## **Company Profile**

**MICRO POWDER TECH** is a firm established by **S.C.Jain** having 35 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-40PC**, **MPT-45**, **MPT-55PC** 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 which are in production with successful quality compatible.

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

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

( 350 – 450 Kg./Hr.) ( 160 – 200 Kg./Hr.) ( 80 – 120 Kg./Hr.) ( Min. 0.400 Kg. Max. 40 – 50 Kg./Hr.) ( 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 103 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

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 : <u>http://youtu.be/ayap0gGlmkY</u>

# Powder Coating Production 80 - 120 Kg. / Hr. Plant

- 1. Premixer SS-30
- 2. Twin Screw Extruder MPT 40PC with Chill Roll & Flakr
- 3. ACM Grinding Mill MPT-7
- 4. Sifter-20 (Sieving Machine)



PREMIXER SS-30

TWIN SCREW EXTRUDER MPT40PC WITH CHILL ROLL & FLAKER



ACM GRINDING MILL MPT-7



SIFTER-20 (SIEVING MACHINE)

# **MICRO POWDER TECH**

## Powder Coating Production 80 - 120 Kg. / Hr. Package

	TECHNICA	AL DATA
Premixer High Speed Batch	Mixer	
Model		SS-30
Main Drive		3.75 KW
Cooling Arrangement		Cooling Jacket
Vessel material		Stainless Steel
Vessel Volume		80 Ltrs. Approx.
Batch Capacity		50 Kg. Cycle
Twin Screw Extruder		
Product/Model		Twin Screw Extruder
		MPT-40 PC
Capacity	Kg/h	80 - 120
Extruder	Туре	Twin Screw
Model		MPT-40PC
L/D		17.5:1
Screw dia	mm	40
Screw speed	rpm	0-450
Main power	Kw	9.375
Drive type		AC frequency drive
Make		Schneider
Heating power	Kw	3.5
Vol. feeder with hopper		
Hopper volume	Liter	30 Ltrs.
Power with AC frequency drive	Kw	0.37 KW
Capacity	Kg / h	20-100 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	220 Volt
CHW flow rate	Lph	50 Ltrs./ min.
Temperature	°C	10 to 12 °C
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Continue P-2 Production 80-120 Kg./Hr. Package

Controls & Instrumentation		
PID Control		PID Controlled 2 Nos.
Speed Control		AC Frequency drive
Temperature		PID Digital Temp.
Display provided in panel		
	Motor speed	Digital Screw RPM Meter
	Output voltage	415 Volt
	Frequency	50 Hz
	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	o Intorlocks)	
	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		
Model		CR TS-40
MOC		S.S. Chill Roller
Main drive with AC frequency drive	Kw	0.75 KW
Flaker power	Kw	0.37 KW
CHW flow rate	Lph	40 liter / min.
Temperature	°C	10 to 12 °C
Chill Roller melt squeeze	Size mm	110 X 600, 1Nos.
Chill Roll Cool		300 X 600, 1 No.
Space requirement	L x W x H, in mm	
Extruder	MM	L-1500 X H-1700 X W-650
Flaking system	MM	L-1000 X W-1100 X H-900
Assembly weight	Kgs or tons	
	<b>}</b>	
Extruder	Kgs	App. 700 Kg.

Continue P-3 Production 80-120 Kg./Hr. Package

ACM Grinding Mill	
Model	ACM MPT-7
Mill Motor	5.5 KW
Blower Motor	3.75 KW
Classifier Motor with AC frequency drive	0.75 KW
Feeder Motor with AC frequency drive	0.37 KW
Plus Jet Valve	4 Nos. Solenoid Valve
Cyclone	Stainless Steel
Dust Collector	10 Sq. Mtrs Filter Area
Feeder Unit	Screw feeding S.S. Constructed
Classifier RPM	700 - 3000
Air Flow	450 CFM
Overall Dimensions Mtrs.	L-2.1 X W-2.0 X H- 2.5
Production Capacity	80 - 100 Kg. / Hr.
Sieving Machine (Sifter)	
Model	Sifter - 20
Main Motor	0.37 KW
Contact Part	Stainless Steel
Structure Body	Mild Steel & Casting
Capacity	100 - 150 Kg. / Hr.

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

## EXCLUSIONS OUR PACKAGE THE ITEMS LISTED BELOW ARE REQUIRED

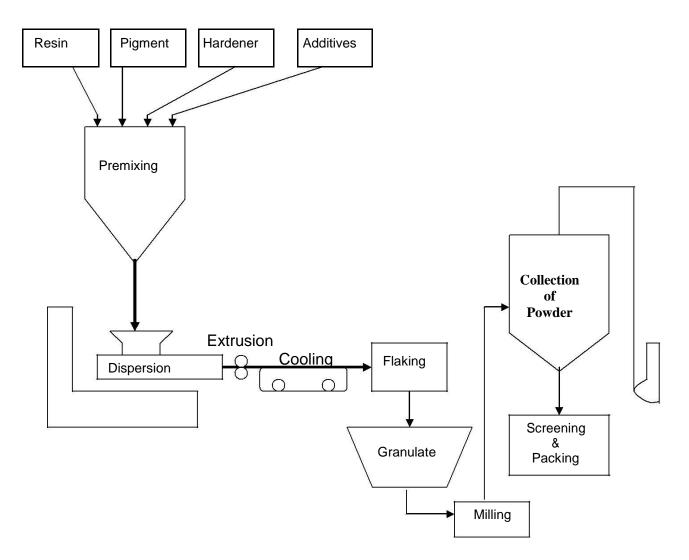
- 1. WATER CHILLER 3 TON
- 2. AIR CHILLER 2 TON
- 3. POLYTHEN SEALING MACHINE 20"
- 4. ELECTRONIC BALANCE 1 KG.( Lees count 0.1 Grams)
- 5. WEIGHT BALANCE UP TO 10 KG. WITH WEIGHT UP TO 10 KG.
- 6. PLASTIC CARRET 25 NOS. SIZE- 600X400X300 MM.
- 7. PLASTIC BARREL 200 LTRS 5 NOS.
- 8. PVC PIPE 3/4" 20 MTRS
- 9. JHABBA 4 NOS.
- 10. FILTER CLOTH 140 MESH- 20 MTRS
  - 160 MESH- 20 MTRS
    - 400 MESH- 5 MTRS.
- 11. ELECTRICAL WIRING & FITTINGS.

### 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.

## 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

