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## Tube Mill control Agriculture Solution

/// Data Sheet

Grinding of seeds and grains without risk of cross-contamination:

The agricultural industry and government health and food regulatory agencies are very interested in the fast and accurate analysis of seeds, grains and food. Laboratories in these industries face the challenge of efficiently milling seeds and grains without the risk of cross-contamination during the milling process or the transfer of sample material to storage containers. In addition, it is difficult to reliably grind very small quantities of samples with most laboratory bench mills.



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The Tube Mill control Agriculture Solution package, consisting of the Tube Mill control batch mill and patented disposable plastic chambers with a volume of 40 ml, was specially put together by the IKA product experts to address these challenges.

Grinding, storage and transport of the samples takes place in a closed, disposable grinding chamber which eliminates the risk of cross-contamination between different batches. The time-consuming cleaning of the mill and the containers after each cycle is also eliminated. The MT grinding chambers are designed to process even the smallest sample quantities from 1 gram (e. g. a single tablet).

The Tube Mill control is a batch mill for grinding hard, brittle and dry materials up to Mohs hardness 5. With its disposable and reusable grinding chambers with a volume of 40 ml, it is versatile and can be used for a wide range of requirements.

#### Scope of delivery

- Tube Mill control
- MT 40.10 Disposable grinding chamber (10 pcs.)
- MMT 40.1 Multi-use milling tube



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## Technical Data

Motor rating input [W]	100
Motor rating output [W]	80
Speed range [rpm]	5000 - 25000
Process type	batch
Circumferential speed max. [m/s]	65
Useable volume max. [ml]	40
Feed hardness max. [Mohs]	5
Feed grain size max. [mm]	10
Power-ON time [min]	3
Mill feed can be cooled in milling chamber with dry ice	yes
Operating principle	cutting/impact
Speed deviation [%]	±2
Dimensions (W x H x D) [mm]	180 x 170 x 300
Weight [kg]	2.7
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 30
USB interface	USB-B
Voltage [V]	220 - 240
Frequency [Hz]	50/60
Power input [W]	100