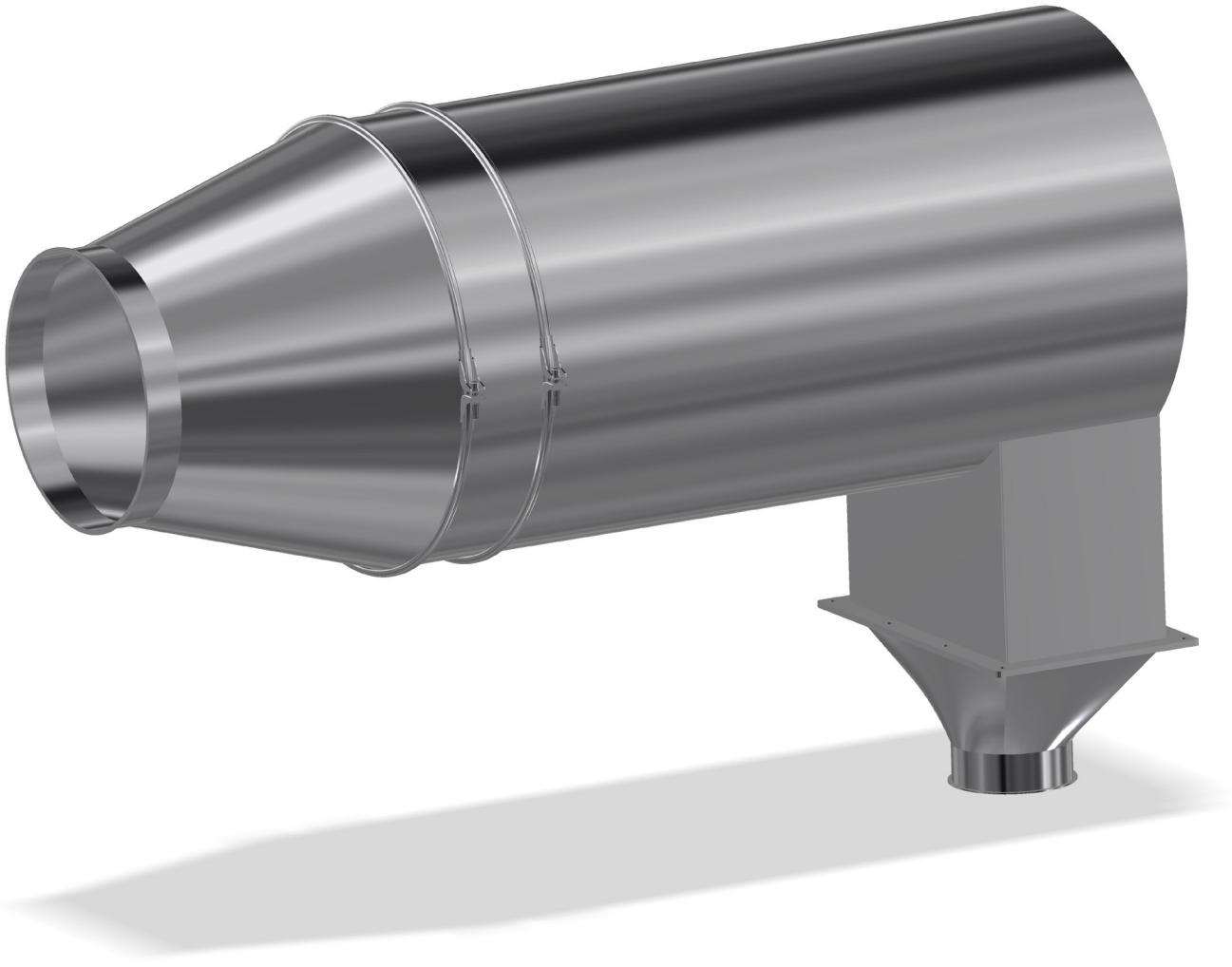
SYSTEMSEASY ASSEMBLY, A CLEAN RESULT: THE HORIZONTAL CYCLONE



JACOB

NO.1 IN PIPEWORK SYSTEMS

SPACE-SAVING, PRACTICAL, PERFECT

The patented horizontal cyclone from JACOB fits into almost every pipe system. Its design makes it easy to integrate with straight pipes. This makes it the first choice when retrofitting a cyclone. But it also proves its worth in new performance systems, where it reliably cleans the airflow of particles and sparks.

Ingeniously horizontal. For use in these applications:

These horizontal cyclones belong to the JACOB modular pipework system. They can be integrated into your system as required:

- As a pre-filter, to clean the air of dust particles, and thus extend the life of filter systems
- To separate large-volume, low-density particles, such as in the medical industry

Your advantages at a glance:

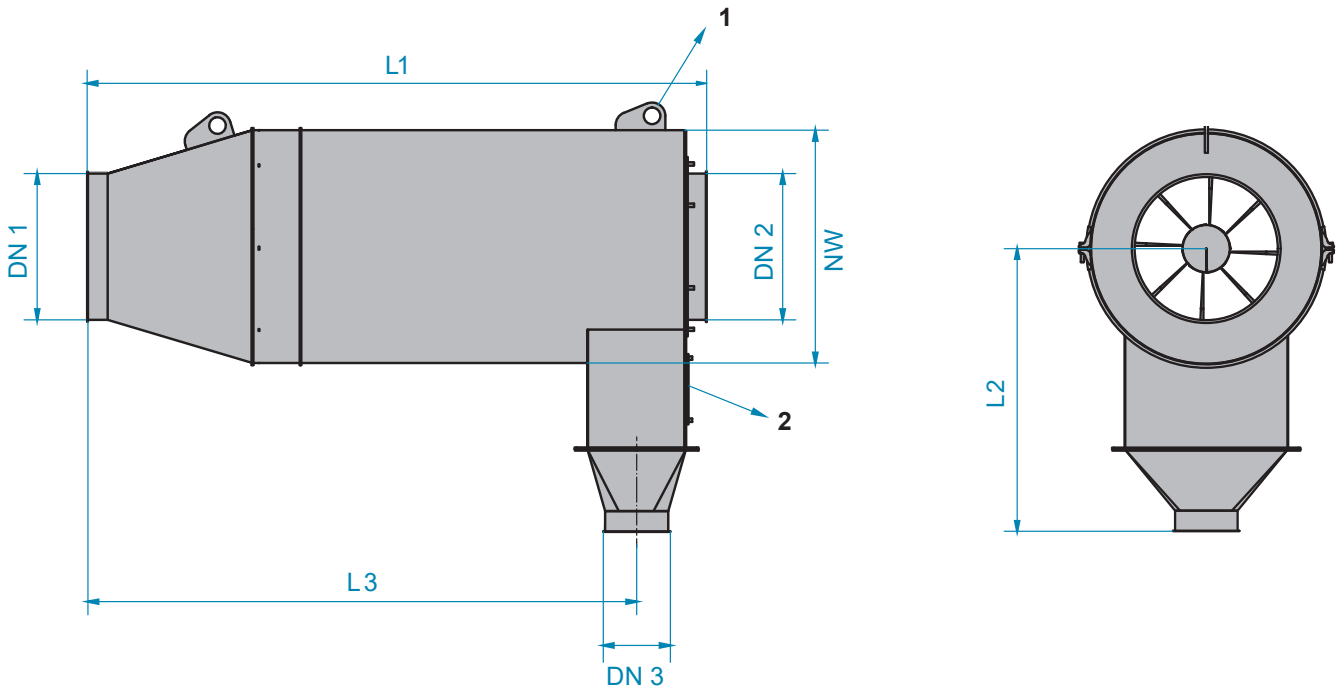
- Their elongated form is easy to integrate with straight pipes
- Their modular design makes light work of replacing worn components
- As passive components they do not require their own power supply
- Proven JACOB quality

Explanatory video about horizontal cyclone

Technical data (dimensions for 2.0 mm material thickness)
Powder-coated, galvanised or stainless-steel versions

DN 1	2 mm powder-coated	2 mm stainless-steel
	Art.-Nr.	Art.-Nr.
80	4201200812270	4201200832270
100	4201801012270	4201801032270
120	4202001212270	4202001232270
150	4202501512270	4202501532270
175	4203001712270	4203001732270
200	4203502012270	4203502032270
224	4204002212270	4204002232270
250	4204002512270	4204002532270
300	4205003012270	4205003032270
350	4205603512270	4205603532270
400	4206304012270	4206304032270
450	4207204512270	4207204532270
500	4208005012270	4208005032270
560	4210005612270	4210005632270
630	4210006312270	4210006332270
710	4212507112270	4212507132270
800	4214008012270	4214008032270

* Material thickness 3 mm



NW	DN 1	DN 2	DN 3	L 1	L 2	L 3	Volumetric flow m³/h	Pressure loss Pa
120	80	80	80	404	206	324	360	1050
175	100	100	80	496	239	408	560	1050
200	120	120	80	576	267	484	810	1050
250	150	150	80	696	359	594	1270	1050
300	175	175	150	796	394	686	1730	1050
350	200	200	150	896	429	777	2260	1050
400-1	224	224	150	976	457	850	2830	1050
400-2	250	250	150	1096	549	960	3510	1050
500	300	300	150	1296	619	1143	5080	1050
560	350	350	150	1496	689	1327	6900	1050
630	400	400	350	1692	807	1506	9050	1050
710	450	450	350	1892	877	1689	11450	1050
800	500	500	350	2092	947	1873	14100	1050
1000-1	560*	560*	350*	2332	1081	2092	17730	1050
1000-2	630*	630*	350*	2612	1179	2349	22450	1050
1250	710*	710*	350*	2932	1291	2642	28500	1050
1400	800*	800*	350*	3292	1517	2972	36200	1050

QUICK CONNECT

FOOD GRADE
EG/EC 1935/2004 plus FDA

DETECTABLE DESIGN

The new horizontal cyclone from JACOB combines reliable airflow cleaning with easy assembly. With its horizontal orientation, it is easy to integrate into existing pipework systems without requiring any further modification. Its intelligent design also facilitates the quick replacement of individual worn components. The horizontal cyclone is primarily used as a preseparator for filter systems or as a separator for lowdensity particles, such as in plastics processing. This makes the horizontal cyclone the ideal complement to our current range of vertical cyclones.

The basic principle is simple: An impeller sets the airflow in a rotating motion, and a constriction accelerates this rotation. Due to the centrifugal forces, particles are driven outwards, decelerated at the inner wall and extracted through the discharge. The clean airflow passes through the dip pipe into the downstream pipe system.

The horizontal cyclone is available in connection diameters from 80 to 800 mm for a volumetric flow of 360 to 36,200 m^3/h at an air velocity of 20 m/s

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