



Man Portable Drill Rig

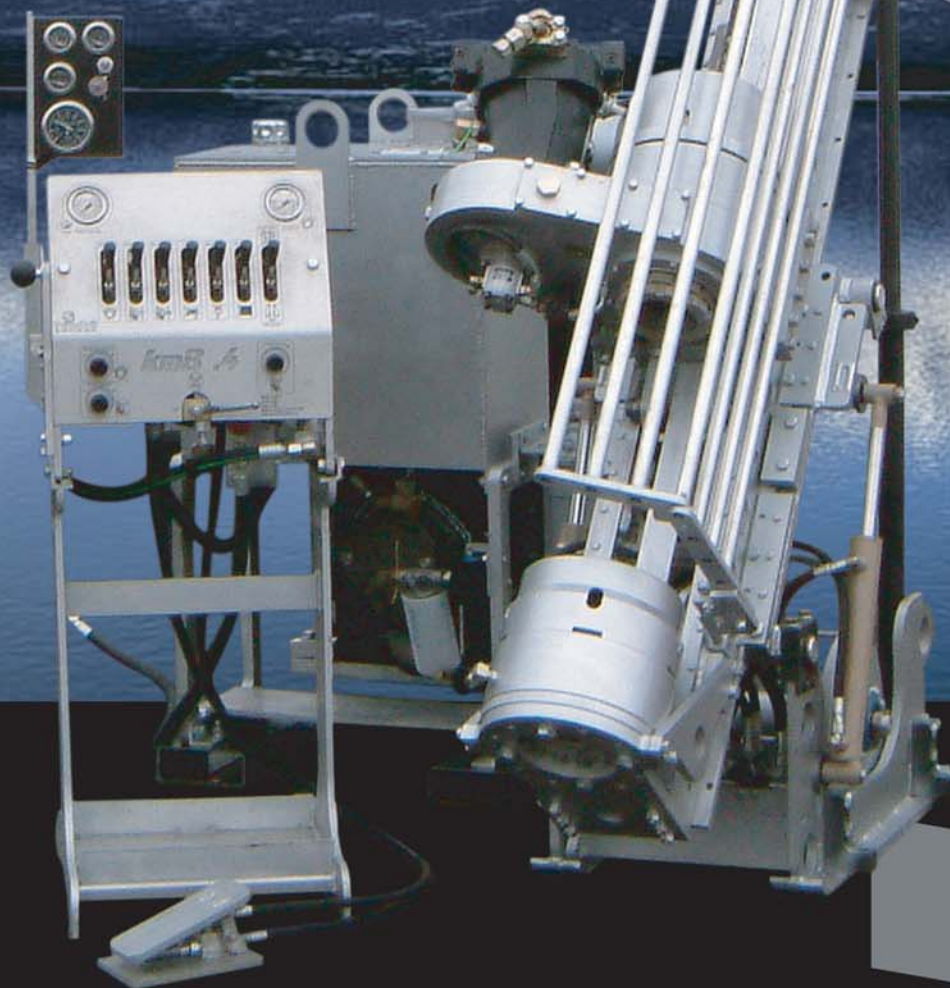
**kmb .4**

Model 2004

Range of uses

- Surface and underground drilling
- Heliport drill for fly-in program
- Environmental drilling
- Geotechnical drilling

NOW YOU CAN OWN AN ENVIRONMENTALLY FRIENDLY DRILL  
THAT COSTS LESS, IS MAN PORTABLE, AND STILL REACHES  
DEPTHS UP TO 400 METERS!



# Man portable drill rig

# kmB .4

THIS DRILL IS PERFECT FOR JUNGLE MINERAL EXPLORATION AND LIMITED ACCESS GEOTECHNICAL WORK

## FEATURES

Modular design that gives the possibility of splitting the drill apart.  
 Particularly interesting on our drill is the rod holder and the chuck that are capable of handling 1.75" (44.5mm) to 4.9" (124mm) diameter drill rods. (AQ-PQ)  
 The feed frame base can be inclined 180 degrees and positioned to the desired height.

## APPLICATIONS

Surface and underground mining exploration  
 Water well drilling  
 Geotechnical drilling  
 Environmental drilling  
 Foundations  
 Blast hole  
 Heliport drill for fly-in programs

## DEPTH CAPACITY CORING (WIREFINE OR CONVENTIONAL)

B Wireline : 1300' (400 m)  
 N Wireline : 1000' (300 m)  
 H Wireline : 600' (185 m)  
 P Wireline : 328' (100 m)

## WIREFINE HOIST CAPACITY

Max pull for Bare drum : 2000 lbs (907 kg)  
 Max pull for full drum : 650 lbs (295 kg)  
 Cable size : 3/16" (5 mm) dia. 1500' (457 m)

## HYDRAULIC SYSTEM

One Rexroth load sensed 71 cc/rev pump  
 Flow rate : 34 gpm (130 l/min) at 1800 RPM  
 Operating pressure : 4000 psi (276 bar)  
 Tank mounted return filter  
 Water to oil heat exchanger

## WEIGHT

Power unit (motor) : 890 lbs (404 kg) dry  
 Hydraulic pumps & tank : 300 lbs (136 kg) dry  
 Control panel : 185 lbs (84 kg)  
 Drill head and hydraulic motor : 330 lbs (150 kg)  
 Drill head 2 speeds transmission : 85 lbs (38 kg)  
 Rod holder : 130 lbs (59 kg)  
 Upper mast section : 300 lbs (136 kg)  
 Feed assembly : 400 lbs (181 kg)  
 Wireline hoist & mast base : 250 lbs (113 kg)  
 Engine coupling : 140 lbs (64 kg)  
 Total weight : 3600 lbs (1630 kg) dry (approx.)

## DRILLING TECHNIQUES

Diamond core drilling  
 Rotary tricone  
 Auger

## POWER UNIT:

Diesel motor Volkswagen ADE 1.9 liter Turbo, 55 hp (41 kw) a 3500 rpm  
 Diesel motor Cummins B3.3 Turbo, 80 hp (60 kw) a 2600 rpm  
 Electric motor, 60 hp (44 kw) s 1800 rpm

## FEED FRAME

Stroke : 34.5" (87.63 cm)  
 Maximum stroke speed : 340 ft/min  
 Push and pull capacity : 7600 lbs (3500 kg)

## SURFACE MAST

Stroke : 15' (4.57 m) above drill head with 3/8" (9.5mm) cable  
 Single line pull capacity : 6500 lbs (2950 kg)  
 Pull Speed : 400 ft/min  
 Speed of descent : 785 ft/min

## ROD HOLDER AND CHUCK

Chuck type : Hydraulic open, spring closed  
 Holding capacity : 10000 lbs (4536 kg)

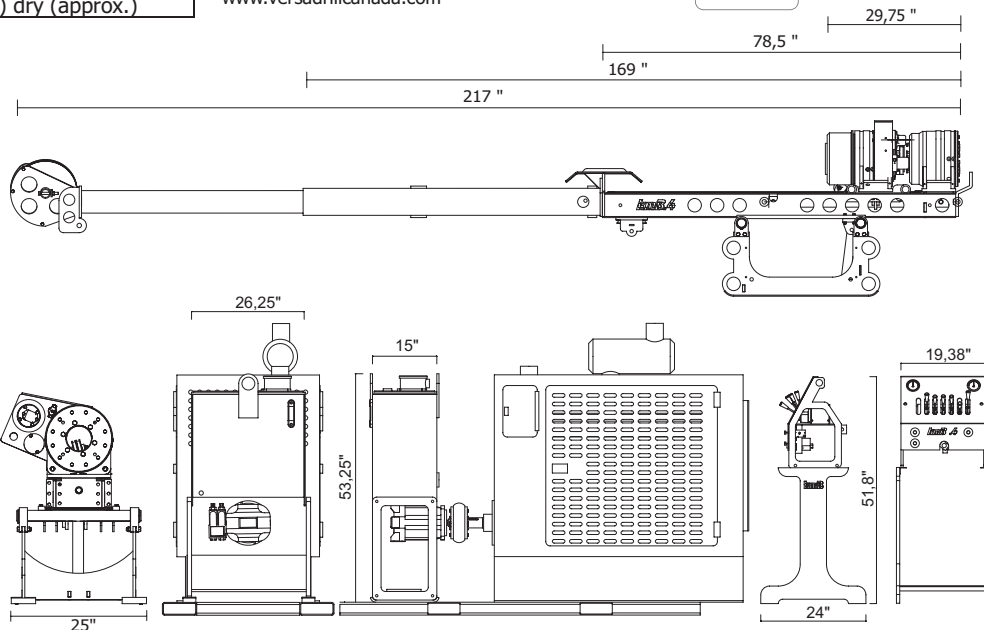
## DRILL HEAD

P-size hollow spindle : 4.9 in (124mm)  
 Motor : 45cc with 2 speed transmission or 160cc with no transmission

Speed	Ratio	RPM	Lb*ft	N*m
HI	1:1	1200	267	362
LO	3,46:1	347	923	1251



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## LOWER COST

Not only does this drill cost less to purchase, but it is less expensive to operate as well, since the drill can be carried or skidded in with an ATV four-runner or lifted in with a smaller helicopter, eliminating the need for roads and heavy equipment and the associated permits.

## ENVIRONMENTALLY-FRIENDLY

The kmB.4 is great for restricted access or environmentally sensitive areas. You can move this rig in without disturbing your surroundings. Again, no heavy construction equipment is necessary. You can fly it in, float it down a river, put it on a four-wheeler, or carry it in with manpower.

