IK International
Corporation

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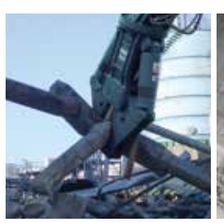
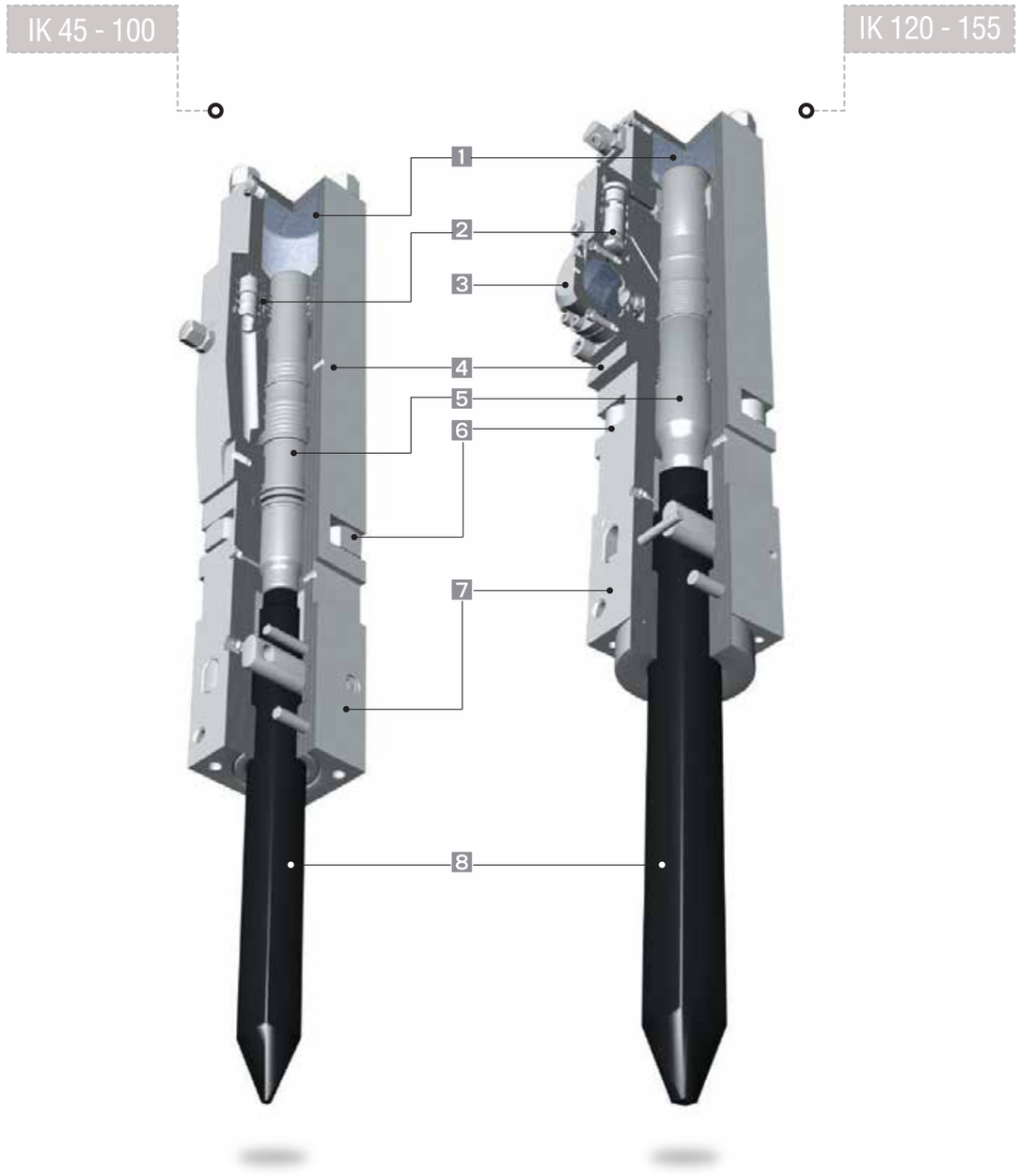
Hydraulic Breaker Series

Korean Heavy Equipments / Excavator Attachments


Structure of IK



Increased breaker durability application of abrasion resistance special steel in the lower end and flank.
Designed for effective operations with increased machinery life span.

- Shock buffer
Increased durability with unique built-in buffers, which absorb reaction in impact as well as external shock.

1 Back Head

Installed the oil connections (input /output) and the gas valve

- Maximized energy
The nitrogen gas in the back head is compressed once the piston moves upward by the oil pressure and accumulation of the energy, which is converted into the blow energy effectively as the piston descends.

2 Valve System

Easy to access of the external control valve.

- Structural Safety
The Safety increases efficiency and protection in housing and the valve provides smooth operations and controls functions of the piston.

- Cylinder Regulator
The regulator increases working efficiency with regulating the breaker power and the number of impacts by controlling moving distance of the piston.

- Valve Regulator
The Valve controls the oil flow and the rated pressure in the breaker.

3 Accumulator

The accumulator is composed of a rubber film, is compressed by the nitrogen gas in the upper part and is connected with the cylinder at the blow part.

- Shock Absorption System
The Shock absorption system enhances equipment durability in the impact and increases efficiency with oil supplements.

4 Cylinder

The minimum hydraulic system enables the breaker to maximize efficiency for reciprocation of the piston where high and low tension circulates.

- Cylinder Stability
The cylinder is manufactured by a precision machinery with the appropriate quality assurance, offering quality satisfaction.

5 Piston

The piston is installed in the cylinder, which converts the oil pressure into the impact power to break rocks.

- Durability
Quality proven materials in intensity, anti-wear, heat resistance, tenacity, anti-impact, internal pressure lengthen the life of piston.

- Post Management
The appropriate quality assurance system offers quality satisfaction.

6 Through Bolt

The 4 units of the bolts firmly fix the important components onto the breaker.

7 Front head

The front head supports the breaker and assembly with the bush, buffering shocks from the chisel.

8 Chisel

The Heat-treated tool for breaking rocks.

Moil Point Suitable for most of demolition, road construction, pier work as well as civil engineering.
Chisel (Wedge Point) Suitable for most of demolition, concrete cutting as well as tunnel construction.
Blunt Suitable for mine as well as a quarry.

Silence type

- Applicable for the full range of earthmovers
- Adjustable blow speed to improve efficiency
- Oil flow adjustable to the wide range of carriers
- Better working convenience in small places
- Replaceable tool bushing
- Simple and efficient design
- Easier and faster maintenance

Specification

Item / Model		Unit	IK 45	IK 55	IK 70	IK 75	IK 85	IK 100	IK 120	IK 135	IK 150	IK 155
Selection of Machine		ton	0.8 ~ 3	1.2 ~ 4	3.5 ~ 7	5.0 ~ 9	7.0 ~ 14	9~ 16	12~ 16	13 ~ 18	27 ~ 35	34 ~ 47
		lbs	1,764 ~ 6,614	2,646 ~ 8,818	7,700 ~ 15,400	11,000 ~ 19,800	15,400 ~ 30,800	19,842 ~ 35,274	26,400 ~ 35,200	28,660 ~ 39,683	59,525 ~ 77,162	74,957~103,617
*Operating Weight (Mount Cap+TOOL)		kg	134	158	346	375	498	865	845	1,210	2,100	2,856
		lbs	295	348	763	827	1,098	1,907	1,863	2,668	4,630	6,296
Required Oil Flow Rate		l/min	20 ~ 35	25 ~ 40	40 ~ 70	45 ~ 90	55 ~ 100	80 ~ 100	80 ~ 120	90 ~ 120	160 ~ 190	190 ~ 250
Setting Pressure (of Machine)		bar	150	150	170	170	195	210	210	210	230	240
		psi	2,176	2,176	2,466	2,466	2,828	3,046	3,046	3,046	3,336	3,481
Operating pressure (of Breaker / Hammer)		bar	90 ~ 120	90 ~ 120	110 ~ 140	110 ~ 140	130 ~ 160	150 ~ 170	150 ~ 170	150 ~ 170	160 ~ 180	170 ~ 190
		psi	1,305~ 1,740	1,305 ~ 1,740	1,595 ~ 2,030	1,595 ~ 2,030	1,885 ~ 2,320	2,176 ~ 2,466	2,176 ~ 2,466	2,176 ~ 2,466	2,320 ~ 2,610	2,466 ~ 2,756
Impact Rate		bpm	600 ~ 1,000	550 ~ 950	500 ~900	400 ~ 850	400 ~ 800	450 ~ 700	450 ~ 700	400 ~ 900	360 ~ 700	240 ~ 500
Rod/Chisel	Dia.	mm	46	53	68	75	85	100	100	120	150	155
		inch	1.81	2.09	2.68	2.95	3.35	3.94	3.94	4.72	5.91	6.10
	Length	mm	500	580	690	750	800	1,000	1,000	1,100	1,300	1,500
		inch	19.69	22.83	27.17	29.53	31.50	39.37	39.37	43.31	51.18	59.06
Impact Energy Class	General	kgf-m	25	35	75	90	140	265	265	280	625	1,040
		joule	245	343	735	883	1,373	2,599	2,599	2,746	6,129	10,199

Above specifications are subject to change without prior notice for quality improvement.

Vertical type

- Applicable for the full range of earthmovers
- Adjustable blow speed to improve efficiency
- Oil flow adjustable to the wide range of carriers
- Better working convenience in small places
- Replaceable tool bushing
- Simple and efficient design
- Easier and faster maintenance

Specification

Item / Model		Unit	IK 45	IK 55	IK 70	IK 75	IK 85	IK 120	IK 135	IK 140	IK 150	IK 155
Selection of Machine		ton	0.8 ~ 3.0	1.2 ~ 4.0	3.0 ~ 5.0	4.0 ~ 9.0	6.0 ~ 11	13~ 18	18~ 26	25 ~ 30	27 ~ 35	34 ~ 47
		lbs	1,764 ~ 6,614	2,646 ~ 8,818	6,614 ~11,023	8,818 ~ 19,842	13,228 ~ 24,251	28,660 ~ 39,683	39,684 ~ 57,320	55,116~ 66,139	59,525 ~ 77,162	74,957~103,617
*Operating Weight (Mount Cap+TOOL)		kg	112	150	330	388	505	1,325	1,720	2,250	2,300	3,150
		lbs	247	331	728	855	1,113	2,921	3,792	4,960	5,071	6,945
Required Oil Flow Rate		l/min	20 ~ 30	25 ~ 40	30 ~ 45	40 ~ 80	45 ~ 85	90 ~ 120	125 ~ 150	160 ~ 190	160 ~ 190	190 ~ 250
Setting Pressure (of Machine)		bar	150	150	170	170	195	210	210	230	230	240
		psi	2,176	2,176	2,466	2,466	2,828	3,046	3,046	3,336	3,336	3,481
Operating pressure (of Breaker / Hammer)		bar	80 ~ 100	90 ~ 120	95 ~ 130	100 ~ 130	130 ~ 150	150 ~ 170	160 ~ 180	160 ~ 180	160 ~ 180	170 ~ 190
		psi	1,160~ 1,595	1,305 ~ 1,740	1,378 ~ 1,885	1,450 ~ 1,885	1,885 ~ 2,176	2,176 ~ 2,466	2,321 ~ 2,611	2,321 ~ 2,611	2,321 ~ 2,611	2,466 ~ 2,756
Impact Rate		bpm	600 ~ 1,000	550 ~ 950	500 ~900	450 ~ 950	400 ~ 800	450 ~ 900	400 ~ 800	350 ~ 750	360 ~ 700	240 ~ 500
Rod/Chisel	Dia.	mm	46	53	68	75	85	120	135	140	150	155
		inch	1.81	2.09	2.68	2.95	3.35	4.72	5.31	5.51	5.91	6.10
	Length	mm	500	580	690	750	800	1,100	1,200	1,300	1,300	1,500
		inch	19.69	22.83	27.17	29.53	31.50	43.31	47.24	51.18	51.18	59.06
Impact Energy Class	General	kgf-m	25	35	75	90	140	280	430	590	625	1,040
		joule	245	343	735	883	1,373	2,746	4,217	5,786	6,129	10,199

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Horizontal type

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		lbs	1,764 ~ 6,614	2,646 ~ 8,818	6,614 ~ 11,023	8,818 ~ 19,842	13,228~ 24,251	19,842 ~ 35,274	28,660 ~ 39,683	39,683 ~ 57,320	59,525 ~ 77,162	74,957 ~ 103,617
*Operating Weight (Mount Cap+TOOL)		kg	134	158	346	375	498	845	1,210	1,700	2,100	2,856
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Required Oil Flow Rate		l/min	20 ~ 30	25 ~ 40	30 ~ 45	40~ 80	45 ~ 85	80 ~ 100	90 ~ 120	125 ~ 150	160 ~ 190	160 ~ 250
Setting Pressure (of Machine)		bar	150	150	170	170	195	210	210	210	230	240
		psi	2,176	2,176	2,466	2,466	2,828	3,046	3,046	3,046	3,336	3,481
Operating pressure (of Breaker / Hammer)		bar	80 ~ 110	90 ~ 120	95 ~ 130	100 ~ 130	130 ~ 150	150 ~ 170	150 ~ 170	160 ~ 180	160 ~ 180	170 ~ 190
		psi	600 ~ 1,000	550 ~ 950	500 ~900	450 ~ 950	400 ~ 800	450 ~ 700	400 ~ 900	400 ~ 800	2,320 ~ 2,610	2,466 ~ 2,756
Impact Rate		bpm	600 ~ 1,000	550 ~ 950	500 ~900	450 ~ 950	400 ~ 800	450 ~ 700	400 ~ 900	400 ~ 800	360 ~ 700	240 ~ 500
Rod/Chisel	Dia.	mm	46	53	68	75	85	100	120	135	150	155
		inch	1.81	2.09	2.68	2.95	3.35	3.94	4.72	5.31	5.91	6.1
	Length	mm	500	580	690	750	800	1,000	1,100	1,200	1,300	1,500
		inch	19.69	22.83	27.17	29.53	31.50	39.37	43.31	47.24	51.18	59.06
Impact Energy Class	General	kgf-m	25	35	75	90	140	265	280	430	625	1,040
		joule	245	343	735	883	1,373	2,599	2,746	4,217	6,129	10,199

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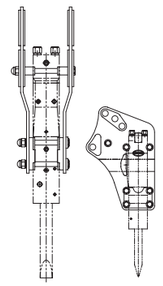
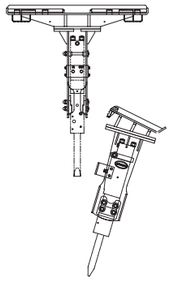
Backhoe, Skid Steer Loader type





Backhoe type

- Backhoe type is designed for backhoe loader to avoid a collision when using the arm of backhoe loader.
- "According to various angles, there are 3 holes to fix it properly and to apply to variable standards."
- Backhoe type is improved for backhoe loader to meet customer requirement.

Skid loader type

- Applied to the special mounting cap of the exclusive skid loader.
- Skid loader type is improved for skid loader to operate it easily and to meet customer requirement.

Specification

Item / Model		Unit	IK 45	IK 55	IK 70	IK 75	IK 85
Selection of Machine		ton	0.8 ~ 3.0	1.2 ~ 4.0	3.0 ~ 5.0	4.0 ~ 9.0	6.0 ~ 11.0
		lbs	1,764 ~ 6,614	2,646 ~ 8,818	6,614 ~11,023	8,818 ~ 19,842	13,228 ~ 24,251
Required Oil Flow Rate		l/min	20,0 ~ 30,0	25,0 ~ 40,0	30,0 ~ 45,0	40,0 ~ 80,0	45,0 ~ 85,0
		gal/minUS	5,28 ~ 7,93	6,60 ~ 10,57	7,93 ~ 11,89	10,57 ~ 21,13	11,89 ~ 22,45
Setting Pressure (of Machine)		bar	150	150,0	170,0	170,0	195,0
		Mpa	15	15,0	17,0	17,0	19,5
		psi	2,175,51	2,175,51	2,465,57	2,465,57	2,828,16
Operating pressure (of Breaker / Hammer)		bar	80,0 ~ 110,0	90,0 ~ 120,0	95,0 ~ 130,0	100,0 ~ 130,0	130,0 ~ 150,0
		Mpa	8,0 ~ 11,0	9,0 ~ 12,0	9,5 ~ 13,0	10,0 ~ 13,0	13,0. ~ 15,0
		psi	1,160,27 ~ 1,595,37	1,305,30 ~ 1,740,41	1,377,82 ~ 1,885,44	1,450,34 ~ 1,885,44	1,885,44 ~ 2,175,51
Impact Rate		bpm	600 ~ 1,000	550 ~ 950	500 ~900	450 ~ 950	400 ~ 800
Rod/Chisel	Dia.	mm	46	53	68	75	85
		inch	1.81	2.09	2.68	2.95	3.35
	Length	mm	500	580	690	750	800
		inch	19.69	22.83	27.17	29.53	31.50
Impact Energy Class	General	kg f-m	25	35	75	90	140
		joule	245	343	735	883	1,373

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