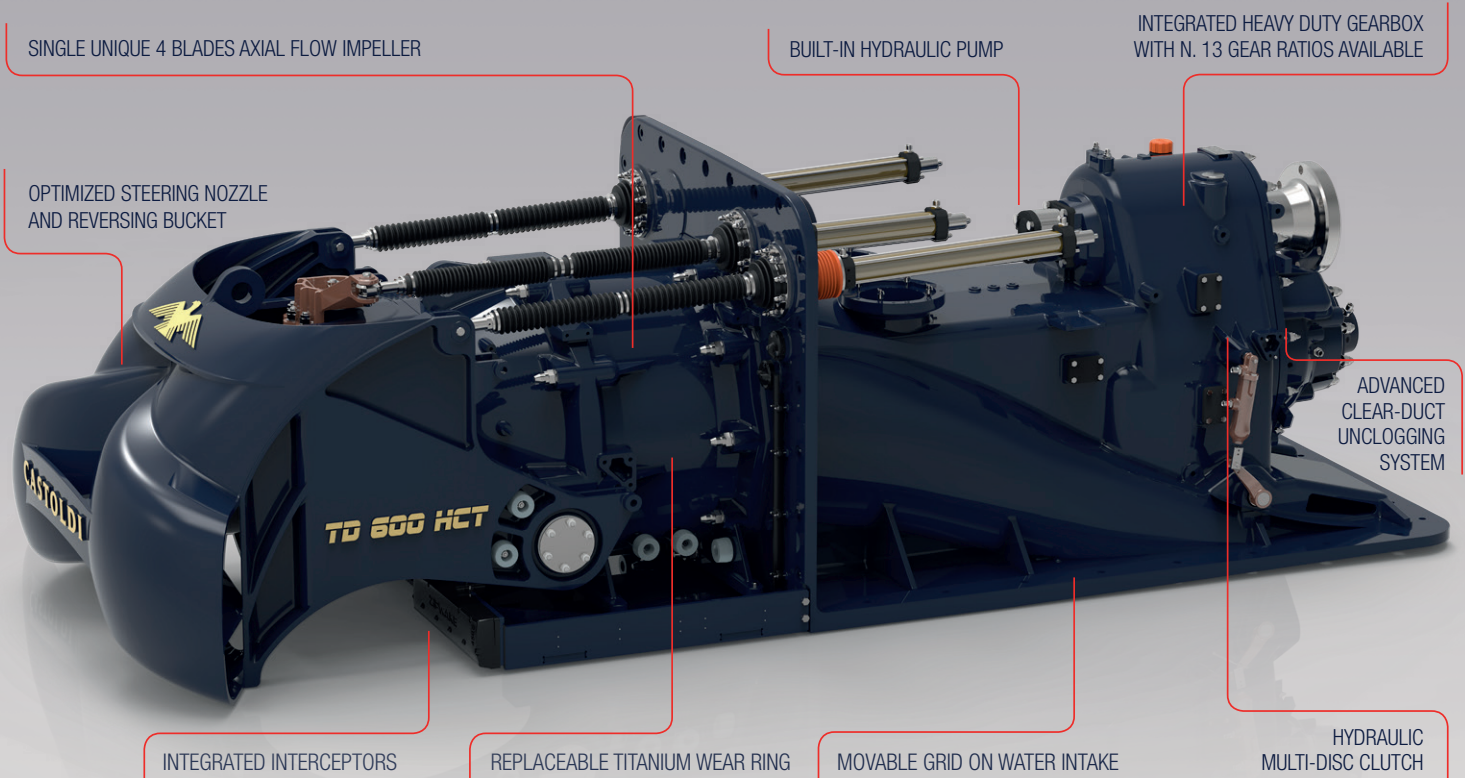


NEW

Advanced Waterjet Drive

TURBODRIVE 600 H.C.T.



MAIN PART MATERIALS

Impeller shaft	Aquamet 17 (17,4 PH) stainless steel
Steering and reversing shafts	AISI 316 L stainless steel
Impeller	Duplex micro cast stainless steel
Impeller housing wear ring	Titanium
Stator, steering nozzle and reversing bucket	G.Al.Si.7 marine grade aluminum alloy
Waterjet body, gearbox case, impeller shaft sleeve and impeller housing	G.Al.Si.9 marine grade aluminum alloy

Turbodrives 600 H.C.T., with its unique design, delivers forceful thrust, making the most of its many exclusive features, such as: the integrated gearbox with multi-disc hydraulic clutch, Clear-Duct unclogging system, B.P.R, protected shaft housing, inducer and dedicated **ACES** modular electronic control system. Costs are very attractive considering the excellence of the materials used, which include titanium and duplex stainless steel, while all aluminium alloy parts are protected by a hard anodization treatment.



TURBODRIVE 600 H.C.T.

TECHNICAL SPECIFICATIONS

Impeller	N.4 blades, single stage, axial flow
Impeller diameter	600 mm at the inlet
Stator	N. 5 blades
Integrated gearbox	With N.13 gear wheels ratio available
Input flange	Suit up to 285 mm diameter drive shaft flange
Max power input (intermittent duty)	1.985 KW (2.700 mHP)
Max power input (continuous duty)	1.655 KW (2.250 mHP)
Impeller disconnecting/connecting system	Built-in multi-disc hydraulic clutch
Transom angle	90°
Drive shaft rotation	Clockwise looking at the input driveshaft flange
Inspection hatch	N. 2, inboard
Hydraulic actuators	All inboard, waterjet mounted
Water pick-up for engine cooling	Suit 4" (101,6 mm) GAS
Hydraulic power unit and accessories	Incorporated hydraulic pump directly splined to the input shaft for the waterjet power controls. Solenoid-valves and piping complete the hydraulic plant (all inboard, waterjet mounted)
Unit dry weight (including gearbox, hydraulic clutch, water intake, grid, duct, anodes etc.)	1.650 kg
Hydraulic weight (oil pump, actuators, solenoid valves, brackets)	60 kg
Entrained water volume	385 L
Oil volume	56 kg "SAE 30" Uni-Grade oil type (gearbox and hydraulics)
B.P.R. (optional)	Additional water intake for take-off improvement
Water intake protection	Movable debris screen grid with double set of hydrodynamically profiled bars
Clear-Duct unclogging system (optional)	Superior unclogging system by simultaneous operations of impeller reversing and intake grid opening
Reversing system	Castoldi compact "Twin-Duct" reversing bucket. (75% of the forward static thrust)
Steering system	Castoldi steering nozzle integrated in a protective bowl
Full protection against marine corrosion	The whole unit is protected by a hard anodizing treatment, plating all light-alloy components with 60 microns thickness of aluminum oxide (ceramic), three layers of special paint and cathodic protection by sacrificial anodes



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