

Reference List for HADEF Offshore-Projects



HADEF Hoists and Cranes for the Offshore Industry

HADEF looks back to one century of experience in the design and manufacture of hoists, winches and cranes.

Together with our subsidiary, LM Maskin AS, Norway, we are one of the main suppliers for special offshore hoisting equipment.

Our hoists are used for example on **Åsgard B**, one of the most modern production platforms in the rough North Sea.

HADEF manual chain hoists, pneumatic chain hoists as well as complete crane equipment have been delivered in the years 1998/1999 , 2000 and 2001 to take part in the following North Sea projects:

**Field development project:
Siri Jack-up platform**

Client: Statoil Denmark
Location: Danish Continental Shelf, Denmark
Delivered in: January 1998



HADEF hoists supplied amongst others for this project are:

**HADEF Spur Gear Hoist Type 9/98
capacity: 3 ton**

**HADEF Manually geared trolley Type 22/90
capacity 1 ton**



**Pneumatic Chain Hoists with pneumatic trolley
Ultralow headroom configuration**

HADEF Type 29/94 APP
capacities: 1,5 , 5 + 12 ton



Type 29/94 APP – 12 ton

Special design Crane
3 ton capacity with span of 13,5 m

**Field development project:
Åsgard B Gas Production Semi**

Client: Statoil
Location: Norway
Delivered in: September 1999

Below you find an extract of the hoists supplied for this project:

HADEF Spur Gear Hoists Type 9/98
capacities: 1, 3 and 6 ton



foto shows a 1 ton hoist

HADEF Hand Geared Trolleys Type 22/90
capacities: 1, 3 and 6 ton

**HADEF Spur Gear Hoists combined with hand geared trolley
Type 29/98 HH – Ultralow headroom configuration**
capacities: 1 and 3 ton

**HADEF Pneumatic Chain Hoists combined with pneumatic trolley
Type 29/94 APP –Ultralow headroom configuration**
capacities: 10, 16 and 20 ton

HADEF Pneumatic Chain Hoist
Type 70/96 APS – stationary with hook suspension
capacity: 6 ton

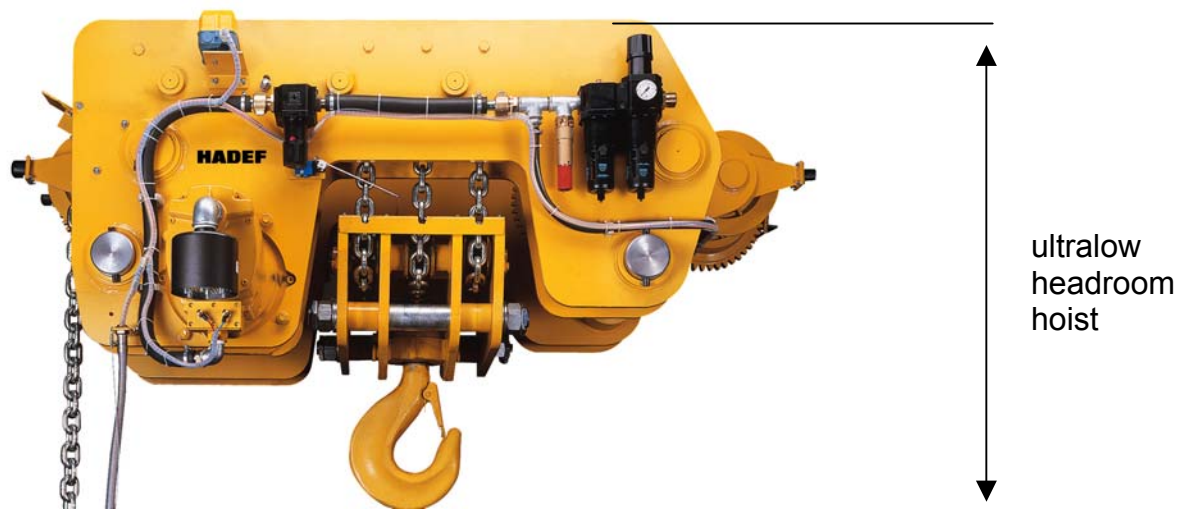
HADEF Pneumatic Chain Hoist combined with hand geared trolley
Type 29/94 APH – Big-Bag
capacity: 6 ton

Field development project:
Jotun Field Development – FPSO

Client: Esso Norge AS
Location: Norway
Delivered in: 1998

Amongst other hoisting equipment, HADEF supplied a

Pneumatic Chain Hoist with pneumatic trolley
Type 29/94 APP
capacity 25 to
Ultralow headroom configuration



This hoist has special offshore paint in yellow-orange to increase corrosion resistance and make it withstand the rough salty atmosphere on oil and gas platforms.

Ultralow headroom hoists are advantageous for use where there is lack of space available.

This hoist is situated “under deck” in the floating production vessel.

HADEF offers also Manual Chain Hoists of Ultralow headroom configuration in special explosion-proof design.

They are available in a capacity range from 1000 kg up to 30 tons.

**Field development project:
Snorre B**

Client: Norsk Hydro
Location: Norway, North Sea
Delivered in: March 2000

Below please find an extract of the hoists supplied for this project:

HADEF Hand Geared Trolley Type 22/90

capacities: 1 ton

HADEF Hand Geared Trolleys Type 22/90 – with rack and pinion drive

capacities: 3 , 6 and 25 ton

**HADEF Spur Gear Hoists combined with hand geared trolley
Type 24/98 HH**

capacities: 1 and 3 ton

**HADEF Spur Gear Hoists combined with hand geared trolley
Type 29/98 HH – Ultralow headroom configuration**

capacities: 1, 3 and 4 ton

**HADEF Pneumatic Chain Hoists combined with hand geared trolley
Type 29/94 APH – Ultralow headroom configuration**

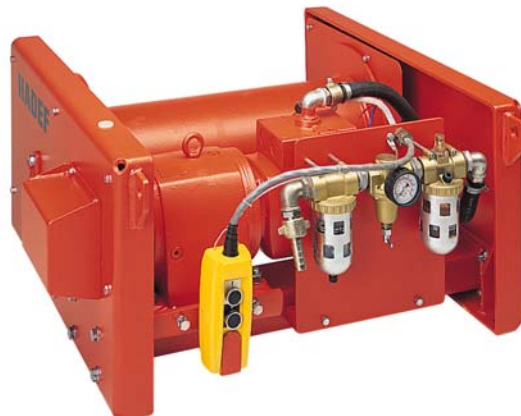
capacities: 6, 10 and 18 ton

**HADEF Pneumatic Chain Hoist combined with pneumatic trolley
Type 29/94 APP – Ultralow headroom configuration**

capacity: 1 ton

**HADEF Pneumatic Wirerope Winch
Type 42/87 P**

capacity: 5 ton



**Field development project:
Grane A + B platform**

Client: Kvaerner Oil & Gas / Norsk Hydro
Location: Norway
Delivered in: October 2002



Illustr.: Norsk Hydro

The Grane platform will consist of integrated accommodation, process and drilling modules, assembled on a steel jacket.

According to plan, the platform will be installed on the field, located 185 km west of Stavanger in April and June 2003.

The following hoists were supplied for this project:

**HADEF Spur Gear Hoist combined with hand geared trolley
Type 24/98 HH
capacity: 500 kg**

**HADEF Hand Geared Trolley Type 22/90
capacity: 1 ton**

**HADEF Spur Gear Hoist combined with hand geared trolley
Type 29/98 HH – Ultralow headroom configuration
capacity: 1 ton**



The following projects will be realized in year 2003

**Field development project:
Kristin**

Client: Statoil Norway
Location: Norway (North Sea)
Delivery in: April 2003

HADEF special design winches will be situated in each column to do service work on the platform anchorage chains



HADEF special design underslung cranes with ultralow headroom chain hoists and rack & pinion drive will be situated here

KRISTIN platform
Foto: Kvaerner

The following HADEF equipment will be supplied for the KRISTIN project:

HADEF Hand Geared Trolley Type 22/90
capacity: 1 ton

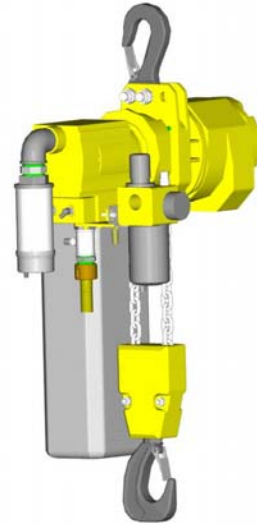
HADEF Hand Geared Trolleys Type 22/90 with rack and pinion drive
capacity: 3 and 6 ton

HADEF Spur Gear Hoists Type 9/98
capacities: 1, 3, 6 and 10 ton

**HADEF Spur Gear Hoists combined with hand geared trolley
Type 29/98 HH – Ultralow headroom configuration**
capacity: 1 and 3,2 ton

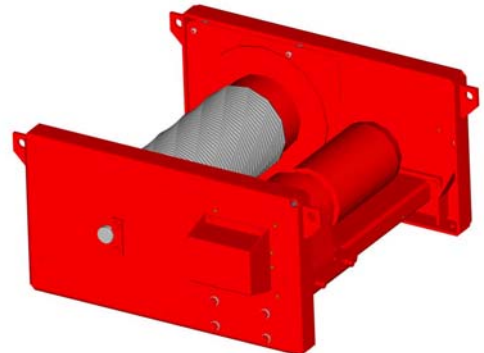
**HADEF Spur Gear Hoist combined with hand geared trolley
Type 29/98 HH – Ultralow headroom configuration**
capacity: 6,3 ton – with rack and pinion drive

HADEF Pneumatic Chain Hoist
Type 70/96 APS – stationary with hook suspension
capacity: 3 ton



HADEF Pneumatic Chain Hoists combined with hand geared trolley
Type 29/94 APH – Ultralow headroom configuration
capacities: 3,2 , 10 and 18 ton

HADEF Electric Wirerope Winches
Type 42/87 E
pulling capacities: 2000 and 3200 daN



HADEF Single Girder Electric Underslung Crane
Type EDEE – with rack and pinion drive
capacity: 3 ton

**Field development project:
OSEBERG C GAS INJECTION**

Client: Kvaerner Oil & Gas end user Norsk Hydro
Location: Norway (North Sea)
Delivery in: May 2003

The following HADEF equipment will be supplied for this project:

**HADEF Spur Gear Hoists combined with hand geared trolley
Type 24/98 HH**
capacities: 5 and 10 ton

**HADEF Spur Gear Hoist combined with push travel trolley
Type 24/98 HR**
capacities: 1 ton

**HADEF Spur Gear Hoist combined with hand geared trolley
Type 29/98 HH – Ultralow headroom configuration**
capacity: 6,3 ton

**HADEF Jib Crane incorporating Spur Gear Hoist Type 24/98 HR
Type 360/01 H**
capacity: 1 ton

**HADEF Wall-mounted Jib Crane incorporating Spur Gear Hoist Type 24/98 HR
Type 320/01 H**
capacity: 1 ton