



# Kayden Mammoth-2276

(2500 L/min) is specifically designed for handling oilfield solids control requirements.



## Superior Solids Control

Kayden Industries specializes in helping Exploration and Environmental companies improve the **drilling performance** of their projects by utilizing our high volume centrifuges that:

- Maximize ROP
- Process 100% of hole volume
- Decrease mud disposal costs
- Reduce mud maintenance cost
- Mimimize drilled solids concentration

Mammoth Highlights	
Capacity	Water (hydraulic) – 2500 L/min. (650 gpm) Mud (unweighted) – 2000 L/min. (525 gpm)
Nominal Cut Point	5–10 micron (based on drilling fluids rheology)
Nominal Retention Time	5 Seconds
Feed Tube I.D.	2.5"

The larger bowl allows for the same amount of liquid retention time, along with the higher throughput.

\*These machines are manufactured and serviced by KAYDEN Industries directly.  
\*Stainless Steel rotating parts are assembled with (tungsten carbide hard surfacing and variable pitch conveyor).

The newly designed gearbox, the KHT-125, provides an output torque of 125,000 in/lb in comparison to a typical oilfield centrifuge gearbox with an output torque of only 30,000 to 53,000 in/lbs.

The larger output torque of the KHT-125 gearbox translates directly into the increased volume of solids that our centrifuge can remove at any one time. This is especially critical when dealing with weighted muds where the volume of solids that need to be removed is much higher, and requires more torque from the centrifuge.



The KHT-125 gearbox has a ratio of 96:1. This ratio increases the solids retention time in the centrifuge, resulting in a drier discharge of solids.

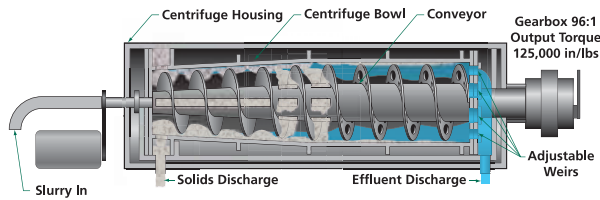
## Safety Improvements

The unitized design of the KDX 2276 is safer and easier to setup. The guardrails always remain in position, and personnel are never required to be on or under the machine when setting up.



# Mammoth-KDX 2276

## Operation of the Mammoth Centrifuge



Technical Specifications for the Mammoth	
Specifications:	Model KDX 2276
Bowl Dimensions:	22" x 76" (560 mm by 1930 mm)
Main Drive:	100 HP – Variable Speed
Nominal RPM:	1800
Nominal G Force:	1012
Capacity:	Water (hydraulic) – 2500 L/min (650 gpm). Mud (unweighted) – 2000 L/min (525 gpm).
Feed Pump:	4" x 3" Mission Magnum c/w mechanical seal
Conveyor:	Single lead, tungsten carbide hard-surfaced
Gearbox:	96:1 (125,000 in/lbs)
Beach	6 degree: 825 mm length (32.5 in)
Stand and Height:	Unitized and telescoping from 2.5m to 5m (8 ft – 16 ft)
Weight:	7272 kg (16,000 lbs)
Dimensions for Travel:	Length: 503 cm (16.5') Width: 320 cm (10'6") Height: 195.6 cm (77") to top of cover. 320 cm (10' 6") to top of legs
Electrical Requirements:	480 V 3 Phase: 1 – 100 amp 3W4P plug
Feed Tube I.D.	2.5"

## Features and Benefits

- A high capacity 22" x 76" bowl, coupled to a Kayden designed 96:1 ratio, planetary gear box delivering 125,000 in. lbs. output torque, driven by a 100 HP motor with variable speed control.
- A hydraulic capacity of 2500 L/min.
- Stainless steel for specific high wear parts and for the case enclosing the bowl.
- Four vibration mounts isolating the bowl carrier frame. These protect the main bearings during transport and ensure quiet operation.
- Adjustable stand allows for proper operational centrifuge height to enhance solids and liquid gravity discharge.
- A stand that is an integral part of the centrifuge. For safety, the guardrails always remain in position, and personnel are never required to be on, or under, the centrifuge during placement or extension.
- A remote electrical control panel that can be placed within 75' of the centrifuge.
- A 4" x 3" centrifugal feed pump powered by 20 HP motor.
- A 'torque out' reset that eliminates the mechanical shear pins.

