

MGN-BP-MGN4

FLYING VISION



MAGNETIX MGN4

The MAGNETIX MGN4 is the new generation of Flying Vision battery-powered AC Yoke inspection systems.

Built around the new Magnetix Yoke, it delivers powerful AC magnetization, advanced electronic control and exceptional ergonomics for demanding inspection environments.

Operating at 42V AC, the MGN4 provides a safe, reliable and fully portable solution for magnetic particle inspections in oil & gas, nuclear, maritime and heavy industry.

FEATURES

Magnetix Yoke



- Ergonomic handling
- Intelligent control
- High magnetic performance
- Heavy-duty design
- Optional integrated UVW light

Ergonomics



- Belt-mounted system for full mobility
- Lightweight inspection system
- Compact design for confined spaces

Safety



- No electric shock risk in metallic environments
- Safe 42V AC low-voltage architecture
- MCU-controlled protection

Smart Control



- Embedded MCU control system
- Integrated AC power conversion
- Powerful magnetic output
- Optimized energy efficiency
- Real-time system monitoring

Reliability



- Robust heavy-duty construction
- Designed for intensive inspections
- Harsh environment use

- ▶ **MAGNETIC TESTING PRODUCT RANGE**
 - ▶ **MPI BATTERY PACK - MAGNETIX MGN4 42V AC**
 - ▶ **MGN-BP-MGN4**

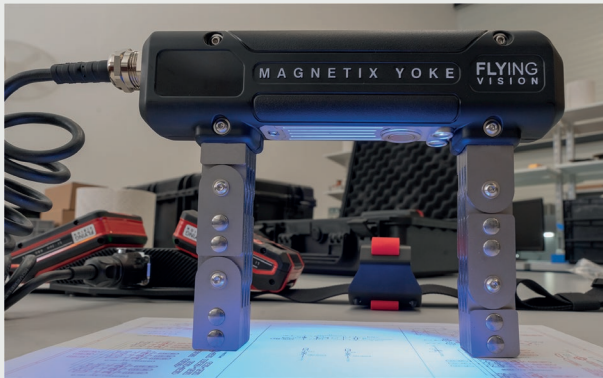
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KIT CONTENT



- **MAGNETIX 42VAC Power driver**
- **MAGNETIX YOKE 42VAC Heavy Duty Yoke**
- **Belt and yoke support with quick-attach system**
- **Fast 4A single charger** (*not included in MGN4US version*)
- **One set of Li-ion batteries** (*not included in MGN4US version*)
- **Rugged transport case**

AVAILABLE VERSIONS



CE Certified Kits

- **MGN-BP-MGN4EU-1** – Standard Magnetix Yoke
- **MGN-BP-MGN4EU-2** – Magnetix Yoke with UVW Light

American Market Kits

- **MGN-BP-MGN4US-1** – Standard Magnetix Yoke
- **MGN-BP-MGN4US-2** – Magnetix Yoke with UVW Light

TECHNICAL DATA

Technical characteristics	Details
Working Voltage	42V AC 50/60HZ
Input Voltage	18V DC
Battery pack capacity	2 x 4Ah
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-equivalent protection
Total weight (excluding case)	5Kg
Certifications	CE, UKCA



NDT Supply.com, Inc.
7952 Nieman Road
Lenexa, KS 66214-1560 USA
Phone: (913)-685-0675
Email: sales@ndtsupply.com