

200 TONNE CASING EXTRACTOR



HYDCO CASING/PILING JACK
200 TONNE LIFTING FORCE
47 TONNE CLAMPING FORCE



HYDCO Engineering Pvt. Ltd.

The HYDCO 1180/880 Casing Extractor with the combination of 2 x 250mm lift cylinders, has the capability of lifting 200 Tonne load with a 1200mm cycle stroke. The design of the clamping system ensures a 47 Tonne positive grip on the casing before the lifting operation takes place. As added insurance, an in built electronic control system will not allow the lifting to commence with out the required clamp pressure.

The HYDCO 1180/880 CE has proven itself as a reliable workhorse in the construction industry providing quick changeover to the various casing sizes by simply inserting reducing jaws. Jaws are available in many sizes

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TECHNICAL DATA : 200 TONNE CASING EXTRACTOR / PILING PULLER**1. LIFTING CAPACITY 200 TONS**

Two cylinders, 250mm in bore diameter each, combine to achieve the lifting force. The effective stroke length is 1200mm.

2. CLAMPING FORCE 47 TONS

The clamping system is designed to ensure a positive grip on the casing before the lifting operations can take place. A hydraulic accumulator in combination with the load holding pilot check valve accommodates for any minor leakage in the hydraulic system during the clamping operation.

The electronic control system will not allow the lifting operation to commence without the required clamp pressure. There are override functions to allow for positional adjustments of the lift cylinders if clamp pressure is not adequate.

An additional safety feature of the control system will not allow the operator to release the clamp using the joystick alone, the clamp release override button on the control pendant must be engaged to release the clamp.

3. CLAMP SIZES 1180MM AND 880MM

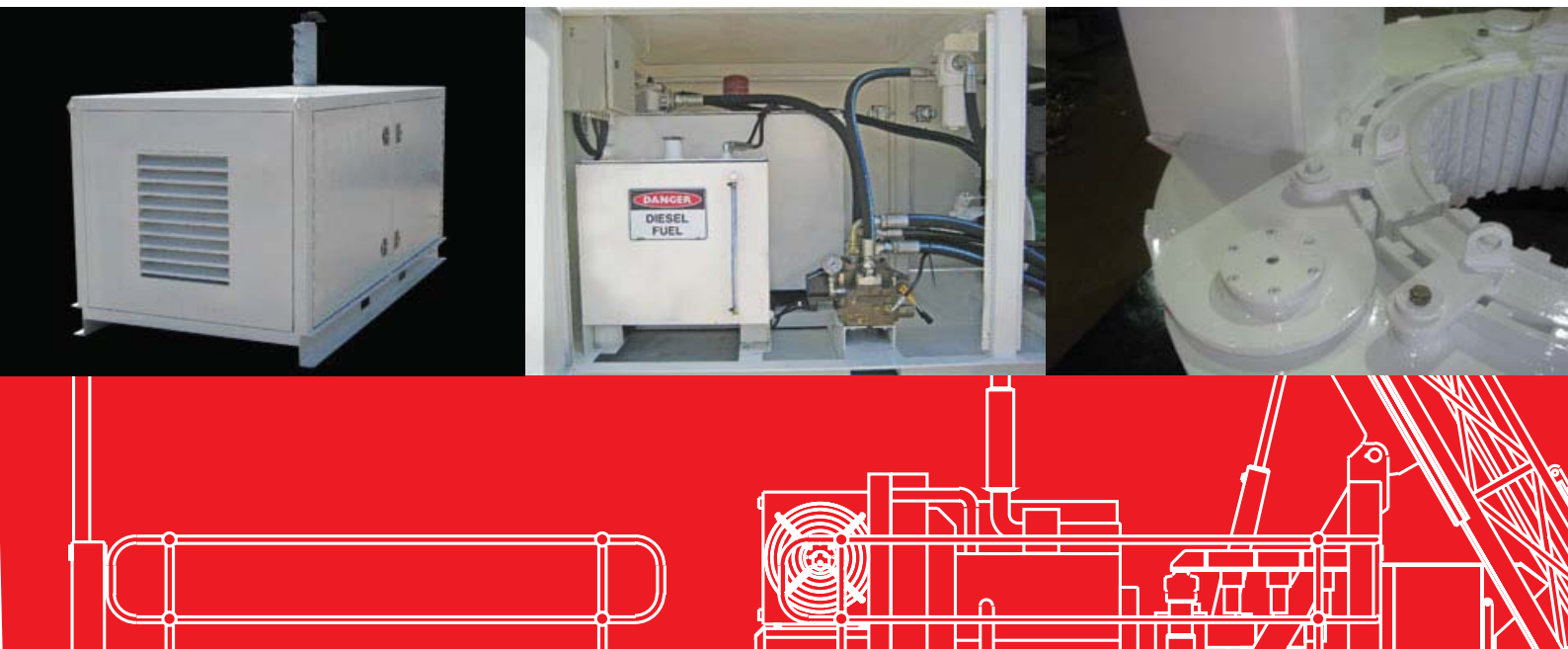
The HYDCO 1180/880 CE can be used for 2 casing sizes, 1180mm and 880mm with the option for other sizes. To grip 880mm casing, easy drop in reducer jaws are fitted, located and locked into place.

The conversion between sizes takes only minutes

4. CLAMPING JAW CONSTRUCTION

The clamp jaws are made from roll formed steel sections. The jaw design incorporates a three-piece hinge system for maximum contact around the casing diameter, all pins are hardened and ground for maximum strength and minimal deflection.

The jaw grips are hard faced steel ribs, designed to grip but not damage the casing.



5. STANDARD HYDRAULIC SYSTEM

PUMP	71cc variable displacement load sensed, pressure compensated and horsepower controlled
HYDRAULIC TANK	400lt
CONTROL VALVE	Danfoss PVG 120 – 2 Load sensed, pressure compensated Lift function electro-proportional Clamp function electro on-off
FILTRATION	10um Hydac pressure filter 25um Hydac return filter
HOSES	Quality Gates hoses

6. STANDARD ENGINE PACK

ENGINE	John Deere 75hp diesel 4.5 lt naturally aspirated
DIESEL TANK	160lt
COOLING	Conventional fluid radiator
EXHAUST	Vertical exhaust with rain cap and exhaust nappy
EMERGENCY STOPS	Two emergency stops in total. One on the engine control console and one on the operator's control pendant

7. POWERPACK ENCLOSURE

CONSTRUCTION	Fully welded frame Louvered ends for ventilation 4 side entry doors and removable roof panels
LIFTING POINTS	Four point lift for crane hoisting and cut outs for forklift tongs.
TOTALLY LOCKABLE	Flush mount twist handle locks on each door



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