

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Reduction Gear for Propulsion**

with type designation(s)

DMT240H / DMT260H / DMT260HL / DMT280H / DMT280HL

Issued to

D-I Industrial Co., Ltd.**Jinju-si Gyeongsangnam-do, Republic of Korea**

is found to comply with

DNV GL rules for classification – Ships**Application :****The approval is valid for propulsion use.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Input torque****Input speed****Reduction ratio**Issued at **Høvik** on **2017-11-07**This Certificate is valid until **2022-06-30**.for **DNV GL**DNV GL local station: **Gimhae Station**Approval Engineer: **Nadine Grace Mosteiro Halvorsen****Oddvar Deinboll**
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Single stage reduction gears for propulsion with built-in hydraulic operated clutch and reversing gear.

Application/Limitation

The gears are approved for an application factor $K_A=1.20$

Gear	Reduction ratio [Z1/Z2]	Input speed [RPM]	Torque [Nm]
DMT240H	25/85	2300	1750
	28/82	2300	2000
	37/73	2300	2150
DMT260H	23/75	2300	2535
DMT260HL	23/104	2300	2510
	25/102	2300	2535
DMT280H	23/75	2300	2625
	25/73	2300	2840
	28/70	2300	2925
DMT280HL	23/104	2300	2510
	25/102	2300	2750
	28/99	2300	2925

Type Approval documentation

Marking of product

Manufacturers name or trademark and type number designation.

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

Other conditions

The following items are not covered by the Type Approval:

- Connections to external shafts
- Ice class notations
- Control and monitoring system
- Mounting/installation of gearbox

END OF CERTIFICATE