



PT. BIRO KLASIFIKASI INDONESIA (Persero)

HEAD OFFICE

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Phone : (021) 4301017, (021) 4361903, Fax : (021) 43932509
E-mail : ho@bki.co.id
Website : www.bki.co.id

Reff No. : B. 03998/PS.303/KI-20
Attachments(s) : 10 (ten) Set of Certificate
Subject : DESIGN APPROVAL CERTIFICATE

Jakarta, 15 April 2020

D-I INDUSTRIAL CO.,LTD.
13, Namgang-ro 1367 Beon-gil,
Jinju-si, Gyeongsangnam-do,
KOREA 52781

1. We would like to thank you for your interest and commitment to have your product to be approved by PT. Biro Klasifikasi Indonesia (Persero). Following your application and completion of approval process, we are glad to inform you that your product have already met the requirements and BKI has issued design approval certificate for the following products :

Products	Grade	No. of Approval Certificate	No. of Approval
Reduction Gear for Diesel Propulsion	DMT280H	00037.20.TP00463	00011DA20
	DMT300HL	00038.20.TP00464	00012DA20
	DMT330HL	00039.20.TP00465	00013DA20
	DMT400H	00040.20.TP00466	00014DA20
	DMT430H	00041.20.TP00467	00015DA20
	DMT450DL	00042.20.TP00468	00016DA20
	DMT460HL	00043.20.TP00469	00017DA20
	DMT550H	00044.20.TP00470	00018DA20
	DMT561HL	00045.20.TP00471	00019DA20
	DMTP6500	00046.20.TP00472	00020DA20

2. BKI will cancel the approval certificate when the following conditions occur :
 - a. The approval fees are not paid.
 - b. Design or material of product was changed or modified with out notice to BKI.
 - c. When a request for withdrawal is made by manufacturer.
3. After this approval, when you want to supply the above marine gears that need to be provided with BKI certificate, you have to send application to BKI Branch Office together the copy of approval certificate.
4. Thank you for your kind attention and cooperation. We are looking forward to productive partnership and wish you a lot of success with your products.

o.b. Operation Director
On behalf
VP of Material & Component Division

IR. ARIEF BUDI PERMANA
NUP. 42896-KI



BIRO KLASIFIKASI INDONESIA

SERTIFIKAT PERSETUJUAN DESAIN

Design Approval Certificate

No. 00042.20.TP00468

No. Persetujuan : 00016DA20
Approval no.

Tanggal persetujuan : 31 March 2020
Date of approval

Dengan ini dinyatakan bahwa desain dari produk dibawah ini telah disetujui berdasarkan
This is to certify that the design of following products has been approved in accordance with
persyaratan dari Peraturan dan/atau Standard yang tercantum dibawah ini
requirements of the Rules and / or Standards listed below

Produk : **Reduction Gear for Diesel Propulsion**
Product

Pembuat : **D-I INDUSTRIAL CO., LTD.**
Manufacturer 13, Namgang-ro 1367 Beon-gil, Jinju-si, Gyeongsangnam-do, Korea. 52781

Tipe produk : **DMT450DL**
Type designation

Standard persetujuan : Rules for Machinery Installations (Pt. 1, Vol. III)
Approval standards Guidance for The Approval and Type Approval of Materials and Equipment
for Marine Use (Pt. 1, Vol W)

Sertifikat ini berlaku hingga tanggal yang ditetapkan di bawah dengan syarat jika terdapat
This certificate remains valid until the date set below provided that if there are
perubahan atau modifikasi pada produk harus segera diberitahukan ke BKI.
any alterations or modifications to the approved product, BKI shall be notified immediately.

Sertifikat ini berlaku sampai dengan : **30 March 2025**
This certificate is valid until

Jakarta, 13 April 2020

a.n. Direktur Operasi
Kepala Departemen Operasi Klasifikasi
b.b. Operation Director
SVP of Classification Operation

ARIEF BUDI PERMANA

Catatan : Sertifikat ini terdiri dari 3 halaman
Note This certificate is consist of 3 pages

Jika Peraturan atau Standard yang digunakan dalam proses persetujuan mengalami perubahan pada saat sertifikat ini masih berlaku, maka produk harus dilakukan persetujuan ulang
sebelum dapat dipasang dikapal dimana Peraturan atau Standard tersebut berlaku.
Should the specified Rules or Standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended Rules or Standards apply.



Lampiran
Annex to
Sertifikat Persetujuan Desain
Design Approval Certificate

No. Sertifikat : **00042.20.TP00468**
No. of certificate

No. Persetujuan : **00016DA20**
Approval no.

Deskripsi Produk

Product Description

1. Reduction Gear for Diesel Propulsion

Model	Reduction Ratio	Speed (RPM)	Power (kW)	Input Torque (N.m)
DMT450DL	3.02	2400	1116.5	4443.0
	3.28		1116.5	4443.0
	3.56		1116.5	4443.0
	4.07		1116.5	4443.0
	4.48		1008.3	4012.0
	4.95		921.8	3667.0

2. Approved Drawing No. : 2041010079

Lingkup Persetujuan

Scope of Approval

1. The materials for the main components are to be complied with the requirements of the Rules for Machinery Installations (Pt. 1, Vol. III) or to be satisfactory to the surveyor.
2. Materials for the main components are to be certified by BKI or to be satisfactory to the Surveyor.
3. Spare parts are to be supplied in accordance with the Rules applicable to the vessel in which the gearbox is installed.
4. Each gearbox to be supplied to vessels classed by BKI shall be provided with individual product certificate.