



ERL COMMERCIAL MARINE, INC.

AMERICA'S LEADING TANK BARGE EQUIPMENT PROVIDER

12LS DEEPWELL VERTICAL TURBINE TANK BARGE PUMP

- **IMPELLER TRIMS FOR EVERY APPLICATION**

The ERL 12LS Pump can accommodate Power Levels from 170HP to 300HP. This is accomplished by trimming the impellers to suit your application. We will customize your pump to suit your needs.

- **11LS AND 12LS PUMP HEADS AVAILABLE**

The ERL 12LS can also accommodate 8"(11LS) and 10"(12LS) Discharge flanges. This allows customers to utilize a 12LS Pump with an 11LS head. This gives you the ability to increase your pump capacity without installing new piping.

- **2 TIMES THE STRENGTH**

We utilize ductile iron on all of our castings. This gives you 2X the strength of the typical cast iron pumps. The result is longer life and better value for you. Stainless steel housings and impellers are also available.

- **DESIGNED USING COMPUTATION FLUID DYNAMICS (CFD) TO ENSURE THE HIGHEST EFFICIENCY**

This software allowed us to optimize every component prior to testing to give our customers the best 12LS in the industry. The result is less fuel and time is needed to discharge a barge. This adds up to value for you.

- **TESTED AT AN ACCREDITED 3RD PARTY LABORATOR**

The testing validated the design calculations and CFD Modeling results. It also ensured our customers get the performance they desire for their application.

- **VERTICAL ASSEMBLY OF ALL PUMPS**

To give our customers the highest quality pump we build each pump vertically to ensure each component is aligned concentrically with the next. Why would anyone build a vertical pump horizontally?





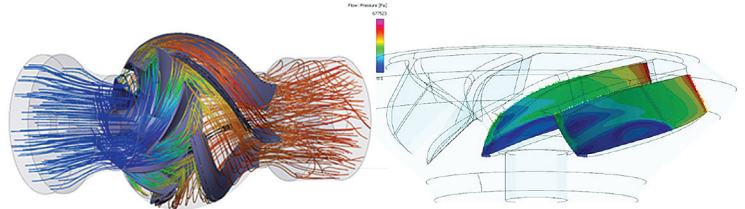
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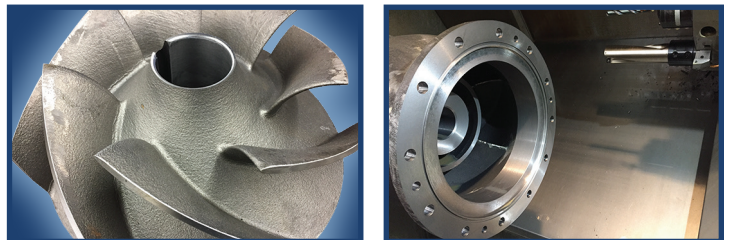
DESIGN

The ERL 12LS pump was designed and modeled to be the highest flowing, most efficient 12LS barge pump on the market. Computational Fluid Dynamics, or CFD, modeling was utilized to test design variations to provide the best components possible.



MANUFACTURING & PRODUCTION

All components for the ERL 12LS barge pumps are machined and assembled in a facility in New Albany, Indiana. Our castings are sourced from our local suppliers, produced from our computer models, and manufactured using our own tooling. ERL has constructed a highly functional assembly stations, complete with hydraulic lift pit to allow the components to be assembled vertically.



TESTING

- The ERL 12LS barge pump was tested at an accredited 3rd party state of the art Testing Laboratory.
- This testing validates the design calculations and CFD modeling results.



3 STAGE ERL 12LS PUMP - FULL TRIM IMPELLERS

