MICRO POWDER TECH

COMPANY PROFILE

MICRO POWDER TECH is a firm established in the year 1997 by **S.C.Jain** having experience since 1980 in production of Paints & Coatings.

Our range of machinery is essentially small scale and low cost compared with all other major suppliers & a unique package for the manufactures entering Powder Coating Production.

A range of machinery designed by ourselves **Twin Screw Extruder MPT-30PC, MPT-45,MPT-60 & MPT-65 and Air Classifying Mill (Grinding Mill)** with low power consumption to produce quality Powder Coating Paints & incorporating design features for easy clean down & maintenance with a Technical Knowhow. This together with a technology package tailored to suit the requirements of the small medium size entrants into the Powder Coating Industry.

We have laboratory with most modern equipment for R & D. New formulation and testing facilities are provided to customers. Whether its small scale rapid response production or large scale bulk powder manufacturer.
MICRO POWDER TECH has experience to supply an efficient system to match customers requirements. We can offer you the right equipment, which is up to date, reasonable, simple and at extremely competitive price.

We export to **Japan, Bangla Desh, Russia, Ukraine ,Iran, Africa, Europe & USA** which are in production with successful quality compatible.

With guaranteed performance to match the international Standard quality of Powder Coating Production Package :

 # A Big Production Package (400 – 500 Kg./Hr.)
 # A Large Production Powder Coating Plant (300 – 350 Kg./Hr.)
 # A Medium Production Powder Coating Plant (140 – 180 Kg./Hr.)
 # A Lab-Small Production Powder Coating Plant (Min. 0.400 Kg. Max. 30 – 50 Kg./Hr.)
 # A Lab Model Powder Coating Machine (Min. 0.250 Kg. Max. 8-10 Kg./Hr.)

Each Powder Coating Plant comprises : * Premixer * Twin Screw Extruder * Chill Roll Belt
*** ACM MPT- Grinding Mill * Sieving Machine with Technical Knowhow.**

In **INDIA** more then 65% Powder Coating Production Plants are in chain of our installations & are running successfully.

We are very much Sincere, Honest, Hardworking and Innovating to solve problems of our clients. We maintain delivery schedule. We give guarantee for the performance of our products.

We are manufacturing product, what small- scale industry cannot manufacture and big manufacturer cannot provide. We manufacture only tailor made and difficult products with performance guarantee.

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Powder Coating Production 30 - 40 Kg. / Hr. Plant

1. **Pre-mixer SS-30**
2. **Twin Screw Extruder MPT 45PC with Chill Roll & Crusher**
3. **ACM Grinding Mill MPT-07**
4. **Sifter-20 (Sieving Machine)**

Pre-mixer SS-50

Twin Screw Extruder MPT 30PC with Chill Roll & Crusher

ACM Grinding Mill MPT-07

Sifter-20 (Sieving Machine)

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Powder Coating Production 30 - 40 KG. / Hr. Package

TECHNICAL DATA		
Premixer High Speed Batch Mixer		
Model		**SS-50**
Main Drive	KW	3.75 / 5
Vessel material		Stainless Steel
Vessel Volume		100 Ltrs. Approx.
Batch Capacity		40-50 Kg. Per Cycle
Twin Screw Extruder		
Product/Model		**Twin Screw Extruder MPT- 30 PC**
Capacity	Kg. / Hr.	30 - 40
Extruder	Type	Twin Screw
Model		MPT- 30 PC
L / D		5: 1
Screw Dia.	MM	20
Screw speed	RPM	0-450
Main power	KW	5.5
Drive type		AC frequency drive
Make		Schneider
Heating power	KW	2.5
Heating Type		Cartridge heaters
No of heating/cooling zones		3 zone
Volumetric Feeder with Hopper		
Capacity	Kg. / Hr.	20 - 100
Power	KW	0.37
Hopper volume	Litre	30
Screw shaft		Hexagonal section hard chrome
Screw elements		Feed screw, paddles intermeshing
Barrel		Split type opening, Segmented liner insert.
Vol Screw Feeder		Speed variable screw feeder
Gear box		High efficiency, forced lubrication with cooling arrangement
Control voltage	V	420
CHW flow rate	LPH	1400
Temperature	ºC	10 to 12

Continue P-2 Production 30-40 Kg./Hr. Package

MICRO POWDER TECH

Continue P-2 Production 30-40 Kg./Hr. Package

Controls & Instrumentation		
PID Control		PID Controlled 3 Nos.
Speed		AC frequency drive
Temperature		PID Digital temp.
Display provided in panel		
Motor speed		Screw Digital RPM Meter
Output voltage	Volt	415 Volt
Frequency	Hz	50 Hz
Current		AMP. Digital Meter
Power		3Phase indicator, Volt meter
Drive temp.		Frequency drive internal feature
Hour counter		Digital / Analogue
Feeder		Screw Digital RPM Meter
Protections (Electrical and Machine Interlocks)		
Drive temp.		Drive internal protection
Motor load		Drive internal protection
Under voltage		SPP
Earth fault		SPP
Mains supervision		MCB
Phase supervision		Digital volt meter, Phase indicator
Space Requirement		
Extruder	MM	L-1000 X W-850 X H-1700
Assembly Weight		
Extruder	Kgs.	App. 750 Kg.
CHILL ROLL & FLAKER		
Model		**CR TS - 30**
MOC		S.S. Chill Roller
Main drive	KW	0.37
Flaker power	KW	0.37
CHW flow rate	LPH	600 liters/h
--Do—temperature	ºC	10 to 12
Chill Roller melt squeeze	Size mm	100 X 400, 1 Nos.
Chill Roll Cool		250 X 400, 1 No.
Space Requirement		
Flaking system	MM	L-800 X W-750 X H-900
Assembly weight		
Flaking system	Kgs.	App. 250 Kg.

Continue P-3 Production 30-40 Kg./Hr. Package

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Continue P-3 Production 30-40 Kg./Hr. Package

ACM Grinding Mill		
Model		**ACM MPT- 7**
Mill Motor	KW	5.5
Blower Motor	KW	3.75
Classifier Motor	KW	0.75
Feeder Motor	KW	0.37
Plus Jet Valve		04 Nos. Solenoid Valve
Cyclone		Stainless Steel
Dust Collector Filter Area		15 Sq. Mtrs.
Feeder Unit		Screw feeding S.S. Constructed
Classifier	RPM	700 - 3000
Air Flow	CFM	450
Overall Dimensions	Mtrs.	L-2.1 X W-2.0 X H- 2.5
Production Capacity	Kg. / Hr.	50 - 60 Kg. / Hr.
Sieving Machine (Sifter)		
Model		**Sifter - 20**
Main Motor	KW	0.37
Contact Part		Stainless Steel
Structure Body		Mild Steel & Casting
Capacity	Kg. / Hr.	60 - 80 Kg. / Hr.

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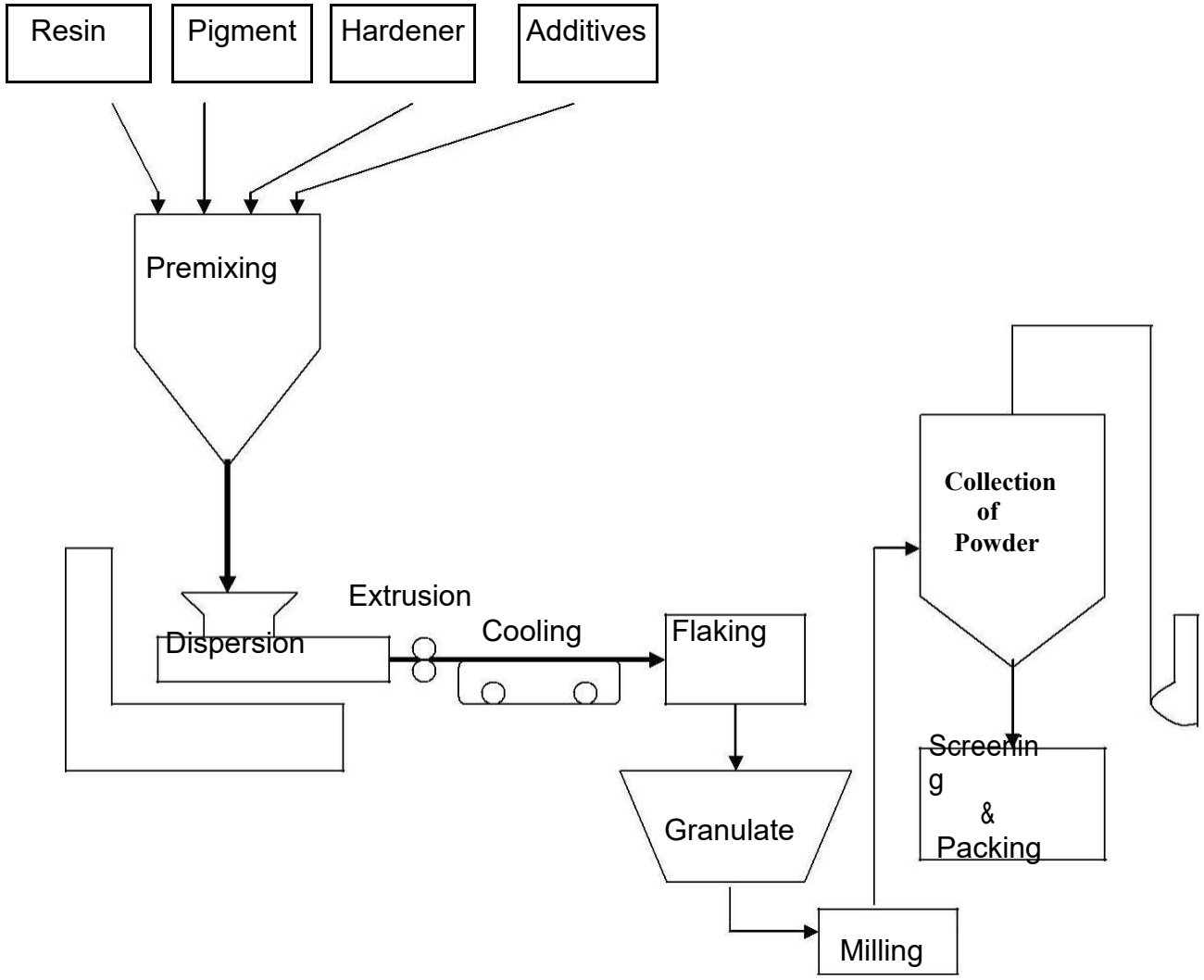
MANUFACTURE OF POWDER



****PREMIXING**

At first the ingredients are weighed & premixed in an absolute dry condition.

****EXTRUSION**

The premixed materials are then continuously charged in the extruder, Here the binder melts and dispersed with all other ingredients.

****COOLING & FLAKING**

The extruder material is chilled very fast & flattened as sheet by chilled rollers on conveyor belts. The chilled product is crushed into flakes.

****MILLING & SIEVING**

The flakes are then milled and sieved up to required particle sizes.

****PACKING**

The sieved powder is then packed in Poly bag & corrugated box.