

System Features



Motor, Hydraulic Components, and fluid tank engineered into base structure.



Main drive V-belt inline position ensures continuous performance and tension.



Dedicated breather unit prevents dust from entering fluid tank.



Onboard Push Button Explosion Proof Control Panel with Display Screen

Designed with Performance and Operator-Friendliness in Mind

Elgin's Apex 14FHD™ electronically-controlled, hydraulic-driven decanter centrifuge is fitted with a NEMA premium, continuous duty, 75hp main drive motor coupled to a variable speed hydraulic, dual displacement, pump that powers a hydraulic variable speed motor. The hydraulic motor can operate the centrifuge from 100 to 3,400 rpm, therefore generating more than 2,100 G's of force. Using an inclined motor mount, belt maintenance is made easy by the adjustment of two jack screws. No additional motor mounts, brackets or tensioning devices are required.

Featuring a 125:1 planetary gearbox which generates an industry-leading speed differential, which ultimately translates into a larger performance window. This performance window is what grants the Apex 14FHD™ maximum flexibility when managing the cut-point and the moisture content of discharged solids.

Onboard hydraulic fluid reservoir, desiccant breather, heat exchanger, and dedicated pressure gauges to monitor speed increase, speed decrease, oil and charge pressure ensures maximum performance of hydraulic operations.

System operation is managed with a Type 7 explosion proof push-button control panel with built-in a LCD display screen. Featuring safety interlocks and sensors designed to protect the system in the event pillow block bearing temperature increase, abnormal vibration, over torque conditions and hydraulic pressure loss. Internal variable frequency drives allow the operator to control the material feed rate and rpm's to achieve maximum performance.

When it comes to optimal operation performance, it is key to integrate safety interlocks to prevent equipment malfunction during operation. Elgin centrifuges are equipped with a host of premium industry-standard safety interlocks.



| Model Number | Apex 14FHD™ |
|----------------------|---|
| Description | Electronically-Controlled, Hydraulic-Driven Decanter Centrifuge |
| Maximum G-Force | 2,100 G's |
| Maximum Speed | 3,400 rpm |
| Processing Capacity* | 200 gpm (12.6 lps) |
| Bowl Construction | Stainless Steel |
| Bowl Diameter | 14" (356 mm) |
| Bowl Length | 49.5" (1,257 mm) |
| Gearbox Ratio | 125:1 |
| Fluid Tank Capacity | 65 Gallons (246 Liters) |
| Weight | 11,000 lbs (4,990 kgs) |
| Dimension | 10' (3.0 m) L x 6.6' (2.0 m) W x 5.5' (1.7 m) H |

* Noted processing capacity is based on water. Flow capacity varies based on drilling fluid weight.