



IDEC 2080 'ECHO' VFD DECANTER CENTRIFUGE



The 2080 'Echo' decanter centrifuge is manufactured utilizing the highest quality materials and state of the art manufacturing techniques.

The 20" x 80" rotating assembly is constructed entirely of 2205 Duplex stainless steel and is dynamically balanced to the applicable ISO standards to ensure reliable operation in demanding high speed applications.

IDEC centrifuges come standard with tungsten carbide tile throughout the length of the feed zone and with the balance of the conveyor flight protected with tungsten hard face.

The solids discharge area features field replaceable tungsten carbide protection with integral tungsten carbide solids wiper plow. The feed chamber is equipped with a replaceable tungsten hard-faced accelerator chamber and tungsten carbide feed nozzles.

The unit is designed with safety devices for vibration, over torque, cover open for shutdown safety compliance.

PERFORMANCE SPECIFICATIONS

- Dynamically Balanced 2205 Duplex Stainless Steel Rotating Assembly
- Max Bowl Speed of 3550 rpm with 3578 G's.
- 7.1Knm Gearbox
- 150 HP Main Drive Motor
- 40 HP Back Drive Motor
- Tungsten Carbide Replaceable Wear Components
- Spring Assist Cover

FEATURES

- VFD/ HMI Control Panel
- No A/C or Purged Air Required
- PLC Real Time Controller
- C1/ Zone 1- 15" Colour Touch Screen
- Optional Communication Package with Remote Accessibility Through Secured VPN

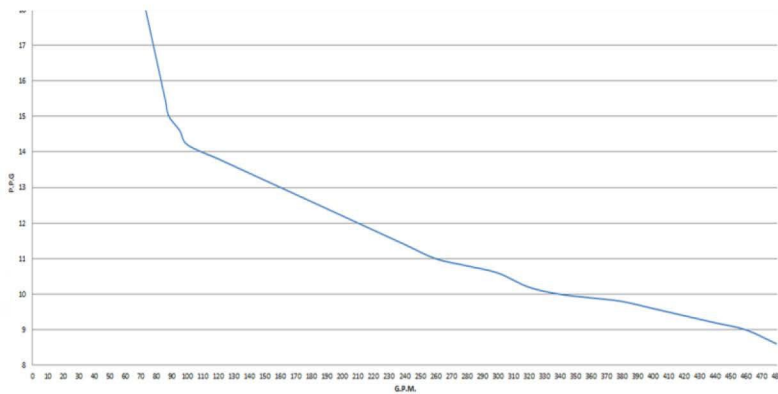
Gearbox	Option 1	Option 2
Max Output Torque	6.0 kNm (4425 lbf.ft)	7.1kNm (5240 lbf.ft)
Max Input Torque (trip out torque)	41.7 Nm (314lbf.in)	130Nm (1150lbf.in)
Gearbox Ratio	144:1	55:1
Differential	Min 5 rpm : Max 40 rpm	Min 10 rpm : Max 80 rpm

Bowl Speed (Rpm)	Max Density	G Force	Sigma Value
2400	2500 kgm ³ / 156 lbf ³	1635	3345 m ² / 36005 ft ²
2700	2500 kgm ³ / 156 lbf ³	2070	4233 m ² / 45563 ft ²
3250	1800 kgm ³ / 112 lbf ³	3000	6134 m ² / 66026 ft ²
3550	1400 kgm ³ / 87 lbf ³	3578	7318 m ² / 78770 ft ²

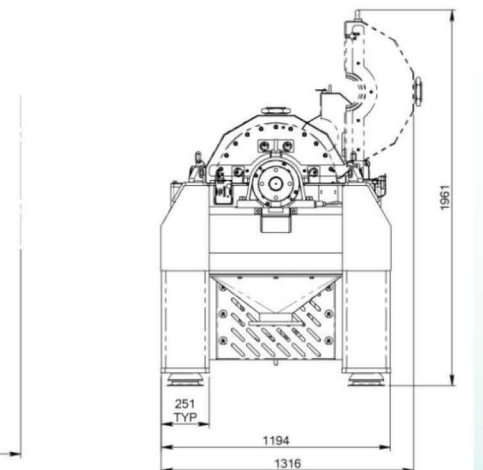
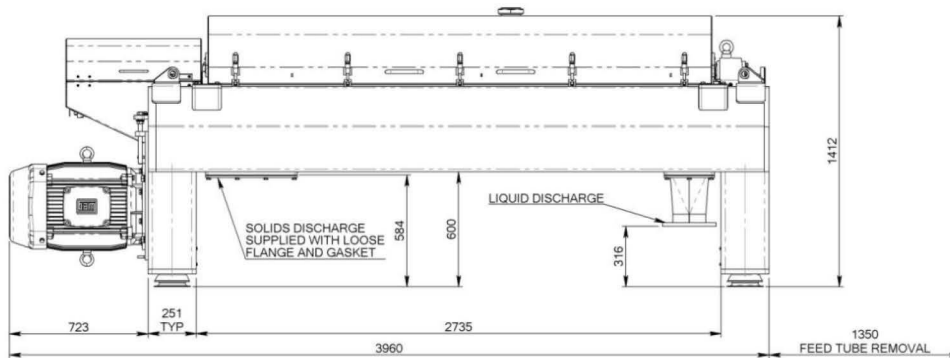


Additional safety features built into the VFD Control System:

- Over/Under Voltage
- Over Amperage
- Motor PTC Motoring
- Temperature Controls
- E-Stop Monitoring
- Multiple Drive/VFD Failure monitoring



Centrifuge Only	
Length	3960 mm
Width	2134 mm
Height	1961 mm
Weight	4763 kg



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