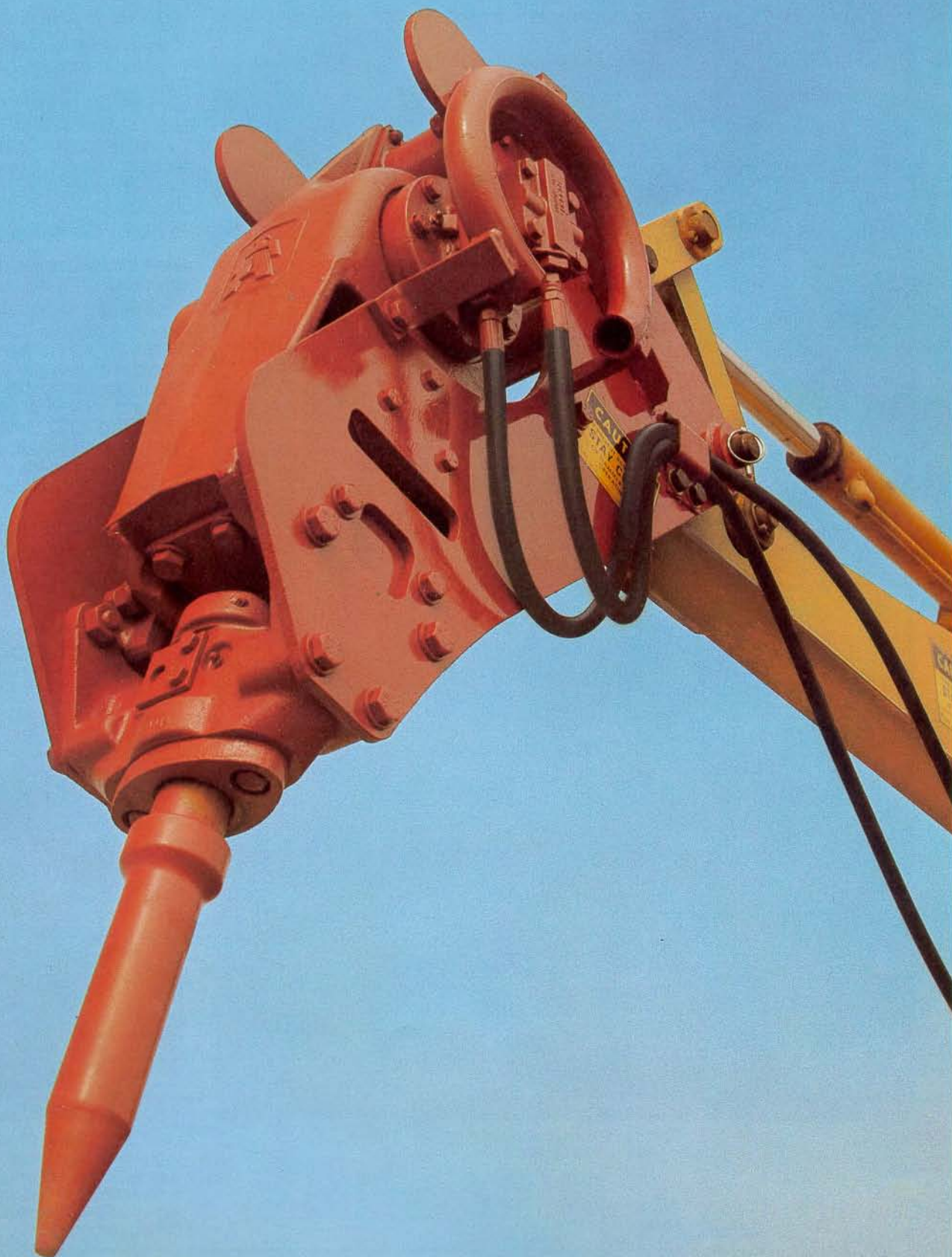
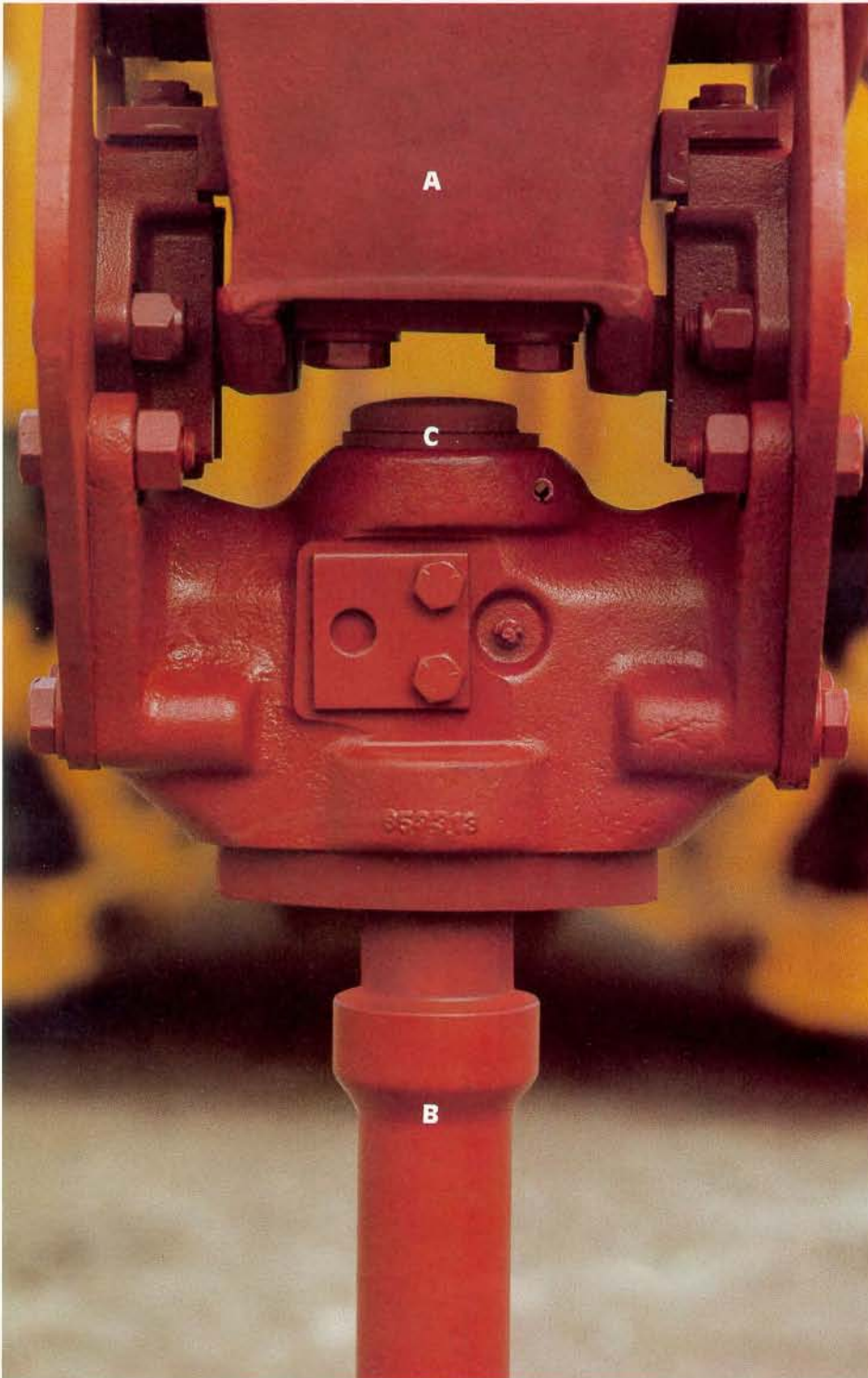


Allied's
rotary hydraulic
impact hammer

RAPID-RAM[®]



The Model 33 Rapid-Ram® rotary hydraulic impact hammer



A design as simple as A B C

Here's the world's first "rotary" hydraulic impact hammer! Rapid-Ram's patented design is simple and ingenious. The internally-driven piston and its companion cylinder have been eliminated. Instead, rotary hydraulic power is converted into linear impact energy through the Rapid-Ram's unique design.

Here's how the Rapid-Ram® operates

The Rapid-Ram's hammer housing (A) oscillates eccentrically. When down-pressure is applied to the hammer, the externally-mounted demolition tool (B) moves upward. The top of the tool (C) is impacted 1250 times a minute by the hammer housing.

The Rapid-Ram offers extraordinary performance and advanced design in a hammer that is priced for the smaller contractor and municipality.



With an oil flow of just 11 g.p.m., this highly efficient hydraulic system produces 200 ft. lbs. of impact energy at a frequency of 1250 blows per minute which translates into power to break, tamp, and drive.

The Model 33 Rapid-Ram® turns your backhoe / loader into a demolition powerhouse

Allied's field-proven, lightweight Rapid-Ram is pound-for-pound and dollar-for-dollar, the most productive and versatile "utility" hammer in construction. It is designed for

lighter breaking applications where our heavier-hitting Hy-Rams and Ho-Rams aren't required. We call the Rapid-Ram a "utility" breaker because it is designed for

lighter duty work like breaking 2 inch to 6-inch concrete. It does the work of several workers with 80 pound hand-held breakers.

The best warranty in the business

Allied stands behind the Rapid-Ram with a liberal 6 month limited warranty. There are more than 120 Distributors in North America to service you.

Continuous operation

Because of its patented rotary design, the Rapid-Ram can be operated continuously while several makes of hammers recom-

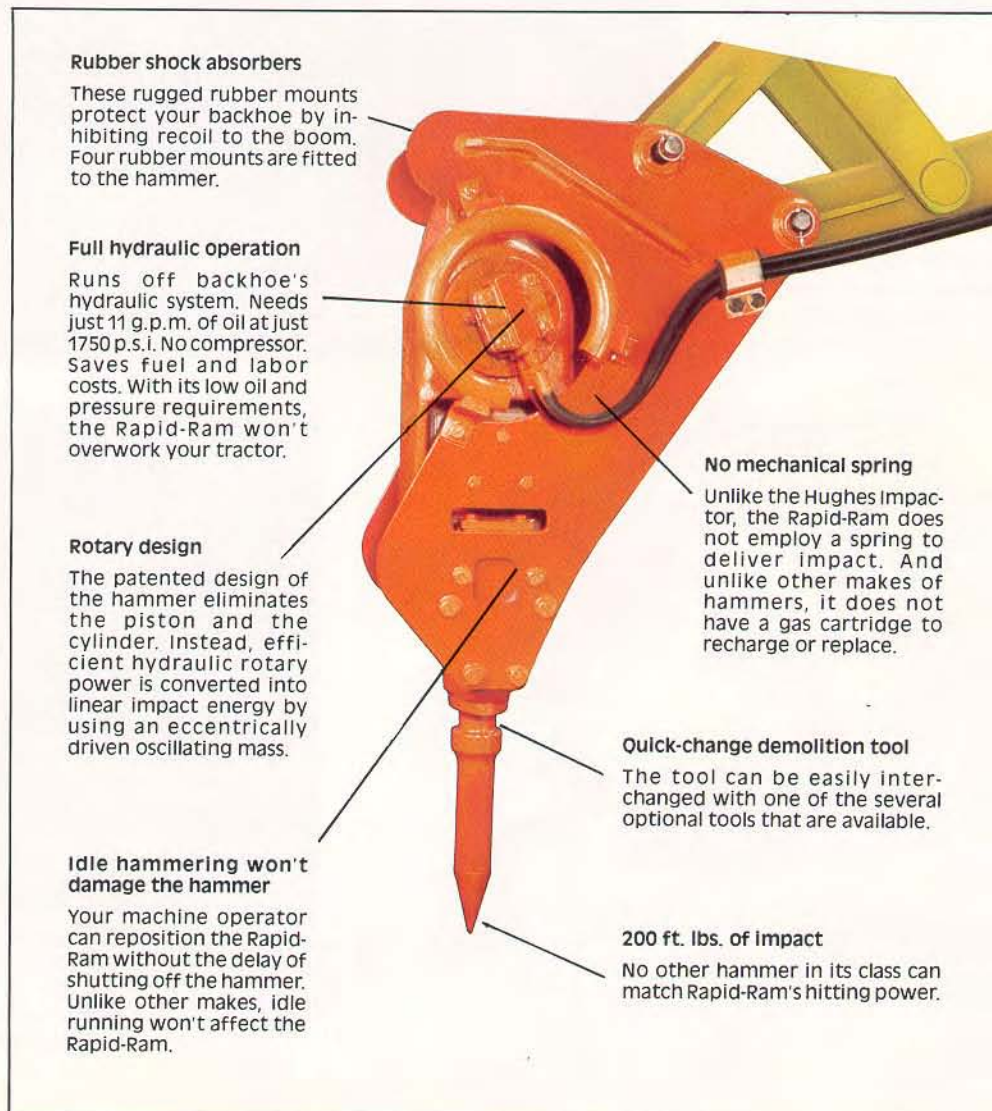
mend operation in 30-second bursts only.

More efficient than pneumatic hammers

Compared to pneumatic hammers, hydraulic hammers offer more efficient utilization of energy. The Rapid-Ram runs off your tractor's hydraulic system. And because there's no air compressor, fuel costs and labor are lower.

Low oil requirements

The hammer needs just 11 g.p.m. of oil for operation compared to 25 g.p.m. required for other makes. This low g.p.m. requirement permits simultaneous operation of both the hammer and positioning functions of your backhoe. The ratio of oil flow to impact energy for the Rapid-Ram makes it one of the most efficient hydraulic tools in construction.

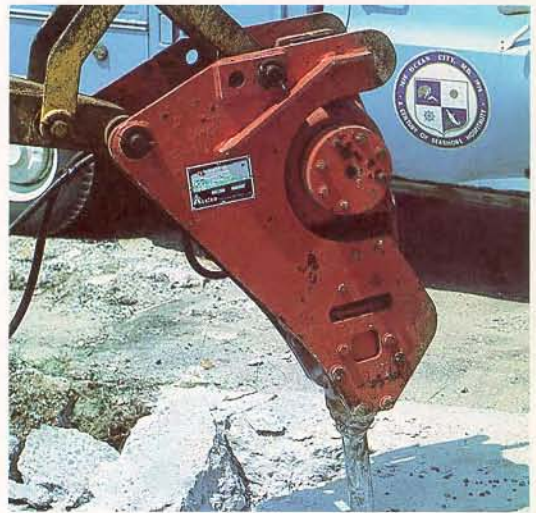
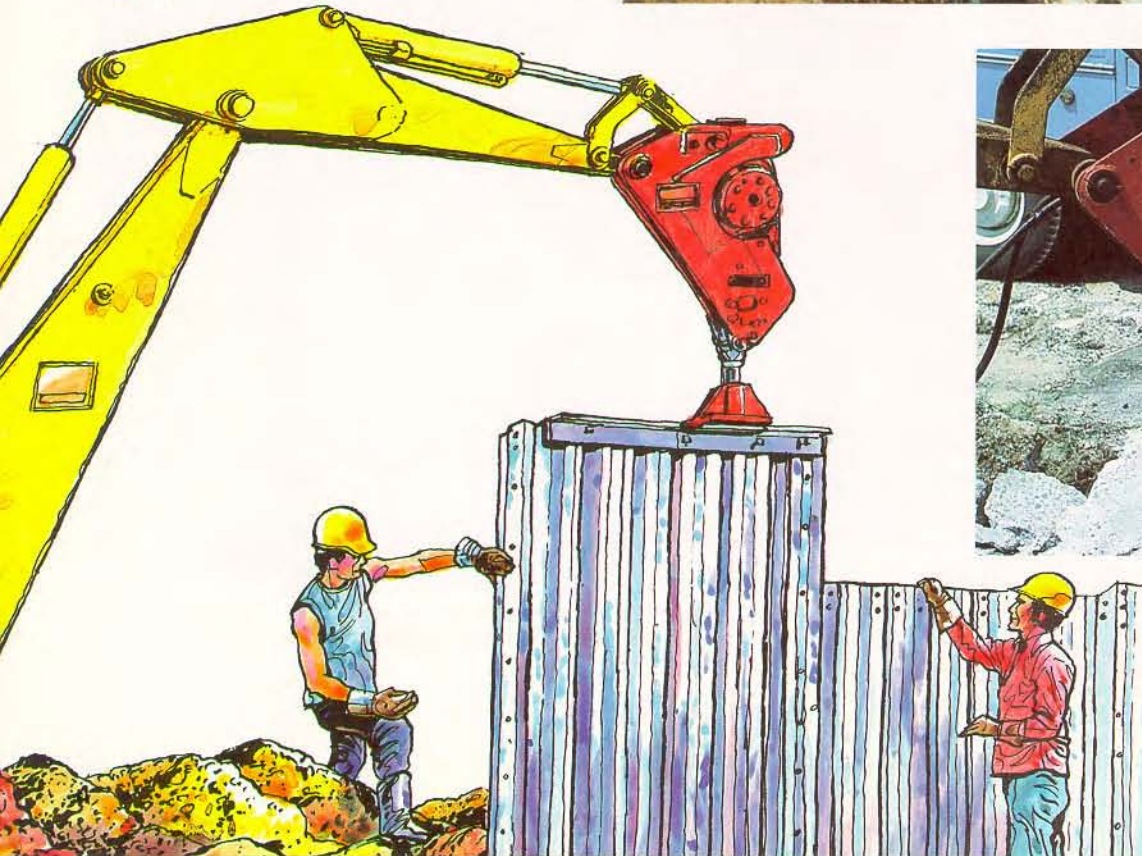


The Rapid-Ram can make short work out of concrete breaking of light to medium-hard materials with its impressive 200 ft. lbs. of blow energy and its rapid 1250 blows per minute.



Rapid-Ram is an ideal hammer for clean-up operations where its mobility and performance make the job go faster and more economically compared to workers using hand-held pavement breakers and their companion air compressor.

With its optional Tamer Tool, the Rapid-Ram productively drives wood, steel and aluminum sheeting, retaining walls and sea walls.



Rapid-Ram is ideal for handling the types of varied jobs required of municipalities and the smaller contractor.



The lightweight Rapid-Ram, with its low 11 g.p.m. oil flow requirements, is well-suited for smaller backhoe / loaders.



The Rapid-Ram operates in any position. Lightweight and as mobile as the backhoe, it reaches out to break light to medium-hard materials.

Mounted on this popular skid-steer loader, the Rapid-Ram turns the machine into a demolition powerhouse.



The versatile Rapid-Ram handles dozens of demolition jobs more economically than workers with hand-held air breakers and the necessary compressor.



Our Rapid-Ram® and your machine A perfect match



Allied-Engineered Installation Kits.

A hydraulic hammer, regardless of manufacturer, requires an installation kit in order to be mounted on the backhoe/loader or similar carrier. Some manufacturers require that the installing distributor be responsible for the design of the kit, but at Allied the design of the Installation Kit is not left to chance.

In fact, Allied offers over 400 different installation kits to fit virtually every make and model carrier suitable for the hammer. These kits include the necessary hydraulic fittings, hoses, valves, hardware and

instructions necessary to mount a Rapid-Ram on your particular machine. Allied Installation Kits permit simultaneous operation of both the hammer and positioning functions of your machine.

In addition, the Installation Kit, with most machines, permits operation of an Allied Model 8700C Ho-Pac vibratory compactor / driver. If you should ever want to mount the Ho-Pac on your machine, you can without further modification. Check with your Allied Distributor for details.

Factory-Trained Distributors.

Allied has over 120 Distributors throughout the United States and Canada, and in other countries as well. Our Distributor network can furnish you with expert service by factory-trained mechanics and replacement parts when necessary.



The Model 33 Rapid-Ram[®] rotary hydraulic impact hammer



Allied offers a great lineup of accessories to make your Rapid-Ram that much more versatile and productive.

A. The Tamper Tool turns the Rapid-Ram into a great soil tamper, especially in clay, and handles driving of sheeting as well.

B. Chisel Point Demolition Tool is available with the in-line or cross-cut points.

C. Conical Point Demolition Tool.

D. Asphalt cutting jobs are handled quickly when the Rapid-Ram is fitted with the optional Asphalt Cutter.

Typical hammer applications include:

- Pavement & Concrete Breaking
- Trench Rock Demolition
- Catch-Basin Removal
- Bridge-Deck Demolition
- Finishing Work
- Curb & Gutter Breaking
- Trench Compaction – With The Optional Tamper Tool
- Retaining Wall Demolition
- Driving Wood, Steel And Aluminum Sheeting And Retaining Walls – With The Optional Tamper Tool
- Breaking Up Frozen Coal In Railroad Cars
- Asphalt Cutting – With The Optional Asphalt Cutter Tool

Typical Rapid-Ram users:

- Sewer / Water / Utility contractors
- Excavating contractors
- Public works – Municipalities, Counties, State agencies and military bases.
- Industrial maintenance
- Gas, Electric & Telephone companies

SPECIFICATIONS:

Impact Energy Class	200 ft. lbs. / 270 n.m.
Frequency	1250 blows / min.
Hydraulic Flow Required	11 g.p.m. / 42 l.p.m.
Operating Pressure	1750 p.s.i. / 123 kg./cm ²
Weight With Standard Bracket	700 lbs. / 318 kg.
Weight With Optional Side-Angle Positioner Bracket	N/A
Overall Length	54 in. / 137 cm.
Spacing Inside Mounting Bracket	10-1/4 in. / 260 mm.
Boom Pin Diameter	1-1/2 in. / 38.1 mm.
Standard Demolition Tool	Conical Point
Diameter	2-1/2 in. / 63 mm.
Working Length	14 in. / 36 cm.
Quick-Change Tool Feature	Standard

Accessories:

- Demolition Tools – Cross-Cut Chisel, In-Line Chisel, Conical Point. (For special tools, contact the factory.)
- Tamper Tool
- Asphalt Cutter
- Frost-Cutter
- Assembly Stand
- Adapter Brackets





STEEL & TRACTOR PRODUCTS, INC.
5800 HARPER ROAD, SOLON, OHIO 44139
(216) 248-2600/Cable: ALTRAC/Telex 980192

