

D-I INDUSTRIAL CO., LTD.

13, Namgang-ro 1367 beon-gil, Jinju-si,

Gyeongnam-do, Korea

Our Ref. No.: TA24314M

Date: 21 June 2024

Subject : Standardized Design Approval of Marine Reduction Gear DMT561HL, DMT600DL, DMT600BL (Initial approval)

Reference : Your application dated on 27 Oct. 2023

Dear Sir,

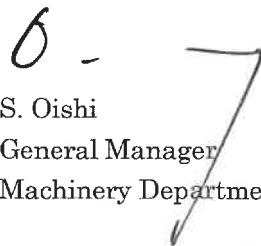
We are pleased to inform you that the design of the product described below has been examined satisfactorily in accordance with the relevant requirements of the Society's Rules and approved as standardized design in line with Chapter 1, Part 6 of Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use.

Product : Marine Reduction Gear
Type : DMT561HL, DMT600DL, DMT600BL
Particulars : See the attached sheets.
Drawing No. : See the attached sheets.
Approval No. : 24EE007A
Rules : Chapter 5 & Chapter 6, Part D of Rules for the Survey and Construction
Steel Ships, 2024 Edition
Valid until : 21 June 2029
The validity of this approval may cease automatically when the relevant requirements of the Society's Rules are revised.

You are kindly requested to notify us when the above product is manufactured to be installed onboard any NK classed ships.

This approval does not waive a certification of each product required by 5.5.1, Part D of NK Rules.

Sincerely yours,



S. Oishi
General Manager
Machinery Department

Enclosures: Approved Drawings/ Documents

Cc: ClassNK Busan Office (NK ID: 623200995)

Attached sheet to letter Ref. No. TA24314M (1/3)

Particulars:

Manufacturer		D-I INDUSTRIAL CO., LTD.	
Type		DMT561HL	
Max. Input Power & Speed (kW×rpm)	Gear Ratio (Number of Teeth)	1299.1×2300	3.02 (34 : 103)
		1299.1×2300	3.28 (32 : 105)
		1299.1×2300	3.56 (30 : 107)
		1299.1×2300	4.07 (27 : 110)
		1204.6×2300	4.48 (25 : 112)
		1027.5×2300	4.95 (23 : 114)

Manufacturer		D-I INDUSTRIAL CO., LTD.	
Type		DMT600DL	
Max. Input Power & Speed (kW×rpm)	Gear Ratio (Number of Teeth)	1476.5×2300	2.28(42 : 96)
		1476.5×2300	2.53(39 : 99)
		1476.5×2300	3.02(34 : 103)
		1476.5×2300	3.28(32 : 105)
		1476.5×2300	3.56(30 : 107)
		1452.6×2300	4.07(27 : 110)
		1287.3×2300	4.48(25 : 112)
		1188.1×2300	4.95(23 : 114)

Manufacturer		D-I INDUSTRIAL CO., LTD.	
Type		DMT600BL	
Max. Input Power & Speed (kW×rpm)	Gear Ratio (Number of Teeth)	1476.5×2300	4.12 (31 : 128)
		1476.5×2300	4.48 (29 : 130)
		1386.5×2300	5.11 (26 : 133)
		1287.3×2300	5.62 (24 : 135)
		1181.0×2300	5.91 (23 : 136)

Drawings/Documents:

TYPE	Title of Drawings and documents	Drawing No.
DMT561HL	MARINE TRANSMISSION	NK 561000-1
	MARINE TRANSMISSION	NK 561000-2
	Hydraulic Circuit Diagram	NK 561000-3
	INPUT SHAFT GROUP	NK 560100A~F
	ASTERN SHAFT GROUP	NK 560200A~F
	PINION, ASS'Y	NK 550117A
	PINION, ASS'Y	NK 550117B
	PINION, ASS'Y	NK 550117C
	PINION, ASS'Y	NK 550117D
	PINION, ASS'Y	NK 550117E
	PINION, ASS'Y	NK 550117F

Attached sheet to letter Ref. No. TA24314M (2/3)

DMT561HL	CLUTCH HOUSING, input	NK 550103
	CLUTCH HOUSING, astern	NK 550203
	SHAFT, input	NK 550102
	SHAFT, astern	NK 550202
	PLATE, sintered	NK 400107
	PLATE, sintered	NK 400108
	OUTPUT SHAFT DROUP	NK 550300A~F
	GEAR, output	NK 550302A, B
	GEAR, output	NK 550302C
	GEAR, output	NK 550302D~F
	SHAFT, output	NK 550301
	COUPLING, input	NK 550008
	COUPLING, output	NK 550306
	CASE	NK 561001
	COVER, CASE	NK 561004
CARRIER, bearing	NK 550006	
DMT600DL	MARINE TRANSMISSION	NK W600000-1
	MARINE TRANSMISSION	NK W600000-2 (A~E, H TYPE)
	MARINE TRANSMISSION	NK W600000-2 (F, G TYPE)
	Hydraulic Circuit Diagram	NK W600000-3
	INPUT SHAFT ASS'Y	NK W600100
	ASTERN SHAFT ASS'Y	NK W600200
	PINION	NK W600117A
	PINION	NK W600117B
	PINION	NK W600117C
	PINION	NK W600117D
	PINION	NK W600117E
	PINION	NK W600117F
	PINION	NK W600117G
	PINION	NK W600117H
	CLUTCH HOUSING, input	NK W600103
	CLUTCH HOUSING, astern	NK W600203
	PLATE, sintered	NK 400107
	PLATE, steel	NK 400108
	SHAFT, input	NK W600102
	SHAFT, astern	NK W600202
	SLEEVE, bearing	NK W600121
	OUTPUT SHAFT ASS'Y	NK W600300A~H
	SHAFT, output	NK W600301
	GEAR, output	NK W600302A
	GEAR, output	NK W600302B
	GEAR, output	NK W600302C
	GEAR, output	NK W600302D

Attached sheet to letter Ref. No. TA24314M (3/3)

DMT600DL	GEAR, output	NK W600302E
	GEAR, output	NK W600302F
	GEAR, output	NK W600302G
	GEAR, output	NK W600302H
	COUPLING, input	NK W600008
	COUPLING, output	NK W600306
	CASE	NK W600001
	COVER, CASE	NK W600004
	CARRIER, bearing	NK W600006
DMT600BL	MARINE TRANSMISSION	NK 670000-1
	MARINE TRANSMISSION	NK 670000-2 (A~C TYPE)
	MARINE TRANSMISSION	NK 670000-2 (D, E TYPE)
	Hydraulic Circuit Diagram	NK 670000-3
	INPUT SHAFT ASS'Y	NK W600100
	ASTERN SHAFT ASS'Y	NK W600200
	PINION	NK 670117A
	PINION	NK 670117B
	PINION	NK 670117C
	PINION	NK 670117D
	PINION	NK W600117G
	CLUTCH HOUSING, input	NK W600103
	CLUTCH HOUSING, astern	NK W600203
	SHAFT, input	NK W600102
	SHAFT, astern	NK W600202
	PLATE, sintered	NK 400107
	PLATE, steel	NK 400108
	OUTPUT SHAFT ASS'Y	NK 670300A~E
	SHAFT, output	NK 670301
	GEAR, output	NK 670302A
	GEAR, output	NK 670302B
	GEAR, output	NK 670302C
	GEAR, output	NK 670302D
	GEAR, output	NK 670302E
	COUPLING, input	NK W600008
	SLEEVE, bearing	NK W600121
	COUPLING, output	NK 670306
	CASE	NK 670001
	COVER, CASE	NK 670004
	CARRIER, bearing	NK 670006
All	Class NK MATERIAL LIST	-

Note:

Any significant changes in design or construction of the above items may render this certificate invalid.

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