DNV·GL

Certificate No:
TAS000029Z

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Winch - Manriding

with type designation(s)
Man-riding Air Winch MR150K

Issued to
Ingersoll Rand Industrial Technologies
Kent, WA, USA

is found to comply with
DNVGL-OS-E101 – Drilling facilities, Edition January 2018

Application :

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

Issued at **Houston** on **2019-11-19**
This Certificate is valid until **2024-11-18**.
DNV GL local station: **Seattle**

Approval Engineer: **Bo Cui**

for **DNV GL**

Christian Nilsen
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

Air-powered winch rated for 150 kg (330Lb) designed to be used for man-riding.

Application/Limitation

Design Parameter	Value	(Equivalent)
Maximum SWL	150 kg	(330 Lbs)
Minimum Design Temperature	-20°C	(-4°F)
Service	Man-Riding	-
Wire Rope Diameter	10 mm	(3/8-inch)
Min. Breaking Strength of Wire Rope	69.3 kN	(15,590 Lbf)
Air Supply requirement	6.3 bar	(90-psig)

Type Approval documentation

Fabrication Procedures

Procedures related to testing, welding, NDT, etc. are to be reviewed/approved by DNV's local surveyor.

Marking of product

For traceability the following marking is to be carried out on each product:

1. Serial No.
2. Manufacturer's Name or trademark
3. Additional marking at the manufacturer's discretion

Additional Manufacturing Location

Ingersoll Rand Equipements de Production
529, Avenue Roger Salengro
59450 SIN LE NOBLE, France

Periodical assessment

For retention of the Type Approval, DNV GL's surveyor shall perform periodical in accordance with DNV GL's Class Programme DNVGL-CP-0338, Section 4.

End of Certificate