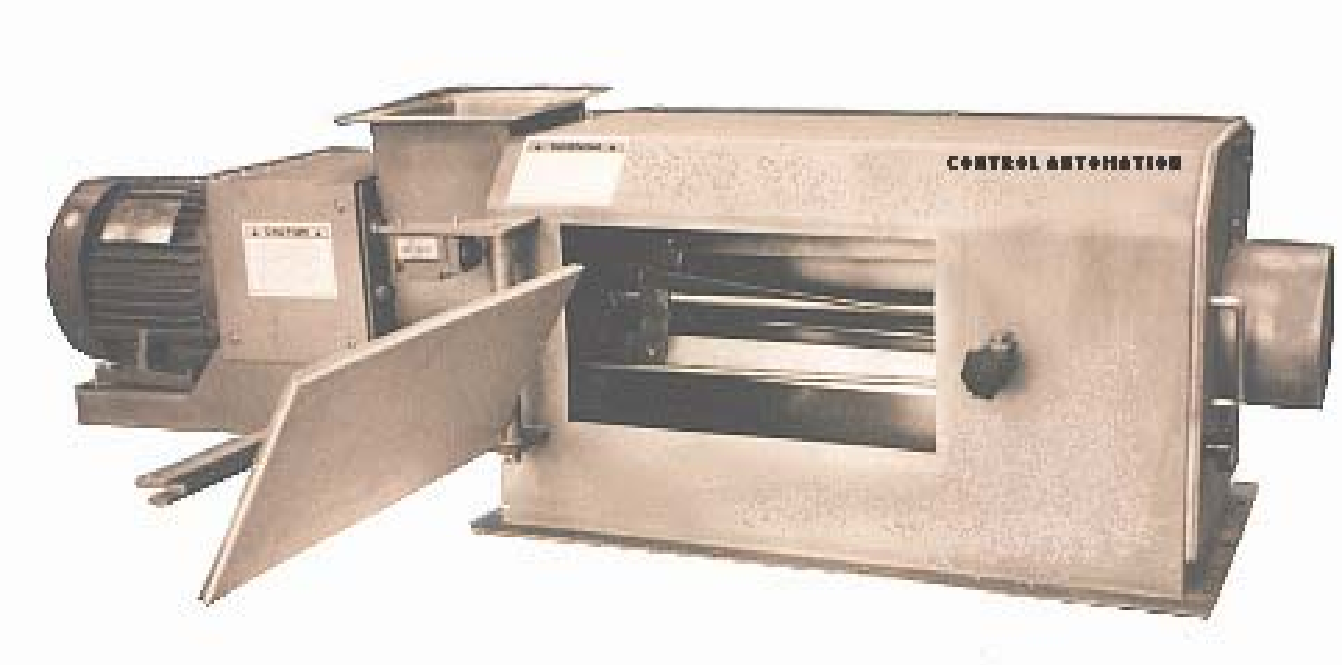
Centrifugal Sifter

The CONTROL AUTOMATION Centrifugal sifter is designed to handle a wide variety of food, chemical and mineral products. Centrifugal sifters are primarily used to sift oversize out of product. Featuring high efficiency separation and high capacity throughput, the sifters have an easy clean design with partial disassembly without tools for access. Robust construction with self aligning inspection doors to ensure dust tight sealing. Screen assemblies can be easily and quickly replaced.

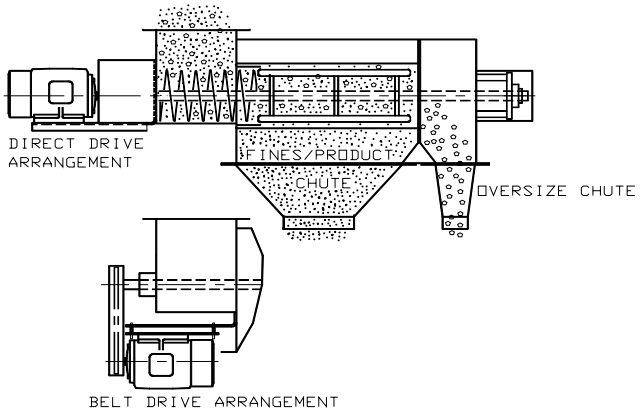


APPLICATIONS

- **Controlled sieving of powder and granular products.**
- **Classification.**
- **Removal of lumps and foreign matter.**
- **Deagglomeration.**

OPERATION

Horizontal centrifugal sifter construction comprises a stationary horizontal cylindrical sieve, an internal rotating shaft fitted with screw flights at the product inlet and a series of paddles along the sieve length. In operation, material to be sifted is fed into the sifter inlet feed box. The product is then uniformly fed into the stationary horizontal cylindrical sieve by means of the screw section.The paddles then centrifugally force the fines material against and through the screen. Soft agglomerates are broken up by the paddle action, whilst oversize particles pass out the end of the screen. Adjustable weirs control the flow of oversize and retention time in the sifter.



STANDARD FEATURES

- Fully welded housing.
- Large, flat inspection door. Self aligning to provide optimum dust sealing.
- Feed screw gives controlled feed into screen area.
- Rotating paddle assists to break up soft lumps.
- Bearings outside product zone.
- Screen assembly can be easily removed for cleaning without tools.
- Totally enclosed, dust free operation.
- High capacity with low noise.
- Oversize chamber for easier cleaning and maintenance.
- Wide range of screen sizes.
- Self cleaning screens.
- In line or optional vee belt drive.
- Stuffing box seal on drive end.
- Available in mild steel or stainless steel. Non sanitary or sanitary construction.

OPTIONS

- Air purge seals.
- Fines and oversize hoppers.
- Extended inlets and outlets.
- Hazardous area motors

Model	Total Length mm	Height Body only mm	Width mm	Weight kg approx	Motor kW
DCS 60	1250	450	450	100	0.55
DCS 200	1650	450	450	125	2.2
DCS 400	1700	550	550	145	2.2
DCS 800	2000	750	750	270	4.0

CONTROL AUTOMATION Pty Ltd

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CONTROL AUTOMATION ROTARY SIFTER

The "DCS" models are a new generation of rotary sifters which retain the features associated with most rotary sifters including;

* **High efficiency, high capacity sieving**
* **Robust construction**
* **Easy clean design**
* **Self cleaning screens**
* **Quick change screens**
* **No special tools required for maintenance**
* **Dust, noise and vibration free sieving**

With additional features including;

* **Electrical interlocking of cleaning door as standard**
* **Exceptional capacity**
* **New positive seal, cleaning door design**
* **Greater installation adaptability**
* **Continuity of mechanical spare parts**

Typical Specification:

Body Construction: Stainless steel or mild steel casing with built in oversize outlet chamber and quick removal end cover for shaft assembly and screen removal. Adjustable oversize covers for greater retention time.

Cleaning: Hinged side door, self aligning with full face seal is provided. A safety limit switch is provided to allow isolation of equipment when door is open.

Screen: High efficiency perforated metal screen with high percentage open area. Nominal hole diameters from 1mm to 25mm.

Shaft Assembly:

Shaft: Stainless steel or mild steel shaft supported on self aligning bearings. Fitted with removable contoured blades to promote product flow over whole screen area and to assist to break of soft lumps.

Feed Screw: Controlled feed into sifter by short 150mm dia spiral to improve sifting efficiency.

Shaft Seals: Double seals, (air purge optionally available).

Drive: Direct drive through a foot mounted TEFC motor and flexible coupling. (Vee belt drive available as an option).

Fines Hopper: Stainless steel or mild steel converging fines hopper with outlet spigot, gasketted and bolted to underside of the sifter body.

Oversize Hopper: Stainless steel or mild steel converging oversize hopper with outlet spigot, gasketted and bolted to underside of the sifter body

Surface Finish: Standard finish for stainless steel consists of bead blasted exterior and 2B natural finish internally. All internal welds to be dressed and strip polished to 180 grit or better.
Mild steel construction can be painted with wet enamel or blast cleaned and painted with two pack epoxy base paint according to application.

Options: Other options are available including

* Epoxy resin lined product contact areas.
* Polished interior to 180 grit.
* Full dairy specification
* Polycarbonate viewing panels in cleaning door
* Hazardous area electrics

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