

MMS – Molten Metal Splashes

ISO 9185



Crucibles

Electrical tilt mechanism, electronically controlled
High-performance glass fiber ratio pyrometer for monitoring the temperature of the melting material
Calibration device DIN EN ISO 9185

Sand tray

Specimen stencil

Foot switch

Software

- ◆ MS Windows 10indktionsoefen
- ◆ MCC DAQ
- ◆ DIN EN ISO 9185

Operating manual

Protective equipment, fireproof

- ◆ hand protection (mittens, gloves)
- ◆ protective mask
- ◆ apron
- ◆ gaiters

DIMENSIONS

Width x depth x height: approx. 1270 x 875 x1550 mm*

Weight: approx. 260 kg*

SUPPLIES

Electric current 3 ~ 400 VAC 50/60 Hz, 6 kVA; water

TO BE PROVIDED BY THE CUSTOMER

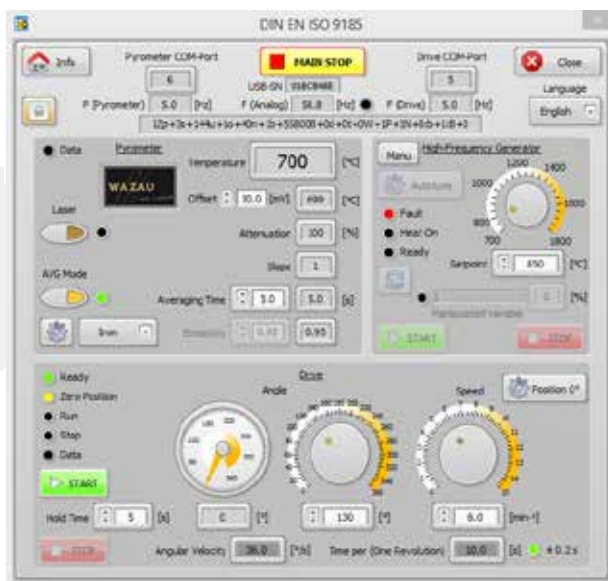
Water drain, sink sufficient

Exhaust system (mandatory for test with cryolite)

PVC foil

Balance, measuring range up to 1000 g, measuring accuracy ± 1 g

Muffle furnace (PVC foils calibration)



* Our products are constantly being further developed. For this reason, the actual dimensions may vary. © 08/2021

SCOPE

Determination of the material resistance to liquid metal splashes on protective clothing.

PRINCIPLE

The materials test involves pouring defined amounts of molten metal onto the specimen, which is held at an angle to the horizontal on a mounting frame. Damage is assessed by placing a PVC foil directly behind and in contact with the specimen and noting the changes in the PVC foil after casting. Depending on the result, the test is repeated using a larger or smaller amount of metal until the minimum amount causing damage to the PVC film is determined.

The molten metal is melted in a crucible using a high frequency induction furnace. A high-performance glass fiber ratio pyrometer provides the reference variable for temperature control by determining the pouring temperature. The temperature of the melt is set and controlled from 700 to 1800 °C by a temperature controller.

The tilting speed and the tilting angle can be controlled and adjusted via a stepper motor.

SPECIAL FEATURES

- Integrated control computer with touchscreen
- High frequency induction furnace
- Enclosure
- Safety hinge switches

SCOPE OF DELIVERY

- Test bench with integrated PC and touchscreen
- Induction furnace, temperature range 700 -1800 °C
- Specimen holder
- Crucible tongs with coupling