

UBD® Slurry Pump

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The Perfect Upgrade

**TOWNLEY**

Engineering & Manufacturing Co., Inc.



# UBD<sup>®</sup> Series Centrifugal Slurry Pump

## The Perfect Upgrade

The clear choice for solids pumping is the patented\* UBD<sup>®</sup> Series Centrifugal Slurry Pump.

The UBD<sup>®</sup> is well suited for matrix-pit / face-of-the-mine hydro-transport, in-plant cyclone feed mill pumps and tailings discharge.

For over a decade, they have been used actively in Phosphate, copper and iron mining applications. These pumps were created to reduce wear and improve peak performance over OEM styles.



\*US-7470106



# UBD<sup>®</sup> Pump Expectations

Our engineering design team has created an innovative wet-end that exceeds the expectations of our customers.

## Ease of Maintenance:

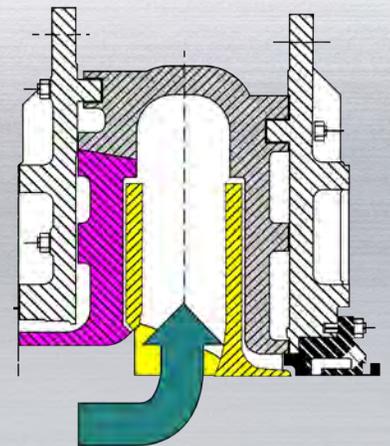
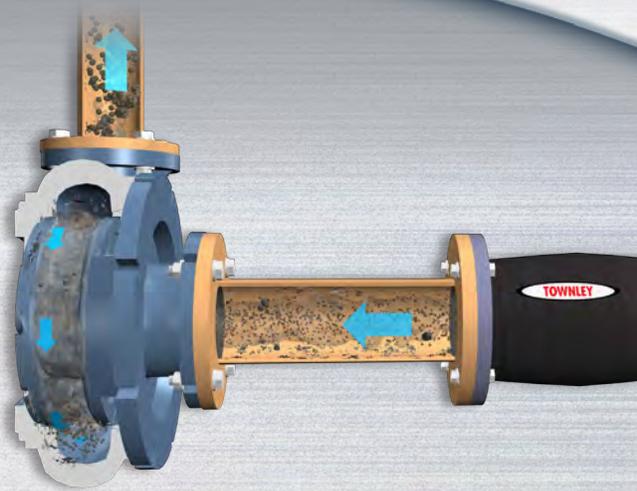
- Exact mechanical and piping fit to on-site OEM footprint
- Lifting eye locations to suit
- More predictive outage schedules

## Performance:

- Matching hydraulic pump curve of OEM
- Maintains longer peak hydraulic performance

## Extended Wear Life:

- More robust vane design
- Patented\* laminar flow suction port to better direct media flow
- Patented\* pocketed impeller shrouds in volute to reduce recirculation and impeller tip wear
- Advanced metallurgy choices to match customer's applications



The patented sweeping style suction port reduces entry turbulence and enhances media flow through impeller

The patented parallel pockets cast into the volute body with mating impeller shrouds, ensure less media recirculation and wear on both the suction and gland-side gap as well as minimal shroud tip turbulence erosion.

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# Materials

UBD® style pumps are very well suited to handle coarse or fine feed slurries.

Townley's highly skilled metallurgists using our "state of the art" metallurgical lab technology, produce consistent quality castings and can create unique metallurgy to withstand the most severe service

We also provide our bonded in Towniprene® urethane liners with the same patented features for general mill tailings and other fine feed service.

## Townley Standard Metallurgy:

HC 28	High-Chrome Alloy	General Abrasion
CM 22	Chrome-Molybdenum	Very Abrasive Media
Ni-Hard	Nickel-Chrome Alloy	Moderate Slurry
CD4-MCu	Duplex Stainless	High Chloride / Fluoride
HC 34	High-Chrome	pH Excursions

Our productive CNC machining center, provides the perfect final fit and finish to each mating casting.



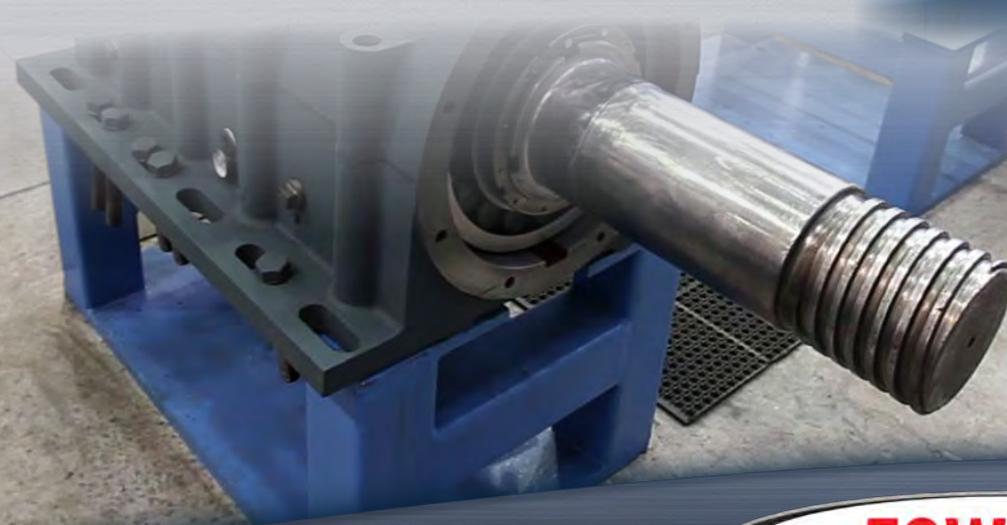
Townley has five induction furnaces capable of pouring up to 16 tons of white iron; we consistently have some of the best lead times in the industry.



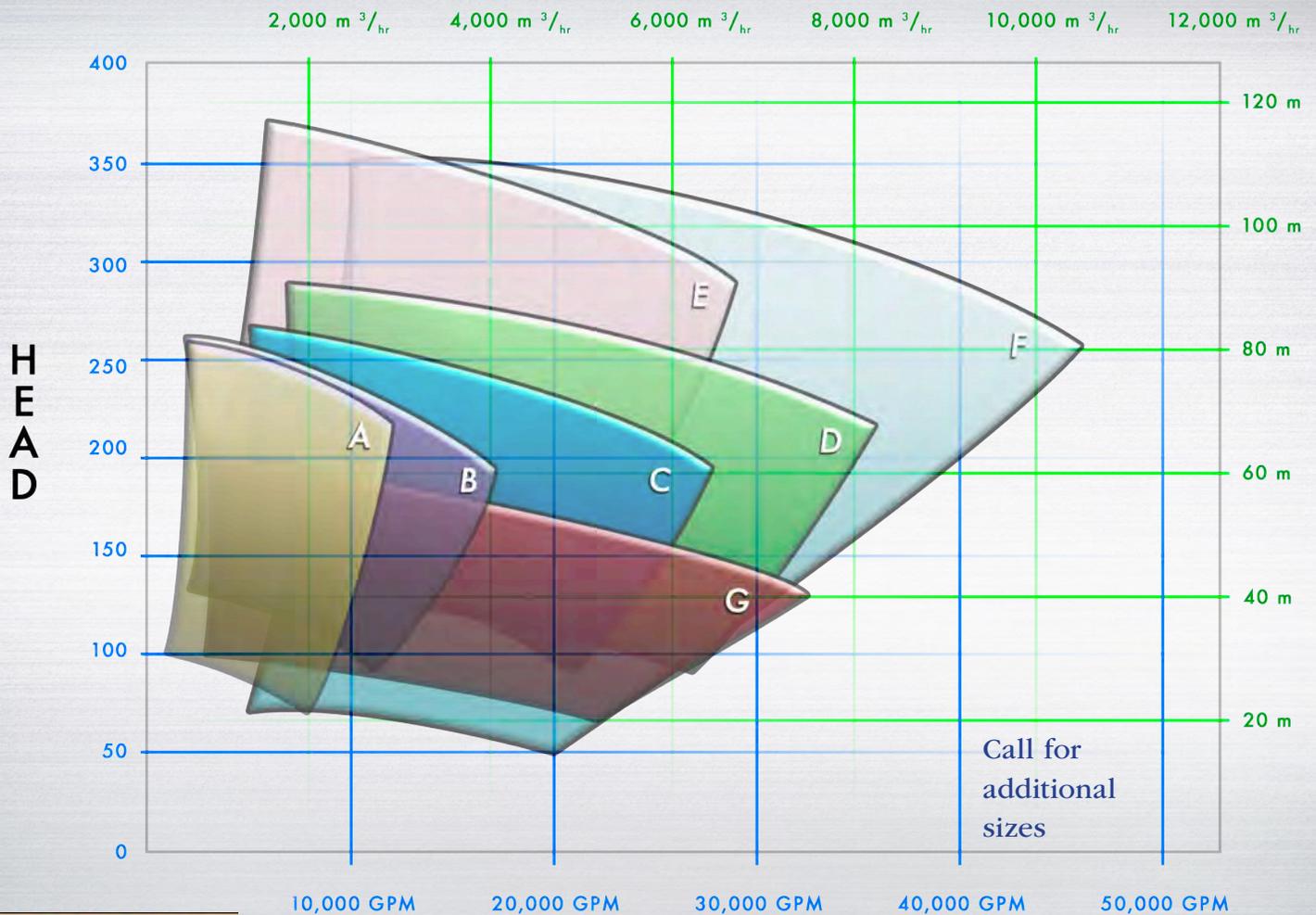


Along with the wet-end improvements,  
Townley was the first to create:

- A heavy duty shaft to prevent deflections induced by uneven impeller loads
- A pre-tested bearing assembly and pedestal to assure reliable field operation
- A unique impeller release collar to provide the safe removal of the worn impeller
- Specially formulated high-chrome and chrome-moly alloys for each application



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**CURVE LEGEND:**

- A - 12 X 14 X 38
- B - 16 X 18 X 42
- C - 18 X 20 X 46\*
- D - 20 X 22 X 56\*
- E - 20 X 20 X 54\*
- F - 20 X 22 X 56
- G - 20 X 22 X 64

**FLOW**

\* Bonded-in Towniprene<sup>®</sup> urethane liner option for fine slurry available



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## Applications

The performance characteristics of this re-engineered pump effectively improves the consistency and “reliability of the process output increasing the total % solids transported and extending wear life. This has resulted in a measurable improvement in the “cost per ton a day” for the users.

### Phosphate Mining

- Matrix Hydro-transport (primary & booster)
- Water jet pit pump
- Tailings transport pumps (primary & booster)

### Metal Mining

- Cyclone feed pumps
- Miscellaneous process pumps
- Tailings pumps

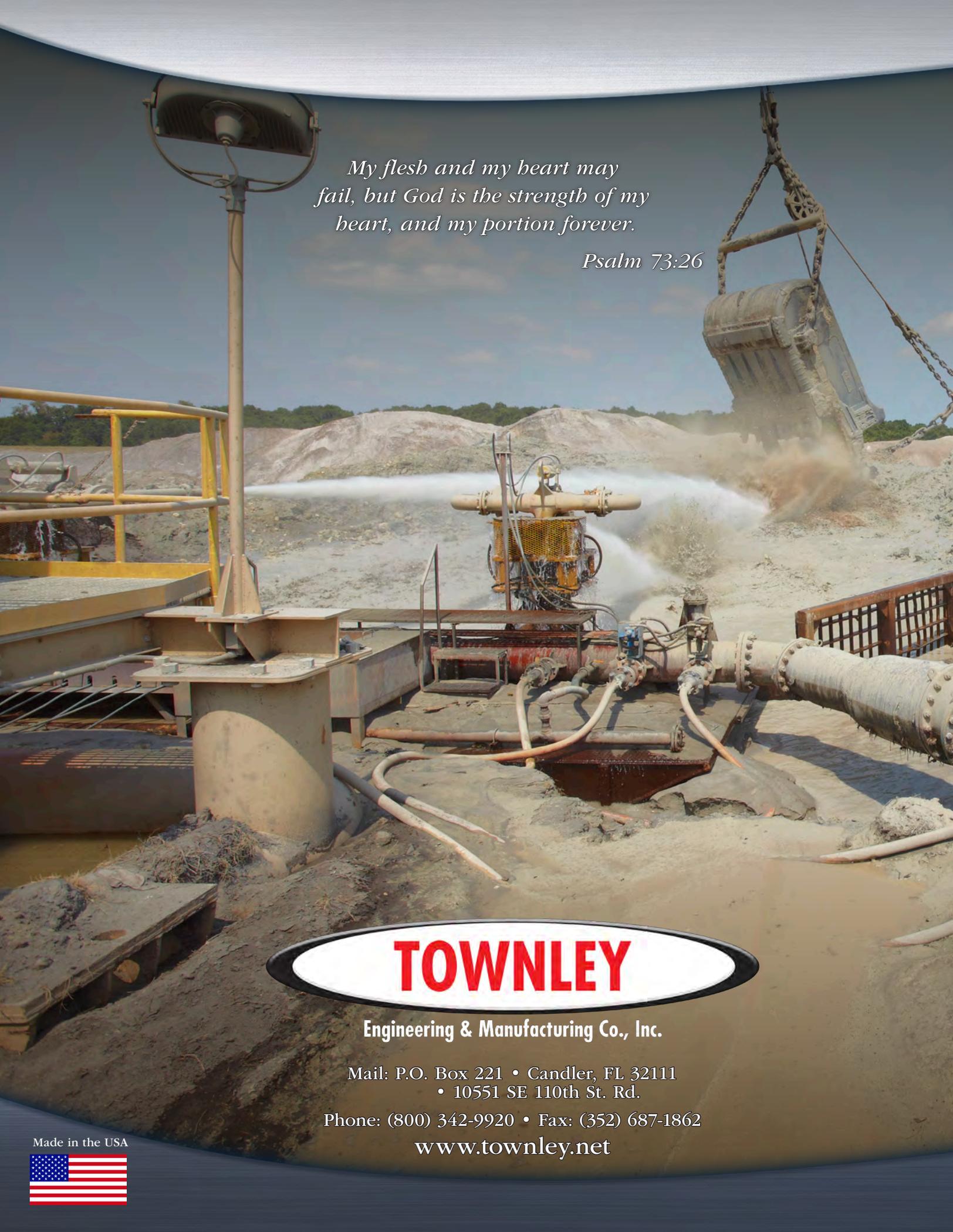
### Oil Sands

- Tailings transport (primary & booster)
- Process pumps



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*My flesh and my heart may  
fail, but God is the strength of my  
heart, and my portion forever.*

*Psalm 73:26*

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