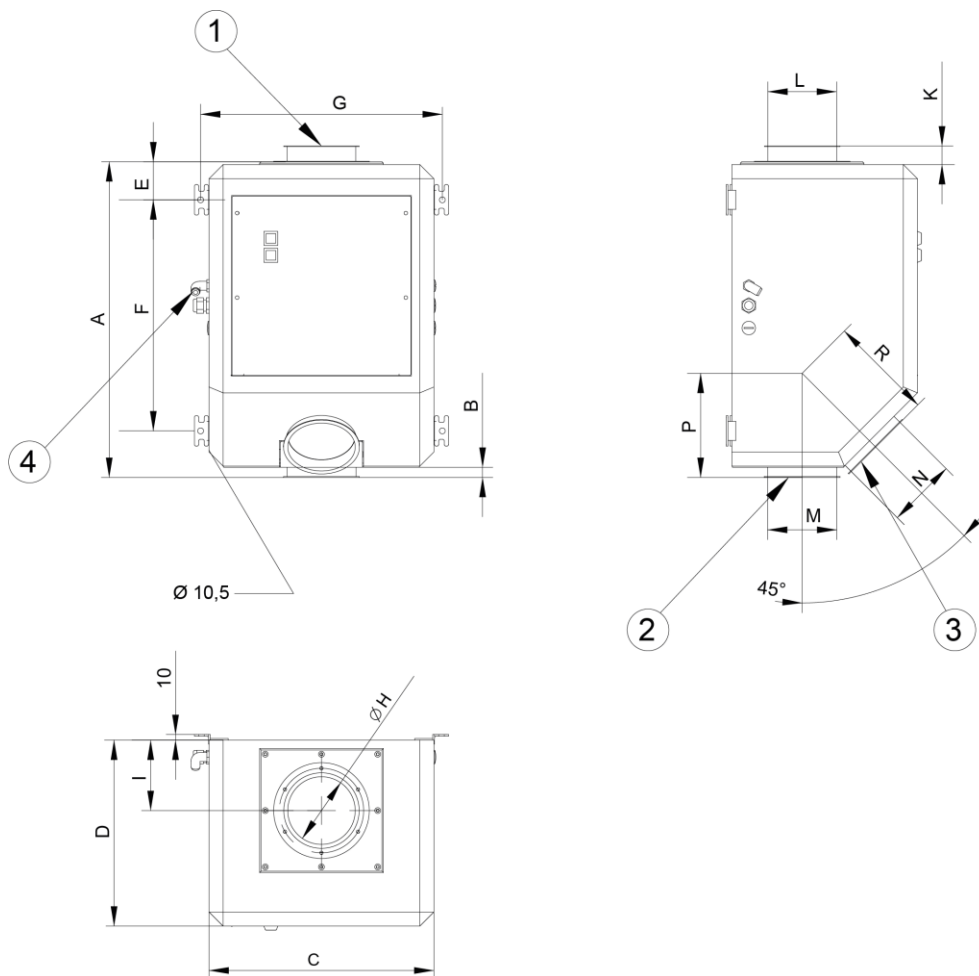


Dimensions



- 1 Goods infeed: Jacob system $\geq$ NW 80
2 Goods outlet: Jacob system
3 Rejects outlet: Jacob system
4 Compressed air connection
Optional: Advanced system monitoring for compressed air and separation flap

NWØ	A	B	C	D	E	F	G	H	I	K	L	M	N	P	R	Weight [kg]*
30	420	18	300	250	60	290	330	32	95	Rem.	Rem.	80	80	134	135	18
50	420	18	300	250	60	290	330	45	95	Rem.	Rem.	80	80	134	135	18
70	420	18	300	250	60	290	330	70	95	Rem.	Rem.	80	80	134	135	18
80	577	35	400	330	67.5	410	430	80	125	35	80	80	80	202	202	37
100	577	35	400	330	67.5	410	430	98	125	28	100	100	100	202	202	37
120	560	18	400	330	67.5	410	430	111	125	28	120	120	120	185	185	37
150	650	17	450	380	77.5	240/ 480	480	124	160	36	150	150	150	230	230	48
200	800	100	500	460	81	270/ 540	530	177	165	37	200	200	200	376	401	61

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 R is a compact metal separator for the automatic removal of metallic contaminants from free-flowing bulk materials in free fall. The separation process is fast and precise, without interrupting the material flow. With round connections and a robust design, the device can be easily integrated into existing systems. Typical areas of application are the plastics and recycling industries.

Areas of application

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

Non-food For applications in the plastics and recycling industry, e.g. for granulate, ground materials, 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 Granulate, round materials

Grain size max. ≤ 10 mm - *Different specifications on request*

Properties of the bulk material Dry - *Different specifications on request*

Flowability Good, medium

Type of material flow Unpressurised free-fall conveying

Typical throughput

NWø [mm]	30	50	70	80	100	120	150	200
DL [l/h]*	2,300	6,600	13,000	16,900	26,500	38,200	59,700	106,200

* 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

Installation type Vertical installation

Product temperature + 50°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 03 (see technical data sheet for electronics)
Operator interface	Hotkeys
Detector coil	Painted aluminium
Device housing	Powder-coated steel, textured paint (RAL 3027)
Protection class of overall device	IP 54
Parts in contact with the product	Galvanised steel, stainless steel AISI 304 Sealing material: PU (polyurethane) CN (adhesive layer, natural rubber) Separation flap: Stainless steel AISI 304 GRP (glass fibre reinforced plastic) Sensing tube material: PE-EL (polyethylene, electrically conductive) Adapter plate: PA (polyamide) Connection plate: PP (polypropylene)
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	Infeeds and outlets: Jacob pipe system

Detection accuracy

NWØ	FE Ø	Non-FE Ø	AISI 304 Ø
30	0.50	0.50	0.80
50	0.60	0.60	1.00
70	0.70	0.80	1.20
80	0.80	0.80	1.20
100	1.00	1.00	1.50
120	1.00	1.20	1.50
150	1.50	1.50	1.75
200	1.75	2.25	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

Accessories

- Test piece (FE Ø, non-FE Ø, AISI 304 Ø)
- mesuINSERT (test piece insertion station + collection station)
- Signal combination for error status warning
- Advanced system monitoring: Compressed air and separation mechanism
- Clamping rings

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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.