



### ***Hydraulic Rotary Drilling Rig Type DSB 4/40***

A mobile rotary drilling rig for prospecting, coring and water-well drilling with the worldwide patented round mast. The high mast capacity allows the application of suitable drill collar weights. Resulting in efficient bit load and straightening of the drill string. Optimum facilities for safe vertical drilling at the highest speed. Easy maintenance and simple handling by means of convenient arranged drilling rig components. Many details assure a safe and fast working sequence. This equipment options cover all known drilling techniques.

#### ***Drilling Applications:***

- Well drilling for water supply, agricultural irrigation or site drainage works
- coring
- Geological and hydrological investigations
- Exploration drilling
- Groundwater measuring
- soil sampling for soil mechanical investigations

#### ***Drilling methods:***

- Conventional drilling by means of auger drilling, drill bucket drilling, hollow stem auger drilling.
- straight flush rotary drilling
- Core drilling with single -,double- and wire line core barrels
- RC-drilling
- RC-Jet drilling
- Air lift drilling
- DTH- hammer drilling

#### ***Drilling Rig Execution***

- 3 -axle and 4 axle Truck with deck diesel
- 3-axle or 4-axle trailer with deck diesel

# TECHNICAL DATA : DSB 4

## Carrier / Engine

### 3-axle 4WD-Truck

gross weight approx.: 22.000 - 26.000 kg

drive of Truck P.T.O

optional:

Deck diesel engine 136 - 200 kw

### 4-axle 4WD-Truck

gross weight approx.: 41.000 kg

drive of Truck P.T.O

optional:

Deck diesel engine 136 - 200 kw

### Trailer

3- or 4 axle

## Mast

### Type A

mast length: 10.400 mm

travel : 7.200 mm

Hock load : 45.000 daN

(double reeved without anchoring)

hoisting speed,travel block, double reeved

1st. Stage at 40.000daN pull up max. 0,30 m/s

2nd. Stage at 20.000daN pull up max. 0,60 m/s

### Type B

mast length: 13.200 mm

travel : 10.000 mm

Hock load : 45.000 daN

(double reeved without anchoring)

hoisting speed,travel block, double reeved

1st. Stage at 40.000daN pull up max. 0,30 m/s

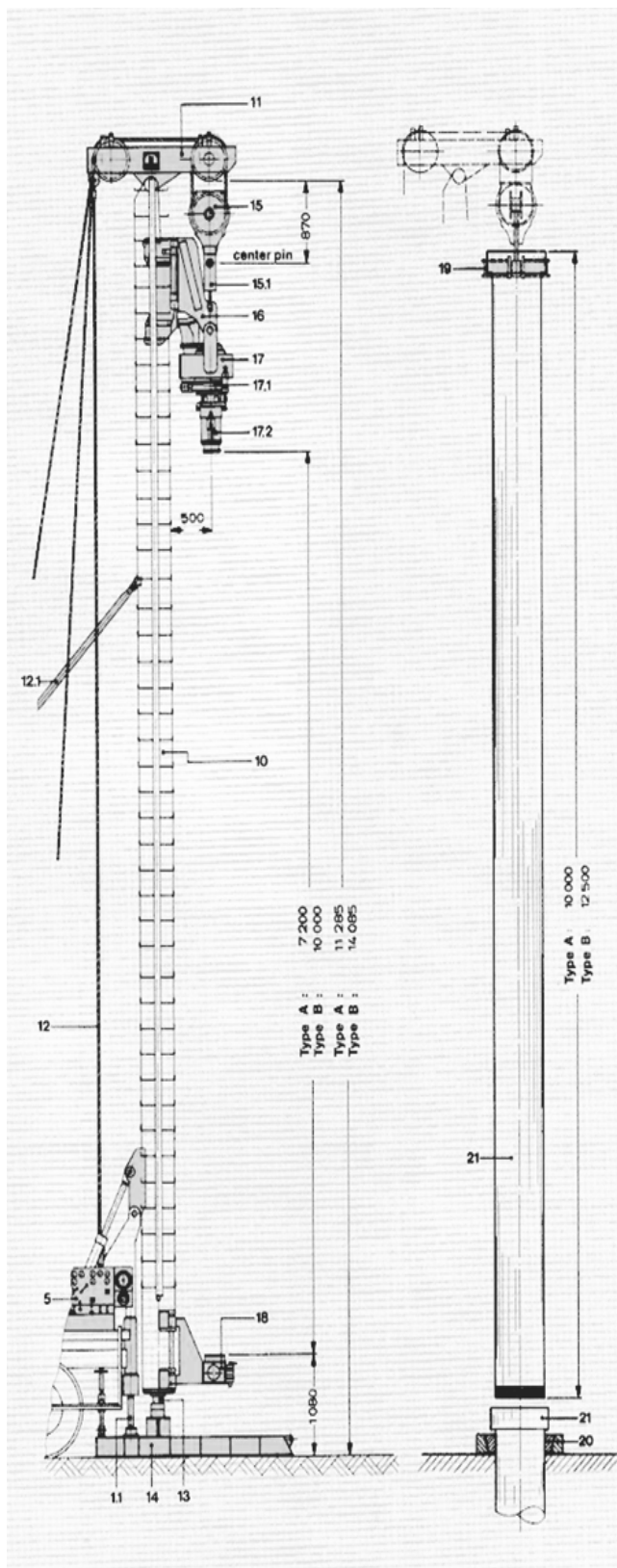
2nd. Stage at 20.000daN pull up max. 0,60 m/s

## hydr. power head

max.torque 1.600 daN

speed 0-320 r.p.m

passage 172 mm



## TECHNICAL DATA : DSB 4

### hydr. Drill pipe break out System

#### hydr. Screwing device

on request 42.000 daN

#### mech screwing device or hydr. Chuck

max. clamping dia: 245 mm

max free passage: 250 - 1.000 mm

clamping force : 64.000 daN

axial load : 40.000 daN

#### Draw works and winches

Draw work BW 10.000 K

controlled lowering automatic drill feed

max.pull 10.800 daN

5.400 daN

cable speed

1,2m/sec.- 2,4m/sec.

work over winch BW 5000 K

controlled lowering automatic drill feed

max.pull 5.000 daN

cable speed

0-1,86 m / sec.

#### Mud Pumps

Triplex piston pump

drive

hydr. Adjustable

max. capacity :

30 - 160 l/min

Duplex piston pump 6" x 6"/ 60

Duplex piston pump 7" x 8"/ 125

others on request

#### Centifugal Pumps

max capacity:

1200l/m

max pressure

9 bar

others on request



DSB 4 with nordmeyer pipe handling System



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We reserve the right to make changes without notice.

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