

NPK

Hydraulic Hammers



Introducing the
all NEW PH-Series
Hydraulic
Hammers

- *Most Complete Line in the Industry*
- *Complete Hydraulic Kits Designed to fit Your Carrier*
- *Industry's Most Comprehensive Field Service Corps*
- *Extensive Parts Distribution System*
- *Network of Nearly 300 Distributor Outlets*

NPK ATTACHMENTS...designed, built and backed by NPK.

NPK

Durability, Productivity and Rebuildability



**More hammer choices
for skid steers, backhoes,
loaders, excavators and
mini-excavators**

Introducing the
all NEW PH-Series
Hydraulic
Hammers

For machines from the smallest, most nimble of carriers to the larger loader backhoe, NPK offers a choice of eight models, ranging from the GH-06 through the GH-7 with an impact energy class rating of **2,500 ft. lbs.**

With the introduction of the all new PH-Series Hydraulic Hammers, NPK maintains its commitment to incorporate the latest technological innovations in our entire product line. These new hammers come equipped with an "easy to switch" anti-blank firing system, lower weight providing better balance with your carrier and more simplified maintenance. In addition NPK's new range of sound proof brackets enclose the hammers in the most beneficial manner. Other advantages include a new valve system, slip fit tool bushing, larger retainer pin, and a side bolt-free casing.

All NPK hydraulic hammers are designed with a greater piston to sleeve bearing area and improved piston to seal lubrication, which allows for extended seal life.

NPK hydraulic hammers are designed to eliminate the need for bladder type accumulators that are susceptible to unexpected failure and high maintenance cost. Built with only two moving parts, NPK hydraulic hammers provide the increased productivity you want and the reliability you need.



NPK

Service, Parts and the Best Dealer Network



The most powerful hammers in the world

NPK breaks new ground in hydraulic hammer technology with several new models that deliver excellent blow energy. The NPK "GH" Series includes the world's most powerful hydraulic hammers. Models range from the GH-06 impact energy rated at **150 ft. lbs.** to the giant GH-50 with its **20,000 ft. lbs.** rating.

Utilizing state of the art computer modeling, NPK has designed a lighter weight hammer that delivers high impact energy. Manufactured and tested to NPK's high standards of quality, NPK backs all models with the industry's best service and support staff.

In addition, NPK maintains an extensive network of more than 260 distributor outlets, the industry's most comprehensive field service corps and an extensive parts distribution network to assure you receive the best results with NPK hydraulic hammers.



NPK

The Right Hammer for Every Job!



The most extensive line of hammers for excavators

These rugged hammers, with shock-absorbing mounting systems, are capable of high production rates in all forms of concrete as well as medium and hard rock.

These hammers feature a compact design and a long piston stroke coupled with greater hydraulic efficiency, enabling small carriers to deliver a high impact, highly productive hammer. In addition, the New "GH" Series Hammers come equipped with separate ports for the NPK AutoLube system and an air line for underwater applications.

Low operating noise levels that are friendlier to both operator and community are achieved by special cushioning and the bracket design surrounding the hammer.



NPK

All the Right Attachments!

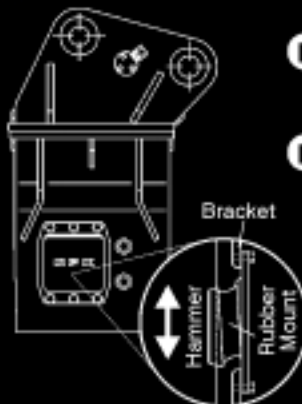
A better design that combines

! EFFICIENCY ! RELIABILITY ! SERVICEABILITY

- A. Excellent power-to-weight ratio
- B. Unique gas-charged piston maximizes hammer efficiency
- C. Simple, two-moving-parts design for reliability
- D. Idle blow sensor virtually eliminates blank firing for long hammer life
- E. Separate ports for the NPK Auto Lube system and an air line for underwater use
- F. Bottom tie rod nuts for easier serviceability (GH Models)
- G. Quick-change tool system with single round retainer pin
- H. Variety of tool configurations available
- I. Replaceable cylinder sleeves for easy, economical rebuild
- J. Tool bushings engineered for quick, easy replacement

Vibration control that increases operator comfort to increase **EFFICIENCY**

Standard on all medium and large NPK hammers, our shock-absorbing mounting bracket uses special heavy duty rubber mounts to absorb shock, recoil, and impulse vibration. Their unique one-piece design eliminates the need for mechanical springs and overly heavy mounting brackets. The net result is that you minimize machine wear and improve operator comfort for greater reliability and productivity.



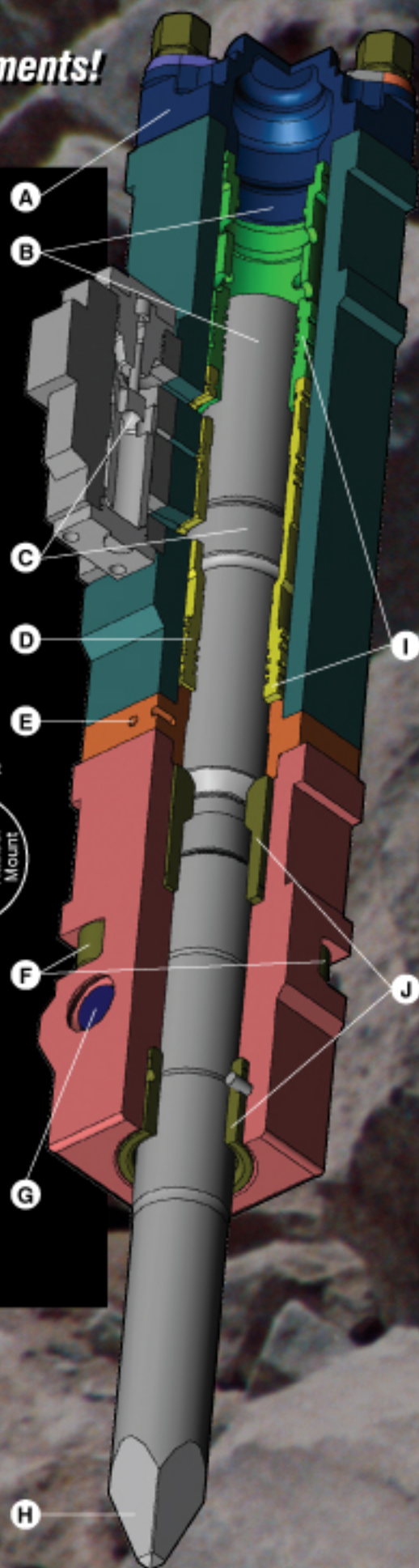
Simplified lubrication for greater **RELIABILITY**

A grease port is provided for automatic and/or manual greasing of the demolition tool. This prevents damage or premature wear caused by a lack of grease.

Full **SERVICEABILITY** of the industry's easiest, lowest cost, body-rebuild system

Hammers aren't meant to have an easy life. They occasionally need to be rebuilt. When the hammer body is involved, NPK's replaceable sleeve design can reduce your costs by a factor of **five to ten**. Here are the typical costs involved to re-sleeve the body of an NPK hammer and replace the main body of a hammer from another major manufacturer.

Sleeve vs. Main Body Replacement Cost Comparison





HYDRAULIC HAMMERS

The right model for every machine

Specifications

NPK Model	Impact Energy Class* ft lbs	Impact Frequency bpm	Recommended Carrier Weight tons	Oil Flow gpm (lpm)	Operating Pressure psi (bar)	Working Weight lb (kg)	Tool Diameter in (mm)	Tool Working Length in (mm)
GH-06	150	480-1200	1.2-2.2	2.5-7 (10-25)	1,650 (115)	235 (107)	1.7 (42)	12.2 (311)
GH-07	200	500-1200	1.5-2.75	4-9 (15-35)	1,500 (105)	270 (125)	1.9 (47)	13.1 (333)
PH-1	350	550-1100	2-3.5	7-15 (25-55)	2,465 (170)	423 (192)	2.2 (57)	14.1 (359)
PH-2	500	500-1200	3-5.5	7-18 (25-60)	2,465 (170)	487 (221)	2.6 (66)	16.2 (412)
PH-3	750	500-1150	4-8	12-26 (45-100)	2,465 (170)	825 (374)	3.0 (76)	16.5 (420)
PH-4	1,300	400-1000	6-9	13-32 (50-120)	2,465 (170)	1,064 (483)	3.4 (86)	16.5 (470)
GH-6	2,000	500-800	11-15.5	24-40 (90-150)	2,400 (165)	2,150 (980)	4.2 (106)	20 (500)
GH-7	2,500	400-750	14-21	26-48 (100-180)	2,600 (180)	2,900 (1,320)	4.6 (116)	23 (583)
GH-9	3,000	500-670	20-28	40-53 (150-200)	2,600 (180)	3,600 (1,635)	5.0 (126)	24 (608)
GH-10	4,000	400-550	23-33	44-55 (165-210)	2,600 (180)	4,200 (1,900)	5.4 (136)	24.5 (620)
GH-12	5,500	380-480	28-43	45-58 (170-220)	2,650 (183)	5,650 (2,565)	5.7 (146)	25.5 (650)
GH-15	8,000	320-400	33-50	53-66 (200-250)	2,600 (180)	6,800 (3,085)	6.1 (156)	27 (690)
GH-18	12,000	300-400	35-57	58-77 (220-290)	2,500 (172)	7,800 (3,540)	6.5 (165)	29 (740)
GH-23	13,500	300-400	50-75	66-85 (250-320)	2,600 (180)	9,240 (4,190)	6.9 (174)	34.6 (880)
GH-30	15,000	310-390	50-93	74-92 (280-350)	2,600 (180)	13,500 (6,125)	7.2 (184)	32 (813)
GH-40	17,000	240-330	80-130	79-106 (300-400)	2,600 (180)	17,000 (7,710)	8.0 (204)	35.4 (899)
GH-50	20,000	210-280	120+	92-119 (350-450)	2,600 (180)	24,910 (11,300)	8.4 (214)	39.7 (1008)

* "Impact Energy Class" is a marketing rating and does not relate to measured impact energy. Working weights may vary with bracket configuration. Specifications subject to change without notice.

NPK...All the Right Attachments! With innovation throughout construction's most extensive line.



Compactor Drivers



Primary/Secondary Crushers



Material Processors



Pedestal Breaker Systems



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