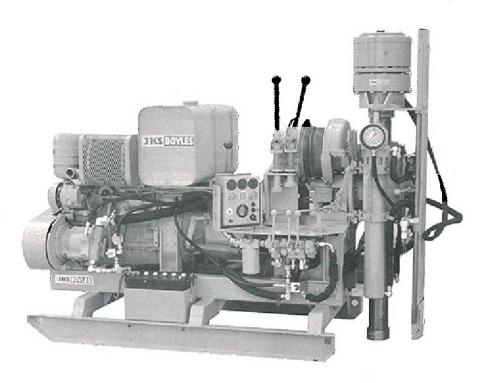
BBS 18 Surface Drill



The BBS 18 is a medium capacity drlll for holes of 550m (1800 ft) of A† wireline. The above drill is shown with an air cooled Deutz F3L912 diesel engine, H size swivelhead with swivel head guard, hydraulic chuck, hydraulic side-mounted wireline hoist, single hydraulic pump, and swivel ring for mast mounting.

Features

- The industry's widest range of spindle torques and speeds through a unique selection of bevel gears and sprocket ratio options.
- · Low profile for ease of movement and drill stability.
- Choice of options to suit customer requirements.
- Drill may be readily broken down into modules for transportation.
- All components are easily accessible for service.
- Controls are grouped for operator convenience and safety.

Nominal Depth Rating

Single Line Rating	2550	kg (5600 lbs)
Rod Size	(m)	(ft)
A †	550	1800
B †	420	1400
N †	330	1100
H †	210	700

Drilling Speeds / Torques - High Gear

Sprocket Ratio	rpm	Nm	ft lbf	
1.37:1 (Std)	10 1 4	364	269	
1.74:1	798	4 63	341	

† Refers to "O", "Q", "T", or other similar wireline systems.



BBS 18 Surface Drill

SPECIFICATIONS

Depth Rating - Single Line

Rod Size	m	ft		
A †	550	1800		
B†	420	1400		
N †	330	1100		
H†	210	700		

† Refers to "O", "Q", "T" or other similar wireline rod systems.

Diesel Power Unit

Model Deutz F3L912 (STD) Horsepower 39 kW (52 bhp)

@ 2500 rpm

Max. torque 160 Nm (118 lbf)

@ 1600 rpm

Fuel consumption 234 q/kWh @ 2500 rpm 0.385 lb/hph

Other engines available on request.

Diesel engine data based on manufacturers specifications.

Power Train

Clutch 254 mm (10 in) Automotive Type

Heavy Duty

Transmission 4 Speed Industrial Type Ratios 1st: 6.32 2nd: 3.09 3rd: 1.69 4th: 1.0 Drive line

Heavy duty Universal joints

Front end drive Cast steel

Chain Quadruplex 13 mm (1/2 in) pitch Optional Ratios Available as kits. Sprockets

Hydraulic System

Single pump (pressure 80 L/min (21 gpm US) compensated type)

Optional second pump for 76 L/min (20 gpm US) hydraulic water pump drive

Tank volume - single pump 64 L (17 gal US)

155 L (41 gal US) double pump Swivel head circuit 6890 kPa (1000 psi) maximum pressure

Hydraulic chuck circuit 6890 kPa (1000 psi) Wireline hoist circuit 10340 kPa (1500 psi) maximum pressure

Fuel Tank

64 L (17 gal US) With single hydraulic pump

With double 91 L (24 gal US) located on

hydraulic pump operator's side

Main Hoist

Single line hoist rating 2550 kg (5600 lbs) Hoist type Differential with brake bands

Drum capacity 20 m of 13 mm dia. cable

(65 ft of 1/2 in) Drum diameter 205 mm (8 in) Drum length 115 mm (4 5/8 in) 20 m of 13 mm dia. Cable supplied (65 ft of 1/2 in)

Brake/clutch levers Double fulcrum action, over centre

lock, swiveling type Clutch brake drum 346 mm dia. x 64 mm (13 5/8 in x 2 1/2 in) Hoist brake drum

346 mm dia. x 65 mm (13 5/8 in x 2 1/2 in)

Wireline Hoist

Rated capacity

 with LEVELWIND 827 m (2755 ft) of 5 mm

(3/16 in) cable

 without LEVELWIND 806 m (2685 ft) of 5 mm

(3/16 in) cable

Maximum line speed

- bare 118 m/min (385 ft/min) 219 m/min (717 ft/min) - fuli

Maximum line pull

- bare 666 daN (1467 lbf)

- full 358 daN (788 lbf)

Hydraulic Swivel Head (12 HH)

Drive tube I.D. 92 mm (3 5/8 in) Swivel head rotation 360 degrees Bevel gear ratios

 standard 6890 kPa (1000 psi) Hydraulic pressures Maximum thrust .9978 daN (21600 lbf) Maximum lift 11383 daN (25100 lbf) Piston rod O.D. 38 mm (1 1/2 in) Cylinder I.D. 102 mm (4 in)

610 mm (24 in) Stroke - standard ootional 760 mm (30 in)

Hydraulic Chuck (12 HH)

Chuck holding capacity 10900 kg (24000 lbs) Number of jaws

Jaw type Replaceable carbide insert Chuck action Spring closed, hydrautic release

In the interest of product improvement JKS Boyles reserves the right to change design, specifications and price without notice.

BBS 18 Surface Drill

SPECIFICATIONS

Standard Equipment

- 12 HH Hydraulic swivel head with 610 mm (24 in) stroke
- · Swivel head guard
- Fast retract valve on 12 HH swivel head
- · Bit weight indicator
- Heavy duty 4 speed transmission
- · Heavy duty automotive clutch
- Heavy duty battery

Optional Accessories

- Manual chuck with 3 jaws
- Hydraulic frame retraction 406 mm (16 in) stroke with skid-type base (for use with free standing mast)
- · Second hydraulic pump for hydraulic water pump drive
- Hydraulic Chuck
- · Sheaves and fair leads for self propelling
- Top mounted cathead
- Bit tachometer
- Heavy duty over centre clutch
- Side mounted wireline hoist, hydraulically powered
- LEVELWIND for even wireline spooling
- · Swivel ring mast with base
 - 6.1 m (20 ft) pull
- 8165 kg (18000 lb) working load 8165 kg (18000 lb) working load
- 9.1 m (30 ft) pull
 Hydraulic hose protection

DRILL PERFORMANCE

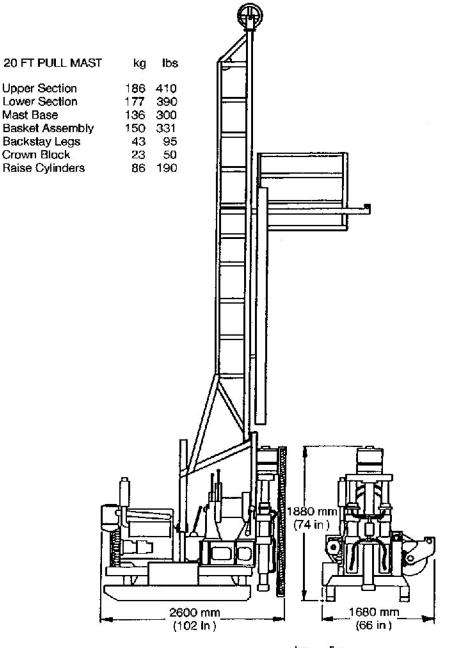
		Swive	lhead					
Front End	Bevel Gear Ratios 1:8:1 (standard)				Holst			
Sprocket Ratios								
	GEAR	SPINDLE rpm	SPINDLE (ft lbf)	TORQUE (Nm)	HOIST (lbf)	PULL (daN)	HOIST (fpm)	SPEED (m/min)
1.37:1 ratio	4	1014	269	364	5697	2534	325	99
(standard)	3	600	454	616	9627	4282	192	59
Tailshaft 24T	2	328	831	1126	17602	7830	105	32
Malnshaft 33T	1	160	1699	2303	36002	16014	51	16
1.74:1 ratio	4	. 798	341	463	7235	3218	256	78
(optional)	3	472	577	782	12227	5439	152	46
Tailshaft 19T	2	258	1055	1430	22356	9944	83	25
Mainshaft 33T	1	126	2158	2925	45725	20339	41	12

- spindle rpm, spindle torque, and hoist speed are calculated at 2500 rpm with Deutz F3L912 diesel engine (standard) and 100% gearing efficiency.
- hoist pulls shown are calculated at maximum engine torque at 1600 rpm and 100% gearing efficiency.
- chart gives single line hoist pulls in all transmission gears. The operator must exercise caution that the rated hoist single line pull of 2490 daN (5600 lbs) must not be exceeded when using full torque in lower gears or damage may result.

JKS BOYLES

BBS 18 Surface Drill

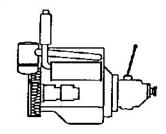
WEIGHTS AND DIMENSIONS







kg lbs W/L Hoist Assy Complete 227 500 LEVELWIND Only 54 120



POWER UNIT

kg lbs

639

170

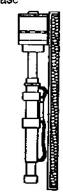
Deutz F3L912 (std) 290 Transmission 77 (Clutch included with engine)



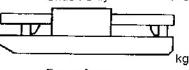
HOIST & FRONT END ASSY kg

Hoist Assy and 'A' Bracket Front End Assy Sub Base

136 300 44 98 43 95



kg lbs
12 HH Swivelhead
Complete 345 760
Chuck Only 113 250



Frame Assy Complete Hyd Tanks Only

177 390 41 90

lbs

Dimensions and weights shown are approximate. When more accurate values are required contact factory.

In the interest of product Improvement JKS Boyles reserves the right to change design, specifications and price without notice.