Complete Processing Solution for OSD













Marketed by:

AKSIS INDUSTRIAL TECHNOLOGIES PVT. LTD.

Our OEM in INDIA

- Technocrats in manufacturing Oral Solid Dosage process equipments
- 2016: Owned factory set-up of 5000 sq. ft. in Vasai with latest fabricating machines
- 50+ skilled employees
- An ISO 9001:2008 certified company
- Producing quality equipment for pharmaceutical formulations, API, bulk drugs and chemical & food industries in compliance with cGMP norms
- Fabricating equipment with international standards like ASME, ASME-BPE, TEMA with Industrial automation level 4 comprising norms of 21CFR Part11
- We have exported equipment with CE certification

Solid Oral Dosages Process Solutions



Our Speciality

Processing and packaging solution for Effervescent Tablets

- Effervescent tablet processing machine (EFF-PRO)
- Automatic tablet tube filling and capping machine (EFF-PACK)

Process equipment for Tablets & Capsules

- Granulating equipment (RMG and FBP)
- Drying (FBD, VTD, ATD's)
- Milling (Co-Mill, Multi Mill and Oscillating Granulators)
- Blending (Octagonal Blender, Conta-Pillar Blender, Double Cone Blender, V-Cone Blender & Ribbon Blender)
- Coating (Tablet Auto-Coater, Conventional coating pans)
- Starch paste kettles

Material handling Equipments

- Lifting and Positioning devices, Lifting and Tippering devices, IPC's and square bins and Vacuum conveying systems

Palletization segments

- Extruder & Spheronizer



Rapid Mixer Granulator

Our OEM in INDIA's Rapid Mixer Granulator is designed and developed for mixing of ingredients as well as wet granulation for tablets/capsules manufacturing

- Range: 25 Ltr to 1250 Ltr
- cGMP design
- Online co-mill option
- Side discharge valve
- Uniform mixing and uniform granules
- 21CFR PART 11 based PLC-HMI Panel









Rapid Mixer Granulation (R&D Scale)

Our OEM in INDIA's Lab RMG is a premium scaled down version of production scale models, which provides exact quality of products. Range: 1 Ltr to 25 Ltr with interchangeable bowls



Process Dryers - Fluidized Bed Dryer/ Processor and VTD



Salient features:

- FBD / FBP Range: 25 kg to 600 kg
- FBP with top / middle / bottom spraying
- Optional coniduor type bottom plate
- CIP / WIP able
- cGMP compliance
- 21CFR part 11 based PLC-HMI panel
- Steam / Coil heating system
- Motorized racking option

Vacuum Tray Dryer



- Range: 24, 48 & 96 Trays
- Oil heating system
- R&D range: 3, 6, 9 & 12 Trays

R&D Fluid Bed Dryers / Processors



- Range: 5 Kg to 25 Kg

Blending

Solid dose and powder dose pharma products contain multiple ingredients.

These include an Active Pharmaceutical Ingredient (API) and numerous excipients which include fillers, binders, lubricants or disintegrates to name a few. Blending is a process which mixes the API and excipients to ensure there is a homogeneous mixture of the all ingredients for each manufacturing process. Blending is a process that can be carried out numerous times within a manufacturing process when new excipients need to be added to the blend.

The various types of Blenders:

- Conta Pillar Blender with interchangeable bins
- Double Cone Blender
- Octagonal Blender
- V-Cone Blender
- Ribbon Blender









Conta Pillar Blender with interchangeable bins

- Single Support

Blending

The blending process's critical process parameters are identified as blender speed and blend time. To ensure a homogeneous mixture from a blending process the incorporation of various blenders evolves, which can cover blend uniformity may be necessary as excessive blending can lead to electrostatic build-up, attrition and over lubrication.



Double Cone Blender



Octagonal Blender



V-Cone Blender



Ribbon Blender

Granulating Support Equipment



Vibro Sifter

- Range: 12 inch - 60 inch
- Vacuum rated also available



Multi Mill

- Range: 1 - 7.5 HP motors



Co-Mill

- Lab range: 25 Kg/Hr
- Production range: 100 Kg/Hr - 1000 Kg/Hr



Starch Paste Kettle

- Lab range: 25 Ltr
- Production range: 25 Ltr - 250 Ltr

Material Handling Equipment



Lifting and Positioning Device

- Motorized / Hydraulic option



Lifting and Tilting Device



Intermediate Product Container (IPC-Bin)



Pneumatic Conveying System

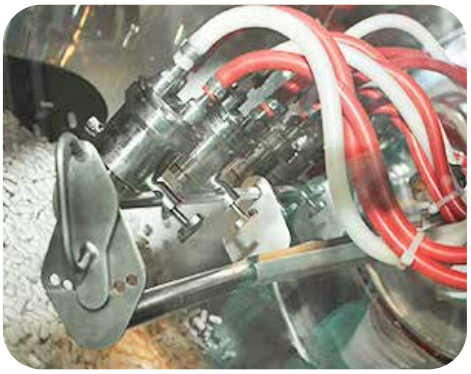
- Vacuum conveying system

Tablet Coating

Our OEM in INDIA's Auto-Coater with Interchangeable Pans

- Lab range: 12 inch - 24 inch with interchangeable pan
- Production range: 24 inch - 66 inch with interchangeable pan

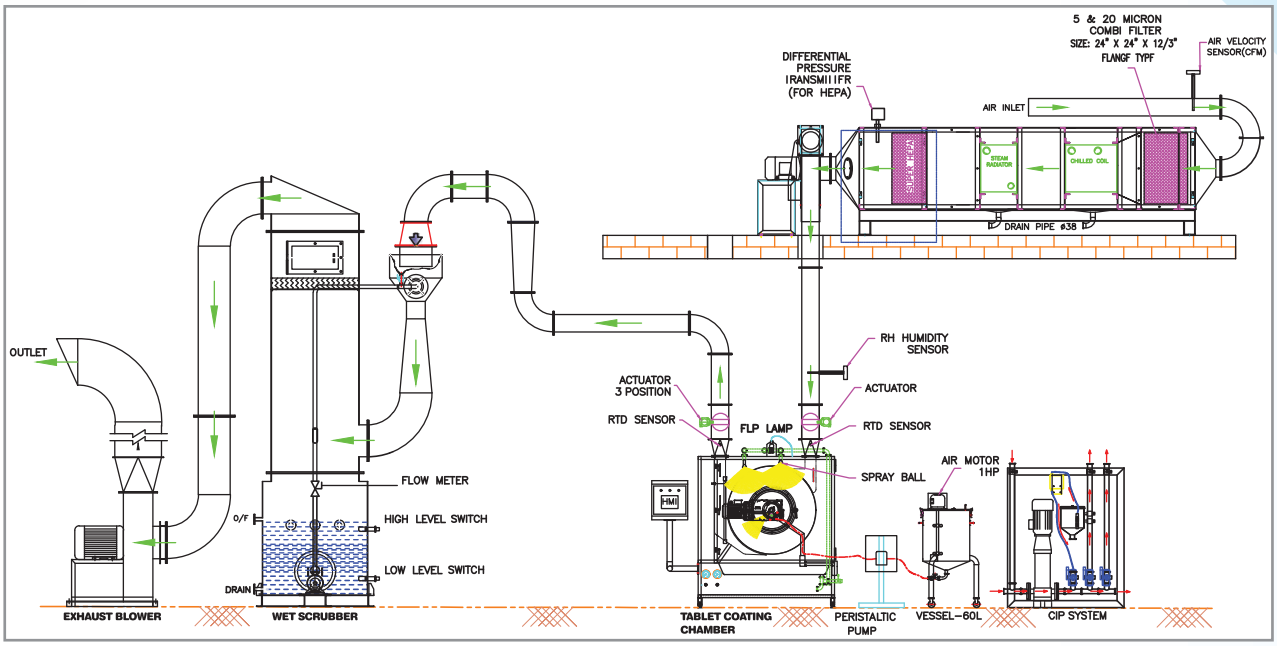








Process flow diagram for Autocoater



We also provide conventional coating pans with polishing pans

- Lab range: 6 inch-24 inch
- Production range: 24 inch-48 inch

Pelletizing Segment



Extruder and Spheronizer



Extrudes



Spheronized Pellets

Our OEM in INDIA's OSD Suit

Sr. No.	Equipment	Lab/Pilot Range	Production Range
	Granulation Line		
1	Rapid Mixer Granulator	1 Ltr - 25 Ltr	50 Ltr - 1600 Ltr
2	Fluidized Bed Dryer	5 Kg - 15 Kg	30 Kg - 500 Kg
3	Fluidized Bed Processor (Top/Middle/Bottom Coating options)	5 Kg - 15 Kg	30 Kg - 500 Kg
4	Conta Pillar Blender	1 Ltr - 50 Ltr	25 Ltr - 2500 Ltr
5	Double Cone Blender	2 Ltr - 50 Ltr	25 Ltr - 5000 Ltr
6	Octagonal Blender	2 Ltr - 50 Ltr	25 Ltr - 5000 Ltr
7	V-Cone Blender	Not Applicable	50 Ltr - 5000 Ltr
8	Ribbon Blender	Not Applicable	100 Ltr - 5000 Ltr
9	Tray Dryer	3 Trays - 12 Trays	24 Trays - 96 Trays
10	Vacuum Tray Dryer	3 Trays - 12 Trays	24 Trays - 96 Trays
	Granulating Support Equipment		
11	Vibro Sifter	12 inch	24 inch - 60 inch
12	Vaccum Vibro Sifter	Not Applicable	100 Kg - 1500 Kg
13	Multi Mill	Lab Model	Production Model
14	Sifter cum Multi Mill	Not Applicable	1000 Kg/Hr - 3000 Kg/Hr
15	Co-Mill	25 Kg/Hr	100 Kg/Hr - 1000 Kg/Hr
16	Starch Paste Kettle	25 Ltr	25 Ltr - 250 Ltr
	Material Handling Equipment		
17	Lifting and Positioning unit (Elevator) Loader for Mixer (RMG/Sifter/Multi Mill/Blender)	Not Applicable	100 Kg - 5000 Kg
18	Lifting and Tilting Device for FBD Bowls	Not Applicable	60 Kg - 500 Kg
19	Intermediate Product Container (IPC Bins)	10 Ltr - 25 Ltr	25 Ltr - 2000 Ltr
20	Square Bins (Conta Bins)	1 Ltr - 50 Ltr	25 Ltr - 5000 Ltr
21	Pneumatic Conveying System	25 Kg/Hr	500 Kg/Hr - 4000 Kg/Hr
	Tablet Coating		
22	Auto Coater	8 inch - 24 inch	24 inch - 66 inch
23	Conventional Coating Pans	6 inch - 24 inch	24 inch - 48 inch
24	Conventional Coating Polishing Pans	Not Applicable	24 inch - 48 inch

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