

GEONEX HZR400

HORIZONTAL DTH-DRILLING RIG UP TO Ø508



HZR400 is a compact and versatile contracting unit. It works in small to medium sized infrastructural steel cased and rock drilling needs, with pneumatic percussion down the hole hammer. HZR400 has a wide drilling diameter range capability from Ø139 to Ø508. Wide equipment range enables effective and accurate DTH-drilling. HZR400 Rig & PP90 Power Pack with Geonex drilling equipment is a ready solution for various infrastructural horizontal drilling needs.

APPLICATIONS FOR GEONEX HZR400

✓ 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.

✓ Versatile features

Anchoring and special applications in tight spaces and underground.

ACCESSORIES FOR GEONEX HZR400

GEONEX PP90 DIESEL DRIVEN HYDRAULIC POWER UNIT

PP90 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

Tel. +358 400 693 143

info@geonex.fi

Teollisuustie 9, FI-95600 Ylitornio, Finland

FOR MORE INFORMATION VISIT

www.geonex.fi

GEONEX HZR400

HORIZONTAL DTH-DRILLING RIG UP TO Ø508

TECHNICAL INFORMATION

Geonex HZR400	
Casing diameter mm (in)	508 (20)
Rock Button diameter mm (in)	508 (20)
DTH Hammer size	4", 5", 6", 8", 10", 12"
Weight kg (lb)	3600 (7950)
Length mm (ft in)	7550 (24' 10")
Width mm (ft in)	2000 (6' 7")
Height (Jack legs in) mm (ft in)	1800 (5' 11")
Max feed force KN (lb)	150 (33721)
Max feed speed m/min (ft/min)	10 (33)
Max rotation torque, slow Nm (ftlb)	15500 (11432)
Max rotation torque, fast Nm (ftlb)	10000 (7376)
Max rotation speed, slow	27 r/min
Max rotation speed, fast	42 r/min
Radio controlled	
OPTION shortening frame section 3000 MM	
OPTION Water pump	

PP90 Powerpack	
Diesel engine	Deutz TCD 3,6
Engine displacement liners (cid)	3,6 (220)
Engine power / Emission class	EU Stage 4 / Tier 4 Final
Max. engine speed	2300 rpm
Pump 1 max. flow l/min (gpm)	160 (42)
Pump 2 max. flow l/min (gpm)	160 (42)
Hydraulic pump 1 & 2 max press. bar (psi)	250 (3625)
Electric system	24 V
Hydraulic oil capacity l (gal)	180 (47,5)
Fuel capacity l (gal)	165 (43)
Length mm (ft in)	2170 (7' 2")
Width mm (ft in)	1240 (4' 1")
Height mm (ft in)	1900 (6' 3")
OPTION Generator HG12kVA	
Weight kg (lb)	2400 (5290)



GEONEX OY

Tel. +358 400 693 143

info@geonex.fi

Teollisuustie 9, FI-95600 Ylitornio, Finland

FOR MORE INFORMATION VISIT

www.geonex.fi

GEONEX HZR400

HORIZONTAL DTH-DRILLING RIG UP TO Ø508

DTH hammers for HZR400

Model	4" DTH hammer	5" DTH hammer	6" DTH hammer	8" DTH hammer	10" DTH hammer	12" DTH hammer
Casing out diameter mm (in)	139,7 (5,5")	168,3 (6,63")	219,1 (8,63")	273,0/323,9 (10,75"/12,75")	323,9/406,4 (12,75"/16,00")	406,4 (16,00")
Rock Button diameter mm (in)	115,0-133,0 (4,5"- 5,25")	133,0-152,0 (5,25"- 6,0")	152,0-203,0 (6,0"- 8,0")	203,0-305,0 (6,0"- 12,0")	254,0-357,0 (10,00"/14,00")	305,0-406,0 (12,00"-16,00")
Shank type	DHD 340	DHD 350	DHD 360	DHD 380, DHD 380s	SD10, SD10 S	IR112, SD 12
Top Adaptor type	API 2 3/8" Reg. Pin	API 3 1/2" Reg. Pin	API 3 1/2" Reg. Pin	API 4 1/2" Reg. Pin	API 6 5/8" Reg. Pin	API 6 5/8" Reg. Pin
Air flow at 13,8 bar (m3/min)	7,2	8,4	12,8	22,6	33,4	36,3
Air flow at 17,2 bar (m3/min)	10,5	12,9	17,1	29,1	42,1	49
Air flow at 20,6 bar (m3/min)	12,2	15,9	23,4	33,9	55,7	60,9



GEONEX OY

Tel. +358 400 693 143

info@geonex.fi

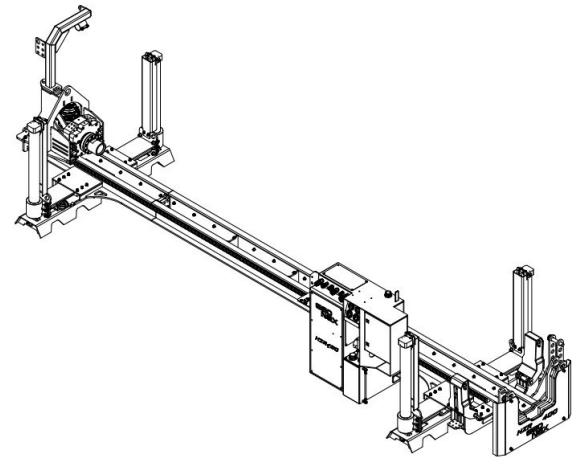
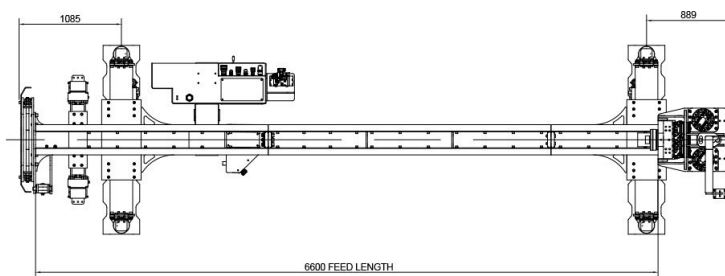
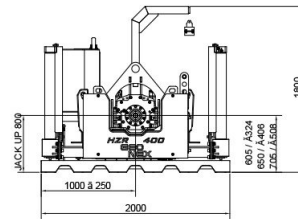
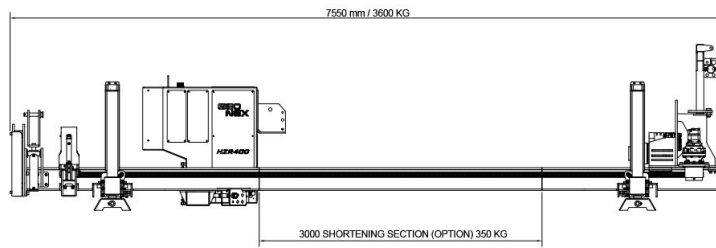
Teollisuustie 9, FI-95600 Ylitornio, Finland

FOR MORE INFORMATION VISIT

www.geonex.fi

GEONEX HZR400

HORIZONTAL DTH-DRILLING RIG UP TO Ø508



GEONEX

GEONEX OY

Tel. +358 400 693 143

info@geonex.fi

Teollisuustie 9, FI-95600 Ylitornio, Finland

FOR MORE INFORMATION VISIT

www.geonex.fi