



designed for scientists



## MultiDrive control MT Package

/// Технический паспорт

Crushing without cross-contamination - this is possible with the MultiDrive control package including autoclavable disposable tubes MT 150 and the required TC 1 protective housing for dry samples.

MT 150 is a disposable tube with a typical stainless steel beater. The plastic milling tube can be autoclaved. This effectively prevents cross-contamination even if it is used multiple times. An integrated RFID chip simultaneously stores and limits the lifespan of the milling tube. 5 spare seals are included in the scope of delivery. By replacing the seal, the service life of the grinding chamber can be extended. The disposable tube can only be operated with the TC 1 protective housing which is also included in the scope of delivery.



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MultiDrive universal crusher can perform a wide range of crushing tasks involving coarse and fine crushing, thanks to the variety of vessels available. 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.

## Технические данные

Тип процесса	Работа с пробами
Рабочий принцип	cutting/impact/blending/dispersing
Потребляемая мощность привода [W]	1000
Производимая мощность привода [W]	800
Диапазон вращающего момента [rpm]	3000 - 20000
Отклонение скорости [±%]	5
Рабочий цикл вкл. [min]	5
Рабочий цикл выкл. [min]	10
Тип привода	Бесщеточный, пост. тока
Дисплей	TFT
RFID reader/writer unit	да
Индикатор температуры	да
Точность фактически отображаемой температуры [K]	0.1
Погрешность измерения [K]	± 1
Temperature limit min. [°C]	-50
Temperature limit max. [°C]	120
Monitoring maintain time	да
Функция взвешивания	да
Диапазон взвешивания [g]	5 - 4000
Дискретность взвешивания [g]	1
Функция взвешивания допустимой нагрузки, не более [kg]	4
Погрешность взвешивания	± (0,3% + 2) г
Vessels detection	да
Программирование линейного изменения	да
Размеры [mm]	300 x 350 x 250
Вес [kg]	8.5
Допустимая температура окружающей среды [°C]	5 - 40
Допустимая относительная влажность [%]	80
Класс защиты согласно DIN EN 60529	IP 31
Разъем USB	да
Разъем Bluetooth	да
Напряжение [V]	220 - 240 / 100 - 120 / 100 - 115
Частота [Hz]	50/60
Потребляемая мощность [W]	1000