



LABORATORY LINE POLYTRON® PT 6100 D

Stand-disperser (High-End Line), powerful, flexibile-use disperser

POLYTRON® PT 6100 D

Efficient and powerful disperser.

This instrument meets the highest standards of reproducibility and scaling up and the reserve capacities of this motor enable the handling of larger quantities without any decline in quality. The fully digitized control and regulation system is very easy to operate. The illuminated LCD displays all required parameters which can be adjusted if necessary, with the membrane keypad.

THE EXPERT FOR YOUR LABORATORY

Since more than 60 years we are perfecting the rotor / stator technology, working in close cooperation with users and universities. When using our technology, your test samples will be dispersed into homogeneous, chemical systems. Depending on the type of samples you will get homogeneous emulsions, dispersions or suspensions. This is the best foundation for all subsequent analyses or formulations.

ERGONOMICS

- Easy operation with an on-off switch and membrane keypad
- Digital speed control for long equipment life
- Protection against overheating, overload and blocking
- Speed stability even with changes in viscosity
- Easy to adjust motor height (depending on the stand)
- Aggregates quickly switched with Click & Go coupling
- Easy aggregate clean-up with EasyClean Design

RESULTS ARE CONVINCING

- Smallest sizes of particles / droplets because precise analysis require homogeneous samples
- Efficient sample preparation because fast dispersion saves time
- Standard or custom-made aggregates perfected for and in cooperation with the users
- Cleaning and disassembly: EasyClean Design makes it very simple
- Quick coupling of the aggregates by using Click & Go
- Best materials available because without them, we could not call it Swiss Made
- Durability is a Swiss virtue

SCALE-UP

You can use test results to scale-up to our pilot plant and industrial POLYTRON[®] machines. The volume range for on batch units is seamlessly available up to 10000 liters.



LABORATORY



LABORATORY & PILOT PLANT



PRODUCTION









TECHNICAL INFORMATION

Processing volume (water)	0.1 to 30 000 ml
Tip speed	Up to max. 32 m/s
Applicable aggregates	ø 5 mm to 65 mm
Speed range	500 to 26 500 rpm
Drive coupling	Aggregates with F coupling
Noise level (drive without aggregate)	82 dB(A) at 26 500 rpm
Motor	Universal with carbon brushes
Drive power	1700W
Connection voltage	110 - 230 V ± 10%, 50Hz/60Hz
Relative humidity (max.)	80% during storage 80% during operation
Operating temperature	0 - 40 °C
PC interfaces	RS-232 (D SUB 9) USB socket B
Protection class acc. to DIN	IP 20
Dimensions (LxWxH)	Drive: 235x164x313 mm
Weight	Drive: 7.4kg
EMC standards	IEC/EN 61000-6-2/EN 61000-6-3
Safety standard	IEC/EN 61010-2-51



USERS / APPLICATION RANGES

- General homogenizer applications
- Dispersions, suspensions and emulsions
- Dispersing of resins and pigments
- Dispersion of plant, animal and human tissue samples in various liquids and volumes
- Dissolving solids even at higher viscosities
- Formulation of lotions, creams and foodstuffs
- Extraction of active pharmaceutical ingredients (API) in pills and tablets
- Preparation of samples for quality assurance / control

This list provides a small selection of possible applications.

Kinematic dispersion.

Using the rotor/stator system.

Who is the inventor of it?

The roots of today's Kinematica began in the former chemical/physical research institute of Prof. P. Willems in Lucerne, Switzerland, the inventor of the modern rotor/stator dispersion technology.

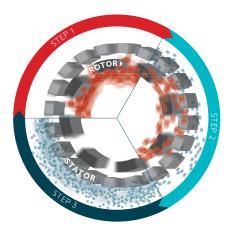
THE PRINCIPLE:

The spinning rotor generates a vacuum. The sample is drawn in and discharged to the outside through the stator's slots. Between the rotor/stator (shear gap), the product is subject to high deceleration-tangential and radial acceleration forces. The individual particles/droplets are torn apart and thus reduced in size; they are reduced to several micrometers in size through additional cutting and crashing effects.

THE RESULT:

Microscopic dispersions, emulsions, suspensions, and foams are generated. Droplets, particles and gas bubbles are reduced to several micrometers or smaller. Small and large substances are dispersed more economically, faster and better than with any other system.

Your samples are efficiently **«POLYTRONIZED».**





AGGREGATE TECHNOLOGY - UNRIVALED!

The high efficiency and the uniqueness of our POLYTRON[®] dispersing aggregate can only be achieved through superior manufacturing precision and the sophisticated Kinematica design method. This is 100 % Swiss Made.

STANDARD AGGREGATES (EC DESIGN, WITH TWO OR MORE SPROCKETS)

This is all you need for popular applications in the preparation of samples and formulation development. The cutting teeth embedded in the head of the tool optimize the pre-crushing of the sample. An enclosed ring design provides optimum protection for those teeth and prevents them from bending.

SPECIAL AGGREGATES (W, M, B, DS, Z DESIGN)

Specializations in the chemical, pharmaceutical, cosmetic and food industry, as well as the life sciences, makes new designs inevitable. These aggregates are based on state-ofthe-art technology and only available from Kinematica. The highly specialized tool is subject to further development that involves close cooperation with our customers and universities. Thus, it is continuously perfected for specific applications.

MATERIALS

Whether you need a tool with standard or special geometry, all aggregates are manufactured from high-alloy stainless steel 316L, electrolytically polished and made in Switzerland.

BEARINGS

Depending on the diameter, our aggregates are made with highquality PTFE/VALFLON, special carbide or bronze/carbide bearings. They have excellent mechanical properties and chemical resistance and have FDA approvals. Super highspeed ball bearings are used in the couplings to provide stability speeds up to 30000 rpm.

CLEANING AND DISASSEMBLY

EasyClean: Our technology ensures the simplest removal and fast cleaning, either by hand, dishwasher or autoclave. Disassembling the precisely fitting components is simple and fast.

LOCKING SYSTEM

All our POLYTRON® aggregates are fitted with a high-precision quick-release system: The Click & Go.

Comfort at the highest level.

The electric plate stand.

Modern laboratories want equipment that is easy to handle. This rugged electric tripod offers a variety of benefits.

REQUIREMENTS

The processing of large sample volumes or viscous products requires larger, higher torque drive units and larger aggregates which are quite heavy. These factors were the reasons for making this stand available to our customers.

Now, what has long been a part of the standard equipment in the pilot plants, is now available for laboratory use.

PRINCIPLE

- Powerful motor mounted onto the telescopic lifting arm
- Durable, robust construction
- High stability due to the massive aluminum base plate

RESULT

- Easy height adjustment by means of two buttons
- Anti-slip mat included
- Available with optional vessel holder





OTHER STANDS AND ORDER NUMBERS

Sales No.	Product	Description
11040025	ST-F 10/600	H-foot stand made of anodized aluminum and the height adjustable, swivel- ing PTFE-coated work table with vessel holder. Weight: 5.5kg
11040052	ST-P 21/700	Stainless steel plate stand with two support rods (height 700 mm), height adjustable drive unit holder and safety positioning bar. Weight: 8kg

Electric plate stand

Electric plate stand with lifting telescopic bar for more ease of use. Incl. operating device and anti-slipping pad for vessel. The electronics are designed for ambient temperatures of $+5^{\circ}$ C to $+40^{\circ}$ C and were tested per EN 60335-1 and UL 962. Weight: 11kg

11040033	ST-P 14/590+500, 230 V	With EU-power cable
11040036	ST-P 14/590+500, 230 V	With CH-power cable
11040037	ST-P 14/590+500, 230 V	With UK-power cable
11040034	ST-P 14/590+500, 100 - 120 V	With power cable



STAND ACCESSORIES

Sales No.	Product	Description
11036005	Vessel holder	For fixing any dispersing vessels, with guide for ST-P 14/590 + 500

Dispersing vessels.

For best results.

Choosing the right dispersing aggregate is crucial for good results. The right vessel also contibutes to achive the desired result.

THE PROBLEM

For normal cylindrical beakers, the flow creates a vortex. The mixing and dispersing efficiency decreases considerably since the product is no longer being optimally processed through the dispersing generator head. This lengthens processing times, requiring more energy input. Depending on the shape of the vortex, this may also lead to additional air being introduced.

THE SOLUTION

Our specially designed GS jars have a cloverleaf-like shape. This effectively interrupts the flow in the radial direction and generates additional counteracting forces. These high turbulences maximize the mixing and dispersion efficiency, thus minimizing processing time and requiring less energy.

THE SELECTION

Our GS-glasses are available in chemical- and temperature-resistant borosilicate glass or in stainless steel, with working volumes from a few milliliters to several liters, with or without lid and with or without sealed feedthrough.



GS vessel principle (viewed from top)





CLOVERLEAF-LIKE SHAPED BOROSILICATE VESSEL







Sales No.	Product	Ø/H (mm)	Process volume	Thickness	Thread	Description
Open on top						
11051010	GS 15	30/100	35 ml	2.8 mm	-	-
11051011	GS 25	54/150	150 ml	3.5mm	-	-
11051012	GS 40	80/200	500 ml	3.5mm	-	-
11051013	GS 50	90/250	1000 ml	3.5mm	-	-
11051014	GS 60	100/300	1300 ml	3.5mm	-	-
With screw ca	ap and sealing					
11051020	GS 15K	30/100	35 ml	2.8mm	GL25	-
11051021	GS 25K	54/150	150 ml	3.5mm	GL45	-
11051022	GS 40K	80/200	500 ml	3.5mm	GL45	-
11051023	GS 50K	90/250	1000 ml	3.5mm	GLS80	-
11051024	GS 60K	100/300	1300 ml	3.5mm	GLS80	-
Incl. cover wit	th sealing and hole					
11051030	GS 15KL08	30/100	35 ml	2.8 mm	GL25	8mm hole
11051031	GS 15KL12	30/100	35 ml	2.8 mm	GL25	12 mm hole
11051040	GS 25KL12	54/150	150 ml	3.5mm	GL45	12 mm hole
11051041	GS 25KL20	54/150	150 ml	3.5mm	GL45	20 mm hole
11051050	GS 40KL20	80/200	500 ml	3.5mm	GL45	20 mm hole
11051051	GS 40KL26	80/200	500 ml	3.5mm	GL45	26 mm hole
11051060	GS 50KL20	90/250	1000 ml	3.5mm	GLS80	20 mm hole
11051061	GS 50KL26	90/250	1000 ml	3.5mm	GLS80	26 mm hole
11051070	GS 60KL20	100/300	1300 ml	3.5mm	GLS80	20 mm hole
11051071	GS 60KL26	100/300	1300 ml	3.5mm	GLS80	26 mm hole

CYLINDRICAL-SHAPED STAINLESS STEEL VESSEL

Sales No.	Product	Ø/H (mm)	Process volume	Thickness	Weight	Description
With hook g	rips					
11052001	GS100-1	105/150	1000 ml	1.0 mm	412 g	-
11052002	GS100-2	135/170	2000 ml	1.2 mm	580 g	-
11052003	GS100-3	165/180	3000 ml	1.2 mm	725g	-
11052004	GS100-4	185/185	4000 ml	1.2 mm	872 g	-
11052005	GS100-5	185/225	5000 ml	1.2 mm	998g	-
11052006	GS100-6	185/265	6000 ml	2.0 mm	1122g	-
11052008	GS100-8	210/270	8000 ml	2.0 mm	1350 g	-
11052010	GS100-10	230/280	10 000 ml	2.0 mm	1550 g	-
With hook g	rips and a cover wit	h a drop hand	lle			
11052101	GS100-1.C	105/150	1000 ml	1.0 mm	495g	-
11052102	GS100-2.C	135/170	2000 ml	1.2 mm	720 g	-
11052103	GS100-3.C	165/180	3000 ml	1.2 mm	905g	-
11052104	GS100-4.C	185/185	4000 ml	1.2 mm	1099 g	-
11052105	GS100-5.C	185/225	5000 ml	1.2 mm	1225g	-
11052106	GS100-6.C	185/265	6000 ml	2.0 mm	1349 g	-
11052108	GS100-8.C	210/270	8000 ml	2.0 mm	1671 g	-
11052110	GS100-10.C	230/280	10 000 ml	2.0 mm	1922g	-
With hook g	rips, equipped with	a baffles part	inset and a co	over with a dro	op handle	
11052201	GS100-1.C.B.	105/150	1000 ml	1.0 mm	-	-
11052202	GS100-2.C.B.	135/170	2000 ml	1.2 mm	-	-
11052203	GS100-3.C.B.	165/180	3000 ml	1.2 mm	-	-
11052204	GS100-4.C.B.	185/185	4000 ml	1.2 mm	-	-
11052205	GS100-5.C.B.	185/225	5000 ml	1.2 mm	-	-
11052206	GS100-6.C.B.	185/265	6000 ml	2.0 mm	-	-
11052208	GS100-8.C.B.	210/270	8000 ml	2.0 mm	-	-
11052210	GS100-10.C.B.	230/280	10 000 ml	2.0 mm	-	-







Dispersing aggregates for PT 6100 D.

Your applications, our solution.

Kinematica aggregates solve all problems you are faced with every day in the laboratory. Using our Click & Go quick release makes the changing of aggregates very easy.



EC «STANDARD DISPERSING AGGREGATE»

Design The universal geometry uses two rows of teeth, is suitable for a large spectrum of laboratory applications and it is reliable and efficient.

Selection and applications

- All standard dispersing tasks
- Grinding of animal and human tissue samples in a variety of fluids and volumes
- Sample preparation for the extraction and dissolution of organic materials
- Sample preparation for medical diagnostic procedures as well as DNA analysis
- Extractions of systems/substances from vegetable-derived samples
- Disruption of animal and human cells
- Deagglomeration of united cell structures
- Intensive mixing



M «OUTSIDE CUTTING BLADES»

Design Outside blades pre-cut samples that are larger than the rotors diameter. Subsequently, they can be dispersed inside the generator.

Selection and applications

- Dispersing of large samples made simple
- All standard dispersing applications similar to EC aggregate



Z «Z-DESIGN» Design

Breaking up of hard samples, with integrated V-notch technology. Additional, integrated holes for cleaning.

Selection and applications

- Hard and brittle material



DEC «DISSOLVER» Design

A processing head with teeth. The product is radially accelerated.

Selection and applications

- Fast mixing and homogenizing of solids in liquid
- Processing of highly viscous products

Product	ø/length mm	Volume ml	max. Tip speed m/s
OARD DISPERSING AGGRE	GATE»		
PT-DA 05/2EC-F078	5/78	0.1 – 5	5
PT-DA 07/2EC-F101	7/101	0.3 - 10	8
PT-DA 12/2EC-F154	12/154	3 - 250	14
PT-DA 20/2EC-F193	20/193	20 - 2000	22
PT-DA 30/2EC-F250	30/250	100 - 4000	30
PT-DA 30/4EC-F250	30/250	100 - 4000	30
PT-DA 36/2EC-F250	36/250	200 - 4500	34
PT-DA 36/4EC-F250	36/250	200 - 4500	34
PT-DA 40/2EC-F250	40/250	200 - 5000	36
PT-DA 45/2EC-F250	45/250	200 - 6000	40
PT-DA 45/6EC-F250	45/250	200 - 6000	40
PT-DA 50/2EC-F250	50/250	300 - 10000	44
PT-DA 50/4EC-F250	50/250	300 - 10000	44
PT-DA 60/2EC-F250	60/250	300 - 30000	50
N»			
PT-DA 30/2ZEC-F250	30/250	100 - 4000	29
	ARD DISPERSING AGGRE PT-DA 05/2EC-F078 PT-DA 07/2EC-F101 PT-DA 12/2EC-F154 PT-DA 30/2EC-F193 PT-DA 30/2EC-F250 PT-DA 30/4EC-F250 PT-DA 36/2EC-F250 PT-DA 36/2EC-F250 PT-DA 36/2EC-F250 PT-DA 40/2EC-F250 PT-DA 45/2EC-F250 PT-DA 50/2EC-F250 PT-DA 50/2EC-F250 PT-DA 60/2EC-F250	ARD DISPERSING AGGREGATE» PT-DA 05/2EC-F078 5/78 PT-DA 07/2EC-F101 7/101 PT-DA 12/2EC-F154 12/154 PT-DA 30/2EC-F193 20/193 PT-DA 30/2EC-F250 30/250 PT-DA 30/4EC-F250 30/250 PT-DA 36/2EC-F250 36/250 PT-DA 36/2EC-F250 36/250 PT-DA 36/2EC-F250 40/250 PT-DA 40/2EC-F250 45/250 PT-DA 50/2EC-F250 50/250 PT-DA 50/2EC-F250 50/250 PT-DA 50/2EC-F250 50/250 PT-DA 60/2EC-F250 60/250	mm mm PT-DA 05/2EC-F078 5/78 0.1 - 5 PT-DA 05/2EC-F101 7/101 0.3 - 10 PT-DA 07/2EC-F101 7/101 0.3 - 10 PT-DA 12/2EC-F154 12/154 3 - 250 PT-DA 30/2EC-F250 30/250 100 - 4000 PT-DA 30/2EC-F250 30/250 100 - 4000 PT-DA 30/4EC-F250 36/250 200 - 4500 PT-DA 36/4EC-F250 36/250 200 - 4500 PT-DA 36/4EC-F250 40/250 200 - 6000 PT-DA 40/2EC-F250 45/250 200 - 6000 PT-DA 45/2EC-F250 45/250 200 - 6000 PT-DA 50/2EC-F250 50/250 300 - 10000 PT-DA 50/2EC-F250 50/250 300 - 30000 PT-DA 60/2EC-F250 60/250 300 - 30000

Sales No.	ales No. Product		Volume ml	max. Tip speed m/s	
	DE CUTTING BLADES»				
11030300	PT-DA 12/2MEC-F154	12/154	3 - 250	14	
11030303	PT-DA 20/2MEC-F193	20/193	20 - 2000	22	
11030307	PT-DA 30/2MEC-F250	30/250	100 - 4000	30	
11030308 PT-DA 30/2MG-F273*		30/273	100 - 4000	30	
11030315	PT-DA 36/2MEC-F250	36/250	200 - 4500	34	
11030322	PT-DA 40/2MEC-F250	40/250	200 - 5000	36	
11030323	30323 PT-DA 40/2MG-F250*		200 - 5000	36	
11030332	PT-DA 50/2MEC-F250	50/250	300 - 10000	44	
11030333	PT-DA 50/2MG-F250*	50/250	300 - 10000	44	
11030340	PT-DA 60/2MEC-F250	60/250	300 - 30000	50	
11030341	PT-DA 60/2MG-F250*	60/250	300 - 30000	50	
	*M-design aggregate in gas-tight model				

DEC «DISSOLVER»							
11030344	PT-DA 30/DEC-F250	30/250	500 - 10000	30			
11030337	PT-DA 53/DEC-F250	53/250	800 - 30000	47			
11030343	PT-DA 65/DEC-F250	65/250	1000 - 40000	50			

- Sweet corn and grain
- Breaking, opening and dispersing of pills
- Breaking, hard grains







Step 1

Step 2

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Step 3



W «W-DESIGN» Design

The W-design prevents fibrous, stringy or solid samples from clogging the rotor/stator.

Selection and applications

- Dispersing fibrous, stringy or solid samples (e.g., pieces of meat)
- All standard dispersing applications similar to EC aggregate



G «GAS TIGHT» Design

Integrated mechanical seals.

Selection and applications

- Under pressure or vacuum
- Preventing air from being added to emulsions
- Corrosive acid mixtures



TIN «TITANIUM NITRATED» – UPGRADE Design

Rotor and/or stator with up to three rows of teeth with a titanium nitrated (TiN) coating.

Selection and applications

- All dispersing applications with abrasive samples



B «BIOTRONA® HIGH-TURBULENCE MIXER» Design

High-turbulence mixing head with the least possible shear forces and energy inputs.

Selection and applications

- Quick removal and suspension of solid particles; also suitable for high viscosity applications

Sales No.	Product	ø/length mm	Volume ml	max. Tip speed m/s	
W «W-DES	IGN»				
11030301	PT-DA 12/2WEC-F154	12/154	3 - 250	14	
11030304	PT-DA 20/2WEC-F193	20/193	20 - 2000	22	
11030294	PT-DA 20/2WG-F210*	20/210	20 - 2000	30	
11030309	PT-DA 30/2WEC-F250	30/250	100 - 4000	30	
11030345	PT-DA 30/2WMEC-F250**	30/250	100 - 4000	30	
11030319	PT-DA 36/2WEC-F250	36/250	200 - 4500	34	
11030346	PT-DA 36/2WMEC-F250**	36/250	100 - 4500	34	
11030324	PT-DA 40/2WEC-F250	40/250	200 - 5000	36	
11030328	PT-DA 45/2WEC-F250	45/250	200 - 6000	40	
11030334	PT-DA 50/2WEC-F250	50/250	300 - 10000	44	
11030342	PT-DA 60/2WEC-F250	60/250	300 - 30000	50	
	* W-design aggregate in gas-tight model ** W-design aggregate with knives				
	IUM NITRATED» - UPGRA	DE			
11035050	TiN rotor for the selected dispersing aggregate ø 12 - 36 mm				
11035150	TiN stator for the selected dispersing aggregate ø12-36mm				

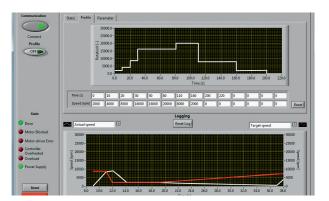
Sales No.	Product	ø/length mm	Volume ml	max. Tip speed m/s			
G «GAS TIG	G «GAS TIGHT»						
11030295	PT-DA 20/2G-F210	20/210	20 - 2000	22			
11030306	PT-DA 30/2G-F273	30/273	100 - 4000	30			
11030312	PT-DA 30/4G-F273	30/273	100 - 4000	30			
11030316	PT-DA 36/2G-F273	36/273	200 - 4500	34			
11030318	PT-DA 36/4G-F273	36/273	200 - 4500	34			
11030321	PT-DA 40/2G-F273	40/273	200 - 5000	36			
11030327	PT-DA 45/2G-F273	45/273	200 - 6000	40			
11030331	PT-DA 50/2G-F273	50/273	300 - 10000	44			
11030336	PT-DA 50/6G-F273	50/273	300 - 10000	44			
11030339	PT-DA 60/2G-F273	60/273	300 - 30000	50			
B «BIOTRO	NA® HIGH-TURBULENCE	MIXER»					
11030355	PT-DA 07/BEC-F101	07/101	10 - 100	7			
11030354	PT-DA 12/BEC-F154	12/154	50 - 500	12			
11030296	PT-DA 20/BEC-F193	20/193	20 - 2000	21			
11030314	PT-DA 36/BEC-F250	36/250	500 - 10000	34			
11030326	PT-DA 45/BEC-F250	45/250	300 - 30000	40			

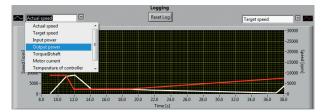
PC control software.

«User Interface» for the PT 6100 D.

The free-of-charge software «User Interface PT 6100 D» was developed for the operation and control of the laboratory dispersing system POLYTRON® PT 6100 D. A USB or RS232 interface provides the communication to the computer. The data transmission protocol complies with the Modbus specifications.







OPERATING MODE

- STANDARD MODE: Operation by manual control
- TIMER MODE: Automatic shutdown by recording speed and time
- AUTO MODE: Complete control through the included Kinematica software

KINEMATICA SOFTWARE

- Set the speed via PC
- Store speed / time profile to reproduce formulas or processes
- Adjustable temperature limits as stop criterion, for example, to prevent product overheating (with Pt100 temperature probe)
- Graphical representation of parameters with time diagram
- Continuous recording of all parameters listed above in MS Excel format
- PC software and cable included

ADDITIONAL FEATURES

- Memory function: remembers the last speed setting and the time when the device shut off
- Displays the product temperature by means of the optional Pt100 temperature probe

PARAMETERS RETRIEVABLE VIA LCD DISPLAY

- Actual speed [AS, rpm]
- Target speed [TS, rpm]
- Power in [Pin, W]
- Power out [Pout W]
- Moment of force [M Ncm]
- Motor current [I, A]
- Supply voltage [U, V]
- Product temperature (with optional Pt100 temperature probe) [TP, °C]
- Internal temperature controller [Tc, °C]
- Operating hours meter [Oh, h]
- Firmware

SYSTEM REQUIREMENTS:

Operating system: Windows® XP/7/8/10 Required interfaces: 1 x USB or 1 x RS-232



Order information and accessories.

Authorized extension of your system.

Depending on your specific requirements, it is possible to expand the PT 6100 D drive with our functional accessories. Our expert personnel will be happy to assist you and answer all the questions you might have.

DRIVES

Sales No.	Product	Description
Drive Unit		
11010110	PT 6100 D, 230 V	EU-power cable, PC software, RS-232/USB connection cable
11010111	PT 6100 D, 230 V	CH-power cable, PC software, RS-232/USB connection cable
11010112	PT 6100 D, 230 V	UK-power cable, PC software, RS-232/USB connection cable
11010113	PT 6100 D, 100 – 120 V	Power cable, PC software, RS-232/USB connection cable
Drive Unit is	sold with stand and accessories	
11090090	PT 6100 D, 230 V, Package	Drive Unit. EU-Power cable, stand ST-P 14/590+500, PC software, RS-232/USB connection cable
11090091	PT 6100 D, 230 V, Package	Drive Unit. CH-Power cable, stand ST-P 14/590+500, PC software, RS- 232/USB connection cable
11090092	PT 6100 D, 230 V, Package	Drive Unit. UK-Power cable, stand ST-P 14/590+500, PC software, RS-232/USB connection cable
11090093	PT 6100 D, 100–120 V, Package	Drive Unit. UK-Power cable, stand ST-P 14/590+500, PC software, RS-232/USB connection cable



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ADAPTER

Sales No.	Product	Description
11035001	Adapter PT-DA/PTA	This adapter connects older A-coupling dispersing aggregates such as
	(F / A)	PT-K/PT-G with F-coupling drive units.

TEMPERATURE PROBE

Sales No.	Product	Description
11020050	PT 100 (for POLYTRON [®] PT 3100 D and PT 6100 D, for measuring the product temperature. The probe can be directly connected to the rear panel of the device).	 Temperature range 0°C to 120°C Temperature displayed on LCD display If the temperature probe is used with the PC software, the temperature is displayed and you can set temperature limits and have the software record the current temperatures.



Our mission. Your solution.

Homogenizing perfected: for every industry.

Kinematica's broad portfolio of solutions can address almost every dispersing application for the pharmaceutical, cosmetic, chemical, food and life science industry. Innovative powder-induction systems, solutions for completely sterile environments, or fully-compliant ATEX architecture are just some examples of the broad portfolio that Kinematica can offer with true scalability from pilot-plant to large plant configurations.

Our state-of-the-art technology, in addition to a professional consulting and engineering suite of services, can address a variety of processes such as blending / mixing / stirring, emulsifying, deagglomerating, foaming, crushing and homogenizing with particle size reduction from a few micrometers down to nanometers in size: the proprietary design and innovative geometry of our aggregates / generators can downsize and provide perfect statistical particle distribution for the finest emulsions / suspensions and foam dispersions.



LIFE SCIENCE



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