

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Loose Gear - Block**with type designation(s)
UF-260025-00001

Issued to

Mohr-Hebetechnik GmbH
Horst, Germany

is found to comply with

DNV GL standard DNVGL-ST-0377 – Standard for shipboard lifting appliances**DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances****Application :****Product(s) approved by this type approval is/are accepted for DNV GL product certification.**Issued at **Hamburg** on **2017-05-08**This Certificate is valid until **2022-05-07**.DNV GL local station: **Hamburg**for **DNV GL**Approval Engineer: **Stefan Heuer**

Jörg Kallies
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

Cargo Block type UF-260025-00001

Application/Limitation

Working conditions:

- Design temperature: -20°C
- SWL: 25t (rope 12.5t)
- Hoist load coefficient (psi): max. 1.6
- Max. 20.000 load cycles
- Rope Ø 26mm, strength 1770N/mm²: DNV GL crane type A, B
- Rope Ø 26mm, strength 1960N/mm²: DNV GL crane type A
- Rope fleet angle: max. 2.5°

Plastic rope sheave:

Required certification level is Product Certificate (PC) issued by the manufacturer.

The following material properties shall be ensured:

- min. modulus of elasticity (tensile test acc. DIN EN ISO 527): 3100 MPa
- min. tensile strength at yield (acc. DIN EN ISO 527): 80 MPa

We recommend a light colour for the sheave. Each rope sheave is to be marked with this Type Approval Certificate number: TAS000010Z

The blank sheaves have to be purchased from a manufacturer with DNVGL shop approval or be delivered with individual 3.1 material certificate.

Product testing:

Each single block shall be product certified by DNV GL:

- Lpstat: 2 x SWL

Type Approval documentation

is based on the following drawings /documents, verified with Ref.-no.: 11-108948/asn:

<i>Drawing No.</i>	<i>Rev. No.</i>	<i>Sheets</i>	<i>Title</i>
19-8283-01	B	1	Seilscheibe kpl
19-8283-01.01	B	1	Seilscheibe ø500/570
13-8283-03	B	1	Sitenblech
13-8283-01.01	A	1	Bolzen
13-8283-02.02	B	1	Deckel
13-8603	B	1	Aufhaengung
13-8603-01	B	1	Bolzen

and on the drawings / documents verified with Ref.-No. MCADE453/STEHEU/P261.1-J-26025 (Job ID: MRGDE142-P261.1-17-1):

13-8283	D	1	Ladeblock 25t
13-11427		1	Bolzen
UF-260025-00001	D	3	Stueckliste

Marking of product

Job Id: **262.1-024509-1**
Certificate No: **TAS000010Z**

Each cargo block shall be marked by the manufacturer with at least:

- Manufacturer's name or trademark
- Type of loose gear
- Serial number
- Year of construction
- Nominal load(s) "SWL" in t or kg
- Dead load "WT" in t or kg
- Rope sheave with: TAS000010Z

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform a periodical assessment after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.