

DECANTER CENTRIFUGES & PLANTS FOR SOLID/LIQUID SEPARATION



Drive solutions for decanters

DRIVE SOLUTIONS FOR DECANTERS

Hiller decanter centrifuges consist fundamentally of a rapidly rotating bowl for generating high centrifugal forces and a screw conveyor that clears the solid material in the bowl.

The requirement for the screw conveyor is to generate a high torque at a lower differential speed in relation to the bowl.

Hiller offers 5 DRIVE SYSTEMS that fulfil these requirements. All drive systems are also available for applications in EX zone.

BENEFITS

- Very good ease of operation
- Permanent display of all important operating data
- Individually programmable control response
- Clear interface between centrifuge and plant
- Remote monitoring possible

FIXED GEARS

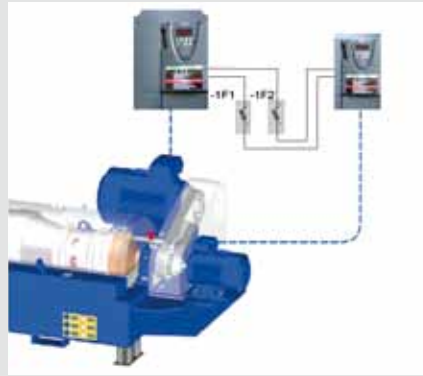


BOWL DRIVE:
Electric motor with frequency converter control; bowl drive via V-belt

SCROLL DRIVE:
Generation of the differential speed with planetary gears, driven via V-belt;

Bowl and scroll drives are coupled together

DECA-DRIVE



BOWL DRIVE:
Electric motor with frequency converter control; bowl drive via V-belt

SCROLL DRIVE:
Electric motor with frequency converter control; generation of the differential speed with planetary gears;
Power supply to the scroll frequency converter via intermediate circuit;

Scroll speed dependent on bowl speed

FSG-DRIVE



BOWL DRIVE:
Electric motor with frequency converter control; bowl drive via V-belt

SCROLL DRIVE:
Electric motor with frequency converter control; generation of the differential speed with FSG gears;

Bowl and scroll drives are decoupled

HYDRAULICS



BOWL DRIVE:
Electric motor with frequency converter control; bowl drive via V-belt

SCROLL DRIVE:
hydraulic motor and hydraulic unit supplied via rotary connector;
optional frequency converter controlled, energy efficient unit;

Bowl and scroll drives are decoupled

FULLY HYDRAULIC



BOWL DRIVE:
hydraulic motor supplied via rotary connector; driven by V-belt

SCROLL DRIVE:
hydraulic motor supplied via rotary connector;
One hydraulic unit (fully hydraulic)

Bowl and scroll drives are decoupled

SEE-CONTROL

All Hiller drive systems are equipped with the SEE-Control electronic control system that has a 7.5 inch infrared touch display. This permits the control of the entire centrifuge, including all electronic instruments.

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