



SOLUTIONS FOR THE COATINGS INDUSTRY



Catalogue of products



For over 20 years **PROFARB** has been supplying **machines and other products** to the chemical industry, particularly to **coating industries**. We provide **technical designs** for chemical processes and operations, as well as develop tools and devices to ensure **process control and automation**. We offer **turnkey solutions** for customers all over the world.

Our company is specialized in the following areas:


- coatings manufacturing operations and processes,
- liquid and solid materials storage, including loading, unloading and the conveying of solids,
- gravimetric and volumetric dispensing systems for raw materials, products and pigmented pastes,
- liquid and solid materials mixing and dispersion, grinding,
- organic resins synthesis,
- heating with high temperature thermal oils.

**PROFARB** supplies a complete range of products for the coatings industry.

We work for all major World coatings manufacturers.

We are proud to present our catalog of standard products.





<b>I. Dissolvers</b>	<b>4</b>
Laboratory Dissolvers PLD	6
Wall mounted Dissolvers PWD	8
Single shaft high speed Dissolvers PMD	10
Multiple shafts and special version Dissolvers PMD-DISPERMIX, PMD-BUTTERFLY	12
Fixed vessel Dissolvers PMM	14
Stationary Dissolvers PVD	16
Three-shaft Dissolvers PVT	18
<b>II. Mixers</b>	<b>20</b>
Drum & small vessel Mixers PCM	22
Mobile vessel Mixers PVM	24
Stationary Mixers PSM	26
<b>III. Mills</b>	<b>29</b>
Horizontal Mills PS	30
Stationary Basket Mills PSB	32
Rotating Basket Mills PRB	34
<b>IV. Dispensing Stations</b>	<b>37</b>
Dispensing Stations PDS	38
<b>V. Resins synthesis installations</b>	<b>41</b>
Reactors PRR	42
<b>VI. Auxiliary equipments</b>	<b>45</b>
Dust Collectors PDC	46
Hydraulic Presses PHP / Tilters PTU	48
Pumping & Filtration Units PPF / Filters PGF	50
Mobile process Vessels PMV	52

Profarb is ISO 9001:2000 certified for all products and services by:



*We permanently improve design and construction of our products.  
Therefore specification of some of the machines may differ from this presented in the catalogue.*





# Dissolvers

- PLD Laboratory Dissolvers
- PWD Wall mounted Dissolvers
- PMD Single shaft high speed Dissolvers
  - PMD Multiple shafts and special version Dissolvers
- PMM Fixed vessel Dissolvers
- PVD Stationary Dissolvers
- PVT Three-Shaft Dissolvers

# Laboratory Dissolvers

PLD

The PLD Dissolvers are modern machines that enable you to perform versatile research of the dispersion process. The construction and technical features of PLD Dissolvers are based on our best experience, as well as on our knowledge of customer needs.

## OPERATION:

The Dissolver is a compact mechanical machine.

The Machine is fixed on a stable base that enables placement directly on the floor, laboratory table or other stable foundation.

The base legs are equipped with clamping arms that permit to tight vessels of any sizes.

The construction of the disc agitator hub enables the use of exchangeable discs and agitators of different diameters and shapes.

The dissolver is equipped with different safety features protecting against improper use.

This dissolver can be linked with PROFARB DISSOLVER SOFTWARE for the computer storage and analysis of dispersion process data.

## APPLICATION:

The Laboratory-research Dissolver can be used for research on dispersion processes in the production process of:

- coatings,
- enamels,
- pigments,
- glues, adhesives and binders,
- plasters and putties,
- microbiological products,
- cosmetics,
- photographic emulsions,
- pharmaceuticals that require dispersion,
- chocolate,
- dispersion paper coatings,
- magnetic data storage coatings,
- lubricant additives,
- waxes.



*A compact machine, perfect for laboratory research.  
Perfect scaling of the production conditions.*





## TECHNICAL SPECIFICATIONS:

model	motor power (kW)	motor power (HP)	vessel working capacity (ltrs)	dispersing disc rotation (rpm)	disc diameter (mm)	L x W x H (mm)	total weight (kg)
PLD-3F	3	4,0	1÷10	0÷5600	75	1300x610x1330	125
PLD-9F	9	12,1	2÷10	0÷12000	100	1300x610x1330	130

## OPTIONS:

- vacuum lid PLD/VL,
- vacuum aggregate PLD/VA,
- exchangeable vessels (1...10 ltrs),
- vessels with cooling/heating jackets,
- vacuum vessels,
- stainless steel and plastic lids,
- exchangeable disks and agitators,
- compatible with PROFARB Dissolver software - comprehensive computer storage of dispersion process data (physical, chemical and process data - agitator speed, energy transferred to media, work duration ...), as well as software programming of operation time, duration in terms of agitator rotational speed and energy transferred to media,
- stationary scraper agitator for high viscosity products,
- CE and ROSSTEST certificates.

# Wall mounted Dissolvers

PWD

The PWD Dissolvers are used for the dispersion of solid materials in liquids. The dispersion process is performed into mobile vessels. Shaft RPM's electronic adjustment enables the use of machine in wide operation range.

## OPERATION:

The Dissolver head is sliding along two guide bars, those are mounted on a structure that is standing on the floor and / or affixed to a wall.

The PWD Dissolver is also available as a free standing machine.

The dissolver unit moves up and down with the help of hydraulic unit. The unit moves with the use of hydraulic servo.

The Dissolver motor is equipped with stepless transmission that provides the smooth adjustment of the shaft speed, with maximum motor torque.

The toothed disc is supplied with the machine.

## APPLICATION:

Wall attached Dissolvers can be used for production of:

- coatings,
- enamels,
- putties, adhesives and binders,
- plasters and fillers,
- pesticides,
- fungicidal products,
- microbiological products,
- cosmetics,
- photographic emulsions,
- pharmaceuticals that require dispersion,
- chocolate,
- dispersion paper coatings.



*Save space with a small dissolver that can be fixed to a wall or pillar.*

*The PWD Dissolver is also available as a free standing machine. (pict.)*

## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	dispersing disc rotation (rpm)	disc diameter (mm)	L x W x H (Hmax) (mm)	total weight (kg)
PWD-250/5,5F	5.5	7,4	100 ÷ 300	1000 ÷ 2600	150	670x660x2000x(2500)	250
PWD-500/7,5F	7.5	10,1	100 ÷ 500	800 ÷ 2000	250	880x855x3100x(3250)	500
PWD-500/11F	11	14,8	100 ÷ 500	0 ÷ 1500	300	880x855x3100x(3250)	550
PWD-1000/15F	15	20,1	100 ÷ 1000	0 ÷ 1500	350	880x955x3100x(3250)	600

## OPTIONS:

- wall attached PWD,
- free standing PWD/G,
- agitator lifted with manual hydraulic pump PWD/P,
- agitator lifted with hydraulic servo PWD/H
- vacuum lid PWD/VL,
- vacuum aggregate PWD/VA,
- stationary scraper for high viscosity products PWD/S,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Single shaft high speed Dissolvers

PMD

The PMD Single shaft high speed Dissolvers are used for the dispersion of solid materials in liquids. The dispersion process can be performed in mobile vessels from 500 up to 2000 l volume. The variety of options and machine types provides perfect solutions for every application.

## OPERATION:

The Dissolver consists of a column, drive body and a working shaft with a toothed disc.

The shaft, agitator disc and disc fixing parts are all made of stainless steel.

The column, together with the shaft and disc are lifted with hydraulic servo to the level enabling easy in/out movement of the process vessel from under the mixer.

Mixer shaft RPM adjustment is carried out through a frequency inverter (PMD and PMD-BUTTERFLY) or by a stepless variable pulley drive (PMD-DISPERMIX).

## APPLICATION:

All varieties of solid material in liquid dispersion processes can be performed. Production applications: coatings, enamels, plasters, fillers, adhesives, silicones and other dispersion products.

Depending on the product viscosity, the following Dissolver auxiliary equipment is provided:

- single toothed disc (low and medium viscosity),
- double toothed disc (medium viscosity),
- single/double toothed disc and scraper agitator PMD/S (medium and high viscosity)
- toothed disc and butterfly agitator with scraper PMD-BUTTERFLY or toothed disc with stationary scraper agitator and rotating vessel PMD-DISPERMIX (high viscosity).



*The highest manufacturing standard and quality of every construction detail will satisfy the most demanding customer.*

## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	dispersing disc rotation (rpm)	disc diameter (mm)	L x W x H (Hmax)(mm)	total weight (kg)
PMD-500/18,5F	18.5	24,8	500÷1000	0÷1400	350	2310x1220x2200x(3300)	1450
PMD-500/22F	22	29,5	500÷1000	0÷1400	350	2310x1220x2200x(3300)	1470
PMD-500/30F	30	40,2	500÷1000	0÷1400	350	2310x1220x2200x(3300)	1600
PMD-500/37F	37	49,6	500÷1000	0÷1400	400	2310x1220x2200x(3300)	1670
PMD-500/45F	45	60,3	500÷1000	0÷1400	400	2310x1220x2200x(3300)	1675
PMD-1000/22F	22	29,5	1000	0÷1400	350	2600x1455x2200x(3300)	1780
PMD-1000/30F	30	40,2	1000	0÷1400	350	2600x1455x2200x(3300)	1880
PMD-1000/37F	37	49,6	1000	0÷1400	400	2600x1455x2200x(3300)	1920
PMD-1000/45F	45	60,3	1000	0÷1400	400	2600x1455x2200x(3300)	1970
PMD-1000/55F	55	73,8	1000	0÷1400	450	2600x1455x2200x(3300)	2070
PMD-1000/75F	75	100,6	1000	0÷1400	450	2600x1455x2200x(3300)	2260
PMD-1500/55F	55	73,8	1500	0÷1400	450	2600x1455x2300x(3500)	2400
PMD-1500/75F	75	100,6	1500	0÷1400	450	2600x1455x2300x(3500)	2550
PMD-2000/55F	55	73,8	2000	0÷1100	500	3100x1750x2740x(4240)	2700
PMD-2000/75F	75	100,6	2000	0÷1100	550	3100x1750x2740x(4240)	2800

## OPTIONS:

- universal lid for vessels of different diameters, PMD/UL
- lid with charging hatch and crate PMD/CL
- vacuum lid PMD/VL,
- vacuum aggregate PMD/VA,
- lid charging hatch with pneumatic brake - holder, PMD/BR
- shaft with double sealing, PMD/SS
- shaft protection bellow type, PMD/SP
- clamping arms or belt for vessel fixing with security, PMD/CA or PMD/CB
- rotating scraper agitator for high viscosity products PMD/S,
- stationary scraper agitator for rotating tub for PMD-DISPERMIX/R,
- additional butterfly type agitator with scraper in PMD-BUTTERFLY,
- different types of control panels,
- load cell weighing platforms,
- CE and ROSSTEST certificates,
- machines can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTSEKHNADZOR certificate).

# Multiple shafts and special version Dissolvers

PMD-DISPERMIX

PMD-BUTTERFLY

The PMD-DISPERMIX and PMD-BUTTERFLY Dissolvers are used for high viscosity products dispersions. The machines are based on PMD Dissolver series solutions.

## OPERATION/APPLICATION:

### PMD-BUTTERFLY:

The PMD-BUTTERFLY dissolver is equipped with an additional butterfly type agitator with scraper. This Dissolver can be used for the production of plasters, putties, adhesives and silicones, even when vacuum application is required.

### PMD-DISPERMIX:

The PMD-DISPERMIX dissolver is equipped with a special Dispermix disc, powered by steeples belt transmission. This solution provides the full advantage of maximum motor torque. Additionally, the machine is equipped with a stationary scraper which operates together with the rotating vessel, driven from below. Use:

- plasters,
- putties,
- adhesives.

*The PMD-DISPERMIX and BUTTERFLY dissolvers are perfect solutions for high viscosity production applications.*



## TECHNICAL SPECIFICATIONS: PMD-BUTTERFLY

model	main motor power		vessel working capacity (ltrs)	dispergation disc rotation (rpm)	disc diameter (mm)	butterfly motor power		butterfly rotation (rpm)	L x W x H (Hmax)(mm)	total weight (kg)
	(kW)	(HP)				(kW)	(HP)			
PMD-BUTTERFLY-800/22F/22F	22	29,5	800	0÷1400	305	22	29,5	0-115	2540x1400x3000x(4200)	2600
PMD-BUTTERFLY-800/ 22F/37F	22	29,5	800	0÷1400	305	37	49,6	0-115	2540x1400x2600x(3600)	2750
PMD-BUTTERFLY-800/ 37F/22F	37	49,6	800	0÷1400	305	22	29,5	0-115	2540x1400x3000x(4200)	2680

## TECHNICAL SPECIFICATIONS: PMD-DISPERMIX

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	dispergation disc rotation (rpm)	disc diameter (mm)	vessel rotating motor power (kW)	vessel rotation (rpm)	L x W x H (Hmax)(mm)	total weight (kg)
PMD-DISPERMIX-450/45B	45	60.3	450	230÷1150	400	-	-	2350x1350x2700x(3700)	2400
PMD-DISPERMIX-450/45B/R	45	60.3	450	230÷1150	400	2,2	12	2350x1350x2700x(3700)	2500

## OPTIONS:

### PMD-BUTTERFLY:

- vacuum lid PMD-BUTTERFLY/VL,
- vacuum aggregate PMD-BUTTERFLY/VA,
- special dispersing discs for plasters,
- cooperation with the PHP vessel discharging press and PFS semiautomatic filling stations,
- special vessels for the PHP press.

### PMD-DISPERMIX:

- special dispersing discs for plasters,
- cooperation with the PHP vessel discharging press and PFS semiautomatic filling stations,
- special vessels for the PHP press.

# Fixed vessel Dissolvers

PMM

Swiveling column dissolvers that cooperate with 1, 2 or 3 vessels. An economic solution providing high production efficiency.

## OPERATION:

The Dissolver consists of a column, drive body and a working shaft with a disc.

The shaft, agitator disc and disc fixing parts are all made of stainless steel.

The column, together with the shaft drive body are lifted with hydraulic servo, thus enabling rotation and movement to one of 3 stationary vessels located on the operating platform.

The speed adjustment is carried out through a frequency inverter.

The machine is equipped with different security features that prevent the agitator operation while outside the vessel.

## APPLICATION:

The PMM Dissolvers can be used for the production of medium viscosity coatings, particularly for decorative products: water or solvent based.

It is also possible to produce final products, by performing finishing operation in one of the vessels.



*vessel 1: solids charging/  
dispersion  
vessel 2: quality testing/  
emptying/filling  
vessel 3: cleaning/liquids  
charging*



## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	dispersing disc rotation (rpm)	disc diameter (mm)	L x W x H (Hmax) (mm)	total weight (kg)
PMM-1000/45F	45	60,3	1000	0÷1400	400	3100x2900x2750x(3850)	1850
PMM-2500/75F	75	100,6	2500	0÷900	500	3760x3450x3850x(5500)	4580
PMM-2500/90F	90	120,7	2500	0÷900	600	3760x3450x3850x(5500)	4700
PMM-3000/75F	75	100,6	3000	0÷900	500	4300x3950x3850x(5850)	4950
PMM-3000/90F	90	120,7	3000	0÷900	600	4300x3950x3850x(5850)	5000
PMM-4000/110F	110	147,5	4000	0÷900	600	4550x4220x3850x(5850)	5050
PMM-5000/132F	132	177,0	5000	0÷900	600	4630x4290x3850x(5850)	5100
PMM-10000/250F	250	335,3	10 000	0÷750	800 (1000)	4684x4354x6594(9444)	12050 (without tanks)

## OPTIONS:

- vessels made of stainless steel,
- vessels equipped with cooling jackets, D-tubes, pressure and non-pressure systems,
- vessel lids,
- polished, mirror finished vessel interior,
- weighing and batching systems,
- low pressure rinsing nozzles,
- high pressure cleaning nozzles,
- cleaning units,
- CE and ROSSTEST certificates,
- machines can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Stationary Dissolvers

PVD

The most advanced construction of stationary Dissolvers, equipped with a centrally driven dispersing disc and an anchor agitator with scraper - a versatile machine, perfect for difficult dispersion products.

## OPERATION:

The dissolver is equipped with disc and anchor agitators; the anchor is equipped with a scraper. The disc agitator is used for product dispersion, whereas the anchor agitator ensures the mixing and transfer of the product inside the vessel and facilitates vessel discharging and cleaning.

The dissolver features a unique solution of concentric shafts: the disc agitator shaft, located centrally, penetrates through the anchor agitator shaft which enables the use of large diameter disks and attaining the high tangential velocity of disks. This results in remarkable dispersion effects. Such a design significantly decreases the duration of the expensive grinding process in many paint manufacturing technologies.

The agitators and shafts, as well as the fixing parts, are made of stainless steel. The agitators are driven independently by two electric motors, both driven by frequency inverters for speed variation.

The disc agitator motor may be equipped with an automatic RPM rotational speed control system which optimizes rotational speed and motor power.

The PVD Dissolvers - PVD/H series - can be optionally equipped with a dispersion unit lifting system, which results in:

- better incorporation and dispersion,
- possibility of adjusting disc position to specific process requirements,
- possibility of mixing (finishing) at low disc revs without the destruction of dispersive resin - for waterbased products.

## APPLICATION:

The PVD Dissolvers are used for the production of:

- coatings,
- concentrated pastes (even concentrated solvent based pastes),
- bases,
- plasters,
- adhesives,
- putties.

The PVD Dissolvers equipped with a dispersing disc only are used as for emulsion making or dissolvers for coatings of low viscosity.



*Due to its unique solution of penetrating shafts of disc and scraper agitators, the disc rotates in the vessel axis therefore providing remarkable process results.*



## TECHNICAL SPECIFICATIONS: PVD Dissolvers

model	main motor power		vessel working capacity (m³)	anchor motor power		dispersing disc rotation (rpm)	anchor rotation (rpm)	disc diameter (mm)	diameter x height (mm)	total weight (kg)
	(kW)	(HP)		(kW)	(HP)					
PVD-2500/55F/5,5F	55	73,8	2,5	5.5	7.4	0÷900	10÷20	450	Ø1700x3400	2860
PVD-3000/75F/7,5F	75	100,6	3	7.5	10.1	0÷850	10÷20	620	Ø1700x3650	3300
PVD-3000/90F/7,5F	90	120,7	3	7.5	10.1	0÷850	10÷20	650	Ø1700x3650	3400
PVD-3000/110F/7,5F	110	147,5	3	7.5	10.1	0÷850	10÷20	650	Ø1700x3650	3500
PVD-4000/110F/7,5F	110	147,5	4	7.5	10.1	0÷800	10÷20	700	Ø1900x3850	3800
PVD-4000/132F/7,5F	132	177,0	4	7.5	10.1	0÷800	10÷20	700	Ø1900x3850	3900
PVD-5000/55F/7,5F	55	73,8	5	7.5	10.1	0÷850	10÷20	650	Ø1900x4010	3700
PVD-5000/90F/7,5F	90	120,7	5	7.5	10.1	0÷700	10÷20	750	Ø1900x4010	3900
PVD-5000/110F/7,5F	110	147,5	5	7.5	10.1	0÷700	10÷20	750	Ø1900x4010	4000
PVD-5000/132F/7,5F	132	177,0	5	7.5	10.1	0÷700	10÷20	750	Ø1900x4010	4050
PVD-5000/160F/7,5F	160	214,6	5	7.5	10.1	0÷700	10÷20	750	Ø1900x4010	4090

## PVD/H Dissolvers - with the vertical movement of a dispersing disc

model	main motor power	main motor power	vessel working capacity (m³)	anchor motor power	anchor motor power	dispersing disc rotation (rpm)	anchor rotation (rpm)	disc diameter (mm)	diameter x height (mm)	total weight (kg)
	(kW)	(HP)		(kW)	(HP)					
PVD/H-3000/90F/7,5F	90	120,7	3	7,5	10.1	0÷930	10÷20	600	Ø1800x4500	7000
PVD/H-5000/160F/7,5F	160	214,6	5	7,5	10.1	0÷700	10÷20	750	Ø1900x4500	8000
PVD/H-6000/160F/7,5F	160	214,6	6	7,5	10.1	0÷700	10÷20	750	Ø2000x4600	9000
PVD/H-10000/250F/7,5F	250	335,3	10	7,5	10.1	0÷700	6÷16	800	Ø2400x4900	10000

## OPTIONS:

- dissolver fixed on weighing system with batching control,
- fully automated raw materials charging, dissolver operation and product discharging - PLC controller,
- low pressure rinsing nozzles,
- high pressure cleaning nozzles,
- cleaning units,
- vacuum units,
- pressure for quick dissolver discharging,
- vessels equipped with cooling jacket, D-tubes, pressure and non-pressure systems
- vessel interior lighting,
- multiple disc systems - e.g. with special disks for plasters and putties, adhesives,
- anchor agitator with speed and rotation direction control and brake,
- polished and mirror finished vessel interior,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Three-shaft Dissolvers

PVT

The Three-shaft Dissolvers are designed for the dispersing of solid materials in liquids of medium and high viscosity in stationary vessels. The machine is equipped with a disc, pumping screw and anchor with scraper agitators.

## OPERATION:

The PVT Dissolver consists of a stationary vessel and drive system located in the upper cover of the vessel.

The drive system is composed of 3 individually driven and controlled agitators with different functions. The disc agitator is driven by belt transmission or directly by motoreducer. Two other agitators are driven by motoreducers.

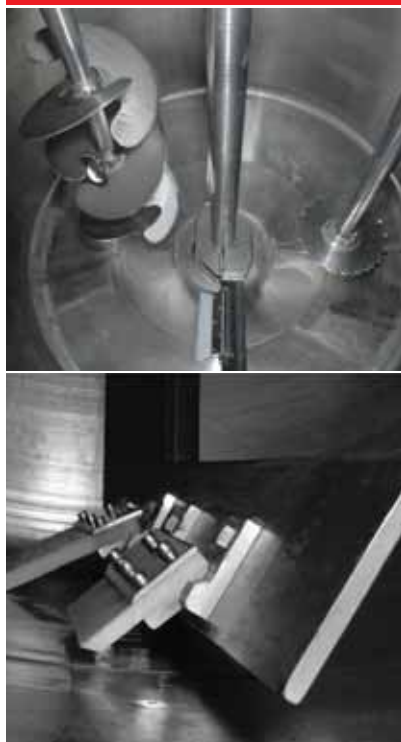
All agitators can be equipped with speed control through inverters.

For production process control purposes, the Dissolver can be located on weighing cells.

## APPLICATION:

The PVT Dissolvers can be used in the production of:

- coatings,
- viscous primers,
- plasters,
- putties,
- adhesives,
- other products of medium and high viscosity and density.



*PVT Dissolver agitators functions:*

1. disc agitator - dispersing,
2. screw agitator - vertical product circulation,
3. anchor agitator with scraper - horizontal circulation, discharging, wall cleaning.



## TECHNICAL SPECIFICATIONS:

model	vessel working capacity (m <sup>3</sup> )	dispersing disc power		dispersing disc rotation (rpm)	screw motor power		screw rotation (rpm)	anchor motor power		anchor rotation (rpm)	diameter x height (mm)	total weight (kg)
		(kW)	(HP)		(kW)	(HP)		(kW)	(HP)			
PVT-2500/37F/7,5F/5,5F	2.5	37	49,6	0÷1300	7.5	10.1	0÷230	5.5	7.4	0÷17	Ø1600x3800	3700
PVT-3000/45F/11F/7,5F	3	45	60,3	0÷1300	11	14.8	0÷230	7.5	10.1	0÷17	Ø1600x3800	3900
PVT-5000/65F/15F/7,5F	5	67	89,8	0÷1000	15	20.1	0÷200	7.5	10.1	0÷20	Ø2100x4700	5400
PVT-5000/65F/18,5F/15F	5	67	89,8	0÷1000	18,5	24.8	0÷200	15	20.1	0÷20	Ø2100x4700	5500
PVT-5000/75F/18,5F/15F	5	75	100,6	0÷1000	18,5	24.8	0÷200	15	20.1	0÷20	Ø2100x4700	6000
PVT-6000/75F/15F/7,5F	6	75	100,6	0÷1000	15	20.1	0÷120	7.5	10.1	0÷20	Ø2100x4800	6500
PVT-6000/75F/18,5F/15F	6	75	100,6	0÷1000	18,5	24.8	0÷120	15	20.1	0÷20	Ø2100x4800	6650

## OPTIONS:

- dissolver fixed on weighing system with batching control,
- fully automated raw materials charging, dissolver operation and product discharging - PLC controller,
- low pressure rinsing nozzles,
- high pressure cleaning nozzles,
- cleaning units,
- vacuum units,
- pressure for quick dissolver discharging,
- vessels equipped with cooling jacket, D-tubes, pressure and non-pressure systems,
- vessel interior lighting,
- multiple disc systems - e.g. with special disks for plasters and putties, adhesives,
- anchor agitator with speed and rotation direction control and brake
- polished and mirror finish vessel interior,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).



# Mixers

- PCM Drum & small vessel Mixers
- PVM Mobile vessel Mixers
- PSM Stationary Mixers

# Drum & small vessel Mixers

PCM

The PCM Drum & small vessel Mixers are used for liquids mixing in mobile vessels, IBC containers and drums. The Mixer is attached by a clamping arm to the vessel's edge or lid in the case of drums and IBC containers.

## OPERATION:

Electric and pneumatic motors are used in the PCM Mixers.

The motor is positioned in a shaft rotation axis in order to directly transfer motor torque.

All parts in contact with the product are made of stainless steel.

A special assembly system ensures the easy use of mixers in all conditions (drum, IBC container, vessel).

Different agitators may be used with the mixer.

## APPLICATION:

The PCM Container Mixers can be used in the process of:

- varnish production,
- low viscosity product tinting,
- liquids mixing,
- prevention from solid materials sedimentation - e.g. while storing coloring pastes in drums.



*Small dimensions and easy assembly make the mobile Mixer easy to use anywhere.*



A large industrial mixer machine with a vertical shaft and a motor assembly at the top. The machine is shown in a faded, grayscale background. The motor assembly is complex, with various bolts, a lifting eye, and a control lever. The shaft extends downwards through a central column.

## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	drive type	vessel type/working capacity (ltrs)	mixer diameter (rpm)	mixer rotation (rpm)	diameter x height (mm)	total weight (kg)
PCM-D/0,5/P	0.5	0,7	pneumatic	Drum / 200	250	0÷400	Ø250 x 960	28
PCM-IBC/1,35/E	1.35	1,8	electric	IBC-type containers / 1000	up to 500	147	Ø500 x 1300	38
PCM-IBC/2,5/P	2.5	3,4	pneumatic	IBC-type containers / 1000	up to 500	0÷420	Ø500 x 1400	70
PCM-T/1,1/E	1.1	1,5	electric	Tub / 100÷1500	155	925	Ø290 x 1180	44

## OPTIONS:

- electric/pneumatic motor,
- exchangeable agitators,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Mobile vessel Mixers

PVM

The PVM Mobile vessel Mixers are used for liquids and dispersions media mixing in mobile vessels. They are particularly used in coating tinting processes.

## OPERATION:

The PVM vessel Mixer consists of a slideway, extension arm and mixer drive unit.

The Mixer's rotor can be lifted up and down together with the drive unit attached to the extension arm. The transmission between motor and mixing shaft is made by a v-belt drive. Speed is regulated by means of a frequency inverter.

Mixer lifting and lowering are facilitated by a hydraulic or pneumatic cylinder. Hydraulic cylinder can be operated either by a manual pump or by an electric aggregate.

In standard execution, machine is offered as a wall mounted construction, free standing version is optional.

## APPLICATION:

The PVM mobile vessel Mixer can be used in the process of:

- varnish production,
- product tinting,
- liquid mixing,
- prevention from solid material sedimentation - i.e. while storing coloring pastes in drums.



*PVM Mixer has very stable and solid construction. It can be used as a free standing or wall mounted machine.*



## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	mixer rotation (rpm)	mixer diameter (mm)	L x W x H (Hmax) (mm)	total weight (kg)
PVM-1,5F	1.5	2,0	100÷1500	0÷1400	170	880x620x3100x (3200)	370
PVM-2,2F	2.2	3,0	100÷1500	0÷1400	170	880x620x3100x (3200)	380
PVM-3,0F	3.0	4,0	100÷1500	0÷1400	200	880x620x3100x (3200)	400
PVM-4,0F	4.0	5,4	100÷1500	0÷1400	200	880x620x3100x (3200)	420
PVM-5,5F	5.5	7,4	100÷1500	0÷1400	250	880x620x3100x (3200)	480
PVM-7,5F	7.5	10,1	100÷1500	0÷1400	250	880x620x3100x (3200)	500

## OPTIONS:

- pneumatic PVM/P or hydraulic lifting PVM/H,
- exchangeable agitators,
- compact fixing (mini coloring stations),
- shaft with quick coupling,
- clamping arms or belts for tub securing,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Stationary Mixers

PSM

The PSM Stationary Mixers are used for liquid and dispersed products mixing in stationary vessels.

They are particularly used as holding, finishing and tinting tanks.

## OPERATION:

The mixer is equipped with one or two independently driven agitators: usually propellers and anchor agitators.

The agitators are driven by electric motors and torque is generally transferred by gear transmission. Rotational speed adjustment is carried out by an inverter.

The shafts are positioned in bearing columns or connected with reinforced gearboxes (for smaller machines).

All parts in contact with the product are made of stainless steel.

## APPLICATION:

The PSM Stationary Mixers can be used for:

- liquid products mixing,
- finishing,
- holding,
- tinting.



*These Mixers come in a range of sizes from 1000 l to 35000 l.*

## TECHNICAL SPECIFICATIONS:

### Mixers with single drive. (designed for the storage of products)

model	working capacity (m³)	motors power (kW)	motors power (HP)	standard mixing tools	revolutions (rpm)	diameter x height (mm)	total weight (kg)
PSM-1000/1,1-120	1.0	1.1	1,5	1x propeller	120	Ø1200x1900	290
PSM-1000/1,5-125	1.0	1.5	2,0	1x propeller + 1xbottom mixer	125	Ø1200x2000	370
PSM-2000/2,2-108	2.0	2.2	3,0	2x propellers + 1xbottom mixer	108	Ø1400x2500	490
PSM-4000/5,5-48	4.0	5.5	7,4	2x propellers + 1xbottom mixer	48	Ø1800x3120	1500
PSM-6000/7,5-34	6.0	7.5	10,1	2x propellers + 1xbottom mixer	34	Ø2000x4500	1600
PSM-10000/11-27	10.0	11	14,8	2x propellers + 1xbottom mixer	27	Ø2000x4800	2100
PSM-35000/30-26	35.0	30	40,2	2x propellers + 1xbottom mixer	26	Ø3234x6500	5000

### Finishing/Tinting and Special mixers. (for the equalisation and tinting of products)

model	working capacity (m³)	motors power (kW)	motors power (HP)	standard mixing tools	revolutions (rpm)	diameter x height (mm)	total weight (kg)
PSM-1000/4,0F-120	1.0	4	5,4	1x alpha propeller	0÷120	Ø1200x2000	290
PSM-2000/5,5-60	2.0	5.5	7,4	1x propeller+1xbottom mixer	60	Ø1400x2500	1000
PSM-3000/7,5F-180	3.0	7.5	10,1	2x propeller	0÷180	Ø1800x2800	1440
PSM-3200/18,5F-30	3.2	18.5	24,8	2x alpha propellers+1xbottom mixer	0÷30	Ø1800x3500	1160
PSM-3200/11-135	3.2	11	14,8	2x propellers	135	Ø1800x3500	1100
PSM-4000/7,5-150	4.0	7.5	10,1	2x propellers	150	Ø1800x2800	1440
PSM-4000/15-48	4.0	15	20,1	2x propellers+1xbottom mixer	48	Ø1800x3100	1650
PSM-4000/18,5-38	4.0	18.5	24,8	Ribbon+1xbottom mixer	38	Ø1800x3470	1810
PSM-5000/5,5F-100	5.0	5.5	7,4	3x propeller	0÷100	Ø1800x3000	1420
PSM-5000/17,5(13,5) 192(92)	5.0	13.5/17.5	17,7/23,5	2x propellers	92/192	Ø2000x4900	2000
PSM-5000/22-30	5.0	22	29,5	2xalpha propellers+1xbottom mixer	30	Ø2000x3350	1330
PSM-6000/11F-96	6.0	11	14,8	1x propeller+ 1x anchor	0÷96	Ø2000x3250	1730
PSM-6000/15F-80	6.0	15	20,1	2x propellers+1xbottom mixer	0÷80	Ø2000x3250	1790
PSM-6000/22F-13	6.0	22	29,5	2xalpha propellers+bottom mixer	0÷13	Ø1800x4600	1900
PSM-6000/22F-54	6.0	22	29,5	2xalpha propellers+bottom mixer	0÷54	Ø2000x4600	1900
PSM-6300/15-118	6.3	15	20,1	2x propellers	118	Ø2000x4900	2080
PSM-10000/37F-44	10.0	37	49,6	2x alpha propellers+ 1x Bottom mixer	0÷44	Ø2400x5500	2300
PSM-20000/22F-200	20.0	22	29,5	3x propellers	0÷200	Ø2800x6480	2800

### Mixers with two drives. Tinting mixers

model	working capacity (m³)	motors power (kW)	motors power (HP)	standard mixing tools	revolutions (rpm)	diameter x height (mm)	total weight (kg)
PSM-2000/15F-500/3-11	2.0	15 and 3	20,1 and 4,0	dispersing disc/ anchor scraper	0÷500 / 11	Ø1200x3400	1800
PSM-6300/22F-500/4-10	6.3	22 and 4	29,5 and 5,4	dispersing disc/ anchor scraper	0÷500 / 10	Ø2000x4730	2890
PSM-10000/18.5-140/11-25	10.0	18.5 and 11	24,8 and 14,8	2x propellers / anchor scraper	140 / 25	Ø2200x4800	3440

## OPTIONS:

- individual designs, different powers,
- polished or mirror finished vessels made of stainless steel (mirror-finished interior)
- vessels equipped with cooling jacket, D-tubes, pressure and non-pressure systems,
- equipped with weighing systems,
- equipped with cleaning systems,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).



The background of the entire slide is a dense, close-up photograph of numerous small, white, spherical pellets, likely used in industrial milling processes. The pellets are uniform in size and color, creating a textured, repetitive pattern.

# Mills

- PS Horizontal Mills
- PSB Stationary Basket Mills
- PRB Rotating Basket Mills

# Horizontal Mills

PS

The PS Horizontal Bead Mills are used for the grinding and dispersion of initially pre-dispersed mixtures of pigments and binders or other substances requiring fine grinding in a liquid environment.

## OPERATION:

The Mill consists of a milling chamber which is filled with milling media and equipped with specially shaped rotating discs on the shaft.

The predispersed millbase is brought inside the chamber via the feeding pump unit and is forced to pass into the gaps between the milling media (zirconium or glass beads). While the discs are rotating, the shear stress between beads grinds the substance to the required fineness.

This mill provides the highest capacity of milling efficiency per pass and is capable of achieving final fineness down to  $0.1\ \mu\text{m}$  in some cases. The elongated shell provides a longer residence time, less dead zones, ensuring dispersion results within narrow particle size distribution.

## APPLICATION:

The PS Horizontal Bead Mills are used in the production process of:

- coatings,
- enamels,
- pigments,
- microbiological products,
- cosmetics,
- photographic emulsions,
- pharmaceuticals that require dispersion,
- chocolate,
- dispersion paper coatings,
- data storage magnetic coatings,
- lubricant additives,
- waxes.



*A highly reliable machine!  
Extreme flexibility in process  
parameters,  
Efficiency up to 5000kg/h !!!*

## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	mill chamber net capacity (ltrs)	zirconium beads weight 1,6÷2,5mm (kg)	membrane pump size (inch)	L x W x H (mm)	total weight (kg)
PS-1/1.5/2	3	4,0	1; 1.5; 2	2,1;3,2;4,2	¼"	1100x570x500	150
PS-20	22	29,5	20	42	½"	1400x890x1450	720
PS-50	45	60,3	44	110	½"	2050x1170x1650	1260
PS-100	55	73,8	113	210	1"	2270x1250x1780	1900
PS-200	90	120,7	195	420	1"	2400x1940x1800	2880
PS-500	200	268,2	500	1050	2"	5600x1110x1600	4800

## OPTIONS:

- gear pump with motoreducer,
- filter for paste recirculation,
- two rotational speeds of milling discs,
- contact thermometer,
- contact manometer,
- zirconium beads supply,
- ex electric switchgear built into the mill,
- different discs (standard, plastic, coated),
- selection of separators,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Stationary Basket Mills

PSB

PSB Stationary Mills are designed for the grinding of pigments pastes or other substances in mobile vessels. Stationary, colled basket enables use of mobile vessel, even without cooling jacket.

## OPERATION:

The mill consists of a rotating disc fixed on a vertical shaft inside a stationary basket. The basket assembly, immersed into the mobile vessel, is filled with appropriate milling beads.

By the disc rotation, the beads are accelerated and produce tremendous friction and shear effect, dispersing and milling the particles in suspension in the millbase passing through the basket.

The bottom of the basket, made of slotted bars, separates the beads from the product, which is pumped out by an impeller situated below the separator, and actuated by the same vertical shaft.

This impeller by its axial / radial pumping effect, creates the circulation of the product in the vessel and its transfer into the milling basket.

The temperature of the millbase is controlled by removing the excess of heat with the efficient cooling jacket of the basket; cooling of the vessel is not required.

## APPLICATION:

PSB Mills are used in the dispersion and milling process of:

- coatings,
- enamels,
- microbiological products,
- cosmetics,
- dispersion of pharmaceuticals,
- chocolate,
- dispersion of paper coatings,
- lubricant additives.

Absence of pumps, pipes, transfer vessels, makes the PSB mill the ideal tool for high quality results with small and medium size batches, when formulation or colour changes are frequent or when operation is periodical.



*Maintenance and cleaning operations are reduced to a strict minimum.*

## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	basket volume (ltrs)	zirconium beads weight 1,6÷2.5 mm (kg )	basket rotation (rpm)	L x W x H (Hmax) (mm)	total weight (kg)
PSB-2	1,5	2,0	1-15	2	1,5	0÷1400	925x600x935 (1335)	200
PSB-20	15	20,1	600	13,2	34	0÷900	2100x1150x2100 (3100)	1850
PSB-50	37	49,6	1000	33	68	0÷750	2600x1455x2200 (3300)	2000

## OPTIONS:

- options for control panel
- contact thermometer
- zirconium beads supply
- CE and ROSSTEST certificates
- machine can be adapted for the EX explosive environment operation (European ATEX and Russian GOZGORTECHNADZOR certificate).

# Rotating Basket Mills

PRB

The PRB Basket Mills with rotating basket are used for the grinding of pigment pastes and other dispersing media in mobile vessels. Mills are made according to Mirodur - Turbomill, Italy license (World patent).

## OPERATION:

The mill consists of a milling basket with an external part containing a slotted sieve, and an internal part with a special built-in grinding disc.

The basket interior is filled with the appropriate milling media (zirconium beads).

The external part of the basket rotates when in operation. The internal part is locked which results in the additional movement of the rotating beads. Such a solution creates a centrifugal force which, connected with the forced beads movement, generates huge shearing forces that result in a highly efficient grinding process.

The utilization of centrifugal force significantly decreases basket cleaning duration (5-10min), which consists of immersing and rotating the basket in solvent. This operation enables the complete replacement of the ground product.

It possesses the exclusive license for the latest generation RV3 basket!

## APPLICATION:

The PRB Basket Mills are used in the production process of:

- coatings,
- enamels,
- microbiological products,
- cosmetics,
- photographic emulsions,
- pharmaceuticals that require dispersion,
- chocolate,
- paper coating dispersion,
- data storage magnetic coatings,
- lubricant additives,
- always when frequent product and color change is needed.



*The perfect mill for frequent color changes in the production process.  
Easy to clean.  
Grinding finer than 1 µm.*





## TECHNICAL SPECIFICATIONS:

model	main motor power (kW)	main motor power (HP)	vessel working capacity (ltrs)	basket volume (ltrs)	weight of zirconium beads charge 1mm (kg)	basket rotation (rpm)	L x W x H (Hmax) (mm)	total weight (kg)
PRB-2	1.5	2,0	1÷15	0.34	0.65	0÷1400	925x600x935x(1335)	170
PRB-15	11	14,8	50÷250	2.7	6	0÷650	2040x1200x2280x(3380)	1650
PRB-20	15	20,1	50÷500	2.7	6	0÷650	2040x1200x2280x(3380)	1650
PRB-50	37	49,6	200÷800	10	22	0÷520	2600x1450x2300x(3400)	2500

## OPTIONS:

- vessels with cooling jacket,
- options for control panel,
- contact thermometer,
- zirconium beads supply,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).



# Dispensing Stations

- Dispensing Stations PDS

# Dispensing Stations

PDS

The PDS Dispensing Stations are used for precise, recipe-based liquid materials dispensing, particularly for paint products tinting.

## OPERATION:

Coloring pastes are stored in storage tanks with built-in mixers equipped with membrane pumps which:

- refill the storage tank with coloring paste when necessary,
- transfer paste to the dosing station,
- provide circulation in a closed circuit.

Recipe components are batched into the container located on the platform scale. Dispensing is performed in three modes: coarse/fine/dripping. The operator selects a code from the database which corresponds to the given recipe. After the code is selected, the system dispenses the appropriate volume of coloring pastes according to the recipe. The manufacturer may, in this way, meet precise customer orders in terms of volume and color.

## APPLICATION:

The PDS Dispensing Stations can be used for:

- tinting paint products,
- precise liquid products batching,
- producing liquid materials mixtures.



*A fully computerized operation enables precise and repeatable color making.*



## TECHNICAL SPECIFICATIONS:

model	maximum quantity of components	standard scales (kg)	moveable valves	L x W x H (mm)	total weight (kg)
PDS-18	18	1500/3000	-	1510x1210x1750	490
PDS-36	36	1500/3000	-	1900x1340x2100	670
PDS-48	48	30/60/1500/300	+	4000x3000x2700	1250

## OPTIONS:

- complete dispensing installations, consisting of:
  - storage of base pigments,
  - transfer and recycling of base pigments,
  - dispensing station with control computer,
- dispensing accuracy: down to 0,1g,
- a wide-selection of container sizes, in which dosage takes place (1 ..... 3000 kg)
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).





The background of the slide is a close-up photograph of a glass dish containing a clear, viscous liquid. Numerous small, spherical bubbles are trapped within the liquid, creating a textured, sparkling effect. The lighting is soft, highlighting the refractive properties of the glass and the liquid.

# Resins synthesis installations

- PRR Reactors

# Reactors Resins Installations

PRR

The technically advanced Reactors are the heart of resins synthesis installations. PROFARB offers complete installations for the synthesis of all kinds of resins.

## OPERATION:

The Reactor's drive is located in the central axis of the vessel. The electric motor is equipped with steeples revs adjustment in full range. The rotational speed is transferred onto the shaft through a reducer.

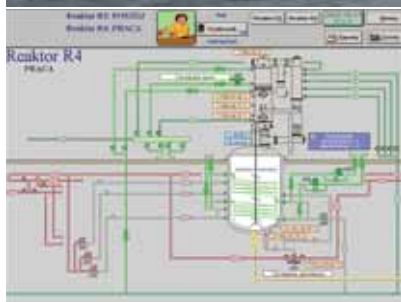
The vessel is heated/cooled with D-tubes and an internal coil.

The Reactors are adapted to heating/cooling with thermal oil. Steam heating is also available.

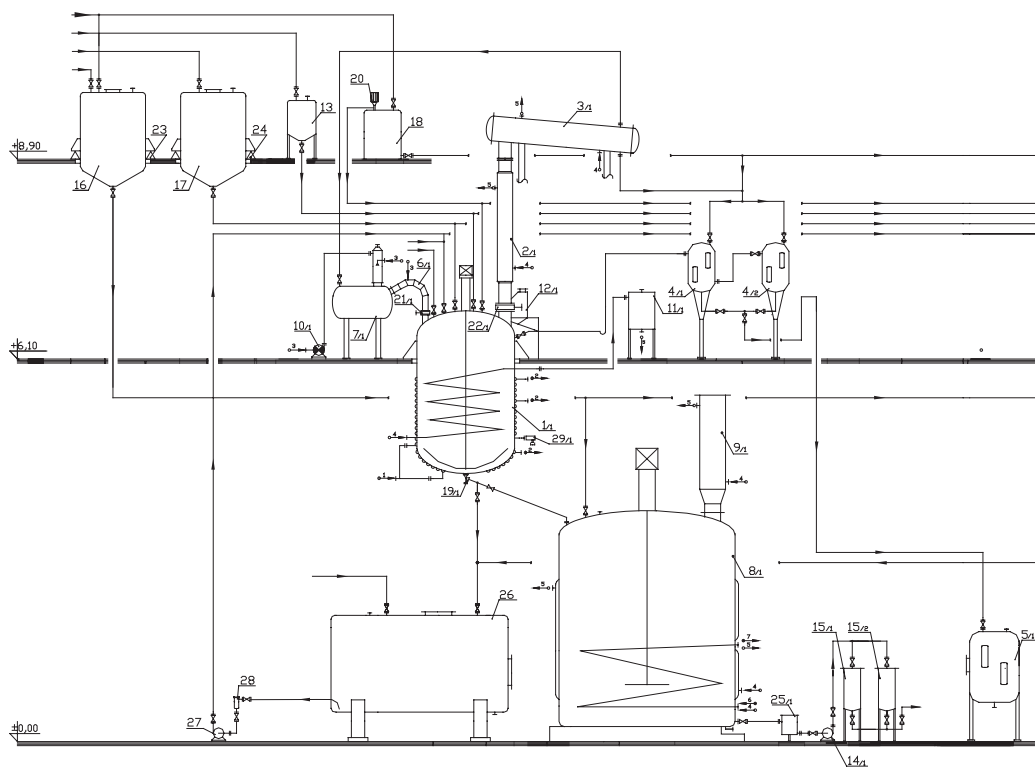
## APPLICATION:

The PRR Reactors can be used for the production of the following resins:

- dispersions - acrylic, PCV,
- alkyd,
- alkyd modified,
- polyester,
- amino,
- phenolic,
- maleic,
- epoxy,
- polyisocyanate.



*Complete resin synthesis  
installation with oil heating.  
Fully automatic.*



## TECHNICAL SPECIFICATIONS:

model	working capacity (m³)	working pressure	main motor power (kW)	main motor power (HP)	agitator rotation (rpm)	diameter x height (mm)	total weight (kg)
PRR-1000/7,5F	1	90% of vacuum	7.5	10,1	0÷112	Ø 1200x3400	1200
PRR-3000/11F	3	90% of vacuum	11	14,8	12÷120	Ø 1400	2000
PRR-5000/18,5B	5	90% of vacuum	18.5	24,8	12÷86	Ø1800x5150	2900
PRR-10000/45F	10	90% of vacuum	45	60,3	0÷80	Ø 2400x6000	5630
PRR-15000/75F	15	90% of vacuum	75	100,6	0÷76	Ø 2600x7450	6100

## OPTIONS:

- complete plants consisting of:
  - resin synthesis installation:
    - reactors,
    - condensing systems,
    - scrubbing systems,
    - raw material feeding systems,
    - thinning-down vessels,
  - fully automatic process control,
  - heating stations for oil (electric, gas, oil), cooling and vacuum equipment, cleaning installations,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).



# Auxiliary machines

- PDC Dust Collectors
- PHP Hydraulic Presses / PTU Tilters
- PPF / PGF Pumping & Filtration units/Filters
- PMV Mobile Vessels

# Dust Collectors

PDC

The PDC Dust Collectors are designed to extract solid particles from the air. Due to the filtration process, the air is clean and dust free. Filtration efficiency is high, up to 100%.

## OPERATION:

Charged air is drawn into the filtration chamber. Inside the chamber, the air passes through a filtration fabric spread on a rectangular frame and becomes clean.

The negative pressure is generated by a fan located on the filter or detached. The filtration fabric regeneration system is an important part of the collector. Regeneration is carried out continuously with a pulse of compressed air blown on the filtration fabric in the opposite direction to the filtered air. The dust is collected in the storage bin underneath the filter.

## APPLICATION:

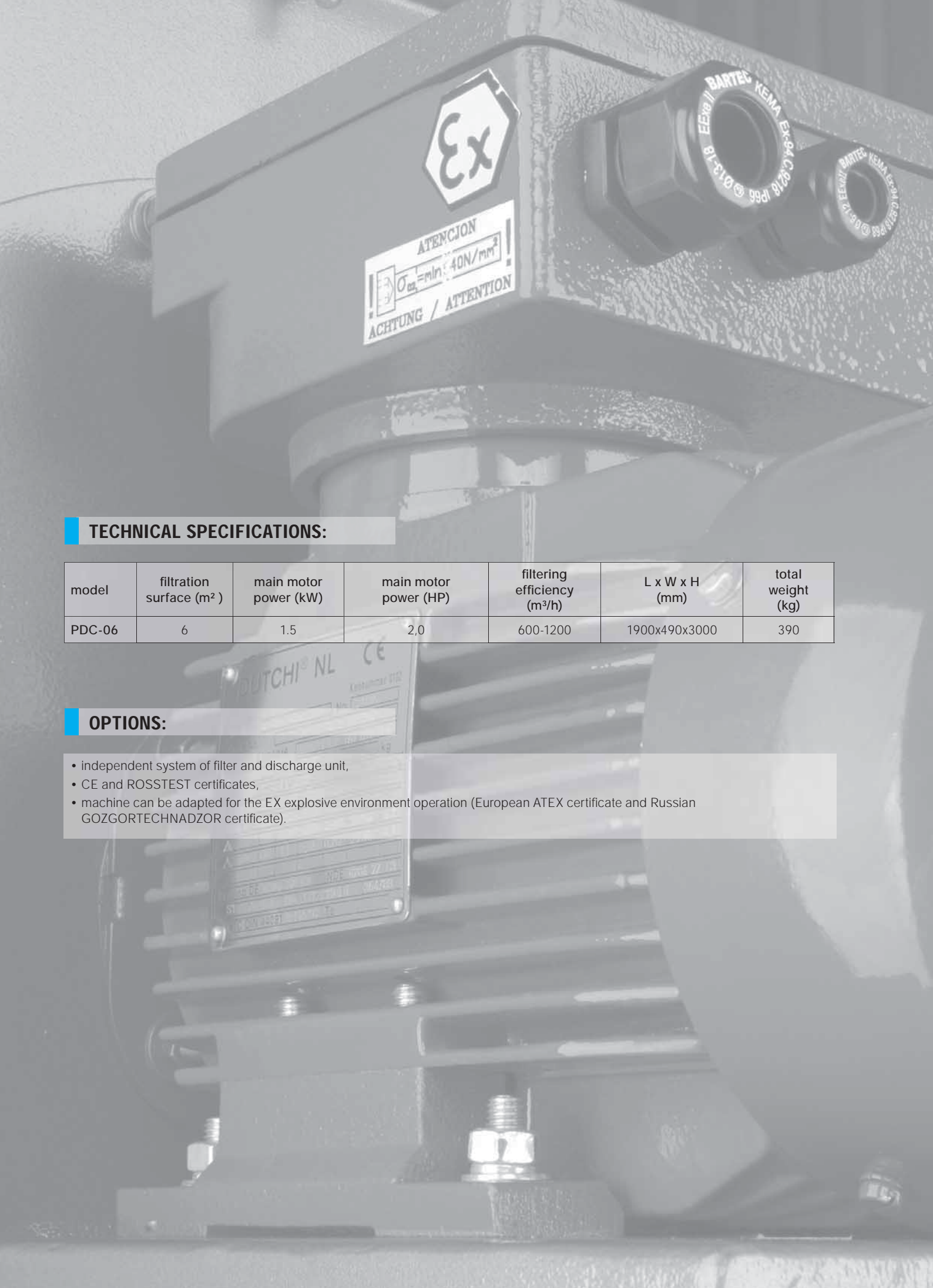
The PDC Dust Collectors are used in many industries, particularly in facilities where the production process creates a lot of dust. Typical locations of dust collectors are charging, discharging and transportation of loose materials, surface cutting, grinding and cleaning operations.

The filter environment temperature range may vary from -20°C to +60°C.



*The PDC Dust Collectors provide dust free feeding of the materials to be dispersed. 100% filtration efficiency.*





## TECHNICAL SPECIFICATIONS:

model	filtration surface (m <sup>2</sup> )	main motor power (kW)	main motor power (HP)	filtering efficiency (m <sup>3</sup> /h)	L x W x H (mm)	total weight (kg)
PDC-06	6	1.5	2,0	600-1200	1900x490x3000	390

## OPTIONS:

- independent system of filter and discharge unit,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Hydraulic Presses

PHP

## Tilters

PTU

The Hydraulic Press is used for pressure vessel discharging of high viscosity products. The Hydraulic Press significantly decreases the duration of vessel discharging and ensures a clean process.

The Vessel Tilter is an economic alternative of the Hydraulic Press.

### OPERATION:

#### The Press

A piston installed on the piston rod of the hydraulic servo is located inside the frame that moves on slideways fixed to vertical pillars.

The hydraulic unit presses oil into the hydraulic servo causing the piston rod to move up or down. The piston moving up lifts an arm with the vessel to the highest position. In this position, the frame is blocked with special bolts and the piston slowly enters the vessel, pressing its surface against the mass located in the vessel. The pressure created enables a mass outflow through the discharge drain to a given container. Discharging can be processed through a semi-automatic filling station PFS.

#### The Tilter

The lifted vessel is tilted. This causes gravity vessel discharging.

### APPLICATION:

The PHP Hydraulic Press and PTU Tilters can be used for the production of:

- plasters,
- putties,
- adhesives,
- silicones.



*The Hydraulic Press enables quick and complete vessel discharging. This process can be connected to product packaging.*



## TECHNICAL SPECIFICATIONS: Presses PHP

model	compatible vessel volume (ltrs)	compatible machine	pressure of extruded media [max] (MPa)	hydraulic unit electric motor power (kW)	L x W x H (mm)	total weight (kg)
PHP-250	250	PWD	0.6	3.0	1900x1000x4000	1400
PHP-450	450	PMD-DISPERMIX	0.6	3.0	1900x1000x4000	1500
PHP-800	800	PMD-BUTTERFLY	0.4	3.0	2100x1000x4550	2120

## Tilters PTU

model	compatible vessel volume (ltrs)	compatible machine	hydraulic unit electric motor power (kW)	L x W x H (mm)	total weight (kg)
PTU-450	450	PMD-DISPERMIX	1.5	1600x500x4500	600

## OPTIONS:

- the hydraulic press can be fitted to the dissolver vessel,
- the hydraulic press can be connected to liquid materials dosing stations (PDS) for non-flowing components dosing,
- semi automatic filling station PFS/250, PFS/450, PFS/800,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate),

# Pumping & Filtration Units

PPF/PGF

The Pumping & Filtration Units are designed for the simultaneous pumping and filtration of liquid materials, particularly paint before packaging. The unit is fixed on the trailer which facilitates transportation and use in the area where the unit is required.

## OPERATION:

The Pumping & Filtration Unit operates on a pressure filtration basis. The liquid under pressure is centrally directed from the top or side to a bag filter. This method of liquid feeding enables even loading and filtration area use, as well it prevents flow disturbances. Special handles enable quick and easy replacement of the filter bag. Depending on the type, the Pumping & Filtration Unit is equipped with a gear pump, screw pump or pneumatic pump.

The filter housing is made of stainless steel.

The filter is compatible with filtration systems of many manufacturers.

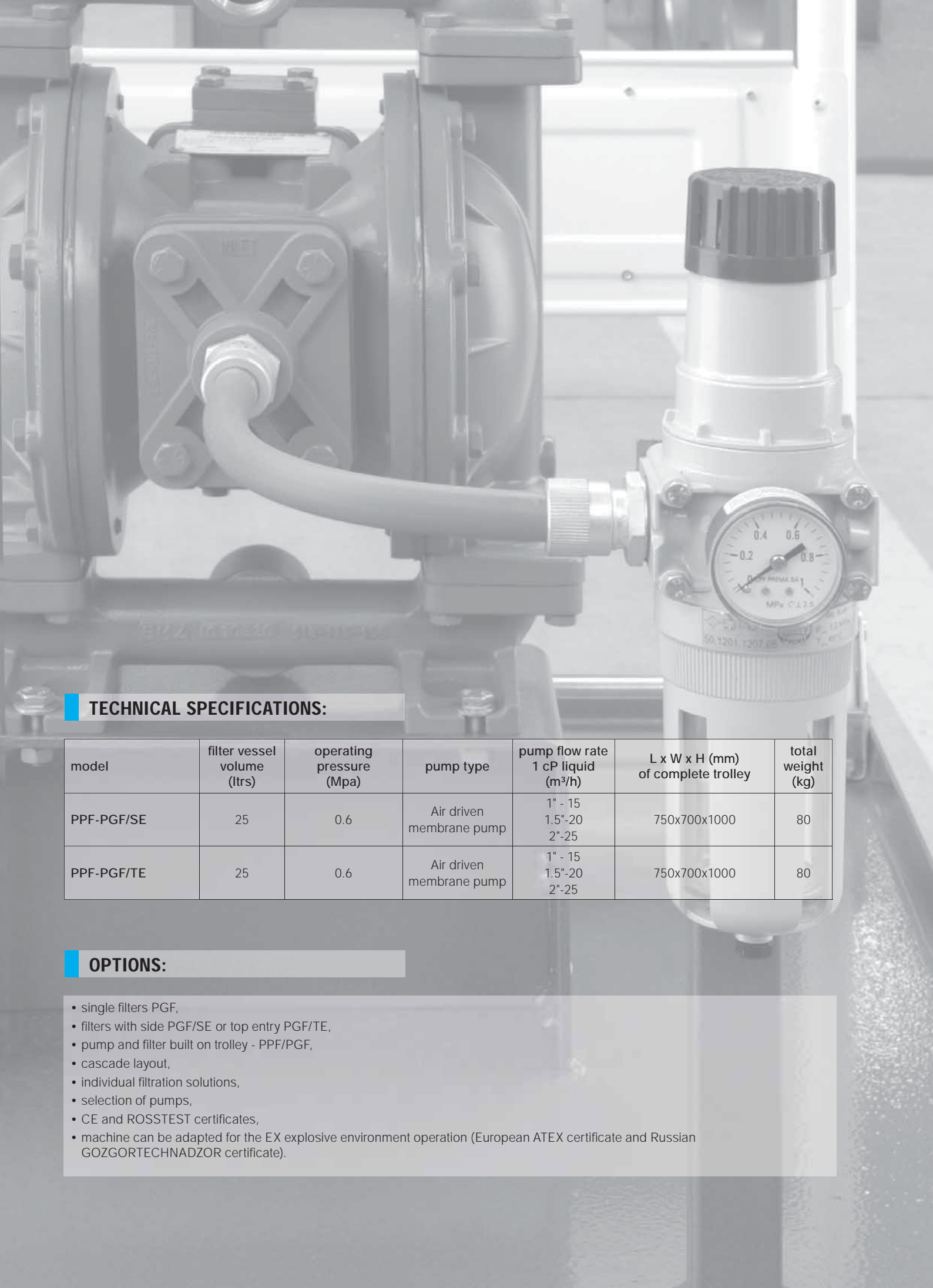
## APPLICATION:

The Pumping & Filtration Units can be used in every industry. Our applications include the filtration of:

- coatings
- technological water,
- cooling water,
- contaminated water,
- mineral, vegetable and animal oils,
- hydraulic oils,
- cosmetics,
- petroleum products,
- acid and base solutions,
- resins, paints and varnish,
- sugar syrup,
- beer and other alcohol beverages,
- juices and beverages,
- photographic emulsions and liquids,
- pharmaceutical industry semi- and finished products.

*The unit is mounted onto a trailer which facilitates transportation and use in the area where the unit is required.*





## TECHNICAL SPECIFICATIONS:

model	filter vessel volume (ltrs)	operating pressure (Mpa)	pump type	pump flow rate 1 cP liquid (m³/h)	L x W x H (mm) of complete trolley	total weight (kg)
PPF-PGF/SE	25	0.6	Air driven membrane pump	1" - 15 1.5"-20 2"-25	750x700x1000	80
PPF-PGF/TE	25	0.6	Air driven membrane pump	1" - 15 1.5"-20 2"-25	750x700x1000	80

## OPTIONS:

- single filters PGF,
- filters with side PGF/SE or top entry PGF/TE,
- pump and filter built on trolley - PPF/PGF,
- cascade layout,
- individual filtration solutions,
- selection of pumps,
- CE and ROSSTEST certificates,
- machine can be adapted for the EX explosive environment operation (European ATEX certificate and Russian GOZGORTECHNADZOR certificate).

# Mobile process vessels

PMV

PMV Mobile process vessels are compatible with all machines manufactured by PROFARB - Dissolvers, Mills, Mixers, Hydraulic Presses and Dosing stations PDS.

## OPERATION:

The vessels are made of stainless steel which ensures the purity of the materials coming in contact with different substances.

The vessels are equipped with discharging connections.

The vessels are also equipped with turning and straight wheels, and may also be delivered on legs, adapted for forklifts.

## APPLICATION:

The PMV Mobile Vessels are compatible with:

- mixers,
- dissolvers,
- mills,
- hydraulic presses,
- dosing stations.



*High quality of materials.  
The vessels are compatible  
with every production  
machine.*

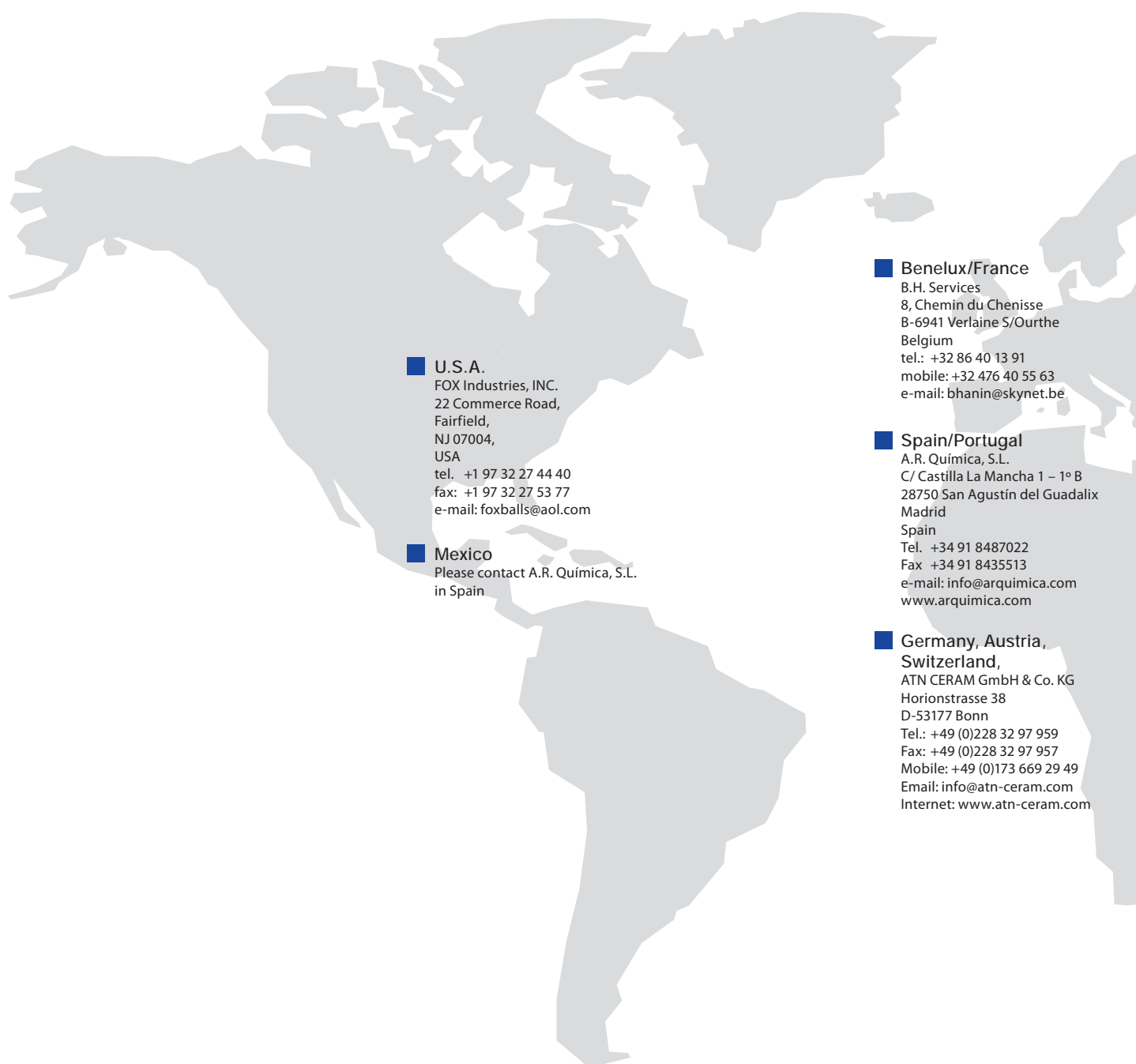


## TECHNICAL SPECIFICATIONS:

model	working capacity (ltrs)	diameter (mm)	height (with wheels) (mm)	total weight (kg)
PMV-50	50	410	640	30
PMV-100	100	500	740	37
PMV-200	200	700	895	72
PMV-250	250	750	830	75
PMV-250/R	250	750	830	170
PMV-450/R	450	900	1000	380
PMV-500	500	955	1150	130
PMV-800/R	800	1090	1380	216
PMV-1000	1000	1200	1250	175
PMV-1500	1500	1350	1300	242

## OPTIONS:

- pressure cooling/heating jacket, PMV/CP,
- non-pressure cooling/heating jacket, PMV/CN,
- reinforcement for hydraulic press, PMV/R,
- vacuum type, PMV/V,
- special designs,
- lids.



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