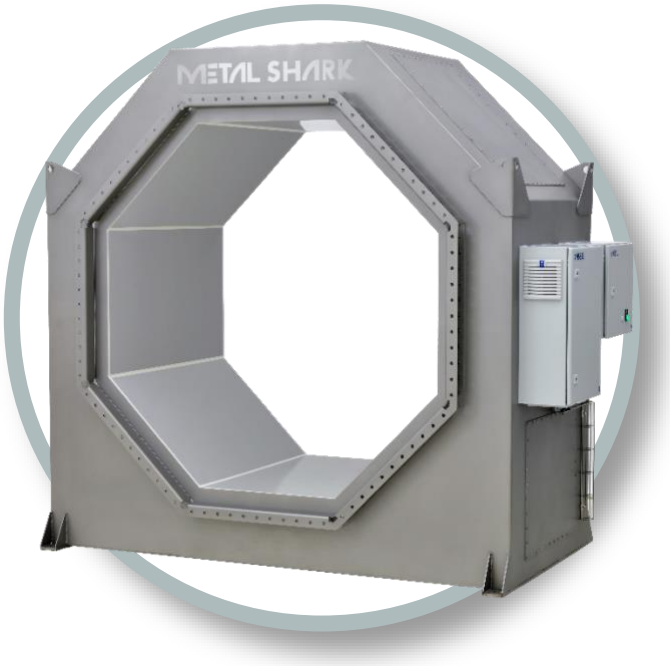
METAL SHARK® OCTA

Metal detection for forestry and sawmills



Highlights

- Design optimized for the monitoring of entire timber logs
- Maintenance-free with automatic balance and calibration control
- Sturdy stainless steel design: extra rugged and with short metal-free zone
- Highest sensitivity with 4-quadrant technology
- Intuitive control and easy installation with automatic calibration and TeachAssistant

Features

- 4-Quadrant technology provides maximum detection performance with the highest available reliability in the detection space
- Simple setup with TeachAssistant
- Memory for up to 250 products
- Easy to use with intuitive and multilingual menus
- Password protection with permission management
- Documentation of all events and metal detection alerts
- Optional: data transfer to USB interface or connection to the company network via SHARKNET® software
- Cyclical function monitoring with Performance Validation System (PVS)
- Resilient to adverse environmental conditions such as high and low temperatures

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Overview

The METAL SHARK® OCTA was developed specifically for industrial use in forestry and sawmills. Its octagonal shape makes it ideal for monitoring logs for metal contamination caused by screws, nails or tools.

It is typically installed with troughed belt conveyors.

By means of the 4 quadrant technology it detects magnetic and non-magnetic metal contaminations (iron, stainless steel, aluminum etc.) accurately and reliably even in challenging conditions.

Application

- Protection of tools and machines from metal items such as nails or screws
- Monitoring of particularly large products, particularly timber logs
- Monitoring of bulky goods on troughed belt conveyors

Industries

- Wood (forestry, sawmills)
- Plastics
- Recycling, reusable material processing
- Paper, cardboard

Included

- OCTA detection unit (sensor)
- METAL SHARK® control unit in stainless steel housing

Accessories & Extras

- Xenon flashing lights
- Acoustic signal generator (horn)
- SHARKNET® access for perfect documentation and device monitoring from a PC
- Control unit can be mounted separately (e.g. wall mounting)

CASSEL INSPECTION

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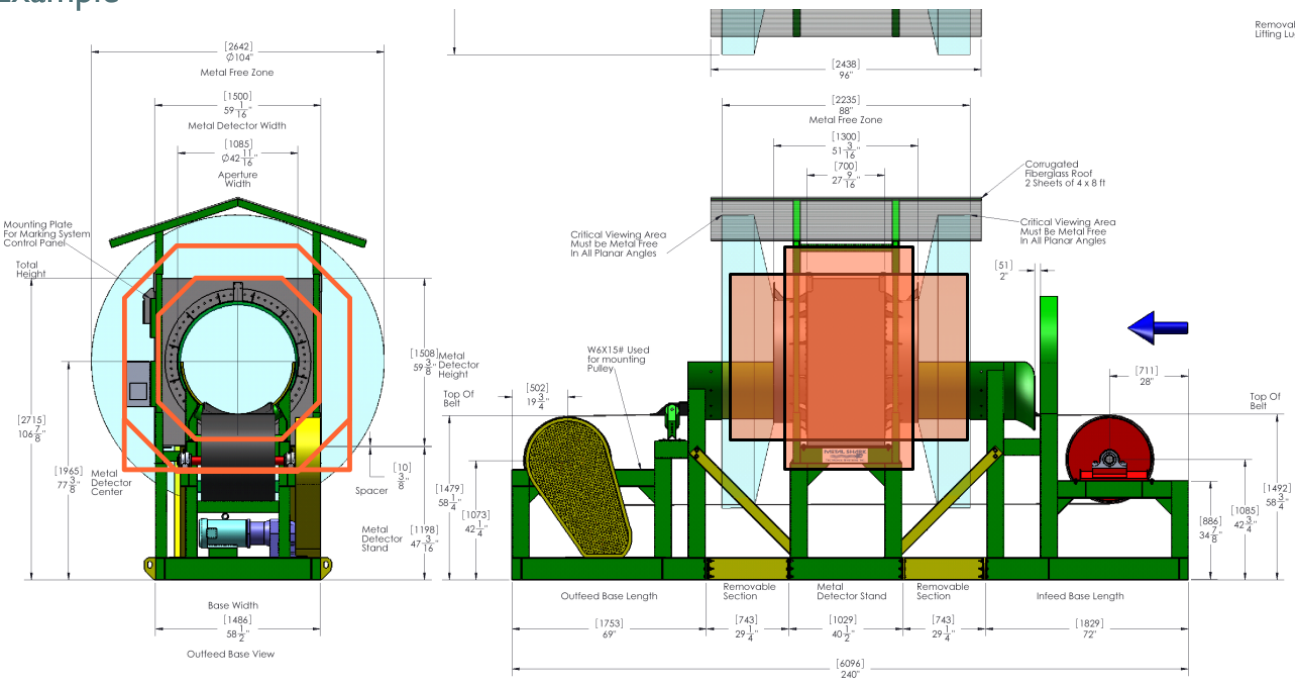
Specifications

Electronics	Digital signal processor, digital frequency generation, digital balance control, automatic calibration, digital noise filters, integrated flexible control functions
Input	2 analog 0 ...10 V DC (option: 4-20 mA) 8 freely configurable 24 V DC signals, e.g. for rotary encoders, product recognition, buttons
Output	2 floating: “error” and “metal” 8 freely configurable 24 V DC signals
Measuring method	High-frequency magnetic field, multi-channel operation, balanced receiver coils
Metal detection	Ferrous, non-ferrous (e.g. tombac, brass, bronze, aluminium, lead, etc.) and stainless steel
Product compensation	250 memory locations, TeachAssistant
Enclosure rating	IP54
Environmental conditions	Standard: -20°C to +40°C / -4°F to 104°F, rel. humidity 20% up to 90%, non-condensing >95% rel. humidity (condensing) with controller casing closed
Temperature of goods inspected	Up to +70°C / +158°F
Power Supply	Single phase 110-240 V AC +/- 5%, typical consumption 20 W (60 W max.)
Interface	RS232, LAN (optional, for SHARKNET®), USB (optional)
Maintenance	Very low maintenance, self-calibrating sensors
Diagnostics	Integrated diagnostic software, automatic self-test

Example



CASSEL INSPECTION

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Sensitivities

Ø Tunnel (mm)	**FE at edges** (mm)	**FE at center** (mm)	**FE at center with SPD booster** (mm / nuts)
1,300 x 1,300	5	14	10-12
1,400 x 1,400	5	14	10-12
1,500 x 1,500	6	15	11-13
1,600 x 1,600	7	17	13-15
1,700 x 1,700	7	18	13-15
1,800 x 1,800	8	20	M6-M8

Disclaimer: Sensitivities largely depend on ambient conditions as well as on the properties and conditions of the goods to be inspected. The dimensions listed above are provided for general indication only. Please note that these dimensions are not contractually guaranteed.

Optional extras & accessories

Material	**Properties**
SHARKNET®	The SHARKNET® software connects METAL SHARK® metal detectors with a central computer, providing centralized storage of all operating data plus batch and alert documentation as well as remote control via a PC.
Super Power Drive (SPD)	Improves metal detection by -0.5 to -1 mm in industrial environments that do not meet electromagnetic compatibility standards, optionally with different IP protection classes and ATEX zone 22.
Flashing light, XENON	Very bright and eye-catching alarm light, 24 V DC, IP 65, RB 10-100 V, 2 W, suitable for mounting on stand or wall mounting
Alarm horn	Alarm transmitter with very loud acoustic signal, 24 V/DC suitable for tripod or wall mounting
Flashing light + horn on stand	Acoustic and visual alarm on stand, stainless steel, with bright red Xenon flashing light and horn for conveyor mounting

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