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Powder Coating Production 140 - 180 Kg. / Hr. Plant

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



PREMIXER SS-50



MPT TWIN SCREW EXTRUDER MPT45PC WITH CHILL ROLL & FLAKER



MPT ACM-10 GRINDING MILL



SIEVING MACHINE

MICRO POWDER TECH

Powder Coating Production 140 - 180 Kg. / Hr. Package

TECHNICAL DATA

Premixer High Speed Batch Mixer		
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	140 - 180
Extruder	Type	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

Continue P-2 Production 140-180 Kg./Hr. Package

Continue P-2 Production 140-180 Kg./Hr. Package

Controls & Instrumentation		
PID Control		PID Controlled 2 Nos.
Speed		AC Frequency drive
Temperature		PID Digital Temp.
Display provided in panel		
	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 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		
Model		
MOC		CR TS-45
Main drive with AC frequency drive	Kw	S.S. Chill Roller
Flaker power	Kw	1.5 KW
CHW flow rate	Lph	0.37 KW
Temperature	°C	60 liter / min.
Chill Roller melt squeeze	Size mm	10 to 12 °C
Chill Roll Cool		165 X 700, 1Nos.
		400 X 700, 1 No.
Space requirement		
	L x W x H, in mm	
Extruder	MM	L-1750 X H-2700 X W-760
Flaking system	MM	L-1500 X W-1270 X H-1150
Assembly weight		
	Kgs or tons	
Extruder	Kgs	App. 1500 Kg.
Flaking system	Kgs	App. 500 Kg.

Continue P-3 Production 140-180 Kg./Hr. Package

Continue P-3 Production 140-180 Kg./Hr. Package

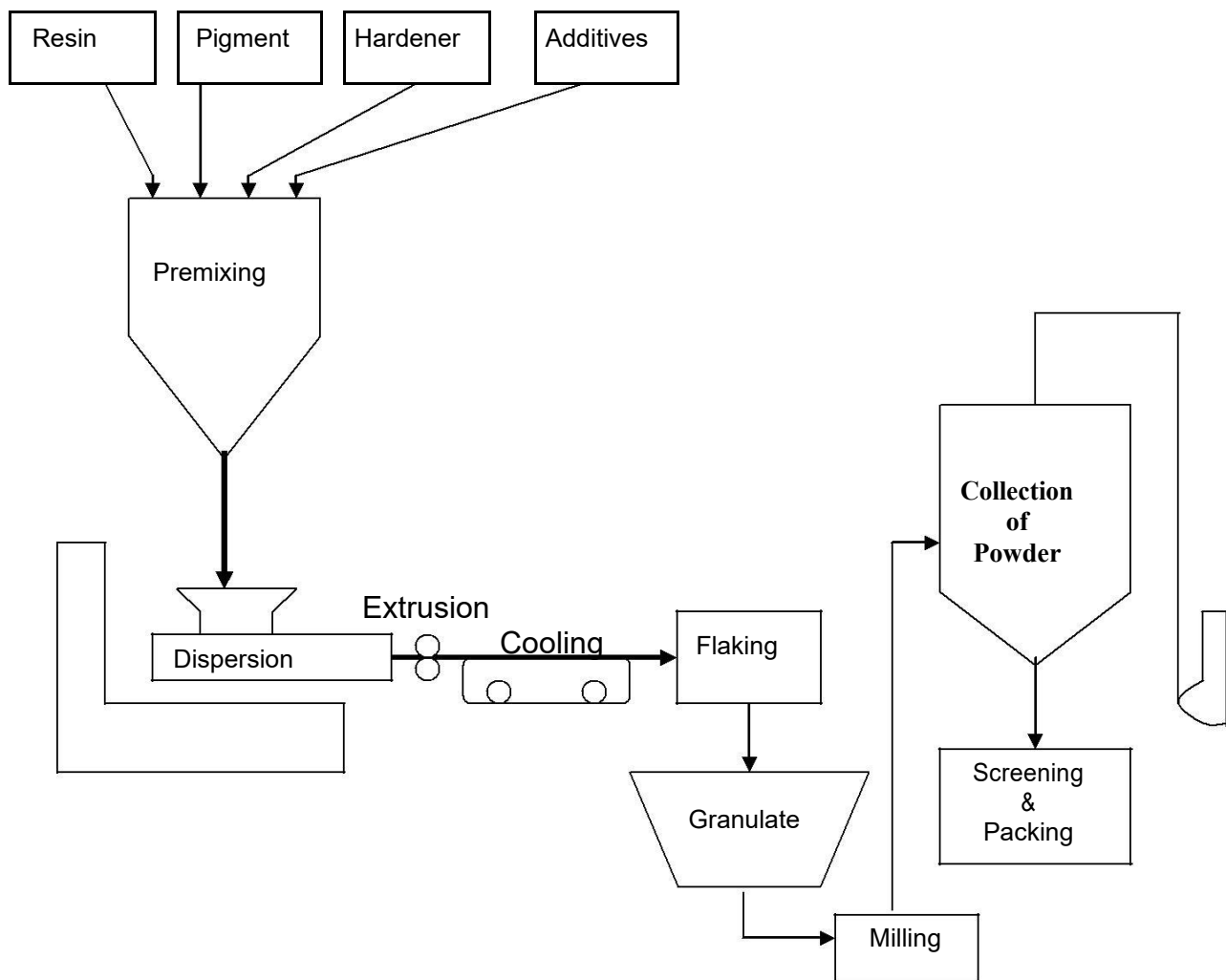
<u>ACM Grinding Mill</u>		
Model		ACM MPT-10
Mill Motor		7.5 KW
Blower Motor		5.5 KW
Classifier Motor with AC frequency drive		0.75 KW
Feeder Motor with AC frequency drive		0.37 KW
Plus Jet Valve		6 Nos. Solenoid Valve
Cyclone		Stainless Steel
Dust Collector		15 Sq. Mtrs Filter Area
Feeder Unit		Screw 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.
<u>Sieving Machine (Sifter)</u>		
Model		Sifter - 30
Main Motor		0.75 KW
Contact Part		Stainless Steel
Structure Body		Mild Steel & Casting
Capacity		150 - 200 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 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.

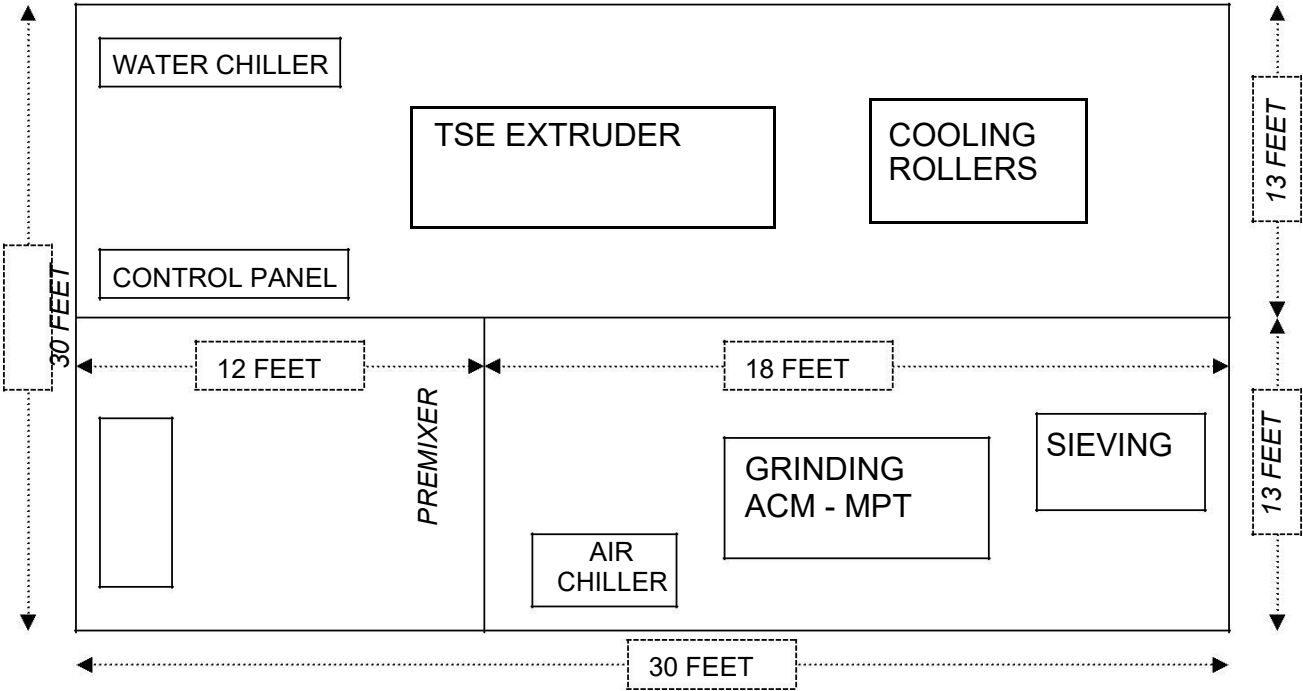
MILLING & SIEVING

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

PACKING

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

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 $\frac{3}{4}$ " – 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.