

# Watson & Hillhouse

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## Water Jetters - Hughes/W&H

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### Introduction

Developed by Hughes and Watson & Hillhouse, the purpose of the high pressure water jetting unit is to enhance performance - particularly in dense granular soils - of silent and vibration-free hydraulic pile pressing machines, such as the Kowan Still Worker, and hydraulic vibrators. Productivity and flexibility of use is considerably improved when used in conjunction with water jetting.

Dense granular strata can be successfully penetrated with the Kowan Still Worker when water jetting is used. In clay soils, low pressure jetting is sometimes used with the Still Worker to lubricate the pile and reduce friction.



A lance is fitted inside the pile pan and both are driven simultaneously into the ground. Once the required depth is reached the lance is removed and is ready for re-use. Normally at least two lances are used to maintain productivity.

Water jetting can also be used to loosen soil around a pile when vibratory pile extraction is difficult. Steel jetting pipes are attached to a sheet pile and connected to the water jetter by hoses. The pile complete with pipes is installed adjacent to the pile. The jet of fluid loosens the soil around the pile thereby reducing the pile skin friction allowing the vibrator to extract the pile.

### Features/Benefits

- Environmentally friendly
- Comprehensive fail-safe systems
- Remote control (optional)
- Two jetting lances may be operated simultaneously from one pump
- Pump design allows use of sea water for jetting purposes
- Engine complies to current EU emissions and noise requirements
- Variable flow/pressure control and a variety of nozzles to suit differing conditions

#### Technical Specifications

#### Hughes/W&H HPS2200

Maximum pressure	170 bar adjustable via RPM
Flow	150- 285 LPM ( 33- 62.7IGPM )
Engine type	Stage 4 Perkins 1206F-E70TTA
Engine output	129 kW continuous or 143 kW intermittent at 1850 rpm
Engine speed	1000-1850 rpm
Dimensions	L 3.6 m x W 1.9 m x H 2.25 m
Weight	4500 kg
Fuel tank capacity	200 litres
Noise level	74 Db (A) @ 7 m

*All measurements are approximate and are subject to change.  
Please contact us if you need exact measurements for a specific piece of equipment.*



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