



BIRO KLASIFIKASI INDONESIA

SERTIFIKAT PERSETUJUAN TIPE Type Approval Certificate

☒ ACS ☐ Non ACS

No. 00060.22.TP00394

No. Persetujuan : 00402TA22
No. of Approval

Tanggal Persetujuan : 25 Maret 2022
Date of Approval

Dengan ini dinyatakan bahwa produk dibawah ini telah memenuhi dan disetujui berdasarkan
This is to certify that the following products has been complied and 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 : DMT
Type Designation

Standard Persetujuan : Rules for Approval of Manufacturers and Service Suppliers (Pt.1, Vol.XI)
Approval Standards
Rules for Machinery Installations (Pt.1, Vol.III)

Sertifikat ini berlaku hingga tanggal yang ditetapkan di bawah dengan syarat pemeriksaan periodik
This certificate remains valid until the date set below provided that periodical surveillances
dilakukan tepat waktu dan setiap perubahan atau modifikasi pada produk diberitahukan ke BKI.
are carried out on time and any alterations or modifications to the approved product notified to BKI

Sertifikat ini berlaku sampai dengan : 24 Maret 2027
This certificate is valid until



Jakarta, 28 Maret 2022

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


ARIET BUDI PERMANA
NUP:42896-KI

Catatan : Sertifikat ini terdiri dari 6 halaman
Note This certificate is consist of 6 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.

Lembar Pengukuhan

Endorsement Sheet

Harus dikukuhkan oleh Surveyor BKI
To be endorsed by BKI Surveyor

Pemeriksaan Periodik (24 Maret 2024 s/d 24 Maret 2025)
Periodical Surveillance (24 March 2024 until 24 March 2025)

No. Laporan: 00548-TP/CI/2025
Report No.

Tanggal : 18-09-2025
Date


354

Surveyor: Yasin Besari

Catatan : Sertifikat akan ditangguhkan secara otomatis jika tidak dikukuhkan dalam rentang waktu yang telah ditetapkan diatas.
Note The certificate will be automatically suspended if not endorsed within the specified time period above.



Lampiran

Annex to

Sertifikat Persetujuan Tipe

Type Approval Certificate

No. Sertifikat : 00060.22.TP00394
No. of Certificate

No. Persetujuan : 00402TA22
Approval No.

Deskripsi Produk

Product Description

1. Reduction Gear for Diesel Propulsion:

DMT 25AL, DMT 50A, DMT 90A, DMT 100HL, DMT 110A, DMT 240H, DMT 260H, DMT 260HL, DMT 280H, DMT 300HL, DMT 330DL, DMT 400H, DMT 430H, DMT 450DL, DMT 460HL, DMT 550H, DMT 561HL, DMT 600BL, DMT 600DL, DMT 6500.

Kondisi Persetujuan

Condition of Approval

1. The approval are given for the Reduction Gear for Diesel Propulsion with following main data:

DMT 25AL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 25AL	1.64	3500	89.7	245.3
	2.07		89.7	245.3
	2.52		89.7	245.3
	2.96		89.7	245.3
	3.32		89.7	245.3

DMT 50A

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 50A	1.61	3000	169.3	539.5
	2.06		169.3	539.5
	2.45		169.3	539.5
	2.82		169.3	539.5
	3.12		169.3	539.5
	3.46		169.3	539.5

DMT 90A

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 90A	1.61	3000	282	900
	2.06		282	900
	2.45		282	900
	2.82		282	900
	3.12		282	900
	3.46		282	900

DMT 100HL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 100HL	4.07	3000	274.8	858
	4.50		274.8	858
	4.95		274.8	858
	5.29		274.8	858
	5.94		274.8	858

DMT 110A

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 110A	1.77	2800	316	1079
	2.09		316	1079
	2.42		316	1079
	2.82		316	1079
	3.19		316	1079
	3.81		316	1079

DMT 240H

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 240H	1.50	2300	516	2146
	1.97		516	2146
	2.44		516	2146
	2.93		516	2146
	3.40		516	2146

DMT 260H

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 260H	2.06	2300	614	2550
	2.50		614	2550
	2.92		614	2550
	3.26		610	2550

DMT 260HL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 260HL	3.53	2300	614	2550
	4.08		610	2535
	4.52		610	2535
	5.04		610	2535

DMT 280H

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 280H	2.06	2500	765.0	2922.0
	2.50		765.0	2922.0
	2.92		765.0	2922.0
	3.26		765.0	2922.0

DMT 300HL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 300HL	2.61	2300	732.2	3040.1
	3.10		732.2	3040.1
	3.56		703.8	2922.4
	4.13		689.6	2863.6
	4.59		675.5	2804.8

DMT 330DL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 330DL	2.61	2400	813.3	3236
	3.10		813.3	3236
	3.56		813.3	3236
	4.13		813.3	3236
	4.59		764.0	3040

DMT 400H

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 400H	1.43	2300	1070.0	4442.6
	1.72		1070.0	4442.6
	2.03		1070.0	4442.6
	2.46		951.9	3952.2
	2.75		762.9	3167.7
	PTO 0.92	1800	110.9	588.4
	PTO 0.78		110.9	588.4

DMT 430H

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 430H	2.06	2400	1116.0	4443.0
	2.44		1116.0	4443.0
	2.93		1116.0	4443.0
	3.23		1060.0	4218.0
	3.40		1006.0	4001.0

DMT 450DL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 450DL	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

DMT 460HL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 460HL	3.02	2300	1069.0	4443.0
	3.28		1069.0	4443.0
	3.56		1069.0	4443.0
	4.07		1069.0	4443.0
	4.48		966.0	4012.0
	4.95		883.0	3667.0

DMT 550H

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 550H	1.43	2300	1301.4	5403.6
	1.64		1301.4	5403.6
	1.81		1301.4	5403.6
	2.03		1301.4	5403.6
	2.33		1268.3	5266.3
	2.60		1145.5	4756.3
	2.91		954.2	3962.0

DMT 561HL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 561HL	3.02	2300	1299.0	5393.8
	3.28		1299.0	5393.8
	3.56		1299.0	5393.8
	4.07		1299.0	5393.8
	4.48		1242.4	5158.4
	4.95		1027.4	4266.0

DMT 600BL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 600BL	4.12	2300	1476.5	6130
	4.48		1476.5	6130
	5.11		1388.4	5764
	5.62		1287.8	5346
	5.91		1179.3	4896

DMT 600DL

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMT 600DL	2.28	2300	1476.5	6130
	2.53		1476.5	6130
	3.02		1476.5	6130
	3.28		1476.5	6130
	3.56		1476.5	6130
	4.07		1476.5	6130
	4.48		1450.3	6021
	4.95		1318.0	5472

DMTP 6500

Model	Reduction Ratio	Speed (rpm)	Power (kW)	Input Torque (N.m)
DMTP 6500	5.11	2300	609.3	2530.2
	5.62		609.3	2530.2
	5.91		609.3	2530.2
	6.57		562.1	2334.0
	6.95		562.1	2334.0
	PTO	1	1800	110.9
	PTO	0.78		588.4
			110.9	588.4

- Materials for main components are to be certified by BKI or to be satisfactory to the BKI surveyor.
- Test and final inspection of each product shall be carried out in accordance with BKI Rules for Machinery Installations (Pt.1, Vol.III).
- The manufacturer issues test report upon successful testing of each product which obtain validity only after endorsement and registration by BKI.
- The spare part are to be furnished in accordance with the Rules applicable to the vessel in which the product is installed.
- Individual product certification is required.
- Tests and inspections for each product is to be carried out by the manufacturer in accordance with the requirements of BKI Rules or manufacturer's procedure for maintaining approval of Alternative Certification Scheme (ACS) approved by BKI.

Dokumentasi Persetujuan*Approval Documentation*

- BKI Approval Document No. 2041010015.
- BKI Assessment Report No. 00394-TP/C1/2022.
- Procedure for maintaining approval of Alternative Certification Scheme (ACS) approved by BKI.

Penandaan Produk*Marking of Product*

The product is to be marked with manufacturer's name or trademark, serial number, the last date of examination and the BKI's identification no. and stamp.

Pemeriksaan Periodik*Periodical Surveillance*

For retention of the approval, a BKI Surveyor shall conduct periodical surveillance to verify that approved documentation, quality system, etc. of the manufacturing works are maintained satisfactorily.

The main scope of the periodical surveillance will normally include:

- Verification of the manufacturer's production and quality system with regard to ensure continued consistent production of the products at the manufacturer's premises.
- Review of the approval documentation and that this is still used as basis for the production.
- Review of possible changes to the properties of the product.
- Verification of the product marking.