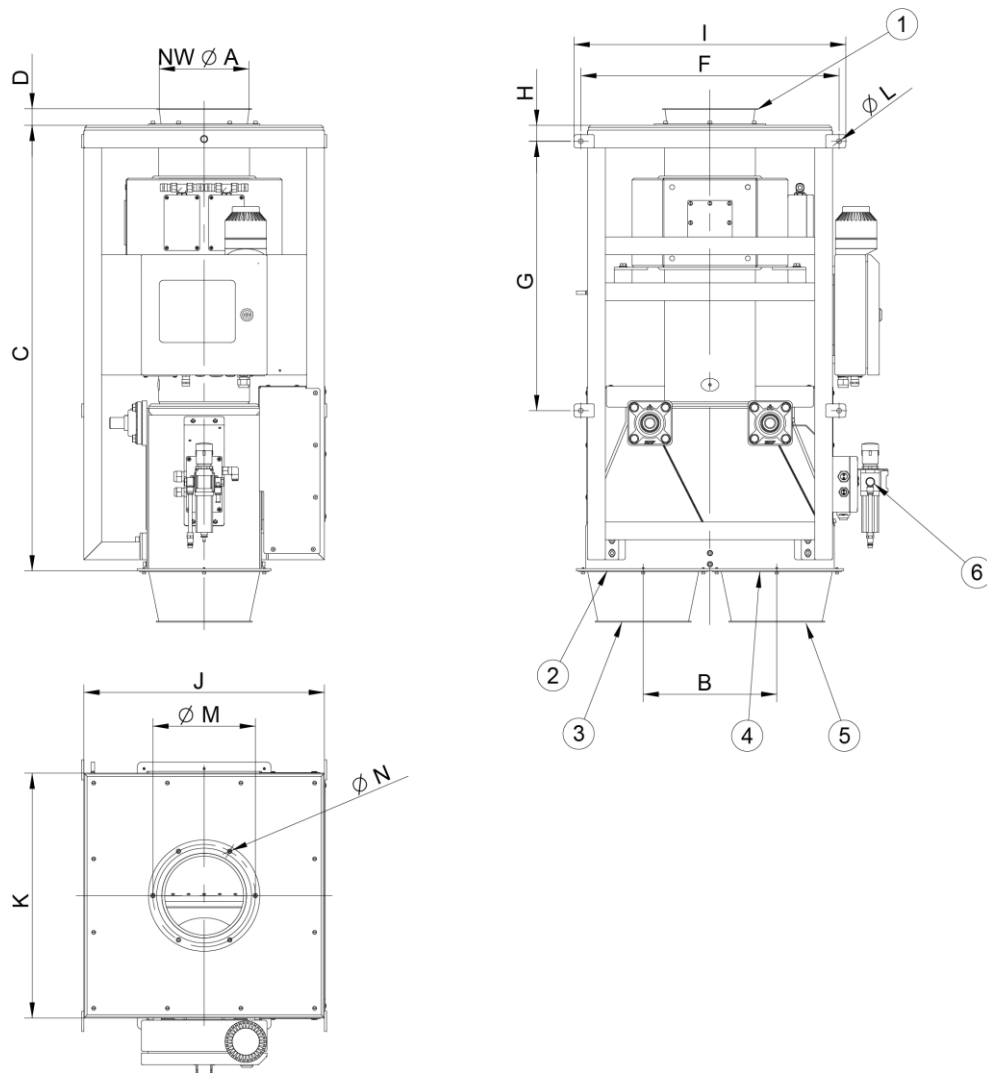


Dimensions



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

Ø A	B	C	D	F	G	H	I	J	K	Ø L	M	Ø N	Weight [kg]*
150	300	940	36	580	545	36	610	540	550	10.5	Ø 180	6 x Ø 5.5	100
200	300	1000	37	580	605	36	610	540	550	10.5	Ø 230	6 x Ø 10	105
250	400	1400	48	740	1100	35	770	650	710	10.5	Ø 280	6 x Ø 6.5	170
300	400	1400	50	740	1100	35	770	650	710	10.5	Ø 366	8 x Ø 11	210
350	400	1645	50	790	760	150	850	790	710	18	Ø 405	8 x Ø 11	280

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".

Product description

The QUICKTRON E 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. 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 E is suitable for applications in the **non-food** sector.

Non-food	For applications in the plastics, recycling and wood industries, as well as in other industrial sectors with comparable products and requirements.
Hygienic requirement	Not suitable for the food sector.

Bulk material classification

Product shape	Scraps of film, fibres
Grain size max. in mm	20 mm to 50 mm – <i>Product assessment recommended</i>
Properties of the bulk material	Dry, non-abrasive
Flowability	Good, medium
Type of material flow	Unpressurised free-fall conveying

Typical throughput

NW ø [mm]	150	200	250	300	350
DL [l/h]*	33,800	60,100	94,000	135,000	184,000

* The throughput capacity is determined on the basis of a pipe filling level of 17 % and a free-fall height of 0.5 m. Deviations may occur depending on the particle shape and flow characteristics. The data refer to continuous conveying. For optimum material feed and process stability, an assessment by Mesutronic's internal service department and, if necessary, a product test are recommended.

Ambient conditions

Free-fall height	Up to 500 mm above top edge of device - <i>Different specifications on request</i>
Installation type	Vertical installation
Product temperature	+ 80°C
Ambient temperature	-5°C to +50°C
Storage / transport conditions	-10°C to +60°C
Relative humidity	0% to 95% (without condensation)

Equipment & specifications

Electronics version	AMD 05 or AMD 03 (<i>see technical data sheet for electronics</i>)
Operator interface	AMD 05: Graphic display with membrane keypad, keypad AMD 03: Hotkeys
Operating unit - Assembly type	Built-in
Detector coil (non-food)	Painted aluminium
Protection class of overall device	IP 54
Parts in contact with the product	Stainless steel AISI 304, sandblasted Sensing tube material: PE-EL (polyethylene, electrically conductive) Sealing material at the bottom: PU (polyurethane) Sealing material at the side: PTFE (Polytetrafluoroethylene) Separation flap: GRP (glass fibre reinforced plastic)
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
150	0.80	0.80	1.20
200	1.00	1.00	1.50
250	1.20	1.50	1.50
300	1.50	1.75	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)

Conformity

Optionally available:

- 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)
- Signal combination for error status warning
- Clamping rings

Optionally available with AMD 05:

- Test button (mounted on the electronics housing)
- mesuEXPORT (automatic protocol export)
- mesuREMOTE (remote maintenance kit)
- mesuLINK (networking software)
- 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.