

Finest Solutions ... worldwide!

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 proved 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 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 for a personal demonstration of our POLYTRON® and MEGATRON® systems.

POLYTRON®
DISPERSING AND MIXING TECHNOLOGY BY KINEMATICA

Dispersing Technology for the Laboratory
POLYTRON® Systems PT 1200 B/C/CL - Handheld Dispersers

KINEMATICA AG
Dispersing and Mixing Technology

POLYTRON®
DISPERSING AND MIXING TECHNOLOGY BY KINEMATICA

Dispersing Technology for the Laboratory
System POLYTRON® PT 3100

KINEMATICA AG
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POLYTRON®
BIOTRONA®
MEGATRON®
REACTRON®
POLYMIX®

Dispersing Technology for Laboratory and Pilot Plant
Batch and In-line Dispersing Equipment

KINEMATICA AG
Dispersing and Mixing Technology

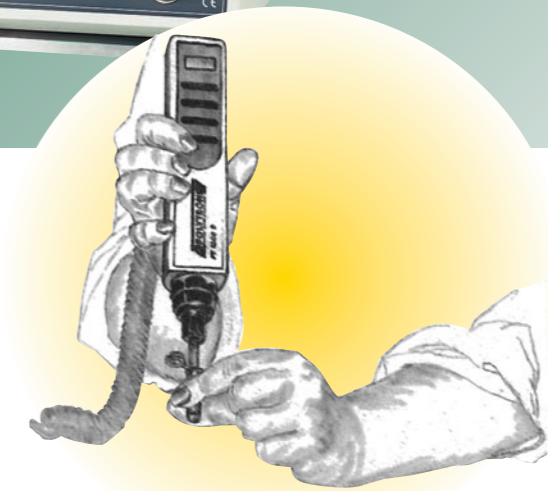
POLYTRON®
BIOTRONA®
MEGATRON®
REACTRON®
POLYMIX®

Homogenizing and Dispersing Technology
In-line and Batch Processing for Pilot Plant and Production

KINEMATICA AG
Dispersing and Mixing Technology

POLYTRON®
DISPERSING AND MIXING TECHNOLOGY BY KINEMATICA
DIGITAL

Dispersing Technology in the Laboratory
System POLYTRON® PT 1300 D Digital - handheld disperser



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KINEMATICA AG
Dispersing and Mixing Technology

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POLYTRON® PT 1300 D - innovative, elegant, comfortable **DIGITAL**

High-End for Smallest quantities

The rotor/stator principle for dispersing equipment, originally invented by KINEMATICA, has become the accepted standard for homogenizing, dispersing and emulsifying world-wide.

The PT 1300 D counts within the POLYTRON® handheld range of dispersing systems for the laboratory (0.1 ml - 250 ml) as the high-end equipment.

Drive and Control unit

The POLYTRON® PT 1300 D handheld homogenizer is equipped with a 100 Watt powered drive system and control unit which is supplied with 24V safety current by the Power and Supply unit.

The intelligent electronical control system proofs steadily the given speed at the drive system and informs about discrepancy by changing viscosity.


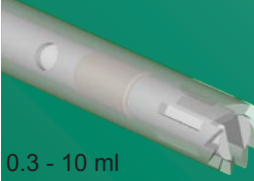
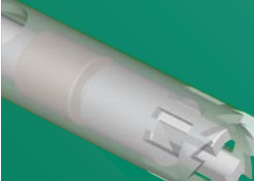
- 100 Watt/24 V powerful drive
- Intelligent control system
- Digital Display
- MEMO function
- Foil keyboard
- Variable speed between 7000 and 30 000 rpm
- Quick coupling for the dispersing aggregates

Quick Coupling for dispersing aggregates

A unique quick coupling allows changing of the dispersing aggregates even with one hand.

POLYTRON® Dispersing Aggregates with Know-How

From a choice of 3 different dispersing aggregates the optimal can be selected for your specific application and processing volume from approx. 0.1 ml up to 250 ml.

Dispersing Aggregate	Application	More Data
 0.1 - 5 ml working volume	PT-DA 1305/2EC Order Code: 11030006 Suitable for test tubes, Eppendorf tubes Vessels with min. internal diameter of 6-7 mm Dissolving of solids in liquid	Solid/Liquid ratio 1:5 Shaft length 55 mm Stator-Ø / Rotor-Ø 5.6 mm / 3 mm Tip speed up to 4.7 m/s
 0.3 - 10 ml working volume	PT-DA 1307/2EC Order Code: 11030021 Suitable for test tubes, Eppendorf tubes Vessels with min. internal diameter of 8-9 mm Dissolving of solids in liquid	Solid/Liquid ratio 1:5 Shaft length 80 mm Stator-Ø / Rotor-Ø 7.8 mm / 5 mm Tip speed up to 7.8 m/s
 2 - 250 ml working volume	PT-DA 1312/2EC Order Code: 11030041 Suitable for KINEMATICA disp. vessel GS 15 and higher, test tubes, round beakers, vessels with min. internal diameter of 15 mm Extractions Producing of suspensions and emulsions	Solid/Liquid ratio 1:10 Shaft length 115 mm Stator-Ø / Rotor-Ø 11.8 mm / 9 mm Tip speed up to 14.1 m/s

EasyClean dispersing aggregates

The modern EC aggregates are equipped with saw-teeth, that increase their 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 ring which avoids the teeth from bending. The whole dispersing aggregate is made from superior grade stainless steel (1.4435/316L).

All these POLYTRON® EC dispersing aggregates are equipped with special slide bearings, which have extraordinary mechanical characteristics and superior chemical resistance. They can be dismantled simply, easily cleaned and sterilised or autoclaved.

Digital Display and Foil Keyboard

With the POLYTRON® PT 1300 D - depending on the chosen dispersing aggregate and the material to be processed - infinitely variable speeds between approx. 7000 and 30 000 rpm can easily and exactly be adjusted and can be read-out from the digital display.

Thanks to the digital display at the POLYTRON® PT 1300 D it is finally possible to work under reproducible conditions with a handheld unit. Additionally a specific speed for the application can be memorized and recalled with a finger tip (MEMO function).

Functional Stand PT-ST 1301 (Order Code: 11040010)

The elegant hinged stand PT-ST 1301 offers maximum flexibility due to hands free operations when you need it. The control unit is simply plugged into the holder and can be turned in every direction, raised and lowered. Thanks to an additional articulation at the stand PT-ST 1301 it is possible to set different immersion angles of the dispersing aggregate into the processing vessel which is improving turbulences.

The stand is also equipped with a holder for dispersing aggregates and tools for a proper arrangement of your POLYTRON® system.

Power and Supply unit

The Power and Supply unit is controlled by microprocessor (µP) and supplies the Drive and Control unit with 24V safety current. Optionally it contains also the RS232 interface for the Intelligent Cable (Order code: 11020040) or for a direct PC-Connection.

Accessories with Know-How

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 2 ltrs.

- Order Codes (a choice)**
GS 15 for 25 ml
 → 11050010
GS 25 for 90 ml
 → 11050011
GS 40 for 300 ml
 → 11050012



Order Codes for basic units

- PT 1300 D incl.**
- Drive and Control Unit
 - Power and Supply Unit (w/o / with RS232)
- 230V Europe 11010030 / 11010033
 → 230V CH 11010031 / 11010034
 → 115V 11010032 / 11010035

Other accessories, dispersing aggregates, drive systems, homogenizing vessels on request

