

GRUNDODRILL 18ACS

KING OF ROCK

HDD ROCK DRILLING RIG

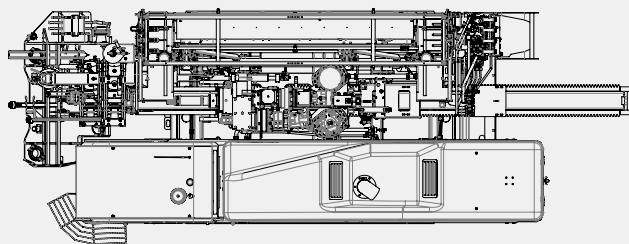
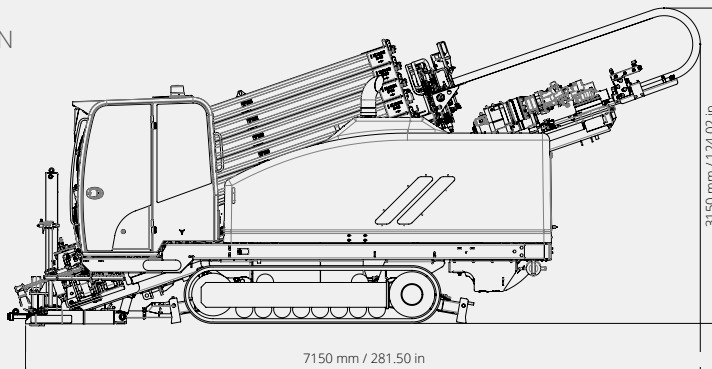




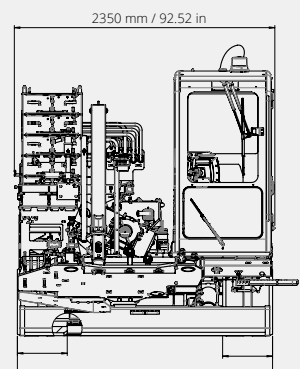
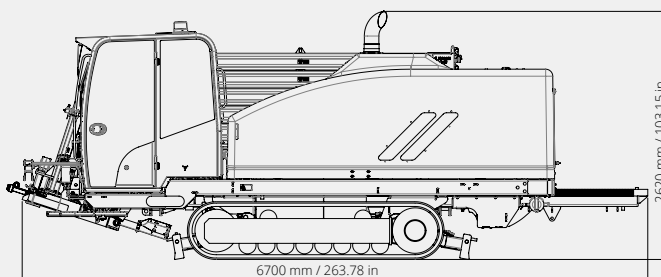
TECHNICAL SPECIFICATIONS

GRUNDODRILL 18ACS | GRUNDODRILL 18N

WORKING POSITION



TRANSPORT POSITION



Changes possible

BASIC EQUIPMENT

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 119 kW
- Stepless adjustment of torque and rotational speed for maximum rotation and highest level of productivity at any speed *
- Drill rig with rubber track undercarriage, stabilisers
- Wireless remote control
- Spacious cabin, comfortable seat, joysticks, panel PC with touchscreen, air conditioning
- Automatic bore mode
- Automatic bore mode
- Fully automatic rod exchange system
- Fully automatic clamp and break-away facility
- Anchoring system with drilling fluid collecting tray
- Powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner
- Optionally with drill rod type TD73 or TD82

* only for GRUNDODRILL 18ACS

PERFORMANCE DATA	GRUNDODRILL 18ACS DRILL ROD ELICON 95 (ROCK)	GRUNDODRILL 18ACS / 18N DRILL ROD TD73 / TD82
Thrust and pullback force [kN] 18ACS	180 (40 lbf)	180 (40 lbf)
Thrust and pullback force [kN] 18N	-	180 · 200 (40 - 45 lbf)
Max. feed rate (without load) [m/min]	36 (118 ft/min)	36 (118 ft/min)
Max. torque (outer rod) [Nm]	7.500 (5,532 lbf ft)	7.500 · 10.000 (5,532 · 7,376 lbf ft)
Max. torque (inner rod) [Nm]	2.500 (1,844 lbf ft)	-
Max. spindle speed (outer rod) [rpm] 18ACS	200	200/180
Max. spindle speed (outer rod) [rpm] 18N	-	180
Max. spindle speed (inner rod) [rpm]	350	-
HP Bentonite pump P72/320 · P72/400 [l/min]	320 · 400 (85 · 105 gpm)	320 · 400 (85 · 106 gpm)
Bentonite pressure [bar]	90 (1,305 psi)	90 (1,305 psi)
Rod magazine contents [m]	120 (394 ft)	225 · 210 (738 · 689 ft) combi-box
Number of rods [pcs]	40	75 · 70
Drill rod Ø [mm]	98/95 (3.86/3.74 in)	73/63 · 82 (2.87/2,48 · 3.23 in)
Effective rod length [mm]	3.000 (118 in)	3.000 (118 in)
Rod weight [kg]	80 (176.4 lbs)	42 · 46 (92,6 · 101.4 lbs)
Pilot bore Ø [mm]	165 (6.50 in)	115 · 140/170 (4,53 · 5,51/6.69 in)
Min. bore radius [m]	55 (180 ft)	55 · 60 (180 · 197 ft)
L x W x H (transport position) [mm]	6.700 x 2.350 x 2.620	6.700 x 2.350 x 2.620
L x W x H (transport position) [in]	263,78 x 92,52 x 103,15	263.78 x 92.52 x 103.15
L x W x H (working position) [mm]	7.150 x 3.050 x 3.150	7.150 x 3.050 x 3.150
L x W x H (working position) [in]	281.50 x 120.08 x 124.02	281.50 x 120.08 x 124.02
Max. weight with EL 95, combi box [kg]	15.350 (33841 lbs)	15.350 (33841 lbs)
Engine manufacturer	Cummins	Cummins
Engine model	QSB4.5	QSB4.5
Emissions standard	T4 final	T4 final
Max. engine output [kW]	119 (162 hp)	119 (162 hp)
Tank capacity Diesel / AdBlue [l]	180/22 (47,6/5,8 gallons)	180/22 (47.6/5.8 gallons)
Fresh water tank capacity [l]	105 (27.7 gallons)	105 (27.7 gallons)
Sound pressure level L_{pA} / Sound power level L_{wA} [dB(A)]	64.9/99	64.9/99
Workplace vibrations [m/s ²]	≤ 0.5	≤ 0.5
Inclination angle	0° - 30°	0° - 30°
Max. driving speed [km/h] 2 stages	1,3/2,2 (0.8/1.4 mph)	1,3/2,2 (0.8/1.4 mph)
Upsizing Ø* [mm]	≤ 600 (≤ 24 in)	≤ 600 (≤ 24 in)
Outer pipe Ø* [mm]	≤ 500 (≤ 20 in)	≤ 500 (≤ 20 in)
Bore length* [m]	≤ 400 (≤ 1312 ft)	≤ 400 (≤ 1312 ft)

*depending on ground

Subject to change