



Drenen
Spülen
chlagen
Bohren

DSB
2/7
2/10

**The mast,
backbone
for all
drilling works**



rig in drilling position

Applications :

- Soil Sampling for soil mechanical investigations
- Geological and hydrological investigations, e.g. waste deposits or investigations of contaminated ground
- Exploratory drilling, (test drills)
- Groundwater measuring point
- Well drilling for water supply, agricultural irrigation or site drainage

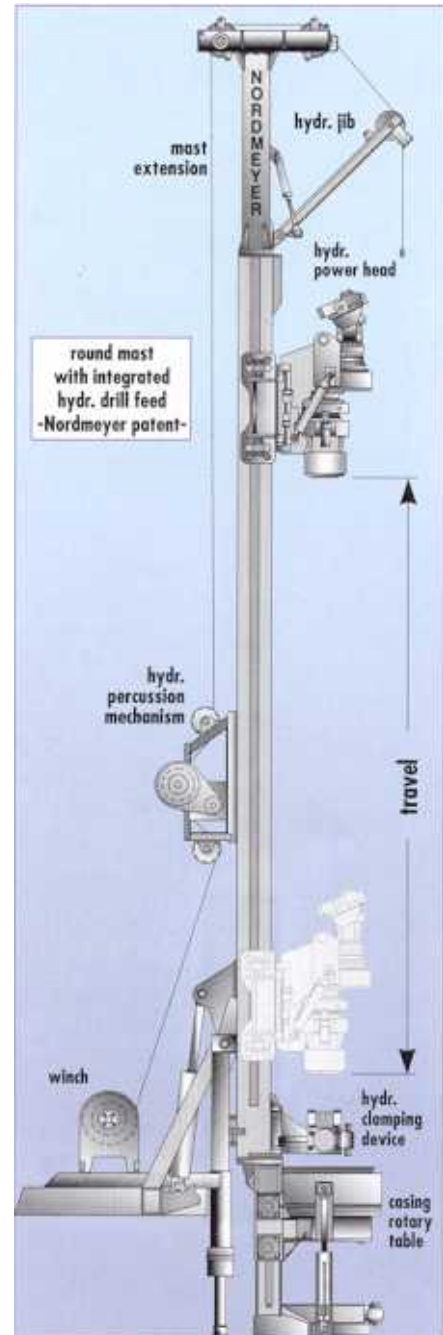
The type **DSB 2** is the fully-hydraulically operated rotary drilling rig which has been designed with the worldwide patented round mast with integrated hydr. drill feed since 1973 (NORDMEYER patent). This simple and statically solid construction has been approved successfully also regarding the bigger and more powerful types of the DSB-rig series.

The multi-purpose drilling rig is assembled in modules and therefore can be adapted to each individual drilling task.

A multi-purpose drilling rig :

- about 10 different drilling methods with one rig -on request
- fast change of drilling methods during one drilling task
- quick and easy handling
- CE-standard, that means - conformity with international standards
- bio-degradable hydraulic oil
- silent operation
- highly efficient hydraulic system

rig in transport position



Technical data

Carriers / Drive

2-axle-trailer

gross weight approx.: 16 000 kg
diesel engine : 78 -109 kW (106 -148 HP)

2-axle-truck all-wheel-drive (4 x 4)

gross weight approx.: 12 000 - 18 000 kg
drive of truck P.T.O.
optional:
deck diesel-engine : 78 -109 kW (106 -148 HP)

3-axle-truck all-wheel-drive (6 x 6)

gross weight approx.: 22 000 - 25 500 kg
drive of truck P.T.O.
optional:
deck diesel-engine : 78 -109 kW (106 -148 HP)

crawler B2

width : 2 300 - 2 400 mm
gross weight : 18 000 kg
diesel engine : 78 -109 kW (106 -148 HP)

Other carriers and drives are available acc. to the requested rig components.

Mast

with hydr. drill feed

DSB 2/7 - 3 800 / - 4 800

mast length : 6 000 / 7 000 mm
travel : 3 800 / 4 800 mm
max. hook load : 100 kN (10 000 kg)
max. hydr. pull up : 7 000 daN (kg)
max. hydr. pull down : 3 500 daN (kg)
drill speed up : 0 - 0.15 m/s
down : 0 - 0.12 m/s
rapid speed up : 0.60 m/s
down : 0.50 m/s

DSB 2/10 - 4 800 / - 5 800 / - 6 800

mast length : 7 200 / 8 200 / 9 200 mm
travel : 4 800 / 5 800 / 6 800 mm
max. hook load : 120 kN (12 000 kg)
max. hydr. pull up : 10 000 daN (kg)
max. hydr. pull down : 5 000 / 4 000 / 3 500 daN (kg)
drill speed up : 0 - 0.12 m/s
down : 0-0.17 / 0-0.20 / 0-0.25 m/s
rapid speed up : 0.50 m/s
down : 0.70 / 0.80 / 1.00 m/s

Mast extension : 110 / 645 / 1 110 / 1 645 mm

Hydr. Jip

swivelling range : 800 mm
max. load : 1 000 daN (kg)

Mast foot with hydr. clamp

max. clamping dia. : 324 or 419 mm

Hydr. power head

Rotation speed right/left, continuously adjustable, hydr. tilting and hydr. swivelling

KSP - 5.7 S

torque : 400 / 200 daNm (kpm)
speed : 0 - 175 / 0 - 350 r.p.m.
passage : 125 mm

KSP - 5.11

torque : 500 daNm (kpm)
speed : 0 - 125 r.p.m.
passage : 125 mm

KSP - 5.13

torque : 500 / 180 daNm (kpm)
speed : 0 - 130 / 0 - 350 r.p.m.
(max. 0 - 600 r.p.m.)
passage : 85 mm

KSP - 7.6

torque : 700 / 300 / (150) daNm (kpm)
speed : 0 - 90 / 0 - 200 / (0-400) r.p.m.
passage : 125 mm
) : optional as 2nd stage

KSP - 7.7

torque : 700 daNm (kpm)
speed : 0 - 150 r.p.m.
passage : max. 0 - 125 mm

KSP - 7.10

torque : 1 050 / 650 / 230 daNm (kpm)
speed : 0 - 85 / 0 - 120 / 0 - 320 r.p.m.
passage : max. 172 mm

KSP - 7.10.1

torque : 1 050 / 650 daNm (kpm)
speed : 0 - 75 / 0 - 120 r.p.m.
passage : max. 172 mm

Hydr. Drill Pipe Break-Out System

max. break-out :
KSP-5 series : 1 000 daNm (kpm)
KSP-7.6 u. 7.7 : 1 700 daNm (kpm)
KSP-7.10 : 3 900 daNm (kpm)

Screwing Device for Drill Pipes and Drill Collars

optional mech. screwing device or hydr. chuck
clamping-diameter : 143 - 198 mm

Hydr. Clamping Device

max. pipe O.D. : 127 / 146 / 245 mm
min. free passage, dia. : 150 / 164 / 250 mm
- closed -
max. free passage, dia. : 680 mm
- opened -

Hydr. Casing Rotary Table

with hydr. chuck and hydr. clamping device

Typ	HV 324-D		HV 419-D	
	max. casing dia.	324	419	mm
torque	2 200	4 500	daNm (kpm)	
speed	0 - 9	0 - 9	r.p.m.	
max. pull-up	20 000	24 000	daN (kg)	
max. pull-down	11 200	14 000	daN (kg)	
travel	400	400	mm	

Winches

Hydr. winch BW 850 K (K = controlled spooling)

max. pull : 850 daN (kg)
line speed : 1.2 m/s
spool capacity : 52 m / dia. 8 mm

Hydr. winch BW 1000 K

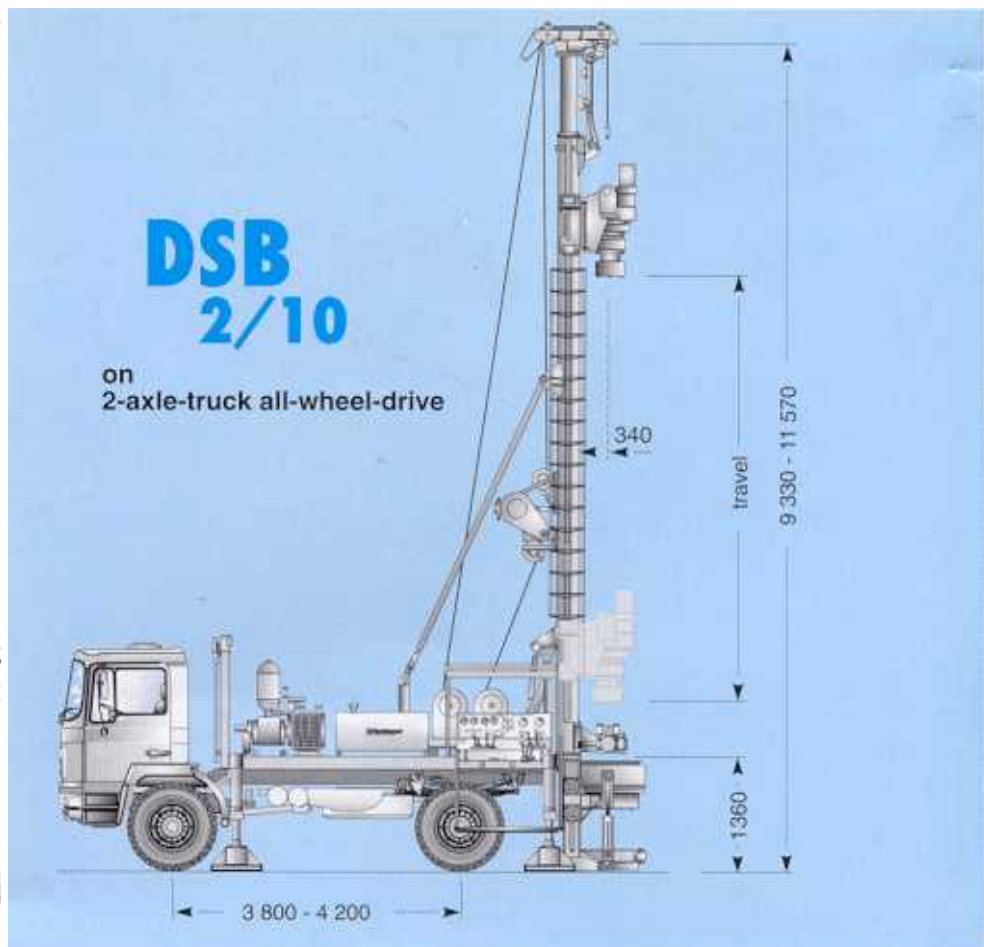
max. pull : 1 000 daN (kg)
line speed : 1.0 m/s
spool capacity : 50 m / dia. 8 mm
max. 250 m

Hydr. winch BW 2500 K

max. pull : 2 500 daN (kg)
line speed : 2.35 m/s
spool capacity : 63 m / dia. 12 mm

Hydr. winch BW 3000 K

max. pull : 3 000 daN (kg)
line speed : 1.6 m/s
spool capacity : 70 m / dia. 14 mm



Hydr. winch BW 3000 FK
(FK = Free-fall and controlled spooling)
max. pull : 3 000 daN (kg)
line speed : 0.85 m/s
spool capacity : 98 m / dia. 14 mm

Hydr. winch BW 5000 K
max. pull : 5 380 daN (kg)
line speed : 1.05 m/s
spool capacity : 90 m / dia. 14 mm

Hydr. winch BW 10 000 VK
(VK = adjustable pull, controlled spooling)

	1st stage	2nd stage
max. pull	: 10 350	3 830 daN (kg)
line speed	: 0.56	1.62 m/s
spool capacity	58 m / dia. 14 mm	

Hydr. Percussion Mechanism

in connection with hydr. winch
up to 3 000 daN pull
max. load : 500 daN (kg)
stroke length, adjustable : 320 / 360 / 400 mm
number of strokes : 30 - 60 / min.

in connection with hydr. winch
up to 5 500 daN pull
max. load : 500 daN (kg)
stroke length, adjustable : 490 / 540 / 600 mm
number of strokes : 30 - 60 / min.

Flush Pumps

Triplex piston pump
capacity : 30 - 160 l/min
pressure : 40 bar

Duplex piston pump 4 1/2" x 5"
capacity : 250 - 450 (110 - 200) l/min
pressure : 20 (max. 40) bar

Duplex piston pump 5" x 6"
capacity : 50 - 750 l/min
pressure : 20 bar

Centrifugal pump NU 25 - 6,5
capacity : 700 - 900 l/min
pressure : 7.5 - 4.2 bar

Centrifugal pump NU 25 - 10
capacity : 1 200 - 3 200 l/min
pressure : 7.2 - 4.3 bar

Vacuum pump T.F. - ST 150
capacity water : max. 260 m³/h
capacity air : max. 172 m³/h
max. particle size : dia. 100 mm
lift of pump : 17.5 m

Compressors
(Screw-type)

capacity : 3.6 - 5.4 / 5.5 - 7.5 / 7.6 - 9.3 m³/min
pressure : 4 - 12 / 4 - 12 / 4 - 10 bar

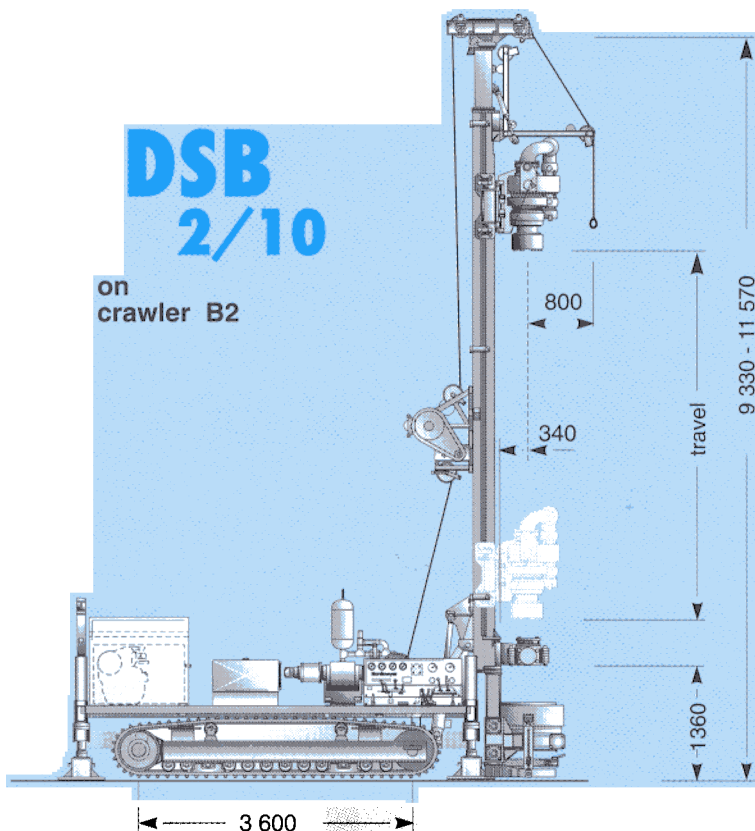
Foam- and oil-injection system

Triplex piston pump
hydr. drive - infinitely adjustable
capacity : 3 - 46 l/min
pressure : max. 50 bar

Dosing pump
capacity mechan. adjustable : 0.25 - 2.5 l/h
pressure : 50 bar

Notice

The a.m. components represent standard versions which can be mounted optionally on customer's request. According to the desired carrier and the available drive the technical data may differ slightly. Further options are available on request.



All technical data are subject to alteration.

Conversion table

force :
1 daN approx. 1 kg (kp)
1 kN approx. 100 kg (kp)

power : kW x 1.36 = HP

speed : 1 r.p.m. = 1 min⁻¹

torque :
1 daNm approx. 1 kpm
1 kNm approx. 100 kpm

Further carriers and rig components are shown on the back.





Drehen
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A variety
of
carriers

DSB
2/7
2/10

*Your
drilling sites
are relevant for
the choice of
the carrier vehicle.*

DSB 2/7
in driving and transport position on Mercedes truck -1824 AK-
including hydr. casing rotary table folded down for transport.



DSB 2/10
on Mercedes 3-axle-truck all-wheel-drive -2631 AK/6 x 6-
as water well drilling rig.



DSB 2/10
on crawler B2
incl. casing rotary table.
Rig in transport and drilling position.

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