

**CLIMBING JACKS
(300 - 600 TON)**

**THE WORLD... OUR PASSION
SINCE 1955**

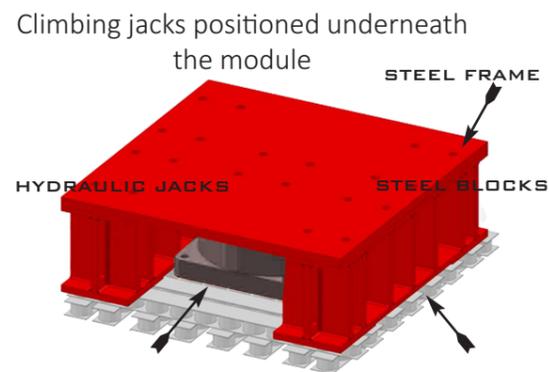
TECHNICAL BROCHURE

THE SYSTEM

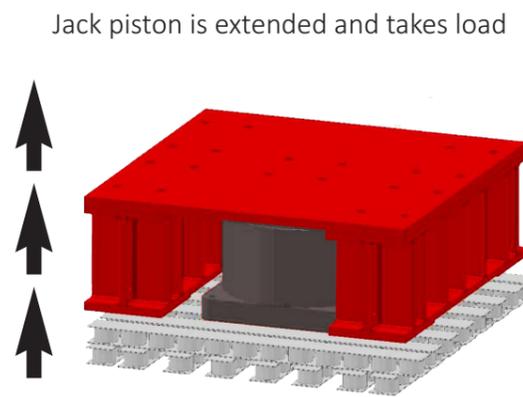
The Climbing Jacks System is based on heavy duty double acting hydraulic jacks. The system allows the lifting or lowering of loads over long distances in stages determined by the stroke of jacks. The system is powered by a power pack unit that is dimensioned to simultaneously feed the number of jacks in the system. By leverages on the console the operator can pressurize any jack singularly. The pressure of the hydraulic oil in each feeding hose is shown on gauges on the console. This gives the possibility to the operator to calibrate the lift acting on the different cylinders. The pressure can be easily converted in weight. Each jack is able to push and pull and is assembled in a steel frame and connected to it by screw jacks on the top plate. The jack can freely extend inside the structure. By supporting the structure with cribbin material its outside the jack can lift itself in the close position and be ready for the next step of lifting. The lifting sequence is explained below.

Power Description	Climbing Jack 300t	Climbing Jack 600t
Quantity available	4	12
Cylinder Capacity	300 t	600 t
Lifting / Lowering Capacity	8400 t	
Working Pressure	315 bar	
Design Temperature	-20°C / + 50°C	
Climbing Jack Minimum Height	537 mm	
Cylinder Stroke	120 mm	
Power Pack Unit (PPU)	Electric	
Climbing Jack Frame + Cylinder Weight	1112 kg	2475 kg
Max Jack up Elevation	3 m	

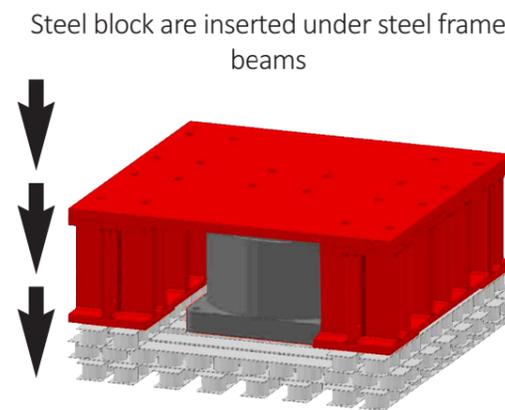
PHASE 1



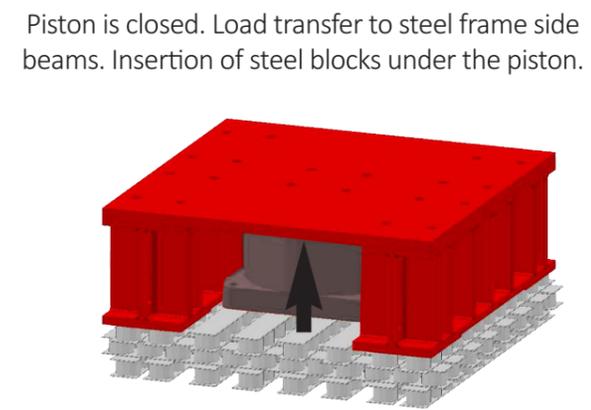
PHASE 2



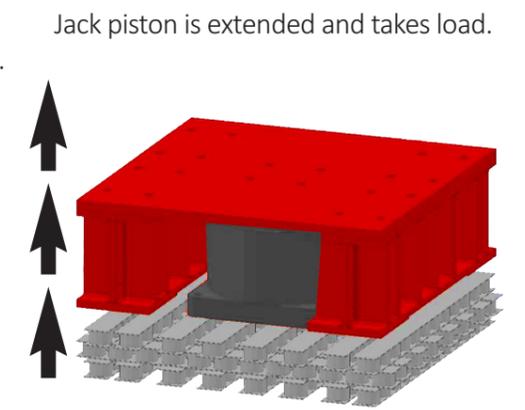
PHASE 3



PHASE 4

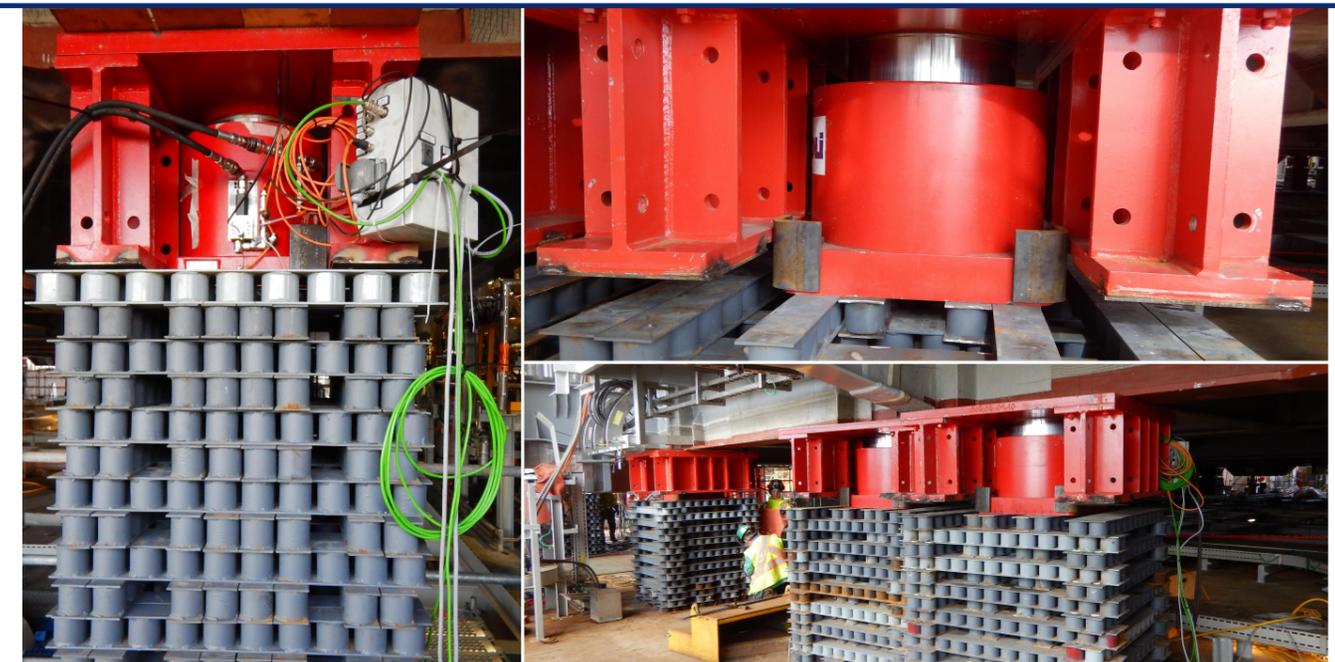


PHASE 5



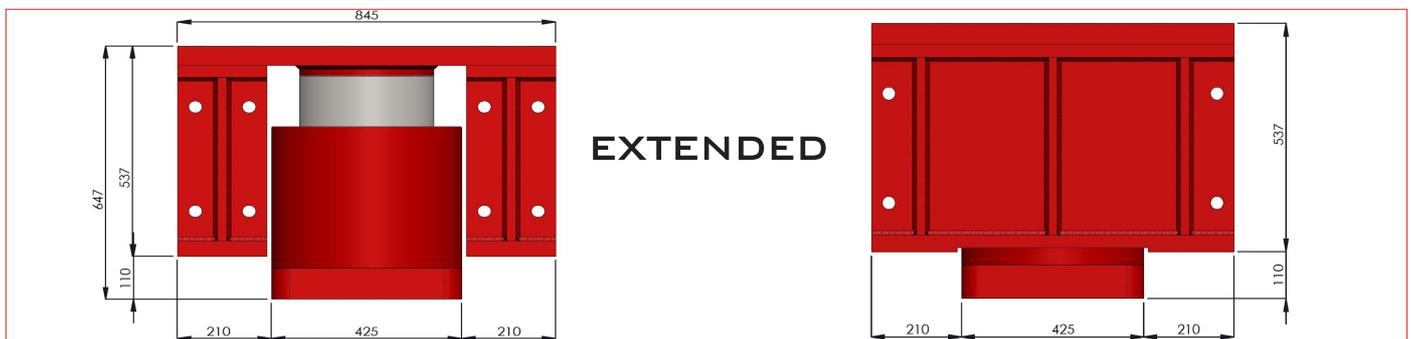
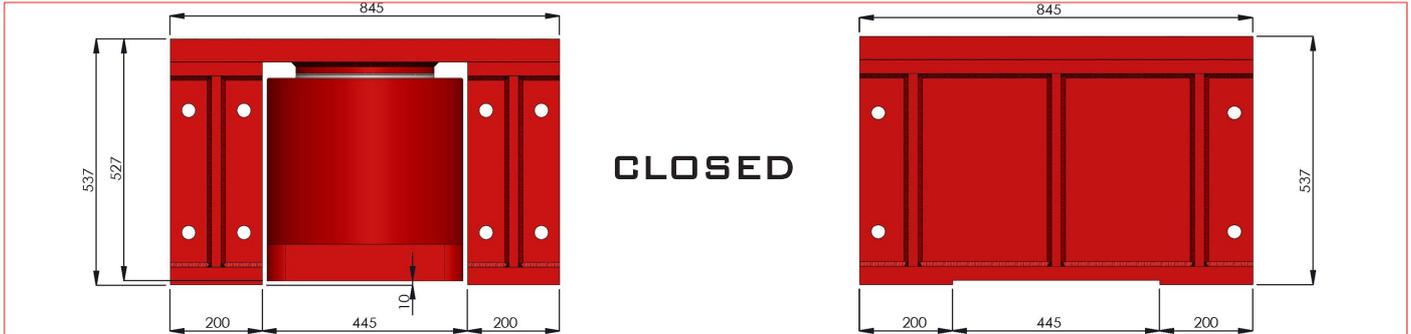
OPERATING THE SYSTEM

The climbing jacks system is versatile and can be arranged to fit the module structure. The Remote Control System is able to control simultaneously up to 20 Climbing Jacks at the same time. The System measures stroke and load, checking that the expected load on each jack will remain the same during the lifting. Also the software check continuously the stroke, equalizing it during the lifting and keeping the lifted surface at same elevation, avoiding deformation. During the operation the operator can check the load and the stroke of each cylinder. The Cylinder Accuracy is $\pm 3\%$. Jacking Layer under Climbing Jack Frame (CJF) made by steel blocks is easily handled by operator / riggers (with a maximum weight of 20 kg for each steel).



CAPACITY AND DIMENSIONS

CLIMBING JACKS 300 TON CAPACITY



CLIMBING JACKS 600 TON CAPACITY

