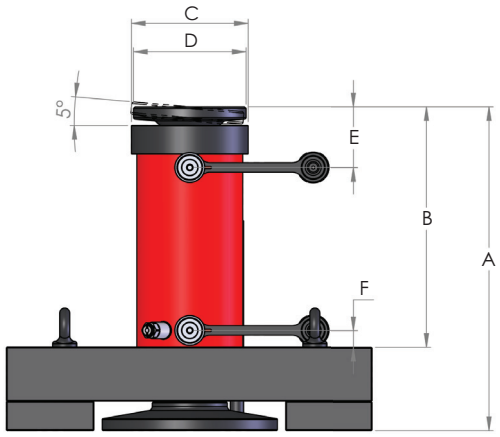
HCJ | CLIMBING JACKS

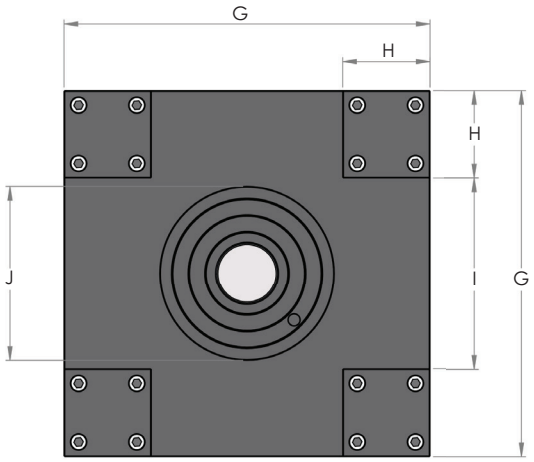
Capacities from 50 to 203 tonnes

Incremental lifting heights up to 152 mm

Working pressure 700 bar

- Provides a simple and highly effective solution for lifting, lowering and positioning large heavy loads, especially in locations where space is limited
- Incorporates an inverted HDA double-acting hydraulic cylinder which offers higher work output with improved performance and efficiency
- Tilting saddle fitted as standard minimises the risk of side loading
- Compact, robust steel base plate with an anti-rotation device that ensures maximum safety and stability during operation
- Base plate is coated with a high-performance fluoropolymer coating for increased wear and corrosion resistance
- Designed for use with cribbing blocks, owing for fast and safe incremental lifting, or lowering of heavy loads and structures (See Note 1)
- Compatible with the Hi-Force powered pumps (see pages 39 to 43) or with SLF and SLV synchronous lift systems for computer-controlled, synchronised lifting operations (see pages 44 to 52)
- Customised and special design climbing jacks are available upon request





Model number	Capacity (tonnes)	Stroke (mm)	Oil capacity (litres)	Cylinder eff. area (cm^2)	Weight (kg)	Dimensions (mm)									
						A	B	C	D	E	F	G	H	I	J
HCJ506	50	152	1.08	71.3	144	394	289	140	135	73	20	440	105	230	210
HCJ1006	109	152	2.33	153.3	222	438	303	198	135	87	20	455	105	245	235
HCJ1506	152	152	3.26	214.2	337	460	310	223	135	94	20	550	120	310	285
HCJ2006	203	152	4.33	285.2	410	482	317	267	135	102	20	550	120	310	305

Note: 1) Cribbing blocks are not supplied by Hi-Force. Please ensure that suitable cribbing blocks are used for the application.
2) If specifying this climbing jack for use with the SLF and SLV synchronous lifting systems and associated mounting kit, please consider the increase in dimension A (closed height), see pages 46 and 50.

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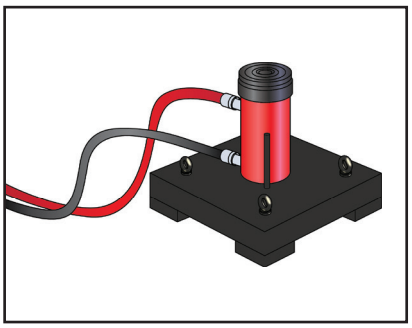
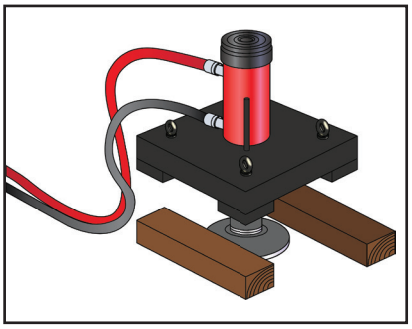
PROCEDURE FOR RAISING OR LOWERING A LOAD USING THE HI-FORCE HCJ CLIMBING JACKS

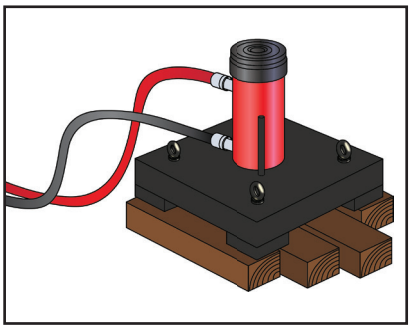
Stage 1: Position the HCJ climbing jack below the load with the piston fully retracted. Ensure the ground is level and stable and capable of supporting the load.



Stage 2: Graduy extend the piston to lift the load. Once sufficient clearance is achieved, insert the outer support blocks under the jack's base plate.

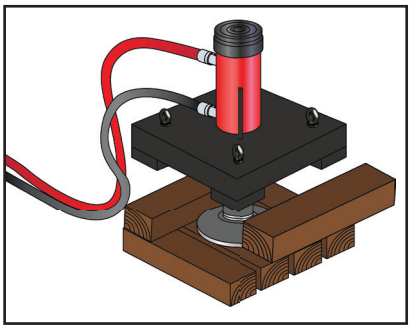


Stage 3: Retract the piston to ow placement of the inner blocks, which will support the piston plate for the next lifting stage.



Stage 4: Extend the piston again to raise the load further. Insert a new layer of blocks, positioned at 90° to the previous layer, under the base plate.

Retract the piston and continue alternating the block positions and piston strokes until the desired lift height is achieved.



If the application involves lowering a load, reverse the above process by removing blocks one layer at a time. Ensure the load is always securely supported before retracting the piston further. Continue until the load is safely lowered to its final position.