

Seismic Equipment

Drilling rigs

Webster Drilling has over 120 active drilling rigs to support our general drilling contracts. These range from hand-held to a fully automated oil & gas drilling rig rated to 4,500m. The company has specialised in remote & rugged terrain seismic drilling with the following:

Webster Drilling HPP-150 heliportable drilling rig

The Webster Drilling HPP-150 (Heli/People Portable) “Helirig” has been continuously evolving since it was first introduced in 1994 on seismic shothole drilling projects in remote and rugged terrain of Papua New Guinea and New Zealand.

Utilising an all steel construction, the rigs are tough yet easy to repair in remote areas with limited workshop facilities. They feature lightweight engines, with Vanguard 22HP & 30HP petrol and Kohler 30HP diesel engine options; this enables them to be flown by small helicopters, mobilised on small vehicles and even broken down into several modules for people portable operations in extremely tight sites. The rig is able to run a wide range of drilling systems.

Since the first prototype, we have manufactured over 100 of these drilling rigs in our Wellington workshop, ensuring exceptional quality and continued improvement and innovation.

The drilling rigs have proven themselves over a huge variety of terrain and applications, all over the world.



Webster Drilling HPP-150 helicopter/people portable drilling rig	
Total Weight of a single drilling unit	305kg (65kg heaviest module)
Drilling method (auger, flushing, sonic, etc.)	Auger, Flushing, Air
Length of individual drill pipes	1.5m
Smallest Internal diameter (mm) of the drill pipe	20mm
Drill bit type	Auger, Dragbit, Downhole hammer
Additional information	Mudtank can be built in for rotary mud drilling. These drilling rigs can be quickly converted to towable mode for operations over rolling farmland



Webster Hand Carry (HC) drilling rigs

We also have a number of man portable options available for shallower holes. Hand in hand with our development of heli-portable drilling rigs we've been innovating continuously with the design of our hand-carried drilling rigs. Now in their fifth generation, with various engine sizes (2-stroke and 4-stroke)



Webster Drilling SD-100 Sonic rig

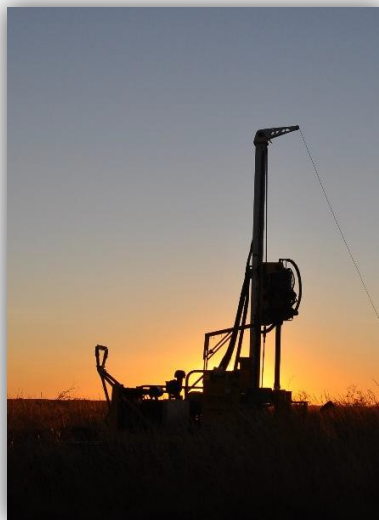
Designed specifically for seismic work, low impact Webster Drilling Sonic rigs are ideal for a problematic collapsing volcanic alluvial deposits where they have been used to great effect in the past. Fitted with a rod carousel to eliminate rod handling. The rig is mobilised on a trailer frame with large agricultural balloon tyres towed by a farm tractor, the frame has levelling jacks requiring zero dig-outs.

They have also been utilised very successfully on large projects in Australia, on Barrow Island in heliportable mode and in Hunter Valley state forests in trailer mode.

Historically, these difficult formations have been drilled with large tractor or truck rigs, often requiring multiple attempts to achieve a completed hole and having significant environmental impacts and restoration requirements.

The sonic system allows loading through a fully cased hole which guarantees charges to the bottom in all occasions.

Webster Drilling SD-100 sonic drilling rig	
Number of drilling units	6 available
Type of vehicles on which drilling units are mounted	Towable, mounted on agricultural balloon tyres or mounted on tracked carrier or 4WD truck
Drilling method (auger, flushing, sonic, etc.)	Sonic flush
Length of individual drill pipes	3.0m
Smallest Internal Diameter (mm) of the drill pipe	68mm
Drill bit type	Sonic threaded casing



Webster Drilling TM-250 and TM-200

The TM-250 and TM-200 represent over 30 years of evolution of Webster Drilling tractor mounted drilling rigs. These rigs have fully rotary guarding, powered pipe handling with no slip spanners, pipe wrenches or cheater bars. The TM-250 is also fitted with a rod carousel. The masts are tiltable for safe operations over rolling terrain.

Webster Drilling TM-250 tractor mounted drilling rig	
Number of drilling units	1 trialled prototype available (plus more in production)
Type of vehicles on which drilling units are mounted	50 HP 4WD Kubota BX5100 HST tractor
Drilling method (auger, flushing, sonic, etc.)	Auger, Flush
Length of individual drill pipes	3.7m
Drill bit type	Auger, Drag, Tri-cone
Additional information	Rod carousel and powered break-out table.
Webster Drilling TM-200 tractor mounted drilling rig	
Number of drilling units	4 available
Number and type of vehicles on which drilling units are mounted	40 HP 4WD Kubota SVT40 tractor
Drilling method (auger, flushing, sonic, etc.)	Auger, Flush, Air
Length of individual drill pipes	3.0m
Drill bit type	Auger, Drag, Tri-cone
Additional information	Has a small trailer to carry consumables and drilling rods.



The Webster Drilling BP-100 (Backpack Portable) drilling rig is a miniature rig incorporating decades of seismic drilling experience. We have carried out shothole drilling projects in the remote and rugged terrain of Papua New Guinea, New Zealand and around other difficult locations around the world.

CAD designed in-house utilising the latest in fabrication techniques and componentary to create a drilling rig able to be backpacked over remote and extremely steep terrain.

All air operated, supported by WD HeliComp compressors these rigs are ideal for drilling with down-hole hammers.

Provides the portability of hand-held rigs, but with a higher torque (up to 450ft/lbs) and pull-back (500kg).

Weight: breaks down into 3 hands-free backpack modules under 25kg. Footprint: 0.85m long, 0.65m wide & 1.8m high.

Drilling capacity: 12m @ 75mm diameter.

