigmented coatings in the paper business and for 100% solids coating, for example, liquid zinc and aluminum in arousing applications A basic process where the coating is connected to the substrate and the abundance is 'brushed off' by an effective jet from the air knife.

This method is regularly utilized for fluid coatings and is especially boisterous









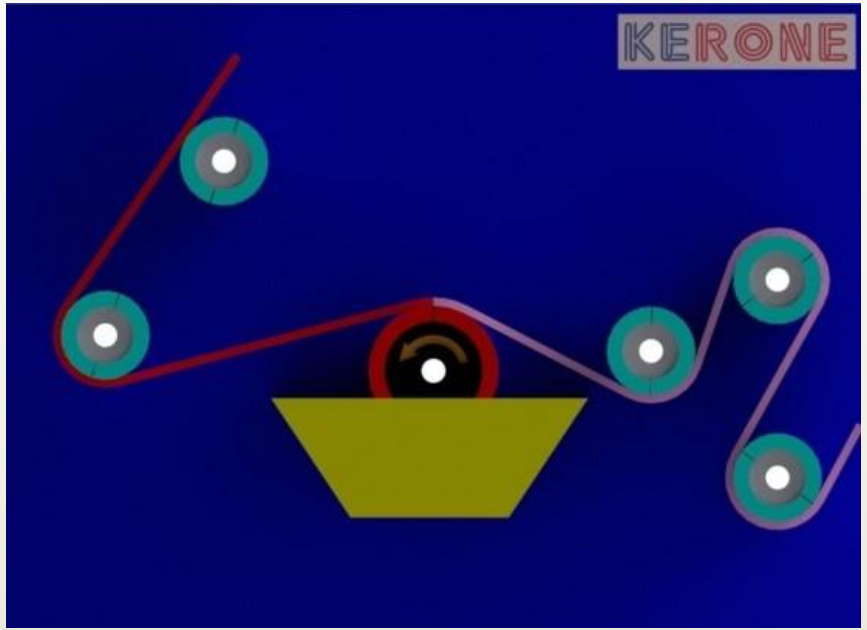
Metering Rod (Mayer Rod) Coating Systems

In Mayer rod coating process, an overabundance of the coating is saved onto the substrate as it disregards the shower roller. The wire-wound metering rod, at times known as a Meyer Rod, permits the coveted amount of the coating to stay on the substrate.

The amount is controlled by the measurement of the wire utilized on the rod. This process is astoundingly tolerant of non-accuracy building of alternate segments of the coating machine.

It utilizes the utilization of a container nourished kiss applicator roll which exchanges an abundance measure of coating to the web took after by either a smooth metering rod or wire wound mayer bar (wire wound rod) to smooth or meter the coating.

Coating weight varieties are made by either fluctuating the web strain over the smooth rod or by utilizing wire wound rods with shifting wire measurements, a bigger wire measurement giving a higher coating weight. Cover weights can likewise be controlled by shifting the point of wrap on the applicator roll and metering rod.



Metering Rod (Mayer Rod) Coating Systems cont..

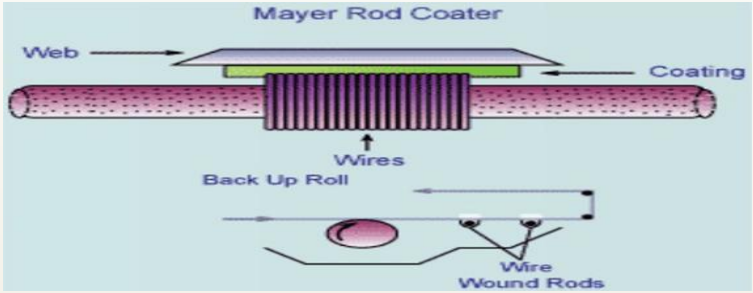
Rods give users the ability to fine-tune coating thickness quickly and easily, without altering the chemistry of their coating material, and without time-consuming and expensive changeovers.

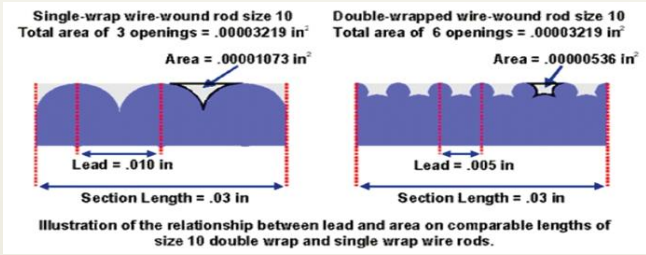
Wire-wound rods were first used in coating machines built by Charles Mayer in the 1900's to manufacture waxed paper and carbon paper. They are still called "Mayer Bars" by many coaters.

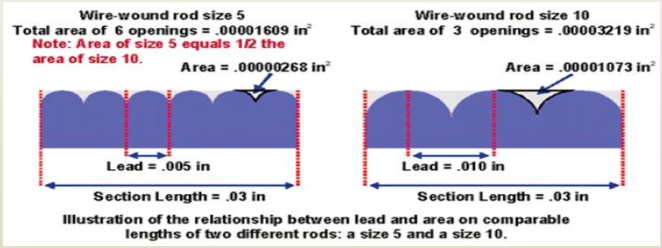
In this coating process, an excess of the coating is deposited on to the substrate as it passes over the bath roller.

The wire-wound metering rod, sometimes known as a Mayer Rod, allows the desired quantity of the coating to remain on the substrate.

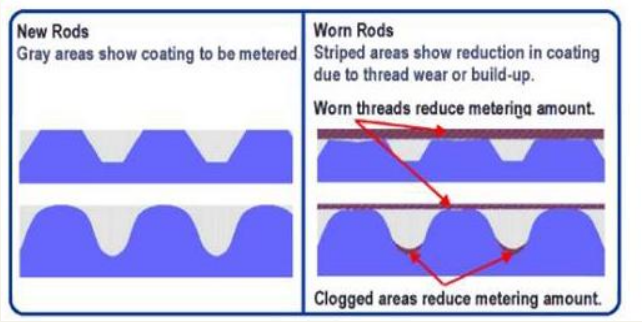
The quantity is determined by the diameter of the wire used on the rod. This process is remarkably tolerant of non-precision engineering of the other components of the coating machine.

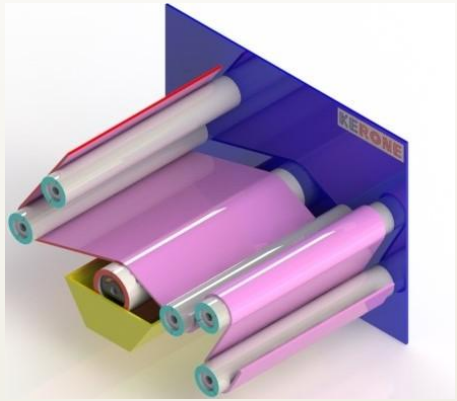




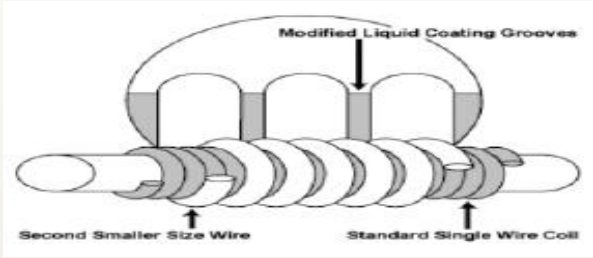


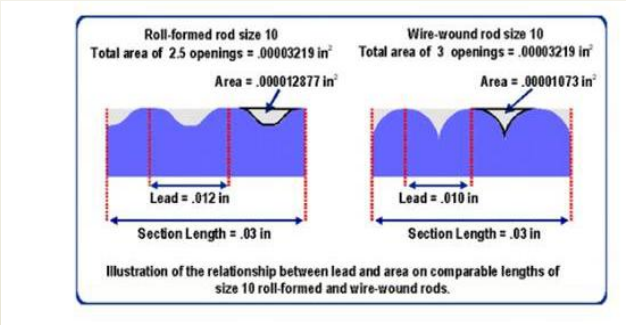
Metering Rod (Mayer Rod) Coating Systems cont..

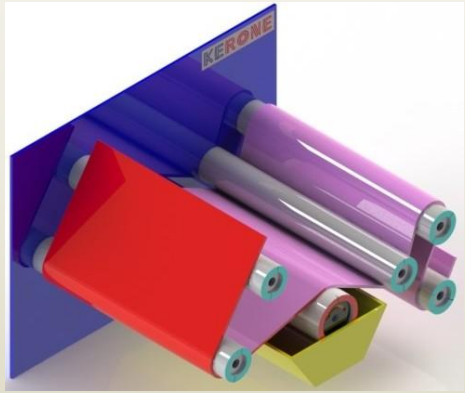




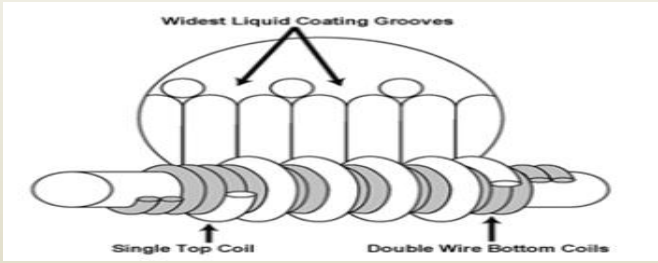
Two-wire Drawdown Rods







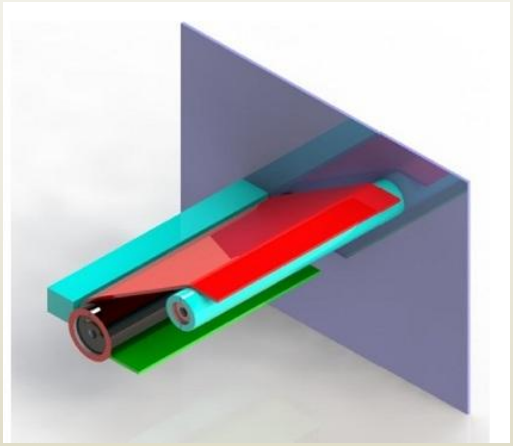
Tri-wire Drawdown Rods

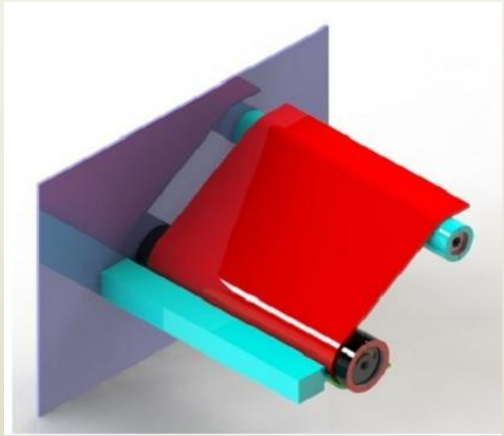


Slot Die Coating System

In the Slot Die process, the coating is pressed out by gravity or under weight through a slot and onto the substrate. In the event that the coating is 100% solids, the process is termed "Extrusion" and for this situation, the line velocity is regularly much speedier than the rate of the extrusion.

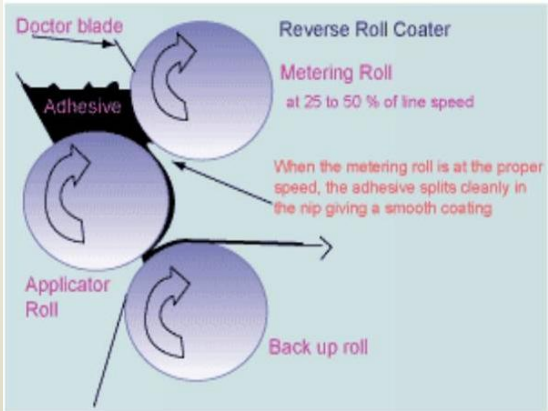
This empowers coatings to be significantly more slender than the width of the slot. Slot Die Coating is a repeatable, solid coating strategy that keeps on gaining support in a mixed bag of coating





Advantages:

✓Able to Coat Organic or Inorganic Liquids on flexible or rigid substrates
✓Excellent coating uniformity (typically ±3% or better)
✓Capable of coating a wide range of process materials: high and low viscosity fluids
✓Deposit a wide range of thicknesses
✓High efficiency / high material utilization: typically 96% process material utilization
✓Highly reliable and robust process
✓High throughput (low TACT) processing



Curtain Coating Machine

Curtain coating process creates an uninterrupted curtain of fluid that falls onto a substrate.

The object to be coated, such as a door, is passed along the conveyor at a controlled speed and so receives even coating on its upper face.

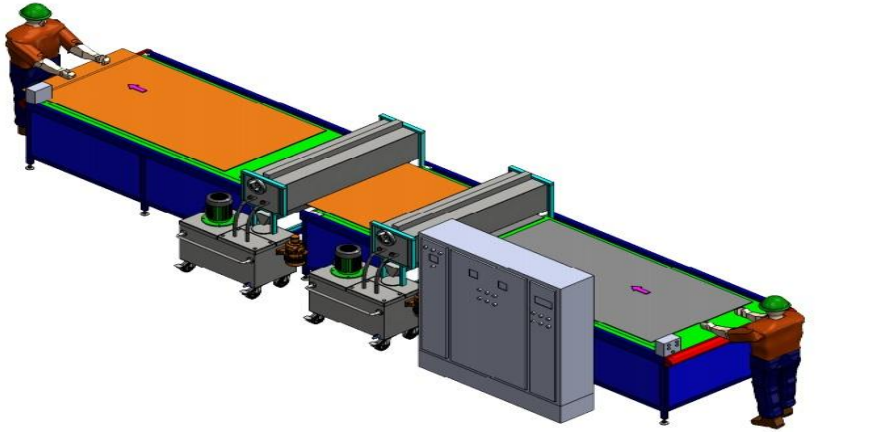
The curtain is created by using a slit at the base of the holding tank, allowing the liquid to fall upon the substrate.

Uses:

- Promotional, opening price-point and moderate market levels.
- Cookware: Interiors and exteriors.
- Bakeware
- Small electrics.

Advantages

✓Speed: This system can coat from 3,000 to 4,000 pieces per hour.
✓Minimum personnel required.
✓Virtually no waste: Since the small amount of unused coating is cycled back into the system, this method wastes less coating than any other.
✓Aesthetics: The only non-spray process that imparts a smooth, glossy finish, with no track marks.
✓Flexibility: Disks can be as thin or as thick as specifications require



Immersion / Dip Coating Systems

This is an industrial coating process; in which the substrate is dipped into a tank of the coating reservoir, which is normally of a low viscosity to enable the coating to run back into the bath as the substrate emerges.

This process is frequently used on porous substrates. Immersion/Dip coating process take after the set method which takes after as parts to be covered ought to be cleaned to evacuate contaminants.

This outcomes in unrivaled groundwork attachment and in addition enhanced consumption resistance. In the event that grip to the part is craved, use of a preliminary is needed on all areas were polymer coatings needed.

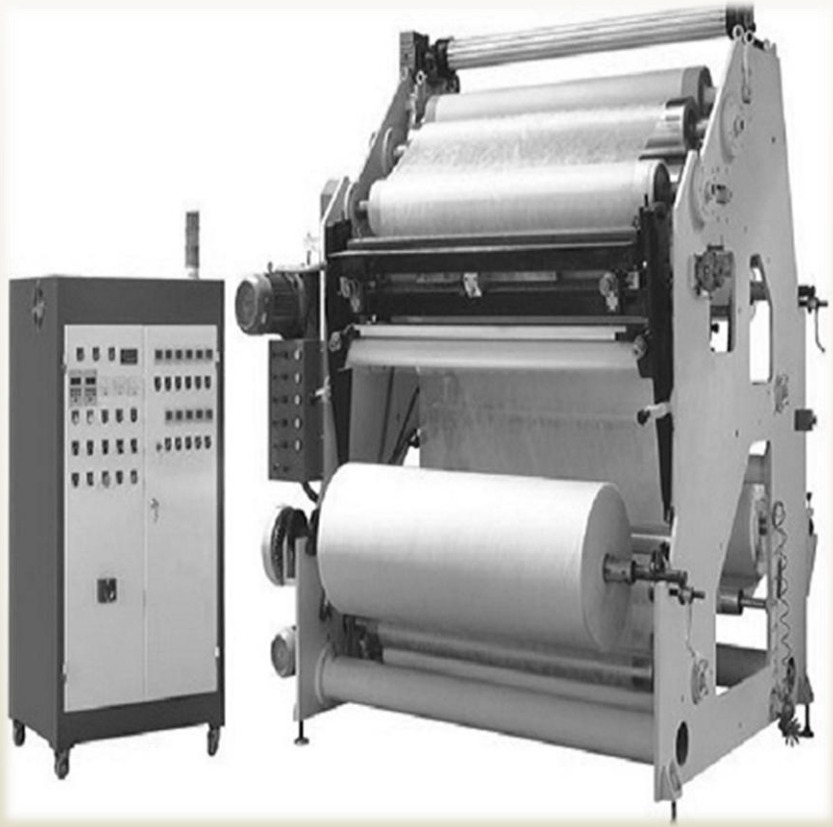
The prepared part is streak dried and heated to set the preliminary and prepared the part for the hot dipping operation. The prepared part, hot from the groundwork change heat, is inundated in the fluid material

Advantages:

✓Dip coating gives a defensive shield that opposes consumption.
✓Insulates against warmth, frosty, stress and electrical streams.
✓Adaptable to high volume requests obliging quick conveyance.
✓Durable and UV safe.
✓Alternative hues and completions (reflexive and matt) can be made effortlessly and financially.
✓An extensive variety of thickness, compositions

Hot Melt Coating Systems

Hot melt coating is widely used industrial coating mechanism, in this the coat to be applied is heated to its melting point then the substrate is put into this melted coating solution and later it allowed to dry at uniform rate forming a smooth coat on the substrate.



Advantages

- ✓Environmentally friendly due to water and solvent-free adhesives
- ✓Low coating weight needed
- ✓Elimination of dryer / low energy requirements
- ✓No thermal stress of substrate
- ✓High production speed possible
- ✓Permanent or non permanent coating possible

Web Coating Machine

Web coating is the continuous process of applying a coating material – whether its of a solid or liquid substance – onto a particular substrate.

Web coating is able to apply, coating over a extensive variety of numerous different kinds of substrates, such as plastic, paper, fabric, metal etc.

Web coaters have became quite useful and preferable choice of industry due to its economical approach, high efficiency, cost effectiveness and high production rate.

Features

- ✓Spot or full-flood coating capabilities
- ✓Servo driven with circumferential and lateral registration.
- ✓Remote-mounted touch screen controller
- ✓Idler rollers for proper web routing
- ✓Dual "Smart Pump" pneumatic circulation system
- ✓Harris & Bruno Chamber System

Fabric Coating Machine

To enhance and strengthen the fabrics, taps, textile products and other flexible substrates, it is mandate that some type of the coating and lamination required, coating helps the industrial products to achieve the desired level of strength, surface tension, look and feel and improve the durability..

KERONE since last 40 years, with its engineering excellence helping the industries for their need of coating and laminating machineries for the tape, fabric, textile products, and other flexible substances with deep level of the customization.

Fabric coating systems utilize any from the below coating techniques: Hot melt Coating Systems, Slot Die Coating Machine, Reverse Roll Coating Machine, Knife Over Roll Coating and immersion/dip coating

Features:

- ✓Perfect uniform coating across the whole width
- ✓Vibration free rigid doctor blade construction.
- ✓Special arrangement to set very fine gap across the width
- ✓Quick lifting system
- ✓Micro adjustment individual and together left / right
- ✓Knife on air arrangement
- ✓Dual knife system with option of thin /thick coating

Industries we are serving

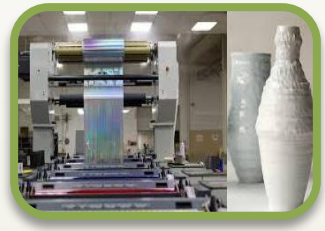

Pharmaceutical


Tyre and Rubber


Foods and Beverages


Textile


Wood and Paper


Ceramic and Printing


Paints and Chemicals


Refineries


Foundries


Glass and Plastic


Automobile


Electronics

Industries we are serving cont…

Below are the few of industries/ Industrial applications we are serving :

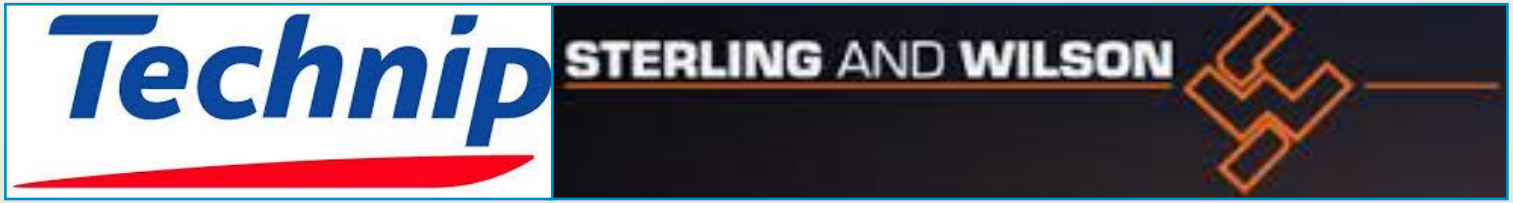
Paint Baking	Powder Coat Curing	Paper Drying	Coating Drying	Paper Conversion	Printing Ink Drying
Curing of Coating on Moulds, Adhesive Drying.	Pre-drying of Dyed Fabrics	Heating of PET Perform	Thermoforming	PVC Preheating	PVC Embossing
Rubber Curing	Textile Coating & Processing	Vacuum Heating Equipments	Oil & Gas Industries	Food Processing	Pharma Industries
	Oil and Gas	Plastic Annealing	Plastic Welding	Ceramic Curing	

Industries we are serving cont…

Below are the few of industries/ Industrial applications we are serving :

Paint Baking	Powder Coat Curing	Paper Drying	Coating Drying	Rubber Curing
Ceramic Curing	Printing Ink Drying	Curing of Coating on Moulds, Adhesive Drying.	Pre-drying of Dyed Fabrics	Textile Coating & Processing
Thermoforming	PVC Preheating	PVC Embossing	Vacuum Heating Equipments	Heating of PET Perform
Oil & Gas Industries	Food Processing	Pharma Industries	Oil and Gas	Plastic Annealing and Welding

Trusted Partner of following consultants



Our Clients


TATA MOTORS
WOCKHARDT
ESSAR STEEL
SAINT-GOBAIN GLASS
SUZLON
ALSTOM
Kirloskar
LARSEN & TOUBRO
GM
Jasubhai ENGINEERING
BANCO
HADEN international group
FIAT
LOGICON
murugappa
Piramal Healthcare
CAIRN Energy for India
LUPIN PHARMACEUTICALS, INC.
Bharat Petroleum
BHARAT PETROLEUM CORP. LTD
Reliance Industries Limited
WIPRO
Cipla
SAF
IOT
Flamingo Pharmaceuticals Ltd
Firmenich
GAYLORD INDUSTRIES, INC.
DR. REDDY'S
इंडियनऑयल IndianOil
BKT GROWING TOGETHER
Pidilite
Camlin
Ford
BARC
IFF
HP Pelzer Automotive Systems, Inc.
MEDREICH
Dynetics
ACG Worldwide
L&T Power
torrent
sysmech
ARVIND
VOLTAS LIMITED A TATA Enterprise
SARDA
Vertellus
moserbaer Technologies
CUMI
TAL
JINDAL STEEL & POWER
ADITYA BIRLA HINDALCO
ACG Worldwide
NIPPON PAINT
Nestlé

Serving Across Continents

Thank you