

PD - High Speed Dispenser

Introduction:



The PerMix PD series High Speed Dispenser (or Dissolver) is ideally designed to meet the demands of a broad spectrum of industrial applications for dispersing purpose of solid or liquid materials into liquid body.

PD series High Speed Dispenser (or Dissolver) works with the powerful high speed rotation of the saw disc impeller. Liquid or solid materials are subject to the high shear force at the periphery of the saw disc when the impeller is rotating at high speed, and they are dispersed quickly and efficiently into the liquid body, after short time, homogenous dispersion is produced.

The ease of operation and high efficiency of PerMix High Speed Dispensers reduce cost and operation time, and have proven themselves by providing the most economical solutions to a variety of dispersing problems.

Design Features:

Except the standard features of PerMix High Speed Dispenser such as drum clamping arms, hydraulic lifting station, complete safety switches, variable speed controlling, etc, PerMix can also customize accessories to meet your specific needs, those options including but not limited to:



- Swiveling head which can serve several stationary drums
- Quick locking vacuum cover which allows easy dismantling
- Adjustable safety cover which protects against splashing and dust
- Impeller system with a static toothed ring for very high shearing forces
- Mixing drums
- Double-jacketed mixing drums
- Individually driven scrapers

Special Designs:



PerMix distinguish ourselves from other suppliers with the capability to provide our PD series High Speed Dispensers with designs for some specific purposes:

- PerMix Lab-size High Speed Dispenser (Dissolver) is used for R&D purposes by performing each of the previously mentioned functions.

- PerMix VACUUM High Speed Dispenser (Dissolver) produces an intense motion which rapidly removes air or gases from the product. The built-in vacuum cover lifting device enables you to adjust the dissolver disc height without breaking the vacuum.
- PerMix TWIN-SHAFT High Speed Dispenser (Dissolver): the exclusive combination of a slow running element with a high speed dissolver disc enables you to produce batches of excellent quality and uniformity, which are twice as large as those produced in a conventional system. This mixer can handle high viscosity products (up to 600,000 cPs) or large quantities of solids.
- A vacuum version of the PerMix TWIN-SHAFT High Speed Dispenser (Dissolver) is also available as well as different types of slow running elements.
- PerMix WALL-MOUNTED High Speed Dispenser (Dissolver) is a practical and economical way to produce small and medium sized batches. A counterweight helps elevate the mixer, which can then be locked in any desired position. As an option, the elevating system can be manually, electro-mechanically or hydraulically controlled.

Applications:

The most popular and common applications of the PerMix High Speed Dispensers are as following:

- **General:** Dispersing, suspending, emulsifying, dissolving, homogenizing, mixing and breaking down agglomerates of high viscous materials (up to 300,000 cPs)
- **Paints, varnishes and printing inks:** Preparing paint batches, carbon paper paint, artist's paints, priming and rust removing paints, fillers, dispersion and coating paints, varnish pastes, printing inks, resin solutions, textile printing inks, etc
- **Plastics:** Preparing all types of PVC, PU pastes, color concentrates and plastic putties
- **Adhesives:** Preparing rubber, neoprene, resin and other types of adhesives
- **Chemicals:** Preparing filler dispersions, coating materials, insulation materials, bitumen based sealing materials, greases and lubricants

Specifications:

Model	Working Volume (liter)	Main Motor (kW)	Max. Shaft Speed (rpm)	Overall Dimension					Weight (kg)
				L (mm)	W (mm)	H (mm)	H (lifted) (mm)	Disc Dia. (mm)	
PD-5L *	2-5	0.55	0-10,000	460	420	740	990	50/60	30
PD-70 *	70	1.5/2.2	2,100	680	775	1410	1910	120/100	140
PD-100	100	3	2,100	950	400	1500	2100	150/100	200
PD-200	200	5.5	2,100	1400	700	1750	2550	200/150	500
PD-300	300	7.5	2,100	2200	1100	2100	3100	250/200	1200
PD-500	500	11	1,500	2200	1100	2100	3100	300/250	1300
PD-700	700	18.5	1,500	2400	1300	2200	3300	350/300	1400
PD-1000	1000	22	1,500	2500	1400	2200	3300	400/300	1600
PD-1200	1200	30	1,500	2800	1600	2500	3700	425/350	1900
PD-2000	2000	37	1,500	2800	1600	2500	3700	500/425	2100
PD-3000	3000	55	1,500	3400	2200	3000	4500	625/500	2400
PD-4000	4000	75	1,000	3400	2200	3000	4500	700/625	2600
PD-6000	6000	110	1,000	3800	2400	3200	4800	800/700	3100

- 1) Dimension/Weight information of PD-5L/PD-70 includes the manual lifting stand.
- 2) Specific working volumes can be offered according to customer's requirement.
- 3) All specifications and illustrations are as accurate as is reasonably possible, but they are not binding.
- 4) PerMix reserves the right to modify the design without notice.

Gallery:



www.permix-mixing.com

Laboratory PD Dispenser



www.permix-mixing.com

PD High Speed Dispenser (Lifted)



www.permix-mixing.com

PD High Speed Dispenser



www.permix-mixing.com

PD Dispenser with Dual-shaft Mixing Element