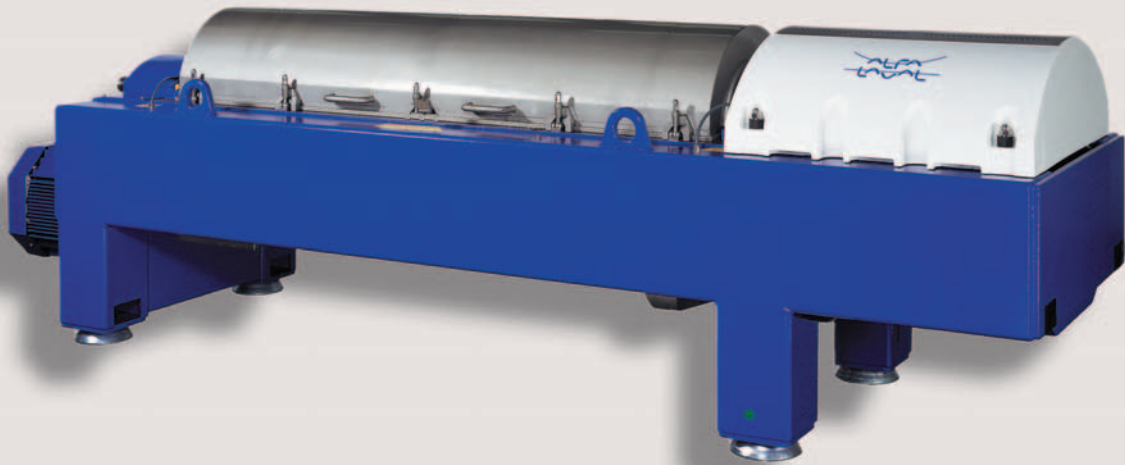




LYNX 40

Decanter centrifuge for solids control



Applications

For drill solids removal, high-speed separation, barite recovery, system de-weighting and ultrafines removal.

Optimizing drilling fluids

The Alfa Laval decanter centrifuge is a key component in a top-quality solids control process. This efficiently removes most of the fine particles that traditional solids control equipment cannot catch. Built for heavy-duty jobs, the Alfa Laval decanter handles large amounts of feed solids as well as being able to cope with abrasive and coarse particles.

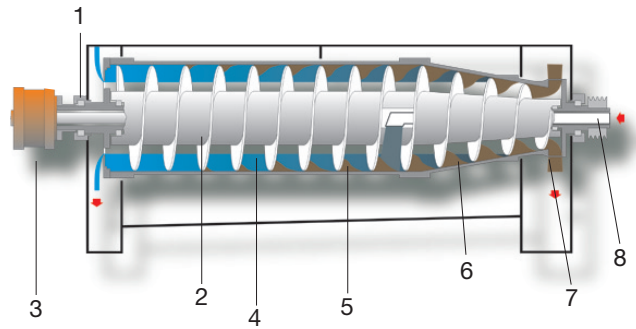
The Alfa Laval drilling fluids decanter is available with a range of modules suited for every decanter job on a drilling rig.

These range from fully automated modules to simple "hands-on" modules, providing effective solutions to your solids control separation problems.

Take advantage of the LYNX technology

- Torque control
- Greater solids recovery
- Higher G-Force
- Increased centrate clarity
- More efficient particle separation
- Specially designed bowl geometry
- Various power pack designs to suit the operation
- Reduced waste volumes
- A 360-degree solids outlet completes the concept

Cutaway view



- 1) Main bearing
- 2) Screw conveyor
- 3) Gearbox
- 4) "Pond" of clarified liquid
- 5) Solids deposited on bowl wall
- 6) Tapered beach section of bowl for discharge of solids
- 7) Erosion protected solids discharge ports
- 8) Hollow drive shaft with stationary feed tube

Principle of operation

Alfa Laval's LYNX 40 has a decenter centrifuge which features a slender cylindrical/conical bowl with a relatively large length/diameter ratio. The screw conveyor, which is fitted inside the bowl, enables the continuous removal of separated solids.

Typical bowl speeds are up to 3650 rpm where the "G" force is designed to anywhere from 300 to 3574 G.

Process liquid is fed into the cylindrical section, where it forms a layer - the pond - around the wall. The thickness of this layer is established by a series of discharge weirs at the

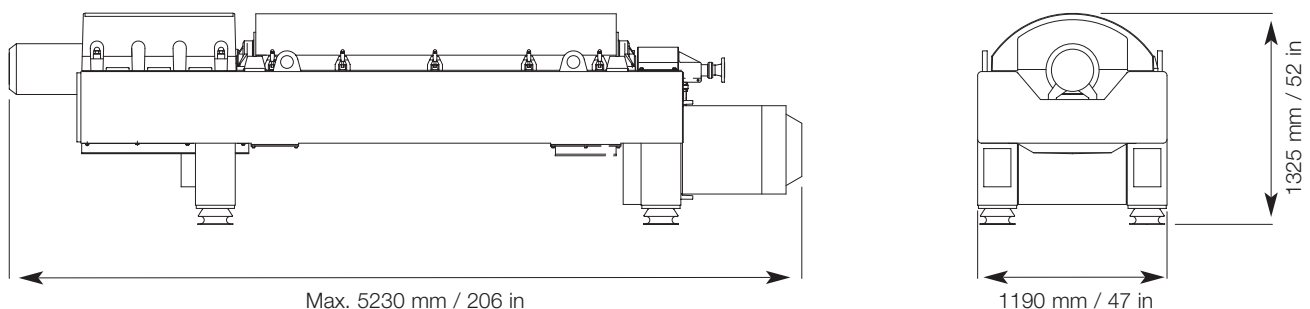
end of the cylindrical section, and over which the clarified liquid is decanted aided by centrifugal force. Since solids are heavier, they are plastered against the bowl wall, from where they are continuously removed by the screw conveyor and transported up the conical section - the beach - and out through the discharge ports at the narrow end. At this point, the discharged sediment falls into an external screw conveyor that transports the solids to a skip specially designated for collection and disposal. Clarified liquid is collected in the tank and transferred by the effluent transfer pump back to your clean product holding tank.

Technical data

Maximum hydraulic flow rate*:	100 m ³ /h (440 GPM)
Max. speeds with:	(1,800 kg/m ³ wet solids) 3,300 rpm (2,900 G)
	(2,500 kg/m ³ wet solids) 2,800 rpm (2,100 G)
Maximum speed	3,650 rpm
Centrifugal force up to	3,574 G
Differential speed range	2-40 rpm
Solids capacity	Up to 12 ton/h (26,000 lbs/h)
Main power	90 kW (125 Hp)
Back drive power	15 kW (20 Hp)
Dry weight decenter unit	5,000 kg (11,000 lbs)
Operating weight	5,500 kg (11,110 lbs)

* The operating flow rate depends on the individual properties of the feed and the separation result required.

Dimensions



PEE00071EN

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com/oilandgas