

WE OFFER
PERFECT
MIXING
TECHNOLOGIES



PHARMACEUTICAL



NUTRACEUTICAL



FOOD



CHEMICAL



BIO



HEALTH & BEAUTY



PD HIGH SPEED DISPERSER

PD - HIGH SPEED DISPERSER



PerMix PD series High Speed Disperser (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.

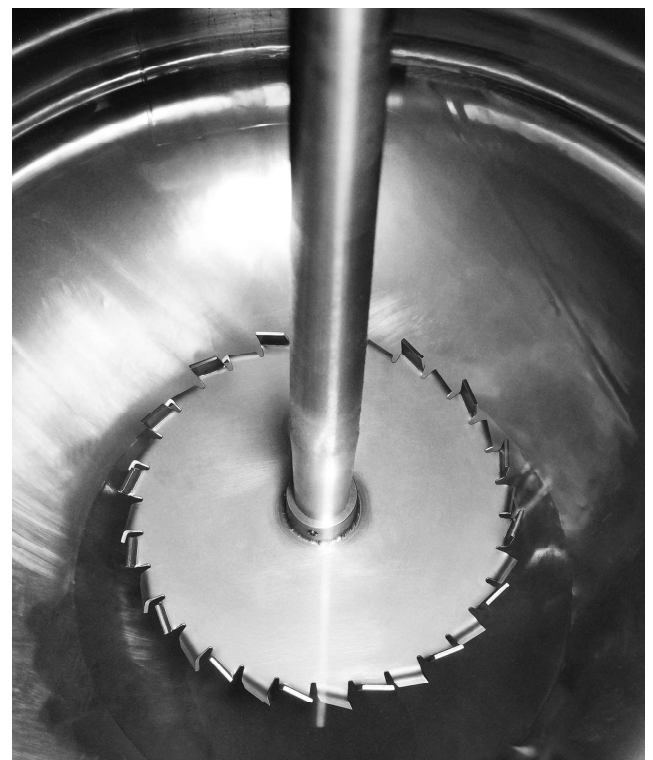
PD High Speed Disperser works with the powerful high speed rotation of the saw disc impeller. Liquid or solid materials are subject to the high shear force at the periphery of the saw disc when the impeller is rotating at high speed, and they are dispersed quickly and efficiently into the liquid body,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

The ease of operation and high efficiency of PerMix High Speed Dispersers 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 Disperser 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 Dispersers with designs for some specific purposes:

- PerMix **Lab-size High Speed Disperser (Dissolver)** is used or R&D purposes by performing each of the previously mentioned functions.
- PerMix **VACUUM High Speed Disperser (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 Disperser (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 Disperser (Dissolver)** is also available as well as different types of slow running elements.

- PerMix **WALL-MOUNTED High Speed Disperser (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 Dispersers 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)	Power (kW) (*)	Max. Speed (rpm) (*)	Overall Dimensions					Weight (kg)
				L (mm)	W (mm)	H (mm)	H (lifted) (mm)	Disc Dia. (mm)	
PD-5L	4	0.55	10,000	460	420	740	990	60/50	30
PD-70	60	1.5	3,000	680	775	1,410	1,910	120/100	140
PD-100	80	3	2,100	950	400	1,500	2,100	150/100	200
PD-200	160	5.5	2,100	1,400	700	1,750	2,550	200/150	500
PD-300	250	7.5	2,100	2,200	1,100	2,100	3,100	250/200	1,200
PD-500	400	11	1,500	2,280	1,200	2,170	3,220	300/250	1,300
PD-700	600	18.5	1,500	2,400	1,300	2,200	3,300	350/300	1,400
PD-1000	700	22	1,500	2,500	1,400	2,400	3,500	400/300	1,600
PD-1200	1,000	30	1,500	2,800	1,600	2,500	3,700	425/350	1,900
PD-2000	1,600	37	1,500	3,100	2,100	2,900	4,300	500/425	2,100
PD-3000	2,500	55	1,500	3,400	2,200	3,000	4,500	625/500	2,400
PD-4000	3,200	75	1,000	3,600	2,290	3,080	4,600	700/625	2,600
PD-6000	5,000	110	1,000	3,800	2,400	3,200	4,800	800/700	3,100

- kW/rpm are product dependent and can vary a lot.
- Customized sizes are available against request.
- All specifications and illustrations are as accurate as is reasonably possible, but they are not binding.
- PerMix reserves the right to modify the design without notice.

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Besides, PerMix have been building a network of agents located in Europe (Germany, Denmark, UK, Belgium, France, Spain, Poland, etc), Asia (South Korea, Indonesia, Thailand, Malaysia, Singapore), and several other countries.

