

PX-SR 50 E
PX-SR 90 D

*Tabletop Lab
Stirrers,
Eco-Line & Digital*

*Mixing Technology
in the Laboratory*



MIXING

DISSOLVING

STIRRING



KINEMATICA.CH

Dispensing and Mixing Technology

POLYMIX® PX-SR 50 E & PX-SR 90 D - Table top lab stirrers

KINEMATICA is the leading manufacturer of homogenizing, mixing and milling equipment based on our technology of rotor/stator dispersing principles.

The stirrer POLYMIX® PX-SR 50 E is designed for laboratory work in the range of medium viscosities up to 20 liters. The system has been developed and certified regarding the latest safety standards and regulations. High operational safety is ensured (e.g. by the integrated blocking protection, the builtin overheating protection and the safety stand for avoiding any tilting).

Further features of the PX-SR 50 D:

- **Stepless speed regulation**
- **Up to 1500 rpm**
- **Speed scale**
- **High torque**
- **High operating safety**
- **CE mark**

The stirrer POLYMIX® PX-SR 90 D is designed for laboratory work in the range of medium viscosities up to 25 liters. The system has been developed and certified regarding the latest safety standards and regulations. High operational safety is ensured (e.g. through the integrated blocking protection, the built-in overheating protection and the safety stand for avoiding any tilting).

Further features of the PX-SR 90 D:

- **Constant speed through digital regulation**
- **Stepless speed regulation**
- **Digital LED for speed indication**
- **High torque**
- **Rotational direction selectable**
- **High operating safety**
- **Overload indication**

TECHNICAL DATA PX-SR 50 E



Order No. 35010008	PX-SR 50 E, 230V, EU-cable
Order No. 35010010	PX-SR 50 E, 230V, CH-cable
Order No. 35010009	PX-SR 50 E, 100-120V, US-cable
Motor power, Type	115 W (Input) / 80 W (Output), DC motor
Stirring volume (H ₂ O)	20 l
Viscosities up to	15'000 mPas
Supply voltage	230V / 50 Hz or 100-120V / 60 Hz
Speed	50 - 1'500 min ⁻¹
Noise emission (w/o load)	55 dB(A)
Environment / Protection	0-40°C, 95% rel. humidity IP 20 (EN 61010/61000-6-2/3)
Dimensions	95 x 210 x 247 mm
Weight	3 kg


TECHNICAL DATA PX-SR 90 D



Order No. 35010005	PX-SR 90 D, 230V, EU-cable
Order No. 35010007	PX-SR 90 D, 230V, CH-cable
Order No. 35010006	PX-SR 90 D, 100-120V, US-cable
Motor power, Type	88 W (Input) / 60 W (Output), DC motor
Stirring volume (H ₂ O)	25 l
Viscosities up to	15'000 mPas
Supply voltage	230V / 50 Hz or 100-120V / 60 Hz
Speed	50 - 2'000 min ⁻¹
Noise emission (w/o load)	66 dB(A)
Environment / Protection	0-40°C, 95% rel. humidity IP 20 (EN 61010/61000-6-2/3)
Dimensions	95 x 210 x 247 mm
Weight	3 kg

Further equipment & Order information


STAND



(A) PX-SR 50 E with stirrer and the ST-P20/800 safety stand


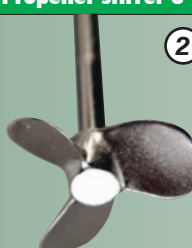




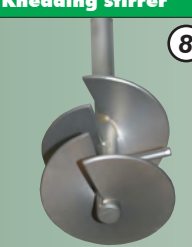
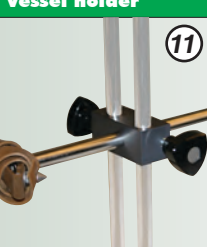

(B) PX-SR 90 D with stirrer and the ST-P20/800 safety stand

FRONT PANEL



(A) PX-SR 50 E Front panel with control knob and speed scale

(B) PX-SR 90 D Front panel with LED display, control knob and overload indication

Model	Propeller stirrer 4	Propeller stirrer 3	Turbine stirrer	Dissolver	Centrifugal stirrer	Flat stirrer
						
Description	Standard stirrer, 4 blades. Top-down suction of the fluid. Local shear forces. Generates axial flow in the vessel.	Stirrer with 3 blades. Favourable to flow. Top-down and bottom-up suction of the fluid. Low shear forces.	Top-down suction of the fluid. Generates axial flow in the vessel. Low shear forces.	Radial flow. Top-down and bottom-up suction of the fluid. High turbulences, high shear forces, particle crushing.	Two blade stirrer. Open up at increasing speed. For stirring in round bottles with small bottle neck. Acts like a propeller stirrer.	Tangential flow. Low turbulences. Good heat transfer. Sparing treatment of the product.
Model	Anchor stirrer	Kneading stirrer	Potter	Safety stand	Vessel holder	Safety ring
						
Description	Tangential flow, high shear rates in the border area. Few disposal at the vessel wall. Use at low speeds. Ideal for fluids with middle to high viscosity.	Tangential flow. Oscilating compression between the kneading planes. Few disposal at the vessel wall.	Consisting of a mortar (borosilikat glass) and a pestle (PTFE). For homogenizing smallest amounts of tissue, pulping of cells and bacteria. No additional fluid necessary.	Double rod stand for high safety and avoding any tilting. Designed according latest safety guidelines. With boss head for the drive unit.	Vessel holder for fixing any mixing/processing tank. Suitable for the safety-stand incl. boss head.	The safety ring avoids any uncontrolled downwards movement of the drive unit. Can also be used to fix the working height of the unit.

ORDER INFORMATION ACCESSORIES

Order no.	Description	Shaft length	Stirrer - Ø	Shaft - Ø	max. speed
35030010	① Propeller stirrer 4 blades	350 mm	50 mm	8 mm	2000 rpm/min ⁻¹
35030011	① Propeller stirrer 4 blades	500 mm	100 mm	8 mm	800 rpm/min ⁻¹
35030020	② Propeller stirrer 3 blades	350 mm	45 mm	8 mm	2000 rpm/min ⁻¹
35030021	② Propeller stirrer 3 blades	350 mm	55 mm	8 mm	2000 rpm/min ⁻¹
35030022	② Propeller stirrer 3 blades	350 mm	75 mm	8 mm	2000 rpm/min ⁻¹
35030030	③ Turbine stirrer	350 mm	30 mm	8 mm	2000 rpm/min ⁻¹
35030040	④ Dissolver	350 mm	80 mm	8 mm	2000 rpm/min ⁻¹
35030050	⑤ Centrifugal stirrer	350 mm	60/15 mm	8 mm	2000 rpm/min ⁻¹
35030060	⑥ Flat stirrer	350 mm	70 mm	8 mm	1000 rpm/min ⁻¹
35030070	⑦ Anchor stirrer	350 mm	45 mm	8 mm	1000 rpm/min ⁻¹
35030080	⑧ Kneading stirrer	350 mm	45 mm	8 mm	2000 rpm/min ⁻¹
35030090	⑨ Potter 2ml with vessel	230 mm	8 mm	6.5 mm	1000 rpm/min ⁻¹
35030091	⑨ Potter 5ml with vessel	230 mm	12 mm	6.5 mm	1000 rpm/min ⁻¹
35030092	⑨ Potter 15ml with vessel	280 mm	19 mm	6.5 mm	1000 rpm/min ⁻¹
35030100	⑨ Potter 2ml with vessel & cooling	230 mm	8 mm	6.5 mm	1000 rpm/min ⁻¹
35030101	⑨ Potter 5ml with vessel & cooling	230 mm	12 mm	6.5 mm	1000 rpm/min ⁻¹
35030102	⑨ Potter 15ml with vessel & cooling	230 mm	19 mm	6.5 mm	1000 rpm/min ⁻¹
35040005	⑩ ST-P20/800 - Safety stand	-	-	-	-
35040050	⑪ Vessel holder	-	-	-	-
35040051	⑫ Safety ring	-	-	-	-

Further Info and Accessories on request



A wide range of products with the finest solution for every application, matched by the superior quality of all components make KINEMATICA a world leader for Dispersing and Mixing technology.

With Keen Eyes ...

Development knows no rest at KINEMATICA. Our systems are constantly upgraded to reflect the state-of-the-art technology and the needs of the market. KINEMATICA has always had a keen eye for major advances, as proven by various patents. The rotor/stator principle for dispersing technology was conceived and developed at KINEMATICA and has become the world standard.

... For Your Needs

Applications for Dispersing/Homogenizing Technology are always on the increase. KINEMATICA continually creates new areas of processing applications based on innovations. We do not neglect the human factor as it is exemplified by the safe and comfortable operation and noise reduction of our high-speed systems.

Please, get in touch with us, our local appointed agent or your preferred dealer. We will be pleased to supply more details or arrange a personal demonstration of our POLYTRON® and MEGATRON® systems.

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PX-MFC 90 D
Hammer mill & Blade mill

Micro Milling Technology in the Laboratory

DRY MILLING
HAMMER GRINDING
BLADE GRINDING

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PT 3100 D
Digital High-End Benchtop Homogenizer with PC Interface

Homogenizing and Mixing Technology for the Laboratory

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WET MILLING
MIXING
POWDER INTRODUCTION
FOAM PRODUCTION

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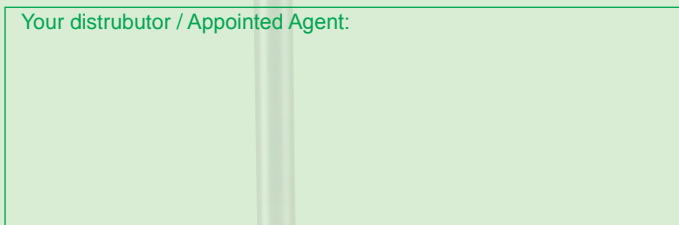


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