

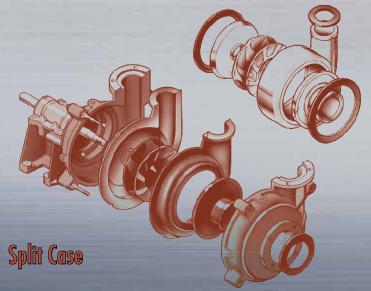
## The WRKTM

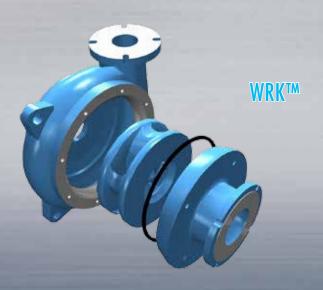
The patented  $WRK^{\text{TM}}$  or Wet-end Retro-fit Kit, was developed by Townley a decade ago as an effective upgrade from the cumbersome, split case "AH" Style OEM slurry pumps.

Designed with many maintenance friendly and wear resistance features, the  $WRK^{TM}$  has been one of the best slurry pump upgrades in years and the new benchmark.

- Simple three part wet-end assembly
- · Easy installation
- Exact mechanical fit-up on existing frame and piping centerlines
- Hydraulic characteristics matching OEM performance curves
- · Minimum recirculation due to patented internal design
- Excellent output efficiency with longer peak performance times
- One piece shell/volute allows for more robust wall construction 2-3 times thicker than OEM volute liner
- Impeller cast with thicker walls and longer vane overlap
- Impeller can be replaced by removing Suction Liner only
- Customers report significantly longer wear life for shell / volute and impellers
- Broad selection of corrosion and abrasion resistant alloys to match new EPA induced process conditions found in mature power plants and mining

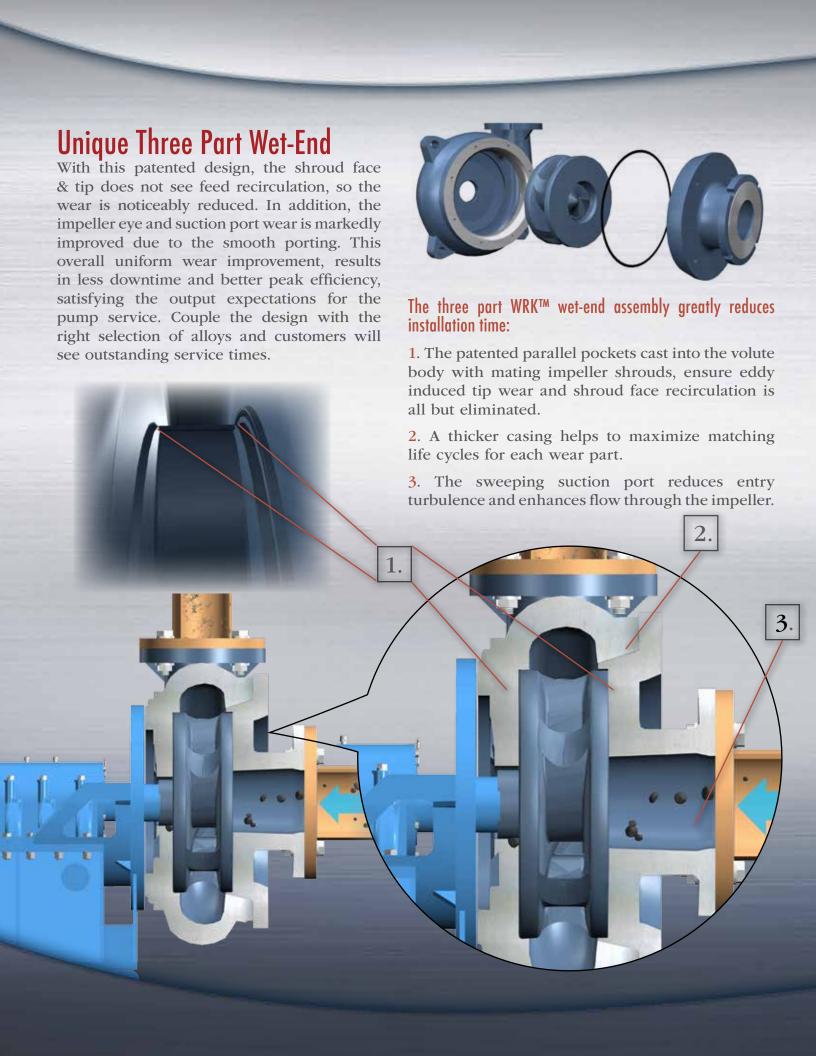




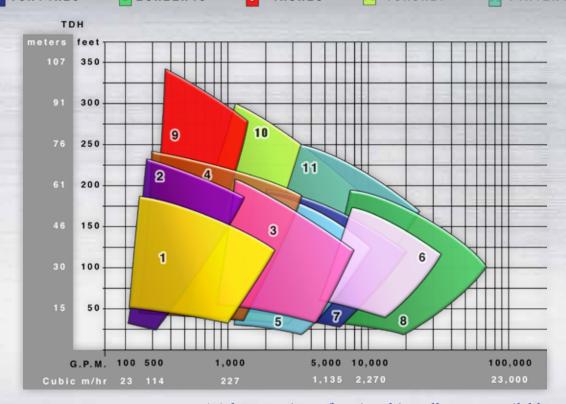


Split cased pumps were a versatile design in the day, having 10 to 12 components, relatively thin volute liners and volute alignment tabs that don't always match. Historically wear life ratios for these style pumps would be 1:2:2 volute / impeller / throat-bush respectively. Just to replace the impeller, requires disassembly of the pump shell.









\* A large variety of optional impellers are available



## **Features**

WRK™ wet-ends are available to fit most OEM styles like: DAH, EAH, HP, FHH, STAH, SL, GSL

### **Flows**

500 GPM to 13,000 GPM

114 m3/hr. to 3,000 m3/hr.

#### TDH

100 feet to 300 feet

30 meters to 90 meters

Engineering & Manufacturing Co., Inc.

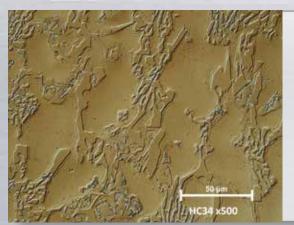




# **Wear Materials**

WRK<sup>TM</sup>'s are very well suited for abrasive slurry or fine feed applications. Additionally, we find that many coal fired power plants and some mine process circuits with tight water conservation requirements, find themselves fighting high chloride and fluoride levels along with low pH excursions in the media being pumped.

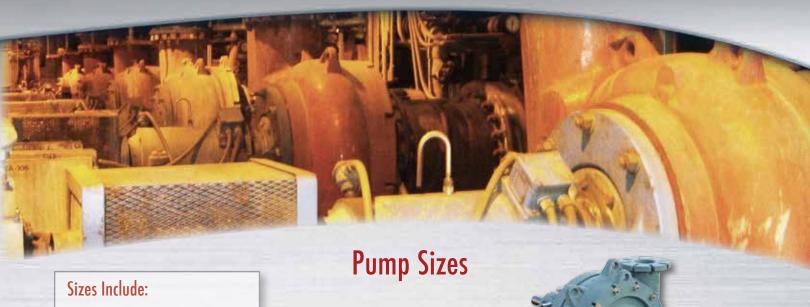
Many customers experience high pump failure rates due to corrosion and erosion coupled with the abrasion. This common situation can raise havoc with the OEM centrifugal pumps that originated at the time of construction, as the feed conditions may have changed over time. Townley has many options for these severe problems in industry, both with metallurgy and creative design.



## **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





- 4 X 3 X 10 DAH\*
- 4 X 3 X 20 DAH\*
- 6 X 4 X 16 DAH, EAH\*
- 6 X 4 X 29 FHH\*
- 8 X 6 X 21 EAH, STAH\*
- 10 X 8 X 22 200M\*
- 10 X 8 X 27 FAH, STAH\*
- 12 X 10 X 32 FAH, STAH\*
- 14 X 16 X 29 FAH, STAH\*
- 20 X 18 X 38 350 SL\*
- 26 X 22 X 48 450 SL\*
- 26 X 22 X 49 550 SL\*
- GSL\* 700
- GSL\* 800
- GSL\* 1000

**NEW!** See separate

info sheets







- \* DAH, EAH, FHH, STAH, M, SL, GSL may be trademarks of Weir Minerals
- \* Townley Engineering and Manufacturing, does not represent nor is it in any way affiliated with Weir



