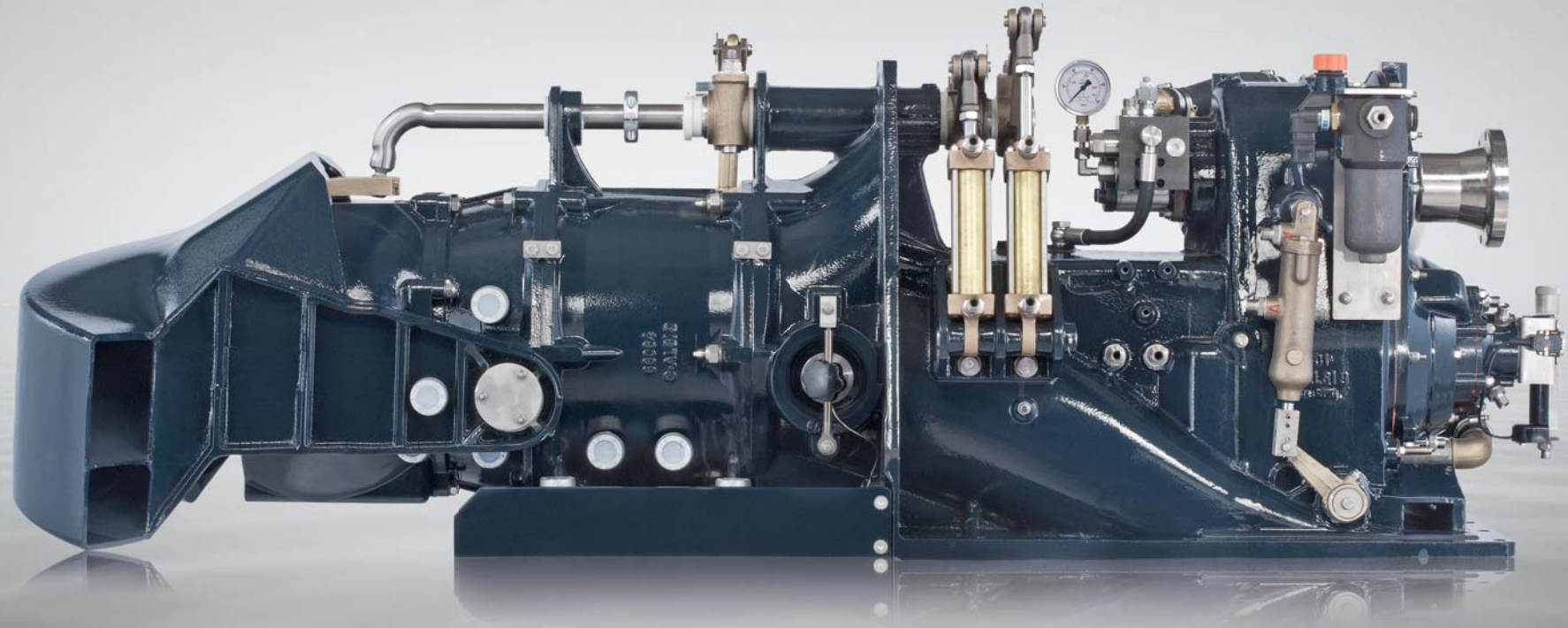


TURBODRIVE
340 H.C.
WATERJET



ADVANCED HIGHLY EFFICIENT MARINE PROPULSION SYSTEM

CASTOLDI JET

THE CASTOLDI **TURBODRIVE 340 H.C.** IS NOT ONLY THE RESULT OF ALL THE EXPERIENCE GAINED SINCE 1962 THROUGH THE SUPPLY AND INSTALLATION OF MORE THAN 40.000 WATERJETS WORLD-WIDE. IT IS THE OUTCOME OF SPECIFIC INTENSIVE RESEARCH AND DEVELOPMENT ACTIVITIES AIMED AT FURTHER IMPROVING THE HIGH EFFICIENCY OF CASTOLDI WATERJETS. THIS GOAL WAS PURSUED THROUGH SELF-PROPULSION TRIALS (USING 24 TRUE-SCALE MODELS) PERFORMED BY MEANS OF AN INSTRUMENTED LABORATORY BOAT.

AS A RESULT, THE CASTOLDI **TURBODRIVE 340 H.C.**, IS THEREFORE AN ADVANCED TOP-PERFORMANCE HIGH SPEED WATERJET. FITTED WITH A SINGLE STAGE AXIAL FLOW IMPELLER, IT CAN BE DRIVEN BY A GASOLINE OR A DIESEL ENGINE, WITH A MAXIMUM OUTPUT OF 625 KW DEPENDING ON BOAT SPEED.

THE **TURBODRIVE 340 H.C.** IS A MASS-PRODUCED UNIT IN HIGH-STRENGTH MARINE ALUMINUM ALLOY CASTINGS ALLOWING IT TO MEET THE GOAL OF BEING A LIGHT AND STRONG PROPULSION SYSTEM. IT IS PROTECTED BY THE MOST UP-TO-DATE AND SOPHISTICATED ANTI-CORROSION TREATMENTS.

THE IMPELLER, THE SHAFTS, THE GEAR WHEELS AND ALL OTHER METAL ITEMS NOT IN ALUMINUM ALLOY ARE MADE OF HIGH-GRADE STAINLESS STEEL, STEEL, TITANIUM AND BRONZE ALUMINUM ALLOY.

THE **TURBODRIVE 340 H.C.** IS EQUIPPED WITH EXCLUSIVE PARTICULARS WHICH MAKE THIS MODEL A COMPLETE, UNIQUE AND TRUE MARINE PROPULSION UNIT. THESE INCLUDE THE INTEGRATED MULTI-RATIO GEARBOX WHICH FINELY MATCHES THE POWER AND R.P.M. CHARACTERISTICS OF THE ENGINE TO THE WATERJET, THE HYDRAULIC MULTI-DISC DISCONNECTING CLUTCH FOR ENGAGING AND DISENGAGING THE UNIT, THE FLUSH MOUNTED MOVABLE GRID FOR PREVENTING THE ASPIRATION OF DEBRIS INTO THE WATERJET AND CLEANING THE INTAKE DUCT, JUST TO NAME A FEW.

IT IS ALSO EQUIPPED WITH A SPECIALLY DEVELOPED PACKAGED CONTROL SYSTEM AND OTHER EQUIPMENT WHICH ALLOW MAXIMIZATION OF ITS IMPRESSIVE INHERENT MANOEUVRING CAPABILITIES.

TURBODRIVE 340 H.C.



BENEFITS

PERFORMANCE

- The highest efficiency in the 25 to 60 knot speed range
- Much higher top speed versus fixed pitch propeller system, higher top speed versus pod-drives and competitor waterjets and consequent better fuel economy (from 25 knots and up)
- Fast acceleration
- No interference in multiple installations
- Waterjet power absorption is insensitive to boat speed meaning full thrust is maintained when boat drag changes

SAFETY

- Absence of open rotating blades
- Absence of any appendage under hull
- Unrivaled emergency crash stop capability
- Virtually invulnerable to floating debris and to unexpected boat grounding

PRACTICALITY

- Maximum endurance and protection from marine corrosion
- Ease of installation and alignment
- Operation in shallow waters and easy beaching
- Minimum service requirements
- Ease of maintenance
- Limited in-board room requirements
- Lower weight compared to any other propulsion system fitted with marine transmission
- Reduced magnetic signature
- More uniform engine loading allows for longer engine life

COMFORT

- Absence of vibration and reduced internal noise

MANOEUVRABILITY

- Outstanding maneuverability at all speeds
- Easier handling for docking (zero speed with 360° high thrust availability)
- In multiple installations, the vessel can even move sideways (no need of bow thrusters)



CASTOLDI

SINCE 1962 LEAPS AHEAD IN MARINE PRODUCTS

CASTOLDI JET

www.castoldijet.it