

Allied's
Boom-Mounted
Hydraulic
Impact
Hammer

HY-RAM[®]



The Model 88 AF Hy-Ram®... producing 637,000 foot pounds of impact energy per minute.

The concept of the high performance boom-mounted impact hammer was pioneered by Allied Steel & Tractor Products, Inc. Allied, who continues to lead the industry, has combined performance, efficiency, and reliability in their boom-mounted Hy-Ram impact hammers to offer several design advantages over other hammer manufacturers. One of the Allied boom-mounted hammers – the Model 88 AF – has been specially designed for use by the United States Air Force.

Manufactured to rigid precision tolerances, the Model 88 AF is selected from the top flow tolerance with a corresponding frequency of 490 blows per minute. It has a flow requirement of 24 g.p.m. which is well within the range of all excavators. The Model 88 AF operates off your machine's hydraulic system which eliminates the need for an air compressor and the loud air exhaust.

The Model 88 AF Hy-Ram is a 1300 ft. lb. impact energy class hammer that can handle most breaking jobs. It productively breaks reinforced concrete, concrete footers, foundations, medium to hard rock, and large boulders. It can be used for secondary breaking at mines and quarries and for many industrial applications.

The long-stroke design of the Model 88 AF translates into less recoil to the boom without additional shock absorbing parts. Recoil, if not reduced, can damage the boom and structural components. All Allied Hy-Ram's feature an electric shutoff which results in better operator control and faster production because the hammer is turned on or off by the operator. Many other competitive hydraulic hammers have an automatic shutoff device that makes initial positioning of the tool point and point extraction difficult. The Allied Hy-Ram's electric shutoff, relative to open-center systems, also helps in preventing excessive hydraulic heat and allows full hydraulic flow to operate boom functions while the hammer is shut off.

The Model 88 AF offers advanced features not found in other competitive models. It has only two moving parts and no snap rings or cast iron piston rings. The design incorporates twin accumulators that dampen both pressure line and return line pulsations which protects your machine's hydraulic system. For more information, contact the Allied Steel & Tractor Products, Inc. factory.

SPECIFICATIONS:

Impact Energy Class	1300 ft. lbs. / 1760 n.m.
Frequency	490 blows / min.
Total Energy	637,000 ft. lbs. / min. 864,000 n.m. / min.
Hydraulic Flow Required	24 g.p.m. / 91 l.p.m.
Operating Pressure	2200 p.s.i. / 155 kg. / cm ²
Weight	1600 lbs. / 726 kg.
Overall Length	84 in. / 213 cm.
Spacing Inside Mounting Bracket	Varies With Machine
Boom Pin Diameter	Varies With Machine
Standard Demolition Tool	Cross Cut Chisel
Diameter	4 in. / 100 mm.
Working Length	20 in. / 51 cm.
Weight	100 lbs. / 45 kg.
Quick-Change Tool Feature	Standard
Hydraulic Quick-Disconnect Couplings	Standard
Top-Mounting Bracket	Standard

ACCESSORIES:

Adapter Brackets
Demolition Tools – Cross-Cut Chisel, In-Line Chisel, Moil Point, Blunt. (For special tools, contact the factory.)
Assembly Stand



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SPECIFICATION COMPARISON

	weight	ft. lbs. / min.	ft. lbs.	b.p.m.	p.s.i.	g.p.m.	efficiency %
Minimum Requirements	1100	625,000	1000				
Model 88 AF Hy-Ram	1600	637,000	1300	490	2200	24	63
Competitive Hammer ¹ (max.)	1690	575,000 ²	1150 ⁴	500	2300	50 ³	26

¹ Features short stroke, high reaction force design.

² Does not meet minimum requirements.

³ Flow required is too high for most excavators.

⁴ Increasing energy per blow to meet minimum requirements will increase internal stress affecting both structural integrity and wear life.