

GEOTOOL

DYNAMIC
PROBING RIG
LMSR-H
MODULAR

Modular dynamic probing
unit for confined and
difficult-to-access work sites

LMSR-H

THE MODULAR, DISASSEMBLABLE DYNAMIC PROBING DEVICE OF THE **LMSR SERIES**

The new generation of soil testing – customized transport concept for maximum efficiency and mobility

The LMSR-H Modular from GEOTOOL is a compact, powerful, and versatile dynamic probing device that stands out thanks to its robust construction, folding mast, and ease of use. Whether in confined urban spaces, on hard-to-reach construction sites, or indoors, the device offers maximum flexibility for a wide range of applications. With the LMSR-H Modular, GEOTOOL is expanding the LMSR series with a highly flexible version that is tailored to changing requirements and applications. The modular design allows for quick disassembly and reassembly at the drilling site, making it the ideal choice for construction sites with special requirements or changing conditions.

PREFERRED WORKING AREAS

Enclosed spaces and existing infrastructure

Cramped working conditions

Rail tracks, railway embankments, dykes, and spoil heaps

Excavation pits and shafts

Workplaces that are difficult to access



LMSR-H MODULAR WITH HYDRAULIC MOTOR

The system is built on a stable frame. Modular crank supports are installed at its four corners, which are used to raise the device and thus also level it. The LMSR-H Modular dynamic testing device is driven by a hydraulic motor. This is operated by a separate hydraulic unit. The unit also operates the hydraulic pull cylinder.

The device is disassembled and assembled using tool-free bolt and spring pin connections. The main parts are the mast, the base frame, the support legs, the hydraulic control station, the impact unit, the power unit, and the pull cylinder. The device can also be moved and transported when assembled.

TECHNICAL DATA

OVERVIEW

Product variant	LMSR-H Modular
Height of mast	2,000 mm 78.7 in
Weight	ca. 280 kg 620 lbs
Base area	1 sqm 11 sf
Dynamic Probing	DPL 10,0 kg 22 lbs DPM 30,0 kg 66 lbs DPH 50,0 kg 110 lbs SPT 63,5 kg 140 lbs 467 Joule 15 – 30 500 mm 750 mm 20 in 30 in
Blow energy max.	
Blows/min	
Drop height	
Direct Push	up to 80 mm 3.15 in
Tool length	up to 100 mm 4 in
Module	Hydraulic unit 11/12 VZ
Product type	Mobile unit with 1-cylinder gasoline engine
Drive	Honda GX 160 1 cylinder Gasoline
Power	4.8 hp at 3,600 rpm
Tank capacity	3.1 liter 0.82 gal
Weight	60 kg 133 lbs
Module	Hydraulic extraction unit
Pull-up force	15 t 33,000 lbs
Passage	120 mm 4.7 in
Weight	27 kg 60 lbs



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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