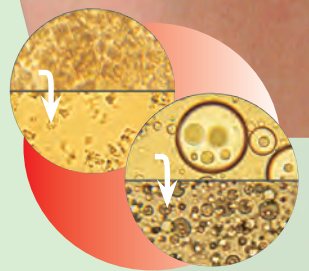
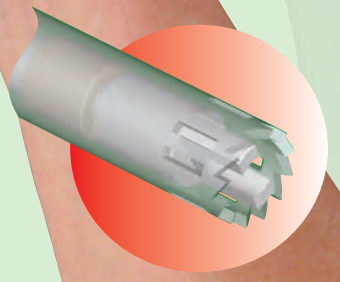


## PT 1200 E

Ergonomic hand-held homogenizer

Homogenizing and Mixing Technology for the laboratory

- DISPERSING
- HOMOGENIZING
- EMULSIFYING
- SUSPENDING
- WET MILLING
- MIXING



# KINEMATICA.CH

Dispensing and Mixing Technology

**Homogenizer for small sized lab sample treatment**

The Rotor/Stator principle for homogenizing equipment, originally invented by KINEMATICA, has become the accepted standard for homogenizing, dispersing and emulsifying worldwide.

The **POLYTRON® PT 1200 E „Eco Line“** System belongs within the KINEMATICA homogenizer product range to the handheld models for small sized applications in the range of approx. 0.05 - 250 ml.

The **POLYTRON® PT 1200 E Handheld Homogenizing System** features:

- **unique ergonomic and**
- **user friendly design**
- **100 Watt powerful low voltage motor with safety power supply**
- **speed regulation up to 25 000 RPM**
- **fast coupling for quick change of the Dispersing-Aggregate**
- **CE label**

**POLYTRON® EasyClean Dispersing Aggregates**

The modern **EC** aggregates are equipped with saw-teeth which increase the efficiency in the preliminary size reduction of the droplets/particles and considerably shortens the processing time. The tips of the teeth are secured by a safety ring which avoids the teeth from bending. The whole dispersing aggregate is made from **superior grade stainless steel (1.4435/316L)** and is **electropolished**.

**POLYTRON® EC** dispersing aggregates are equipped with special slide bearings made from a Teflon compound, which have extraordinary mechanical characteristics and superior chemical resistance and FDA approval. The complete aggregate can be dismantled in two to three steps, easily cleaned and sterilised i.e. autoclaved.

**Technical Data**



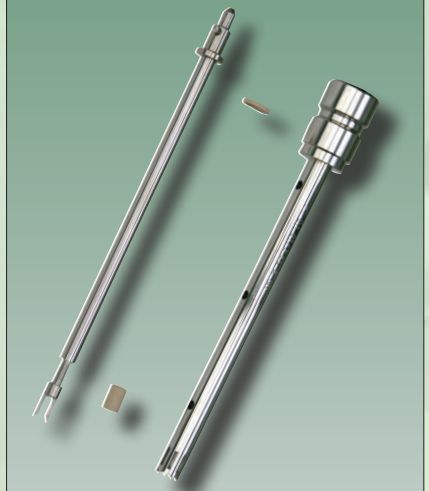
Motor Power, Type	100 W / 24V Low Voltage Motor
Speed control	integrated speed regulation with control knob
Soft Start	Yes
Supply Voltage	230V / 100-120V, 50/60 Hz (Transformer)
Speed max.	0 - 25'000 rpm
Noise emission	≤ 76 dB (A) at approx. 25'000 rpm ≤ 66 dB (A) at 20'000 rpm
Ambient	0 - 40°C, 95% max. rel. humidity
Standards	EN / IEC 61010, 61326-1 für EMV & SAFETY
Protection class	IP 20
Dimensions	220 x 44 x 55 mm (LxWxH)
Weight	0.44 kg

**Quick coupling**



A unique quick coupling system (Type E) allows to mount or change the dispersing aggregate with one hand within seconds.

**EasyClean**



The complete EC aggregate can be dismantled in two to three steps, easily cleaned and sterilised i.e. autoclaved.

# Further Equipment & Order information

## Drive unit



Order No.	Description	
11010027	PT 1200 E, 230V (CH)	Drive unit with power supply
11010025	PT 1200 E, 230V (EU)	
11010028	PT 1200 E, 230V (UK)	
11010026	PT 1200 E, 100-120V	
11035002	Adapter PT-DA / PT-DA (E/C)	Allows to use PT-DA-Aggregates for C-coupling (PT1200C,CL,B)

## Dispersing Aggregates



Order No.	Description	Rotor-Ø / Stator-Ø	Type of coupling	Length of shaft	Tip speed (max.)
<b>Ø 3mm Dispersing-Aggregate</b>					
11030004	PT-DA 03/2EC-E050	2.2/3.5 mm	E	50 mm	3 m/s
<b>Ø 5mm Dispersing-Aggregate</b>					
11030012	PT-DA 05/2EC-E085	3/5.5 mm	E	85 mm	4 m/s
<b>Ø 7mm Dispersing-Aggregate</b>					
11030031	PT-DA 07/2EC-E107	5/7.8 mm	E	107 mm	6.5 m/s
11030030	PT-DA 07/2SYN-E082 (Package at 25 pcs each sterile packed)	5/7.8 mm	E	82 mm	6.5 m/s
<b>Ø 12mm Dispersing-Aggregate</b>					
11030047	PT-DA 12/2EC-E123	9/12 mm	E	123 mm	12 m/s
11030049	PT-DA 12/2WEC-E157	9/12 mm	E	157 mm	12 m/s

## Stand



Holder System for drive unit, transformer, four dispersing aggregates and two tools (the holder system with order number 11040006 is not including drive unit, transformer, dispersing aggregates and tools)

Order No.	Description
11040006	HS 1200 E

## Dispersing Vessels



### The suitable dispersing vessel

Most effective are the specially designed cloverleaf shaped dispersing vessels. Thanks to the concentrated turbulences by built in baffles, the working time is reduced considerably. Available from borosilicate glass or stainless steel, with/without lids in different sizes from 25 ml up to 10 ltrs.

Description	Order No.	Dim. (mm) Ø / H	Working Vol.	Model	
GS 15	11050010	30 / 150	35 ml	Clover leaf shaped	Borosilicate glass
GS 25	11050011	55 / 150	150 ml		
GS 15 K	11050020	30 / 150	35 ml	Clover leaf shaped	Borosilicate glass
GS 25 K	11050021	55 / 150	150 ml		
GS 15 KL 7.5	11050030	30 / 150	35 ml	Clover leaf shaped	Borosilicate glass
GS 25 KL 12	11050031	55 / 150	150 ml		

## Dispersing Aggregates (choice)

Model	PT-DA 03/2EC-E050	PT-DA 05/2EC-E085	PT-DA 07/2EC-E107	PT-DA 07/2SYN-E082	PT-DA 12/2EC-E123	PT-DA 12/2WEC-E157
	<ul style="list-style-type: none"> <li>Standard model</li> <li>Rotor/Stator with one teeth row each</li> </ul>	<ul style="list-style-type: none"> <li>Standard model</li> <li>Rotor/Stator with one teeth row each</li> </ul>	<ul style="list-style-type: none"> <li>Standard model</li> <li>Rotor/Stator with one teeth row each</li> </ul>	<ul style="list-style-type: none"> <li>Synthetics Aggregate</li> <li>Rotor/Stator with one teeth row each</li> </ul>	<ul style="list-style-type: none"> <li>Standard model</li> <li>Rotor/Stator with one teeth row each</li> </ul>	<ul style="list-style-type: none"> <li>W-generator model</li> <li>Rotor/Stator with one teeth row each</li> </ul>
<b>Working Volume (based upon water)</b>	0.05 - 2 ml	0.1 - 5 ml	0.3 - 10 ml	0.3 - 10 ml	2 - 250 ml	2 - 250 ml
<b>Applications</b>	<ul style="list-style-type: none"> <li>Dispersing of small quantities of plant, animal or human tissues (also in round Eppendorf-Tubes)</li> <li>Unlocking of cells</li> <li>Dissolving of solids</li> <li>Extraction</li> </ul>	<ul style="list-style-type: none"> <li>Dispergieren von pflanzlichen, humanen oder tierischen Feingewebe (also in round Eppendorf-Tubes)</li> <li>Unlocking of cells</li> <li>Dissolving of solids</li> <li>Extraction</li> </ul>	<ul style="list-style-type: none"> <li>Dispersing of cells and tissues in a small amount of liquid</li> <li>Unlocking of cells</li> <li>Dissolving of solids</li> <li>Extraction</li> </ul>	<ul style="list-style-type: none"> <li>Dispersing of cells and tissues in a small amount of liquid</li> <li>Unlocking of cells</li> <li>Dissolving of solids</li> <li>Extraction</li> <li>„Single-use“ applications</li> </ul>	<ul style="list-style-type: none"> <li>Dispersing of plant, human or animal tissues, resins and pigments</li> <li>Dissolving of solids</li> <li>Extraction</li> <li>Production of suspensions and emulsions</li> </ul>	<ul style="list-style-type: none"> <li>Dispersing of fibrous, stringy and brittle samples (e.g. flesh)</li> </ul>



# HOMOGENIZING AND MIXING TECHNOLOGY



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.

**POLYTRON** *Finest Swiss Made solutions... worldwide!*

**PT 1600 E**

Benchtop Homogenizer - Economic version

Homogenizing and Mixing Technology for the laboratory

- DISPERSING
- HOMOGENIZING
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- MIXING



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**POLYTRON** *Finest Swiss Made solutions... worldwide!*

**PT 10-35 GT**

Benchtop lab homogenizer for a wide range of applications

Homogenizing and Mixing Technology for the laboratory

- DISPERSING
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- POLYMIX**
- MEGATRON**
- REACTRON**

Homogenizing and Dispersing Technology

for

**Laboratory & Pilot Plant**

- HOMOGENIZING
- EMULSIFYING
- SUSPENDING
- WET MILLING
- MIXING
- DRY MILLING
- FOAM PRODUCTION
- POWDER INTRODUCTION



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- POLYMIX**
- REACTRON**

Homogenizing and Dispersing Technology

for

**Pilot Plant & Production**

- HOMOGENIZING
- EMULSIFYING
- SUSPENDING
- WET MILLING
- MIXING
- POWDER INTRODUCTION
- FOAM PRODUCTION



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