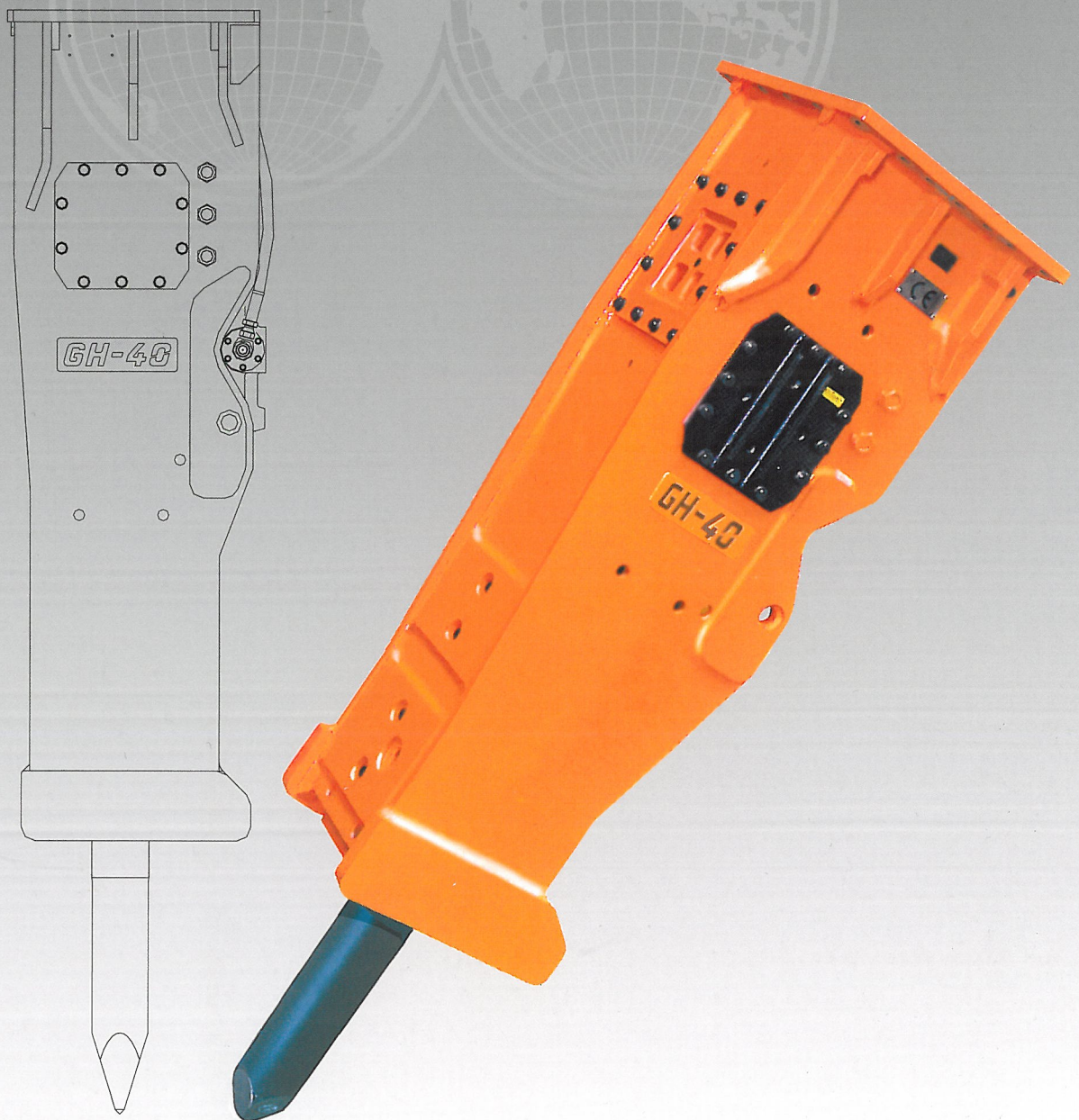


# NPK®

## Hydraulic Hammer



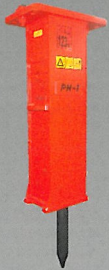
# NPK®

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

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



## THE NEXT GENERATION HYDRAULIC HAMMERS: PH-SERIES (3 models)



**PH-1**

Excavator weight:  
2 - 3,5 ton



**PH-2**

Excavator weight:  
3 - 5,5 ton



**PH-3**

Excavator weight:  
4 - 9 ton

Easy to switch into Anti Blank Hammering

No side bolts

Underwater connection

Greasing point

Nitrogen head cap

Cylinder bush A

Cylinder bush B

Piston

Main cylinder

Slip Fit holder bush

## 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 (13 models)



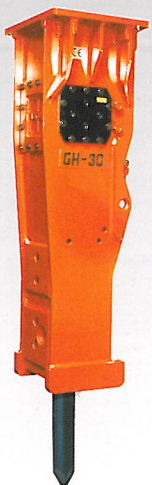
**GH-6**

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

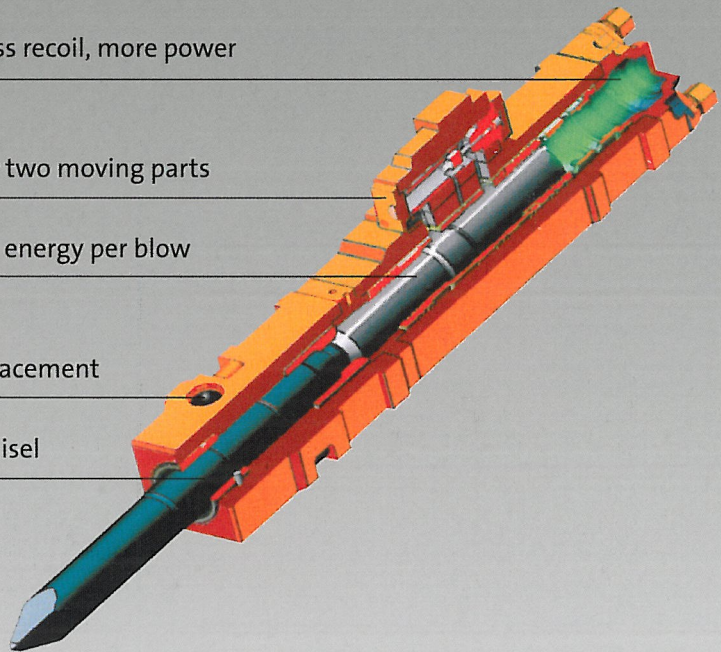
Nitrogen gas: less recoil, more power

Main valve: only two moving parts

Piston: constant energy per blow

Rapid chisel replacement

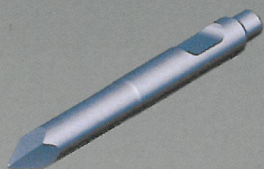
Genuine NPK Chisel



## ADVANTAGES

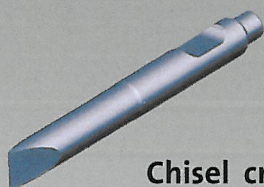
- New range of brackets which encloses the hammer in the best possible way: reduces sound and vibration.
- All models adaptable to underwater operation.
- Shock absorbing rubber cushions (from GH-7A) absorbs vibration and protects integrity of excavator boom and arm.
- Designed with sealed gas (N<sub>2</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.





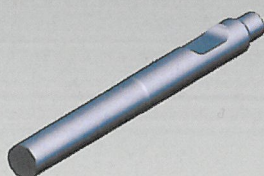
**Chisel (P)**

Concrete breaking  
Highway construction  
General demolition



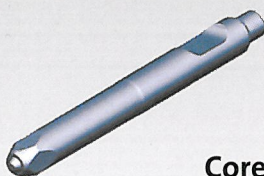
**Chisel crosscut (FX)**

Trenching  
Cutting casting gates  
Breaking oversize  
General demolition



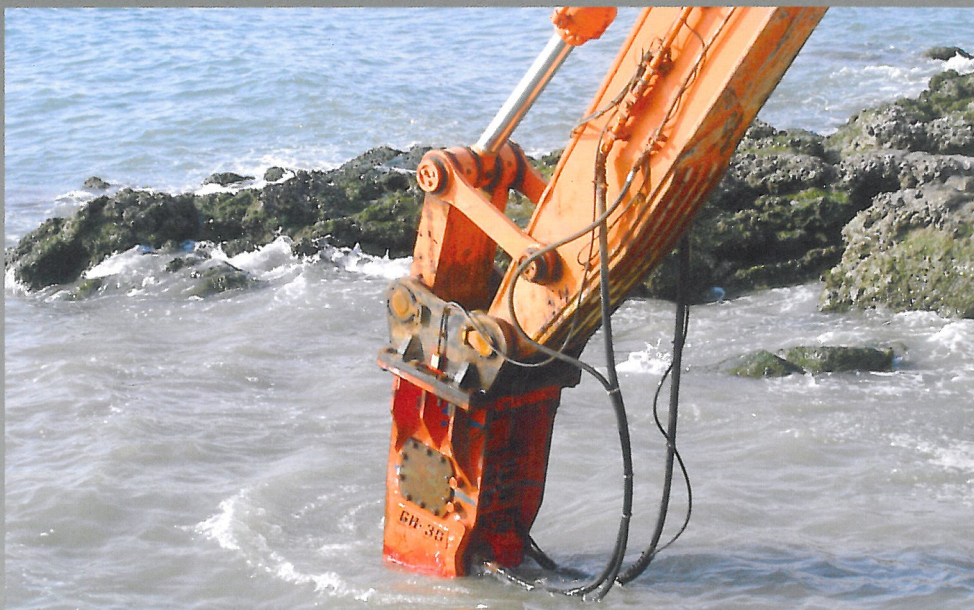
**Chisel (E)**

Secondary breaking  
Breaking oversize  
Slag removal

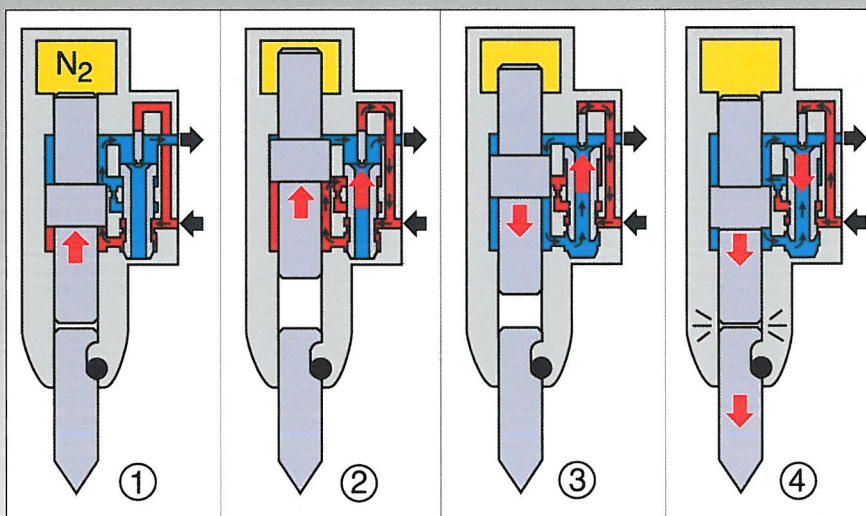


**Core Chisel (PC)**

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!

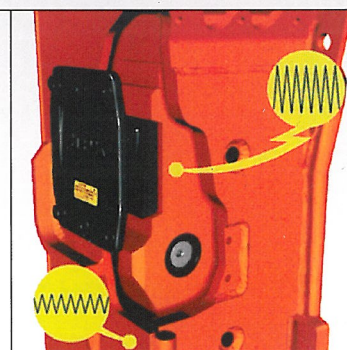


## WORKING PRINCIPLE



## 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      | GH-06      | GH-07      | PH-1       | PH-2       | PH-3       |
|-------------------------------|------------|------------|------------|------------|------------|------------|
| Excavator weight (t)          | 0,7 - 1,0  | 1,2 - 2,0  | 1,5 - 3,0  | 2,0 - 3,5  | 3,0 - 5,5  | 4,0 - 9,0  |
| Operating weight* (kg)        | 62         | 127        | 138        | 162        | 200        | 314        |
| Total length (mm)             | 872        | 1037       | 1088       | 1140       | 1230       | 1385       |
| Oil flow (l/min)              | 15 - 20    | 10 - 25    | 15 - 35    | 25 - 55    | 25 - 60    | 45 - 100   |
| Blow frequency (bpm)          | 900 - 1200 | 480 - 1200 | 500 - 1200 | 550 - 1100 | 500 - 1200 | 500 - 1150 |
| Min. excavator pressure (MPa) | 15 ~       | 17,5 ~     | 17,5 ~     | 21 ~       | 21 ~       | 21 ~       |
| Chisel diameter (mm)          | 41         | 42         | 47         | 57         | 66         | 76         |

| Model                         | GH-4       | GH-6      | GH-7A     | GH-9      | GH-10     |
|-------------------------------|------------|-----------|-----------|-----------|-----------|
| Excavator weight (t)          | 6 - 12     | 12 - 18   | 14 - 21   | 17 - 24   | 21 - 28   |
| Operating weight* (kg)        | 634        | 913       | 1345      | 1607      | 1816      |
| Total length (mm)             | 1690       | 1931      | 2275      | 2395      | 2575      |
| 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) | 17,5 ~     | 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  |
| Operating weight* (kg)        | 2310      | 2843      | 3292      | 4525      | 5450      | 7750      |
| Total length (mm)             | 2777      | 2988      | 3105      | 3325      | 3452      | 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       |

\*Operating weight including standard top bracket

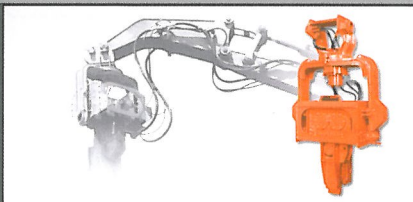
Technical specifications subject to change without prior notice



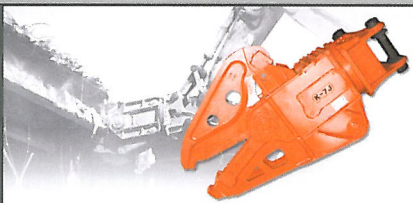
## HYDRAULIC HAMMERS



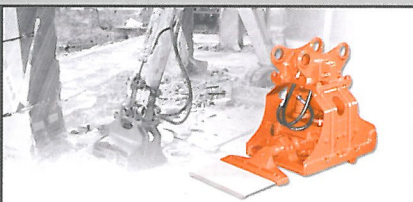
## SHEET PILERS



## STEEL SHEARS



## X-Y-Z CONCEPT



## COMPACTORS



## CRUNCHERS



## CRUSHERS



## DEMOLITION GRABS



## MULTI- PROCESSORS



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