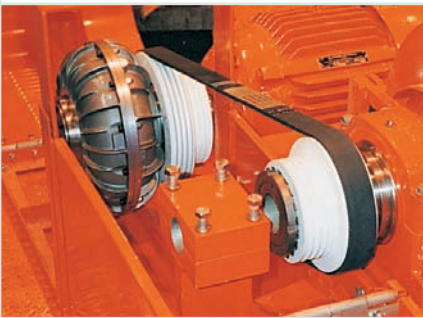


# 518 CENTRIFUGE

The M-I SWACO 518 CENTRIFUGE\* is the premier high-speed, decanting centrifuge for drilling-mud and fluids-handling applications. Ruggedly built for oilfield and industrial service, it is especially effective in environmentally sensitive areas. It delivers high fluid-recovery rates and efficient solids control to significantly reduce the costs of makeup fluids and disposal. The M-I SWACO 518 CENTRIFUGE is precision-balanced for smooth operation over long periods at speeds of 1,900 to 3,250 RPM, generating centrifugal forces up to 2,100 G's.



## Features and Benefits

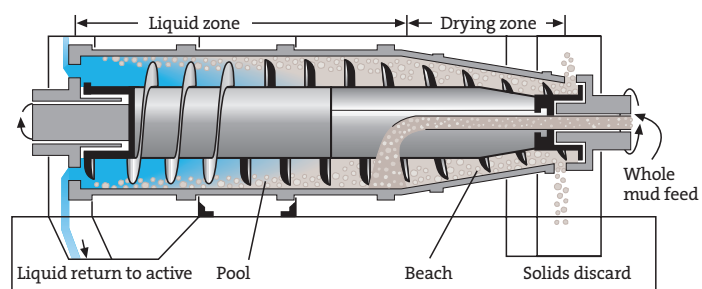
- Innovative design includes longer bowl for increased retention time, resulting in drier solids and finer cut points
- Tungsten carbide scroll points with wide spacing flights at tapered end create a finer layer of conveyed solids for consistent, uniform separation and maximum solids-control efficiency
- Stainless steel bowl, scroll, compartment and cover resist corrosion and provide long service life
- Precision balanced to run at high RPMs for extended periods with greater efficiency, minimizing maintenance and downtime
- Skid mounted, low profile minimizes space requirements
- Effectively removes the finest silts and returns valuable fluids for reuse
- Reduces makeup fluids, dilution, cleanup and disposal costs
- Ideal for any solids-control application; especially valuable in environmentally sensitive areas
- Rugged construction and corrosion-resistant materials provide long service life and low maintenance costs in the toughest oilfield environments
- Works efficiently with other M-I SWACO equipment to maximize solids control

## How it works

The heart of an M-I SWACO centrifuge is its high-speed, precision-balanced rotating stainless-steel bowl. Inside the bowl, a double-lead spiral-screw conveyor rotates in the same direction as the bowl but at a slightly slower RPM.

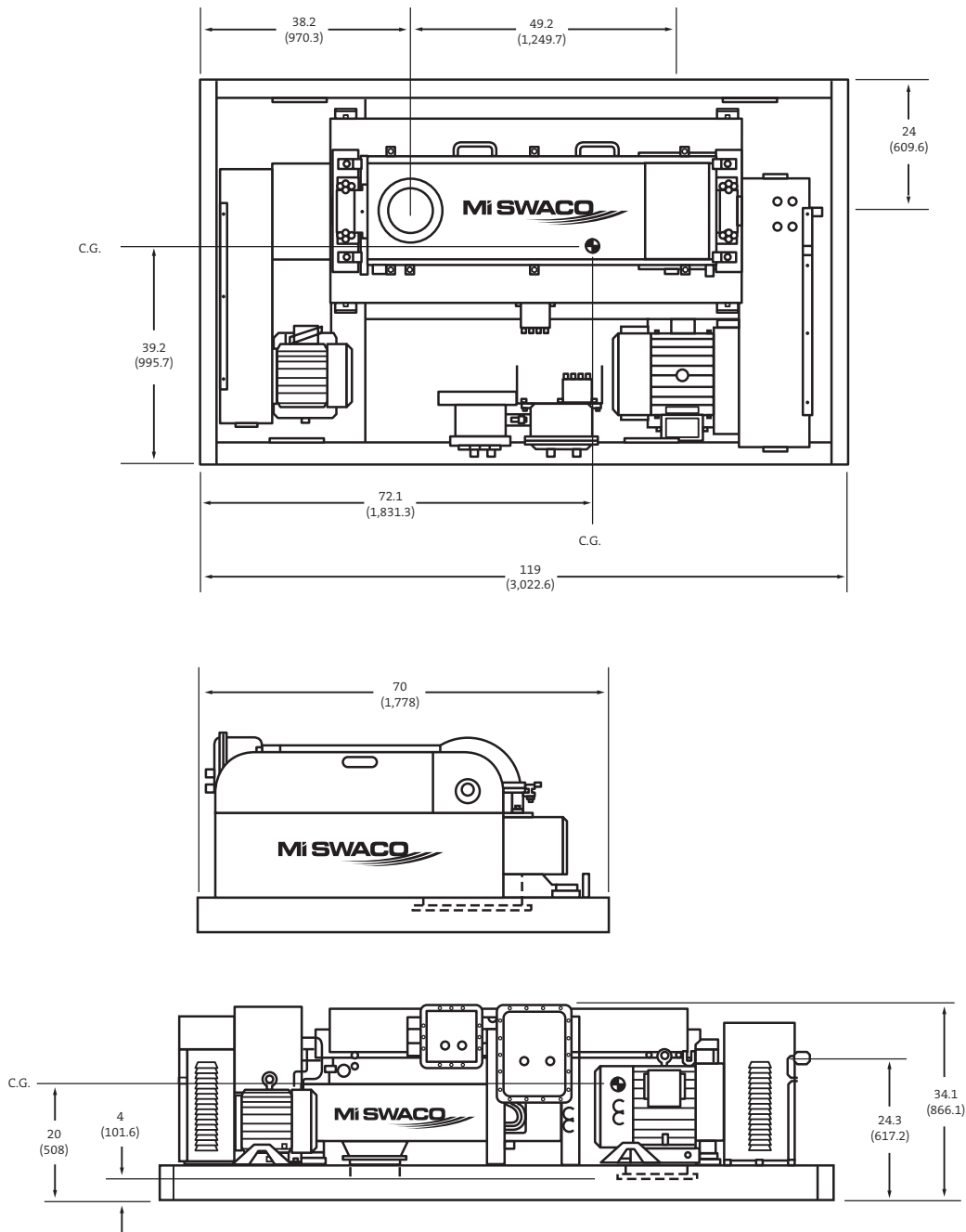
Feed slurry enters through a hollow axle at the narrow end and is distributed to the bowl. Centrifugal force as high as 500 G's at 1,900 RPM (or 2,100 G's at 3,250 RPM) holds the slurry against the

bowl wall in a "pool." Trapped silt and sand-sized particles settle and spread against the bowl wall where they are conveyed to the solids underflow discharge ports by tungsten-carbide-tipped scroll flights. Silt and sand particles exit damp, but with no free liquid. The free-liquid phase carries the fine, 2- to 3-micron-size particles through the nonplugging stainless steel and tungsten-carbide hardfaced-discharge ports.



**ENGINEERING DRAWING: 518 CENTRIFUGE**

All dimensions are expressed in inches (millimeters).



**Standard 518 Specifications**

- Bowl size 14 x 56 in. (356 x 1,422 mm)
- Length 119 in. (3,022.6 mm)
- Width 70 in. (1,778 mm)
- Height 34.1 in. (866.1 mm)
- Weight 4,800 lb (1,832 kg)
- Horsepower 25 hp/7.5 hp

**High-Volume 518 Specifications**

- Bowl size 14 x 56 in. (356 x 1,422 mm)
- Length 119 in. (3,022.6 mm)
- Width 70 in. (1,778 mm)
- Height 34.1 in. (866.1 mm)
- Weight 5,100 lb (2,313 kg)
- Horsepower 50 hp/20 hp