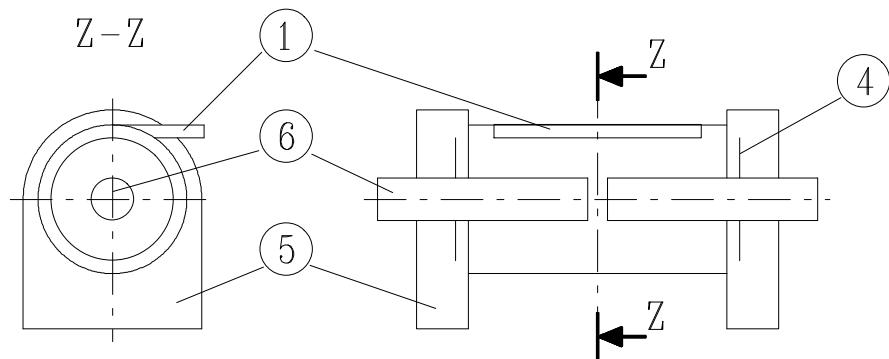


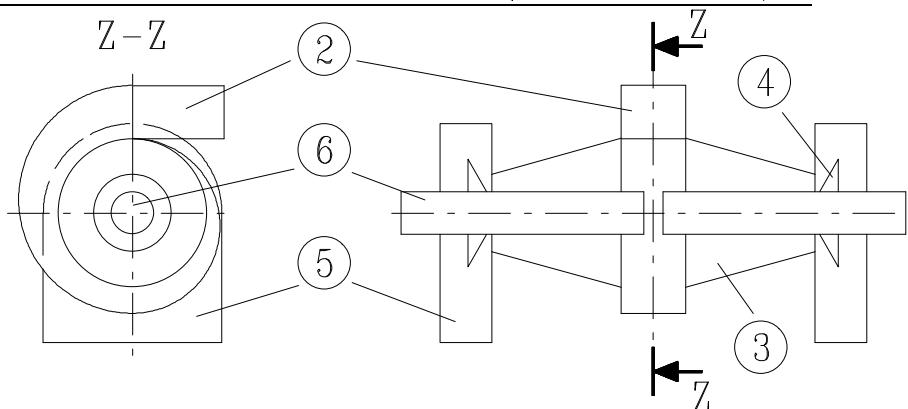
Separation performance of cyclones ZA and ZS — experimental investigations

Symmetrical vortex chamber ZA :



Diameter of vortex chamber	250	1000	4000	[mm]
cut-off particle diameter x_{50}	0.6 - 1.2	1.8 - 3.0	3.5 - 8.0	$[\mu\text{m}]$
gas volume flow rate \dot{V}_F	0.2 - 0.4	3.2 - 6.4	50.0 - 100.0	$[10^3 \frac{\text{m}^3}{\text{h}}]$
pressure loss Δp	0.5 - 2.0	0.5 - 2.0	0.5 - 2.0	$[10^3 \text{ Pa}]$

Symmetrical double cyclone ZS (spiral inlet) :



Diameter of vortex chamber	250	1000	4000	[mm]
cut-off particle diameter x_{50}	0.3 - 0.5	0.8 - 1.2	1.8 - 3.0	$[\mu\text{m}]$
gas volume flow rate \dot{V}_F	0.2 - 0.4	3.2 - 6.4	50.0 - 100.0	$[10^3 \frac{\text{m}^3}{\text{h}}]$
pressure loss Δp	0.5 - 2.0	0.5 - 2.0	0.5 - 2.0	$[10^3 \text{ Pa}]$