

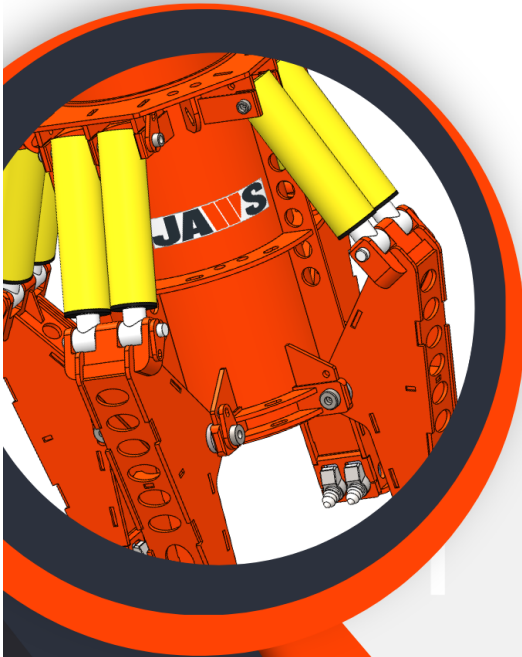
JAWS[®]

SAFETY & OPERATING

MANUAL

PBH 650

- Weight 1450kg
- Max Pile size 650mm
- Min Pile size 300mm
- Max Pressure 200 Bar
- Hyd Oil Flow 100l/min
- Centre Hole 590mm
- Height 1589mm
- Width 1200mm



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1.

Safety & Operating Manual

1.Introduction

This custom-made Pile Breaker is designed to work in conjunction with a digger/excavator. It is coupled using quick attach flow and return couplings.

When the auxiliaries are activated 4 chisels with a pointed carbide inserts at the end extend. These compress the pile causing it to fracture. It can be used on round piles.

However, prior to operating this machine it is essential that you adhere to the following instructions and safety measures outlined below in Section 3 and ensure that you have carried out a suitable and sufficient risk assessment, ensure that all operatives are trained and competent and ensure that the lifting equipment and lifting attachments have been statutory inspected and are safe to use.

IT IS ESSENTIAL THAT IN BETWEEN USE THE PILE BREAKING CROPPING DEVICE MUST BE STORED ON A SAFE, LEVEL PLATFORM.

2. Setup and Operating Instructions

STEP 2.1 – Connecting to Digger/Excavator

Using the large lifting eye on the chain attach to the digger through the main pin on the end of the jib.

IMPORTANT:

Ensure digger pin is securely fastened before pile breaker is lifted off the ground.
The pile breaker is suspended on a chain at the end of the jig.

Take extra care when moving the pile breaker into position. It is recommended that a suitably trained banksman is present to assist and there is no person in the under area when lifting into position. Also note the lifting equipment and attachment must have been statutory tested and are safe to use.

Ensure that the pile breaker is set up correctly for the size of piles you are planning to break.

STEP 2.2 – Breaking the Pile

Align the pile breaker up with the top of the pile and slowly lower down the pile. Remove a maximum of 300mm at a time.

Activate the auxiliary hydraulics from the digger, hence causing the hydraulic chisels to extend into the pile causing it to fracture at the point of contact.

Lift the broken part of the pile away from the pile carefully and safely avoiding any contact with the machine and standing directly underneath it.

Retract the rams and repeat this operation until the pile is lowered to the desired height.

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STEP 2.2 – Breaking the Pile ..continued

When inserting the hydraulic chisels, ONLY insert until pile is cracked in the horizontal plain.

When this is achieved, extract the approx. 300 dia biscuit off and repeat the process until the pile is finished to the desired level.

IMPORTANT:

During breaking of the pile the concrete will fracture at point of contact, with the possibility of causing fragments to be projected from the pile.

Ensure there is no person within a 6 Metre radius of the pile prior to breaking the pile.

Ensure the plant (digger or excavator) has an appropriate grill on the window and surrounding areas are protected.

THE MAXIMUM HYDRAULIC PRESSURE OF THIS CROPPER IS SHOWN ON THE FRONT SHEET.

STEP 2.3 - Detaching pile breaker from digger

Position the pile breaker on a flat surface which is safe and safe access can be made.

Before disconnecting the quick-attach hydraulic couplings relieve all pressure in the lines.

Detach from the digger by removing pin from lifting eye.

3. Instructions and Safety Measures



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3.



ALWAYS	NEVER
Wear appropriate Personal Protective Equipment (PPE) including: - A hard hat - Safety shoes - Safety glasses, goggles or face shield - Safety gloves - Hearing protection - Reflective clothing - Dust mask	Never modify or remove any part of the machine (This may only be done so for servicing by a trained and competent person).

ALWAYS	NEVER
Know the capacity and operating characteristics of this machine and DO NOT exceed the aforementioned. Use a trained Banksman at all times and maintain clear visual and verbal communication with them. Check lifting chains and correct lifting capacity before use. Check that the lifting eyes, chain and shackles are in good condition before use and have been statutory tested. Check all bolts, nuts and hydraulic fittings are tight before use. Check the hydraulic system is in good condition including; fittings, hose, cylinders, valves etc. Ensure no leaks.	Never disconnect hydraulic lines before relieving all the pressure. Never use the hydraulic hoses as a handle. Never overload the chains or cropper. Never stand directly under any elevated croppers or any other related equipment/machinery before, during and after use. Never use the Cropper for anything other than its intended use. Never arrive onsite without the appropriate PPE gear and equipment.

4.



ALWAYS	NEVER
Check the structure is in good condition, including; cracks on welds, pins etc. Check the carbide bullets are in good condition (if not this can put excessive pressure on the structure of the machine during operation). Before applying pressure to the hydraulic system, be sure all connections are tight and that lines, pipes and hoses are not damaged.	Never stand within a 6 Metre radius of the pile prior to breaking the pile. Ensure fluid leaks are cleaned up safely and never expose your skin to such fluids. Under no circumstances are you to get inside the cropper, stand on the cropper or come into contact with it during use.

Warning: hydraulic fluid under pressure can penetrate the skin or eyes and cause serious personal injury, blindness or death. Fluid leaks, under pressure, may not be visible. Use a piece of cardboard or wood to find leaks. **DO NOT** use your bare hand. Wear a face shield or safety goggles for eye protection.

If any fluid is injected into the skin, it **MUST** be surgically removed by a doctor familiar with this type of injury.