

# NPK®

## Hydraulic Hammer



# NPK®

a division of Nippon Pneumatic Mfg. Co. Ltd. Osaka Japan

[www.npke.eu](http://www.npke.eu)

## THE NEXT GENERATION HYDRAULIC HAMMERS: PH-SERIES (6 models)



**PH-1**

Excavator weight:  
2 - 3,5 ton



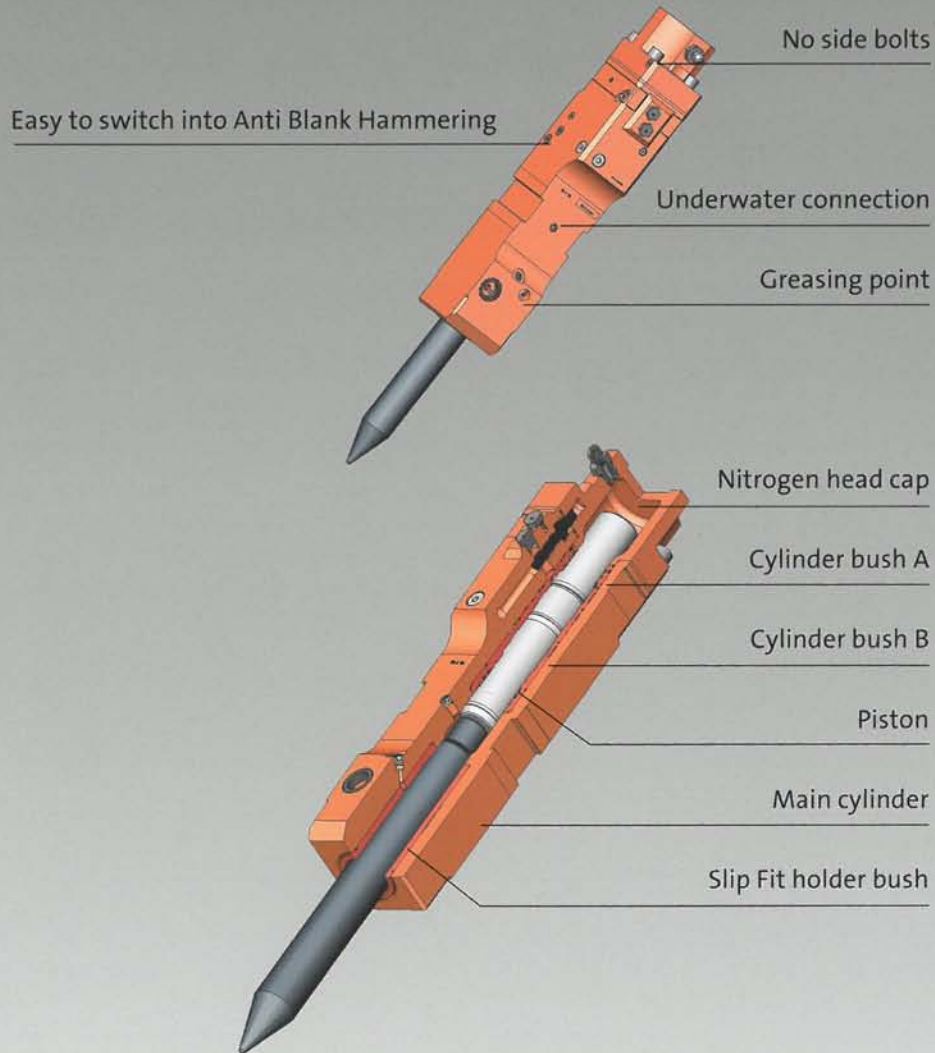
**PH-2**

Excavator weight:  
3 - 5,5 ton



**PH-3**

Excavator weight:  
4 - 9 ton



### ADVANTAGES

- Easier maintenance.
- New valve system.
- Slip Fit holder bush.
- Bigger retainer pin.
- Chisel same as GH-series.
- Better balance with excavator.
- Easy to switch to Anti Blank Hammering.
- Lower weight.
- Lower gas pressure (only 1,2 MPa).
- No side bolts.
- Carburized cylinder.
- Less parts.

## HYDRAULIC HAMMERS: GH-SERIES (10 models)



GH-6

Excavator weight:  
12 - 18 ton



GH-18

Excavator weight:  
38 - 50 ton



GH-30

Excavator weight:  
50 - 80 ton

### Unique gas charged piston action. The Power of NPK

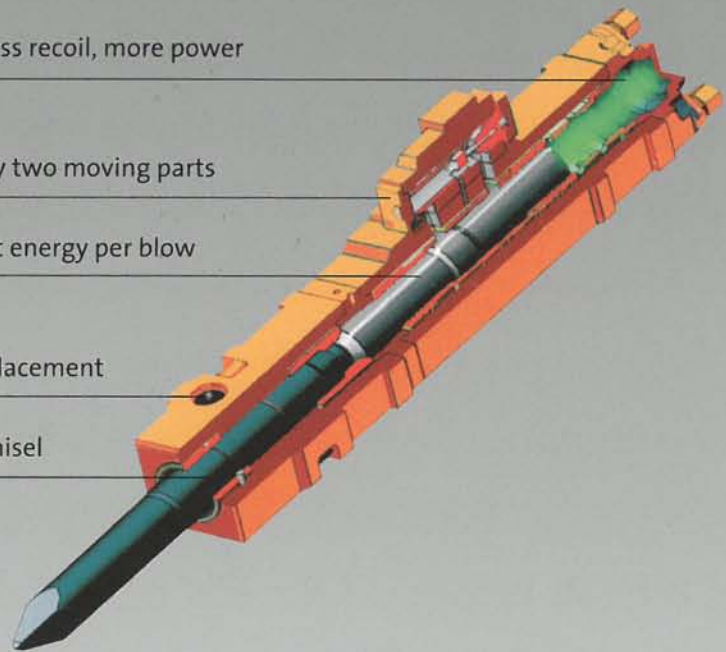
Nitrogen gas: less recoil, more power

Main valve: only two moving parts

Piston: constant energy per blow

Rapid chisel replacement

Genuine NPK Chisel



### ADVANTAGES

- New range of brackets which encloses the hammer in the best possible way: reduces sound and vibration.
- All models adaptable to underwater operation.
- Shock absorbing rubber cushions (from GH-7A) absorbs vibration and protects integrity of excavator boom and arm.
- Designed with sealed gas (N<sub>2</sub>) chamber – no rubber bladder accumulators.
- Constant energy per blow: Maintains high breakout force – not dependent upon blow rate.
- Rapid and easy chisel replacement: reduces downtime to a minimum.
- Replaceable tool bushings prevent wear to main chisel holder body and enhances the life of the breaker.
- Designed with automatic lubrication channeling which allows installation of lubrication system.
- Replaceable cylinder bushings to prevent wear of the hammer body. Easy to overhaul.



**Chisel (P)**

Concrete breaking  
Highway construction  
General demolition



**Chisel crosscut (FX)**

Trenching  
Cutting casting gates  
Breaking oversize  
General demolition



**Chisel (E)**

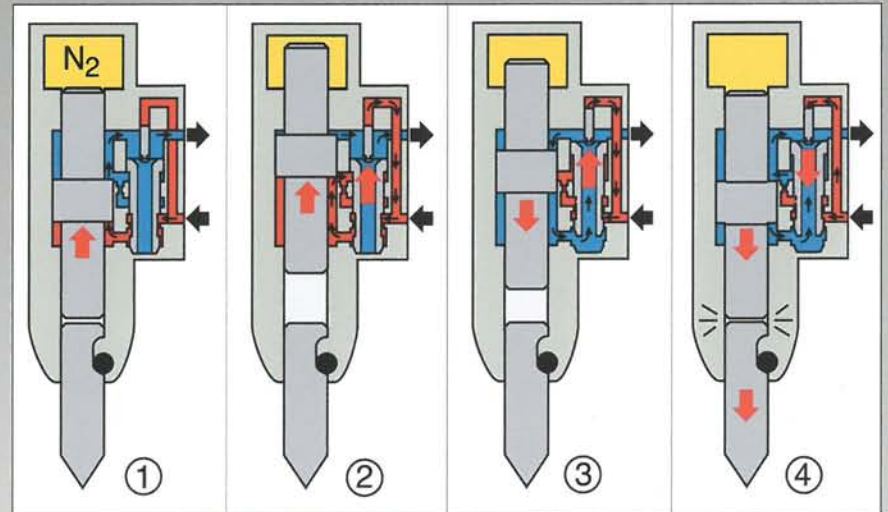
Secondary breaking  
Breaking oversize  
Slag removal



**Core Chisel (PC)**

The Core Chisel with its revolutionary steel core, provides extra hardness where it is required: at the point of impact. The benefit being less wear, increased productivity and lower replacements costs!

**WORKING PRINCIPLE**



**SHOCK ABSORBING CUSHION RUBBERS (FROM GH-7A): LOW VIBRATION AND LOW NOISE**

The shock absorbing mounting brackets, utilize special heavy-duty rubber mounts to absorb shock, recoil and impulse vibration. This unique NPK feature minimizes machine wear and improves operator comfort for greater reliability and productivity.





## TECHNICAL SPECIFICATIONS

Model	E-106	PH-06	PH-07	PH-1	PH-2	PH-3
Excavator weight (t)	0,7 - 1,0	1,0 - 2,0	1,5 - 3,0	2,0 - 3,5	3,0 - 5,5	4,0 - 9,0
Weight (kg)	62	94	112	162	200	314
Total length (mm)	872	991	1035	1154	1240	1395
Oil flow (l/min)	15 - 20	15 - 35	15 - 45	25 - 55	25 - 60	45 - 100
Blow frequency (bpm)	900 - 1200	480 - 1200	450 - 1300	550 - 1100	500 - 1200	500 - 1150
Min. excavator pressure (MPa)	15 ~	20 ~	21 ~	21 ~	21 ~	21 ~
Chisel diameter (mm)	41	42	47	57	66	76

Model	PH-4	GH-6	GH-7A	GH-9	GH-10
Excavator weight (t)	6 - 12	12 - 18	14 - 21	17 - 24	21 - 28
Weight (kg)	465	851	1220	1482	1691
Total length (mm)	1570	1931	2235	2356	2535
Oil flow (l/min)	50 - 120	90 - 150	100 - 180	150 - 200	165 - 210
Blow frequency (bpm)	400 - 1000	460 - 800	400 - 750	500 - 650	430 - 550
Min. excavator pressure (MPa)	21 ~	21 ~	21 ~	21 ~	21 ~
Chisel diameter (mm)	86	106	116	126	136

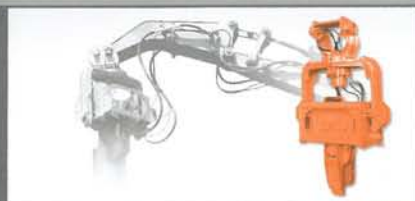
Model	GH-12	GH-15	GH-18	GH-23	GH-30	GH-40
Excavator weight (t)	24 - 38	28 - 45	38 - 50	50 - 60	50 - 80	90 - 110
Weight (kg)	2085	2618	3067	4525	5450	7750
Total length (mm)	2738	2933	3056	3320	3552	3867
Oil flow (l/min)	170 - 220	200 - 250	220 - 290	250 - 320	280 - 350	300 - 400
Blow frequency (bpm)	400 - 520	350 - 450	300 - 400	300 - 400	310 - 390	240 - 330
Min. excavator pressure (MPa)	21 ~	21 ~	21 ~	21 ~	21 ~	21 ~
Chisel diameter (mm)	146	156	165	174	184	204

Technical specifications subject to change without prior notice

## HYDRAULIC HAMMERS



## SHEET PILERS



## STEEL SHEARS



## X-Y-Z CONCEPT



## COMPACTORS



## CRUNCHERS



## CRUSHERS



## DEMOLITION GRABS



## MULTI- PROCESSORS



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