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MIXING
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PDP DOUBLE PLANETARY MIXER

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HOW IT WORKS

In the mixing process, two vertically mounted mixing tools rotate around a common sun gear. In addition, they rotate at a higher speed around their own axes, according to the planetary principle. A swinging type scraper continually sweeps the inside wall, transporting material from the walls of the vessel to the mixing tools, and transferring the heat efficiently.



The PerMix PDP series Double Planetary Mixer is also called double planetary kneader, because it can be used to handle very viscous materials up to 1,500,000 cPs. Usually the PerMix PDP series Double Planetary Mixer has two vertically mounted mixing tools which are driven by one gear to move around the central axis of the tank as well as their own axis.

The PerMix PDP series Double Planetary Mixer is so versatile that it can be used to mix, knead, stir and deaerate all types of material, including highly viscous pastes, even to granulate wet powders. Industrial pastes produced by the PerMix PDP series Double Planetary Mixer include concentrated paints and varnishes, printing inks, fillers, silicone and thiocole pastes, plastisoles, plastic coatings, synthetic lubricating greases and many other materials.

DESIGN FEATURES

The standard finger-blade mixing tools are designed to work in an overlapping way, thus create strong axial and radial motions in the mix-product, as well as a highly intensive shearing and dispersing effect. Within a short time, the material is thoroughly mixed and even very difficult formulas may be obtained.

A quick vessel locking device connects the mixing vessel to the mixer. Because the vessel is mounted on fixed and swivel wheels, it is very easy to transport. The standard version of the PerMix PDP series Double Planetary Mixer features dual mixing tools shafts running in heavy duty ball bearings. Both mixing tools and scrapers can be supplied with a special bayonet locking system for easy disassembly. The upper head of the machine is lifted by manual, mechanical or hydraulic elevating systems, depending on the size of the machine.

Electrical TEFC single speed motors are the standard drive units supplied with PerMix PDP series Double Planetary Mixer. Ex-proof design motors and gearswitches are also available. Among the many options available for special applications are: infinity variable speeds, two speed drives, hydraulic drive units, heating/cooling jacket, vacuum/presurized operation, etc.

SPECIAL DESIGNS

PerMix designs the Double Planetary Mixer according to the special requirements and applications of the customer. Some modifications include:

- For mixed products that must be heated or cooled, PerMix has designed jacketed vessels for hot oil, electrical heating, steam heating and liquid cooling.
- PerMix has designed moveable and tiltable mixing vessels, with or without a bottom discharge valve for less viscous liquids and units with a special no dead area valve for connection to peripheral equipment. Arrangements can be made for the transport of the vessel by forklift or by crane.
- Where necessary, alterations can be made in the shape of the mixing tools; a third mixing tool may be added; a homogenizer unit (with deflector) can be supplied - and other performance proven mixing elements may be supplied for special duties.
- A PerMix DISSOLVER UNIT for fine dispersion, with its own drive unit, available with or without variable speed, has proven itself a good process accelerator for dealing with special dispersions.



SPECIFICATIONS

Model	Total volume (liter)	Working volume (liter)	Motor (kW)	Lifting power (kW)	Length (mm)	Width (mm)	Height [closed] (mm)	Height [open] (mm)
PDP-3	3.5	2	0.75	-	950	500	1,500	-
PDP-10	10	6	1.5	-	1,000	500	1,650	-
PDP-30	30	20	4	1.1	1,250	700	1,350	1,750
PDP-50	50	35	5.5	1.1	1,300	800	1,450	1,900
PDP-100	100	70	7.5	1.5	1,550	700	1,450	1,950
PDP-200	200	140	11	2.2	1,850	800	1,700	2,300
PDP-300	300	210	15	2.2	1,900	900	1,700	2,350
PDP-500	500	350	30	4	2,400	1,050	2,000	2,800
PDP-750	750	520	37	4	2,750	1,200	2,400	3,300
PDP-1000	1,000	700	45	5.5	2,800	1,650	2,450	3,300

- All specifications are as accurate as is reasonably possible, but they are not binding.
- Customized sizes are available against request.
- PerMix reserves the right to modify the design without notice.

PerMix Tec Co., Ltd.

Adi 17940, Israel

Contact: Mr. Arie Srugo

Tel: +972-54-908-0144

Email: srugoa@permixtec.com

www.permixtec.com

www.permix-mixing.com

PerMix in China

Shanghai, 201821, China

Contact: Mr. Aaron Huang

Tel: +86 133 911 68218

Email: aaron.h@permixtec.com

PerMix North America

Chicago, Illinois,

60601, USA

Contact: Mr. John Paul

Tel: +1 630-649-1357

Email: John.paul@permixtec.com

South America office

Buenos Aires, Argentina

Contact: Mr. Gonzalo Villagra

Tel: +54-9-11-35374801

Email: gonzalo.villagra@permixtec.com

UK office

Scotland, UK

Contact: Mr. James Ryder

Tel: +44 (0) 7554139667

Email: james.ryder@permixtec.com

South Africa office

South Africa

Contact: Mr. Martin Whelan

Email: saf@permixtec.com

Russia office

Contact: Mr. Vladislav Dyuzhev

Tel: + 7 910 443 9924

Email: ru@permixtec.com

Ukraine office

Contact: Mr. Viacheslav Pishyi

Tel: +38 067 45 44 694

Email: ua@permixtec.com

India office

501, KL Accolade, Santacruz East,

Mumbai - 400 055,

Maharashtra, India

Contact: Mr. Kevin Pinto

Tel: +91 7715005495

Email: india@permixtec.com

