

GEONEX HZR610

HORIZONTAL DTH-DRILLING RIG UP TO Ø813



HZR610 drill rig is versatile contracting unit, which covers most of the infrastructural steel cased and rock drilling needs, with pneumatic air percussion hammer. This rig has a wide drilling diameter range capability from Ø219 to Ø813, but it is optimal from Ø406 to Ø610. Drilled steel casing element length can vary in 3, 6 or 12 m. Wide equipment range enables effective and accurate DTH-drilling. Options enable also pit launched HDD drilling.

APPLICATIONS FOR GEONEX HZR610

✓ Horizontal drilling with steel pipe

Steel pipe works as a casing for water, sewer, telecommunication, electric etc. flow pipes and cables.

✓ Solid rock hole drilling

Accurate straight and steered rock holes, using tracking technology.

✓ HDD assisting casings

Enables fast and safe start-up for demanding HDD drillings.

ACCESSORIES FOR GEONEX HZR610

GEONEX PP180 DIESEL DRIVEN HYDRAULIC POWER UNIT

PP180 is a compact and robust power pack. Harsh jobsite conditions set demands that have been taken care of in the engineering.



GEONEX HORIZONTAL DTH-DRILLING EQUIPMENT

Geonex provides specially for horizontal DTH-drilling developed drilling equipment: Overburden drilling systems, Horizontal drilling, DTH hammers, Augers and Tools.



GEONEX OY

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FOR MORE INFORMATION VISIT

www.geonex.fi

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TECHNICAL INFORMATION

Geonex HZR610	
Casing diameter mm (in)	< Ø 813 (32)
Rock Button diameter mm (in)	< Ø 813 (32)
DTH Hammer size	6", 8", 10", 12", 14", 18"
Weight kg (lb)	6500 (14330)
Length mm (ft in)	8100 (26' 7")
Width mm (ft in)	2360 (7' 9")
Height (Jack legs in) mm (ft in)	2200 (7' 3")
Feed lenght mm (ft)	6700 (21' 11")
Max feed force KN, slow (lbf)	370 (83180)
Max feed force KN, fast (lbf)	185 (41590)
Max feed speed, slow m/min (ft/min)	10 (32)
Max feed speed, fast m/min (ft/min)	20 (64)
Max rotation torque, slow Nm (ftlb)	58000(42770)
Max rotation torque, fast Nm (ftlb)	39000 (28750)
Max rotation speed, slow	12 r/min
Max rotation speed, fast	18 r/min
Radio controlled	
OPTION shortening frame section mm (ft)	3000 (9' 10")
OPTION extension frame mm (ft)	5000 (16' 5")
OPTION extension frame kg (lb)	1850 (4080)
OPTION Water pump	

PP180 Powerpack	
Diesel engine	Deutz TCD 6.1 L06
Engine displacement liters (cid)	6,1 / (370)
Engine power / Emission class	EU Stage 4 / Tier 4 Final
Max. engine speed	2100 rpm
Pump 1 max. flow l/min (gpm)	260 (68)
Pump 2 max. flow l/min (gpm)	260 (68)
Hydraulic max. pressure bar (psi)	350 (5070)
Electric system	24 V
Hydraulic oil capacity l (gal)	420 (110)
Fuel capacity l (gal)	500 (132)
Length mm (ft in)	2991 (9,81)
Width mm (ft in)	2438 (7,99)
Height mm (ft in)	2800 (9,18)
Weight kg (lb)	5200 (11700)
2 x 240 l/min & 14 x 40 l/min closed center LS directional valves	
Radio control	
OPTION	Generator HG18kVA
OPTION	Water pump



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PP180 Powerpack

DTH hammers for HZR610

Model	6" DTH hammer	8" DTH hammer	10" DTH hammer	12" DTH hammer	14" DTH hammer	18" DTH hammer
Casing out diameter mm (in)	219,1 (8,63")	273,0/323,9 (10,75"/12,75")	323,9/406,4 (12,75"/16,00")	406,4/508,0 (16,00"/20,00")	508,0/610,0 (20,00"/24,00")	610,0/711,0/813,0 (20,00"/28,00"/32,00")
Rock Button diameter mm (in)	152,0-203,0 (6,0"- 8,0")	203,0-305,0 (6,0"- 12,0")	254,0-357,0 (10,00"/14,00")	305,0-444,0 (12,00"/17,50")	357,0-610,0 (14,00"/24,00")	508,0-762,0 (20,00"- 30,00")
Shank type	DHD 360	DHD 380, DHD 380s	SD10, SD10 S	IR112, SD 12, IR112 S	N125, N125S	N180, N180 S
Top Adaptor type	API 3 ½" Reg. Pin	API 4 ½" Reg. Pin	API 6 5/8" Reg. Pin	API 6 5/8" Reg. Pin	API 6 5/8" Reg. Pin	API 8 5/8" Reg. Pin
Air flow at 13,8 bar (m3/min)	12,8	22,6	33,4	36,3	39,7	59,1
Air flow at 17,2 bar (m3/min)	17,1	29,1	42,1	49,0	52,1	73,7
Air flow at 20,6 bar (m3/min)	23,4	33,9	55,7	60,9	65,7	88,0



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