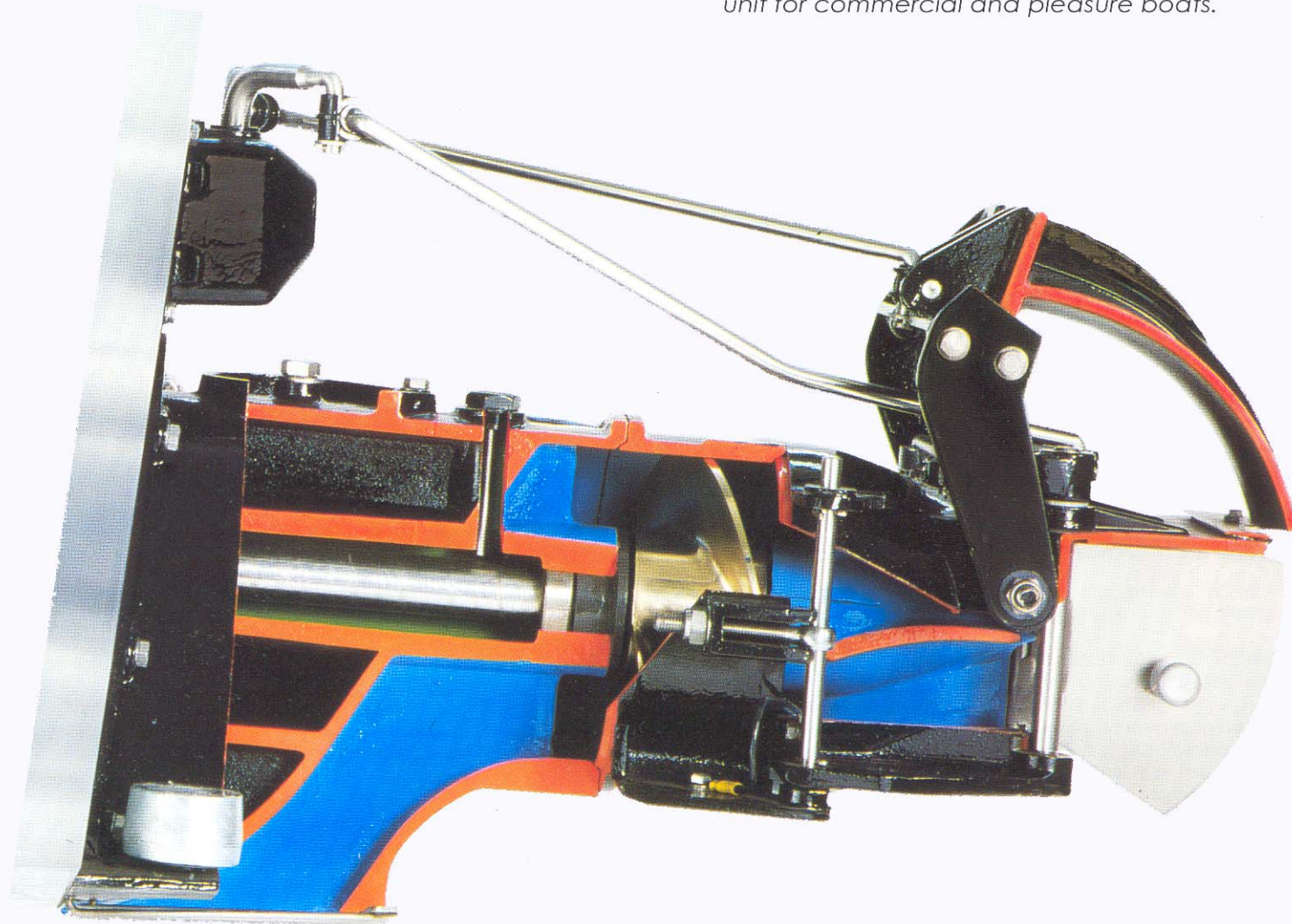
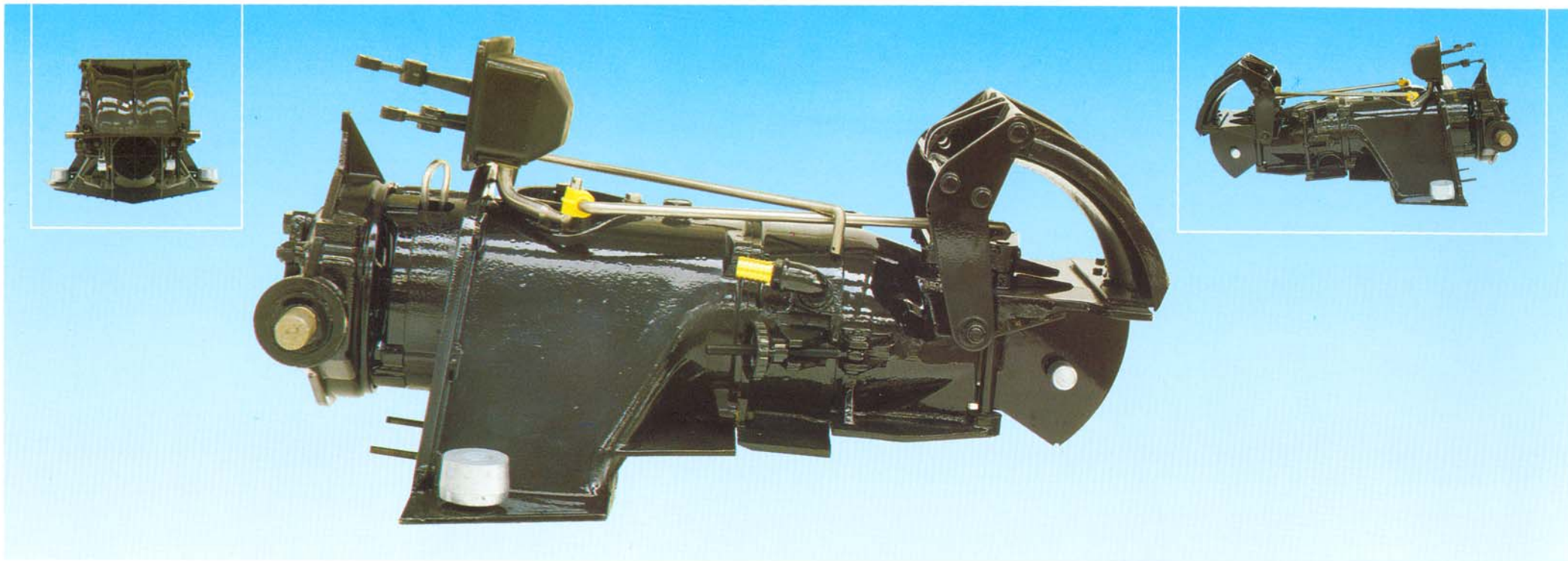


CASTOLDI JET

JET 03

Efficient and heavy duty, complete water-jet propulsion unit for commercial and pleasure boats.





SPECIFICATIONS

The Castoldi water Jet unit type "Jet 03" is the smallest unit of the Castoldi range and is the most suitable propulsion unit for small pleasure and work boats, having both semi-planing and planing hulls.

The easiness of installation, the very low maintenance required and the long life are its most important characteristics.

The water Jet unit type "Jet 03" can be coupled to diesel and petrol engines developing a power from 10 up to 60 HP (depending on the r.p.m.).

The inspection to check the impeller or to clean the duct is very easy: it's possible to open the unit staying in the boat.

The unit can be driven either directly by means of a tiller for the control of the steering deflectors of the reversing deflector and of the throttle by an handle as for motorcycles or by remote controls by means of the purposely developed and practical Castoldi control systems.

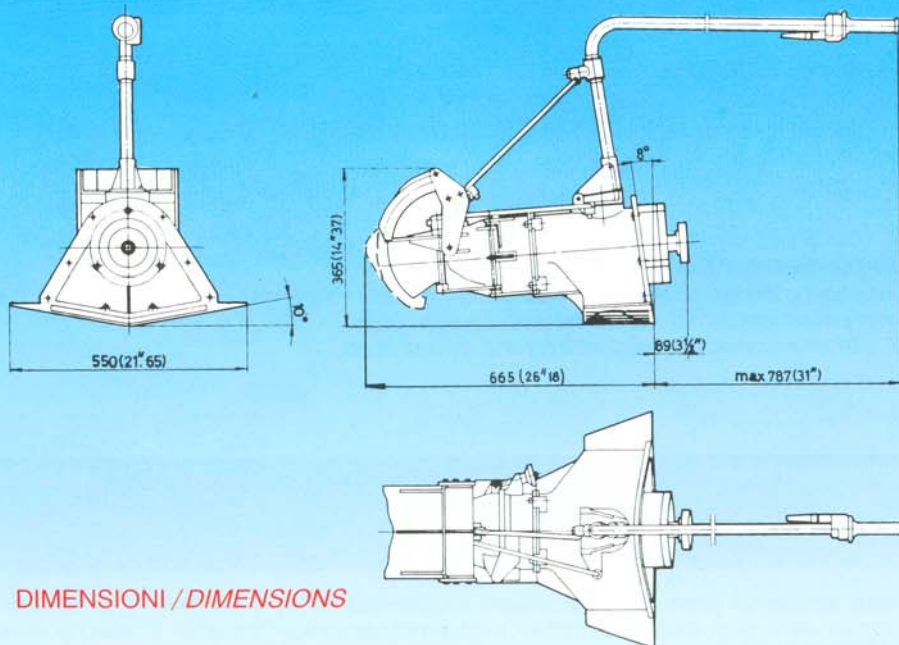
Jet 03 casting is made of super tough light weight special aluminum alloy which is given the most sophisticated anti-corrosion finish possible being hard anodized up to 60 microns and becoming by this way very durable.

The installation of Jet 03 is the simplest one: the unit is mounted completely out of the transom of the boat.

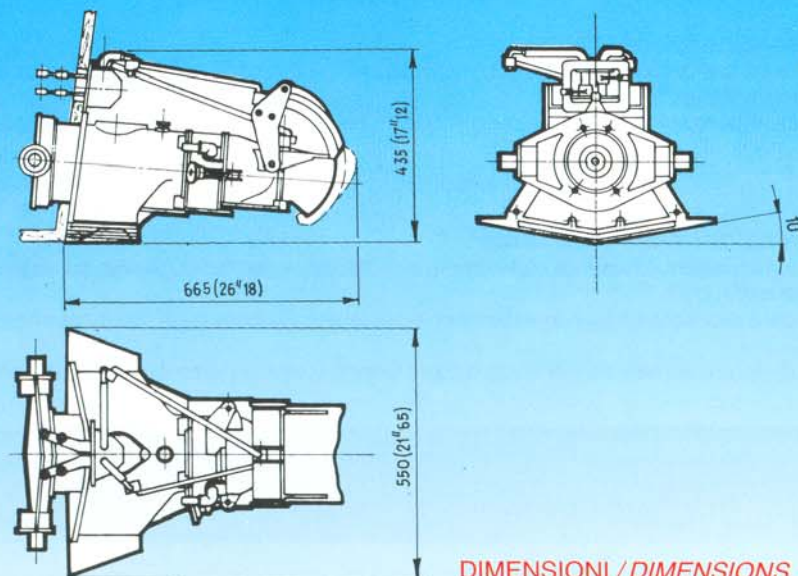
This allows the quickest installation (only one hole through the transom) gives the minimum in board room requirement and the option by easily adjusting the jet mounting, to vary and optimize the boat trim.

TECHNICAL DATA

- Pump type: axial flow.
- Impeller diameter (at the inlet): 163 mm.
- Impeller blades: n. 3 or 2.
- Suitable engines:
 - Gasoline or diesel engines with power from 10 to 60 HP (7,5 up to 44 Kw).
 - Depending on boat characteristics; R.P.M'S from 1.800 to 6.000 depending on engine power.
- Unit weight (dry): 25 Kg. (with Durethan impeller).
- Volume of water contained in the jet duct: 7 Liters.
- Volume of oil contained into the unit: 0,5 Liter.
- Transom angle: $11^{\circ} 30'$.
- Rotation of the Jet unit impeller shaft: clockwise looking the front of the unit.
- Direction of shaft rotation of suitable engines: counter clockwise only.
- Construction material:
 - Casing: Aluminum alloy
 - Impeller: Durethan, Aluminum, Bronze, Stainless steel
 - Impeller shaft: Stainless steel
- Corrosion protection:
 - A) Hard anodizing treatment on all the aluminum alloy parts (60 Microns).
 - B) 4 layers of special paint.
 - C) Cathodic protection with zinc anods.



DIMENSIONI / DIMENSIONS



DIMENSIONI / DIMENSIONS



STANDARD FITTINGS

- Durethan, bronze, aluminum, or stainless steel impeller
- Set of zinc anodes



SCOPE OF USE

1) Planing boats

Capable of at least 20 Knots. Degrees of deadrise of the hull at the transom: 10 (suggested).

Planing boats	1 × Jet 03
Maximum suggested A.U.W. (Kg) (All Up Weight of the boat, means its full displacement, including people, fuel, equipment)	900
Average length of the boat (meters)	3/5
Maximum suggested weight to power ratio (Kg per horse power)	13
Maximum suggested power input HP (Kw)	60 (44)

2) Semi-planing boats

Hull drag for these boats is usually higher than for planing ones.
Therefore a lighter A.U.W. than for planing boats should be considered.

3) Displacement boats

For these boats, the speed depends more on efficient hull shape than on input power or A.U.W.
The input power should not exceed the bollard power value.
A.U.W. can be increased for efficient long and narrow boats.

Displacement boats	1 × Jet 03
Maximum suggested A.U.W. (Kg)	1.500
Maximum suggested power input HP (Kw)	50 (37)

Installation

One hole only on the transom is sufficient for installing the unit.

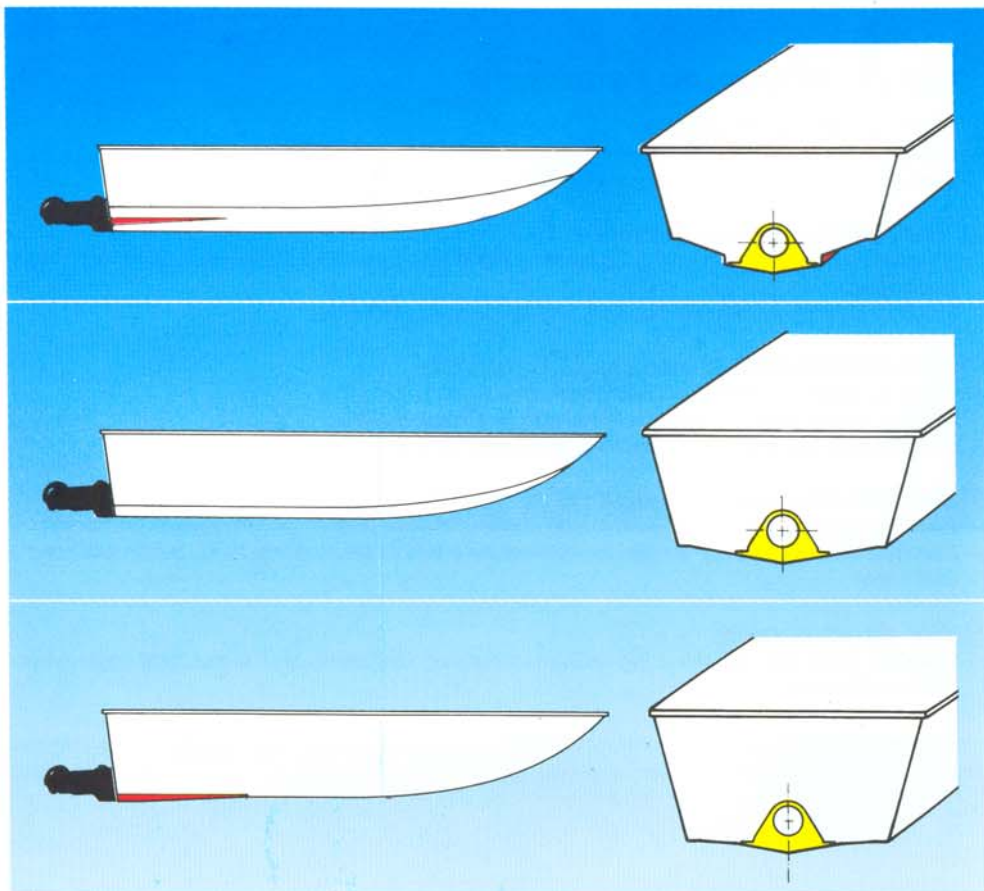
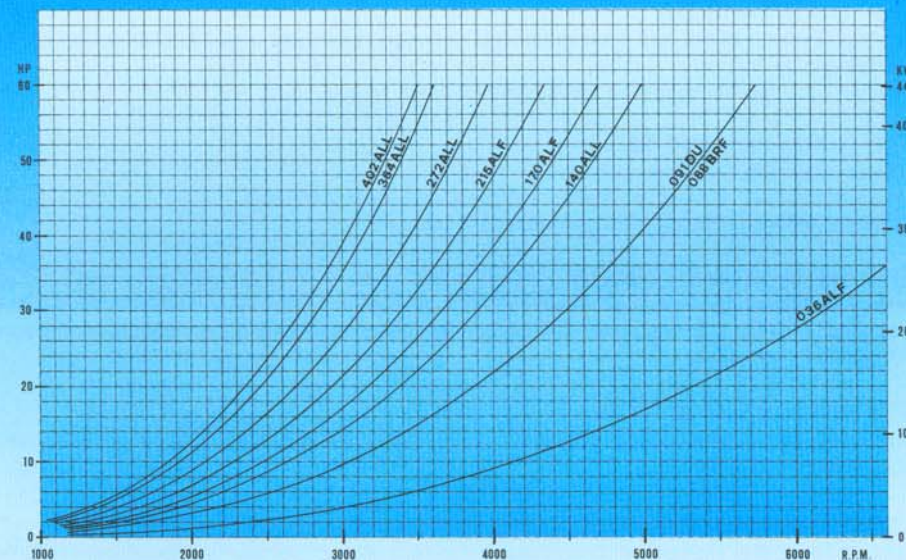


DIAGRAMMA PER LA SELEZIONE DELLA GIRANTE IMPELLER SELECTION CHART



IMPELLER SELECTION CHART

To match a given engine with the proper Jet unit impeller, first locate net horse power of engine on horizontal grid line, then locate operating R.P.M. on vertical grid line. The point of intersection of the two grid lines will indicate the suitable Jet unit impeller for the horse power and operating R.P.M. of the engine.



STANDARD EQUIPMENT

A) For remote side control

- Castoldi single lever box for reversing gate, and throttle control with cables.
- Castoldi steering wheel with support, pinion and rake with cable.

B) For remote central control

- Castoldi twin lever for reversing deflector control with cable and for throttle control with push pull-cable.
- Castoldi steering wheel with support, pinion and rake with cable.

C) For remote central control (J.T. version)

- Pedal for reversing deflector control with cable
- Ultraflex single lever for throttle control with push-pull cable.
- Castoldi steering wheel with support, pinion and rake with cable.

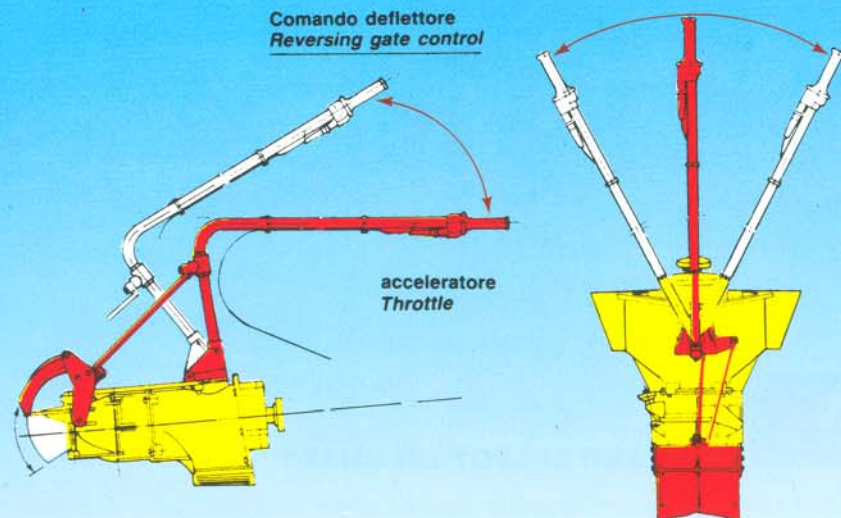
D) For remote central control (W.R. version)

- Pedal for reversing deflector control with cable.
- Stainless steel handle bar for steering deflectors control with motorcycle - type throttle control with cable.

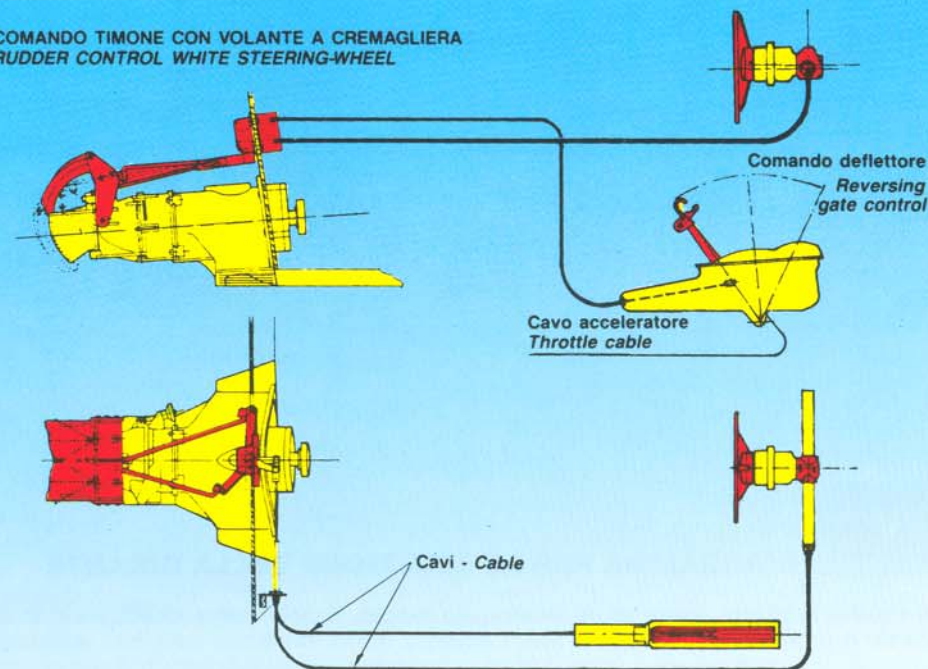
E) For direct control

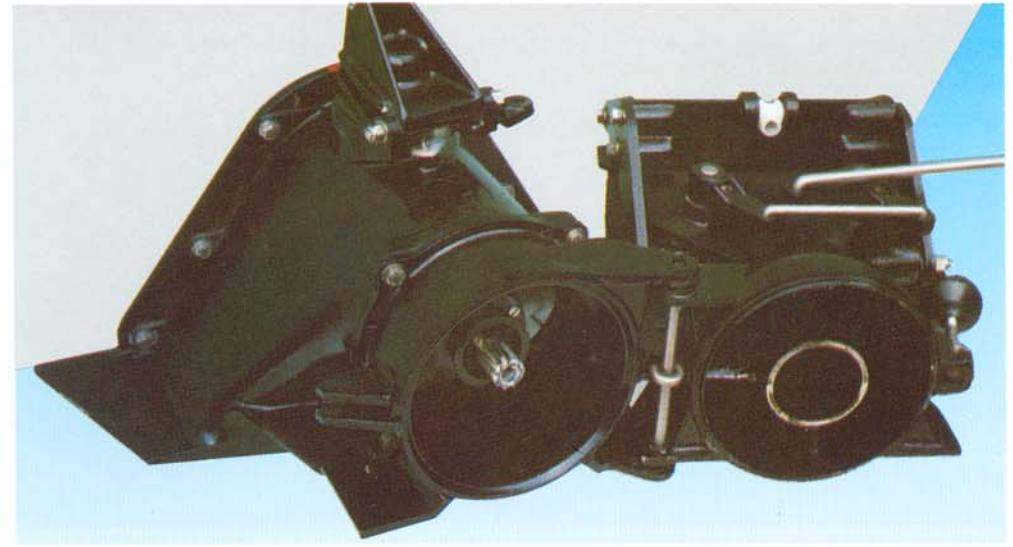
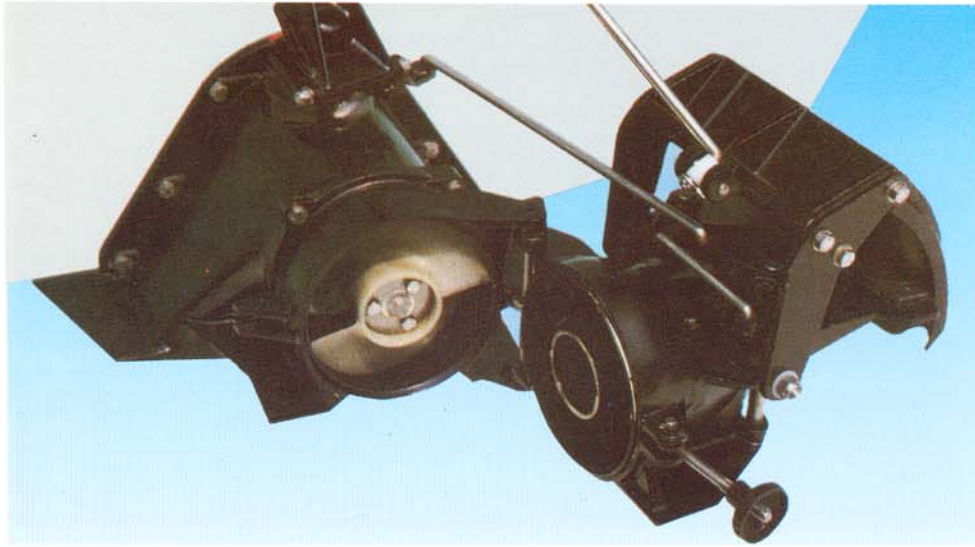
- Stainless steel tiller for reversing deflector, steering deflectors and motorcycle-type throttle control with cable.

COMANDO TIMONE A BARRA
RUDDER CONTROL WHITE TILLER ARM



COMANDO TIMONE CON VOLANTE A CREMAGLIERA
RUDDER CONTROL WHITE STEERING-WHEEL





VII

OPTIONAL EQUIPMENT

- Extension in length of cables.
- Engine flywheel adaptors (engine must be unprovided with marine transmission).
- Cardan shafts or constant velocity joints.

TO ORDER, QUOTE

- Max. brake horse power and corresponding R.P.M. of the engine.
- Required optional equipment.
- Length of cables.

VIII

CASTOLDI JET 03 ADVANTAGES

- Higher top speeds for planing boats.
- Limited in board room requirement.
- Outstanding manoeuvrability at all speed and sea keepness.
- Easy installation.
- The widest operating range, from offshore to shallow inshore waters.
- The maximum active and passive safety.
- Low under water noise.
- Power braking ability.
- Absence of vibrations caused by propellers, V drives and axes subjected to bending and torsional stresses.
- Maximum reliability, low vulnerability endurance.
- Minimum service requirement.
- Easy maintenance.



CASTOLDI S.p.A. withhold the right to introduce, at any time and without previous notice, such modifications of components and accessories as might be deemed necessary for technical or commercial reasons, without any obligation to bring up-to-date this leaflet.

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