

- Detects metal contaminants in plates and webs
- Precise metal detection with multi-segment sensor saves valuable material
- Highest sensitivity through 4-quadrant technology
- Intuitive control and easy setup with autocalibration and Teach Assistant
- Maintenance-free through automatic balance and calibration control



- Maximum inspection performance with highest reliability in the entire detection area due to 4-quadrant technology
- Simple setup with teach-in wizard
- Easy to use with intuitive and multilingual menus
- Password protection incl. rights management
- detects the position of the metal contamination in the fabric
- Documentation of all events and metal messages
- Memory for up to 250 products
- Cyclical function monitoring with Performance Validation System (PVS)
- Data transfer to USB interface possible, optional connection to the company network via SHARKNET software
- Sensitivity: Detects iron from 0.6 mm and stainless steel from 0.7 mm



METAL SHARK COMBI TU .in einer Kartonagenfabrik.

Scope of Delivery:

- Detection unit/Sensor
- Controller METAL SHARK® 2A, PC with Windows Pro, 15" monitor and keyboard in control cabinet

Versions:

The METAL SHARK® COMBI TU is adapted exactly to the production on site

- freely selectable widths from 1 m/3.3 ft to 5 m/16.6 ft and more
- freely selectable number of detection units

Accessories & Extras:

- High temperature version
- LPW or HPW version for different hygienic requirements
- SHARKNET access for perfect documentation according to HACCP standard
- separate mounting of the controller (e.g. wall mounting)
- Signalling devices (optical/acoustic)
- ATEX version

Function:

The METAL SHARK® COMBI TU is a multi-segment sensor typically used over fabric, non-woven or paper webs as well as plates of different materials. It detects the smallest metal particles from 0.6 mm and localizes their position in defined segments of the product.

The METAL SHARK® COMBI TU is suitable for widths up to

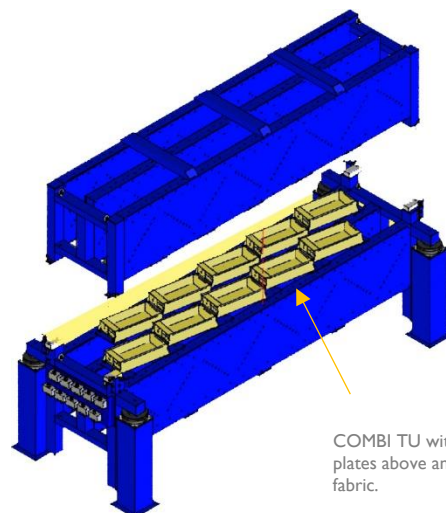
5 m/16.6 ft and more available. It can be easily operated in humid environments with ambient temperatures from -10°C to +40°C and product temperatures up to 65°C.

Application:

- Monitoring of flat products, which are conveyed in webs or plates
- Quality assurance for incoming goods, outgoing goods or during running production
- Detection of broken needles and other metal parts in the textile industry
- Machine protection, e.g. in fleece or plate processing

Industries:

- Textile and Non-Woven
- Paper, Cardboard
- Wood Processing
- etc.



COMBI TU with ten sensor plates above and below the fabric.

Specifications:

Elektronics	Digital signal processor, digital noise filter, digital balance control, digital frequency control, PowerDrive circuit
Input Signals	8 freely configurable 24 V DC signals
Output Signals	2 potential-free: "error" and "metal" 8 freely configurable 24 V DC signals
Inspection Method	inductive, multi channel operation, balanced receiver coils
Metal Detection	Iron, non-ferrous (e.g. aluminium or copper) and stainless steel
Product Compensation	250 storage spaces, compensation performed automatically, with Teach-Assistant
Protection Type	IP 54
Ambience	standard: -10° C bis +40° C optionally: -40° C oder +55° C
Product Temperature	up to +60° C
Power Supply	One phase I 10-240 VAC, 50/60 Hz, typ. consumption 20 W (max. 60 W)
Controller Interface	RS232, provides documentation according to HACCP-standard, USB- or ethernet option
Maintenance	maintenance-free, selfcalibrating sensors
Diagnosis	integrated diagnostic software, automatic self-test
Detection width	1.000 mm/3.3 ft up to 5.000 mm/16.6 ft
Aperture height	28 mm net The maximum panel thickness of the product depends on the thickness of the product and the deflection, the sum of which must not exceed the net passage height. Example: Net passage height 28 mm - panel thickness 8 mm = max. 20 mm panel deflection
Sensitivity	FE 0.6 mm, Al 0.8 mm, SS 0.7 mm (The sensitivities are highly dependent on the environment in which a metal detector is installed. The sensitivities mentioned here should therefore only be considered as guide values).

Special Designs & Additional Tools:

SHARKNET®-2	The SHARKNET®-2 software connects METAL SHARK® metal detectors to a central computer and offers central storage of all operating data as well as batch and alarm documentation and remote control and maintenance from a PC.
Fast Power Drive (FPD)	Significantly improves metal detection and reliability in industrial environments that do not meet electromagnetic compatibility standards, different IP protection classes and ATEX Zone 22 possible
Super Power Drive (SPD)	Significantly improves metal detection and reliability in industrial environments that do not meet electromagnetic compatibility standards, different IP protection classes and ATEX Zone 22 possible
Temperature extension cold	Temperature range extended to -40°C, temperature-elastic grouting material, insulation, control cabinet heating and other measures
Temperature extension hot	Temperature range extended to +55°C, adaptation of control cabinet, additional thermal insulation, replacement of filter fan, heat exchanger and/or active cooling units
Temperature extension for product	Product temperature up to max. +120°C, with this option, the sensor has protection type IP54
AutoSens	Signal transfer of belt speed and mat height from the system control for automatic adjustment of the detector sensitivity
Belt seam detection	Prevents false alarms through the belt seam

Accessories:



Flashlight XENON red
Very bright conspicuous optical alarm, 24V DC, IP 65
RB 10-100V 2W Xenon beacon
suitable for tripod or wall mounting



Alarm horn
Alarm transmitter with very loud acoustic signal, 24 V/DC
suitable for tripod or wall mounting



Flashlight + horn on stand
Acoustic and optical alarm on stand, stainless steel,
with bright xenon flashlight red and horn for conveyor belt mounting



Belt seam detection
Prevents false alarms triggered by the belt seam

CASSEL quality promise:

Every single device is thoroughly tested during and after production.

Before delivery from the factory it is tested for several days subjected to a final inspection.

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