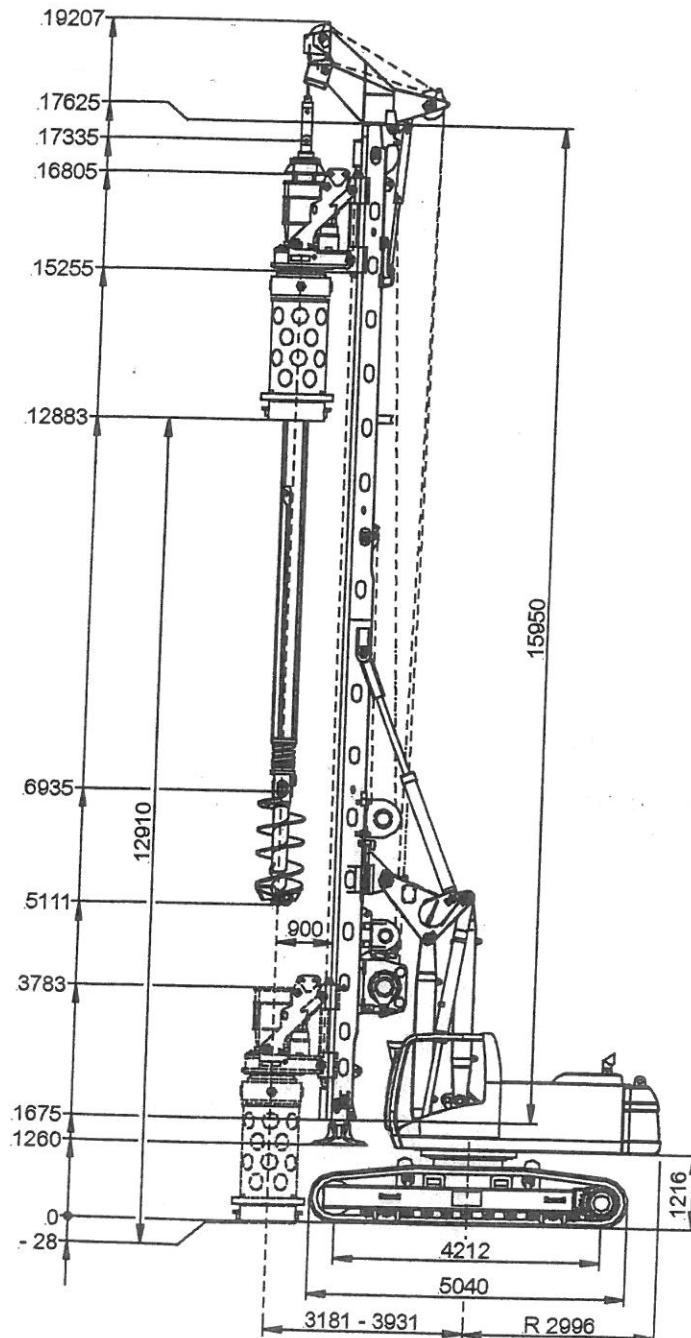


3 TECHNICAL SPECIFICATIONS

3.1 DIMENSIONS

3.1.1 Kelly Equipment BK 16/368/3/24

Dimensions in [mm]



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3.3 ROTARY DRIVE SPECIFICATIONS

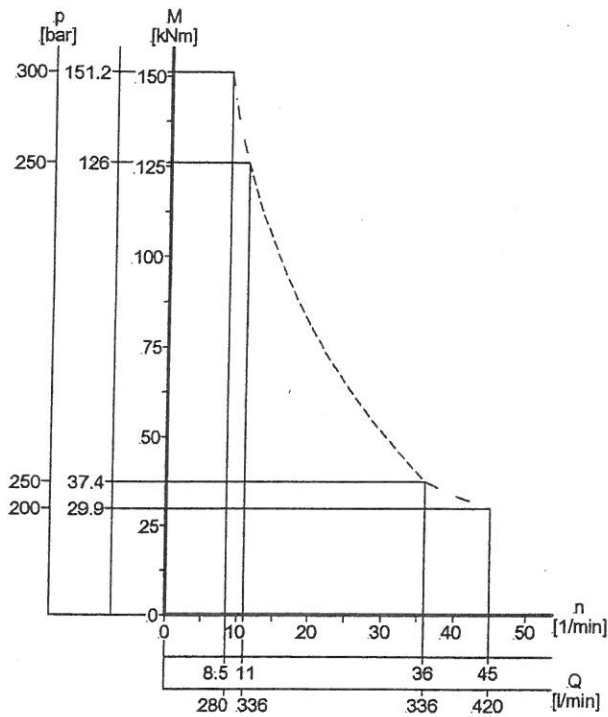
3.3.1 Rotary Drive, Constant

$$P_{th} = 140 \text{ kW}$$

$$Q_{th} = 2 \times 210 \text{ l/min}$$

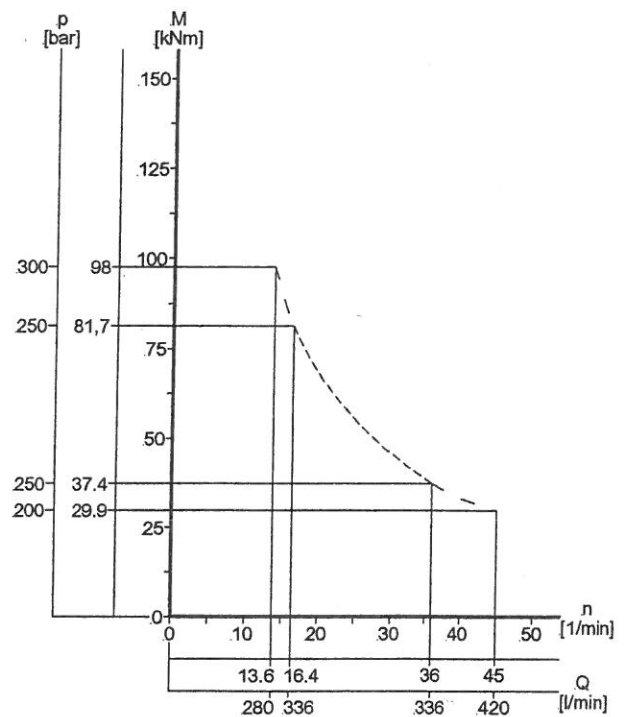
$$i = 98.92$$

High torque



BG582523.wmf

Low torque



BG582524.wmf

----- Motor regulates

- - - - - Pump regulates

K0000506.wmf

Efficiency not considered

Main Winch

Type	4055 WH 17/0
Serial number	35835
Pulling force (1 st layer)	140 kN
Rope diameter	22 mm
Rope length	60 m
Rope speed	87 m/min
("lifting" with 10 kN load)	

Auxiliary Winch

Type	5022 WH 03/0
Serial number	35548
Pulling force (1 st layer)	55 kN
Rope diameter	15 mm
Rope length	50 m
Rope speed	107 m/min
("lifting" with 10 kN load)	

Crowd Cylinder

Stroke of crowd sledge	0000 mm
Max. pushing force	000 kN
Max. pulling force	000 kN
Reduced pulling force (optional)	000 kN
Crowd speed:	
"Fast crowd" up	00 m/min
"Fast crowd" down	00 m/min
"Slow crowd" up	00 m/min
"Slow crowd" down	00 m/min

Crowd Winch

Type	ZHP 4.22 / 10256
Serial number	120
Max. stroke of crowd sledge	13950 mm
Max. pushing force	200 kN
Max. pulling force	200 kN
Rope diameter	20 mm
Length of upper / lower rope	51 m / 51 m
Crowd speed:	
"Fast crowd" up	23.5 m/min
"Fast crowd" down	24.5 m/min
"Slow crowd" up	6.0 m/min
"Slow crowd" down	6.4 m/min

3.2 EQUIPMENT SPECIFICATIONS

Base Machine

Upper carriage

Type	CAT 325 C
Serial number	OEM00206

Engine

Type	CAT 3126 B
Serial number	BMA 01809
Output	187 kW
Speed	1800 rpm

Undercarriage

Type	UW 60
Serial number	129
Width over crawlers	3000 - 4300 mm
Length of crawlers	5040 mm
Width of track pads	700 mm

Mast Inclination

During operation without work equipment

forward	5°
backward	15°
to left	5°
to right	5°

During operation with work equipment

See load capacity chart

Operating Range

See load capacity chart

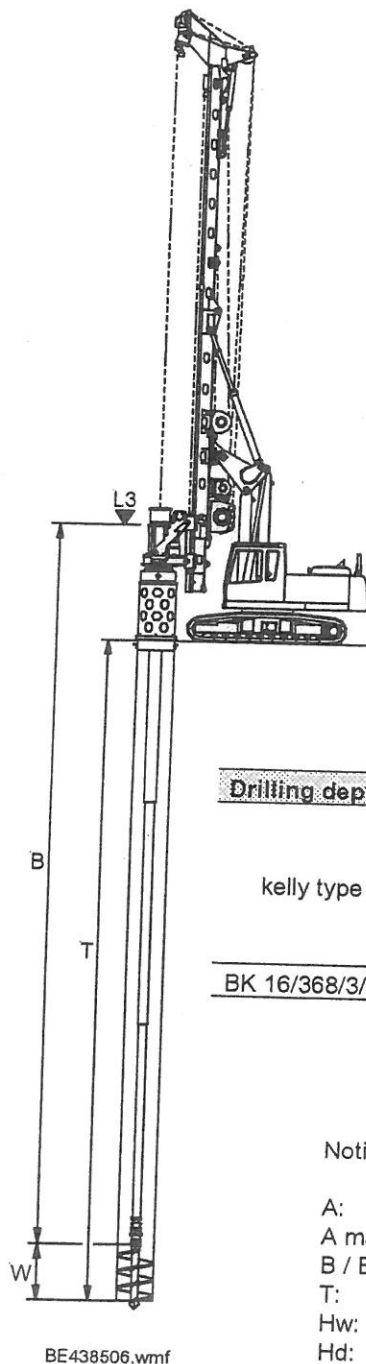
Working Weight

With:

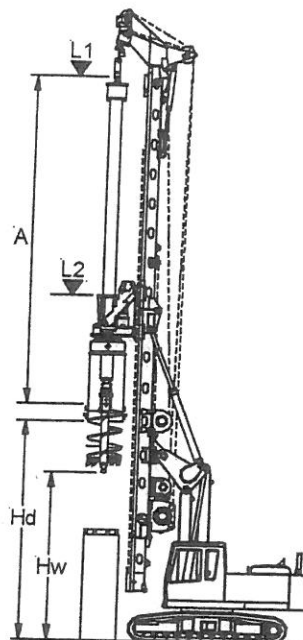
Kelly BK16/368/3/24	56.5 tonnes
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3.4 DRILLING SPECIFICATIONS

3.4.1 Kelly Equipment



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Dimensions [mm]	
L1	17335
L2	16693
L3	3783
A max.	13550
Hd	12883

Bore diameter [mm]	
uncased	1500
cased	1200

Casing length	
without CO	Hw - 0.6 m
with CO	Hw - 1.5 m

Drilling depth / Kelly specifications

kelly type	A [m]	B [m]	B1 [m]	H _w [m]	locked kelly		unlocked kelly		Weight [to]
					without CO T [m]	with CO T [m]	without CO T [m]	with CO T [m]	
BK 16/368/3/24	10.40	26.65	26.39	5.11	24.30	22.30	24.50	22.50	3.80

Notice: Drilling depth specifications are based on min. operating radius of mast.

A: Length of retracted kelly
A max. Max lifted length of kelly
B / B1: Length of extended kelly unlocked / locked
T: Max. possible drilling depth
Hw: Maximum height to drilling tool
Hd: Maximum height to casing drive adapter
L1: Highest possible position of kelly lifting eye
L2: Highest possible position of kelly driver upper edge
L3: Lowest possible position of kelly driver upper edge
W: Length of drilling tool: 1.7 m
CO: BAUER Casing Oscillator

2.5.2 Load Capacity Chart with Kelly Equipment

2.5.2.1 Kelly BK 16/368/3/24

Valid only for

Mast extension 0.0 m

0.00 to

Kelly BK 16/368/3/24

3.80 to

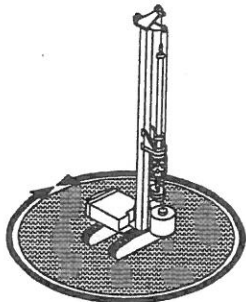
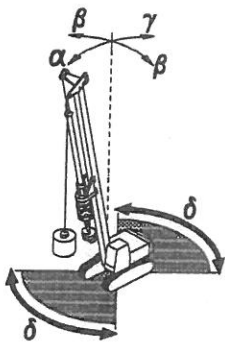
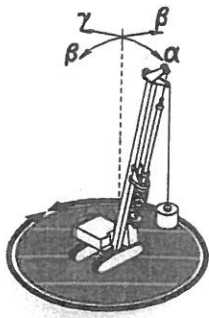
Casing drive adapter $\varnothing$ 1200 mm

1.20 to

Drilling tool $\varnothing$ 1180 mm

1.00 to

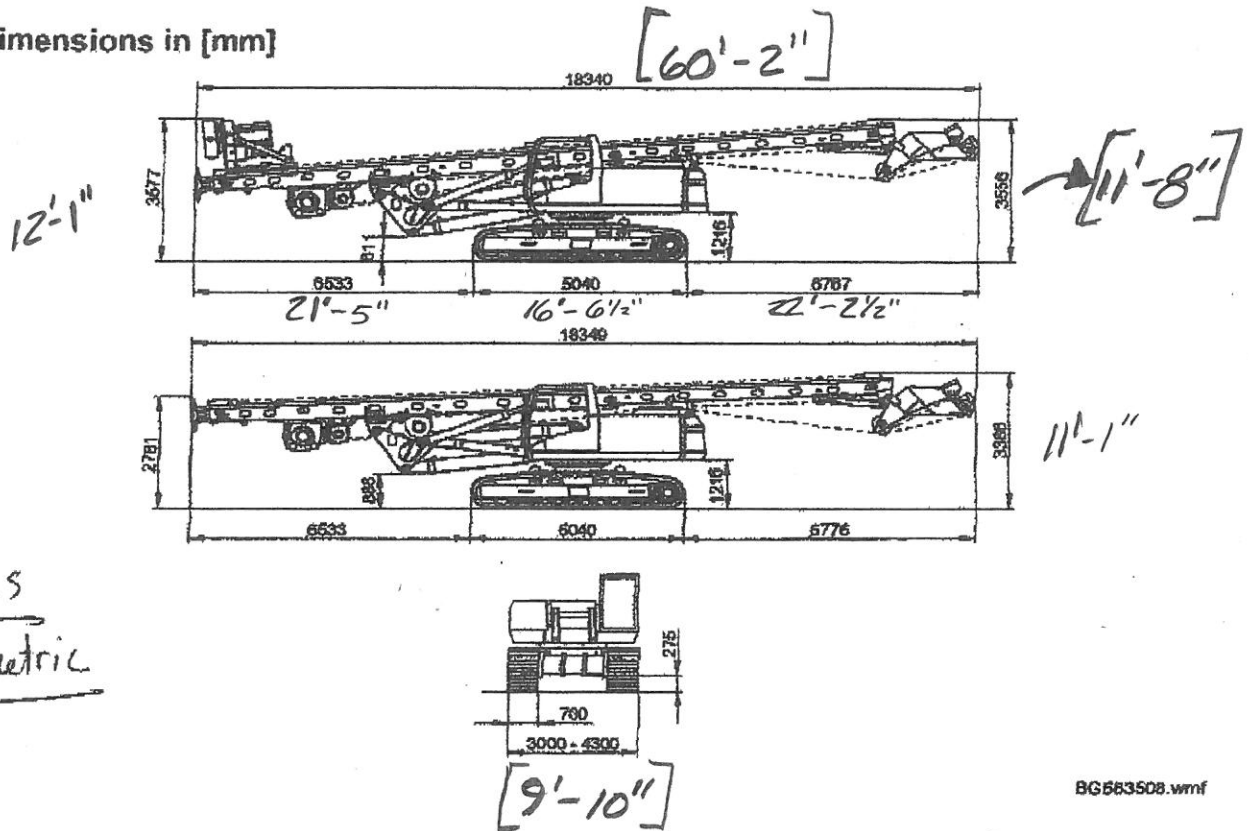
Conditions for operation

B0000689.wmf B0000691.wmf B0000690.wmf		Max permissible load [tonnes]			
		Min drill distance*: 3.18 m		Max drill distance*: 3.93 m	
	Auxiliary rope		5.5		5.5
	Main rope		14.0		14.0
	Crowd		20.0		20.0
	Auxiliary rope	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 0^\circ$ $\delta = 360^\circ$	5.5	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 0^\circ$ $\delta = 120^\circ$	5.5
	Main rope	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$ $\delta = 360^\circ$	14.0	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$ $\delta = 360^\circ$	14.0
	Crowd	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$ $\delta = 360^\circ$	20.0	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$ $\delta = 360^\circ$	20.0
	Auxiliary rope	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 0^\circ$	5.5	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 0^\circ$	5.5
	Main rope	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$	14.0	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$	14.0
	Crowd	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$	20.0	$\alpha = 5^\circ$ $\beta = 3^\circ$ $\gamma = 15^\circ$	19.8
Max travel gradeability			8°		5°

* Drill distance = centre distance from machine to drilling tool

8.5 TRANSPORT DATA

Dimensions in [mm]



All specs
are in metric

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Weights

Unit	Weight in [tonnes]	
Machine		
Machine with counterweight and with rotary drive	50.5	111,100 111,300
Machine with counterweight and without rotary drive	46.5	102,300 102,500
Machine without counterweight and without rotary drive	39.0	85,800 86,000
Counterweight	7.5	16,500 16,530
Equipment		
Rotary drive	4.0	8,800 8820
Casing drive adapter	1.2	2,650 2650
Kelly bar BK 16/368/3/24	3.8	8,350 8375
Drilling tool	1.0	2,200 2200