



Scaling Hammers | PH-S Series

Hydraulic Hammers for Underground Mine Scaling Application

Mount on Backhoes or Specialized Scaling Machines

Equipped with Heavy-Duty Enclosed Bracket with Dust Protection and Optional Dust Suppression

3-Year Limited Warranty

Comprehensive Dealer Network Providing Sales, Parts and Service, and Backed by the Industry's Best Support!



NPK ATTACHMENTS DESIGNED, BUILT & BACKED BY NPK

Built to withstand the harsh scaling application environment, the PH-S series models consist of the bare hammer assembly of NPK's proven PH Hydraulic Hammers, protected inside a heavy-duty enclosed bracket and equipped with dust protection and optional water ready kit for dust suppression.

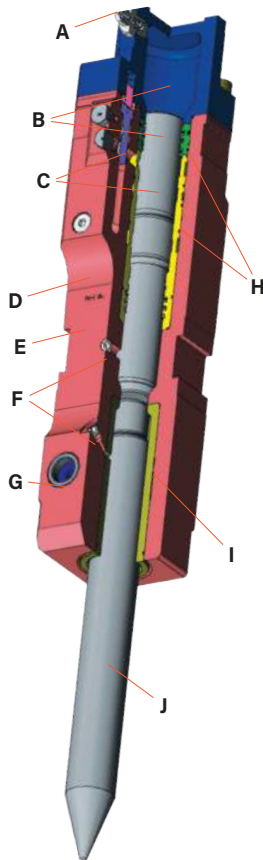
SPECIFICATIONS

NPK Model	Impact Energy Class* (ft lb)	Recommended Carrier Weight (lb-metric tons)	Impact Frequency (bpm)	Oil Flow (gpm-lpm)	Operating Pressure (psi-bar)	Working Weight ** (lb-kg)	Tool Diameter (in-mm)	(Long FX Chisel) Tool Working Length (in-mm)
PH2-S	500 ft lb	6,000 - 11,000 lb 2.7 - 5 metric tons	500 - 1,200 bpm	7 - 16 gpm 25 - 60 lpm	2,465 psi 170 bar	660 lb 300 kg	2.6 in 66 mm	23.6 in 600 mm
PH3-S	750 ft lb	8,000 - 16,000 lb 3.6 - 7.3 metric tons	500 - 1,150 bpm	12 - 26 gpm 45 - 100 lpm	2,465 psi 170 bar	1,040 lb 472 kg	3 in 76 mm	25 in 635 mm
PH4-S	1,300 ft lb	12,000 - 18,000 lb 5.5 - 8 metric tons	400 - 1,000 bpm	13 - 32 gpm 50 - 120 lpm	2,465 psi 170 bar	1,285 lb 583 kg	3.4 in 86 mm	27 in 686 mm

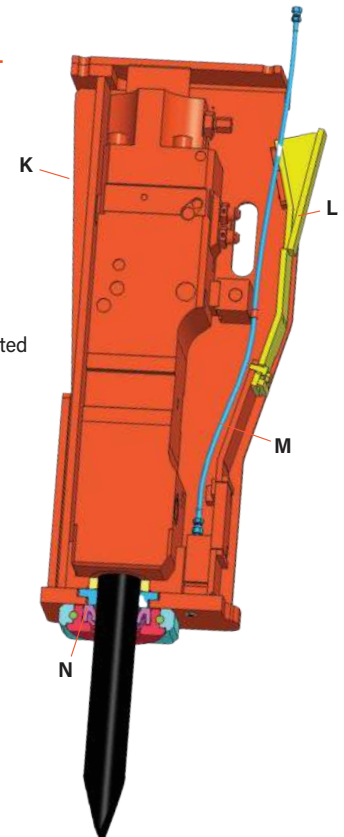
*Impact Energy Class is a marketing rating and does not relate to measured impact energy. **Working weight includes tool and mounting bracket. Weight may vary depending on bracket configurations. Specifications subject to change without notice.

PH-S SERIES FEATURES

- A. Gas charge valve
- B. Unique gas-charged piston maximizes hammer efficiency
- C. Simple, two-moving-parts design for reliability
- D. Anti-blank fire feature for long hammer life, with the ability to change to blank fire in the field if preferred, by simply switching 2 plugs
- E. One-piece hammer body without tie rods
- F. Ports for automatic bushing lubrication and air for underwater use
- G. Quick-change tool system with single round retainer pin
- H. Fully sleeved design allows for extended service life. More favorable cost of long term ownership
- I. Slip fit tool bushings for quick, easy replacement
- J. Variety of tool configurations available (Long FX Chisel recommended for Scaling Application)



- K. **HEAVY-DUTY ENCLOSED BRACKET**
 - Protects the main body of the hammer
 - Also reduces noise pollution
- L. **COVER PLATE**
 - Protects the whip hoses that supply the hydraulics to the hammer
- M. **WATER READY KIT FOR DUST SUPPRESSION (OPTIONAL)**
 - Water hose with spray nozzle is integrated into the bracket, providing wide spray angle for maximum coverage
 - Ready to be connected to water supply
 - Accessible for serviceability
- N. **DUST GUARD KIT INCLUDED FOR DUST PROTECTION**
 - 3 layers of chisel wipers built in at the bottom of the bracket protect the bare hammer internals and hydraulic system by preventing dust and debris from entering the lower chamber due to the application and environment



Each product sold by NPK is subject to an express written warranty. NPK makes no other warranty, express or implied, including any warranty of merchantability or fitness for any particular purpose. NPK is not liable for any incidental or consequential damages.



For more information on Hydraulic Hammers



NPK Construction Equipment, Inc.

7550 Independence Drive
Walton Hills, OH 44146-5541
Phone (440) 232-7900

npkce.com