



# Flygt A-C Custom Pump Aftermarket and Service

PROVIDING REPAIR AND UPGRADE SOLUTIONS FOR ALL YOUR PUMP,  
PARTS AND SERVICE NEEDS FOR MORE THAN 140 YEARS



Genuine Allis Chalmers, A-C Parts, ITT A-C Parts



# Lower Operating Cost. Lower Maintenance Costs. Less Downtime.

Service from Flygt A-C Custom Pump (formerly ITT A-C Pump and Allis Chalmers) is backed by more than 140 years of pump design and manufacturing experience.

- Comprehensive range of services for centrifugal pumps from 2" to 156".
- Improved pump performance and reliability, thus reducing operating and maintenance costs.
- Rotating equipment experts upgrade and improve equipment regardless of the original manufacturer.
- Dependable partner for pump services and repair.
- Central location pump in the continental USA, any pump can ship to us in Pewaukee, WI, in two days or less.

**The Flygt A-C Custom Pump Service Plan:** The total plan, including evaluation and service recommendations, followed by design and materials specification, repair or installation and reliable post-service support.

**Custom Upgrading:** We can provide the professional engineering to redesign, re-rate or hydraulically and/or mechanically upgrade your pump—regardless of the manufacturer—to increase efficiency, capability and reliability, and add years of maintenance-free operation to the life of your pump.

**Pump Reconditioning:** We'll restore your pump to its original equipment specifications with proper materials, improving performance, extending pump life, reducing operating costs and minimizing downtime.



Data dots from a CMM dimensional check of an impeller for a 114 x 84 WCBR pump.

**Diagnostic Field Service and Engineering:** We provide on-site inspection, analysis and diagnosis, installation and removal services or supervision, repair supervision, and pump overhaul. We can also provide engineering startup assistance, vibration analysis and check out the entire pumping system.

**Flygt A-C Series Repair Parts:** We have all Allis Chalmers and A-C Custom pumps drawings, records and patterns on hand to assure that parts are available. For other manufacturers, we use parts manufactured to OEM specifications to ensure proper fit and performance.



Cross section of a KSB 3 x2 WKF 100-3 Boiler Feed Pump.

## Increase Pump Reliability

Erosive and corrosive part failures force downtime and increase maintenance costs. We can minimize both by upgrading component part materials and eliminate repetitive component part failures by upgrading the mechanical design of your pump.

# Increase Pump Efficiency and Capacity. Lower NPSH Requirements.

Rebowling your circulating water pump with new Flygt A-C Custom Pump high efficiency impellers will lower your pump power requirements and operating costs, improving overall plant efficiency. By hydraulically upgrading the pump, it's possible to increase capacity without increasing speed. Rebowling can also lower the NPSH requirement, reducing the potential for cavitation problems.

**Let us increase your pump reliability by minimizing forced downtime and high maintenance costs due to part failures.**



Rotating element and inner casing assembly lower half for an 8 x 8 BBDG-11 stage pump being trial fit to check floats and clearances.



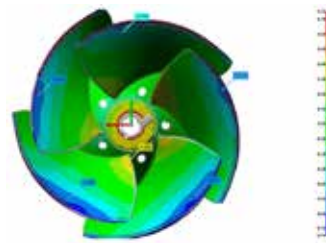
Preparing a 100 X 72 WCF Column pump for performance test in our Xylem 440,000 gallon test facility.



Restoring the registered fit and mounting flange flatness, and parallelism of a discharge elbow from a 102 x 72 WCA pump.



Restoring the fit, flatness and parallelism of the feet and casing faces on the casing and suction nozzle from a 66 x 48 WSYAV pump.



Color map produced by our 7-axis probing and laser scanning CMM. This tool aids in inspections, vane contour verification, and reverse engineering.



Balancing the rotating element for an 18 x 10 CDV 6 stage pump.



Restoration of an Ingersol Rand 4 HMTA-6 pump assembly.

# Flygt A-C Custom Pump Capabilities

ISO Classification	ISO 9001 Certified
Engineering Capabilities	<ul style="list-style-type: none"> <li>• 3D solid modeling</li> <li>• Finite Element Analysis (FEA)</li> <li>• Computational Flow Dynamics (CFD) Analysis</li> <li>• Critical speed analysis</li> <li>• Sump studies</li> <li>• Pump testing</li> </ul>
Lifting	<ul style="list-style-type: none"> <li>• Up to 60-ton crane capacity</li> <li>• Fork truck capacity up to 34,000 pounds</li> </ul>
Assembly Areas	<ul style="list-style-type: none"> <li>• (9) assembly pods</li> <li>• (1) 10' deep assembly pit</li> <li>• Off-site auxiliary assembly areas available for oversized and overflow assembly/disassembly</li> </ul>
Testing	<ul style="list-style-type: none"> <li>• Largest indoor test facility in North America</li> <li>• (6+) test loops, dry pit and wet pit loops</li> <li>• 15 KV electrical capacity with VFD</li> <li>• 440,000 gallon test pit</li> <li>• 300,000 gallon per minute capacity</li> </ul>
Field Service	<ul style="list-style-type: none"> <li>• Field service engineers, pump assembly technicians and contracted field service representatives are available for field service.</li> <li>• Complete turnkey installations or installation supervision/consulting; field repair/overhaul or repair/overhaul supervision/consulting; start-up of both new and repaired equipment; alignment; predictive/preventative maintenance (vibration analysis)</li> </ul>

Call us today to maximize your pump performance.



Flygt is a brand of Xylem, whose 12,000 employees are addressing the most complex issues in the global water market.

[www.xyleminc.com](http://www.xyleminc.com)

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