

# Woma-W&H Sound Reduced Piling Water Jetters

## European Agents



WOMA-W&amp;H SJ150

### Introduction

Developed by Watson & Hillhouse and Woma GB, the purpose of the high pressure water jetting unit is to enhance performance – particularly in dense granular soils – of hydraulic silent and vibration-free pile pressing machines, such as the Tosa Still Worker, and large high frequency 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 Tosa Still Worker when water jetting is used. In clay soils, low pressure jetting is sometimes used with the Tosa 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.

### Features

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



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# Technical Data

Performance	Woma-W&H SJ150	Woma-W&H BJ150
Maximum Pressure	2000 PSI (150 bar)	2000 PSI (150 bar)
Flow	100 LPM (22 IGPM) – 327 LPM (71 IGPM)	100 LPM (22 IGPM) – 327 LPM (71 IGPM)
Engine type	Perkins 1106-C 6 cylinder	Perkins 1106-C 6 cylinder
Engine Output	112 Kw @ 1800rpm	112 Kw @ 1800rpm
Engine Speed	1000-1800 rpm	1000-1800 rpm
Dimensions	L 3.5m x W 1.5m x H 2.0m	L 3.0m x W 1.5m x H 2.0m
Weight	4000kg	3500kg
Fuel Tank Capacity	200 Litre	200 Litre
Noise Level	74 Db (A) @ 7 metres	74 Db (A) @ 7 metres

## Detailed spec: SJ150

### Transmission

Integral gearbox incorporated into drive end of pump with forced lubrication of con rod and main bearings.

### Pump Control

Pneumatically actuated spill valve to enable offload start, off-load return back to pump inlet pipe work and check valve to prevent water supply to the nozzle when off-load.

### Coupling

Pump and engine close coupled by way of a flexible drive coupling. A mechanically actuated over-centre clutch is fitted for engine maintenance purposes.

### Skid Frame

The entire unit is mounted onto a free standing skid frame manufactured from box section steel, blasted to SA 2.5, primed and coated. Incorporates 200 litre capacity fuel tank, with mounted fuel transfer pump refuelling by a system that includes standpipe and fittings.

### Boost Pump

Driven from the engine power take off via belt drive. Maintains ideal pump suction conditions for extended life and reliability. Of stainless steel construction for use with seawater.

### Sound Reduced Enclosure

The package is housed within a sound reduced enclosure designed to restrict outside noise levels to 74 Db(A) at 7 metres. Supplied with large diameter two point central lifting facility, recessed spring loaded steps and forklift pockets. All services terminate together at bulkhead position and suction point with heavy duty fire hydrant connections, with all hose connections labelled. Encapsulated "Instructions for Use" located inside the instrument door panel. All doors fitted with heavy-duty hinges and lockable door catches.

## Detailed spec: BJ150

### Transmission

Integral gearbox incorporated into drive end of pump.

### Pump Control

Manually actuated spill valve to enable offload start and pressure control.

### Coupling

Pump and engine close coupled by way of a flexible drive coupling.

### Skid Frame

The entire unit is mounted onto a free standing skid frame manufactured from box section steel, blasted to SA 2.5, primed and coated. Incorporates 200 litre capacity fuel tank.

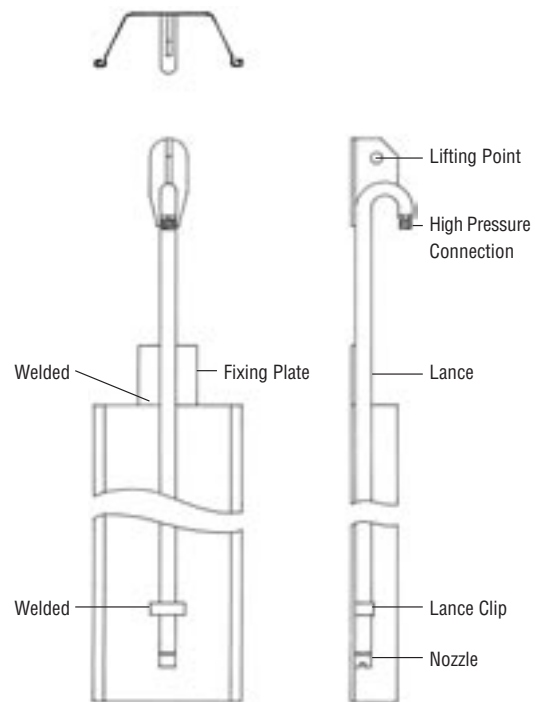
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## Water Jetting Lance Fixing for use with Tosa Still Worker



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