

KE + DN

High-performance compact demagnetizer



- > Compact demagnetizer as a workstation device with a high field strength and a precisely controlled demagnetizing pulse
- > Especially suitable for manually demagnetizing complex individual parts, smaller bulk materials and hard metal
- > Magnetic field strengths of up to 120 kA/m deliver good results even in components that are hard to demagnetize.
- > Reduced stray fields as a result of the metallic coil housing
- > Easy setup and installation, power module operated from the 230VAC directly



Maurer Magnetic

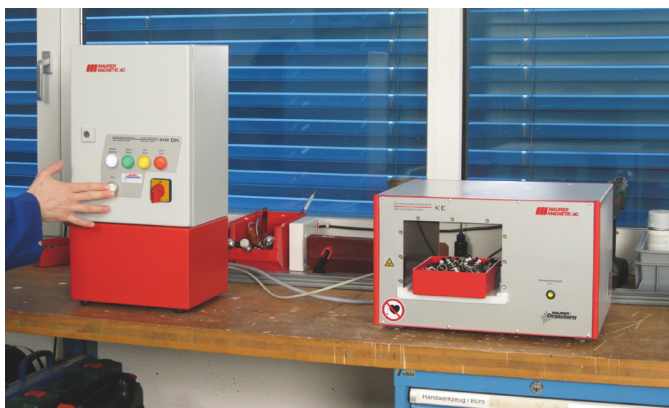
Magnetically pure

The demand for completely demagnetized parts requires powerful and productive demagnetizing devices in a compact size. Satisfy these requirements with a simple, automated demagnetizing process.

The compact demagnetizer offers maximum performance in a handy and easy-to-use work station device. The KE is suitable for the most demanding demagnetizing tasks in smaller batch sizes. The KE is designed as a table-top unit for manual operation.

Applications

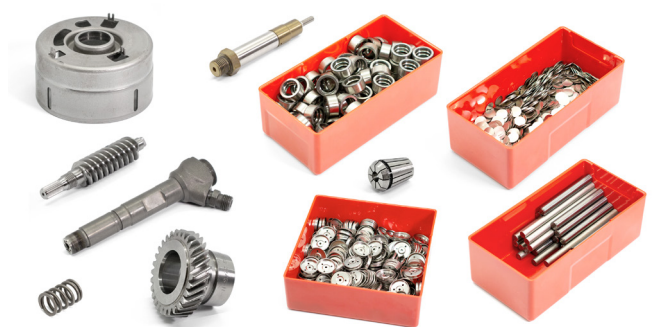
For versatile use



The pulse is triggered at a safe distance to the coil



The parts are demagnetized by the demagnetizing pulse within mere seconds



Increased productivity as a result of demagnetizing bulk material, transport containers with content or packaged parts

In 2001, Maurer Magnetic developed the Maurer Degaussing® demagnetizing process, for which a patent was applied for. With our many years of experience and the expertise we have acquired over time, our technology has been continuously enhanced, while our new relevant patents supplement it. Our in-house production also allows us to implement customer demands quickly and unimpeded, while ensuring our quality standards at the same time.

The compact demagnetizer was designed as a tabletop unit to demagnetize smaller, yet sophisticated components or assemblies.

The parts are demagnetized by placing them in the active opening, and then triggering the demagnetizing pulse. This process does not require the parts to be pulled out. Its intuitive operation allows any user to operate the device properly. The demagnetizing pulse is triggered at a safe distance to the coil. As a result, the operator is not improperly exposed to the field, which is often the case where traditional, continuously operated coils are used.

What demagnetizing with KE + DN means for you:

- > Prevents metallic shavings from sticking
- > Improving cleanliness in the washing processes
- > Small parts do not stick together
- > Sensitive components do not impact each other
- > Process-reliable fulfillment of customer's residual magnetism limits
- > Hard magnetic spots are demagnetized
- > Demagnetizing of hard metal

Range of parts

- > Smaller bulk quantities:
filled containers with an up to 50% degree of filling
- > Individual parts or smaller assemblies
- > Multiple pulsing allows even larger, elongated parts to be demagnetized

Cutting-edge technology

For best possible demagnetizing



This power module includes the power, interface and control elements of the demagnetizing system. The connection cables between the coil module and the power module are pluggable.

Power Module DN150

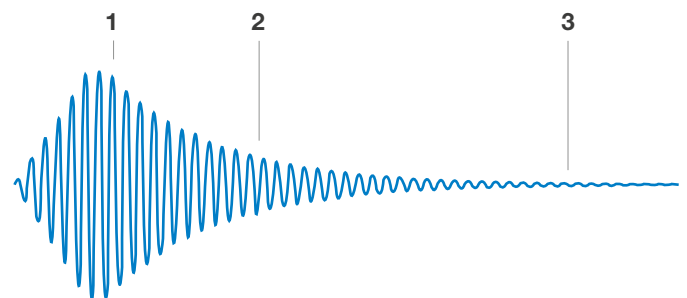
- > Patented pulse demagnetizer, which guarantees that the material is demagnetized all the way into the core
- > Operating status lights
- > Intuitive, reliable operation
- > Demagnetization in pulse mode
- > Robust design suitable for industrial applications
- > Versatile system
- > Reactive current compensated



Maurer Degaussing® technology

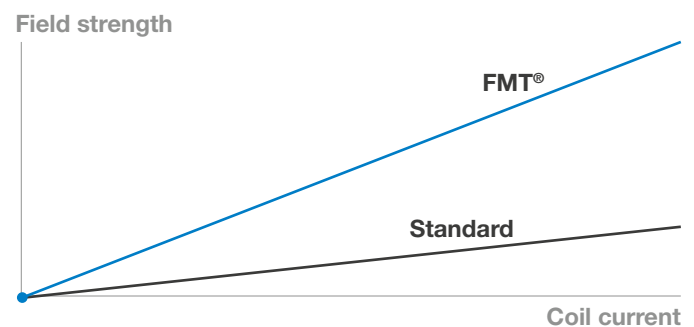
The Maurer Degaussing® process works with pulse demagnetization patented by Maurer. The intensity, amount and precision of the polarity reversals, and the frequency are implemented in an optimum manner by the Maurer-Degaussing® procedure. This package enables demagnetisation that cannot be performed with conventional methods:

1. Short-term high magnetic field strength
2. High number of monotonically decreasing vibrations
3. Run-out exactly to zero magnetic field



FMT® – Field Multiplier Technology

The efficiency of the demagnetising process is implemented directly and used to the full with this technology. The electrical switching used to generate the high field multiplies the current that is fed in and therefore provides high demagnetisation field power. The FMT® (Field Multiplier Technology) solves this problem and enables higher field strengths while keeping the electrical connection power lower at the same time.



Technical data*

Coil module		KE 200 - 150	KE 200 - 80	KE 160 - 100
External dimensions (mm)	W	450		
	H	300		
	D	305		
Active opening (mm)	W	200	200	160
	H ¹	150	80	100
	D	260	260	260
Weight	kg	28	34	
Degree of protection IP		31		
Maximum field strength ²	kA/m	80	115	120
Cycle time		1 pulse/40 s		
Demagnetizing frequency		Designed customer-specific		

Power module		DN 150
External dimensions (mm)	W	300
	H	400
	D	210
Power supply	VAC Hz	1NPE 200 – 240 50/60
Weight	kg	12
Degree of protection IP		51
Peak current ²	A	20
Internal fuse	A	10

Options

- > Process monitoring
- > Shielding chamber
- > UL approved material

Delivery includes

- > KE 200 - 150 + DN 150
- > KE 200 - 80 + DN 150
- > KE 160 - 100 + DN 150



¹ Supplied insert plate made of plastic reduced height by 5 mm, removable, herausnehmbar, ² Effective value lower by a factor of 1.41

* All informations are without guarantee

