MICRO POWDER TECH

Company Profile

MICRO POWDER TECH is a firm established by S.C.Jain having 41 years of experience in manufacturing of 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-55** 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, Europe & Riverside CA USA which are in production with successful quality compatible.

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

A Large Production Powder Coating Plant
A Medium Production Powder Coating Plant
A Lab-Small Production Powder Coating Plant
A Lab Model Powder Coating Machine

(260 – 340 Kg./Hr.)
(150 – 200 Kg./Hr.)
(Min. 0.400 Kg. Max. 30 – 40 Kg./Hr.)
(Min. 0.400 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 70% Powder Coating Production Plants are in chain of our installations & are running successfully.

Our Powder Coating Plant has been exported to countries like Japan, Russia & Saudi Arab, Bangladesh, Ukraine Iran & USA.

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.

MICRO POWDER TECH

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Powder Coating Production Video: http://youtu.be/ayap0gGlmkY

Powder Coating Production 150 - 200 Kg. / Hr. Plant

- 1. Premixer SS-50
- 2. Twin Screw Extruder MPT 45PC with Chill Roll & Flakr
- 3. ACM Grinding Mill MPT-10 AND Sifter-30 (Sieving Machine)





PREMIXER SS-50

MPT TWIN SCREW EXTRUDER MPT45PC WITH CHILL ROLL & FLAKER



MICRO POWDER TECH

Powder Coating Production 150 - 200 Kg. / Hr. Package

TECHNICAL DATA

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Premixer High Speed Batch	<u>Mixer</u>		
Model		SS-50	
Main Drive		3.75 KW	
Cooling Arrangement		N/A	
Vessel material		Stainless Steel	
Vessel Volume		120 Ltrs. Approx.	
Batch Capacity		50 Kg. Cycle	
Twin Screw Extruder			
Product/Model		Twin Screw Extruder	
	_	MPT-45 PC	
Capacity	Kg/h	150 - 200	
Extruder	Туре	Twin Screw	
Model		MPT-45PC	
L/D		17.5:1	
Screw dia	mm	45	
Screw speed	rpm	0-450	
Screw & Barrel Material	Type	Tool Steel	
Main power	Kw	15	
Drive type		AC frequency drive	
Make		Schneider Electric	
Heating power	Kw	4.8	
Vol. feeder with hopper			
Hopper volume	Liter	60 Ltrs.	
Power with AC frequency drive	Kw	0.37 KW	
Capacity	Kg/h	20-300 Kg./h	
No. of heating/cooling zones		3 zone	
Heating Type		Cartridge Heaters	
Screw shaft		Hexagonal section hard chrome	
Screw elements		Feed screw, Paddle 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 Volt 3 Phase	
CHW flow rate	Lph	1400 Ltrs./h	
Temperature	°C	10 to 12 °C	
romporaturo		10 10 12 0	

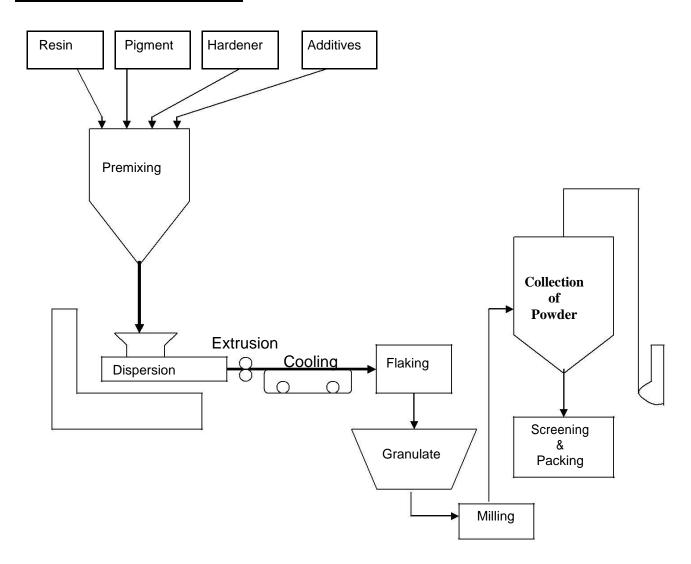
Controls & Instrumentation		
PID Control		PID Controlled 2 Nos.
Speed		AC Frequency drive
Temperature		PID Digital Temp.
Display provided in panel		J I
	Motor speed	Digital Screw RPM Meter
	Output voltage	415 Volt
	Current	AMP Digital Meter
	Power	3 Phase Digital indicator, Volt meter
	Drive temp.	Frequency drive internal feature
	Hour counter	Digital / Analogue
Protections (Electrical and Machine	e 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, 3Phase indicator
Chill Roll & Flaker		
Chill Roll & Flaker		
Chill Roll & Flaker		
Chill Roll & Flaker Model		CR TS-45
		CR TS-45 S.S. Chill Roller
Model	Kw	
Model MOC	Kw Kw	S.S. Chill Roller
Model MOC Main drive with AC frequency drive		S.S. Chill Roller 1.5 KW
Model MOC Main drive with AC frequency drive Flaker power	Kw	S.S. Chill Roller 1.5 KW 0.37 KW
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate	Kw Lph	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature	Kw Lph ⁰C	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze	Kw Lph ⁰C	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1Nos.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze	Kw Lph °C Size mm	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1Nos.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze	Kw Lph ⁰C	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1Nos.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze Chill Roll Cool	Kw Lph °C Size mm	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1Nos.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze Chill Roll Cool	Kw Lph °C Size mm L x W x H, in mm	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1Nos. 400 X 700, 1 No.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze Chill Roll Cool Space requirement Extruder	Kw Lph °C Size mm L x W x H, in mm MM	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1Nos. 400 X 700, 1 No.
Model MOC Main drive with AC frequency drive Flaker power CHW flow rate Temperature Chill Roller melt squeeze Chill Roll Cool Space requirement Extruder Flaking system	Kw Lph °C Size mm L x W x H, in mm MM MM	S.S. Chill Roller 1.5 KW 0.37 KW 60 liter / min. 10 to 12 °C 165 X 700, 1 Nos. 400 X 700, 1 No.

ACM Grinding Mill	
Model	ACM MPT-10
Mill Motor	7.5 KW
Blower Motor	5.5 KW
Classifier Motor with AC frequency	5.5 KW
drive	0.75 KW
Feeder Motor with AC frequency	
drive	0.37 KW
Plus Jet Valve	6 Nos. Solenoid Valve
Cyclone	Stainless Steel
Dust Collector	15 Sq. Mtrs Filter Area
Feeder Unit	Screw feeding S.S. Constructed
Classifier RPM	700 - 3000
Air Flow	750 CFM
Overall Dimensions Mtrs.	L-2.1 X W-2.0 X H- 2.75
Rotary Air Lock Valve	0.37 KW
Production Capacity	140 - 180 Kg. / Hr.
Sieving Machine (Sifter)	
Model	Sifter - 30
Main Motor	0.75 KW
Contact Part	Stainless Steel
Structure Body	Mild Steel & Casting
Capacity	150 - 250 Kg. / Hr.

- Free Spare Parts :1. One Pair of Screw Set.
- 2. Cartrage Heater One set (10 Nos.)
- 3. Hammer set one.

Product specifications are subject to change without prior notice

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 extruderHere 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.

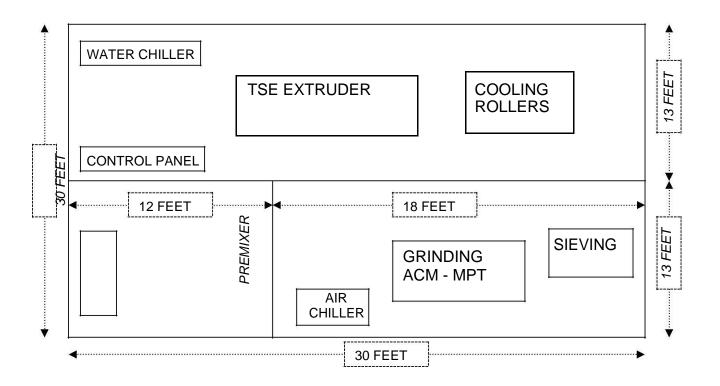
MILLING & SIEVING

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

PACKING

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

PLAN & LAYOUT FOR MACHNES



EXCLUSIONS OUR PACKAGE

THE ITEMS LISTED BELOW ARE REQUIRED

- 1. WATER CHILLER 5 TON
- 2. AIR CHILLER 2.5 TON
- 3. ELECTRONIC BALANCE 1 KG.(Lees count 0.1 Grams)
- 4. WEIGHT BALANCE UP TO 10 KG. WITH WEIGHT UP TO 10 KG.
- 6. S. S Tank for Chips collection (2 Nos.) Size L-900mm X W- 600mm X H-500mm
- 5. PLASTIC CARRET 25 NOS. SIZE- 600X400X300 MM.
- 6. PLASTIC BARREL 200 LTRS 5 NOS.
- 7. PVC PIPE 3/4" 10 MTRS
- 8. JHABBA 4 NOS.
- 9. FILTER CLOTH 160 MESH- 20 MTRS 400 MESH- 5 MTRS.
- 11. ELECTRICAL WIRING & FITTINGS.
- 12. HOSE PIPE 4" -- 3 Mtrs. For Air Chiller.

LABORATORY TESTING INSTRUMENTS

- 1. GLOSS METER 60 HEAD.
- 2. TUBLER IMPACT TESTER 250 KG, CM.
- 3. ELECTRICCAL OVEN 250 C AIR CERCULATING. 14"X14"
- 4. TEST SIEVE 25 MICRON 4".
- 5. GEL TIME APPRATUS
- 6. BALANCE 1 MG.
- 7. MELTING POINT APPARATUS
- 8. POWDER COATING SPREY GUN & BOOTH (LAB MODEL)
- 9. KITCHEN MIXY
- 10. COMPRESSER 2 HP.

Note: Laboratory Testing Instruments are No. 2, 3, 8, 9 & 10 are must.