

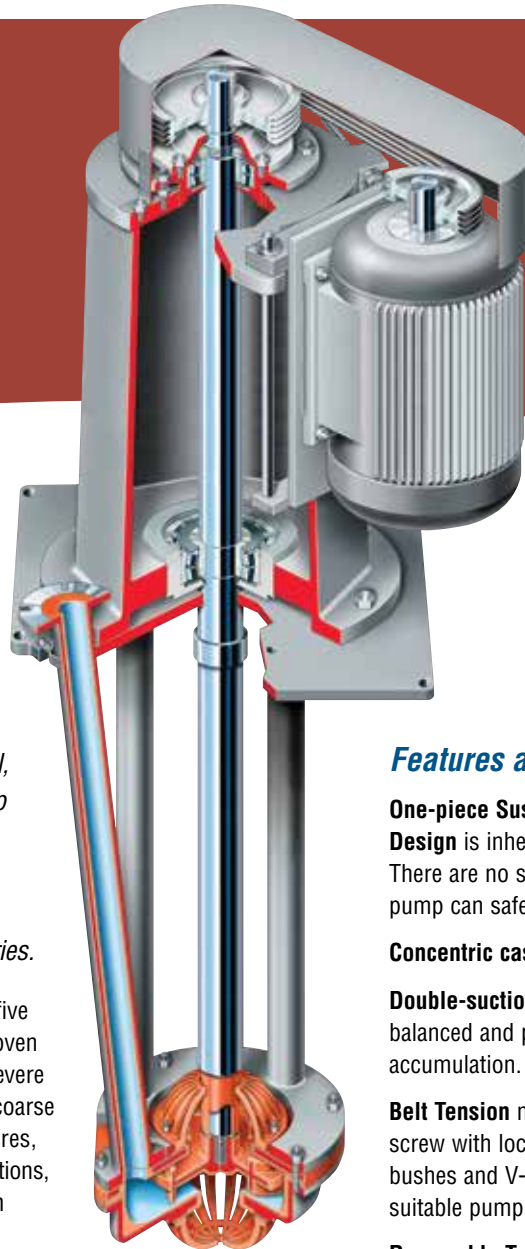


***TKL™ Terra-Titan™  
Vertical Cantilever Shaft Sump Pump***



***Experience In Motion***

**TKL Terra-Titan**  
**Vertical Cantilever Shaft**  
**Sump Pump**



*The TKL Terra-Titan vertical, cantilever shaft sump pump is ruggedly built to provide the economical reliability demanded by the mining, process and general industries.*

A hardy workhorse offered in five sizes, the Terra-Titan has a proven record of handling the most severe applications. Whether fine or coarse solids, neutral or acidic mixtures, high-flow or dry-running conditions, the Terra-Titan performs tough jobs reliably.

**Applications**

- Mining and mineral processing
- Steel and primary metals processing
- Carbon pulp transfer
- Fly ash
- Mill scale
- Pulp production and processing
- Liquid effluent
- Wastewater
- Sugar mill waste
- Food processing



**Features and Benefits**

**One-piece Suspended, Oversized Cantilever Shaft Design** is inherently rigid, leading to lower vibration. There are no seals or submerged bearings, so the pump can safely operate under dry-run conditions.

**Concentric casing** minimizes wear.

**Double-suction, Open Impeller** is hydraulically balanced and prevents air-lock and solids accumulation.

**Belt Tension** may be set via a simple adjusting screw with locknut. Low mounted motor, taper lock bushes and V-belt drive allow for simple adaptation to suitable pump speeds.

**Renewable Terraprene Shaft Sleeve** eliminates shaft wear within the pump casing.

**External Impeller Adjustment** provides a simple, fast and easy way to adjust impeller clearances for special applications.

**Heavy-duty, Self-aligning Roller Bearings** are greased for life and fitted in a common bearing housing. Greasing point is available if required.

**Upper and Lower Strainers** prevent entry of solids and foreign matter larger than the impeller passage.

**Additional Features**

- Lifting lugs
- Rigid motor mount pivot bar
- Stiff support base

### Low-Cost Solution

The Terra-Titan offers significant cost savings.

- Low initial cost
- Low energy costs
- Reduced parts consumption
- Reduced inventory costs
- Reduced maintenance costs



### Material Options

The Terra-Titan is available in two standard materials of construction to meet service requirements. Both are dimensionally interchangeable, offering increased flexibility in service.

- Terraprene, a specially formulated urethane material, may be used with slurries containing fine solids in suspension. Suitable to 80°C (180°F)
- Hard iron is preferred for applications containing coarse solids, as well as those at higher temperatures.

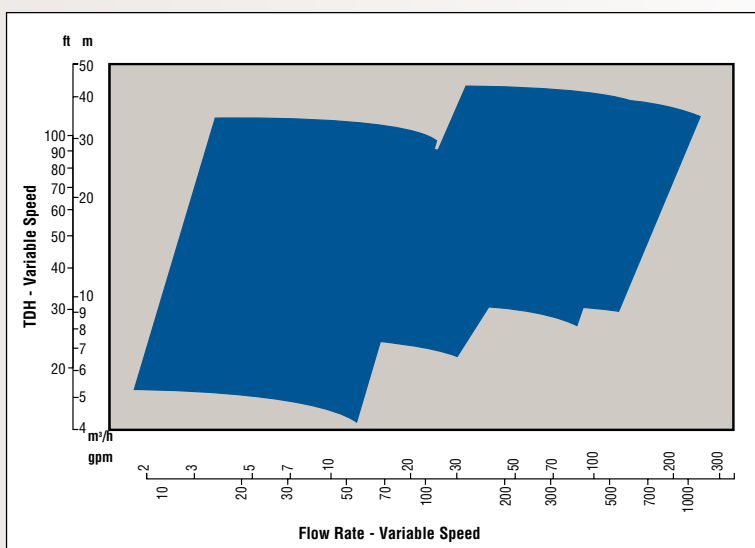
An abrasion-resistant fluoropolymer coating is also available for highly corrosive slurries.

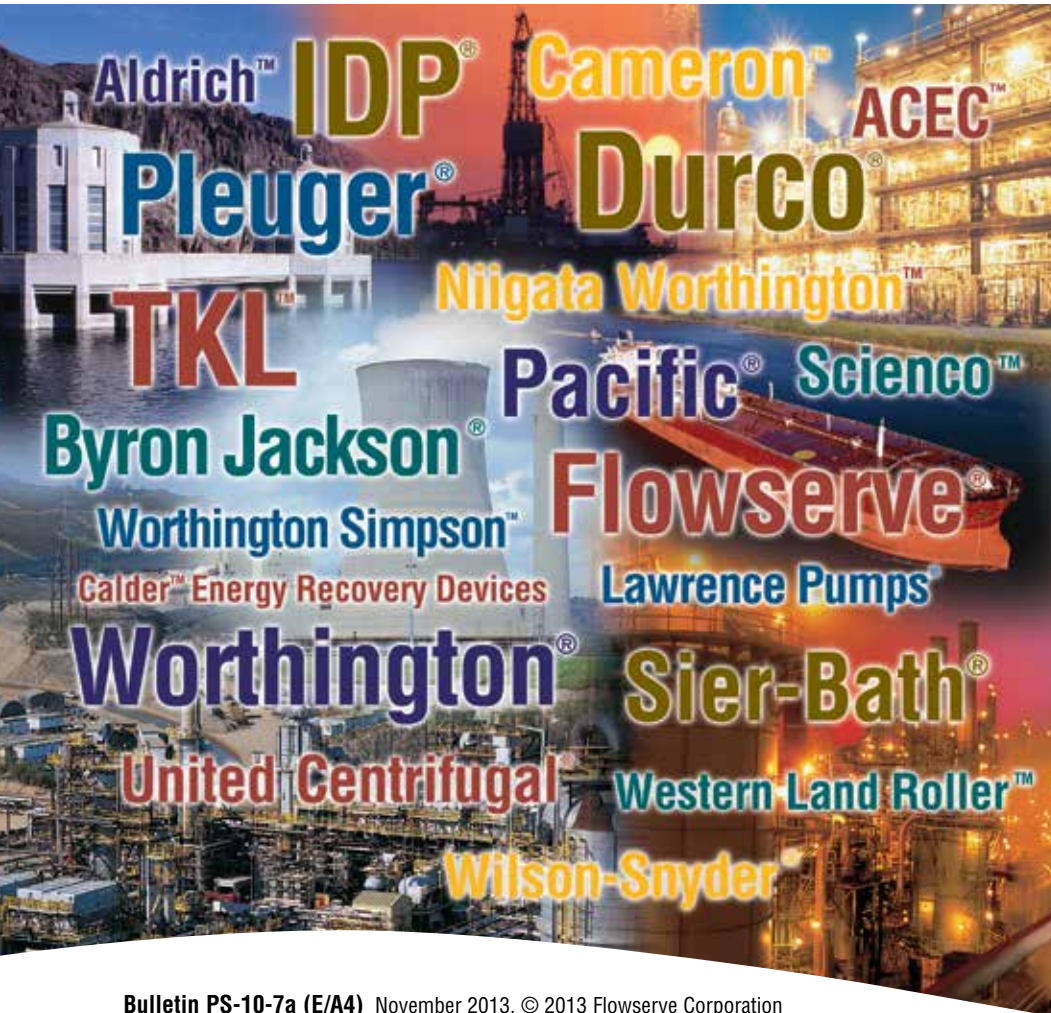
### Mechanical Options

- **Bottom Suction Pipe**, up to 2 m (6 ft), can be fitted to extend the working depth of the pump in difficult conditions.
- **Shaft Drive End** can be provided in U.S. standard shaft and keyway dimensions instead of the standard metric dimensions.

### Operating Parameters

- Flows to 250 m<sup>3</sup>/h (1100 US gpm)
- Heads to 40 m (131 ft)
- Temperatures to 100°C (212°F)
- Pressures to 5 bar (70 psi)
- Sizes 40 to 125 mm (1.5 to 5 in)
- Standard column lengths of 700, 900, 1200, 1500 or 1800 mm (28, 35, 47, 59 or 71 inches)
- Power range 0.5 to 55 kW (0.75 to 75 hp)





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***To find your local Flowserve representative:***

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