

IMPULSE MAGNETIZER T-SERIES

● Outstanding features

- 1000 Volt Maximum
- 300 Joules Energy
- 10,000 Ampere impulse current
- Cycle times less than 4 seconds
- Siemens PLC controls
- Digital operator panel
- Digital voltage setting
- RS 485 interface
- Analog voltage monitor
- Fixture temperature monitor
- Built-in current monitor
- Small foot print
- Single shift 12 months warrantee



IM-T-0312-A-LC

● Description

Our new small and precise unit for sensor manufacture.

Precision magnetic poles are one of the most important technologies today. We continuously are contacted by manufacturers looking for magnetization of multipole sensor magnets. Pole widths down to 0.7 mm on ferrite rings are common in position sensing today. Many times the pole counts can soar to exceed 200+ poles on a single magnet rotor. Fixtures for these magnets require extreme accuracy.

What does this require from a magnetizer? In reality, very little. While magnetic pulses rise up to 10,000 amperes, the energy is in the tens of joules. The remaining energy turns to heat and slows the manufacturing process. The magnetizer needs to limit the wasted energy and speed manufacturing. Short cycle times are the result. This allows you to produce more parts per hour than larger non-specialized machines can.



● Technical data

Type of discharge:	Aperiodically damped
Maximum energy:	300 Ws - Sufficient energy to generate 10000 Amperes of magnetizing impulse current with proper magnetization fixtures
Maximum voltage:	1000 V - allowing higher resistance fixtures due to finer conductors.
Voltage setting:	Digital, 1 V resolution
Maximum current:	approx. 10000 A (depending on magnetization fixture connected)
Cycle time:	ca. 5 s (at maximum energy)
High current outputs:	1
Current monitoring:	Measurement of impulse current. This assures minimum current needed to magnetize the magnet.
Operation:	Display with keyboard remote via 24 V interface
Control:	Siemens PLC with display. Digital readout of voltages set. Programming functions and other control parameters
Machine interface:	I/O via relay contacts 24V, RS488 or RS232
Fixture monitoring:	Ready for temperature monitoring on enabled fixture
Fixture interface:	Font connections covered with interlocked steel panel protecting the user from high voltage
Supply:	1-phase: 230 V AC \pm 10 %, 50/60 Hz, 16 A other supplies possible
Weight	48,0 kg
Dimensions	
- Width:	250 mm
- Height:	500 mm
- Depth:	700 mm