

► MAGNETIC TESTING PRODUCT RANGE

► MPI BATTERY KIT - MAGNETIX MGN3

FLYING VISION



Designed to revolutionize your on-site magnetic particle inspections



► Magnetic Performance

Tangential magnetic field up to 2000A/m at 16,5cm

► Lifting Performance

Up to 6 kg with a pole gap of 11cm

► Electronic Performance

Advanced power electronics managed by a microcontroller for maximum performance

► Safety

Operating voltage of 42VAC for complete operator safety

► Ergonomics, Design

Lightweight and ultra-compact design for unmatched user comfort

► Heavy Duty

Designed and sized for intensive use

► Duty Cycle

Guaranteed usage time of the magnetic yoke among the highest on the market

► Reliability

Mechanical and electronic design ensuring flawless reliability



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Standard Kit Composition



- One Fast single charger with one set of Li-ion batteries (Li-ion 2 x 3Ah for EU - 2 x 2.5Ah for FCC)
- MAGNETIX 42VAC Power driver with his belt and yoke support
- MAGNETIX 42VAC Heavy Duty Yoke
- Rugged transport case



Kits with CE certificate

- Ref : MGN3-1 - MAGNETIX 42VAC Standard Kit
- Ref : MGN3-2 - MAGNETIX 42VAC w/o battery charger Kit

Kits with FCC certificate (availability 2025)

- Ref : MGN3-3 - MAGNETIX 42VAC Standard Kit
- Ref : MGN3-4 - MAGNETIX 42VAC w/o battery charger Kit

The new standard of Performance

Magnetic Field

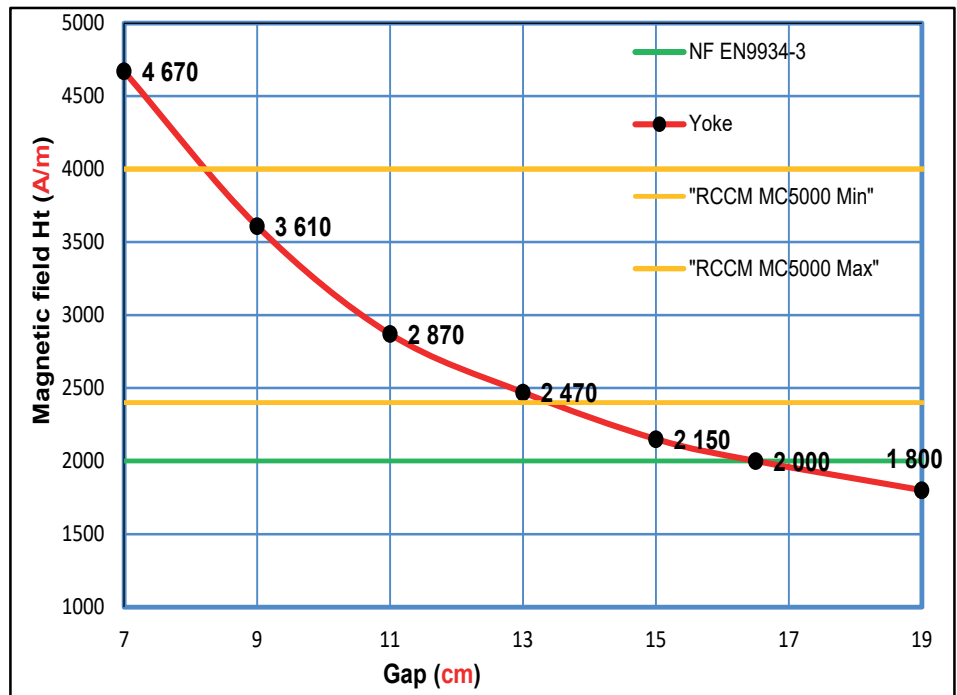
Our advanced electronics combined with our high-performance yoke achieve tangential magnetic field levels that meet all market standards.

Lifting capacity

The lifting capacities of our system easily exceed the minimum required 4.5 kg and are around 6 kg.

Availability of use

The MAGNETIX 42V AC combines a heavy-duty yoke with one of the highest real usage rates in the market and high-level power electronics to work under the most extreme conditions while maintaining top performance.



**The general performance figures provided are indicative as they are specific to each system and may therefore vary slightly. The measurements were taken on a ISO9934-3 C22 metal plate.*

Uncompromising reliability, safety, and durability



Reliability and Durability

Our mechanical and electronic design choices are focused entirely on maximizing performance and reliability.

The polyurethane cables (resistant to tearing and most chemicals) are reinforced at all connections with strain reliefs and metal cable glands.

Our extensive experience and feedback have allowed us to develop a product perfectly suited for the most demanding field conditions.



Safety

We selected a 42V operating voltage to completely eliminate the risk of electric shock for operators, especially in degraded conditions where devices using voltages above 48V can pose a danger.

For example, a severed yoke cable during an inspection inside a metal enclosure.

Many clients prohibit the use of devices with voltages exceeding 48V in metal enclosures (storage tanks, vats, etc.).

The MAGNETIX 42VAC allows you to operate safely in all types of environments while delivering the best performance in the market of portable MPI kits.



Technical characteristics

Details

Working Voltage	42V AC 50/60HZ
Input Voltage	18V DC
Battery pack capacity	2 x 3Ah
Charging time for battery pack (2 batteries)	Dual charger: 1 h - Single charger: 2 h
Duty Cycle	50%
Autonomy for standard field use (25% of Duty Cycle)	Up to 8 hours
Autonomy for intensive field use (50% of Duty Cycle)	Up to 4 hours
PullForce / Lifting Capacity	about 6Kg with pole gap of 11cm
Tangential magnetic field	>2000 A/m at 16,5cm*
Pole section	25 x 25 mm (6,25 cm ²)
Protection Rating IP	IP54
Total weight (excluding case)	5Kg
Certifications	CE, UKCA, FCC pending

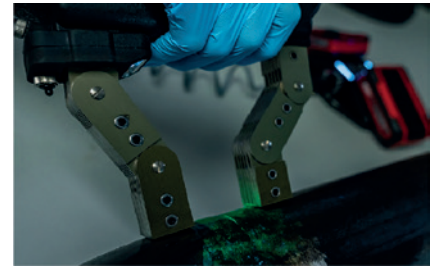
Options and Accessories

UVW dual spektrum Yoke light

Ref : MGN3-A010

Removable dual-spectrum induction lamp (visible or UV) allows you to perform inspections in both visible and UV spectrums for fluorescent testing.

The lamp attaches to one of the poles of the MPI yoke in just seconds, with the magnetic field of the MPI yoke powering the different light sources.



Technical characteristics

White light characteristics :

Light intensity	4500 Lux
Color temperature	4000° K

UV-A light characteristics :

UV Light intensity	2500 $\mu\text{W}/\text{cm}^2$
Stray white light	< 20 Lux



Li-ion dual battery charger

Ref : MGN3-A700-1 - EU version

Dual 3A AC charger allowing simultaneous charging of two batteries.



Li-ion battery pack

Ref : MGN3-500-1 - EU version

Dual Li-ion 3A low profile battery pack for MGN3.