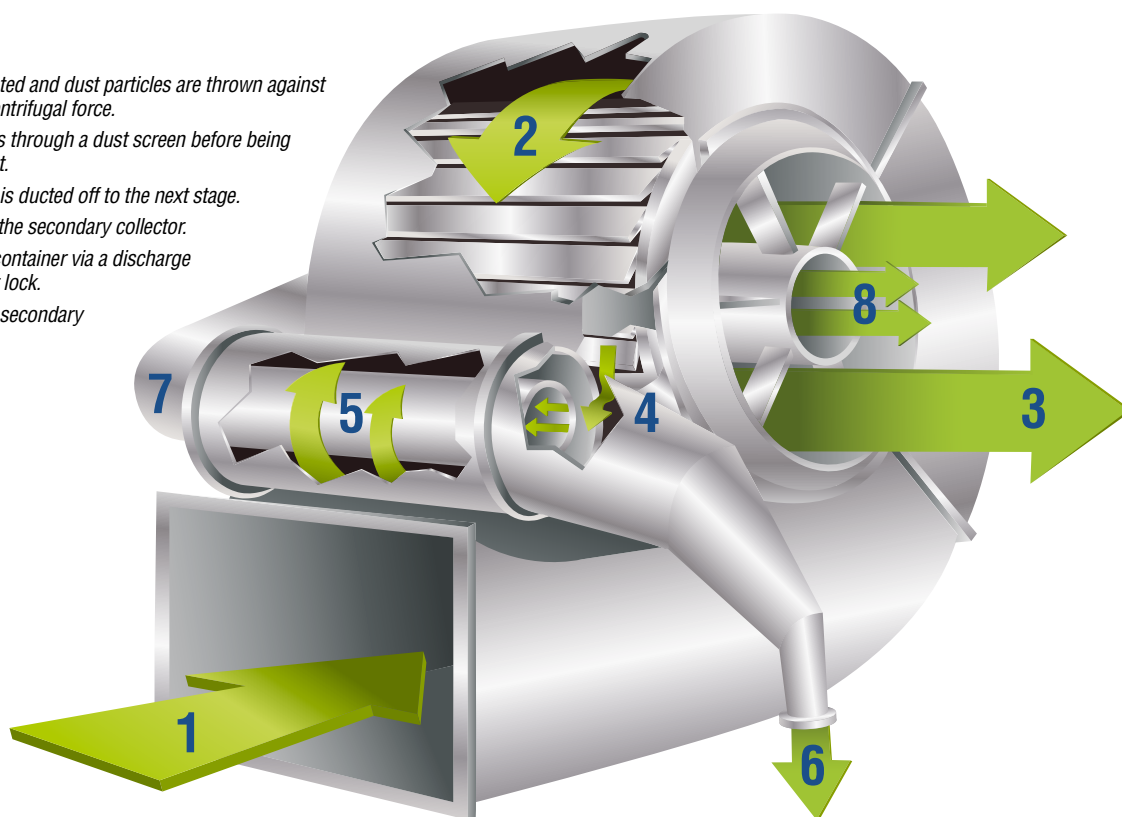


# TORNUM Centrikon Dust Separator

1. Dusty air intake.
2. The airstream is rotated and dust particles are thrown against the casing wall by centrifugal force.
3. The airstream passes through a dust screen before being re-linked to the outlet.
4. Remaining dusty air is ducted off to the next stage.
5. Dust is separated in the secondary collector.
6. Dust is passed to a container via a discharge cone and a rotary air lock.
7. Clean air leaving the secondary separator.
8. Clean air outlet.



## High capacity in a compact format

**TORNUM Centrikon** has been designed to effectively separate solid particles from the air in grain treatment applications. Working by centrifugal force and inertia action, dust collection is highly efficient, leaving less than 50 mg/m<sup>3</sup> particulate emissions in the processed air. The Centrikon can be included in any system where cyclones are used and is easy to install, thanks to very compact dimensions throughout its size range.

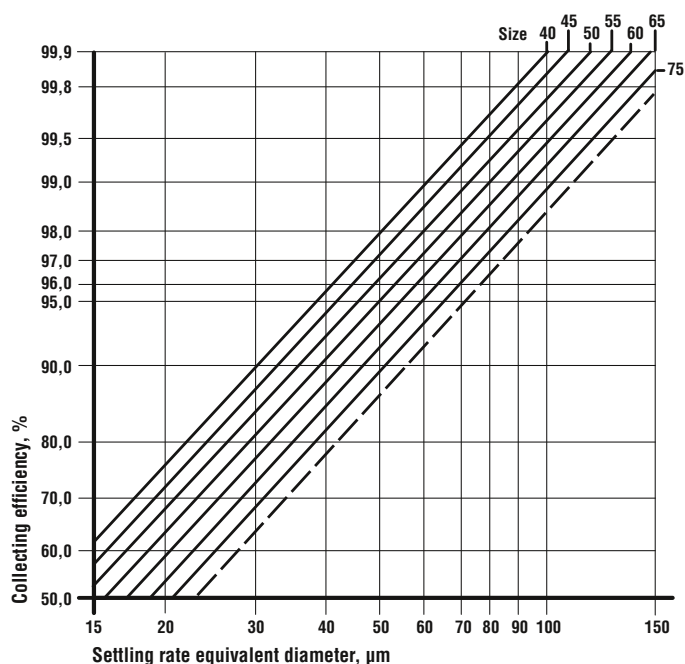
## A reliable design – easy to install and maintain

- Robust, fully welded design with no moving parts in the separator ensures high operational reliability
- 6 different installation arrangements possible – easy to fit in existing applications.
- Low maintenance – one monthly inspection and cleaning is sufficient.
- Easy access for cleaning on both sides.
- Inspection windows as standard.
- Excentric locking on secondary duct and draining cone for quick removal when servicing.
- Available in 7 sizes.





**COLLECTING EFFICIENCY**



The chart above is applicable at an inlet velocity of 18 m/s and a dust concentration of 5 g/m<sup>3</sup>. At a velocity of 12 m/s, use the next line on the right. The settling rate equivalent diameter of a particle is the diameter of a sphere with a density of 1 g/cm<sup>3</sup> which, in air at 20 °C and 1013 bar (760 mm Hg), has the same falling velocity as the relevant particle.

**WEIGHTS (kg) AND MEASUREMENTS (mm)**

Size	A	B	C	D	E	F	G	Weight	Min. < Air flow > Max.			
									m <sup>3</sup> /s	m <sup>3</sup> /h	m <sup>3</sup> /s	m <sup>3</sup> /h
CDS 40	900	450	1620	570	1037	446	330	355	5,0	18 000	6,7	24 000
CDS 45	1000	500	1808	640	1167	532	375	435	6,1	22 000	8,3	30 000
CDS 50	1100	550	1991	720	1282	600	405	495	7,5	27 000	10,0	36 000
CDS 55	1200	600	2179	810	1402	660	410	575	8,6	31 000	12,5	45 000
CDS 60	1300	650	2370	910	1542	710	445	660	10,0	36 000	14,4	52 000
CDS 65	1400	700	2561	1010	1672	750	480	760	12,2	44 000	17,8	64 000
CDS 75	1600	800	2944	1260	1933	916	525	1180	15,3	55 000	23,6	85 000

