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## IKA MultiDrive control

/// Data Sheet

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,



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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/blending/dispersing
Motor rating input [W]	1000
Motor rating output [W]	800
Speed range [rpm]	3000 - 20000
Speed deviation [%]	±5
Power-ON time [min]	5
Power-OFF time [min]	10
Motor principle	Brushless DC
Display	TFT
RFID reader/writer unit	yes
Temperature display	yes
Temperature measurement resolution [K]	0.1
Accuracy of temperature measurement [K]	±1
Temperature limit min. [°C]	-50
Temperature limit max. [°C]	120
Monitoring maintain time	yes
Weighing function	yes
Weighing range [g]	5 - 4000
Weighing resolution [g]	1
Load capacity weighing function max. [kg]	4
Weighing accuracy	±(0.3%+2) g
Vessels detection	yes
Ramp programming	yes
Dimensions (W x H x D) [mm]	300 x 350 x 250
Weight [kg]	8.5
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 31
USB interface	yes
Bluetooth interface	yes
Voltage [V]	100 - 120
Frequency [Hz]	50/60
Power input [W]	1000