

HYDRAULIC HAMMER



The Hydraulic Hammer allows a much greater degree of control and reliability by regulating energy output and by the incorporation of safety and monitoring devices. The electronic control system measures the net energy applied to the pile blow by blow and allows the force to be accurately computed.

The Hydraulic Hammer is suitable for both driving and extracting piles.

The weight of the Hydraulic Hammer and its fuel consumption are relatively small in comparison with the energy that it generates.

- The hammer can be operated at any angle
- Optional printed report of the piling operation is available
- Can be used onshore, offshore, on the surface or submerged
- The S90 hammer will pass through a standard 37^{1/2}" rotary table
- All relevant components have been tested for piling at depths up to 2000m

S90 Hydraulic Specifications:

	Metric	Standard
Max. energy/blow	66kips	66,400 ft.-lbs.
Min. energy/blow	5kips	3,700 ft.-lbs.
Blow rate	50bl/min	50lbs/min.
Ram weight	4.5 ton	9,920 lbs.
Hammer weigh	9.7 ton	21,270 lbs.
Hammer length	7880mm	310 1/4 in.
Operating pressure	280bar(4000psi)	4,100 psi
Oil Flow	250 l/min	66 US gal/min.

S150 Hydraulic Specifications:

	Metric	Standard
Max. energy/blow	110kips	110,600 ft.-lbs.
Min. energy/blow	6kips	4,400 ft.-lbs.
Blow rate	44bl/min	44 lb/min.
Ram weight	7.5 ton	16,530 lbs.
Hammer weight	15.4 ton	33,880 lbs.
Hammer length	8460mm	333 in.
Operating pressure	230bar(4000psi)	3,300 psi
Oil flow	410 l/min	108.3 US gal/min.

ZONE II

Frank's hydraulic hammers are powered by our Zone II power unit which are fully certified to EEMUA Publication N° 107 (formerly OCMA specification N° MEC-1) and all other applicable safety regulations. Unit overheating, a problem typically experienced by other operators is solved through the use of a Ford 272ZE, naturally aspirated, 4-cylinder watercooled diesel engine.

RELIABILITY

Frank's has taken the S-90 hydraulic hammer into a new area of reliability. Previously, companies using the S-90 hammer suffered problems with electrical sensors breaking down - a problem caused by poor manufacture of the sensor itself and installation technique. Frank's has manufactured an improved sensor assembly and has developed a test rig to check both serviceability and calibration of these units. All of these improvements are carried out in-house, which ensures full control over every stage of the operation. All such processes are fully documented.

WIRING IMPROVEMENTS

To ensure complete electrical reliability, original internal wiring has been replaced by aircraft grade wiring to withstand the vibration of the hammer. The umbilical cables have been modified to provide significantly improved resistance to bending and pulling loads. Vital internal components such as accumulators, valves and sensors are easily accessible to facilitate field maintenance and improve reliability.

Personnel

All Frank's Hammer engineers receive regular training on our own test pile and have received intensive training by the hydraulic hammer manufacturers. In addition, we regularly conduct our own fault-finding training sessions.

Testing

All equipment is rigorously tested on our test pile prior to dispatch in accordance with our "equipment check out procedures" which are detailed in our QA system.



For more information call 1 -800-833-7265 or e-mail info@frankscasing.com
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