



CHRISTIE ENGINEERING

ABN 062468

Hydraulic Soil Sampling Machines



ABOUT

Hydraulic Soil Sampling Machine

Christie Engineering manufactures a wide range of soil sampling equipment whether it be hand held post driver kits, hydraulic hammer powered machines, and larger rotary drill rigs, all of our machines are designed and built in Australia by us. These machines are specifically **developed for Australia's hard and dry ground conditions** and are capable of taking undisturbed soil samples to depths of 1 to 2 meters.

The soil sampling machine is **light weight, easy to operate** and easy to mount onto a Hayman-Reece 50mm square type tow bar for convenient transport. It can also be mounted to any ute or tray back vehicle with this tow bar style. The soil sampling machine can also be integrated and mounted in a box trailer, UTV, tractor or other custom vehicle. We **can customize any machine** or tool to your specifications.

Some holes will need to be drilled to mount the mast, There will be 1 hole for your towbar pin location and 2 holes for the stays that stabilise the mast. The **Honda hydraulic power pack** should be bolted down with 4 bolts, however can be ratchet tied/chained down for quick removal. The machines can be **easily operated by one person with no specialty training** required.

Our coring tubes are made from custom high tensile chrome moly tubing with forged cutting tips making **fast sampling** possible. Depths of 1 meter or more is achievable in seconds.

Christie Engineering's soil sampling machines are currently used by leading fertilizer suppliers, environmental companies, Universities and government departments.

Features

- 1.1m. or 1.6m stroke in the hydraulic cylinder is available.
- The standard kit comes with the pull start hydraulic power unit, driven by a Honda GX270 9HP and a 25 litre aluminium hydraulic oil tank. An electric start and larger 40 litre hydraulic oil tanks on the power packs are available with the GX390 Honda engine.
- The mast has adjustable down-force for any weight vehicle, so the vehicle will not lift up off the ground. Has a maximum pull up of 3,000 kg with hydraulic pressure set at 2500psi.
- Atlas Copco Hydraulic sampling hammer, weighing 22kg and producing 22-36Hz. Giving 1500 - 2100 blows/min
- Adjustable support foot to suit vehicle height when extracting tubes.
- Two standard chrome molybdenum probe tubes are supplied with each machine. (38mm x 1.1m). or (50mm x 1.6m)
- Machines are shipped in 2 pallets, the power pack, and the mast with tubes and tooling.
- Fitting is available in our factory in Sydney if the vehicle or trailer is dropped off for approx. 3 hours.
- Major parts are powder coated safety yellow for durability.
- Safety decals instruction and operation manuals supplied with the soil sampler.



Mast Options

Tilting Hydraulic Masts

1.6m tilting mast Christie soil sampler POA
(comes with larger electric start powerpack)



Vertical Masts

1.1m vertical mast Christie soil sampler POA
1.6m vertical mast Christie soil sampler POA



Power Pack Options

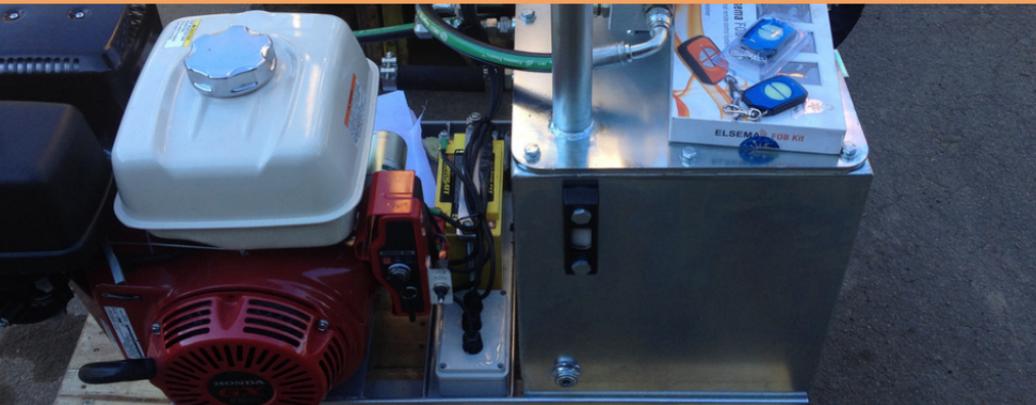
Pull Start

Honda GX270 9HP included in standard vertical mast pricing



Electric Start

Honda GX390 13HP E-start with 40L oil tank comes standard on tilting mast.
(Optional extra on the vertical mast POA extra upgrade for fixed vertical mast)



Consumables

Soil Sampling Tubes

SST38mm x 1100mm/SST50mm x 1600mm
Standard sizes (OD)



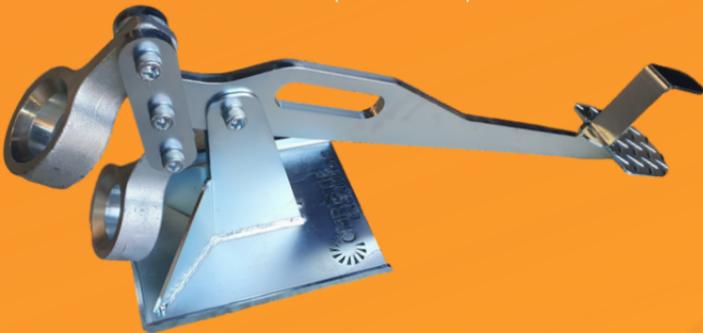
Anvils

Anvil 1 1/8 (28mm) Hex Suit Atlas Copco



Footjack

SSM FJ50 (50mm Collar)
SSM FJ38 (38mm Collar)





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