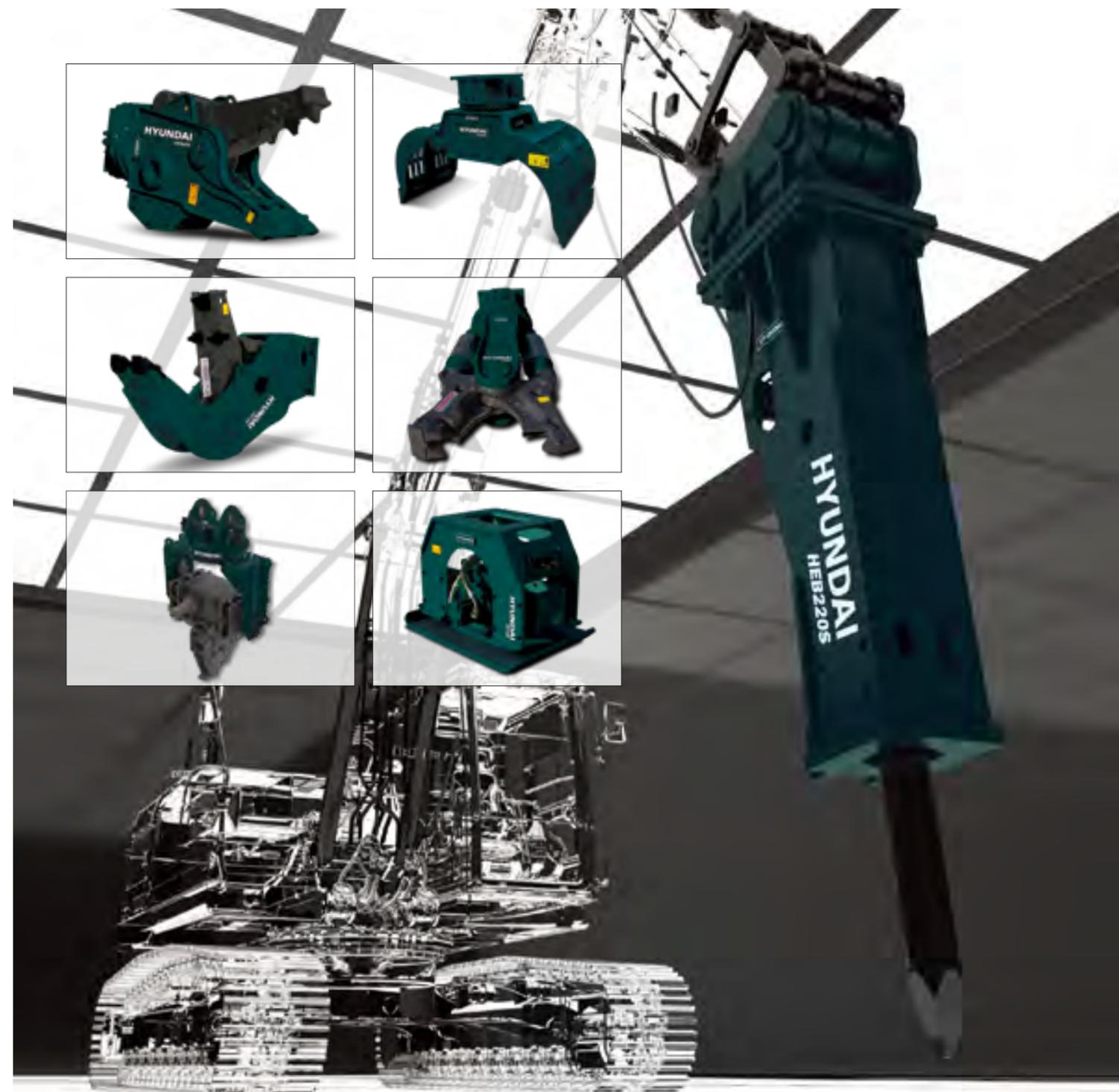


HYUNDAI ATTACHMENTS

building a
comfortable
tomorrow



C O N T E N T S

Overview

Product Line up

▪ Breaker

- HEB Series
- HDB Series
- HTB Series
- HRB Series

▪ Multiprocessor

▪ Pulverizer

▪ Grab

▪ Compactor

▪ Vibro Attachment

- Vibro Hammer
- Vibro Ripper

Breaker



Model		
	Standard	Premium
Mini Size	HEB010	HEB010P
	HEB020	HEB020P
	HEB030	HEB030P
	HEB040	HEB040P
Small Size	HEB050	HEB050P
	HEB060	HEB060P
	HEB100	HEB100P
Medium Size	HEB140S	HEB140P
	HEB220S	HEB220P
Large Size	HEB310	HEB310P
	HEB400	HEB400P
Super Size	HEB500	HEB500P
		HEB700P

Multiprocessor



Model
HEM130 HEM220
HEM320 HEM400

AVAILABLE JAWS

CRUSHING	DEMOLITION	PULVERIZING
SHEARING	UNIVERSAL	MOBILE

Pulverizer



Model

Fixed Type	
HEP080	HEP220
HEP160	HEP320
HEP190	HEP420
Rotatable Type	
HEP160R	HEP350R
HEP200R	HEP450R
HEP250R	

Compactor



Model

HEC050N	HEC100	HEC150
HEC200	HEC300	

Grab



Model

HEG030	HEG050	HEG080
HEG140	HEG200	HEG300

Vibro Ripper



Model

HSR250
HSR300
HSR400
HSR500
HSR800

Vibro Hammer



Standard

HSH250
HSH300
HSH400



Auto tilting

HSH250T
HSH300T
HSH400T



Side grip

HSH250SG
HSH300SG



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

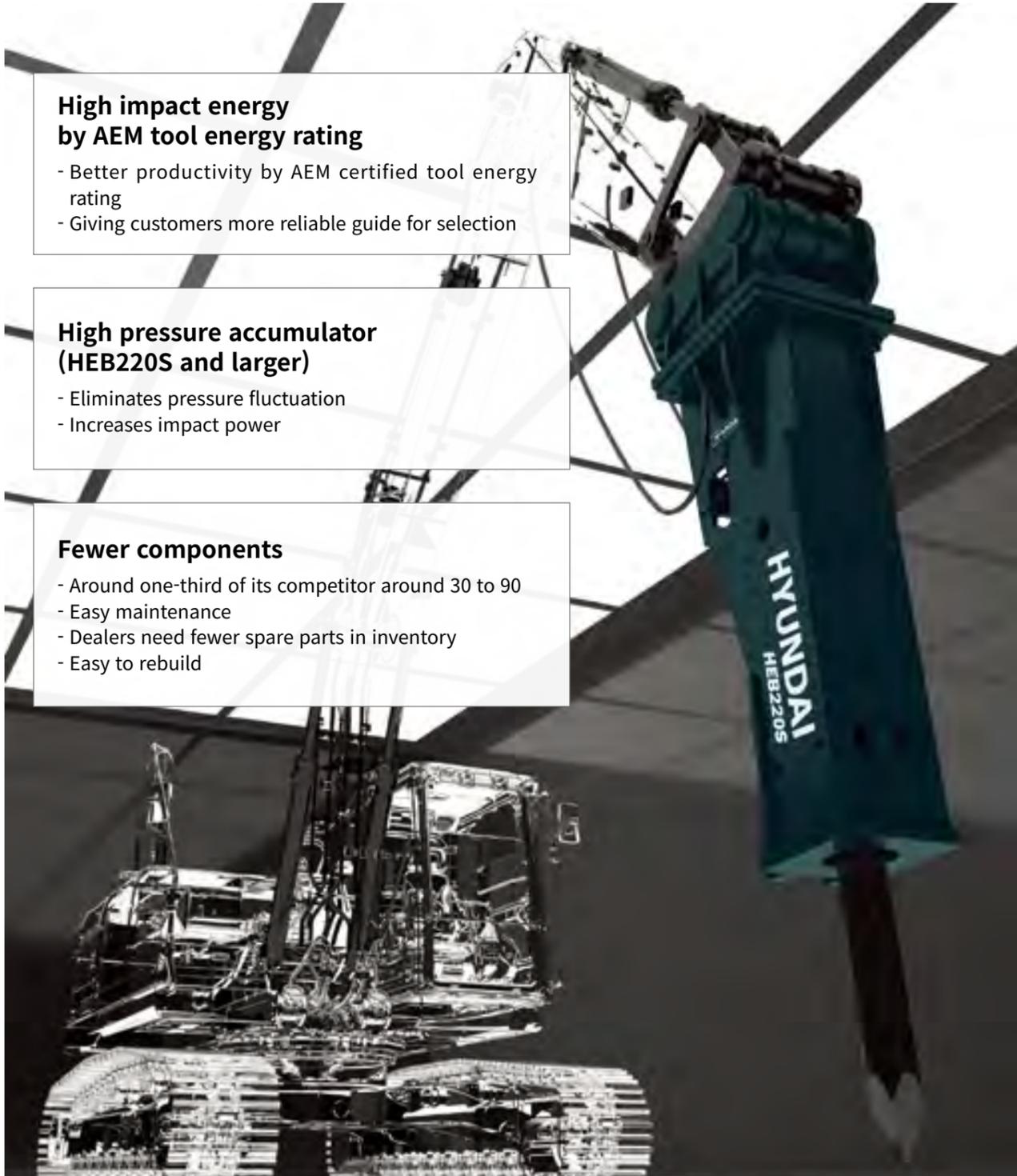
- Better productivity by AEM certified tool energy rating
- Giving customers more reliable guide for selection

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

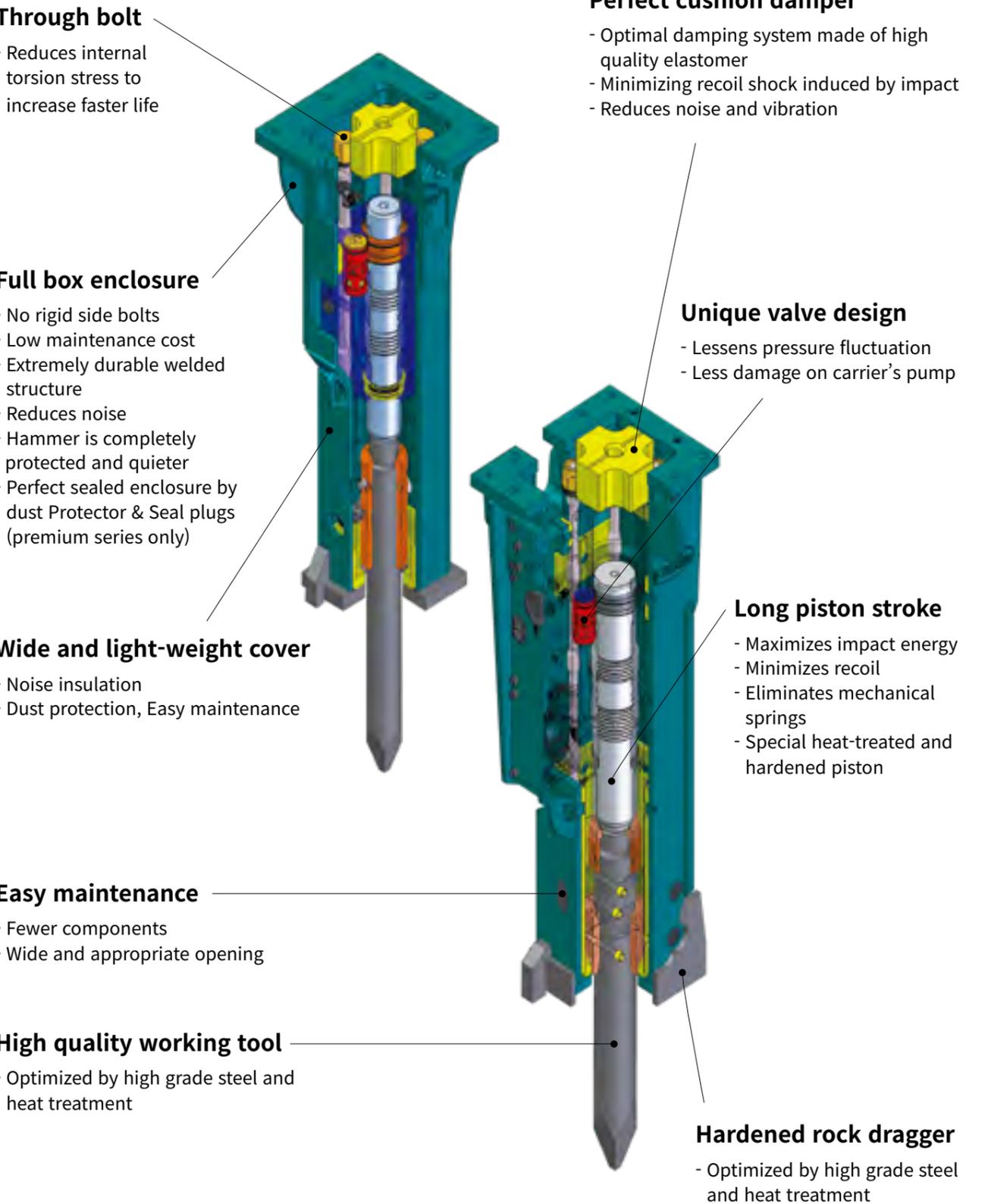
- Lessens pressure fluctuation
- Less damage on carrier's pump

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)	×		×		×		×		×		×		×		×		△	△	△	△	△	△	△	△	△

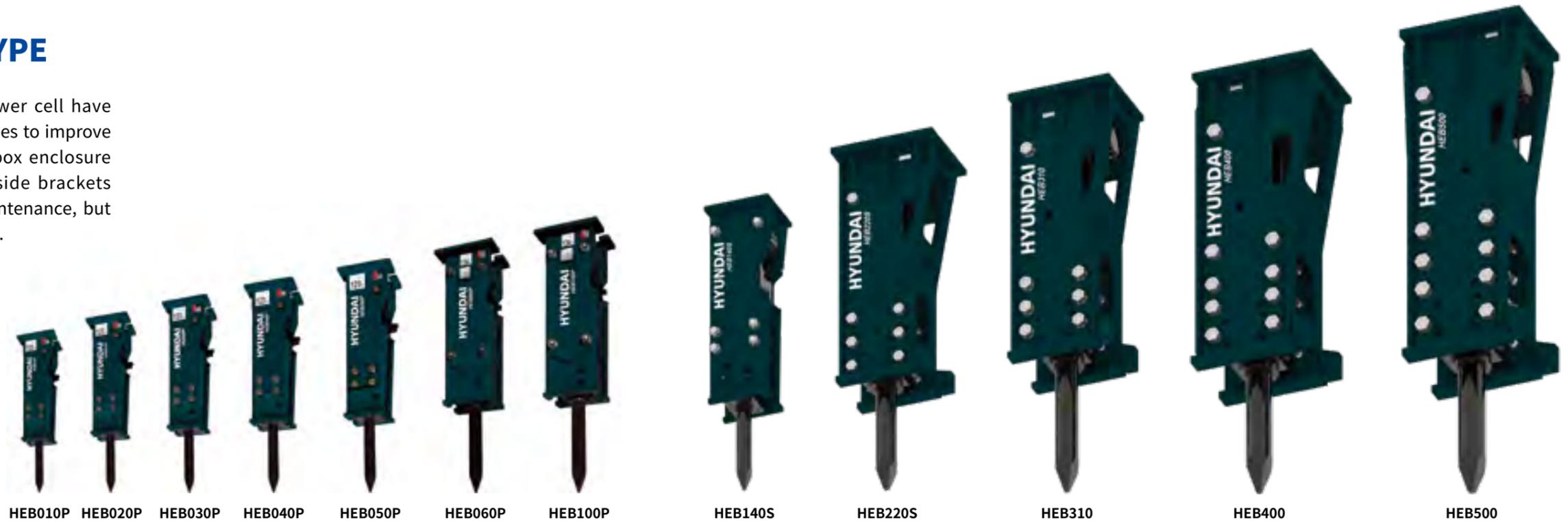
SPECIFICATION

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
	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
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.

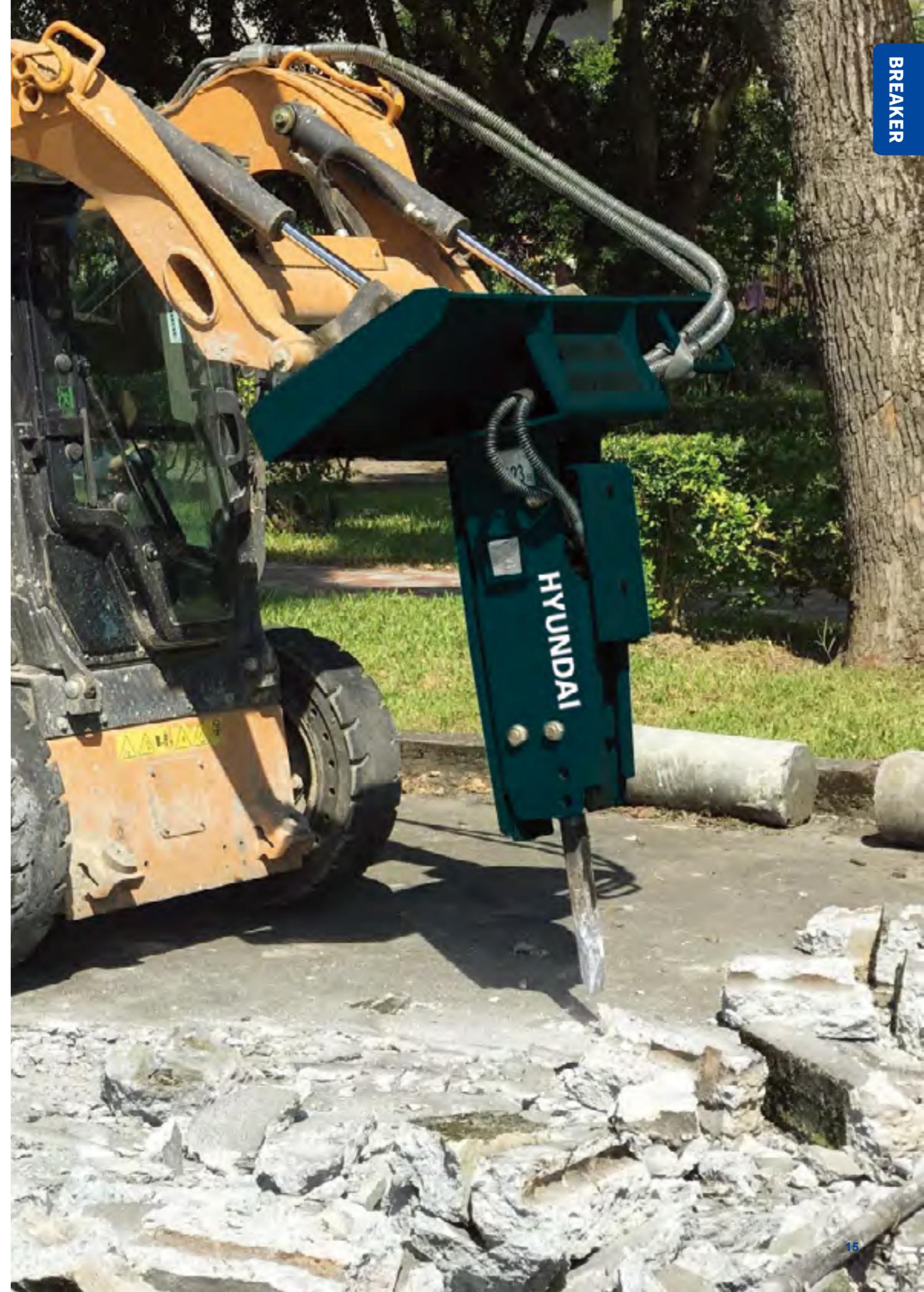
SKIDSTEER LOADER

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.



• 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	ton	All	2.5 ~ 8.0	3.5 ~ 8.0	5.0 ~ 11.0	
(Optimal range)			4.0 ~ 6.0	4.0 ~ 6.0	6.0 ~ 8.0	

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

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	Maximum	Minimum	Maximum	Minimum Oil Flow (lpm / gpm)	Minimum Pressure (bar / psi)
Mini Size	HEB010P	0.7 - 2.5	1.57 - 5.5	1.5 - 5.5	15 (4.0)	160 (2,300)
	HEB020P	1.0 - 4.0	2.2 - 8.8	2.2 - 8.8	20 (5.3)	180 (2,600)
	HEB030P	1.5 - 4.5	3.3 - 9.9	3.3 - 9.9	25 (6.6)	180 (2,600)
	HEB040P	2.5 - 6.0	5.5 - 13.2	5.5 - 13.2	30 (7.9)	180 (2,600)
Small Size	HEB050P	3.5 - 8	7.7 - 18	7.7 - 18	35 (9.2)	200 (2,900)
	HEB060P	5 - 11	11 - 24	11 - 24	45 (12)	210 (3,000)
	HEB100P	7 - 15	15 - 33	15 - 33	60 (16)	210 (3,000)
Medium Size	HEB140P	12 - 20	26 - 44	26 - 44	80 (21)	220 (3,200)
	HEB220P	20 - 30	44 - 66	44 - 66	130 (34)	220 (3,200)
Large Size	HEB310P	26 - 35	57 - 77	57 - 77	170 (45)	230 (3,300)
	HEB400P	32 - 45	71 - 99	71 - 99	200 (53)	230 (3,300)
	HEB500P	40 - 70	88 - 154	88 - 154	230 (61)	230 (3,300)
Super Size	HEB700P	60 - 110	132 - 242	132 - 242	320 (85)	230 (3,300)

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



BREAKERS

HDB SERIES

Maximizing productivity and reliability

Minimizing maintenance and downtime

Right tools for all carriers and applications

The best choice

HDB Series

BREAKER

- ✓ Powerful Performance
- ✓ Advanced Technology
- ✓ Innovative Durability

Features for HDB Series Breakers

The new HDB series has innovating technology, unmatched durability and high productivity.

HDB series offer high performance and optimum durability by enlarging the diameter of the T/Bolt.

Changing the hose connecting port from a split flange structure (in/out port) to a new adapter type port avoid bolt breakage and oil leakage.

Hyundai breakers have an optimised form and intelligent look. The box housing is specially designed for advanced durability.

Hyundai breakers have a more powerful impact by enlarging the chisel's diameter, the bigger diameter also increases the strength of the chisel and therefore also improves durability.

The product range consists of 15 diversified products to fit any work conditions.

More options : Anti-Blank Firing On/Off Valve, TPC System(2 stages stroke valve), Provision Hole for underwater works and Auto Grease System.

Hyundai breakers ensure long life for the tools (Chisel Pins, T/Bolts, F/ Heads, etc.) by applying the Anti-Blank Firing system.



Choice of Options

Auto Grease Bracket Mounted System

This system has many advantages:

- Save human negligence of filling grease.
- To greasing several times a day, manual control does not need.
- Contributing to longer machine life, especially for chisels.
- No extra power source to drive.
- Applicable breakers are from HDB70 to HDB800.



Shape of Chisel

Classification	Major Contents	
Moil		Concrete, Rocks, Pavements, Slopes
Wedge		Trench, Slopes, Finishing
Blunt		Quarries
Conical		Concrete, Rocks, Pavements

Choosing the Chisel for Different Rock Types

Classification	Rock	Recommended Breakers	Recommended Chisels
Hard Rock	Basanite, Granite Diabase	HDB140 to HDB800	Blunt type, Wedge type
Soft Rock	Sandstone, Limestone Coal	HDB10 to HDB800	Moil type, Wedge type, conical type

Seal System



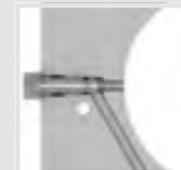
- By using only NOK seals on the HDB series, we have achieved longer seal life.
- On models HDB210 and up, an additional square buffer seal was added to increase the durability of the gas seals, step seals, and the piston.
- This buffer seal also helps to minimise the piston's shaking action.

Valve Case with TPC (Total Power Control) system



- We have shortened the Height & Length of the valve case, but made the width wider for additional balance.
- Valve Plate : Increased the durability by using 6 bolts instead of 4 bolts.
- 2 stroke selector is located on the Valve case as a standard (HDB210~HDB450) to change from long stroke to short stroke according to operator's need for optimal performance.

ABF(Anti Blank Firing) System with Auto Control Valve



- ABF(Anti Blank Firing) System is provided as a standard starting from HDB50 to HDB800 Model.
- This system will help to protect the Chisel pins, T/Bolts and Front heads

from Blank Firing, and it is suitable for all kinds of working environment.

- When Auto control valve is turned on, breaker operation will automatically start again by giving a small amount of pressure to Chisel, It will automatically stop when chisel is lift up or after breaking.
- But, from HDB650 to HDB800 models can not turn off the auto control valve to protect the breaker more perfectly.
- The distinctive feature will protect the equipment from Secondary breaking and amateur's operation by having the functioning of Anti Blank Firing automatically on breaker.

2 Stroke Selector System



- 2 stroke selector is located on the side of Cylinder as a standard
- (HDB50~HDB180) to change from long stroke to short stroke according to operator's need for optimal performance.



HDB Series Breaker Specification

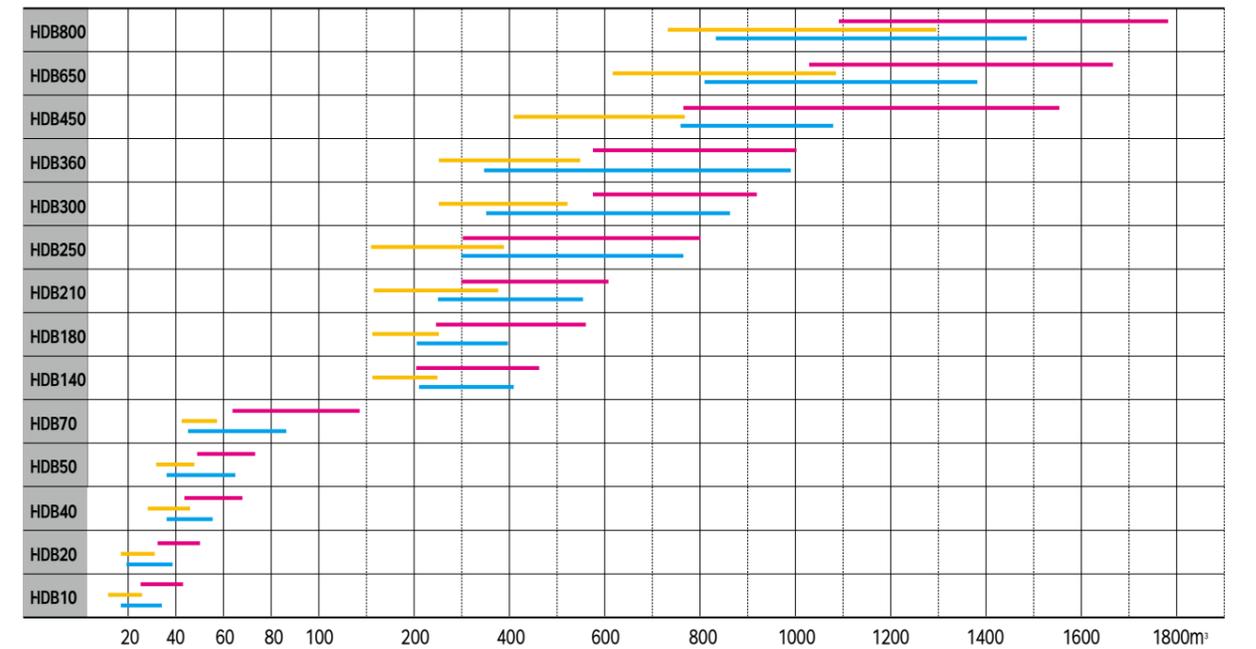
Item	Unit	HDB10	HDB20	HDB40	HDB50	HDB70	HDB90	HDB140	HDB180	HDB210	HDB250	HDB300	HDB360	HDB450	HDB650	HDB800
Operating Weight (Top Box BKT.)	kg	115	150	224	333	431	614	929	1209	1738	2165	2832	2937	3713	4380	5625
	lb	253	330	493	734	950	1354	2048	2665	3832	4773	6243	6475	8186	9656	12401
Overall Length (w/STD. MTG. BKT.)	mm	1110	1239	1408	1603	1805	1981	2225	2455	2764	2898	3200	3200	3595	3766	4059
	Inch	43.7	48.8	55.4	63.1	71.1	78	87.6	96.7	108.8	114.1	126	126	141.5	148.3	159.8
Overall Length (w.o/MTG. BKT.)	mm	973	1090	1258	1419	1591	1760	1962	2153	2395	2526	2790	2790	3173	3271	3505
	Inch	38.3	42.9	49.5	55.9	62.6	69.3	77.2	84.8	94.3	99.4	109.8	109.8	124.9	128.8	138
Operating Weight (Side BKT.)	kg	-	-	162	271	340	513	773	1199	1647	2020	2796	2806	3628	-	-
	lb	-	-	357	597	750	1131	1704	2643	3631	4453	6164	6186	7998	-	-
Overall Length (Side BKT.)	mm	-	-	1192	1560	1657	1842	1903	2094	2348	2457	2732	2732	3070	-	-
	Inch	-	-	46.9	61.4	65.2	72.5	74.9	82.4	92.4	96.7	107.6	107.6	120.9	-	-
Chisel Out Dia.	mm	40	45	62	70	78	85	105	120	135	145	150	155	165	180	200
	Inch	1.6	1.8	2.4	2.8	3.1	3.3	4.1	4.7	5.3	5.7	5.9	6.1	6.5	7.1	7.9
Chisel Length	mm	420	500	610	730	806	850	975	1165	1250	1280	1400	1400	1650	1500	1700
	Inch	16.5	19.7	24	28.7	31.7	33.5	38.4	45.9	49.2	50.4	55.1	55.1	65	59.1	66.9
Setting Pressure	kgf/cm ²	150	150	150	170	180	190	190	210	210	210	210	210	240	250	
	psi	2134	2134	2134	2418	2560	2702	2702	2987	2987	2987	2987	2987	3414	3556	
Working Pressure	kgf/cm ²	70~110	80~120	100~140	100~140	100~140	100~140	120~160	120~170	130~170	140~180	140~180	140~180	140~180	150~190	150~190
	psi	996~1565	1138~1707	1422~1991	1422~1991	1422~1991	1422~1991	1707~2276	1707~2418	1849~2418	1991~2560	1991~2560	1991~2560	1991~2560	2134~2702	2134~2702
Oil Flow	lpm	15~30	20~40	30~50	30~55	45~80	50~100	90~110	100~140	110~160	150~210	180~250	180~250	200~280	280~400	320~450
	gpm	4.0~7.9	5.3~10.5	7.9~13.2	7.9~14.5	11.9~21.1	13.2~26.4	24~29	26.4~37	29.1~42.3	39.6~55.5	47.6~66.0	47.6~66.0	52.8~74.0	74.0~105.7	322~119.9
Blow Rate (H/ Speed)	BPM	600~1200	600~1200	500~1000	350~900 (450~1000)	350~900 (450~1000)	300~700 (550~750)	350~550 (500~750)	350~550 (450~600)	350~550 (450~600)	250~350 (300~450)	200~350 (300~480)	200~350 (300~480)	200~350 (300~480)	250~420 (300~500)	230~370 (300~480)
	kgf/cm ²	12	12	12	12	12	12	12	11	11	11	11	11	11	16	11
Back Head N2 Gas Pressure	psi	171	171	171	171	171	171	171	156	156	156	156	156	156	228	156
	ton	0.5~1.5	0.8~3	3~5	4~6	6~8	7~12	10~15	16~20	18~25	22~29	26~32	28~40	38~50	42~81	55~100
Suitable Exca.	lb	1102~3307	1764~6614	6614~11023	8818~13227	15432~26455	22046~33069	35274~44092	39683~55116	48502~63934	57320~70548	61729~88185	83775~110231	92594~178574	121254~220462	

Standard : ●, Option : ●

HDB Application

Contents	HDB10	HDB20	HDB40	HDB50	HDB70	HDB90	HDB140	HDB180	HDB210	HDB250	HDB300	HDB360	HDB450	HDB650	HDB800
Underwater works	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto Greasing System Hole	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●
TPC (Total Power Control) System Selector Type	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●
ABF (Anti Blank Firing) System	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●
Auto Greasing Unit	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●
Central Grease Supply Unit	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●

Productivity (8 hours per day)



•Productivity can be changed depending on operator's skill, using machine and job site condition. The above data is reference purpose only.

● Hard Sand Stone
● Reinforced Concrete
● Non-Reinforced Concrete

Suitable Excavator

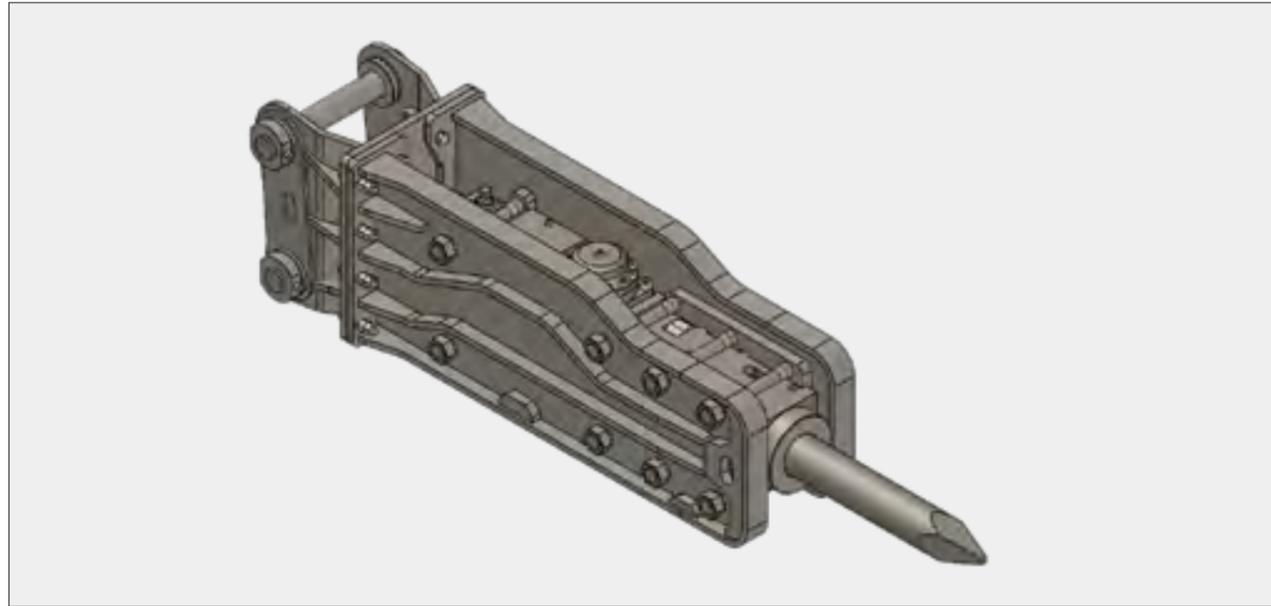
Item	HDB10	HDB20	HDB40	HDB50	HDB70	HDB90	HDB140
Model	R16-9	R27Z-9, R25Z-9A	R35Z-9, HSL850-7A	R55-9, R55W-9, R60-9S, R60W-9S, R60CR-9, HX60	H930S, H940S, H930C, H940C, R60-9	R80-7, R80CR-9	R140LC-9, R140LC-9S, R140W-9, R140W-9A, R140W-9S, R145LCR-9, R145LCR-9A, R140W-7
Item	HDB180	HDB210	HDB250	HDB300, 360	HDB450	HDB650	HDB800
Model	R160LC-9, R160LC-9S, R170W-9, R180LC-9, R180LC-9S, R180W-9A, R180W-9S, R170W-7, R160LC-9, HX180	R210LC-9, R210NLC-9, R210W-9, R210W-9S, R220LC-9A, R220LC-9S, R220LC-9SH, R235LCR-9, R235LCR-9A, HX220	R250LC-9, R260LC-9A, R260LC-9S	R290LC-9, R300LC-9A, R300LC-9S, R300LC-9SH, R320LC-9, R330LC-9A, R330LC-9S, R330LC-9SH, R380LC-9, R380LC-9A, R380LC-9SH, R430LC-9, R430LC-9SH	R480LC-9, R480LC-9A, R480LC-9S, HX480	R520LC-9, R520LC-9A, R520LC-9S, HX520	R800LC-9



BREAKERS

HTB SERIES

HTB Series



• SPECIFICATION

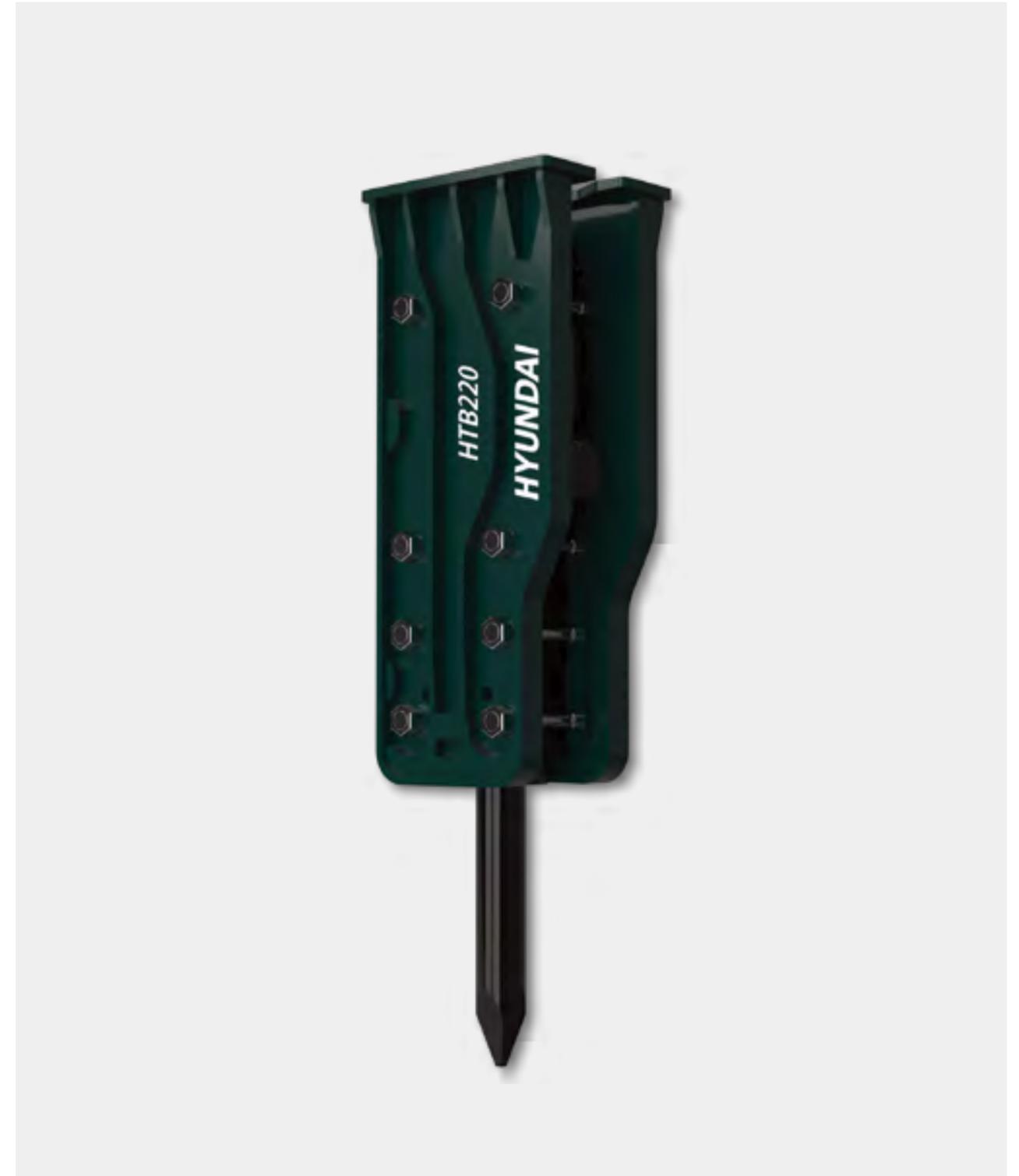
Specification		Unit	HTB220
Operating Weight	Total Ass'y	kg	2,010
	w/o Chisel	mm	1,890
Overall Length (L)	Total Ass'y	mm	2,880
	w/o Chisel	mm	2,060
Overall Height (H)	Total Ass'y	mm	680
Overall Width (W)	Total Ass'y	mm	575
Standard Tool (Moil)	Diameter	mm	Ø135
	Length	mm	1,200
Operating Pressure		kgf/cm ²	170 ~ 210
Required Oil Flow		L/min.	130 ~ 150
Blow Frequency	Low Speed	bpm	400
	High Speed		800
Acceptable Back Pressure (Max.)		kgf/cm ²	6.3 ~ 7
Relief Setting Pressure		kgf/cm ²	210
Pressure Adjust Valve Setting (Close → Open)		turns	2
Gas Charging Pressure	Back Head	kgf/cm ²	6.5
	Accumulator	kgf/cm ²	55 ~ 60
Connecting Hose	Length	mm	2,500
	Inner Size	in.	1"
	Fitting Size	-	ORF 1-7/16" * 12UNF-SP
Applicable Carrier Range		ton	18 ~ 25

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

• Easy maintenance

• Cooling efficiency

The valve is separately mounted on the outside of the cylinder for good cooling efficiency.



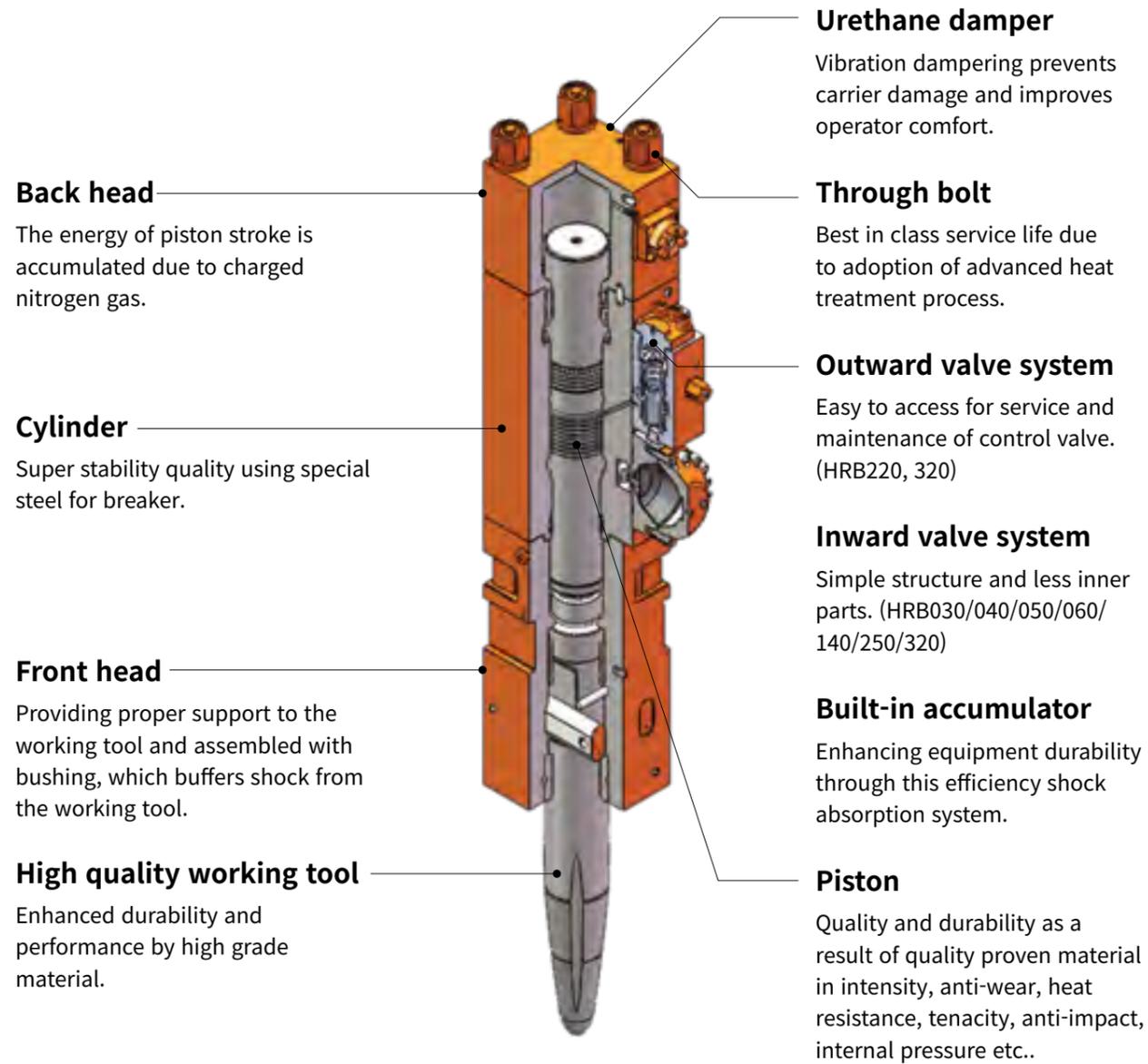
BREAKERS

HRB SERIES

Excellent Performance
Enhanced Durability
Customer Convenience
Easy Maintenance



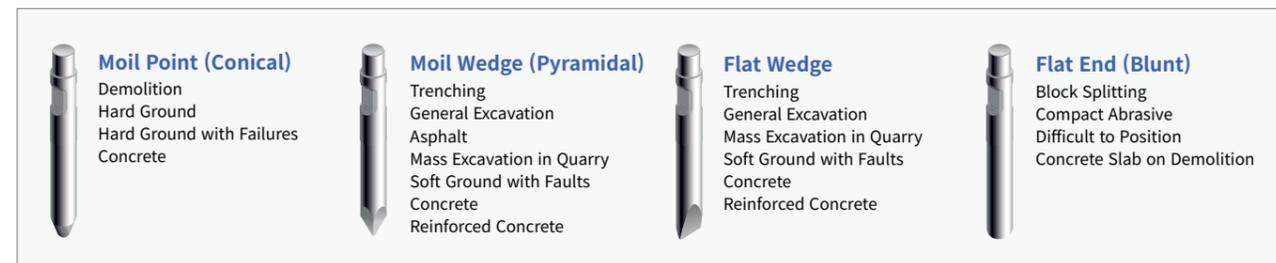
TECHNOLOGY



TOOL SELECTION

USE THE RIGHT TOOL FOR THE RIGHT JOB

Working tool is a wear part and tool consumption is the main causative for wear part costs. It's important to select an appropriate tool according to the working condition.



Type of HRB Breakers



BOX HOUSING TYPE

Recommended for professional contractors working in urban zones, where noise level must be controlled and/or where local regulation may require silenced breakers.

- Silenced design
- Less vibration due to urethane damper inside



OPEN HOUSING TYPE

Simplified design, offer easy access to the power cell for easy on-site maintenance.

- Simple design
- Easy on-site maintenance
- More reach than side mounting



SIDE MOUNT TYPE

Similar characteristics as the open housing type, the mounting on the arm of the excavator is made at an angle.

- Simple design
- Easy on-site maintenance
- Convenience to carry on with excavator



HRB SERIES



APPLICATION

○ : Standard, △ : Option, × : N/A

Contents	HRB030	HRB040	HRB050	HRB060	HRB140	HRB220	HRB250	HRB310	HRB320
Accumulator	×	×	×	×	×	○	○	○	○
Dual speed control	×	×	×	×	×	×	×	×	×
Anti-blank firing func.	×	×	×	×	×	×	×	×	×
Under water	×	×	×	×	×	×	×	×	×
Auto greasing kit	×	×	×	×	×	△	△	△	△

SPECIFICATION

Specification	Unit	HRB030			HRB040			HRB050			HRB060			HRB140			HRB220			HRB250			HRB310			HRB320				
		Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount	Box Housing	Open Housing	Side Mount		
Working weight	kg	129	95	95	180	158	158	361	343	263	451	410	335	1,007	866	761	1,893	1,847	1,653	2,046	2,094	1,809	2,457	2,380	2,218	2,968	2,745	2,577		
Overall length	mm	1,331	1,235	1,090	1,417	1,344	1,178	1,660	1,684	1,373	1,717	1,738	1,630	2,354	2,387	1,994	2,847	2,900	2,423	2,793	2,866	2,480	3,002	2,897	2,640	3,075	3,102	2,776		
Oil flow	lpm	20 ~ 30			25 ~ 50			40 ~ 70			50 ~ 90			80 ~ 110			130 ~ 150			120 ~ 180			150 ~ 190			180 ~ 240				
Operating pressure	bar	88 ~ 117			88 ~ 117			108 ~ 137			118 ~ 147			147 ~ 166			157 ~ 177			157 ~ 177			157 ~ 177			157 ~ 177				
Impact rate	low speed	-			-			-			-			-			-			-			-			-				
	high speed	bpm			700 ~ 1,200			600 ~ 1,100			500 ~ 900			400 ~ 800			350 ~ 700			400 ~ 600			350 ~ 550			350 ~ 700			300 ~ 450	
Chisel diameter	mm	45			53			68			75			100			135			140			150			155				
Applicable Carrier Range	ton	1.2 ~ 3.0			2.5 ~ 4.5			4.0 ~ 7.0			6.0 ~ 9.0			10 ~ 15			18 ~ 26			18 ~ 26			27 ~ 35			28 ~ 35				

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

MULTIPROCESSOR

Multiprocessor for professional demolition

Multiprocessor series are featured interchangeable jaw sets mounted on a single base unit providing the efficiency of four tools in one.



MULTIPROCESSOR



Unlimited 360° Hydraulic rotation

With heavy-duty swing gear



Speed up valve

High jaw opening & closing speed



Customized tooth type

Welding type or replaceable type can be chosen



One pin type jaw mechanism

for enhanced shearing force and working & maintenance efficiency



Fully reversible rectangular blades

for lower maintenance cost



User friendly blade clearance

Adjustment by using one set of adjust nut



HEM130



HEM220



HEM320



HEM400

• SPECIFICATION

Specification	Unit	HEM130				HEM220				HEM320				HEM400			
		Crushing	Demolition	Pulverizing	Shear												
Jaw Type		Crushing	Demolition	Pulverizing	Shear												
Working weight	kg	1,231	1,330	1,351	1,256	2,166	2,126	2,233	2,034	3,032	3,012	3,078	2,947	4,694	4,635	4,781	4,575
Overall length	mm	1,940	1,945	1,972	1,890	2,326	2,291	2,342	2,175	2,533	2,565	2,563	2,553	2,807	3,063	2,971	2,968
Overall width	mm	1,200	1,187	1,157	989	1,438	1,368	1,508	1,083	1,684	1,560	1,643	1,348	1,970	1,879	1,895	1,612
Max. Jaw opening	mm	643	629	647	360	903	797	893	503	1,119	983	1,008	573	1,274	1,209	1,184	676
Cutter blade length	mm	214	214	219	319	237	355	237	348	240	461	240	566	264	507	264	631
Required oil flow	lpm	100 ~ 180				150 ~ 250				200 ~ 300				280 ~ 360			
Max. Operating pressure	bar	350				350				350				350			
Crushing force(tip)	ton	62	62	64	65	74	77	70	88	104	110	113	114	159	158	166	178
Applicable Carrier Range	ton	14 ~ 19				20 ~ 28				28 ~ 36				36 ~ 47			
Standard features	Hyd. Slewing motor	Standard															
	Speed-up valve	Standard															

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

• JAW TYPE



Crushing Jaw set

For the primary demolition operations. Crushing down the main structure of a building.

Demolition Jaw set

Specially designed and engineered for mixed concrete and steel applications, combining the advantages of shear jaw set and concrete jaw set. Processing heavily reinforced concrete structures and concrete encased I-beam steel barrels without jaw change.

Pulverizing Jaw set

For the secondary demolition operations. Starting to process the demolished materials. for example Separating reinforcing bar from concrete.

Shear Jaw set

The shear jaw set can be used on all industrial demolition sites for cutting materials such as section bars, pipes, tanks railway carriages, etc..

PULVERIZER

Produced with increased power and durability

Pulverizer series are designed for both primary demolition work, secondary concrete reduction and material sorting.



PULVERIZER - Fixed type



Cracking tooth

On the outer end of jaw for high productivity during pulverizing job



Integrated speed-up valve

delivering easy maintenance and roomy space



Hardened teeth

made of special materials for enhanced durability



Tooth bolting style

for quick and effective replacement (welding type is also available)



Fully reversible rectangular blades

for lower maintenance cost



Wider jaw

With its wider jaw, exceptional closing force and short cycle times, Pulverizer series provide excellent productivity in concrete reduction and reinforced steel separation.

Replaceable tooth system

Fast and effortless replacement of tooth allowing high productivity.

Integrated speed-up valve with cylinder

Maximum maintenance efficiency

Durability

Increased durability has been achieved with the use of abrasive-resistant material. Powerful and durable attachments produced by advanced design and high quality production are able to handle the toughest jobs.

• SPECIFICATION

Specification	Unit	HEP080	HEP160	HEP190	HEP220	HEP320	HEP420
Working weight	kg	518	952	1310	1,930	2,349	3,321
Overall length	mm	1,275	1,656	1,985	2,435	2,074	2,633
Jaw width(Fixed/Moving Jaw)	mm	340 / 290	384 / 330	438 / 350	470 / 376	510 / 392	550 / 428
Max. Jaw opening	mm	478	680	732	968	970	1,105
Max. Operating pressure	bar	300	350	350	350	350	350
Crushing force(tip)	ton	39	56	59	77	84	116
Cutter blade length	mm	110	240	240	360	360	240
Required oil flow	lpm	80 ~ 100	100 ~ 180	150 ~ 250	150 ~ 250	200 ~ 300	200 ~ 300
Applicable Carrier Range	ton	7 ~ 10	13 ~ 20	16 ~ 25	20 ~ 28	28 ~ 36	36 ~ 44
Standard features	Speed-up valve	Not available	Not available	Standard	Standard	Standard	Standard
	Bolting tooth	Not available	Not available	Not available	Standard	Standard	Standard

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

PULVERIZER - Rotatable type



Wide jaw opening
for a large demolition work surface



Hardened teeth
made of special materials for enhanced durability



Fully reversible rectangular blades



Hydraulic 360 rotation unit
allowing fast and targeted positioning to materials



Integrated speed-up valve
with cylinder delivering easy maintenance and roomy space



PULVERIZER

Integrated speed-up valve with cylinder
Maximum maintenance efficiency

Wider jaw
With its wider jaw, exceptional closing force and short cycle times, Pulverizer series provide excellent productivity in concrete reduction and reinforced steel separation.

Hydraulic 360 rotation unit
Limitless rotation for fast and positioning in all conditions

Durability
Increased durability has been achieved with the use of abrasive-resistant materials. Advanced design and construction produces a powerful and durable attachment to handle the toughest jobs.

Trunnion type cylinder
Improved pulverizer with trunnion supported cylinder gives you high breaking forces through-out the entire working cycle as well as stable movement

• SPECIFICATION

Specification	Unit	HEP160R	HEP200R	HEP250R	HEP350R	HEP450R
Working weight	kg	1,250	1,817	2,517	2,934	4,219
Overall length	mm	1,840	2,134	2,474	2,586	3,075
Jaw width(Fixed/Moving Jaw)	mm	384 / 298	438 / 350	470 / 372	510 / 392	550 / 398
Max. Jaw opening	mm	720	765	925	974	1,142
Max. Operating pressure	bar	350	350	350	350	350
Crushing force(tip)	ton	56	61	73	83	114
Cutter blade length	mm	240	240	360	360	240
Required oil flow	lpm	100 ~ 180	150 ~ 250	150 ~ 250	200 ~ 300	200 ~ 300
Applicable Carrier Range	ton	13 ~ 16	17 ~ 25	20 ~ 27	28 ~ 36	40 ~ 50
Standard features	Speed-up valve	Not available	Standard	Standard	Standard	Standard
	Bolting tooth	Not available	Not available	Standard	Standard	Standard

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

GRAB

Grab series are designed for selective demolition,
sorting of recycle material and loading of various materials.



GRAB

Reinforced body & jaw

Body and jaw are reinforced to prevent from deformation against external force.

(from HEG140 and larger)

Mainframe is tightly protected from crushing debris. Thus inner parts remain intact in any condition.

Stopper

Reinforced stopper is located on body and it has the structure much stronger to be fixed. (from HEG140 and larger)

Using quality material

HARDOX plates are adapted on the jaw and bottom plate of body where the wear resistance and durability are required.

Easy maintenance and repairing

New Grab series provide easy maintenance and repairing.

Hydraulic 360° Rotation unit

The continuous 360° hydraulic rotation got stronger with two rotation motors.

(from HEG140 and larger)

This can make sorting job much easier with strong torque.

2 cylinders are applied

2 cylinders are applied for equal distributed load & better productivity of jaws.

(from HEG140 and larger)

Improved Cutting edge plate

Separable cutting edge plate for easy replacement.

Hardened bolts and stopper block are applied.



• SPECIFICATION

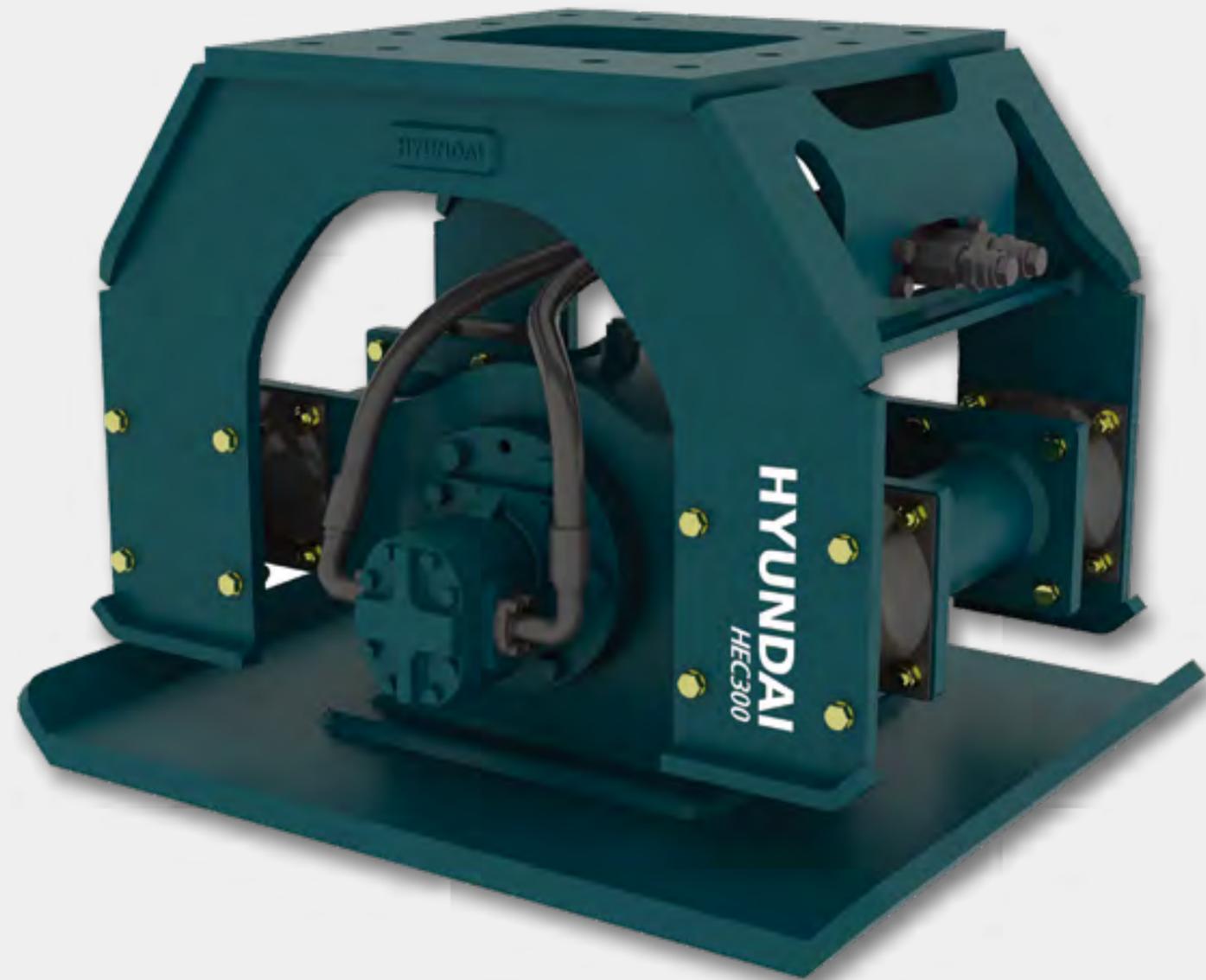
Specification	Unit	HEG030	HEG050	HEG080	HEG140	HEG200	HEG300	
Number of Cylinder	ea	1	1	1	2	2	2	
Working weight	kg	265	432	568	1,086	1,494	2,370	
Max. Closing force	ton	1.7	2.5	3.2	6.1	7.3	8.6	
Oil flow	lpm	10~30	20~60	20~60	40~80	60~120	80~160	
Operating Pressure	bar	270	300	300	350	350	350	
Capacity	liter	100	230	320	430	620	995	
Length	Closing Position	mm	802	1,042	1,186	1,202	1,393	1,531
	Opening Position	mm	1,182	1,533	1,736	1,748	2,050	2,285
Height	Closing Position	mm	949	1,162	1,303	1,325	1,459	1,599
	Opening Position	mm	1,018	1,292	1,447	1,417	1,573	1,742
Width	mm	450	600	700	900	1,000	1,250	
Applicable Carrier Range	ton	3 ~ 4	4 ~ 8	7 ~ 10	11 ~ 16	18 ~ 25	25 ~ 38	

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



COMPACTOR

Compactor series are designed for soil compaction, utility, construction and road maintenance applications.



COMPACTOR



Oil bath type

Compaction weight chamber is filled with gear oil, thus, it eliminates periodical greasing & oil changing interval is now changed to 1 year.



Durable frame design

Durability of main body is increased by flat and solid frame.



Stopper

It limits excessive pressing force from excavator.



Wider cushion rubber for HEC050N

It increases the durability of cushion rubber



Easy and versatile mounting

Direct Mount frame : the pin-on type frame is designed to accept a variety of slip-fit bushings and pins, resulting in versatile installation on any carrier that does not require OEM's pin-to-pin distance.

Single hose block

All hoses are routed within the frame and connected to a mono hose block located on the back. It keeps the hoses from easy damage.

Cushion rubber

Specially designed cushion rubbers protect machine and operator from vibrations.

Heavy duty gear motor

Heavy duty and high efficiency gear motor with splined shaft and high pressure motor seals prevent easy damage caused by pressure shock during startup and shutdown.

Self-aligning bearing

Self-aligning double row spherical roller bearing provides a long service life to rotating components.

Easy maintenance

All grease fittings are located for easy access.

Cross-check valve as standard

Built-in cross check valve within motor protects the motor and bearing from damage caused by abrupt shutdown of hydraulic flow. And it also eliminates the need for a case drain.

Valve pack as standard

Flow control valve (Priority flow divider) regulates hydraulic in-flow to the motor and prevents it from over-speeding. Thus, the compactor can be installed on carrier not equipped with a flow control valve on its auxiliary plumbing.

Pressure relief valve is also incorporated in the valve pack and it prevents system from over-pressure. An attachment, such as breaker, which works at a relatively higher pressure than compactor can be easily switched to the compactor on the same auxiliary plumbing without re-setting of the carrier's relief valve pressure.

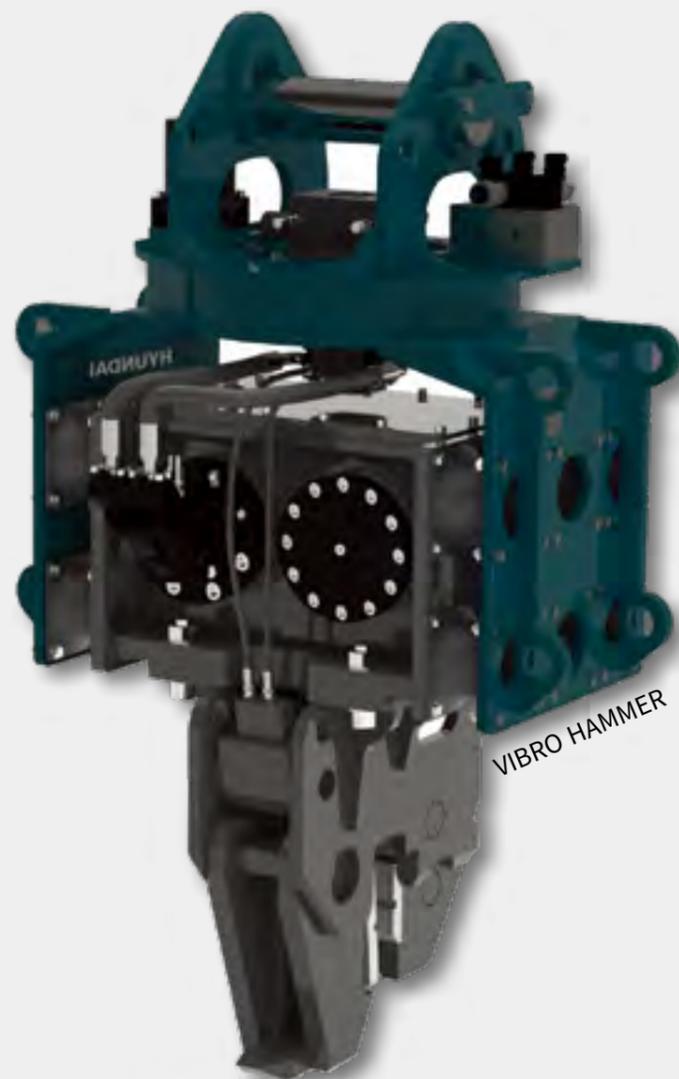
By-pass check valve, flow control valve, and pressure relief valve are packed within a single hose block.

• SPECIFICATION

Specification		Unit	HEC050N	HEC100	HEC150	HEC200	HEC300
Impulse force		ton	2.1	4.0	6.4	11.2	17.3
Weight	Adapter mount type	kg	260	430	689	1,094	1,502
	Direct mount type	kg	264				
Height(H)	Adapter mount type	mm	650	640	750	840	943
	Direct mount type	mm	695				
Width(W)		mm	320	610	740	860	1,000
Base plate (W x L)		mm	320 x 745	610 x 900	740 x 1,050	860 x 1,200	1,000 x 1,300
Compaction area		m	0.24	0.55	0.78	1.03	1.30
Oil flow required		lpm	45 ~ 65	50 ~ 120	80 ~ 170	110 ~ 200	160 ~ 250
Max. Cycle per minute		rpm	2,100	2,000	2,000	2,000	2,000
Operating pressure	Free load	bar	30 ~ 50	30 ~ 50	30 ~ 50	30 ~ 50	30 ~ 50
	With load	bar	100 ~ 220	100 ~ 138	100 ~ 138	100 ~ 138	100 ~ 138
Applicable Carrier Range		ton	4 ~ 6	6 ~ 10	11 ~ 16	17 ~ 25	26 ~ 40

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

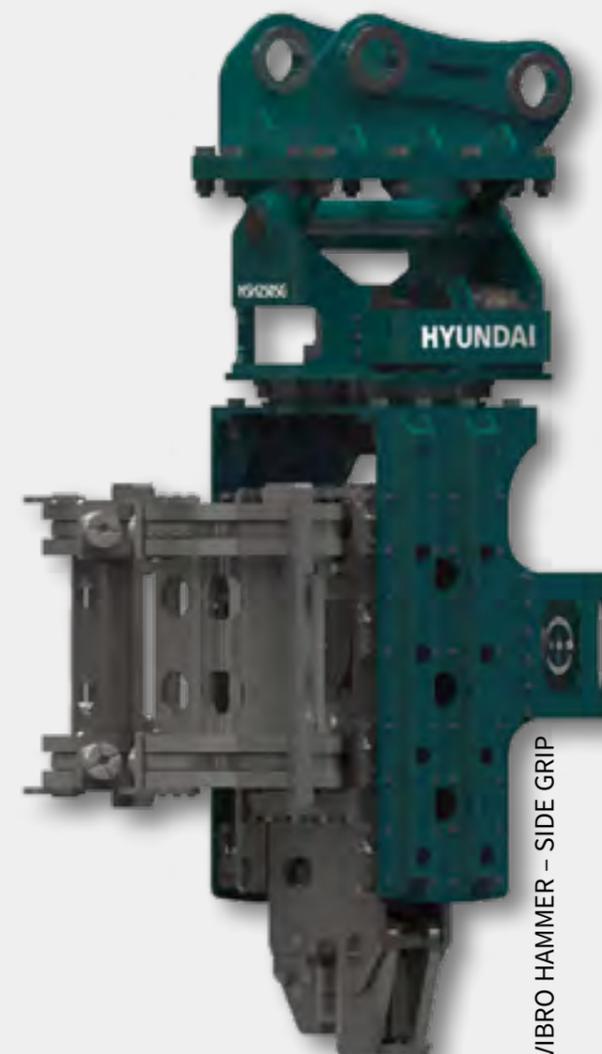
VIBRO HAMMER



VIBRO HAMMER



VIBRO HAMMER - AUTO TILTING



VIBRO HAMMER - SIDE GRIP

VIBRO HAMMER



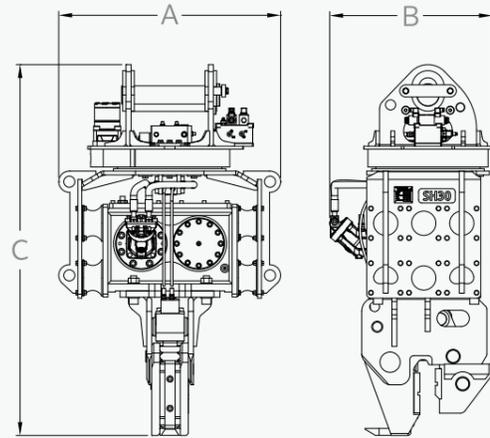
SEA SIDE



RIVER SIDE



SAND FIELD



• SPECIFICATION

Specification	Unit	HSH250	HSH300	HSH400
Weight (Incl. Mounting Cap)	kg	1,520	1,810	2,050
Extension boom weight	kg	500	600	715
Setting Pressure	bar	250	250	280
Oil flow	lpm	170 ~ 200	180 ~ 220	240 ~ 260
Centrifugal Force	kN	400	520	550
Frequency	rpm	2,800 ~ 3,600	2,600 ~ 3,600	2,200 ~ 2,800
Rotation	degrees	360	360	360
Jaw open	mm	65	65	65
Dimension (A x B x C)	mm	1,094 x 711 x 1,862	1,094 x 805 x 1,862	1,200 x 900 x 1,950
Max. Working height	m	8.5	10.5	11.5
Applicable Carrier Range	ton	20 ~ 30	30 ~ 40	40 ~ 55

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

Faster and more powerful

- Faster penetration and pulling up than other vibratory hammers thanks to bigger and centered eccentric weight.

Rotational mounting

- 360 hydraulic rotation system

Rigid and durability

- Double bearing structure and rigid rubber cushion

Low maintenance cost & Easy maintenance

- Concise structure of components

Easy installation & operation

- Concise operation electric kits



VIBRO HAMMER

VIBRO HAMMER – AUTO TILTING



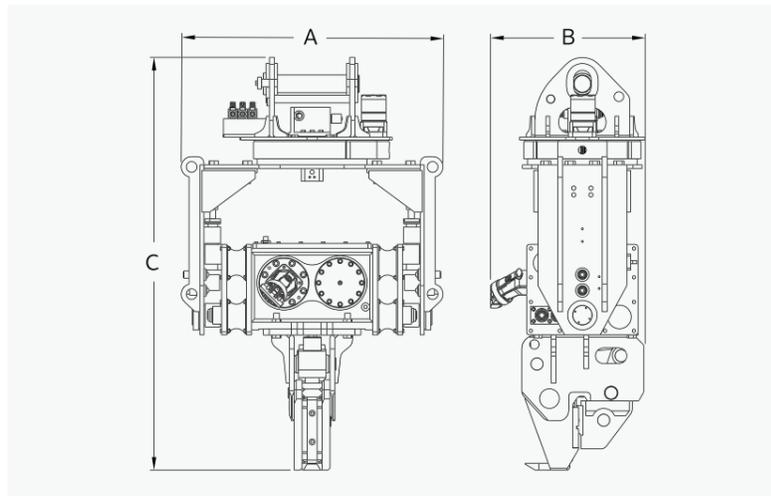
SEA SIDE



RIVER SIDE



SAND FIELD



• SPECIFICATION

Specification	Unit	HS250T	HS300T	HS400T
Weight (Incl. Mounting Cap)	kg	1,620	1,910	2,250
Extension boom weight	kg	500	600	715
Setting Pressure	bar	250	250	280
Oil flow	lpm	170 ~ 200	180 ~ 220	240 ~ 260
Centrifugal Force	kN	400	520	550
Frequency	rpm	2,800 ~ 3,600	2,600 ~ 3,600	2,200 ~ 2,800
Rotation	degrees	360	360	360
Tilt angle	degrees	90	90	90
Jaw open	mm	65	65	65
Dimension (A x B x C)	mm	1,326 x 711 x 2,089	1,326 x 805 x 2,089	1,435 x 900 x 2,180
Max. Working height	m	8.5	10.5	11.5
Applicable Carrier Range	ton	20 ~ 30	30 ~ 40	40 ~ 55

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

More efficient and safer works

- 90-degree tilt / 360° hydraulic rotation function enable more efficient and safer works

“Auto Hold” function on 90-degree tilting position

Rigid and durability

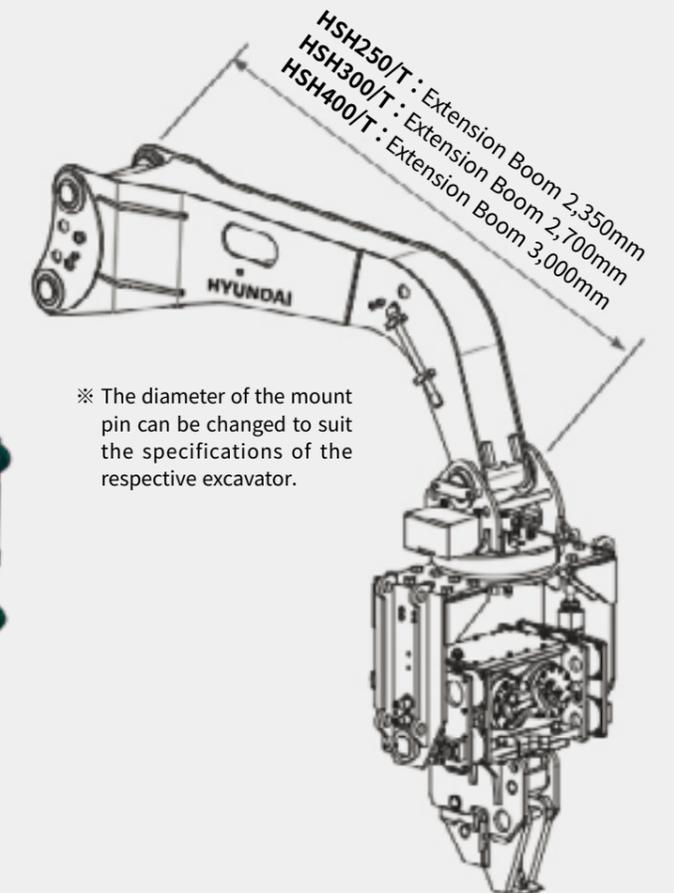
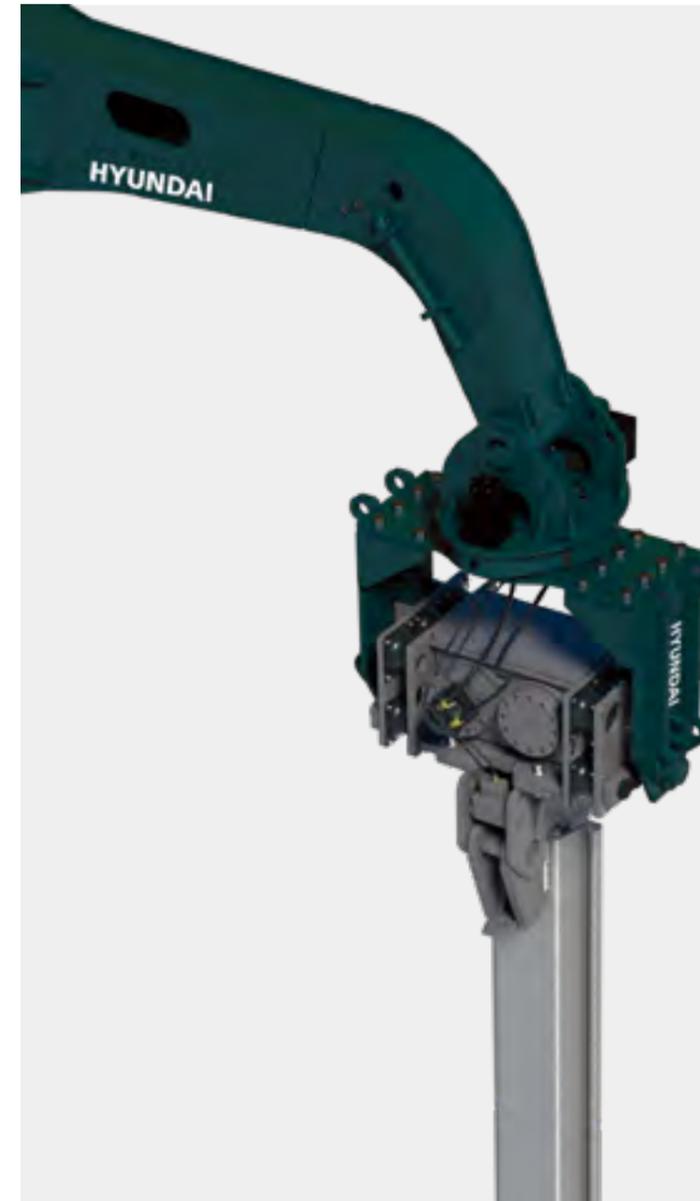
- Double bearing structure and rigid rubber cushion

Low maintenance cost & easy maintenance

- Concise structure of components

Easy installation & operation

- Concise operation electric kits
- Compact design without tilting cylinders, which is prone to break down and high maintenance costs



VIBRO HAMMER – SIDE GRIP



SEA SIDE



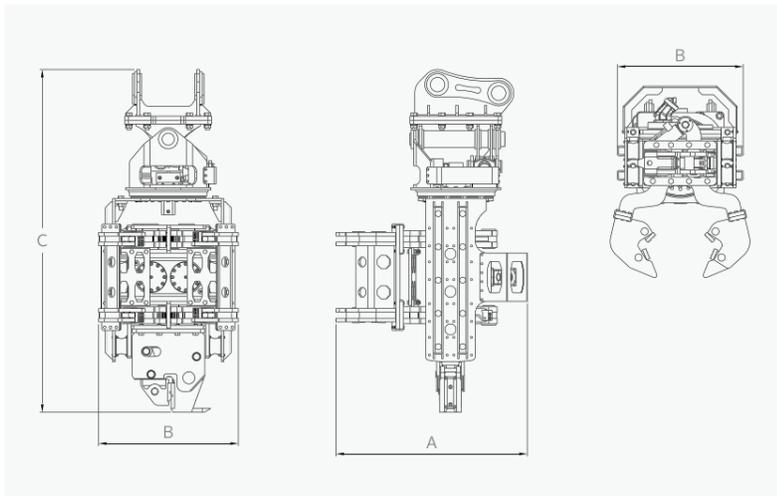
RIVER SIDE



HEAD ROOM CONSTRUCTION



CONFINED SPACE JOB SITE



• SPECIFICATION

Specification	Unit	HSH250SG	HSH300SG
Weight (Incl. Mounting Cap)	kg	2,820	3,300
Setting Pressure	bar	250	250
Oil flow	lpm	170 ~ 200	180 ~ 220
Centrifugal Force	kN	400	520
Frequency	rpm	2,800 ~ 3,600	2,800 ~ 3,600
Rotation	degrees	360	360
Tilt angle	degrees	±30	±30
Jaw open	mm	65	65
Dimension (A x B x C)	mm	1,515 x 1,040 x 2,833	1,515 x 1,040 x 2,833
Applicable Carrier Range	ton	20 ~ 30	30 ~ 45

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

Available for a wide ranges of piles

- Sheet piles, H beams, I-H beams, and round-piles

Versatile piling at headroom job site

Versatile piling at a confined space job site

Precise and accurate side clamping

- 360-degree Swivel rotatable jaws enable precisely and accurately clamping

Quicker and more powerful piling

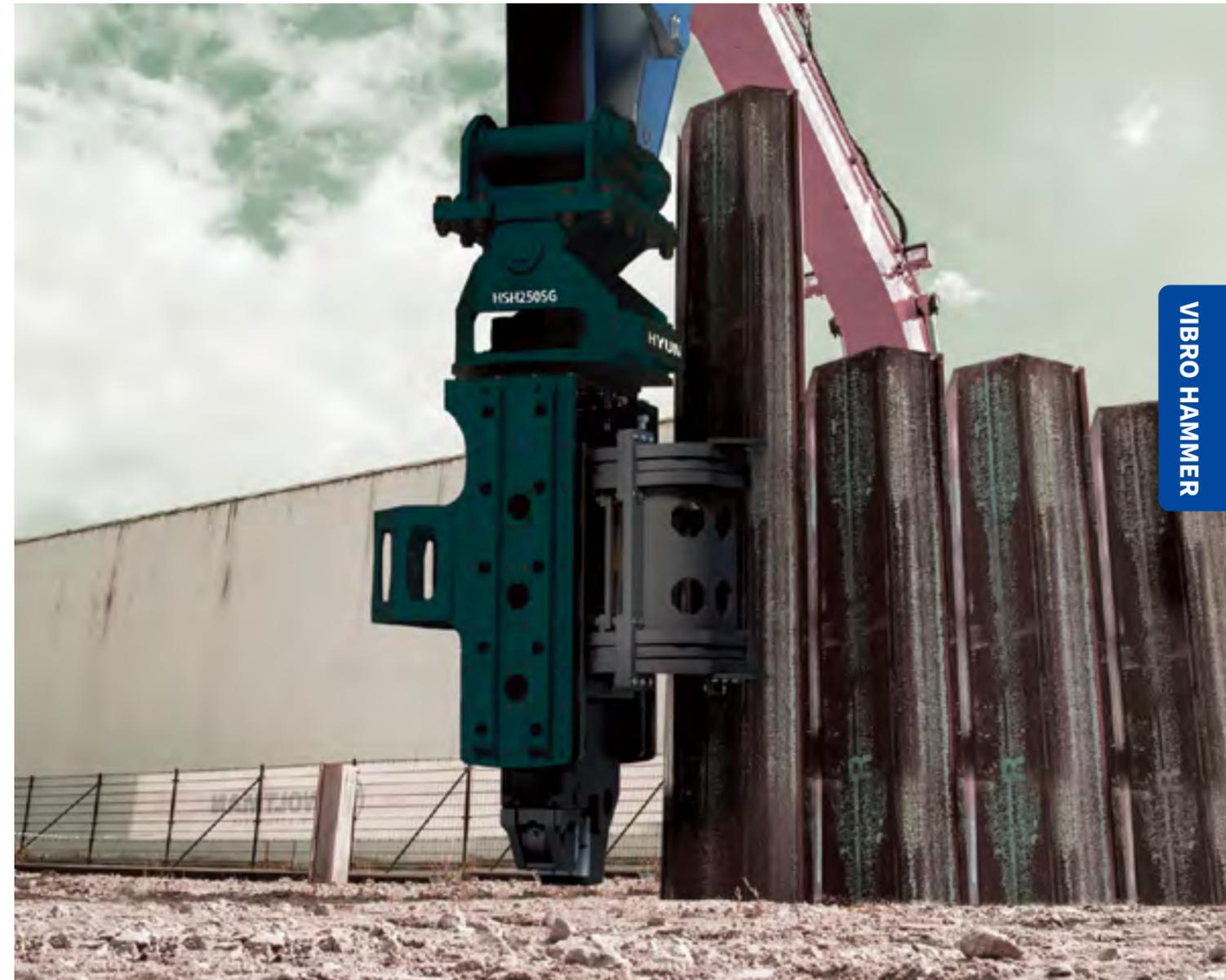
- Faster penetration and extraction than other side grip pile drivers thanks to bigger and double eccentric weight

Low maintenance cost & easy maintenance

- Concise structure of components

Rigid and durability

- Double bearings, balanced counter weights and rigid rubber cushion



SIDE GRIP SELECTION GUIDE

Model		30~45 ton	28~30 ton	20~26 ton	17~20 ton
Pile size (length/weight)	6m/2800kg	HSH300SG			
	12m/1900kg				
	16m/1300kg				
	8m/2300kg		HSH300SG HSH250SG	HSH250SG	
	12m/1800kg				
	16m/1200kg				
Suitable piles	Sheet piles	Width 400 ~1,200mm / depth 265mm			
	H-beams/Round-piles	Max 500X300 / Max dia 500mm			

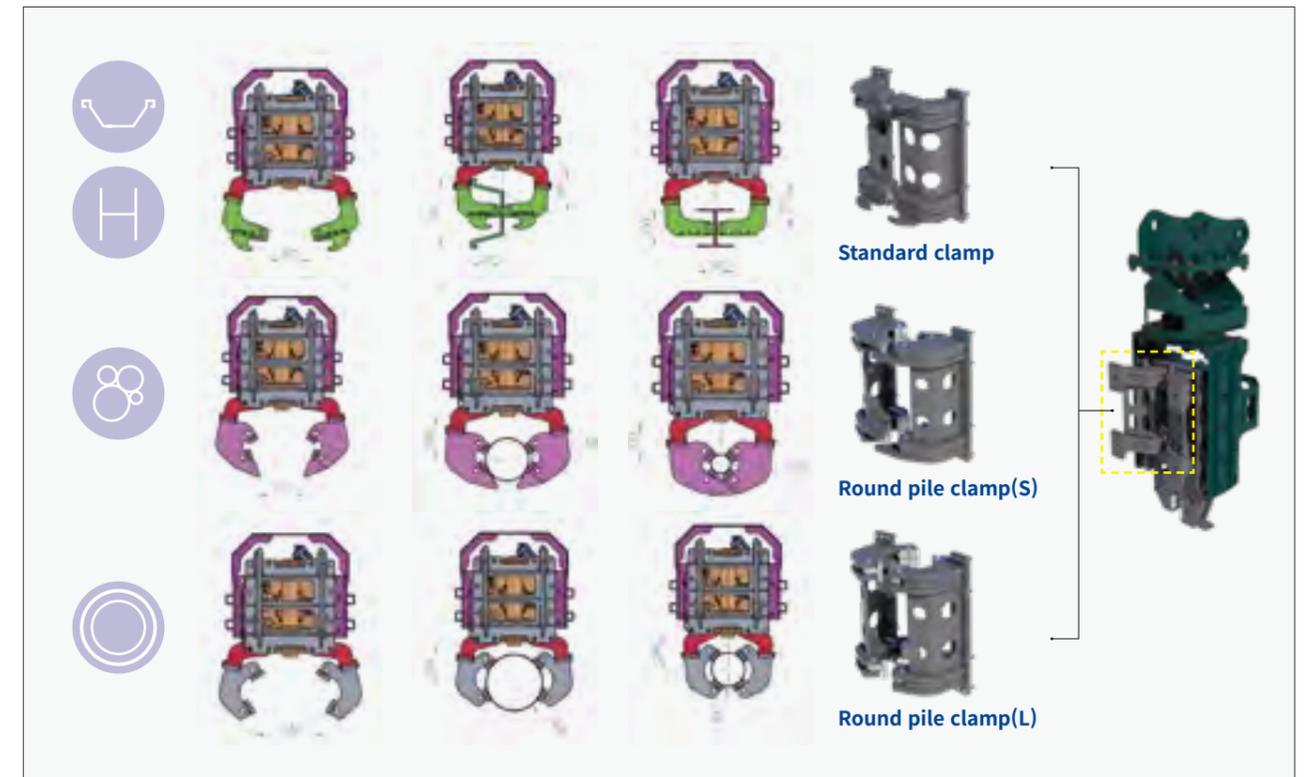
※ When making the final selection, excavator engine size and hydraulic system design (oil pump arrangement, oil flow rate/pressure, etc.), excavator lifting capacity and stability as well as soil and site conditions shall be taken into account

Model		Unit	HSH250SG	HSH300SG
Suitable pile grip dia	Round pile clamp(S)	mm	150 ~ 350	
	Round pile clamp(L)	mm	300 ~ 500	

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

SIDE GRIP CLAMP SELECTION GUIDE

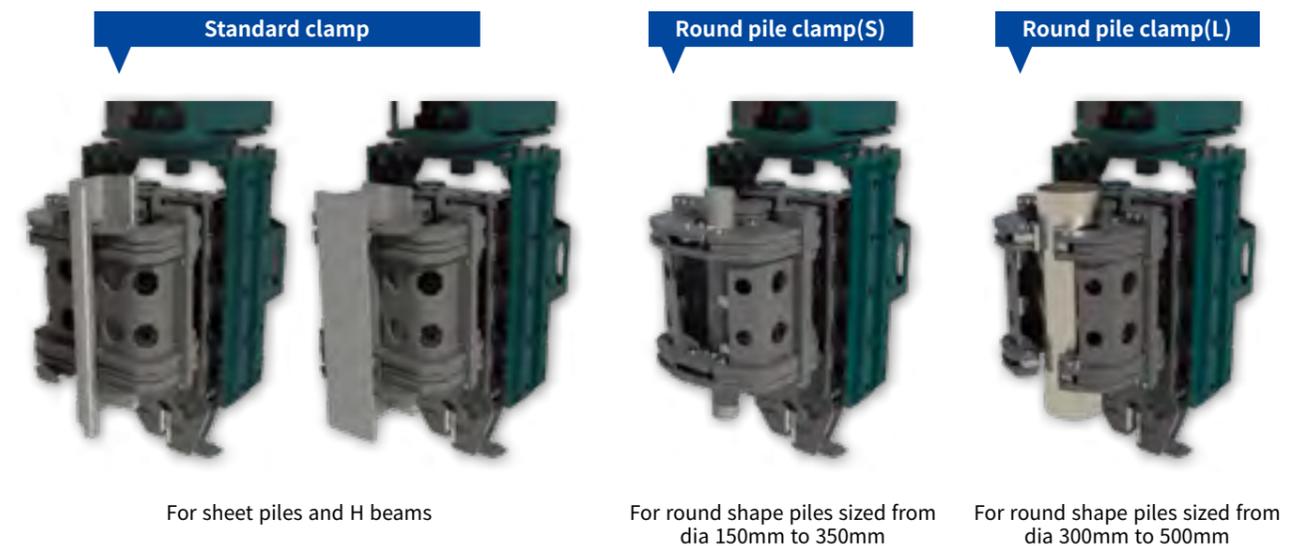
• CLAMP OPTION SPECIFICATION



• INTERCHANGEABLE CLAMP OPTION

Thanks to its interchangeable side clamp system, the Vibro Hammer – Side Grip can handle all types of piles with its multiple clamps, and it offers quick transfer capability between various applications

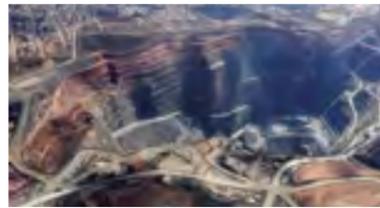
Round pile clamp(S) and Round pile clamp(L) are an option



VIBRO RIPPER



VIBRO RIPPER



MINING



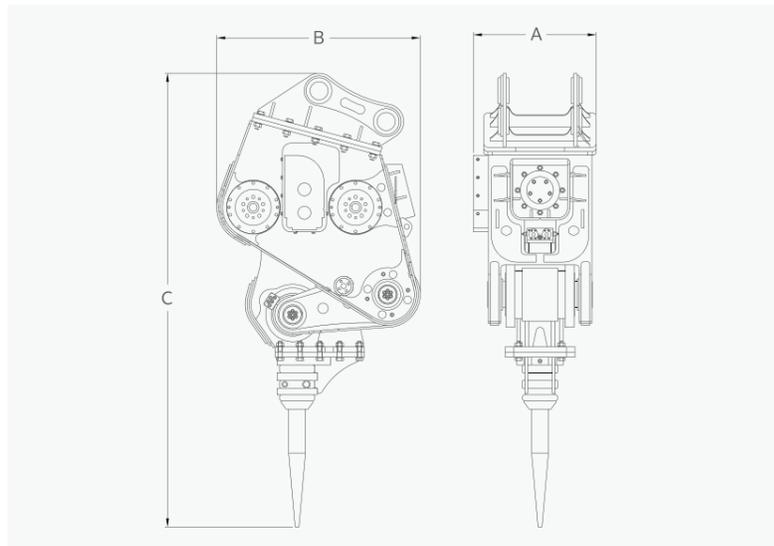
DOWNTOWN CONSTRUCTION



TUNNEL CONSTRUCTION



UNDER WATER OPERATION



Higher productivity than hydraulic breaker

- 2-8 times better productivity than hyd. breaker depending on type of rocks

More powerful than other vibratory rippers

- Unique structure and design specially bigger and centered eccentric weight enable - most powerful Ripper in the same class

Selective tool options - Three tools for one Ripper

- Chisel type for hard rock, Tip(Tooth) type for Soft & mid hard rock and Compactor type for compacting ground
- Three optional tools enable to offer wider selections of application at rock breaking job sites

Minimum vibration to excavator and operator at hard-rock

- Unique Cartilage-link allows more powerful striking force but less vibration transmitted to excavator and operator
- Less impact to excavator and less fatigue to operator

Minimum noise

- Unique Cartilage-link structure minimizes the noise (max. 90dB in 10m) and it allows the construction in noise-regulated area

Easy on-site maintenance & low maintenance cost

- Concise structure of components and double bearing structure
- Most parts can be replaced at job site
- No need to return it to repair shop
- Less number of parts enable low maintenance cost
- Maximum productivity can be achieved by reducing down time by on site parts replacement and fast tip(tooth) replacement

Under water operation without special devices

- All kinds of work under water can be done without any expensive and complicated preparations

Tip(tooth) type



Chisel type



Compactor type(Option for model HSR250/300)



• SPECIFICATION

Specification	Unit	HSR250	HSR300	HSR400	HSR500	HSR800
Weight (Incl. Mounting Cap)	kg	2,620	3,450	4,440	5,600	10,500
Setting pressure	bar	250	250	280	280	300
Operating Pressure	bar	180 ~ 220	180 ~ 220	210 ~ 250	210 ~ 250	240 ~ 270
Oil Flow	lpm	170 ~ 200	180 ~ 220	240 ~ 280	250 ~ 310	500 ~ 560
Frequency	bpm	2,500 ~ 3,500	2,500 ~ 3,200	2,000 ~ 2,800	2,000 ~ 2,800	2,200 ~ 2,500
Dimension (A x B x C)	mm	787 x 1,148 x 2,870	863 x 1,321 x 3,231	915 x 1,401 x 3,385	1,060 x 1,554 x 3,665	1,404 x 1,600 x 4,100
Tool Diameter	mm	110	120	130	140	180
Applicable Carrier Range	ton	20 ~ 25	28 ~ 34	36 ~ 43	46 ~ 60	70 ~ 90

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