

# MI-AFD ALTERNATING FIELD DEMAGNETISER

[www.mag-instruments.com](http://www.mag-instruments.com)

## Compact and easy to use AF demagnetiser with automated sample handler

Standalone device to demagnetise discrete samples in alternating magnetic fields up to 150 mT.

Automated handler for tumbling of one specimen or manual handler to discretely demagnetise up to three specimens simultaneously.

PC control software, custom holders or higher peak fields available on request.

Designed to be simple, robust and long-lasting...

**Triple-layer shielding**  
Prevent unwanted stray fields from entering or exiting the instrument



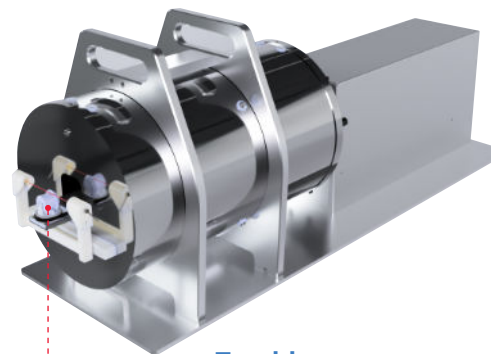
**Control knob**  
Start demagnetisation process and adjust field settings on the LCD display

**Control Electronics**  
Power amplifier and USB interface for PC connection

Note: Image is for reference only. The actual design and presence of external remote control may change.

## Key features

- Quick AF-demagnetisation**  
Demagnetisation times of 1 to 80 seconds guarantee an efficient demagnetisation laboratory routine.
- Demagnetises up to three specimens**  
Allows discrete, manual demagnetisation of up to three specimens or automated tumbling demagnetisation of one specimen (1"×22 mm cylinder or 22 mm cube).



**Tumbler**  
for automated tumbling demagnetisation of one specimen

- Shielded specimen cavity**  
Three shielding layers ensure the most minimal external interference during the experiments while also preventing an outside radiation of the field.
- Operable with or without a PC**  
The field settings - peak field and ramp field - can be adjusted with a knob on an intuitive LCD user interface or from a connected PC. Additional information about the instrument like current temperature of the coil and remaining operation time is continuously displayed on the LCD unit.
- Self-contained tabletop design**  
Manual version measuring just 55 cm × 40 cm × 48 cm and weighing just around 50 kg, the Mag-Instruments AF-Demagnetiser fits in every laboratory.

## Technical Specifications

Property	Value
AF peak field	0.1 – 150 mT (higher upon request)
Sample handling	Manual (2-3 specimen) or Tumbler (one specimen)
Sample size	1" × 22 mm cylinder, 22 mm cube
Operation frequency	100-300 Hz
Tumbling speed	0-120 RPM
Shielding layers	3
Demagnetisation time	1 – 80
Weight <sup>1</sup>	~ 50 kg
Dimensions (W×D×H) <sup>1</sup>	55×40×48 (shield with coil)

<sup>1</sup>Without tumbler

# MAG



## INSTRUMENTS



Based in Munich, Germany, Mag-Instruments was founded in 2014 by robotics engineer Dr. Przemyslaw Kryczka and a group of specialists in geophysics, mechatronics, and robotics to bring state-of-the-art technology into magnetic measurements.

We develop and manufacture innovative, scientific equipment. Our constantly growing product line includes state-of-the-art magnetometers, and instruments for generating magnetic fields such as Helmholtz coil setups, and (de-)magnetising equipment.

[www.mag-instruments.com](http://www.mag-instruments.com)

**Mag-Instruments UG**  
(haftungsbeschränkt)

Kistlerhofstr. 170  
81379 Munich Germany

[info@mag-instruments.com](mailto:info@mag-instruments.com)