Special Purpose Turbo Pump

In addition to the integration of pumps into reactors and circulation loop systems, high pressure loops, vacuum suction conditions, extremely high temperatures, extremely low temperatures, specific materials (titanium, nickel, high nickel-chromium alloys, double-layer alloys, etc.), surface We respond to all user needs such as treatment (thermal spraying, lining, multi-layer treatment, etc.), corrosion resistance, erosion resistance, abrasion resistance, and solid slurry countermeasures.




(Left): -104°C Ethylene Pump/Onsite
(Right): Coke Lump Crusher/Inside Crusher Pump

jacket pump	• molten sulfur pump • melt process pump
Extreme temperature pump	• Molten Salt (HTS) Pump • molten metal pump
cryogenic pump	• Cryogenic liquefied petroleum gas pump • liquefied natural gas pump • Liquid Nitrogen/Oxygen Pump • CO2 pump
high pressure circulation pump	• hot water circulation pump • Polyolefin loop reaction system pump
High temperature corrosion resistant pump	• tantalum metal lining pump
coke grinder pump	• coke lump crush pump
Wear-resistant metal slurry pump	• coal slurry pump • Catalyst slurry pump (made of high chromium metal) • FCC bottom slurry pump

Based on gear manufacturing technology, we have developed a variety of rotating pumps such as a high-speed rotating pump with a speed increasing unit integrated into a centrifugal pump, an in-line mixer derived from an in-line pump, and a jet vacuum pump used in closed-loop testing. We produce machines and their accessories.

high speed pump	• HFH Series • PLH Series
inline mixer	• PLM Series

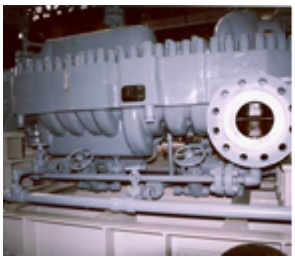
Turbo pump

pressure range 30 MPa
temperature range -180 to 850℃

Since its founding, we have pursued high efficiency, durability, reliability and safety with our own technology, and ARAIPUMP products manufactured with the latest technology of turbomachinery that have evolved further meet the needs of all users, not to mention the API610 standard. Masu.

In-line, horizontal and vertical single-stage to multi-stage products, including API610 fully compliant products that have already been standardized, and custom specification products are handled from the customer contact point through basic design, prototype testing, thermal fluid analysis, rotor dynamics, stress and strength. We have a perfect system for analysis, manufacturing, maintenance and maintenance.

In addition, our company consists of 8 systems with simultaneous multi-point data measurement systems such as cluster computing equipment for numerical calculation of cavitation research and unsteady analysis of viscous flow, loop test facility of 10,000 cubic meters per hour, full width weir, etc. We are aiming to further improve the performance of turbopumps through both calculations and experiments by introducing extensive test and research facilities that have never been seen before.

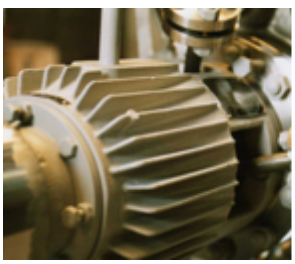




(Left): 1500M medium pressure twin volute type multi-stage pump
(Center): In-line pump directly connected to the drive shaft / On-site
(Right): Single-stage double suction pump / At the crude oil transfer yard

Inline type	• PL Series (API610) • PLD Series (API610/double suction) • PLA Series (API610)
Horizontal single stage series	• H Series (API610) • C Series (API610/slurry pump) • CR Series (API610/metal lining pump) • BL Series (high slurry pump) • A Series • K Series

Horizontal single stage double suction series	• CDF Series (API610/radial division) • KDN Series (API610/horizontal division)
Horizontal mixed flow series	• SZ Series
Horizontal axial flow series	• APH Series (API610)
Horizontal two-stage/three-stage	• HD Series (API610/radial division) • ST Series (API610/horizontal division)
Horizontal multistage horizontal division	• SF Series (API610)
Horizontal multistage barrel	• CF Series (API610)
Horizontal multistage ring section	• MV Series
Vertical line shaft series	• V Series (API610)
Vertical axial flow series	• APV series (API610)
vertical cantilever	• CV Series (API610)
Vertical multi-stage turbine	• SV Series (API610/Centrifugal, mixed flow) • SVD Series (API610/double suction) • TV Series
Vertical multistage barrel	• VC Series (API610) • VE Series (API610)
self-contained	• SP Series



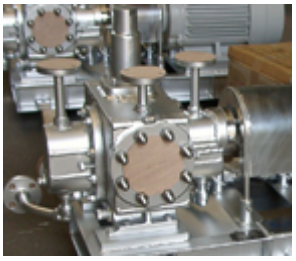

(Left): Fin-cooled bearing housing/high temperature service
(Right): Vortex induction rotor/pump interior

Inline type	• PLT Series
Horizontal	• KP Series • TP Series

Gear type pump

It is widely used in chemical industry processes such as transportation, circulation, and polymerization processes, and in harsh conditions such as the petroleum industry that conforms to API676 standards.

ARAIPUMP Rotary Gear products, which pursue high efficiency, durability, reliability and safety, meet the needs of all users who handle low to high viscosity fluids.



asphalt fluid transfer pump

Internal bearing series	• ART Series • HRT Series
External bearing series	• ARTB Series • HRTB Series (timing gear type)