



BREAKERS

HEB SERIES

Maximizing productivity and reliability

Minimizing maintenance and downtime

Right tools for all carriers and applications



Consider AEM's tool energy rating

Why develop the tool energy rating

Assessing and comparing hydraulic breakers have never been easier or more accurate than the tool energy developed by the mounted breaker manufacture bureau(MBMB) of the AEM which is U.S based international trade group serving the business needs of construction equipment manufacturers and construction services providers. The AEM tool energy rating is accepted by hydraulic breaker manufacturers from Finland, France, Germany, Italy, Japan, Korea, Sweden and the United States. HYUNDAI CORE MOTION has been accredited to self-certify the tool energy rating obtained through test processes complying with "AEM Measuring Guide."

High impact energy by AEM tool energy rating

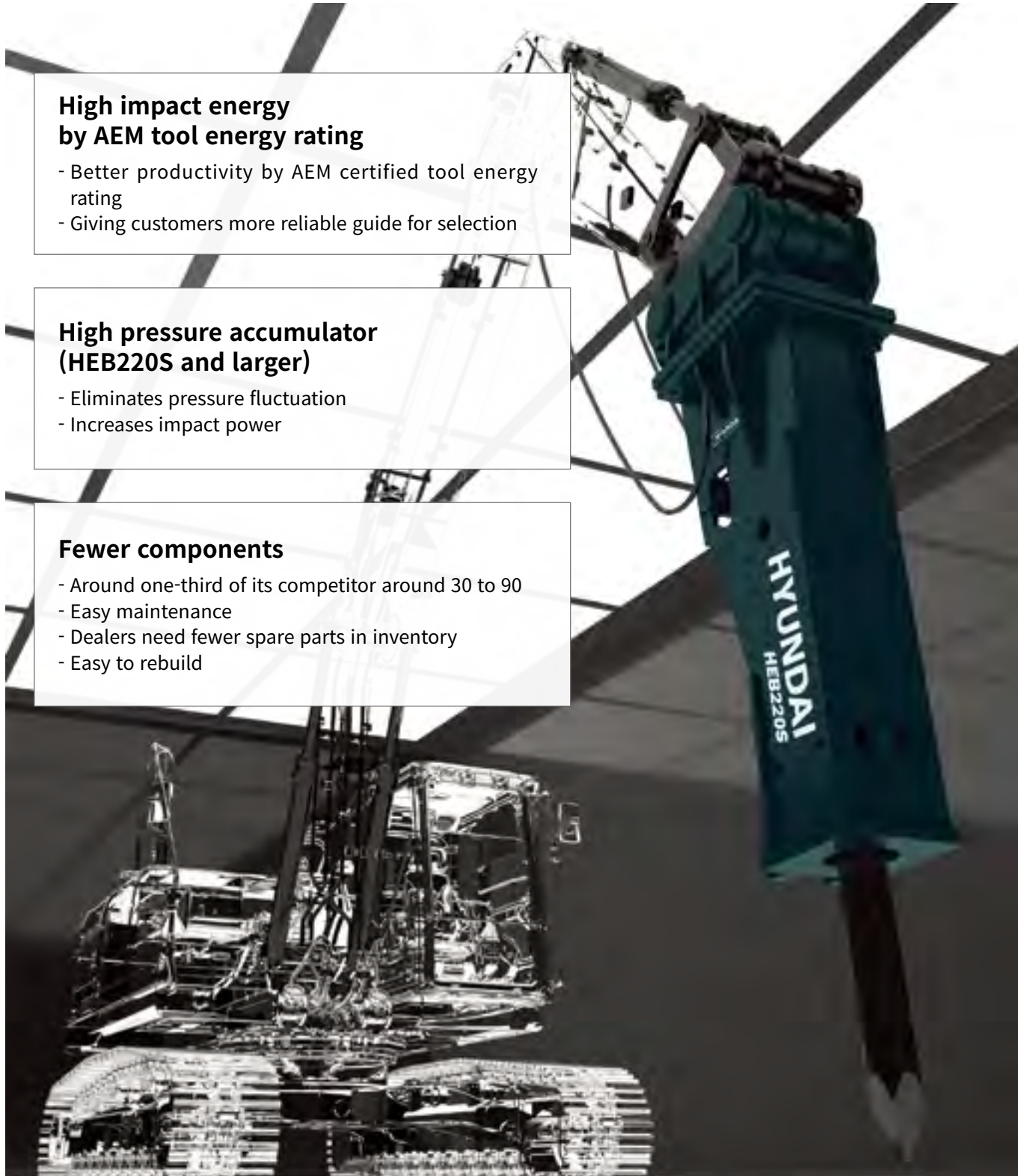
- Better productivity by AEM certified tool energy rating
- Giving customers more reliable guide for selection

High pressure accumulator (HEB220S and larger)

- Eliminates pressure fluctuation
- Increases impact power

Fewer components

- Around one-third of its competitor around 30 to 90
- Easy maintenance
- Dealers need fewer spare parts in inventory
- Easy to rebuild



ADVANCED TECHNOLOGY

Through bolt

- Reduces internal torsion stress to increase faster life

Full box enclosure

- No rigid side bolts
- Low maintenance cost
- Extremely durable welded structure
- Reduces noise
- Hammer is completely protected and quieter
- Perfect sealed enclosure by dust Protector & Seal plugs (premium series only)

Wide and light-weight cover

- Noise insulation
- Dust protection, Easy maintenance

Easy maintenance

- Fewer components
- Wide and appropriate opening

High quality working tool

- Optimized by high grade steel and heat treatment

Perfect cushion damper

- Optimal damping system made of high quality elastomer
- Minimizing recoil shock induced by impact
- Reduces noise and vibration

Unique valve design

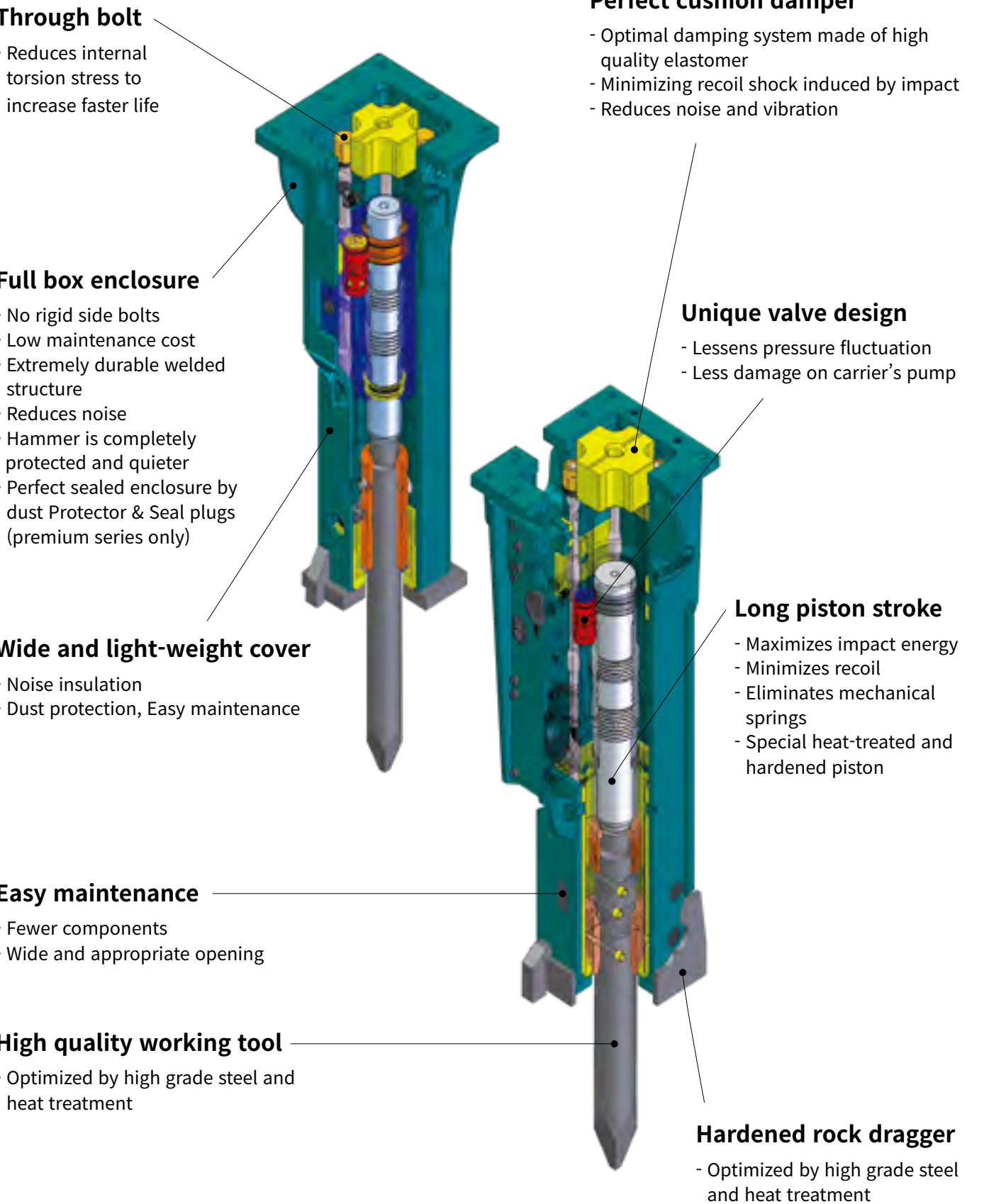
- Lessens pressure fluctuation
- Less damage on carrier's pump

Long piston stroke

- Maximizes impact energy
- Minimizes recoil
- Eliminates mechanical springs
- Special heat-treated and hardened piston

Hardened rock dragger

- Optimized by high grade steel and heat treatment



BOX HOUSING TYPE

Prime series are silenced type breakers that are developed for environment and human health according to international trend of noise restriction.

By wearing a hard boots of reinforced rock dragger and bracket, prime series provides much innovative durability with maximum power than ever. The benefits of these series are dual speed control system, hard boots(HEB140S and larger), anti-blank firing function, auto stop & auto start and single high pressure accumulator(HEB220S and larger)



APPLICATION

○ : Standard, △ : Option, × : N/A

Contents	HEB010/P		HEB020/P		HEB030/P		HEB040/P		HEB050/P		HEB060/P		HEB100/P		HEB140S	HEB140P	HEB220S	HEB220P	HEB310/P		HEB400/P		HEB500/P		HEB700P	
	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	P	
Grade	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	P	
Accumulator(o,x)	×		×		×		×		×		×		×		×		○	○	○	○	○	○	○	○	○	○
Dual speed control(o,x)	×		×		×		×		×		×		×		×		○	○	○	○	○	○	○	○	○	○
Anti-blank firing func.(o,x)	×		×		×		×		×		×		×		×		○	○	○	○	○	○	○	○	○	○
Under water(o,x)	×		×		×		×		×		×		×		×		○	○	○	○	○	○	○	○	○	○
Auto greasing kit (o,x)	×		×		×		×		×		×		×		×		△	△	△	△	△	△	△	△	△	△

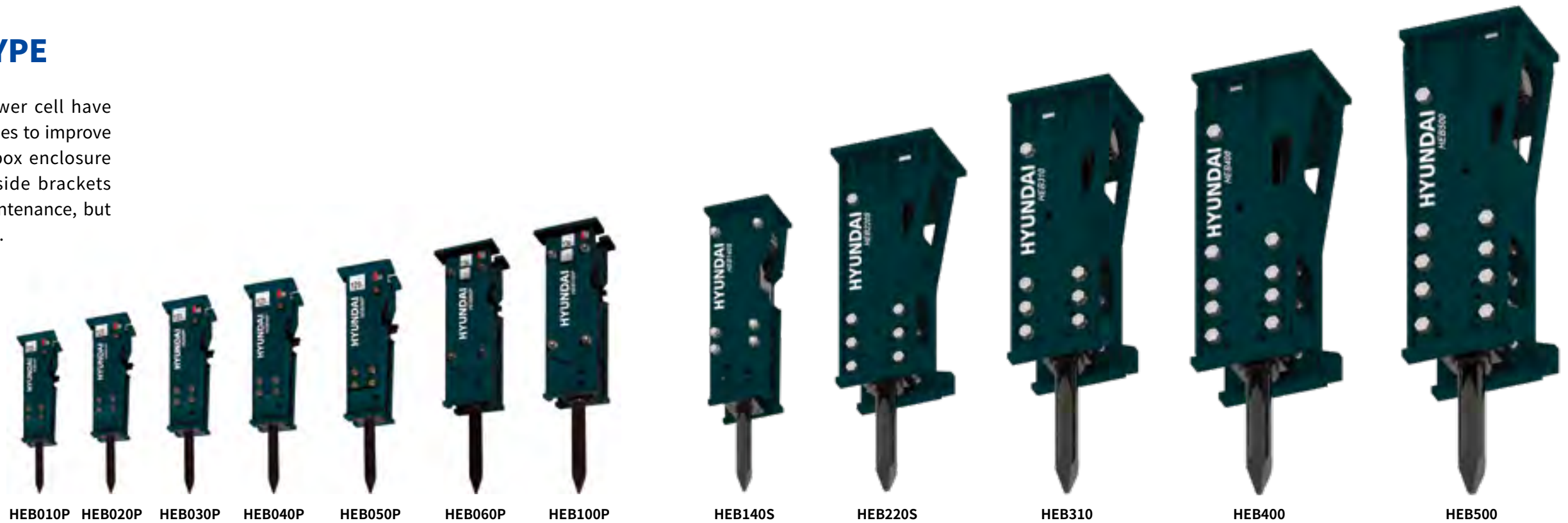
SPECIFICATION

Specification	Unit	Grade	HEB010/P	HEB020/P	HEB030/P	HEB040/P	HEB050/P	HEB060/P	HEB100/P	HEB140S/P	HEB220S/P	HEB310/P	HEB400/P	HEB500/P	HEB700P	
Working weight	kg	S	106	106	129	161	299	370	504	691	1,530	2,109	2,843	3,598		
		P	116	116	144	243	314	468	552	1,148	1,799	2,461	3,433	4,119	6,484	
Overall length	mm	S	1,172	1,172	1,260	1,289	1,630	1,865	1,983	2,267	2,796	3,246	3,379	3,705		
		P	1,215	1,215	1,257	1,403	1,682	1,933	2,066	2,375	2,935	3,281	3,531	3,735	4,236	
Oil flow	lpm	S	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110	80 ~ 140	130 ~ 180	170 ~ 240	200 ~ 280	230 ~ 330		
		P	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110	80 ~ 140	130 ~ 180	170 ~ 240	200 ~ 280	230 ~ 330	320 ~ 420	
Operating pressure	bar	S	90 ~ 110	70 ~ 100	90 ~ 110	110 ~ 140	140 ~ 170	140 ~ 170	150 ~ 170	160 ~ 180	150 ~ 180	150 ~ 185	160 ~ 185	165 ~ 185		
		P	100 ~ 130	100 ~ 130	100 ~ 130	110 ~ 140	130 ~ 170	130 ~ 170	140 ~ 180	140 ~ 180	160 ~ 180	165 ~ 185	165 ~ 185	165 ~ 185	165 ~ 185	
Impact rate	low speed	bpm	S									350 ~ 500	310 ~ 450	300 ~ 410	250 ~ 370	
			P									380 ~ 700	330 ~ 500	310 ~ 490	330 ~ 450	250 ~ 370
	high speed	bpm	S	600 ~ 1,200	700 ~ 1,200	550 ~ 1,000	600 ~ 1,000	450 ~ 950	500 ~ 900	400 ~ 850	450 ~ 750	450 ~ 600	400 ~ 560	380 ~ 540	300 ~ 420	
			P	700 ~ 1,200	700 ~ 1,200	550 ~ 1,000	600 ~ 1,000	550 ~ 1,000	520 ~ 1,000	500 ~ 1,000	550 ~ 850	430 ~ 650	400 ~ 680	420 ~ 600	350 ~ 500	370 ~ 480
Chisel diameter	mm	S	45	45	50	55	68	75	93	98	135	150	165	175		
		P	45	45	50	58	68	80	93	105	135	150	165	180	205	
Applicable Carrier Range (Optimal range)	ton	All	0.7 ~ 2.5	1.0 ~ 4.0	1.5 ~ 4.5	2.5 ~ 6.0	3.5 ~ 8.0	5.0 ~ 11.0	7.0 ~ 15.0	12 ~ 20	20 ~ 30	26 ~ 35	32 ~ 45	40 ~ 70	60 ~ 110	
			0.7 ~ 1.2	1.0 ~ 2.5	1.5 ~ 3.0	2.5 ~ 4.5	4.0 ~ 6.0	6.0 ~ 8.0	8.0 ~ 12.0	12 ~ 16/12 ~ 18	20 ~ 26	26 ~ 32	32 ~ 40	40 ~ 60	65 ~ 85	

※ Specifications above are subject to change without notice for quality improvement.

OPEN HOUSING TYPE

The new design and color of power cell have been adapted for this standard series to improve protection of power cell in non-box enclosure breaker. Round open and long side brackets offer not only access for easy maintenance, but also better protection of power cell.



APPLICATION

○ : Standard, △ : Option, × : N/A

Contents	HEB010/P		HEB020/P		HEB030/P		HEB040/P		HEB050/P		HEB060/P		HEB100/P		HEB140S	HEB220S	HEB310	HEB400	HEB500	
	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	S	S	S	S	
Grade																				
Accumulator	×		×		×		×		×		×		×		×	○	○	○	○	○
Dual speed control	×		×		×		×		×		×		×		×	○	○	○	○	○
Anti-blank firing func.	×		×		×		×		×		×		×		×	○	○	○	○	○
Under water	×		×		×		×		×		×		×		×	○	○	○	○	○
Auto greasing kit	×		×		×		×		×		×		×		×	△	△	△	△	△

SPECIFICATION

Specification	Unit	Grade	HEB010/P	HEB020/P	HEB030/P	HEB040/P	HEB050/P	HEB060/P	HEB100/P	HEB140S	HEB220S	HEB310	HEB400	HEB500	
Working weight	kg	S	109	109	131	167	299	371	497	725	1,573	2,193	3,109	3,811	
		P	116	116	142	211	330	455	549						
Overall length	mm	S	1,181	1,181	1,270	1,316	1,635	1,850	1,985	80 ~ 140	130 ~ 180	170 ~ 240	200 ~ 280	230 ~ 330	
		P	1,207	1,207	1,242	1,390	1,674	1,916	2,049						
Oil flow	lpm	S	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110	2,270	2,829	3,285	3,430	3,749	
		P	15 ~ 25	20 ~ 35	25 ~ 35	30 ~ 50	35 ~ 65	45 ~ 90	60 ~ 110						
Operating pressure	bar	S	90 ~ 110	70 ~ 100	90 ~ 110	110 ~ 140	140 ~ 170	140 ~ 170	150 ~ 170	160 ~ 180	150 ~ 180	150 ~ 185	160 ~ 185	165 ~ 185	
		P	100 ~ 130	100 ~ 130	100 ~ 130	110 ~ 140	130 ~ 170	130 ~ 170	170 ~ 180						
Impact rate	bpm	low speed	S								350 ~ 500	310 ~ 450	300 ~ 410	250 ~ 370	
			P												
		high speed	S	600 ~ 1,200	700 ~ 1,200	550 ~ 1,000	600 ~ 1,000	450 ~ 950	500 ~ 900	400 ~ 850	450 ~ 750	450 ~ 600	400 ~ 560	380 ~ 540	300 ~ 420
			P	700 ~ 1,200	700 ~ 1,200	550 ~ 1,000	550 ~ 1,000	550 ~ 1,000	520 ~ 1,000	500 ~ 1,000					
Chisel diameter	mm	S	45	45	50	55	68	75	93	98	135	150	165	175	
		P	45	45	50	58	68	80	93						
Applicable Carrier Range (Optimal range)	ton	All	0.7 ~ 2.5	1.0 ~ 4.0	1.5 ~ 4.5	2.5 ~ 6.0	3.5 ~ 8.0	5.0 ~ 11.0	7.0 ~ 15.0	12 ~ 20	20 ~ 30	26 ~ 35	32 ~ 45	40 ~ 70	
			0.7 ~ 1.2	1.0 ~ 2.5	2.5 ~ 4.5	2.5 ~ 4.5	4.0 ~ 6.0	6.0 ~ 8.0	8.0 ~ 12.0	12 ~ 16	20 ~ 26	26 ~ 32	32 ~ 40	40 ~ 60	

※ Specifications above are subject to change without notice for quality improvement.

SKIDSTEER LOADER

Skidsteer Loader series are developed for Skidsteer loader to meet the market requirement of higher impact energy and optimal performance.



BACKHOE LOADER

Backhoe Loader series are developed for Backhoe loader to meet the required design for transportation.



BREAKER

• SPECIFICATION

Specification		Unit	Grade	HEB040SL/PSL	HEB050BL/PBL	HEB060BL/PBL
Working weight	kg	S	276	278	352	
		P	255	312	400	
Overall length	mm	S	1,285	1,597	1,728	
		P	1,352	1,585	1,767	
Oil flow	lpm	S	50 ~ 75	35 ~ 65	45 ~ 90	
		P	50 ~ 75	35 ~ 65	45 ~ 90	
Operating pressure	bar	S	110 ~ 140	140 ~ 170	140 ~ 170	
		P	110 ~ 140	130 ~ 170	130 ~ 170	
Impact rate	low speed	S			-	
		P				
	high speed	S	550 ~ 1,000	450 ~ 950	500 ~ 900	
		P	550 ~ 1,000	550 ~ 1,000	520 ~ 1,000	
Chisel diameter	mm	S	55	68	75	
		P	58	68	80	
Applicable Carrier Range (Optimal range)	ton	All	2.5 ~ 8.0	3.5 ~ 8.0	5.0 ~ 11.0	
			4.0 ~ 6.0	4.0 ~ 6.0	6.0 ~ 8.0	

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Features and benefits

Proven Working Principle (oil and gas assist)

- Pressurized nitrogen gas is the main power source, to operate with less demand on the carrier's hydraulic system.

Fewer Components

- Around one-third as its competitor, around 30 to 90 items depending on model
- Easy maintenance
- Dealers need fewer spare parts in inventory
- Easy to rebuild

Dual speed Control

- Control blow frequency according to hardness of rock

Anti-blank firing function

- Significantly reduces blank blow induced failures (HEB220S and larger)

Underwater application

- Allowing hammer submerged in water (HEB140P and larger)

Option

- Auto dispense of lubricating paste, each time hammer is operating

Swivel Joint

- Reduces vibration induced hose failure.

Centralized Lubricating system

- Enable to utilize centralized auto grease system

Increased life time of dampers and wear plates

- This gives longer maintenance interval.

Rugged Construction

- Jigsaw shaped main bracket design achieves better resilience from external force. This ensure sound and long lasting body structure.

BREAKER SELECTION GUIDE

Breaker Selection Guide

(applicable carrier range and minimum required hydraulic power)

Model	Weight of carrier in tonnes (t)		Weight of carrier in kilopounds (kibs)		Hydraulic power of carrier			
	Minimum Oil Flow (lpm)	Minimum Oil Flow (gpm)	Minimum Pressure (bar)	Minimum Pressure (psi)				
Mini Size	HEB010P	0.7 - 2.5 1.57 - 5.5	15	160				
	HEB020P	1.0 - 4.0 2.2 - 8.8	20	180				
	HEB030P	1.5 - 4.5 3.3 - 9.9	25	180				
	HEB040P	2.5 - 6.0 5.5 - 13.2	30	180				
Small Size	HEB050P	3.5 - 8 7.7 - 18	35	200				
	HEB060P	5 - 11 11 - 24	45	210				
	HEB100P	7 - 15 15 - 33	60	210				
Medium Size	HEB140P	12 - 20 26 - 44	80	220				
	HEB220P	20 - 30 44 - 66	130	220				
Large Size	HEB310P	26 - 35 57 - 77	170	230				
	HEB400P	32 - 45 71 - 99	200	230				
	HEB500P	40 - 70 88 - 154	230	230				
Super Size	HEB700P	60 - 110 132 - 242	320	230				

This guide is valid for the normal excavators equipped with standard boom-arm.