

GEOTOOL

PROBING RIG GTR 790

Fully hydraulic
multifunctional probe
on rubber tracks

GTR 790

GTR 790 ON RUBBER TRACKS

The GTR 790 is the ideal solution for geotechnical investigations. Its compact design allows it to operate even in confined spaces without compromising performance or off-road capability. Whether for dynamic probing, drilling, or soil sampling, its fully hydraulic system ensures efficient operation with maximum precision. Robust, reliable, and highly versatile, the GTR 790 is the perfect partner for geologists and engineers.



GTR 790 MAST-CHAIN

Circular mast chain with drivers for moving and operating the attachments

- DYNAMIC PROBING WITH DROP WEIGHT
- SAMPLING WITH HYDRAULIC JACK HAMMER
- LINER SAMPLING WITH AFNOR WEIGHT
- SURFACE CORING

GTR 790 DP6T

Hydraulic mast cylinder with high traction force and carriage for mounting attachments

- ROCK CORING
- AUGER AND MUD DRILLING
- DIRECT PUSH



GTR 790 – ALL-ROUNDER FOR GEOTECHNICAL ENGINEERING – ROBUST AND PRECISE / MAST-CHAIN



Dynamic probing - DPL, DPM, DPH and SPT with continuous rod extension with fixed and lost tip.

311418 Drop Weight DIN
311034 Drop Weight SPT



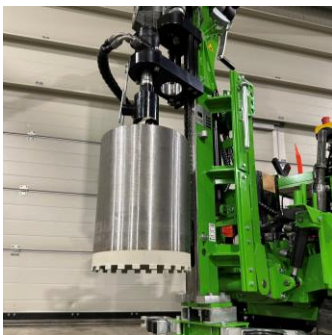
Sampling – with hydraulic hammer and open window sampling rods HD25.

311053 Atlas Copco LH 270 32x260 mm



Undisturbed Sampling– 128 kg drop hammer for single- and double-wall liner systems, including RAMBO S and DRB 60.

311042 AFNOR-Drop Weight



Road and surface coring with an easy-to-install attachment.

311017 Coring device 100 – 350 mm

TECHNICAL DATA

OVERVIEW GTR 790 MAST-CHAIN

Dimensions	Height transport	1,400 mm / 4.59 ft
	Height working position	2,900 mm / 9.51 ft
	Width transport	790 mm / 2.59 ft
	Length transport	2,400 mm / 7.87 ft
	Weight	780 kg - 1,100 kg / 1,720 - 2,425 lbs
Engine	Motor	Honda GX390
	Power	8,7 kW at 3,600 rpm
	Torque	26,5 Nm / 19.55 ft-lbs
SPT-Drop Weight / Dynamic Probing	DPL	10 kg / 22 lbs
	DPM	30 kg / 66 lbs
	DPH	50 kg / 110 lbs
	SPT	63,5 kg / 140 lbs
	Blow energy	467 Joule
	Blows/min.	15-30
	Drop height	50 cm / 75 cm 20 in / 30 in
Hydraulic Hammer / Direct Push Sampling	Weight	25 kg / 55 lbs
	Frequency	1.500 blows/min.
	Blow energy	95 Joule
AFNOR-Drop Weight / Undisturbed Sampling	Weight	32 kg / 64 kg / 96 kg / 128 kg 70 lbs / 140 lbs / 210 lbs / 290 lbs
	Drop height	75 cm / 30 in
	Diameter max.	115 mm / 4.53 in
Surface Coring / Core Probes	Diameter max.	350 mm / 13.78 in
	Revolutions	400 rpm
Casing Puller	Extraction force max.	10 t - 20 t / 22,046 - 44,092 lbs
	Passage	100 mm - 120 mm / 3.9 - 4.7 in
	Weight of unit	27 kg - 35 kg / 59.5 - 77.2 lbs



GTR 290 PROBING RIG

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GTR 790 – DRILLING TECHNOLOGY FOR GEOTECHNICAL INVESTIGATION / DP6T

Core Drilling – Two-speed core drilling drive featuring high rotational speed and high pullback force at the drill head, a side water inlet, a mast-base chuck, an integrated rod breaker for extension rods, and a modular high-pressure piston pump unit.

312026 Coring Drill Head



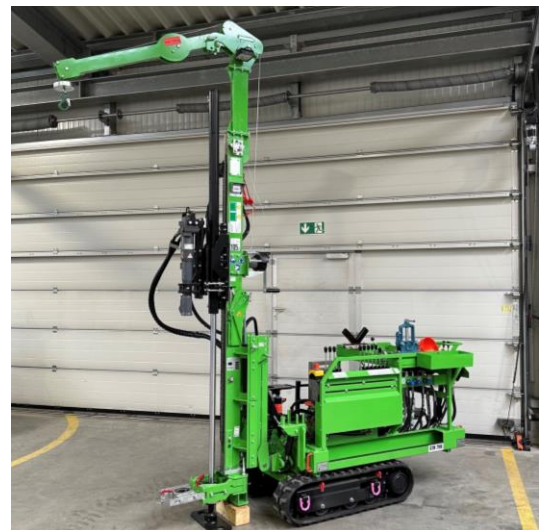
Rotary and Flush Drilling– Using the hydraulically driven DP6T mast carriage and rotary drive. High torque and high pullback force.

313662 Rotary Drill Head DP6T



Dynamic Probing – Using the hydraulically operated DP6T mast carriage and hydraulic hammer. High pullback force enables operation without a pull cylinder.

31442 Hydraulic hammer DP6T



TECHNICAL DATA

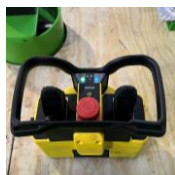
OVERVIEW GTR 790 DP6T

Dimensions	Height transport	1,750 mm / 5.74 ft
	Height working position	3,400 mm / 11.15 ft
	Width transport	790 mm / 2.59 ft
	Length transport	2,600 mm / 8.53 ft
	Weight	1,100 kg - 1,500 kg / 2,425-3,307 lbs
Engine	Motor	HONDA GX 630
	Power	15.5 kW at 3,600 rpm
	Torque	48,3 Nm / 35.6 ft-lb
Rock Coring / DP6T	1. Gear	600 rpm at 350 Nm / 260 ft-lbs
	2. Gear	1,400 Nm / 1,032 ft-lbs at 80 rpm
	Retract Force	6 t / 13,200 lbs
	Water pump	e.g. 40 liter/min. at 70 bar e.g. 10 gal/min. at 1,015 psi
Auger Drilling / DP6T	Drill head	2,500 Nm / 1,843 ft-lbs at 80 rpm
	Diameter max.	150 mm / 5.91 in
	Pulldown Force	1,8 t / 3,968 lbs (unanchored)
	Retract Force	6 t / 13,200 lbs
Hydraulic Hammer / DP6T	Weight	25 kg / 55 lbs
	Frequency	1.500 blows/min.
	Blow energy	95 Joule
	Retract Force	6 t / 13,200 lbs
Casing Puller	Extraction force max.	10 t - 20 t / 22,046 - 44,092 lbs
	Passage	100 mm - 120 mm / 3.94 - 4.72 in
	Weight of unit	27 kg - 35 kg / 59.5 - 77.2 lbs



OPTIONAL EQUIPMENT

GTR 790



Radio Remote Control

- 312297 for machine travel
 - 312121 for all hydraulic functions
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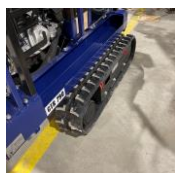
Mast Extension

- 310008 for starting with a 2 m probe
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Engine Options

- 312251 Honda GX630 Twin-Cylinder Petrol Engine
 - 341111 HATZ 1D81C Diesel Engine
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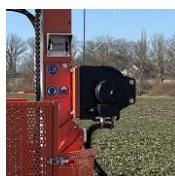
Hydraulically Expandable Undercarriage

- 311068 Assembly GTR 790
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Rod extraction jack

- 312018 closed, ID 120 mm / 4.7 in
 - 312825 3 hyd. cylinders, 120 mm, 15t
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Winches

- 311994 Rope Winch hydraulic
 - 312614 Electric Winch
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ADDITIONAL OPTIONS

- 311811 Hydraulic oil biological
- 726358 Take-Up box for 2 m rods
- 314643 Fast-motion for chain
- 311366 Footboard
- 341048 Extra hydraulic valve



GTR 790 PROBING RIG



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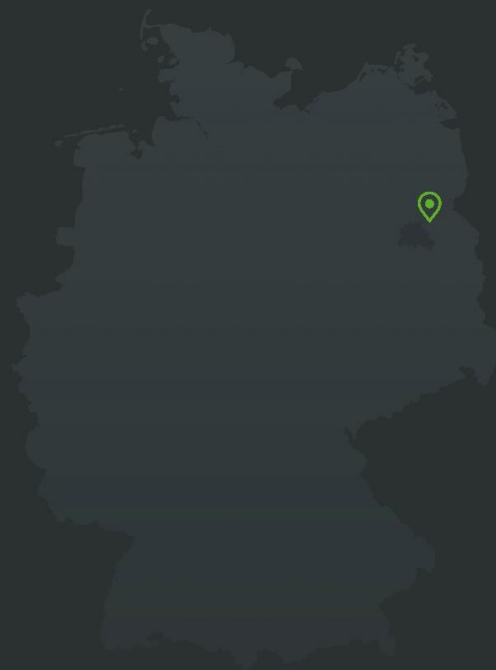
CONTACT

Do you have questions about our equipment or are you looking for a solution for your project? GEOTOOL stands for personal consultation, technical expertise and partnership support.

Feel free to call us – together we'll find the right solution.
We look forward to your inquiry.

OUR LOCATION IN GERMANY

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