TERRA SONIC INTERNATIONAL

GEOTHERMAL PACKAGE

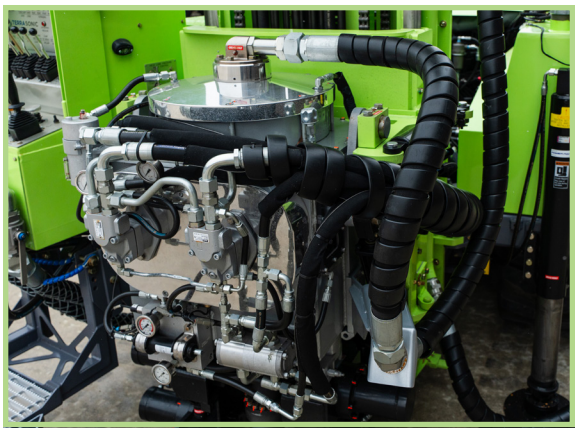
### TSi 150CC SONIC DRILL RIG

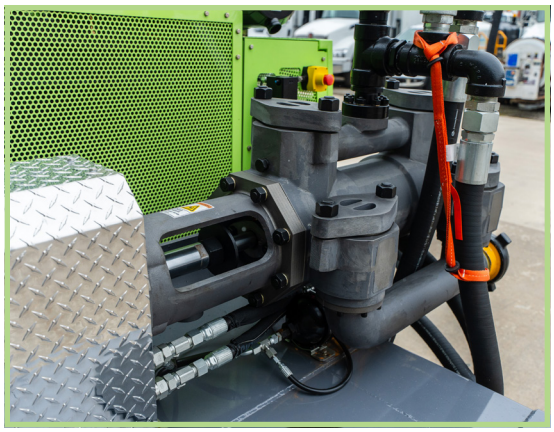
# GEOTHERMAL PACKAGE

SPECIALIZED ACCESSORY SELECTIONS FOR SPECIFIC WORKLOADS

## About the Geothermal Package

The Terra Sonic 150CC Geothermal Package is a purpose-built configuration engineered to meet the fluid-management, grouting, and circulation demands of geothermal drilling applications. Designed to complement the proven capabilities of the 150CC sonic drill rig, this package integrates high-capacity pumping, dedicated mist and grout systems, and robust 2-inch plumbing to support efficient borehole construction across a range of geothermal site conditions.





## PART LIST:

| Description |
|---|
| **Centerline 150 GPM Pump** |
| Provides dependable high-volume water circulation during drilling operations. |
| **FMC 9 GPM Mist Pump** |
| Supports mist-drilling applications where reduced fluid volume or air-assisted drilling is advantageous. |
| **LL6 Moyno Grout Pump with the standard FMC 42 GPM Pump** |
| For controlled grout placement and reliable drilling-fluid support. |
| **2” Plumbing** |
| Provides efficient flow capacity and durable fluid delivery between components |

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# ADDITIONAL INFORMATION

## Centerline Pump

The Terra Sonic Centerline Pump Option is an addon for the 2” Water Line that provides a rugged mud pump from Centerline Manufacturing. The CLM Mono Hydraulic Mud Pump can produce up to 150 GPM, three times the standard FMC Bean pump.

A 60-gallon water tank is integrated into the mounting base of the mud pump assembly. This tank can be connected to the standard FMC Bean pump for any task requiring a little bit of water, such as using the washdown gun or cleaning out a core barrel.

## Mist Pump

The Terra Sonic Mist Pump Option is an addon for the 2” Water Line Option that provides an additional water pump for misting the bore hole when running with compressed air. The mist pump runs at a much lower flow rate than the standard water pump, allowing the driller to add just enough water to eliminate dust without wasting water or creating a mess. For comparison, the mist pump can produce flows from 2 to 10 GPM, while the standard pump can produce 20 to 50 GPM.

## Grout Pump

The Terra Sonic Grout Pump Option provides a progressive cavity pump from Liberty Process that excels at pumping heavy, viscous fluids, like grout and drilling mud. Two sizes of grout pump are available, depending on the desired flow rate. The 3LL6 and 3LL8 pump models can provide up to 35 GPM and 80 GPM, respectively.

## 2” Water Line

The Terra Sonic 2” Water Line Option adds a larger pipeline for sending more water or air down the bore hole. The 2” line is fully integrated into the rig tower to keep the drill site free of clutter. The standard 1in line and FMC Bean pump are left installed in case the driller only has access to a limited amount of water. The inlet for the 2” water line on the 150CC Compact Crawler is located on the front-left corner of the rig and uses a hammer union to ensure a more secure hose connection.