

# **Hydraulic hammers**

Join us Accept us Believe us



www.jabkor.co.kr

### **COMPANY OVERVIEW**

#### **GREAT BRAND, GREAT TOOLS JAB**

JAB has a proud tradition of being a global leader in the development of a wide range of innovative hydraulic products used in a variety of industries and applications throughout the world. As a proud member of JAB, a 20 year old company committed to the manufacture and distribution of quality tools for the professional, industrial, and consumer, we at JAB are dedicated to providing our customers with innovative customer-driven product designs, world class quality, unmatched product support, and superior value

#### **GLOBAL REPRESENTATION**

JAB produces an extensive line of products for use in construction, demolition, scrap processing, recycling, utilities, municipalities, railroads, industry, landscaping, underwater, construction, and specialty trades. JAB Tools has sales offices and distributors throughout North America, Central America, South America, Europe, Asia, Australia, and the Middle East

#### **OUR MISSION**

- We provide reliable attachments and excellent after sales.
- Our commitment is to establish and maintain long term business relationships.



## **ABOUT US**





#### Good know-how Heat treatment

- · Customized Heat treatment of product characteristics
- $\cdot$  Over 20 years experience in Heat treatment
- · Issued Heat treatment record document
- · Up-To-Date Heat treatment facilities



#### Purchasing high quality steel material

- · Use Korean special steel
- · Periodic material analysis & Test by official institutes



#### **Perfect CNC machining**

- · Over 20 years experience in processing
- $\cdot$  Up-To-Date Facilities & Processing automation



Perfect quality control according to own designed drawing

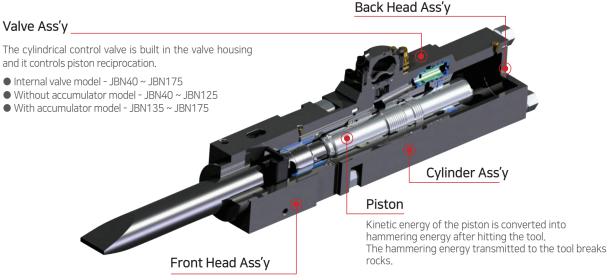
### JAB Hydraulic Breaker Cross-Section Diagram

### **Internal Valve Type**

JAB Co., Ltd. says its new JBN Series breaker features nitrogen gas-assisted operation for improved efficiency. Our soundproofing system is designed to prevent any damage caused by operating vibration which could otherwise be detrimental to both carrier and breaker itself.

#### **Special Features**

- · Box typed housing design
- $\cdot$  Soundproofing system for downtown area under construction
- · Polyurethane buffers reduces noise and absorbs vibration
- · MC Nylon plates are designed for fit tight on surrounded four sides
- · Low recoil movements for operator's safe condition
- · High impact energy & Low noise level
- · High performance ability & Low maintenance cost
- · Total 22 models of silenced type
- · Option item: Auto lubricant system



The front head supports the whole breaker.

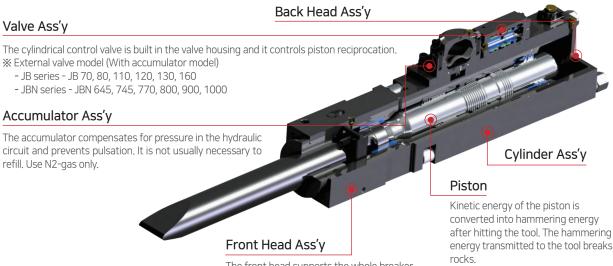
The thrust ring and the thrust bush prevents shock from the tool.

#### **External Valve Type**

Upper side of housing cover is stronger than other hammers with additional steel bars. Also, lower side of housing cover is reinforced for wear resistance.

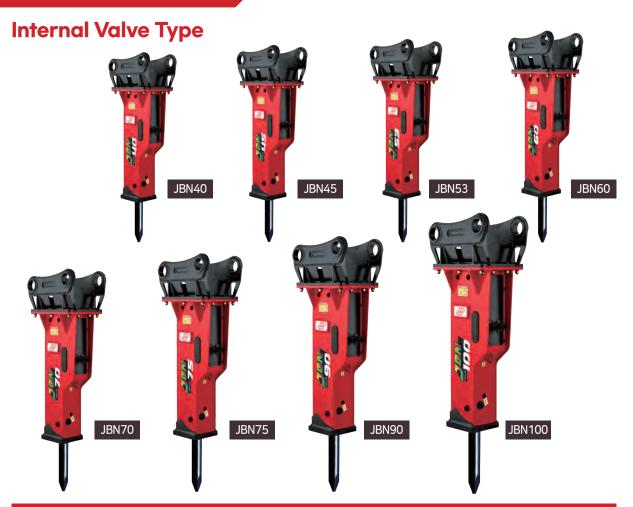
#### Special Features

- · Easy maintenance for valve system (External valve type)
- $\cdot$  High efficient work by optimized control valve
- · Low maintenance cost by easy management
- · High impact energy with nitrogen gas-assisted operation
- · High performance ability with anti-wear resistances
- · Option : Auto lubricant system



The front head supports the whole breaker.

The thrust ring and the thrust bush prevents shock from the tool.



#### **LIGHT WEIGHT BREAKERS** Internal Valve type (Without Accumulator)

Description	Model	Unit	JBN40	JBN45	JBN53	JBN60	JBN70	JBN75	JBN90	JBN100	
	Cilonaad	Kg	115	125	180	280	310	380	570	890	
Operating	Silenced	lb	254	276	397	617	683	838	1,257	1,962	
Weight (Tool + M / C)	Open Top	Kg	110	120	160	255	324	380	613	850	
(1001 : 1117 C)		lb	243	265	353	562	714	838	1,351	1,874	
Main Body V	Veight	Kg	50	60	86	112	156	192	266	434	
Tool	Weight	Kg	4	6.0	9	12	20	25	41	59	
(Moil type)	Diameter	mm	40	45	53	60	70	75	90	100	
Operating P	ressure	bar	80 ~ 100	80 ~ 100	90 ~ 120	100 ~ 130	95 ~ 130	100 ~ 140	130 ~ 160	150 ~ 170	
(Breaker)		psi	1,160 ~ 1,450	1,160 ~ 1,450	1,305 ~ 1,740	1,450 ~ 1,885	1,377 ~ 1,885	1,450 ~ 2,030	1,885 ~ 2,320	2,175 ~ 2,465	
Setting Pressure (Machine)		bar	150	150	150	160	170	180	190	200	
		psi	2,175	2,175	2,175	2,320	2,465	2,610	2,755	2,900	
Impact Rate		bpm	800 ~ 1,400	700 ~ 1,200	600 ~ 1,100	500 ~ 1,000	450 ~ 1,000	475 ~ 950	480 ~ 850	450 ~ 780	
Accumulato (N2-Gas)	r Pressure	bar / psi	NONE ACCUMULATOR								
Back Head F (N2-Gas)	ressure	bar / psi	14/203	14/203	16 / 232	16 / 232	16/232	16 / 232	16 / 232	16/232	
Required Oil	Elow	I/min	15 ~ 30	20 ~ 35	25 ~ 50	30 ~ 60	34 ~ 60	40 ~ 80	45 ~ 85	85 ~ 110	
Required Oil	FIUW	g / min	3.9 ~ 7.9	5.3 ~ 9.2	6.6 ~ 13.2	7.9 ~ 15.8	8.9 ~ 15.8	10.5 ~ 21.1	11.8 ~ 22.4	22.4 ~ 29	
	Min	ton	0.8	1.2	2.5	3	3.5	6	6	10	
	141111	lb	1,764	2,646	5,512	6,614	7,716	13,228	13,228	22,046	
Suitable	Max	ton	2.5	3	4.5	5.5	7	9	13	17	
Excavator	ITION	lb	5,512	6,614	9,921	12,125	15,432	19,842	28,660	37,479	
	Suitable	ton	1	2	3	5	6	7	10	14	
	Sultable	lb	2,205	4,409	6,614	11,023	13,228	15,432	22,046	30,865	

### **Internal Valve Type**



#### MID & HEAVY WEIGHT BREAKERS Internal Valve type (With Accumulator)

Description	Model	Unit	JBN125	JBN135	JBN140	JBN155	JBN175		
Description		Kg	1,200	1,700	1,930	2,400	3,860		
Operating Weight	Silenced	lb	2,646	3.748	4,255	5,291	8,510		
		Kg	1,280	1,800	2,020	2,640	4.470		
(Tool + M / C)	Open Top	lb	2,822	3,968	4,453	5,820	9.855		
Main Body Weight		Kg	520	682	812	1,114	1,665		
Tool	Weight	Kg	97	125	129	193	267		
(Moil type)	Diameter	mm	125	135	140	155	175		
Operating P	ressure	bar	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	160 ~ 180		
(Breaker)		psi	2,175 ~ 2,465	2,320 ~ 2,610	2,320 ~ 2,610	2,320 ~ 2,610	2,320 ~ 2,610		
Setting Pres	sure	bar	200	210	210	220	220		
(Machine)		ps i	2,900	3,045	3,045	3,190	3,190		
Impact Rate		bpm	420 ~ 730	350 ~ 680	280 ~ 550	280 ~ 550	200 ~ 350		
Accumulato (N2-Gas)	r Pressure	bar / psi	NONE ACCUMULATOR	60 / 870					
Back Head F (N2-Gas)	ressure	bar / psi	16 / 232	16 / 232	16 / 232	16 / 232	16 / 232		
Required Oil	Flow	I / min	100 ~ 120	120 ~ 150	120 ~ 150	160 ~ 240	210~290		
Required Oil	FIOW	g/min	26.4~31.6	31.6 ~ 39.6	31.6 ~ 39.6	42.2 ~ 63.3	55.5~76.6		
	Min	ton	15	18	20	28	40		
	IVIIII	lb	33,069	39,683	44,092	61,729	88,185		
Suitable	Max	ton	20	28	30	40	55		
Excavator	IVIAA	lb	44,092	61,729	66,139	88,185	121,254		
	Suitable	ton	17	20	24	34	48		
	Juitable	lb	34,479	44,092	52,911	74,957	105,822		

 $<sup>\</sup>begin{tabular}{ll} $\times$ Above specifications are subject to change without prior notice for the improvement in quality. \end{tabular}$ 

### **External Valve Type**

MID & HEAVY WEIGHT BREAKERS

Unit

JB70

Model

Min

Max

Suitable

Suitable

Excavator



#### Description 4,900 2,800 1,120 1,750 2,200 3,360 Kg Silenced Operating 6,173 2,469 7,408 10,803 3.858 4,850 Weight 1,280 1,820 2,390 2,950 3,240 4,890 Kg (Tool + M / C) Open Top 2,822 4,012 5,269 6,504 7,143 10,781 494 690 889 1,228 1,270 Main Body Weight Kg 1,910 Weight Tool Kg 88 120 162 213 226 288 120 (Moil type) Diameter mm 135 150 160 165 180 Operating Pressure bar 150 ~ 170 160 ~ 180 160 ~ 180 160 ~ 180 160 ~ 180 160 ~ 180 2,175 ~ 2,465 2,320 ~ 2,610 2,320 ~ 2,610 2,320 ~ 2,610 2,320 ~ 2,610 2,320 ~ 2,610 psi bar 200 210 220 **Setting Pressure** (Machine) 2,900 3,045 3,190 3,190 3,190 3,190 psi 400 ~ 750 Impact Rate bpm 350 ~ 700 300 ~ 650 260 ~ 450 250 ~ 370 220 ~ 350 Accumulator Pressure 60/870 bar / psi **Back Head Pressure** 6/87 6/87 6/87 6/87 16/232 12/174 bar / psi 90 ~ 120 190 ~ 280 125 ~ 150 150 ~ 190 180 ~ 250 250 ~ 340 I/min Required Oil Flow 23.7 ~ 31.6 33 ~ 39.6 39.6 ~ 50.1 47.5 ~ 66 50.1 ~ 73.9 66 ~ 89.7 g/min 14 18 24 33 37 44

39,683

28

61,729

20

44,092

JB80

JB110

52,911

36

79,366

30

66,139

lb

ton

lb

ton

lb

30,865

20

44,092

17

37,479

81,571

55

121,254

45

99,208

External Valve type (With Accumulator)

JB130

JB160

97,003

70

154,324

55

121,254

JB120

72,753

50

110,231

40

88,185

<sup>\*</sup> Above specifications are subject to change without prior notice for the improvement in quality.



#### **HEAVY WEIGHT BREAKERS**

#### External Valve type (With Accumulator)

Model Description		Unit	JBN645	JBN745	JBN770	JBN800	JBN900	JBN1000		
Description		Kg	2,850	3,300	3,800	4.400	6,300	10,500		
Operating Weight (Tool + M / C)	Silenced	<u>  1\9</u>      b	6,283	7.275	8,378	9,700	13.889	23,149		
		Kg	2,950	3,400	3.900	4.500	6.430	10,750		
	Open Top	l lb	6,504	7.496	8,598	9,921	14,176	23,700		
Main Body W	eiaht	Kg	1,250	1,260	1,690	1,700	2,720	4.800		
Tool	Weight	Kg	174	236	279	326	415	470		
(Moil type)	Diameter	mm	155	165	175	190	208	230		
Operating Pro	essure	bar	150 ~ 190	160 ~ 190	160 ~ 200	160 ~ 200	180 ~ 205	220 ~ 240		
(Breaker)		psi	2,134 ~ 2,702	2,276 ~ 2,702	2,276 ~ 2,845	2,276 ~ 2,845	2,610 ~ 2,973	3,190 ~ 3,480		
Setting Pressure		bar	240	240	250	250	250	270		
(Machine)			3,480	3,480	3,625	3,625	3,625	3,915		
Impact Rate		bpm	160 ~ 240	160 ~ 230	160 ~ 220	160 ~ 210	150 ~ 200	140 ~ 170		
Accumulator (N2-Gas)	Pressure	bar / psi	60 / 870							
Back Head Pressure		bar / psi	17 / 246	17 / 246	18 / 261	18 / 261	18 / 261	18 / 261		
Doguirod Oil I	Flow	I/min	180 ~ 250	180 ~ 250	210 ~ 280	220 ~ 290	230 ~ 300	360 ~ 430		
Required Oil I	FIOW	g/min	47.5 ~ 66	47.5 ~ 66	55 ~ 74	58 ~ 76.5	61 ~ 79	95 ~ 114		
	Min	ton	33	33	45	45	55	70		
	I*III I	lb	72,753	72,753	99,208	99,208	121,254	154,324		
Suitable	Max	ton	50	50	55	70	100	150		
Excavator	IVIAN	lb	110,231	110,231	121,254	154,324	220,462	330,693		
	Suitable	ton	40	40	50	55	70	100		
	Sultable	lb	88,185	88,185	110,231	121,254	154,324	220,462		

 $<sup>\</sup>begin{tabular}{ll} $\times$ Above specifications are subject to change without prior notice for the improvement in quality. \end{tabular}$ 

### Skid steer loader type

Brand new JAB Hydraulic Breaker for every brands of Skid Steer Loaders, come with mounting bracket for loader Will fit ASV, Bobcats, Cat, Case, Gehl, Komatsu, Mustang, Volvo, Thomas, Takeuchi, etc.

#### **Special Features**

- · High impact energy & Low noise level
- · High performance ability
- · Low maintenance cost
- · Universal mounting frame



LIGHT WEIGHT I	BREAKE	RS	Inte	Internal Valve type (Without Accumulator)				
DESCRIPTION	Unit	JBN45SL	JBN53SL	JBN70SL	JBN75SL			
Operating Weight	Kg / lbs	190 / 419	280 / 617	382 / 842	475 / 1,047			
Tool Diameter	mm / inch	45 / 1.77	53 / 2.09	70 / 2.75	75 / 2.95			
Impact Rate	bpm	700 ~ 1,200	600 ~ 1,100	450 ~ 1,000	475 ~ 950			
Operating Pressure	bar / psi	80 ~ 100/1,160 ~ 1,450	90 ~ 120/1,305 ~ 1,740	95~ 130/1,377 ~ 1,885	100 ~ 140/1,450 ~ 2,030			
Setting Pressure	bar / psi	150 / 2,175	150 / 2,175	170 / 2,465	180 / 2,610			
Back Head Pressure	bar / psi	14/203	16 / 232	16 / 232	16 / 232			
Required Oil Flow	lpm	20 ~ 35	25 ~ 50	34 ~ 60	40 ~ 80			
Noise Level	lpm	85	86	87	88			
Valve Ass'y Position		Internal	Internal	Internal	Internal			

 $<sup>\</sup>begin{tabular}{ll} $\%$ Above specifications are subject to change without prior notice for the improvement in quality. \end{tabular}$ 

### Backhoe loader type

All Backhoe Loaders type breaker utilize a streamlined and lightweight design that sets a new standard in low weight and high power.

#### Special Features

- · High performance ability with anti-wear resistance
- · High efficient work by optimized control valve





#### LIGHT WEIGHT BREAKERS

#### Internal Valve type (Without Accumulator)

DESCRIPTION	Unit	JBN70BL	JBN75BL
Operating Weight	Kg / lbs	326 / 719	410 / 904
Tool Diameter	mm / inch	70 / 2.75	75 / 2.95
Impact Rate	bpm	450 ~ 1000	475 ~ 950
Operating Pressure	bar / psi	95 ~ 130 / 1,377 ~ 1,885	100 ~ 140 / 1,450 ~ 2,030
Setting Pressure	bar / psi	170 / 2,465	180 / 2,610
Back Head Pressure	bar / psi	16 / 232	16 / 232
Required Oil Flow	lpm	34 ~ 60	40 ~ 80
Valve Ass'y Position		Internal	Internal

 $<sup>\</sup>divideontimes$  Above specifications are subject to change without prior notice for the improvement in quality.

### **RB** SERIES

The JAB RB series breaker is based on many years of design and production experience. The use of high quality material enables JAB breakers to resist mechanical and thermic stress occurring under normal working conditions.

#### JAB Hydraulic Breaker Cross-Section Diagrams



#### Accumulator Ass'y

 $\label{thm:membrane-type} \ accumulators \ assist \ with power stroke \ and \ provide \ protection \ against \ hydraulic \ impact \ while \ the \ sealed \ nitrogen \ minimizes \ and \ guarantees \ constant \ production.$ 

#### Valve housing Ass'y

Changes of oil pressure inside the hammer often occurs during operation. This valve can block any damage from the high impact energy resulting from changes in oil pressure, protecting the excavator.

#### Cylinder Ass'y

This specially designed cylindrical cylinder is manufactured using proprietary high-quality materials developed by our company, enhancing the product's durability and ensuring reliable operation. This design is particularly effective in preventing scratches and damage, making it highly efficient in maintaining the cylinder's integrity.

#### Piston

Kinetic energy of the piston is converted into hammering energy after hitting the tool. The hammering energy transmitted to the tool breaks rocks.

#### Front Head Ass'y

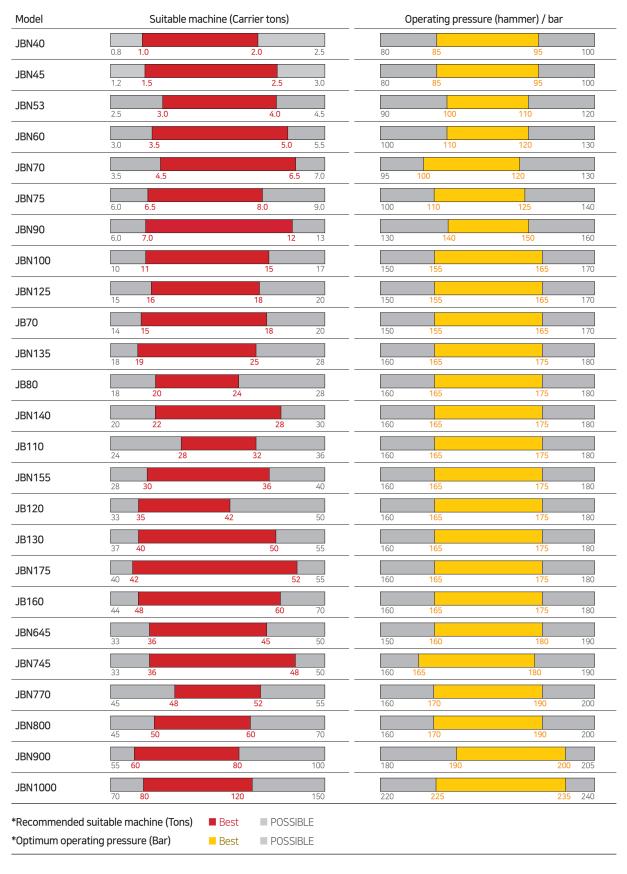
The front head supports the whole breaker. The thrust ring and thrust bush prevents shock from damaging the tool.



DESCRIF	PTION	Unit	RB15	RB18	RB21	RB25	RB26	RB28	RB39	RB48	RB68
Operating Weight		Kg	1,123	1,500	1,874	1,910	1,920	2,396	3,200	3,920	4,682
(Tool + M/T Cap	D)	lb	2,476	3,307	4,131	4,211	4,233	5,282	7,055	8,642	10,321
Main Body W	/eight	Kg	446	630	830	830	830	1,006	1,480	1,720	2,208
Tool Size		mm	115	120	130	130	135	140	160	170	180
[Diameter/Wei	ght]	Kg	82	85	100	100	110	128	178	228	3,920 4,682 8,642 10,321 1,720 2,208 170 180 228 290 150~160 150~160 2,175~2,320 2,175~2,320 190 190 2,756 2,756 300~400 250~350  190~250 220~350 50,2~66 58,1~92,4 43/94,799 52/114,640
Operating Dr	occuro	bar	135 ~ 145	135 ~ 145	135~145	135 ~ 145	135 ~ 145	135 ~ 145	140 ~ 150	150~160	150 ~ 160
Operating Pr	essure	psi	1,957 ~ 2,100	1,957 ~ 2,100	1,957 ~ 2,100	1,957 ~ 2,100	1,957 ~ 2,100	1,957 ~ 2,100	2,030~2,175	2,175 ~ 2,320	2,175 ~ 2,320
Setting Press	Setting Pressure		175	175	175	175	175	175	190	190	190
(Machine)		psi	2,538	2,538	2,538	2,538	2,538	2,538	2,755	2,756	2,756
Impact Rate		bpm	350 ~ 550	400 ~ 500	350~500	350 ~ 500	350~500	350 ~ 520	330 ~ 450	300~400	250 ~ 350
N2-Gas (Accumulator	-)	bar/psi	45/652								
Back pressur	re	bar/psi	5/72								
Dogwirod Oil I	Flow	I/min	70~110	110~150	120~160	120~160	120~160	160 ~ 230	180 ~ 240	190 ~ 250	220 ~ 350
Required Oil Flow		g/min	18.5~29	29~40	31. ~42.2	31.7 ~42.2	31.7~42.2	42.2~60.7	47.5~63.3	50.2~66	58.1~92.4
	Min	ton/lbs	13/28,660	18/39,683	18/39,683	18/39,683	18/39,683	26/57,320	33/72,753	43/94,799	52/114,640
Suitable Excavator	Max	ton/lbs	20/ 44,092	25/55,116	30/66,139	30/66,139	30/66,139	38/83,776	48/105,822	63/138,891	75/165,347
2.02.700	Suitable	ton/lbs	15/33,069	18/39,683	20/44,092	20/44,092	20/44,092	30/66,139	39/85,980	48/105,822	55/121,254

 $<sup>\</sup>ensuremath{\,\mathbb{X}\,}$  Above specifications are subject to change without prior notice.

### Suitable machine & Optimum operating pressure



### JAB always care for your success



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