



**CHRISTIE  
ENGINEERING**

## HYDRAULIC SOIL SAMPLING MACHINES



# ABOUT

## Hydraulic Soil Sampling Machines

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 in house. These machines are specifically **developed for Australia's hard and dry ground conditions** and are capable of taking undisturbed soil samples to depths of 2 meters or more.

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 to a box trailer, UTV, tractor or other custom vehicle. Machines and tools can be **customised to your specifications**.

To mount the Soil Sampling Machine, some holes will need to be drilled to the tray or trailer, there will be 1 hole for your tow bar pin location and 2 holes for the stays that stabilise the mast. The **Honda power pack** is safer 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 speciality training** required.

The **Soil Sampling Tubes** are made from custom high tensile chrome moly tubing with forged cutting tips making **fast sampling** possible. Depths of up to 2 metres or more are achievable in seconds.

Christie Engineering's **Soil Sampling Machines** are currently used by leading fertiliser suppliers, environmental companies, universities and government departments.

# Features

- 1.1m or 1.6m stroke for the hydraulic cylinder are available.
- The standard kit comes with a pull start hydraulic power unit, driven by a Honda GX270 9HP and a 25L aluminium hydraulic oil tank. Option to upgrade to a Honda GX390 with electric start and large 40L hydraulic oil tank.
- The mast has adjustable down-force for any weight vehicle, to assist in keeping the vehicle stable during use.
- Maximum pull up of 3,000kg with hydraulic pressure set at 2500psi.
- Atlas Copco hydraulic sampling hammer, weighing 22kg and producing 22-36Hz. 1500 - 2100 blows/min.
- Adjustable support foot to match vehicle height when extracting tubes.
- Two standard chrome molybdenum probe tubes are supplied with each machine. Option for either 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 and Operating Manual supplied.



# Mast Options

## Vertical Masts

1.1m vertical mast Christie Soil Sampling Machine

1.6m vertical mast Christie Soil Sampling Machine



## Tilting Hydraulic Masts

1.6m tilting mast Christie Soil Sampling Machine

Supplied with larger electric start power pack

Ute mounted or trailer mounted models



# 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.



# Accessories



## Soil Sampling Tubes

SST38mm x 1100mm

SST50mm x 1600mm

Standard sizes (OD)

Other lengths on request

Heat treated



## Footjack

SSM FJ38 (38mm Collar)

SSM FJ50 (50mm Collar)

SSM FJ57 (57mm Collar)



## Anvils

Anvil 1 1/8" (28mm) Hex for Atlas Copco

Anvil 7/8" (22mm) Hex (for earlier Stanley models)

With 38mm or 50mm Extractor Collars and Chains



## Soil Sampling Kit

Includes:

CHPD107 Christie Post Driver

SSM FJ50 Foot Jack (supplied with 50mm Collar)

2 x SST50 x 1600mm Soil Sampling Tubes



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