



New Life for Old Pumps

Engineered Replacement Parts

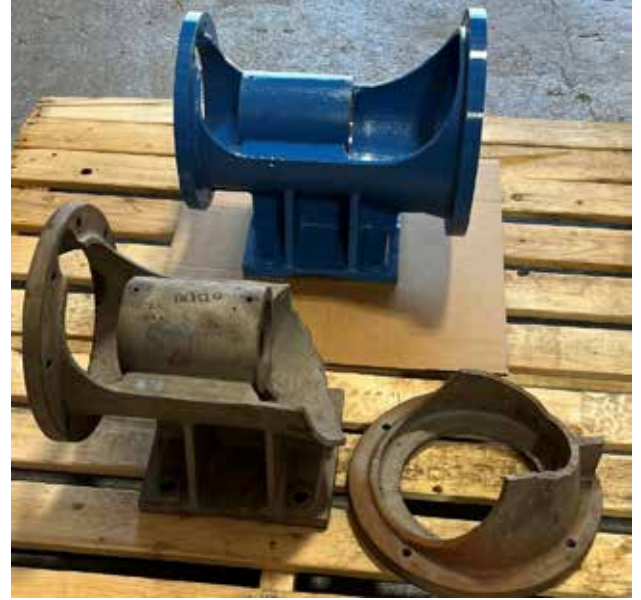


Obsolete Part? Old Part?

Do you have a pump at the center of a critical operation sitting idle because a part just failed and you cannot obtain a replacement because the original equipment manufacturer (OEM) obsoleted the model?

ProCast has the solution for you. We provide re-engineered parts that are better than the original and we deliver them up to twice as fast.

ProCast performs engineering, foundry, and machining services for the production of metal centrifugal pump replacement parts for worldwide industrial markets. Utilizing global engineering center capability, regional manufacturing resources, combined with the latest available technology, ProCast re-engineers parts to improve hydraulic performance and equipment life cycle. Customers requiring a rapid supply of replacement parts due to wide variety of performance issues or obsolescence of existing, but critical pumping equipment can count ProCast to provide quick and cost-effective solutions.



We achieve that through:



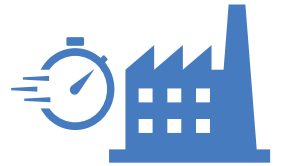
Rapid Quotation



Data Acquisition



Re-engineering



Rapid Manufacturing



Before



After

Rapid Quotation / Data Acquisition

Need a Quote???

Send us the following:



**Photos with
overall dimensions**



Weights



Material Desired



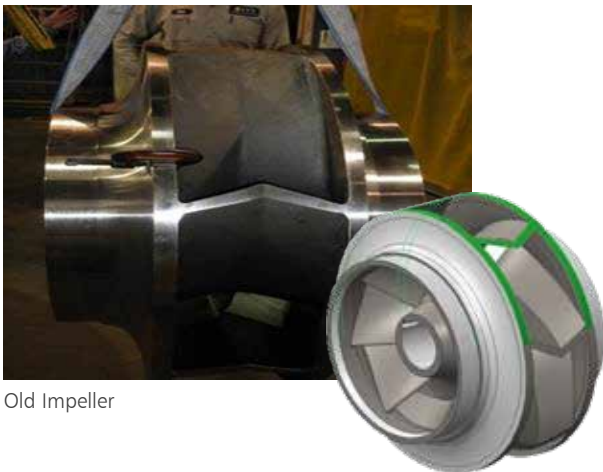
Like our quote? Ship it to us. If the part is too big to ship, our global data acquisition team will come to you. All of our engineers and technicians are certified through our own in-house program, both Level 1 and Level 2.

Data Acquisition Team Locations:

- Houston, TX
- Zachary, LA
- Chicago, IL
- Cullman, AL



NOTE: Can travel to
your location



Old Impeller



New Impeller (Split, staggered &
skewed design to reduce pulsation).

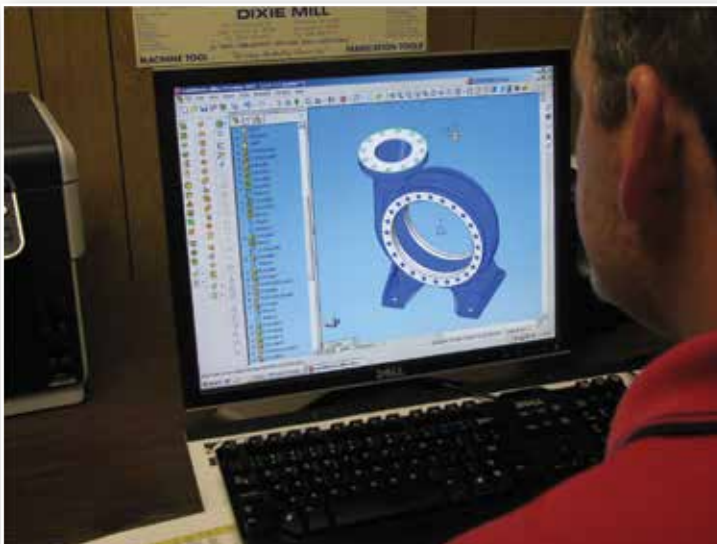
Data Reengineering

That rich imaging data is then transformed into our 3D modeling software. Drawing on ITT's Aftermarket Engineering Center of Excellence knowledge and support, our ProCast engineers then re-engineer the specific part, making the hydraulic, mechanical or material modifications needed to improve on its performance and equipment life cycle. Our advanced casting simulation software and time-proven processes make sure one pour is all it's going to take.

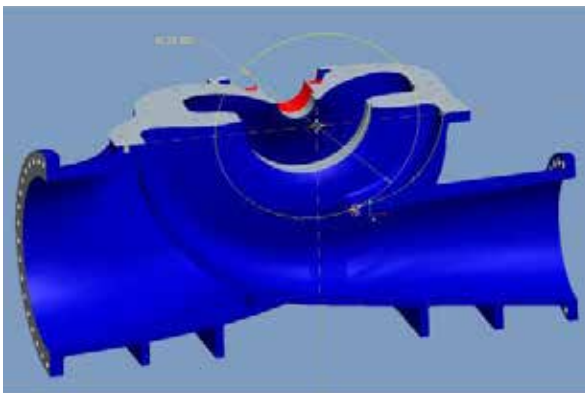
Solutions may be as simple as material upgrades or a completely re-engineered component or complete unit. 3D laser scanning and digital imaging are employed by ProCast to re-engineer complex cast components with precision.



Old United casing scanned



3D Model after reengineering completed



Lower half – 3D Model at full scale

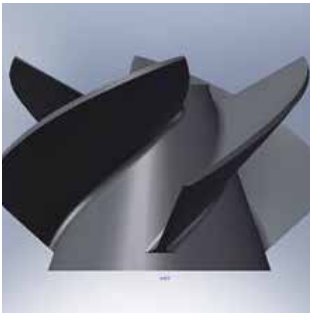


New ProCast casing upgraded from Cast Iron to 316SS

Rapid Manufacturing

Using "on-demand" 3D printing technology for industrial applications, ProCast can significantly reduce manufacturing lead times compared to conventional processes. The new technology also allows for the production of complex castings with precision and accuracy not possible with conventional production methodology and tooling.

Your part is re-engineered, cast, machined, balanced and tested, all done in less than half the time with conventional process. Every step is done to the highest standards that meet or exceed OEM standards.



Re-engineered 3D Model of Impeller from Laser Scan Data.



3D Printing Machine Makes Sand Mold Pack



3D Printed Sand Mold Pack



3D Printed Wax Melt-Off Models



Pour Metal into Sand Mold Pack and Cast



Finished Machined and Balanced Impeller

Quality

All parts undergo 100% dimensional inspection. They are quality controlled to ISO requirements.



Extensive NDE & Documentation Available




All parts inspected & documented



All Impellers & rotating elements dynamically balanced



All pressure containing parts hydro tested per Hydraulic Institute standards.



DNV

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
CERT 11888-2007-AQ-HOU-ANAB

Initial certification date:
17 September, 2018



Valid:
18 September, 2024 – 17 September, 2027

This is to certify that the management system of
ITT Goulds Pumps Inc - ProCast
 2242 Fionacher Road, Zachary, LA, 70791-0001, USA
 and the sites as mentioned in the appendix accompanying this certificate


has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
The Reverse Engineering and Manufacturing of Pump Parts and Pattern Making

Place and date:
 Katy, TX, 05 August, 2024

For the issuing office:
 DNV - Business Assurance
 1400 Ravello Drive, Katy, TX, 77449-5164, USA



Shortf McKewey
 Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
 ACCREDITED UNIT: DNV Business Assurance USA Inc., 1600 Ravello Drive, Katy, TX, 77449, USA • TEL: +1 281-396-1000, www.dnv.com

Engineered Replacement Parts

Customized Replacement Parts or Complete Pumps

With the support of ITT's Aftermarket Engineering Center of Excellence knowledge and support, our ProCast engineers reengineer specific parts and complete pumps, making the hydraulic, mechanical or material modifications needed to improve on its performance and equipment life cycle.

- Multistage Casings, Impellers, Diffusers, Bearing Housings.
- Parts for API 610 & ISO 13709 Process Pumps of Different Designs & Materials
 - OH2 Overhung
 - OH3 Vertical In-line
 - BB1 Axially split single stage
 - BB2 Single & two stage radially split
 - BB3 Axially split multistage
 - BB5 Radial split multistage
 - VS0
 - VS1
 - VS2
 - VS3
 - VS4
 - VS5
 - VS6a-c
 - VS7
- NDE & Documentation
 - PT, MT, UT
 - Radiography



Engineered Replacement Parts in Inventory

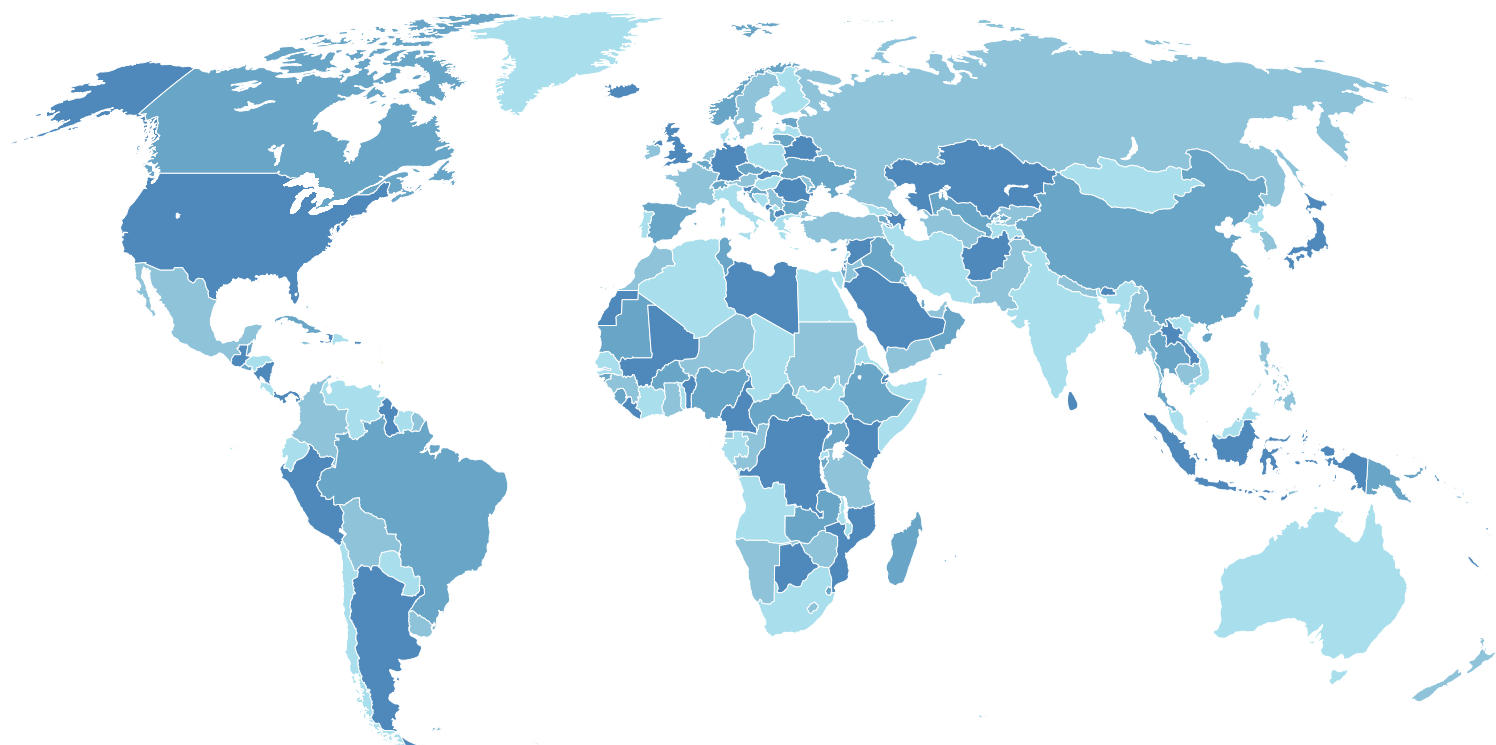
ProCast also offers replacement parts and power ends that fit:

- Flowserve Durco Mark II & Mark III
- Sulzer APT/APP (Ahlstrom) Pumps - stock in ASTM A3890 Grade 3A Duplex Stainless
- Warman® Pumps



For more information on ITT ProCast, go to procastparts.com
If you have any questions, send us an inquiry at procastparts.com/contact-us

Wherever you are, We're there too.



ProCast® engineered replacement parts and power ends for all brands of industrial pumps and rotating equipment. Utilizing global engineering center capability, regional manufacturing resources, combined with the latest available technology, ProCast re-engineers parts to improve hydraulic performance and equipment life cycle. Customers requiring rapid supply of replacement parts due to a wide variety of performance issues or obsolescence of existing, but critical rotating equipment can count on ProCast to provide quick and cost-effective solutions.

Visit ProCast online at www.procastparts.com

Phone: 800.543.6263

Fax: 225.654.8071

email: procast@itt.com



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