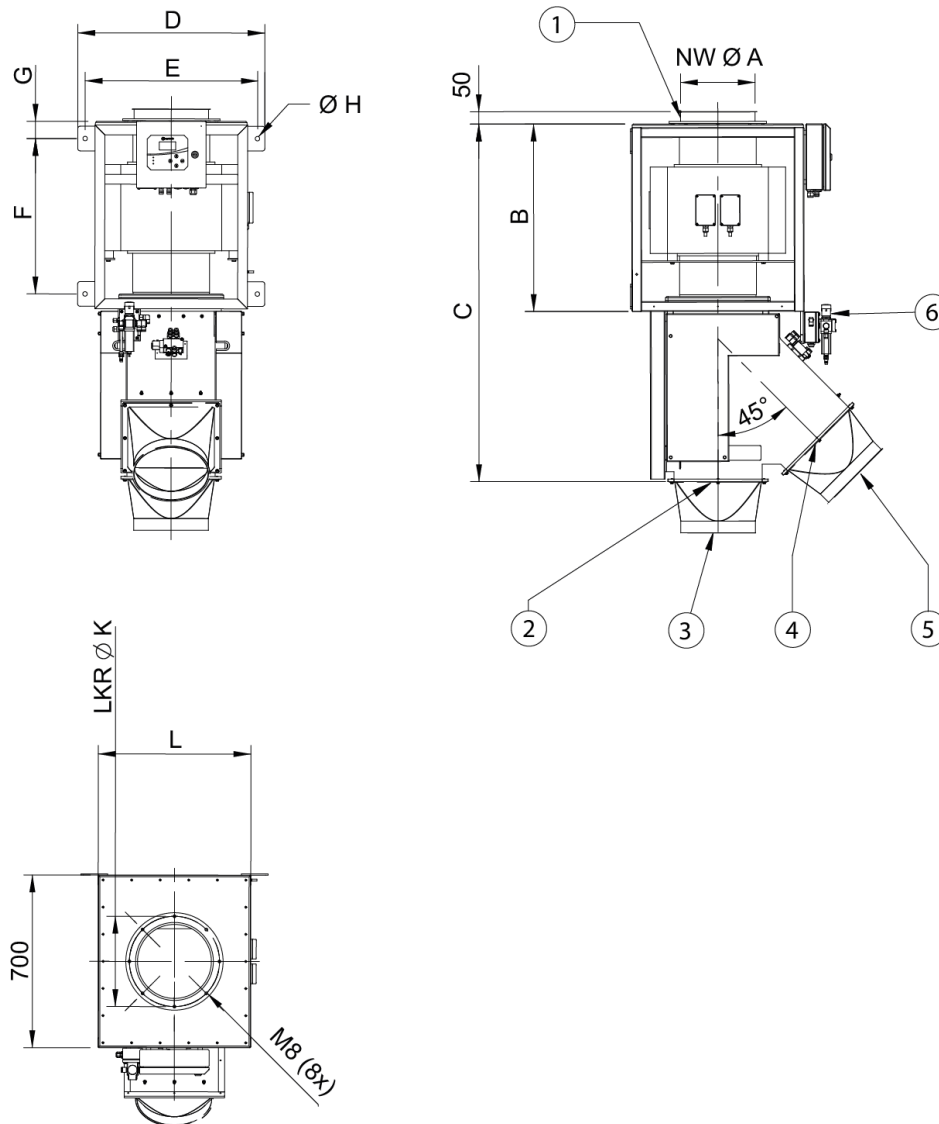


Dimensions



- | | |
|--|--|
| 1 Goods infeed: Jacob system | 4 Rejects outlet: Angular device connection |
| 2 Goods outlet: Angular device connection | 5 <i>Optional: Rejects outlet Jacob system</i> |
| 3 <i>Optional: Goods outlet Jacob system</i> | 6 Compressed air connection |
| | <i>Optional: Advanced system monitoring for compressed air and separation flap</i> |

ø A	B	C	D	E	F	G	ø H	ø K	L	Weight [kg]*
250	760	1450	760	700	630	70	18	280	620	253
300	760	1450	760	700	630	70	18	366	620	265
350	910	1600	740	710	850	35	10.5	405	680	300

All dimensions in [mm]

* Weight without packaging, including standard equipment

Note: The area around the metal detector, the metal-free zone (MFZ), must be free of any metallic components. Detailed information can be found in the operating instructions under the chapter "Assembly guidelines".

Version 001-01

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Product description

The QUICKTRON B is a highly sensitive metal separator for bulk materials that are conveyed in free fall. It is used for quality control and to protect machines such as mills, extruders and kneading machines. The separator reliably detects and removes all types of metal – whether loose or as inclusions in the material – and thus ensures smooth processes and high product purity.

Areas of application

The QUICKTRON B is suitable for applications in the **food** and **non-food** sectors.

Food

For free-fall applications in the food industry, e.g. for nuts, dried fruit, confectionery and other industrial sectors with comparable products and requirements.

Non-food

For applications in the plastics, recycling, wood and construction materials industries, as well as in other industrial sectors with comparable products and requirements.

Hygienic requirement

Suitable for low to medium requirements

Bulk material classification

Product shape

Lumpy, flaky or fibrous bulk materials,
e.g. granulate, ground materials, flakes, fibres, grains, leaves

Grain size max. in mm

Grain sizes up to and including 20 mm - *Different specifications on request*

Properties of the bulk material

Dry, product-specific effects can be compensated for
- *Different specifications on request*

Flowability

Good, medium

Type of material flow

Unpressurised free-fall conveying

Typical throughput

NWØ [mm]	250	300	350
DL [l/h]*	165,900	238,900	325,000

* The throughput capacity (DL) was determined on the basis of free-flowing granulate at a pipe filling level of 30 % and a free-fall height of 0.5 m. The data refer to continuous conveying. Deviations occur depending on the particle shape and flow properties.

Ambient conditions

Free-fall height

Up to 500 mm above top edge of device - *Different specifications on request*

Installation type

Vertical installation

Product temperature

+ 80°C

Ambient temperature

-5°C to +40°C

Storage / transport conditions

-10°C to +60°C

Relative humidity

0% to 95% (without condensation)

Equipment & specifications

Electronics version	AMD 05 (see technical data sheet for electronics)
Operator interface	Graphic display with membrane keypad, keypad
Operating unit - Assembly type	Built-in
Detector coil (food)	Stainless steel AISI 304
Detector coil (non-food)	Painted aluminium
Protection class of overall device	IP 65
Parts in contact with the product	Stainless steel AISI 304, sandblasted Sensing tube material: PE-EL (polyethylene, electrically conductive) Sealing material of separation flap on side: Teflon Front sealing material: PU (polyurethane) Damping for flaps: NR (natural rubber)
Compressed air connection	Compressed air supply: min. 6 bar - max. 10 bar Compressed air maintenance unit incl. hose with plug nipple (7.2 mm)
Noise level	Max. 95 dB (A) during switching operation
Device connection	Goods infeed: Jacob system Goods and rejects outlet: angular

Detection accuracy

NWØ	FE Ø	Non-FE Ø	AISI 304 Ø
250	1.50	1.50	1.75
300	1.50	1.50	1.75
350	1.75	1.75	2.00

All dimensions in [mm]

The specified sensitivities (ball Ø in mm) are based on factory settings and were determined under simulated production conditions in the centre of the passage opening. They refer to typical products according to the bulk materials classification and serve as a guide. The actual detection performance depends on the selected frequency as well as on product properties such as shape, conductivity and flow properties. An individual assessment is required for deviating product or process conditions.

Standard scope of delivery

Metal separator (metal detector, separation mechanism and evaluation electronics)

Operating instructions with spare parts list and electronic connection diagram

EU Declaration of Conformity:

- 2006/42/EC (Machinery Directive)
- 2014/30/EU (EMC Directive)
- 2011/65/EU (RoHS Directive)
- Delegated directive (EU) 2015/863 (extension of the RoHS Directive)

Versions

- ATEX (dust): Zone 20 | 21 | 22 (indoor), Zone 21 | 22 (outdoor)

Conformity

Optionally available:

- Regulation (EC) No. 1935/2004 + FDA (Food and Drug Administration)
- NRTL certification (61010-1)
- IEC certification (61010-1)
- Test piece certificate

Options

- Advanced system monitoring: Compressed air and separation mechanism
- Test opening for test piece rods
- Separate operating unit and detector head (2m)

Accessories

- Jacob transition pieces on goods and rejects outlets - Stainless steel AISI 304
- Test piece (FE Ø, Non-FE Ø, AISI 304 Ø)
- mesuINSERT (test piece insertion station + collection station)
- Test button (mounted on the electronics housing)
- Signal combination for error status warning
- mesuEXPORT (automatic protocol export)
- mesuREMOTE (remote maintenance kit)
- mesuLINK (networking software)
- Clamping rings
- WLAN module

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Technical changes and errors excepted.

Note:

If you require further product information that goes beyond the content of this technical data sheet and in particular concerns a specific use and the application of this product, please contact us.