



# NEW

## Advanced Waterjet Drive

### TD 600 H.C.T.

#### CONSTANT EVOLUTION

1969

Castoldi launches the waterjet model Jet 05 which revolutionizes the waterjet market.

2017

Nearly 50 years later, with more than 40.000 units sold, Castoldi is proud to introduce the totally new Turbodrive 600 H.C.T. the largest in its range.



#Thrust #Compactness #Lightness #Durability

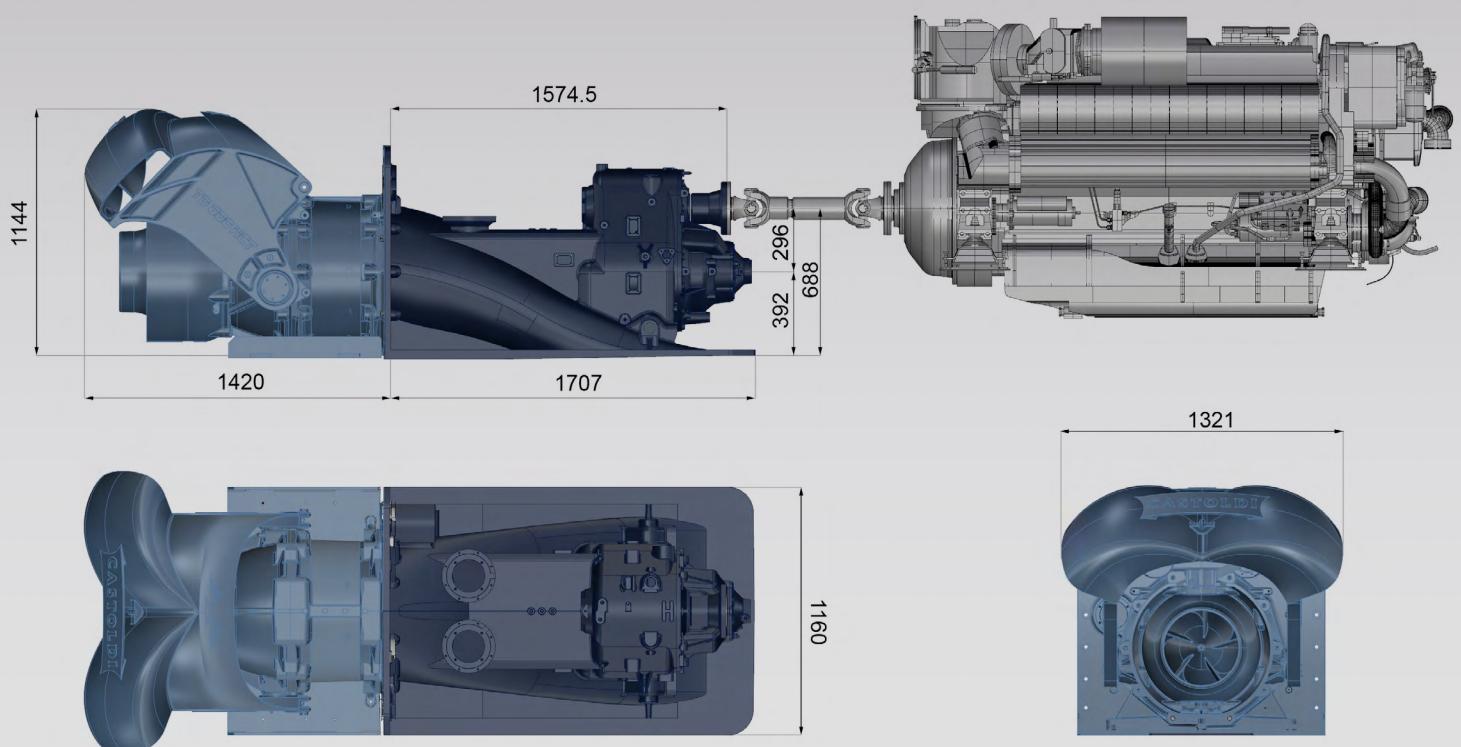


# TD 600 H.C.T.

Turbodrive 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.

## DIMENSIONS



# TD 600 H.C.T.

## TECHNICAL SPECIFICATIONS

PRELIMINARY

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