

# TOWNLEY

Engineering & Manufacturing Co., Inc.

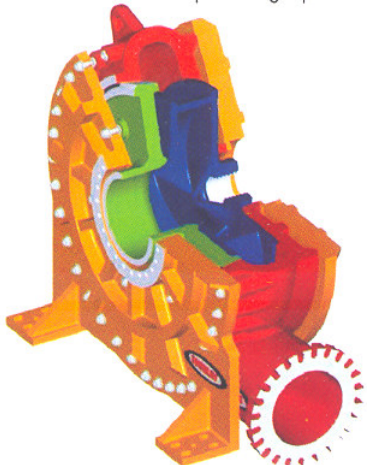
PUMPS

## UBD SLURRY PUMP

### UBD Slurry Pump

This patented centrifugal solids handling pump is considered the greatest advancement in matrix pumping and hydro-transport of tailings in the last decade. Designed with clean hydraulic porting, this pump incorporates the patented Peak-Flo<sup>®</sup> recessed volute with a nesting closed impeller, which prevents eddy-current induced wear sites and virtually eliminates recirculation between the impeller shroud and suction liner. Coupled with a clean suction port and the right choice of materials, our customers are realizing improved wear and are switching from the OEM style quickly.

- Improved NPSHR, "net positive suction head required"
- Lower power consumption
- Passes large particle sizes
- Variety of typical sizes
- Wear-resistant materials
- Clear improvement over OEM style
- Uniform wear means extended life
- Available in alloy for coarse feed
- Shell, liners and impellers available in molded-in Towniprene<sup>®</sup> urethane
- Volute liners, suction liners and impellers available with bonded Towniprene<sup>®</sup> urethane depending upon the application.



#### Applications

- Copper and phosphate matrix mining
- Pit and booster pump stations
- Hydro-transport of Oil-Sands feed and tailings

#### Complete Wet Ends

Designed as a perfect fit to your existing pump, no change in your piping or drive mechanism is required unless you choose to upgrade.

#### Application-Specific Materials

Townley is unique to the pumping industry as we have our own North American white iron foundry capable of pouring hardened alloys to suit your application.

#### Upgrading Your Piping

Townley has many years of experience providing flex-hose for suction and discharge service to this pumping application, reducing vibration and noise, and ensuring in-field fit.

#### Upgrading Your Pump Assembly

Ask about our new pre-tested bearing assemblies. With a 48-hour break-in period on our test stand, you can expect trouble-free operation on site.

TOWNLEY

## Townley Tough!

1-800-342-9920

[www.townley.net](http://www.townley.net)

[info@townley.net](mailto:info@townley.net)

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## PUMPS

### UBD SLURRY PUMP

#### UBD Slurry Pump

##### Patented Hydraulics

This unique design affords clean hydraulic flow of the feed from the suction port, through the impeller vanes and then directed through the discharge port with a minimum of turbulence and recirculation, thus reducing wear and extending service time.

##### Peak Efficiency

New impeller vane profiles, coupled with the clean hydraulics, improve the NPSHR (net positive suction head required), producing improved efficiency for a given set of parameters.

##### Feed Passage

This open hydraulic architecture allows for free passage of large media outliers found in most matrix feed.

##### Sizes

Available in a variety of common sizes from 18" to 22" with impellers as large as 56".

##### Alloys

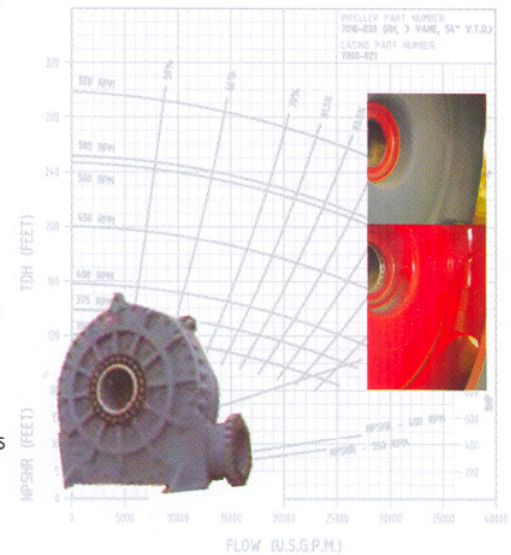
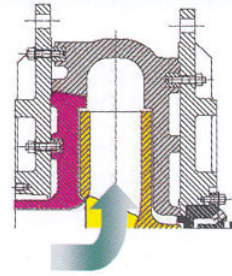
For the UBD Series pumps, Townley's foundry is capable of pouring a variety of wear-resistant alloys including HC28, NiHard and CM22 with heat treating cycles generating the hardness up to 700 Brinell or more depending on the alloy. All metals conform to ASTM 532 specifications.

##### Towniprene®

With 40 years of experience molding urethane liners for pumps, Townley can line volutes, impellers or suction/discharge liners as indicated by the slurry pumping conditions.

##### New Bearing Assemblies

With a 48-hour break-in period on our test stand, we apply axial and radial loads to the shaft to simulate the extremes experienced in the field. Temperature and vibration data is collected, analyzed and fingerprinted to ensure trouble-free operation on site. Data ports allow for in-field measurements as required.



Call or e-mail us and an experienced  
Townley Technical Sales Representative  
will help specify the  
right pump for your application.  
[info@townley.net](mailto:info@townley.net)  
1 (800) 342-9920

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#### Sales & Manufacturing Centers

Home Office	Arizona	Illinois	Texas	West Virginia
Candler, FL	Eloy, AZ	Eldorado, IL	New Summerfield, TX	Beckley, WV
Phone (800) 342-9920	Phone (520) 466-9223	Phone (618) 273-9341	Phone (903) 726-3503	Phone (304) 252-7084
Fax (352) 687-1862	Fax (520) 466-7235	Fax (618) 273-3418	Fax (903) 726-3737	Fax (304) 253-4542