



# PHARMA MACHINERIES



**RIDDHI PLANETARY MIXER VJSHE MODE**



**PHARMA MACHINERIES**



**RIDDHI PLANETARY MIXER FOR POWDER**



## PLANETARY MIXER

### TECHNICAL OFFER

The Planetary Mixer is Ideal for mixing of wet/dry materials. It has a homogeneous mixing action. The Planetary motion of the beater enables faster and better mixing of material at a considerably lesser time. It is high shear mixer and is available in variable speed drive. Slow speed is used for dry mixing with less dust generation and faster speed for kneading operation during wet granulation. Portable mixing bowl with top mounted agitator has a dual advantage of material transfer and no risk of gland packing contamination.

### SALIENT FEATURES

- All contact parts of the mixing bowl and beater are made out of S.S. 304 material or S.S. 316, as per requirements. Scrapping blades can also be provided if required
- The Mixing bowl can be jacketed for electric/steam heating is ideal equipment for small batch sizes
- Manual lifting arrangement for agitators up to 50 Lts and motorize lifting
- The top of mixing bowl has an S.S. Lid with a charging hole
- The mixing bowl is provided with castor wheels and locking system for easy handling and transportation
- Flame Proof motor van be supplied as optional
- Capacity offered 20L to 500L

### APPLICATION

- Powder to powder mixing
- Manufacturing of starch paste with steam or electrically heated jacketed with or without a flush bottom valve for discharge
- Dry powder to wet phase mixing for wet granulation

### TECHNICALS SPECIFICATION

#### PLANETARY MIXER

Model	Gross. Cap. Liters	Working Cap. Liters	Over all Dimension LxWxH	RPM		HP	
				PLM	Beater	Main	Lifting
RD-PLM-1	120	100	1200x950x1650	12	36	3	1
RD-PLM-2	175	150	2000x1200x2250	12	36	3	1
RD-PLM-3	230	200	2100x1400x2350	12	36	5	1
RD-PLM-4	280	250	2350x1500x2500	12	36	7.5	1
RD-PLM-5	400	350	2700x1800x3000	12	36	10	1
RD-PLM-6	500	450	3000x2200x3400	12	36	10	1



• TECHNICAL SPECIFICATIONS :

S.N.	FEATURES	TECHNICAL SPECIFICATIONS
1.	Model No.	RDVHSE – 200
2.	Type	Non-FLP & GMP
3.	Gross Capacity	220 Litres
4.	Working Capacity	160 Litres
5.	Mixing Bowl Construction	- Main Vessel of S.S.316 Quality of 4mm thick. - Jacket Vessel of S.S.304 Quality of 3mm thick. - Insulation Vessel of S.S.304 Quality of 1.5mm thick.
6.	Jacket Suitability	Suitable for circulation of water. The jacket is not suitable for steam based application.
7.	Electric Heaters	6 KW electric heaters inbuilt / inhouse will be provided.
8.	Thk. & Quality of Insulation	40mm Thk. of Glass Wool Quality.
9.	Mat. Discharging Valve Size	Dia. 1.1/2" flush bottom valve manually operated.
10.	Wheels at Vessel	3 Nos. of Dia. 4 x 2"(W) of heavy duty & PU quality.
11.	Provision for Nozzles	We will provide inlet, outlet and vent nozzle for jacket. We will provide vacuum suction port, light & sight window at top dish.
12.	Main Motor	5 HP / 1400 RPM / 415 V / 50 Hz / 3 Ph. of Non-FLP Type.
13.	Lifting Drive	1 No. Hydraulic Cylinder for lifting main drive assembly with 1.5 HP Power Pack and necessary fitting and accessories.
14.	Beaters	2 Nos. of open type beater will be provided and rotating at the fix speed 45 / 90 RPM. (VFD is Optional)
15.	Scraper	We will provide scrappers of Teflon quality and rotating at fix speed 15 / 30 RPM.
16.	Homogenizer / Disperser Motor	3 HP / 1400 RPM / 415 V / 50 Hz / 3 Ph. of Non-FLP Type driven by pulley and V-belt.
17.	Gear Box	Worm Reduction Type of Yash / Equivalent Make.
18.	Homogenizer Speed	Fix speed of 1400 RPM. (VFD is Optional)
19.	Structure	We will provide Hard Chrome Plated Column and Sleeve for Drive lifting will be connected to the Hydraulic Cylinder & mounted on MS fabricated base. The drive mounted on MS plate and fixed to the top of the column assembly. The structure clad with SS 304 quality 18 SWG. thick sheet from outside.
20.	Drive Assembly	Drive assembly provided of MS quality duly clad with SS 316 quality eccentric plate and gear assembly mounted on bearing housing and connected to the reduction gear box through spur gear assembly.
21.	Vacuum Arrangement	We will provide suitable size vacuum suction port on top dish. Vacuum Pump is optional.
22.	Safety Guard	S.S.304 quality drive guard will be provided for main drive and hydraulic cylinder assembly.
23.	Control Panel	Wall mounted SS 304 quality control panel will be provided with Main switch, Backup fuses, Electrical conductors, Emer. stop, Process timer, Ammeter, Overload relays, push button for On, Off, & Stop with Indicating lamps. The limit switch will be provided for Down movement of lifting drive.
24.	M.O.C.	All direct contact parts are of SS 316 quality material & Non contact parts are either covered or clad with SS 304 quality.
25.	Finishing	All contact parts internal surfaces are mirror polished and rest All parts external surfaces are matt. polished.
26.	Overall Dimensions	80" (L) x 64" (W) x 101" (H) – Approx.
27.	Net Weight	2000 Kgs. Approx.

## RIDDHI PHARMA MACHINERY LTD.

### Manufacturer & Exporters of Pharmaceutical Machineries

**MUMBAI OFFICE:** Om-shivam soc., Tarun Bharat Bldg. No.2, Opp. Cigarette Factory, Sahar Road, Andheri (East), Mumbai - 400 099. Maharashtra, India Tel.: +91-22-28321332 / 28382479 Mobile: +91- 9821018579

**Skype :** hiten.k.shah **Whatsapp :** 9821018579 / 9969994187 **Email:** hkshah@riddhipharma.com

**Web :** [www.riddhipharma.com](http://www.riddhipharma.com) / [www.riddhipharma.net](http://www.riddhipharma.net)

**REGD. OFFICE & FACTORY :** Riddhi Estate, Gulab Nagar, Opp. AEC, Amraiwadi, Ahmedabad - 380026. India.