DNV·GL

Certificate No:
TAS0000060

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifting Gear

with type designation(s)
Manual type trolley, Curved beam trolley, Low headroom curved beam trolley, Low headroom hoist, Chain block

Issued to
Dae Kyung Co., Ltd. (Pusan factory)
Busan Korea, Republic of Korea

is found to comply with
Standard for Certification No. 2.22 Lifting Appliances

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2019-10-23**.

Issued at **Høvik** on **2015-10-24**

for **DNV GL**

DNV GL local station: **Pusan**

Approval Engineer: **Khurram Saeed Khaliq**

Aldo Matteucci
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.

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Product description

Manual Type Trolley (Geared & plain type)

Model name	*Safe Working Load (SWL)*	*Type*
DPT-005	0.5 tonne	Plain type
DPT-010	1.0 tonne	Plain type
DPT-015	1.5 tonne	Plain type
DPT-020	2.0 tonne	Plain type
DPT-030	3.0 tonne	Plain type
DGT-005	0.5 tonne	Geared type
DGT-010	1.0 tonne	Geared type
DGT-015	1.5 tonne	Geared type
DGT-020	2.0 tonne	Geared type
DGT-030	3.0 tonne	Geared type
DGT-050	5.0 tonne	Geared type
DGT-075	7.5 tonne	Geared type
DGT-080	8.0 tonne	Geared type
DGT-100	10.0 tonne	Geared type
DGT-150	15.0 tonne	Geared type
DGT-200	20.0 tonne	Geared type
DGT-300	30.0 tonne	Geared type
DGT-400	40.0 tonne	Geared type
DGT-500	50.0 tonne	Geared type
DGT-700	70.0 tonne	Geared type
DGT-800	80.0 tonne	Geared type

Curved Beam Trolley (Geared & plain type)

Model name	*Safe Working Load (SWL)*	*Type*
DBPT-010	1.0 tonne	Plain type
DBPT-020	2.0 tonne	Plain type
DBPT-030	3.0 tonne	Plain type
DBGT-010	1.0 tonne	Geared type
DBGT-020	2.0 tonne	Geared type
DBGT-030	3.0 tonne	Geared type
DBGT-050	5.0 tonne	Geared type
DBGT-100	10.0 tonne	Geared type

Low Headroom Hoist (Geared & plain type)

Model name	*Safe Working Load (SWL)*	*Type*
DLHP-010	1.0 tonne	Plain type
DLHP-020	2.0 tonne	Plain type
DLHG-010	1.0 tonne	Geared type
DLHG-020	2.0 tonne	Geared type
DLHG-030	3.0 tonne	Geared type
DLHG-050	5.0 tonne	Geared type
DLHG-100	10.0 tonne	Geared type
DLHG-150	15.0 tonne	Geared type
DLHG-200	20.0 tonne	Geared type

Low Headroom Curved Beam Trolley

Model name	*Safe Working Load (SWL)*	*Type*
DLCP-010	1.0 tonne	Plain type

Chain Block

Model name	*Safe Working Load (SWL)*	*Chain fall (n)*
DS-005	0.5 tonne	1
DH-010	1.0 tonne	1
DH-015	1.5 tonne	1
DH-020	2.0 tonne	1
DH-030	3.0 tonne	2
DH-050	5.0 tonne	3
DH-080	8.0 tonne	3
DH-100	10.0 tonne	3
DH-150	15.0 tonne	5
DH-200	20.0 tonne	6
DH-300	30.0 tonne	10

Design limitation for all products:
- Design temperature: -10 degrees C
- Design dynamic factor: 1.15
- Heel/trim: 5/2 degrees

Application/Limitation

- Various components transferring the load like load chains, sockets, shackles etc. are to be manufactured according to recognized standards or codes and are to be delivered with relevant certificates for material and testing.
- Materials as stated in the documentation are to be delivered with material certificates complying with Standard for Certification, Lifting Appliances No. 2.22, Ch.2 Sec.1.
- Testing to be performed according to Standard for Certification, Lifting Appliances No. 2.22, Ch.2 Sec.12.

Type Approval documentation

Tests carried out

Each lifting gear and chain block is to be tested according to DNV's Standard for Certification, Lifting Appliances No. 2.22, Ch.2 Sec.12.

Marking of product

All lifting gears shall be marked according to DNV's Standard for Certification 2.22 "Lifting Appliances" 2011, Ch.2 Sec.12.

Periodical assessment

For retention for the Type Approval, a DNV surveyor shall perform a survey every second year and before expire date of this certificate to verify that the conditions for the Type Approval are complied with.