METAL SHARK® HW

METAL SHARK® HW – High Sensitive Metal Detection System

Cassel has over 5,000 metal detectors installed all over the world. Local technical service is available in over 40 countries through factory trained service support staff. Cassel's strategy is offering their customers high value for low price (Best Product, Best Price, Best Service, Best Long Term Performance).

METAL SHARK® Controller

Almost no maintenance

■ *Automatic balance and calibration control* ensures many years of reliable performance. The requirement for costly routine manufacturer involvement is eliminated, once set the METAL SHARK® never requires manufacturer adjustment. The METAL SHARK® saves your service budget.

■ By using *SMD technology* all circuits have been miniaturised and housed on one, multi-layer main board, and so should the unexpected occur the board replacement can even be conducted by most factory electricians.

■ *Maintenance free drum motor*, no drive belt

Intuitive easy operation

■ The display shows only the information that is really required. *Reduction to the essential* makes operation clear and transparent.

■ *Teaching Menu* - Product Characteristics are captured with a single button push.

■ *Product library* - The characteristics of 120 different products are stored and recalled here.
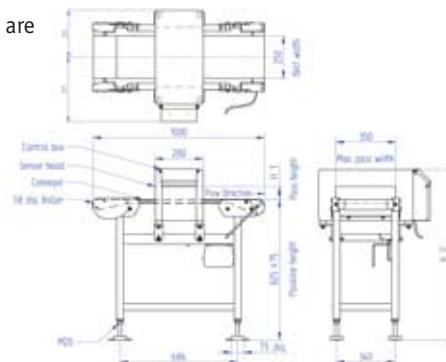
■ *Performance validation* - According to HACCP the metal detector is a critical control point and therefore, it must be checked regularly.

The performance validation automatically prompts the operator to test the performance of the METAL SHARK® at preset intervals.
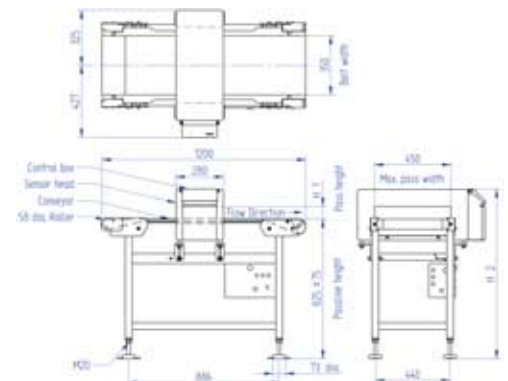
HW1000/xxx   HW1200/xxx

Specifications

Model	HW1000/100	HW1000/125	HW1000/150	HW1200/100	HW1200/125
Pass height	75 mm	100 mm	125 mm	75 mm	100 mm
Max. pass width	350 mm	350 mm	350 mm	450 mm	450 mm
Belt width	250 mm	250 mm	250 mm	350 mm	350 mm
Conveyor length	1000 mm	1000 mm	1000 mm	1200 mm	1200 mm
Max. product weigth	10 kg	10 kg	10 kg	15 kg	15 kg
Memory numbers	120	120	120	120	120
Protection class	IP66	IP66	IP66	IP66	IP66
Belt speed	19 m/min (fix speed, KLM option) or 5 – 30 m/min (variable speed, STR option)				
Metal detection	Stop on detect and buzzer alarm, optional auto reject				
Product packaging	standard plastic or carton, metalized film (aluminium evaporated)				
Environment	Temperature -18 to +50°C, relative humidity 30 to 85%				
Power supply	200 – 240 V AC, 50/60 Hz, 250 W, 3 phase (standard) or 1 phase (with STR option)				
Exteriors	Stainless steel (SUS 304), Belt FDA/USDA compliance, Drum motor				

■ *Operation history* - Events such as metal detections or parameter settings are stored in a log list, including date and time and can be read on the display or exported via serial or ethernet link.

■ *Auto self-control* - possible functional defects of the device are displayed on a separate output contact.

■ *Password protection* against unauthorized operation.

Outstanding sensitivity and stability

■ *The METAL SHARK®* provides outstanding sensitivity, accuracy, stability and precise product effect-compensation.

■ *Auto calibration* - Provides simple and quick learning of product characteristics for product effect compensation. Preset product properties for DRY, WET, SALTY, FROZEN and ALU FILM makes new product setting exceptionally easy and reliable.

■ *Phase Tracking* - Product effects are compensated and adjusted in an intelligent way.

■ *Precise metal detection on highest level* - Digital noise filters eliminate undesired signals.

■ *Multi-channel technology* for the optimum detection of all metals: ferrous, non-ferrous and stainless.

■ *Highest endurance* - the extra sturdy sensor construction is designed to operate in extreme operation applications where others fail. Large sensor housings shield effectively against external interferences.

The sensor head is fully encapsulated in a solid epoxy block, making the METAL SHARK® ideal for the harshest of environments.

Production line integration

■ *Variable belt speed (STR option)*

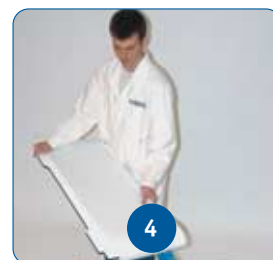■ *Adjustable line height*

■ *Adjustable sensor head height*

■ *Auto power supply*: Wide input 85-265 V AC works great even with unstable and poor power sources.

HACCP and IFS compliance

■ *Easy cleaning, hygenic design* - Open stainless frame without dirt traps. Waterproof stainless drum motor. Fully encapsulated sensor head.

■ *FDA/USDA approved transfer belt*

■ *Ready for SHARKNET® software* - SHARKNET® enables automatic documentation for HACCP and IFS compliance.

Specifications

Model	HW1200/150	HW1200/175	HW1200/200	HW1200/225	HW1200/250
Pass height	125 mm	150 mm	175 mm	200 mm	225 mm
Max. pass width	450 mm	450 mm	450 mm	450 mm	450 mm
Belt width	350 mm	350 mm	350 mm	350 mm	350 mm
Conveyor length	1200 mm	1200 mm	1200 mm	1200 mm	1200 mm
Max. product weigth	15 kg	15 kg	15 kg	15 kg	15 kg
Memory numbers	120	120	120	120	120
Protection class	IP66	IP66	IP66	IP66	IP66
Belt speed	19 m/min (fix speed, KLM option) or 5 – 30 m/min (variable speed, STR option)				
Metal detection	Stop on detect and buzzer alarm, optional auto reject				
Product packaging	standard plastic or carton, metalized film (aluminium evaporated)				
Environment	Temperature -18 to +50°C, relative humidity 30 to 85%				
Power supply	single phase 85 ~ 264 V AC, 50/60 Hz, 250 Watt				
Exteriors	Stainless steel (SUS 304), Belt FDA/USDA compliance, Drum motor				

CASSEL

Metal Detection, X-Ray and Weighing Systems

METAL SHARK® Downpipe

METAL SHARK® Checkweigher

METAL SHARK® IN MEAT

METAL SHARK® Pharma

METAL SHARK® IN Liquid

METAL SHARK® X-Ray

As a manufacturer Cassel is committed to highest standards of quality. For more than ten years our goal has been to ensure the quality of your products. Our reputation has been earned by protecting yours. We supply customers in different industries worldwide such as Foods, Plastics, Pharmaceuticals, Textile, Timber and Mining.

Our headquarters and state of the art manufacturing facility are located near Hannover in the heart of Germany. Each year we manufacture and deliver over 1000 metal detection systems. Approximately 80% of the production is heading for export markets. To ensure you get the very best of service and support wherever on the globe you are using our metal detectors, we have a worldwide network of partner agents.