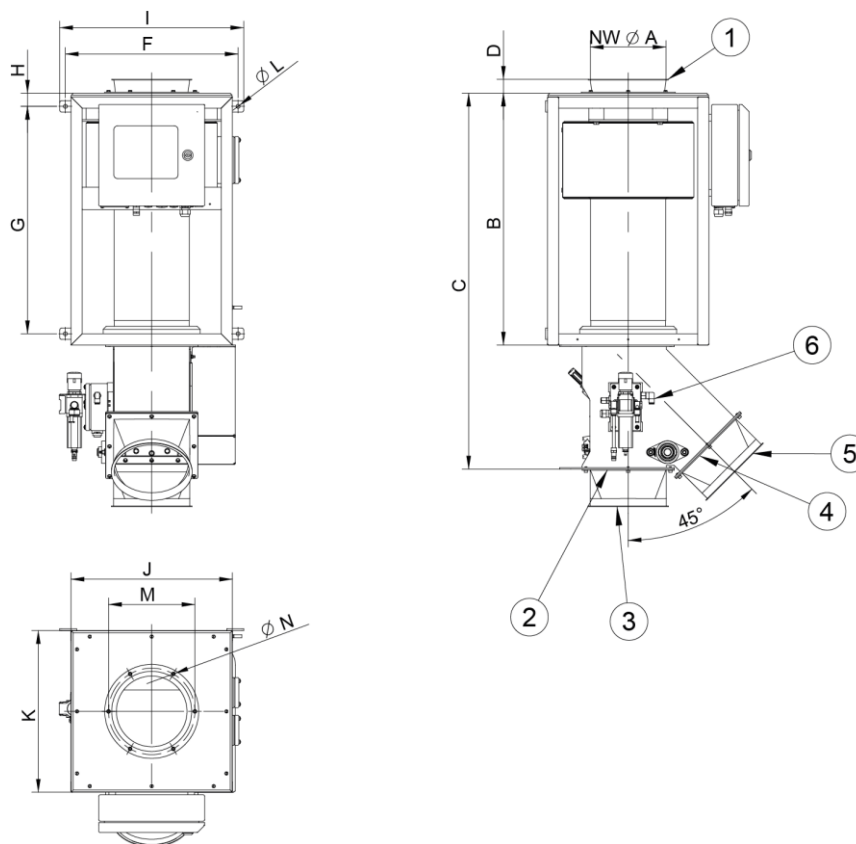


Dimensions



- 1 Goods infeed: Jacob system $\geq$ NW 80
 Smooth pipe socket $<$ NW 80
- 2 Goods outlet: Angular device connection
- 3 Optional: Goods outlet Jacob system
- 4 Rejects outlet: Angular device connection
- 5 Optional: Rejects outlet Jacob system
- 6 Compressed air connection
 Optional: Advanced system monitoring for compressed air and separation flap

Ø A	B	C	D	F	G	H	I	J	K	Ø L	M	Ø N	Weight [kg]*
50	310	490	-	250	260	35	-	300	220	10.5	□ 72x72	4 x M5	20
70	310	490	-	250	260	35	-	300	220	10.5	□ 130x130	4 x M5	25
80	400	650	35	330	340	35	360	300	300	11	Ø 108	6 x M5	29
100	405	655	28	330	340	40	360	300	300	11	Ø 130	6 x M5	36
120	455	705	28	330	390	40	352	300	300	11	Ø 150	6 x M5	43
150	470	800	36	380	410	35	410	350	370	10.5	Ø 180	6 x M5	70
200	670	1000	37	460	605	35	490	430	430	10.5	Ø 230	6 x M5	90
250	665	1200	50	580	605	35	620	530	530	14.5	Ø 280	6 x M5	140
300	870	1405	50	680	805	40	720	630	630	14.5	Ø 366	8 x M10	190
350	1440	2100	50	760	1120	150	820	680	770	18	Ø 405	8 x M10	312
400	1540	2200	50	810	1220	150	870	730	820	18	Ø 448	12 x M10	351

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 A is a highly sensitive metal separator for bulk materials in free fall. It is used for quality control and to protect machines such as mills, kneading machines, packaging systems or big bag filling stations. The separator reliably detects and removes all types of metal – both loose and as inclusions in the material – and thus ensures smooth processes and high process reliability.

Areas of application

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

Food	For free-fall applications in the food industry, e.g. for ground bulk materials such as semolina or oat flakes, grains such as coffee beans, rice, maize
Non-food	For applications in the plastics, recycling, wood and construction 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	Ground bulk materials, granulate, ground materials, grains
Grain size	max. ≤10 mm - <i>Different specifications on request</i>
Properties of the bulk material	Dry, product-specific effects can be compensated for - <i>Different specifications on request</i>
Flowability	Good, medium
Type of material flow	Unpressurised free-fall conveying

Typical throughput

NWø [mm]	50	70	80	100	120	150	200	250	300	350	400
DL [l/h]*	6,600	13,000	16,900	26,500	38,200	59,700	106,200	165,900	238,900	325,000	424,000

* 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 - <i>Different specifications on request</i>
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) Flap seal: Light-coloured EPDM (ethylene propylene diene rubber) Shaft seal: PE (polyethylene)
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 $\geq$ NW 80, smooth pipe socket < NW 80 Goods and rejects outlet: angular

Detection accuracy

NWØ	FE Ø	Non-FE Ø	AISI 304 Ø
50	0.40	0.40	0.60
70	0.50	0.50	0.80
80	0.60	0.60	1.00
100	0.70	0.64	1.00
120	0.70	0.64	1.00
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
400	1.75	2.00	2.50

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)
- High-temperature version max. 140°C (not suitable for the food sector)

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

- Surface roughness RA 0.8µm to NWØ200 – in contact with the product
- 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 | ○ mesuREMOTE (remote maintenance kit) |
| ○ Test piece (FE Ø, Non-FE Ø, AISI 304 Ø) | ○ mesuLINK (networking software) |
| ○ mesuINSERT (test piece insertion station + collection station) | ○ Clamping rings |
| ○ Test button (mounted on the electronics housing) | ○ WLAN module |
| ○ Signal combination for error status warning | |
| ○ mesuEXPORT (automatic protocol export) | |

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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.