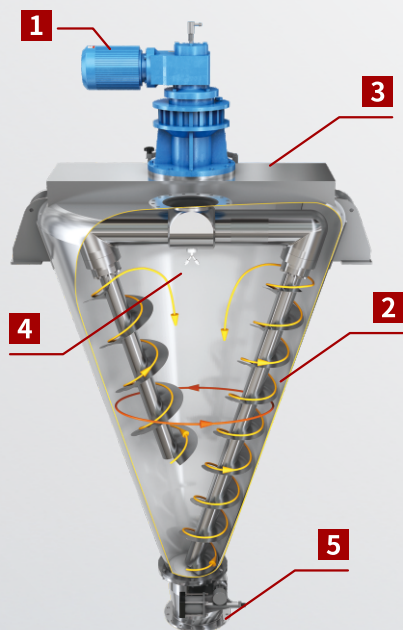


# Conical Screw Mixer

*Low shearing mixing with large-scale capacity*



- 1 Drive Unit**  
(Motor, Gear Reducer)
- 2 Mixing Elements**  
(Double Screws)
- 3 Feed Port and Cover**
- 4 Liquid Nozzle**
- 5 Discharge Valve**

Conical Screw Mixer consists of a conical shape vessel, top drive unit and screw agitator. The screw lifts the materials in a spiral upward flow and the arm orbits the vessel to remove the materials away from the vessel wall and deflects them into center of vessel. The mixing screw is suspended from an orbital arm, which rotates the mixing screw along the conical inner vessel wall causing convective mixing of particles and shear. It is a gentle mixing and minimal heat generation without any product distortion.

**Option:** Vacuum, Jacket (heating/cooling), Surface Coating, Liquid Spray, CIP Cleaning, Hazardous Area etc.





## Benefits

- ✓ Gentle mixing with minimal heat generation for free flowing material
- ✓ Large batch capacity
- ✓ CIP cleaning design is optional
- ✓ Liquid Injection at top through reducer shaft
- ✓ Heating/cooling jacket and vacuum drying design is optional
- ✓ Complete Discharge

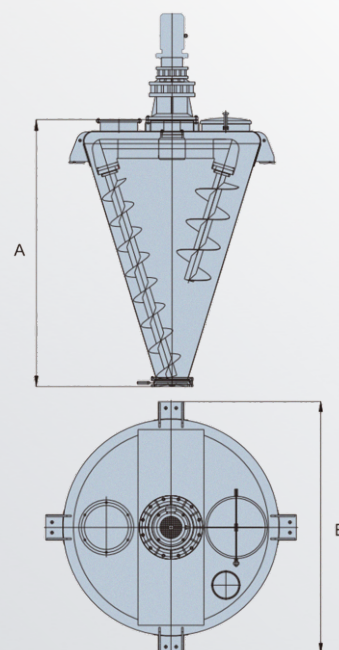
## Application

- ✓ Dry Powder
- ✓ Dry Powder with liquid additives
- ✓ Slurry



## Technical Data

Gross Volume	Effective Volume	Overall Dimension(mm)		Shaft Speed (rpm)	Approx. Weight (kg)
		B	A		
100L	40-60L	670	1300	118	250
300L	120-180L	934	1900	119	450
500L	200-300L	1106	2200	119	550
1000L	400-600L	1509	2800	97	1100
1500L	600-900L	1662	3000	97	1300
2000L	800-1200L	1844	3300	97	1450
3000L	1200-1800L	2071	3500	97	1600
4000L	1600-2400L	2314	4000	74	2550
5000L	2000-3000L	2457	4150	74	2800
6000L	2400-3600L	2603	4400	74	2900
8000L	3200-4800L	2850	5000	74	4350
10000L	4000-6000L	3088	5300	72	5600
12000L	4800-7200L	3267	5600	72	6150
15000L	6000-9000L	3505	5950	72	6600
20000L	8000-12000L	3833	6500	56	10150
25000L	10000-15000L	4115	7000	56	11000
30000L	12000-18000L	4359	7400	56	12000



- Above information is our standard type, we can make customized design if necessary.
- The construction material can be mild steel, stainless steel 304/316L, duplex steel, hard alloy steel to meet different application.
- The mixer can be atmospheric design, pressure vessel design (GB150, ASME, PED), FDA hygiene design and other complicated requirement.

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