

## HYDRAULIC SOIL SAMPLING MACHINES

Christie Engineering Pty Ltd. 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 a depths of 1 to 2 meters.

The machine is light weight, easy to operate and easy to mount onto a Hayman-Reece 50mm square type tow bar for convenient transport and can 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 vehicles, and 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 the 2 stays that stabilise the mast, the hydraulic power pack should be bolted down with the 4 bolts, also but can be ratchet tied or chained down for quick removal.

Our machines are a one person easy operation and requires no specially trained operators with a few simple instructions anyone can operate the machine.

Fast Sampling is possible with our coring tubes, depths of 1 meter or more in seconds are possible and penetrates all common soils by using our custom high tensile chrome moly tubing with forged cutting tips.

The Honda hydraulic power unit which powers the system is mounted on the flat tray the vehicle.

These machines are currently used by leading fertilizer suppliers, environmental companies and Universities and government departments.

Features:

- 2 lengths of stroke in the hydraulic cylinder mast is available, a 1.1m. or 1.6m stroke.
- 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.
- Mast has adjustable down-force for any weight vehicle, so the vehicle will not lift up off the ground, and maximum pull up of 3,000 kg with hydraulic pressure set at 2500psi.
- Atlas Copco Hydraulic sampling hammer, weighing 22kg and producing 22-36Hz. And 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 powdercoated safety yellow for durability.
- Safety decals instruction and operation manuals supplied with the soil sampler.



**Tilting hydraulic masts are available:**



**Vertical mast Christie Soil Sampler**





**Electric start**



**Pull start**

