



## Confirmation of Product Type Approval

**Company Name:** TRANSFLUID S.P.A.

**Address:** VIA GUIDO ROSSA, 4 GALLARATE 21013 Italy

**Product:** Reduction Gear

**Model(s):** HM560, HTM1000, HM2000, HM3350, HM6300

**Endorsements:** Smart

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	26-0421898-PDA	15-JAN-2026	14-JAN-2031
Manufacturing Assessment (MA)	25-6875876	27-FEB-2025	26-FEB-2030
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

5 - Unit Certification Required

### **Intended Service**

Non reversing torque transmission with 0 degree horizontal offset

### **Description**

Engine mounted transmission module comprising a front disconnect clutch, transmission shaft, and output flange housed within a main casing made in nodular cast iron.

Standard SAE mountings (J617 housing flanges, SAE J620 input/output interfaces).

The unit is equipped with roller bearings.

Models HTM1000, HM2000, HM3350, and HM6300 are arranged for oil#bath lubrication of auxiliary gearing associated with PTO/PTI functions (PTO/PTI equipment is not included within the scope of this certificate). Model HM560 is arranged for belt#driven transmission to PTO/PTI devices (not included within the scope of this certificate).

This certificate applies exclusively to a 1:1 transmission ratio, without reversal of rotation, no horizontal offset, and with no PTO/PTI equipment installed.

### **Ratings**

Refer to attached document

### **Service Restrictions**

Unit Certification is required for this product.

Factory Acceptance Tests required for Unit Certification are as per 4-3-1/9.7.1 ii) of the Marine Vessel Rules.

**Comments**

- 1) Intended for multiple propulsion unit installations only.
- 2) Not to be used for ice-class applications, unless additional specific review is satisfactorily carried out.
- 3) Bearing life lifetime data accepted on basis of proposed bearing inspection and replacement program in accordance with intermittent service profile as specified in attached document.
- 4) In case of failure to the clutch control system, transmission will automatically reduce the propeller speed to zero, this is acceptable only for vessels having Length less than 90 meters.
- 5) A nameplate is to be fixed on each unit.
- 6) The manufacturer has provided a declaration about the control of, or the lack of asbestos in this product.

**Notes, Drawings and Documentation**

See attached drawing list.

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 14/Jan/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA





Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Feb-2026 5:12

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.