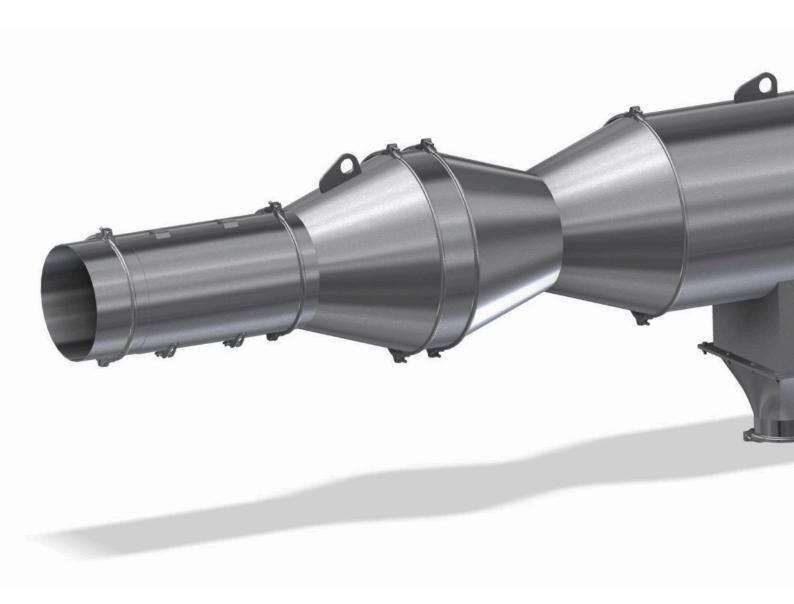
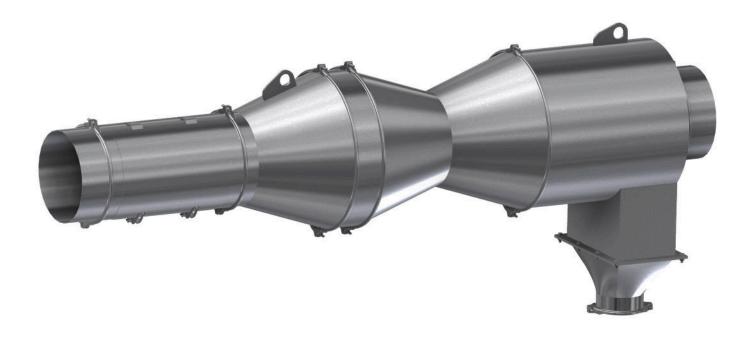
# EASY ASSEMBLY, A CLEAN RESULT: THE HORIZONTAL CYCLONE





## 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.

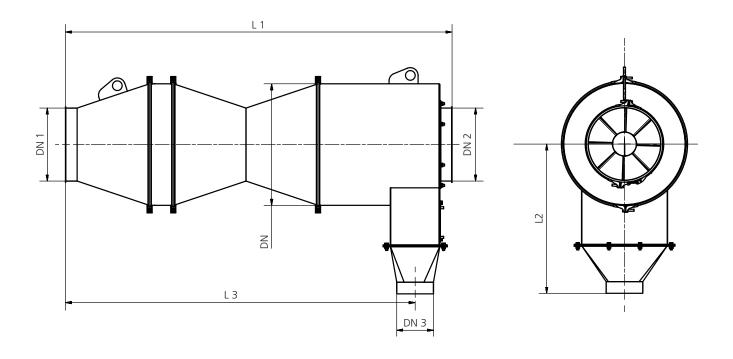
#### Ingeniously horizontal. For use in these applications:

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:

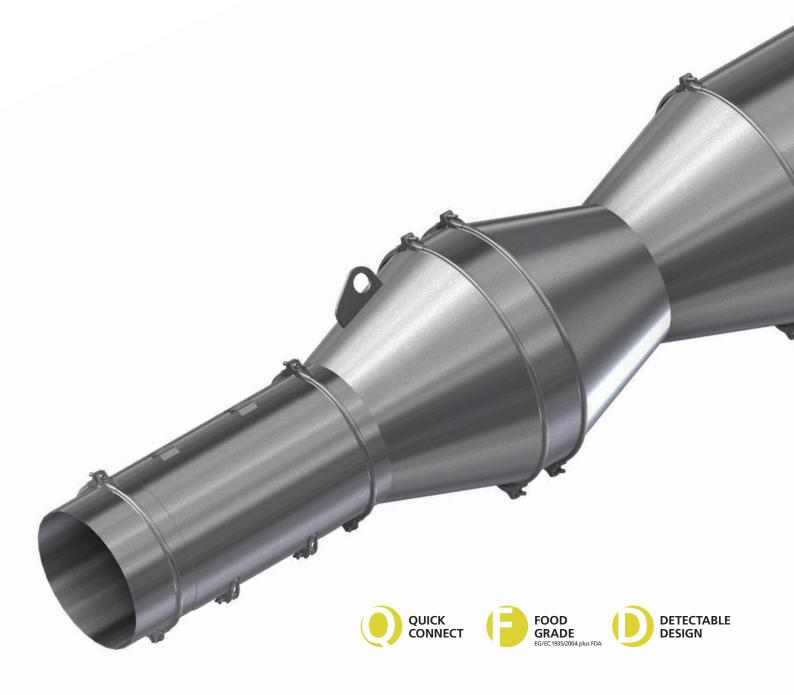
- Their elongated form is easy to integrate with straight pipes
- Their modular design makes light work of replacing worn components
- As passive components they do not require their own power supply
- Proven JACOB quality



### Horizontal cyclone (dimensions for material thickness 1.5 mm)

| DN   | DN 1  | DN 2 | DN 3 | L 1  | L 2  | L 3  | Volumetric flow m³/h | Pressure loss<br>Pa |
|------|-------|------|------|------|------|------|----------------------|---------------------|
| 125  | 80    | 80   | 80   | 480  | 205  | 405  | 360                  | 1050                |
| 180  | 100   | 100  | 80   | 600  | 240  | 515  | 560                  | 1050                |
| 200  | 120   | 120  | 80   | 700  | 270  | 610  | 810                  | 1050                |
| 255  | 150   | 150  | 80   | 850  | 360  | 750  | 1270                 | 1050                |
| 300  | 175   | 175  | 150  | 975  | 395  | 865  | 1730                 | 1050                |
| 355  | 200   | 200  | 150  | 1100 | 430  | 980  | 2260                 | 1050                |
| 400  | 224   | 224  | 150  | 1200 | 460  | 1075 | 2830                 | 1050                |
| 400  | 250   | 250  | 150  | 1350 | 550  | 1215 | 3510                 | 1050                |
| 500  | 300   | 300  | 150  | 1600 | 620  | 1450 | 5080                 | 1050                |
| 560  | 350   | 350  | 150  | 1850 | 690  | 1680 | 6900                 | 1050                |
| 630  | 400   | 400  | 350  | 2095 | 810  | 1910 | 9050                 | 1050                |
| 720  | 450   | 450  | 350  | 2345 | 880  | 2145 | 11450                | 1050                |
| 800  | 500   | 500  | 350  | 2595 | 950  | 2375 | 14100                | 1050                |
| 1000 | 560   | 560  | 350  | 2900 | 1080 | 2660 | 17730                | 1050                |
| 1000 | 630 * | 630* | 350* | 3250 | 1180 | 2990 | 22450                | 1050                |
| 1255 | 710 * | 710* | 350* | 3655 | 1290 | 3365 | 28500                | 1050                |
| 1400 | 800 * | 800* | 350* | 4585 | 1515 | 4260 | 36200                | 1050                |

<sup>\*</sup>Material thickness 2 mm



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 pre-separator for filter systems or as a separator for low-density 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 m³/h at an air velocity of 20 m/s.

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