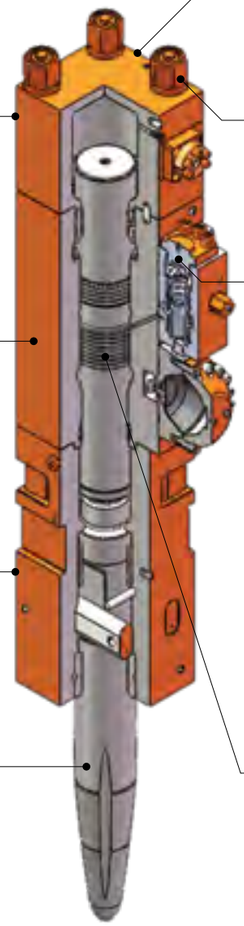
# BREAKERS

## HRB SERIES

**Excellent Performance**
**Enhanced Durability**
**Customer Convenience**
**Easy Maintenance**

# TECHNOLOGY



### Back head
The energy of piston stroke is accumulated due to charged nitrogen gas.

### Cylinder
Super stability quality using special steel for breaker.

### Front head
Providing proper support to the working tool and assembled with bushing, which buffers shock from the working tool.

### High quality working tool
Enhanced durability and performance by high grade material.

### Urethane damper
Vibration dampering prevents carrier damage and improves operator comfort.

### Through bolt
Best in class service life due to adoption of advanced heat treatment process.

### Outward valve system
Easy to access for service and maintenance of control valve. (HRB220, 320)

### Inward valve system
Simple structure and less inner parts. (HRB030/040/050/060/ 140/250/320)

### Built-in accumulator
Enhancing equipment durability through this efficiency shock absorption system.

### Piston
Quality and durability as a result of quality proven material in intensity, anti-wear, heat resistance, tenacity, anti-impact, internal pressure etc..

## 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.

**Moil Point (Conical)**
Demolition
Hard Ground
Hard Ground with Failures
Concrete

**Moil Wedge (Pyramidal)**
Trenching
General Excavation
Asphalt
Mass Excavation in Quarry
Soft Ground with Faults
Concrete
Reinforced Concrete

**Flat Wedge**
Trenching
General Excavation
Mass Excavation in Quarry
Soft Ground with Faults
Concrete
Reinforced Concrete

**Flat End (Blunt)**
Block Splitting
Compact Abrasive
Difficult to Position
Concrete Slab on Demolition





# 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

HRB030 HRB040 HRB050 HRB060 HRB140 HRB220 HRB250 HRB310 HRB320

## • APPLICATION

○ : Standard, △ : Option, × : N/A

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

## • 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 | bpm | - | | | - | | | - | | | - | | | - | | | - | | | - | | | - | | | - | | |
| | high speed | | 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.