



**BK**  
HYDRAULIC HAMMERS



**BK** HYDRAULIC CO. LTD

**BK**

BK HYDRAULIC CO., LTD

150-300 Gajwa-dong, Seo-gu, Incheon, Korea.

 **SIA & YEO**  
HEAVY EQUIPMENT PTE LTD  
余杨重机械私人有限公司

# OUTLAST, OUTPERFORM



**High productivity** High percussive performance and EnergyRecovery can increase the output per shift and lower energy & fuel consumption and operator costs.

**Outstanding reliability** Effective dust protection, automated lubrication and double tool retainer bars help to increase breaker availability, lifetime and resale value.

**Low maintenance** Automated lubrication, tailor made maintenance kits and an extended warranty program help to keep service & maintenance cost on a low level.

**Easy maintenance** Service opening provides direct access for routine maintenance; the percussion mechanism can be removed simply from the breaker box.

**Automatic lubrication** Mounted directly on the breaker box is simple to use and makes extremely economical use of lubricant.

**Low maintenance** Automated lubrication, tailor made maintenance kits and an extended warranty program help to keep service & maintenance cost on a low level.

**Reduced strain on carrier** Percussion mechanism suspended in prestressed elastic damping elements to prevent damage to carrier equipment.

**Low noise emission levels** No acoustic bridges between percussion mechanism and breaker box. All openings plugged.

**Low-recoil action reduces strain on man and machine** Long piston stroke for low recoil.

**Highly durable breaker box** Wear-resistant materials used in high-stress zones.

**Highly durable wear bushings** DustProtector effectively prevents dust penetration.

**Reliable working tools** Precision matching of design, materials and heat treatment. In-house production.



# The Suitable Breaker for each Application



			SB	MB	HB
Mining & quarrying	Preliminary works	Overburden removal Bench, road & ramp levelling Roof, face & rib scaling	●	●	○
	Secondary breaking	Boulder reduction in rock pile Removing blockages at crushing systems	○	●	●
	Primary rock breaking	Selective rock breaking Blast-free mining	-	○	●
Demolition & renovation	Masonry structures	Brickwork Natural stone Autoclaved aerated concrete	●	○	-
	Concrete structures	Lightweight concrete Standard concrete Heavyweight concrete	●	●	○
	Composite steel & concrete structures	Steel-reinforced concrete Prestressed concrete Fibre-reinforced concrete	-	○	●
	Pavements	Asphalt Concrete Composite surfaces	●	●	●
Construction	Earthworks	Trenching Pit building Ground excavation	○	●	●
	Tunneling	Tunnel driving Roof, face & rib scaling Floor levelling	○	●	●
	Dredging	Canal deepening & extension Dock deepening & extension	○	○	●
	Gardening & Landscaping	Fencing Ground excavation Rock breaking	●	○	-
	Foundation works	Ground levelling	-	○	●
	Building construction	Foundation pile driving	-	○	●
Metallurgical industry	Slag recycling	Boulder reduction in slag heap Removing blockages at crushing systems	○	●	●
	Cleaning & debricking	Ladles Converter mouths Kilns	●	○	-

● Optional ○ Suitable - Unsuitable  
SB (Compact range) : BK 10-BK 70 MB (Medium range) : BK 100-BK 220 HB (Heavy-duty range) : BK 300-BK 800

## Accessories

### Auto lubrication system

Automatic lubrication system designed to ensure a long, trouble-free life specifically for hydraulic hammers.

The unit is installed to the hammer's housing with a mounting plate and no external electric cables or hydraulic hoses are needed.



### Auto shut-off system

The hammer stops hammering itself to prevent a damage caused by blank hammering.

### Accumulator

BK 160, BK 200, BK 200V, BK 220 is an option. BK 300 and above is basically equipped.

### Blow rate control system

Two modes are available. BR mode is suitable for soft, nonabrasive rock and especially concrete. IE mode is suitable for hard and abrasive rock

#### BR mode



#### IE mode



# BK Series / Specification

## Silenced Type (Box Type)

Description	Unit	BK 10S	BK 20S	BK 30S	BK 40S	BK 50S	BK 70S	BK 100S	BK 140S	BK 160S	BK 200S	BK 200VS	BK 220S	BK 300S	BK 400S	BK 500S	BK 800S
Operating weight	kg	100	134	148	186	304	405	530	880	1307	1462	1710	1903	2454	3020	4120	7415
Overall length	mm	1087	1215	1285	1363	1682	1684	2068	2361	2615	2701	2766	2860	3057	3306	3782	4443
Operating pressure	bar	80~100	100~120	100~120	110~130	140~160	140~160	120~150	150~170	150~180	160~180	160~180	160~180	160~180	160~180	160~180	190~210
Impact rate	bpm	700~1200	700~1200	550~1000	500~900	500~800	400~800	400~800	400~700	400~600	400~600	400~700	400~600	300~550	250~400	200~350	200~400
Impact energy	joule	180	254	286	447	620	945	1029	2630	4740	5210	5830	6380	8250	12110	14870	16740
Hose diameter	inch	3/8	3/8	1/2	1/2	1/2	1.2	3/4	3/4	1	1	1	1	1	1 1/4	1 1/4	1 1/4
Tool diameter	mm	36	45	53	60	68	75	85	100	125	135	135	140	150	160	180	210
Applicable carrier	ton	0.8~2.5	1.2~3	2.5~4.5	3~5.5	4~7	6~9	7~12	11~16	14~18	16~21	16~25	18~26	25~32	30~42	45~60	70~100

\* The above specifications are subject to change without prior notice for improvement.

## Standard Type (Open Type)

Description	Unit	BK 10	BK 20	BK 30	BK 40	BK 50	BK 70	BK 100	BK 140	BK 160	BK 200	BK 200V	BK 220	BK 300	BK 400	BK 500	BK 800
Operating weight	kg	70	87	106	178	272	384	508	872	1255	1455	1668	1871	2380	2960	4064	7251
Overall length	mm	1050	1146	1230	1288	1491	1613	2115	2387	2621	2757	2775	2781	3062	3265	3854	4385
Operating pressure	bar	80~100	100~120	100~120	110~130	140~160	140~160	120~150	150~170	150~180	160~180	160~180	160~180	160~180	160~180	160~180	190~210
Impact rate	bpm	700~1200	700~1200	550~1000	500~900	500~800	400~800	400~800	400~700	400~600	400~600	400~700	400~600	300~550	250~400	200~350	200~400
Impact energy	joule	180	254	286	447	620	945	1029	2630	4740	5210	5830	6380	8250	12110	14870	16740
Hose diameter	inch	3/8	3/8	1/2	1/2	1/2	1.2	3/4	3/4	1	1	1	1	1	1 1/4	1 1/4	1 1/4
Tool diameter	mm	36	45	53	60	68	75	85	100	125	135	135	140	150	160	180	210
Applicable carrier	ton	0.8~2.5	1.2~3	2.5~4.5	3~5.5	4~7	6~9	7~12	11~16	14~18	16~21	16~25	18~26	25~32	30~42	45~60	70~100

\* The above specifications are subject to change without prior notice for improvement.

## Side Type (Triangle Type)

Description	Unit	BK 10E	BK 20E	BK 30E	BK 40E	BK 50E	BK 70E	BK 100E	BK 140E	BK 160E	BK 200E	BK 200VE	BK 220E	BK 300E	BK 400E	BK 500E	BK 800E
Operating weight	kg	70	85	104	154	264	380	492	853	1260	1410	1684	1989	2394	3085	4010	7180
Overall length	mm	899	1010	1074	1124	1312	1366	1728	1927	2155	2289	2290	2337	2571	2737	3249	3792
Operating pressure	bar	80~100	100~120	100~120	110~130	140~160	140~160	120~150	150~170	150~180	160~180	160~180	160~180	160~180	160~180	160~180	190~210
Impact rate	bpm	700~1200	700~1200	550~1000	500~900	500~800	400~800	400~800	400~700	400~600	400~600	400~700	400~600	300~550	250~400	200~350	200~400
Impact energy	joule	180	254	286	447	620	945	1029	2630	4740	5210	5830	6380	8250	12110	14870	16740
Hose diameter	inch	3/8	3/8	1/2	1/2	1/2	1.2	3/4	3/4	1	1	1	1	1	1 1/4	1 1/4	1 1/4
Tool diameter	mm	36	45	53	60	68	75	85	100	125	135	135	140	150	160	180	210
Applicable carrier	ton	0.8~2.5	1.2~3	2.5~4.5	3~5.5	4~7	6~9	7~12	11~16	14~18	16~21	16~25	18~26	25~32	30~42	45~60	70~100

\* The above specifications are subject to change without prior notice for improvement.

# Backhoe Loader and Skid Steer Loader



Description	Unit	BK 30-SL	BK 30S-SL	BK 40-SL	BK 40S-SL
Operating weight	kg	175	217	223	260
Tool diameter	mm	53	53	60	60

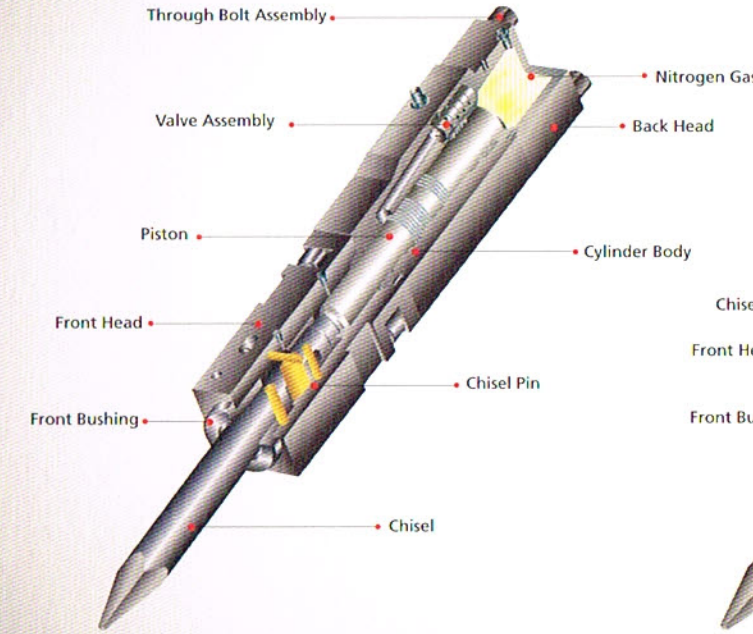
Description	Unit	BK 50-BH	BK 50S-BH	BK 70-BH	BK 70S-BH
Operating weight	kg	272	304	384	405
Tool diameter	mm	68	68	75	75

## Applicable Carrier

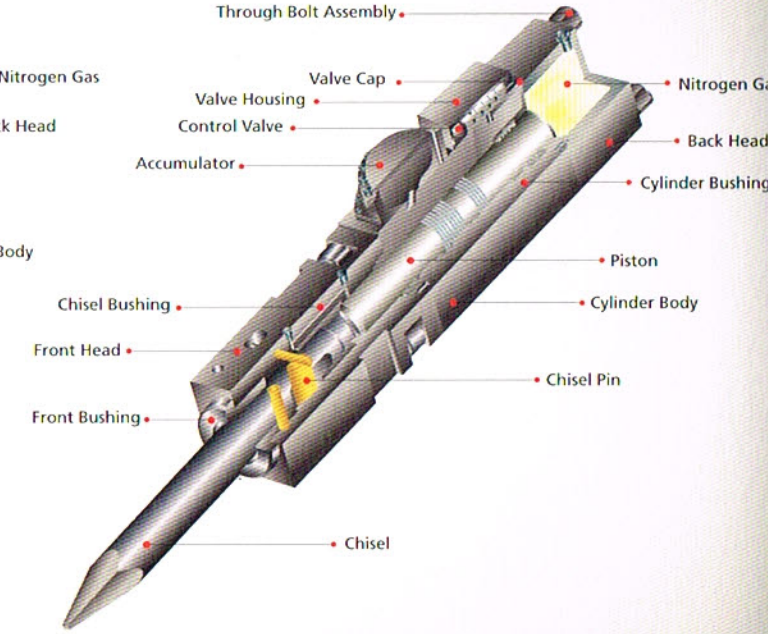
Model	BK 10	BK 20	BK 30	BK 40	BK 50	BK 70	BK 100	BK 140	BK 160	BK 200	BK 200V	BK 220	BK 300	BK 400	BK 500	BK 800
Applicable Carrier	0.8-2.5	1.2-3	2.5-4.5	3-5.5	4-7	6-9	7-12	11-16	14-18	16-21	16-25	18-26	25-32	30-42	45-60	70-100
<b>CAT</b>		301	302-5 303-5 216 226 228	307 303CR 304-5,232 236,242 246,248	305CR,307 416D 420,426 428,430 438,E70B	E70B 428 430	307 308 931 446B	311,312,314 E110B,205 206,515 206BFT 212BFT	317, M318 320L 214B,315 E120B 525B 535B	320	545 320 320B 322	320 321 322(L) 235	229 325 330(L) 235	S330(L) 345BL	245,365 50ME 345,350(L)	374D L 390D 390D L
<b>HYUNDAI</b>	R16-7	R22-7	R35-7	HSL650-7 R55-5	R55-7 HSL850-7 R60W-7 R60-7	R60	R80-7	R130W R130LC-7 R140LC-7	R170W-7 180W/LC-7 R190W/LC	R210LC-7	R210LC-7	R210LC-7 R250LC-7	R290LC-7 R320LC-7	R320LC-7 R360LC-7	R420LC-7 R450LC-7 R500LC-7	R800LC-9 R800LC-7A
<b>HITACHI</b>	EX8 EX12	UE10 UE15 EX18	ZX27U, 30U ZX27U, 30U 35U	ZX40U-2 ZX50UR-2 EX25,30	EX60,70,75 ZX70,75	EX70,75 ZX70,75	UH04 EX70,80,90 WH04 ZX110 EX50,EX60	EX100 EX120 ZX120	ZX160W EX150 160WD	EX200	ZX230	EX200,220 240LC ZX230	EX270,300	400 ZX330 360LC	EX400	ZX870LC-5
<b>KOMATSU</b>	PC10	PC20 25 30	30	45-1 60-7 PC40	PC50/60 PC75/80 PW75 PC90	PC75 PC80	PC80	130-6,150 PW130-6	PC160-6 180-6 PW170ES-6	PC200-6	PC200-6	PC200-6 PC240 PC220-6	PC250	PC300	340,380LC-6	PC400,450-6 PC800-7
<b>JCB</b>	801	8015 8016	1CX,2CX 803,804 ROBOT150 160/165 170/185	3CX,4CX JS70 ROBOT190	ROBOT1105 1110 407/408/409 410ZX	3CX 4CX ZL70	4CX 416HT	JS130 JS145,805 806,811 812,814 JS150,175 5C/W	JS160,180 JS150,175	JS200	JS220 JS240 JS200	JS220 JS240 JS200	JS260 JS290	JS330 JS360	JS450 JS460	
<b>KOBELCO</b>	SK015 SK020	15SR 20SR	30 30SR	40SR 55SR	SK050 SK60	SK60 70SR	SK60 70SR	100 100W 115SR	120LC 150LC 135SR	SK200-8	SK200-8 230LC	SK200-8 230LC 250LC	300LC 320	SK330-8	SK460-8	SK850LC
<b>DOOSAN</b>	15		30	50W 55	70	70 80	80W	130W 135W 140W 150	170W-3		225LC-7 220LC-5	300 290LC-3 330LC-3	300LC-5 290LC-3 330LC-3	360LC-3	420 400LC-3 500	DX700LC
<b>NEW HOLLAND CONSTRUCTION</b>	E9	E16 E18	E20 E22 E27	E30 E35	E40 E50 B90B B100B	E80 E90	E70SR E80SR B110B	MH2,6 MH3,6	E135B E150		E175B MH5,6 E195B	E195B MH6,6 MH8,6 E215	E235 E245	E385	E485B	
<b>VOLVO</b>	EC14 EC15B	EC20B	EC30 EC25 ZL302C	3W EC35 EC45	EW50 EW70 L20B/25B L30B/35B L40B/45B	EW70 BL74	BL74 L50D 612 616B	EC130 EW130 SE130W EW140/646 L60E L70E	EC140B EC150 EW150 EW160 L90E	EC210B	EC210B	EC210B EC240B	EC210B EC290B	352 360B 460B	EC620 EC650	EC700
<b>LIEBHERR</b>					A310 L506/507 508/509 512/514	512 514 A308	A308 A310	A/R902 R317 R313 R312 A316		A900C A904 A912 A922 R906	A/R942LIT R916 A914 A924	R924 R926 R954 R961 R962	R944 R952 R954LIT	A944 R962LIT R964		

# Valve Types

## Valve built-in type



## Valve built-out type



### Compact range

Model	Operating Weight (kg)	Applicable Carrier (ton)	Valve Type
BK 10	100	0.8 ~ 2.5	Built-in
BK 20	134	1.2 ~ 3	Built-in
BK 30	148	2.5 ~ 4.5	Built-in
BK 40	186	3 ~ 5.5	Built-in
BK 50	304	4 ~ 7	Built-in
BK 70	405	6 ~ 9	Built-in

### Medium range

Model	Operating Weight (kg)	Applicable Carrier (ton)	Valve Type
BK 100	530	7 ~ 12	Built-in
BK 140	880	11 ~ 16	Built-in
BK 160	1307	14 ~ 18	Built-in
BK 200	1462	16 ~ 21	Built-in
BK 200V	1710	16 ~ 25	Built-out
BK 220	1903	18 ~ 26	Built-in

### Heavy-duty range

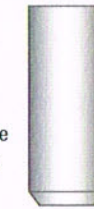
Model	Operating Weight (kg)	Applicable Carrier (ton)	Valve Type
BK 300	2454	25 ~ 32	Built-out
BK 400	3020	30 ~ 42	Built-out
BK 500	4120	45 ~ 60	Built-out
BK 800	7415	70 ~ 100	Built-out

## Chisel Types



### MOIL POINT TOOL

- Soft, nonabrasive and tough rock and especially concrete
- Materials requiring high penetration rate
- Where chisels have excessive retaining pin groove wear



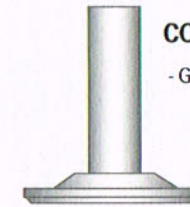
### FLAT (BLUNT) TOOL

- Hard rock with low or medium abrasive content
- Boulder breaking or concrete demolition
- Application where tool wear rate is low



### UNIVERSAL TOOL

- Where chisels have excessive retaining pin groove wear
- Soft and nonabrasive rock
- General demolition of concrete



### COMPACTING TOOL

- Ground compacting



### H-WEDGE TOOL

- Hard and abrasive rock with fractures
- For application where drilling and blasting cannot be used
- Materials with low penetration rate



### ASPHALT CUTTING TOOL

- Frozen or compact ground
- Asphalt