



POLYMIX[®] PX-IG 2000



Impact Grinder

GRINDING DEVICES FOR BUDGET-CONSCIOUS LABS

For a variety of applications

« Process volumes max. 2x 50 ml »



KINEMATICA
DISPERSING AND MIXING TECHNOLOGY

POLYMIX® – Efficient and Economical

POLYMIX® PX-IG 2000 is developed for scientists, who need efficient disruption of small amounts of sample. The Grinder uses a powerful DC brushless maintenance free motor and is controlled by a digital processor. With a programmable frequency from 1 to 30 Hz and a timer from 5 seconds to 60 minutes the Grinder can quickly and efficiently disintegrate and or homogenize samples.

TECHNICAL SPECIFICATONS

Voltage

230V / 50Hz or 100-120V / 60Hz

Power

200VA

Time

5s - 60 min, up to 10 min
in steps of 1sec, above in
steps of 10s, HOLD function

Vibrating frequency

1 - 30Hz, in steps of 0,1Hz

Max. volume

2 x 50 ml

Net weight

42 kg

Dimensions

365 x 405 x 225 mm

Relative humidity (max.)

80% during storage
80% during operation

Operating temperature

0 – 40 °C

Protection class acc. to DIN

IP 20

EMC standards

IEC/EN 61000-6-2 / EN 61000-6-3

Safety standard

IEC/EN 61010-2-51

APPLICATIONS

POLYMIX® PX-IG 2000 is useful tool for disintegration of many materials and can be used on different fields of science: microbiology, biotechnology, medicine, veterinary, chemistry, geology, metallurgy

POSITIVE EXAMPLES WITH OUR DNA KITS

Airborne pathogen transmission, Detection of Mycobacterium tuberculosis in the Air, Detection of Avian Influenza Virus in Surface Water, Direct Detection of Pathogens in Food and Water, Prevent biofilm growth in the distribution systems, High-yield DNA/RNA extracting method

DETECTION OF BACTERIAL GENERA LIKE:

Acinetobacter, Campylobacter, Gallionella, Rhizobiales, Rhodococcus, Microbacterium , and classes like Xanthomonadaceae

HOLDERS

PTFE Holder for microtiter plates - 96 well (3x standard or 1 deep well)

PTFE Holder for 24 x 1.5ml - 2.0ml Eppendorf tubes

Holder for 10 x 5 ml conical tubes (FALCON tubes - 5 tubes in holder)

Special holders for homogenization on demand



EASY TO USE

One knob controller together with bright LED display is simple to use and gives all important information at once

POWERFUL & QUICK

Broad range of standard and custom designed tube holders makes POLYMIX® PX-IG 2000 as a suitable tool for dedicated scientific work as well as daily routines. Efficient disintegration, homogenization and mixing in second

MOST ADVANCED TECHNOLOGY

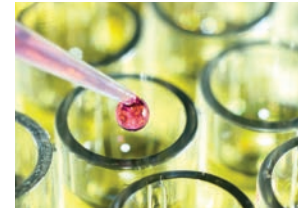
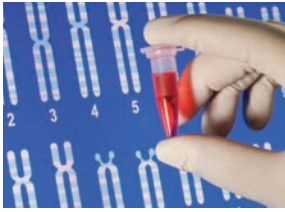
Powerful DC brushless motor, which is controlled by digital processor, needs no maintenance

BROAD RANGE OF JARS & TUBE HOLDERS

Largest Jar capacity 2 x 50 ml, Hard steel and stainless steel jars, Tungsten Carbide jar, Rounded PTFE Jars, Squared PTFE Jars, Special adopters by customer requests available



Application ranges



MATERIAL FOR EXAMINATION	FIELD OF USE	ADAPTOR
Granite, Marble, Clay mineral	Geology	Stainless steel, 50 ml
Chicken bone	Biomedicine	Stainless steel, 50 ml
Slag	Metallurgy	Stainless steel, 50 ml
Titanium dioxide	Chemical industry	Tungsten carbide, 25 ml
Ceramic compacts	Processing of ceramic powders	Tungsten carbide, 25 ml
Hard material (rust, soil, bacteria, fungi, biofilm)	Molecular biology	PTFE, 6 x 2 ml
Soft material (tissue, blood, food, bacteria, fungi, cell, plant)	Molecular biology	PTFE, 6 x 2 ml
Dry material (rust, soil, food, plant)	Molecular biology	PTFE, 6 x 2 ml
Liquid material (blood, food, drink, bacteria, fungi, cell)	Molecular biology	PTFE, 6 x 2 ml
Body fluid samples	Medicine	PTFE, 6 x 2 ml
Human blood	Biomedicine	PTFE, 6 x 2 ml
Dog mastocytoma	Biomedicine veterinary	PTFE, 6 x 2 ml
Oil extraction from fermented broth (clavulanic acid)	Pharmacy	Holder for 10 x 50 ml conical tubes (FALCON tubes)
Disruption of intestine material, isolation of bacteria	Biology	PTFE, 6 x 2 ml
DNA Extraction from Frozen Leaves	Biology	Adaptors for 2 ml screw cup tubes
Bone and teeth grinding for DNA researches	Forensic science	Stainless steel, 25 ml

GRINDING JAR (nominal vol)	SAMPLE AMOUNT	FEED SIZE (max.)	BALLS
1.5 ml	0.5 ml	1.0 mm	Ø3.0 mm
1.5 ml	0.5 ml	1.0 mm	Ø5.0 mm
5.0 ml	2.0 ml	2.0 mm	Ø7.0 mm
10 ml	4.0 ml	4.0 mm	Ø10 mm
25 ml	10.0 ml	10 mm	Ø15 mm
50 ml	20.0 ml	15 mm	Ø25 mm



Order information and accessories

GRINDER UNIT	293529	25 ml	295944	Ø10 mm (10 pcs)	000250	Ø250 µm	
Sales No.: Designation	293542	35 ml	295945	Ø12 mm (10 pcs)			
289728	POLYMIX® PX-IG 2000, 230 V	293546	50 ml	295946	Ø20 mm (10pcs)	TUNGSTEN CARBIDE BALLS	
289729	POLYMIX® PX-IG 2000, 100-120V					315284	Ø3.0 mm (20 pcs)
		PTFE JAR (SET OF 2)	HARD STEEL BALLS			315286	Ø5.0 mm (20 pcs)
INOX JAR (SET OF 2)	290086	12 x 0.2 ml	311998	Ø3.0 mm (20 pcs)		315288	Ø7.0 mm (20 pcs)
289934	1.5 ml	290081	12 x 2.0 ml	311610	Ø5.0 mm (20 pcs)	315289	Ø20 mm (5 pcs)
289945	5.0 ml	290040	6 x 2.0 ml	311999	Ø7.0 mm (20 pcs)		
289954	10 ml	290042	6 x 2.0 ml (screw cap tube)	311621	Ø10 mm (10 pcs)	OTHER ACCESSORIES	
289958	25 ml			311622	Ø12 mm (10 pcs)	289913	Additional Wrench (set)
289963	35 ml	TUNGSTEN CARBIDE JAR (SET OF 2)		311623	Ø25 mm (5 pcs)	700700	Cover
289969	50 ml	314806	25 ml			315309	Tube 1.5 ml with screw cup (100 pcs in set)
		INOX BALLS		AGATE BALLS		315316	Tube 2.0 ml with screw cup (100 pcs in set)
HARD STEEL JAR (SET OF 2)	293492	1.5 ml	311988	Ø3 mm (20 pcs)			
293523	5.0 ml	295943	Ø5.0 mm (20 pcs)	311640	Ø10mm (10 pcs)		
293526	10 ml	311989	Ø7.0 mm (20 pcs)			GLASS BALLS	
				000106	Ø106 µm		

YOUR APPLICATION IS OUR FOCUS!

KINEMATICA is a leading manufacturer of dispersing and mixing technology for standard and customized applications in the lab, pilot plant and production areas of pharmaceutical, chemical, food, cosmetic and biotech or life science companies worldwide.

Our POLYTRON® batch and MEGATRON® In-line Homogenizers are suitable for many applications:

- Dispersing of non-soluble liquids or solids into liquids to finest emulsions/multiple emulsions or suspensions
- Induction and dispersion of powders into liquids
- Foaming by gas induction into liquids
- Disintegration of tissue samples for preparation in further analysis
- Dispersing of various samples for quality control

We also deliver POLYMIX® Micro Dry Grinding Mills and a variety of POLYMIX® and MICROTRON® Overhead Stirrers and Mixers.

Whatever your application, we are confident that our team of specialists, with over 60 years of experience, will provide the best solution for you.

YOUR SATISFACTION IS OUR GOAL!



KINEMATICA
DISPERSING AND MIXING TECHNOLOGY

AG

Dispersing and Mixing Technology

Luzernerstrasse 147a
6014 Luzern
Switzerland

Tel. +41 41 259 65 65
Fax +41 41 259 65 75
E-Mail info@kinematica.ch

BRAND NAMES WITH HISTORY



Batch dispersing/homogenizing units



High turbulent mixing



Inline dispersing/homogenizing units



Dispersing/homogenizing Reactors



Stirrers and dry Mills



Mixer/Blender



Viscometers

