IKA

designed for scientists

IKA MultiDrive control

/// Data Sheet

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Regardless of whether samples are hard, soft or fibrous – the IKA MultiDrive crusher can perform a wide range of crushing tasks involving coarse and fine crushing, thanks to the variety of vessels available. MultiDrive control mixes, grinds and is also fitted with a dispersion vessel and a disposable tube. There is a USB interface available for easy actuation and documentation respectively.

High performance

Excellent crushing performance is guaranteed by a combination of variable rotational speeds, ranging from 3000 rpm to 20 000 rpm, and a 1000 Watt output.

Interval operation
The option of interval programming is simple to activate at the press of a button. Interval operation is an asset during the coarse crushing of hard samples or for extra thorough blending.

Integrated cooling
A cooling system is integrated in the milling cup, which allows indirect heat dissipation. Thus, coolant and sample remain separate.

TFT-display
A clear TFT-display guarantees user-friendly operation.

Temperature measurement
MultiDrive control offers temperature measurement and vessel recognition using RFID. A temperature limit can be set for temperature-sensitive materials, or for specific planned reactions to protect against overheating.

Weighing function
The weighing function is also integrated into the user-friendly workflow of the IKA MultiDrive control. Weighing is performed before crushing using the same mixing cup, so that no transfer of contents is required.

Variety of vessels (accessory)
MultiDrive provides the right vessel for each grinding task.
Vessels don't belong to the scope of delivery.

Technical Data

Process type	batch
Operating principle	cutting/impact
Motor rating input [W]	1000
Motor rating output [W]	800
Speed range [rpm]	3000 - 20000
Speed deviation [±%]	5
Circumferential speed max. [m/s]	80
Useable volume max. [ml]	2000
Feed hardness max. [Mohs]	5
Feed grain size max. [mm]	7
Material beater/cutter	stainless steel 1.4034
Material milling chamber	stainless steel 1.4301
Material (other)	PTFE
Power-ON time [min]	5
Power-OFF time [min]	10
Milling chamber, can be cooled with water	yes
Mill feed can be cooled in milling chamber with dry ice	yes
Dimensions (W x H x D) [mm]	300 x 450 x 250
Weight [kg]	10
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
USB interface	yes
Bluetooth interface	yes
Voltage [V]	220 - 240 / 100 - 120
Frequency [Hz]	50/60
Power input [W]	1000