

Hi-Force®

HYDRAULIC TOOLS

INSTRUCTION MANUAL:

Model Series: JCS & JCH Compact Jacks

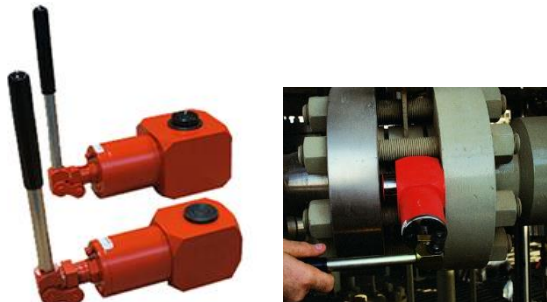


Hi-Force Compact Jack Series: JCS and JCH

JCS Models have solid piston and are spring assisted return.

JCH models have a hollow bore piston and are gravity return.

JCS Compact Jacks:



JCH Compact Jacks:



All Hi-Force JCS and JCH series jacks are supplied from the factory pre-filled with oil, and are ready for use.

1.0 Inspection of the product upon receipt:

On receipt of the product, visually inspect the item for any evidence of shipping damage. Please note shipping damage is not covered by warranty. If shipping damage is found notify the carrier immediately and refrain from putting the product into service. The carrier is responsible for repair and replacement costs resulting from damage in transit shipment.

2.0 Safety Precautions:



Read and follow all the instructions and safety warnings carefully prior to use of the equipment. Failure to do so could result in equipment damage or failure of the equipment or personal injury. Hi-Force will not be held responsible for any damage to the equipment or personal injury resulting from unsafe use of the product, lack of maintenance or incorrect operation. If in doubt on the correct usage of any Hi-Force equipment, contact your nearest Hi-Force office or distributor. If the operator has not been trained on high pressure hydraulic equipment and its safe use consult your local Hi-Force sales office who can offer you training courses for operators.

All operators should ensure that all necessary personal protective equipment as specified by their employer is worn when operating any hydraulic equipment. Safety shoes, safety glasses/visor and protective gloves should be worn at all times. All relevant risk assessments should be completed prior to use of the equipment.

Description:

This equipment is provided for the purpose of lifting or lowering loads, or exerting a force, under the control of a trained operator.

The equipment is supplied completely assembled and ready for use. No service adjustments are necessary or possible during operation.

An internal safety relief valve (factory set) is fitted which limits the load that may be lifted to the equipment rated load + 10% maximum.

Keep hydraulic Jacks away from flames and direct heat.

Hydraulic Jacks must only be serviced by a qualified technician.

To protect your warranty, only use Hi-Force's hydraulic oil.

Immediately replace any worn or damaged parts using genuine Hi-Force parts only.

Hi-Force JCS & JCH Jacks are despatched from the factory pre-filled with oil, and are ready for use. They can be used, if installed correctly, in any position, for example sideways, upside down etc.

Available Models:

JCS Range:

MODEL NO.	CAPACITY TONNES	MATERIAL	STROKE MM	WEIGHT KG	DIMENSIONS IN MM				
					LENGTH	CLOSED HEIGHT	PISTON DIA.	MAX HANDLE HEIGHT	WIDTH
JCS10	10	Steel	35	4.5	240	76	38	266	60
JCS20	20	Aluminium	41	5.5	257	102	51	281	101.5
JCS30	30	Aluminium	45	8.0	281	112	60	285	125

JCH Range:

MODEL NO.	CAPACITY TONNES	MATERIAL	STROKE MM	WEIGHT KG	DIMENSIONS IN MM					
					LENGTH	CLOSED HEIGHT	PISTON DIA.	MAX HANDLE HEIGHT	CENTRE HOLE	WIDTH
JCH13	13	Aluminium	41	5.5	257	95	51	281	25	102
JCH21	21	Aluminium	45	8	281	114	60	285	35	125

General Description:

The JCS jack has a solid piston and a spring to retract the piston. The JCH jack has a hollow piston to allow tensioning and pulling of studs etc, and the piston must be pushed back manually or by the load. Either style jack can be used, in any position,

Hi-Force Limited – Prospect Way – Daventry – Northants NN11 8PL – United Kingdom

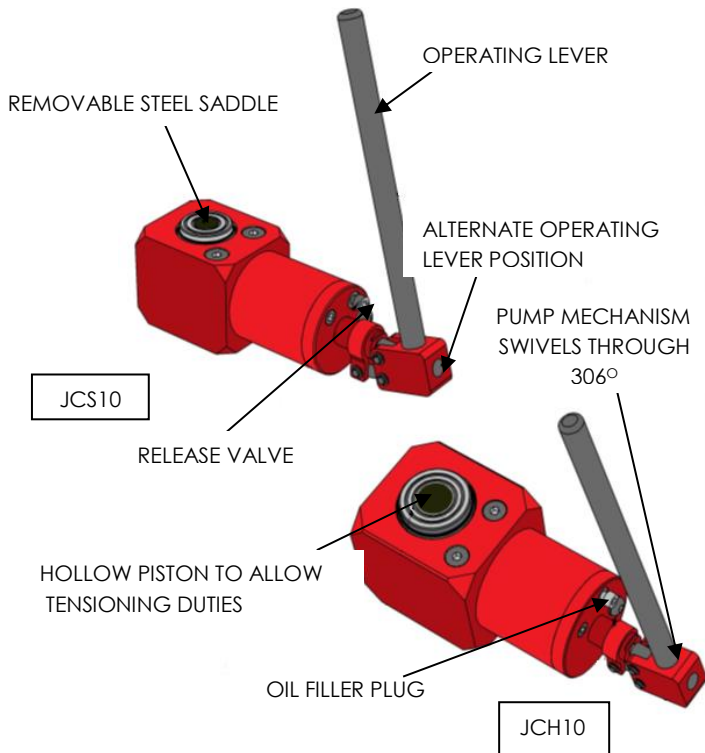
Tel: +44(0) 1327 301000: Fax: +44(0) 1327 706555: Website: www.hi-force.com

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for example sideways, upside down etc.



There are two safety devices fitted as follows:

- Pressure relief valve to prevent overloading
- Steel stop ring to limit maximum stroke

TO LIFT OR PUSH LOAD

Using the key on the end of the operating lever, turn release valve screw clockwise to close. Do not use excessive force.

Put operating lever into either socket on the pump mechanism, rotate to a comfortable position and operate pump. The piston will rise and lift load. When the piston reaches full stroke the stop ring prevents the piston from rising further.

TO LOWER LOAD

Using key on operating lever, turn release valve screw anti-clockwise to open. Opening release valve SLOWLY will control rate of lowering. DO NOT overload jack during lowering. The JCS jacks are fitted with a return spring, the piston will retract even under no load. JCH jacks need to be pushed back either by the load, or by hand. Do not stand on the jack when working in restricted spaces or at heights.

CARE AND STORAGE

Whenever possible wipe piston clean before lowering. When the jack is not in use, store with the piston retracted in a clean dry environment.



SAFETY WARNINGS!

- ALWAYS raise the piston to the load.
- DO NOT drop loads onto the Jack.
- ALWAYS support the base of the Jack when in use.
- NEVER go under load when only the Jack supports it.
- DO NOT attempt to lift a load greater than the capacity of the Jack.
- Provide solid and flat foundation for the jack to operate from.
- Make sure that there is sufficient spare lifting capacity and stroke when selecting Jack/s for any application.
- Check the Jack load rating before use.
- Avoid off-centre loading.

Before using any hydraulic equipment, read the operating instructions carefully and check that they are fully understood.

Service & Maintenance:

Only genuine Hi-Force spare parts should be used in the repair or servicing of these units.

We recommend that any servicing or repair of this equipment is only carried out by an authorised Hi-Force repair centre.

See www.hi-force.com for more information

For full and comprehensive details on this piece of equipment and all of the Hi-Force range of lifting and jacking equipment please go to:

www.hi-force.com

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