



GB makes Good Breaker  
Good Business with GB

## Hydraulic breaker Line-up

Gas Assisted type breaker - T Series / F Series / E Series / HD Series

Fully Hydraulic type breaker - H Series



# INTRODUCTION OF GENERAL BREAKER

Since GB was founded in 1998, we have been focusing on Hydraulic Breakers and successfully obtained an excellent reputation. As a result, GB has a global network in more than 75 countries all over the world and continually strives to maximize the satisfaction of our customers by offering high-quality products at a competitive price.



The name of passion, GB



Wide range of hydraulic breaker  
up to 100ton class (GBN1000E)





Accumulated technology from 1998

Rule the world with GB Power!

We are committed to continue doing our best in order to achieve our goal in the future

“

**Best hammer in the world !**

”



# *THE BEGINNING OF A NEW HISTORY*

In 2020, our factory was newly constructed to have a more advanced production line and improve productivity. A vertically integrated production facility from Materials to Machining and Heat treatment.

This “In-house production system” enables us to provide the customer with the highest quality of breakers & tools, as well as, the competitive prices within a short production time frame.



## Internal Valve type Breaker T Series (GBN10T ~ GBN170T) & F Series (Accumulator type) (GBN210T ~ GBN400T)

- Exceptional Power and Productivity
- High return on investment
- Easy service and maintenance



### Option

- 1) Auto grease system : GBN70T above~
- 2) Anti Blank Firing system : GBN140T, 210T, 220T available
- 3) Underwater system (Air vent hole) : GBN60T above~

| Model                         |          | GBN SERIES | T-SERIES         |               |               |               |               |               |               |               |               | F-SERIES      |               |               |
|-------------------------------|----------|------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                               |          |            | GBN10T           | GBN20T        | GBN30T        | GBN45T        | GBN60T        | GBN70T        | GBN100T       | GBN140T       | GBN170T       | GBN210T       | GBN220T       | GBN400T       |
| Operating Weight (Tool + M/C) | Silenced | Kg         | 135              | 145           | 180           | 250           | 310           | 380           | 570           | 890           | 1,200         | 1,700         | 1,930         | 2,400         |
|                               |          | lb         | 298              | 320           | 397           | 551           | 683           | 838           | 1,257         | 1,962         | 2,646         | 3,748         | 4,255         | 5,291         |
|                               | Open Top | Kg         | 75               | 86            | 160           | 225           | 324           | 380           | 613           | 850           | 1,280         | 1,800         | 2,020         | 2,640         |
|                               |          | lb         | 165              | 190           | 353           | 496           | 714           | 838           | 1,351         | 1,874         | 2,822         | 3,968         | 4,453         | 5,820         |
| Tool (Moil Type)              | Weight   | Kg         | 4                | 6.0           | 9             | 12            | 20            | 25            | 41            | 59            | 97            | 125           | 129           | 193           |
|                               | Diameter | mm         | 40               | 45            | 53            | 60            | 70            | 75            | 90            | 100           | 125           | 135           | 140           | 155           |
| Operating Pressure (Breaker)  |          | bar        | 80~100           | 80~100        | 90~120        | 100~130       | 95~130        | 100~140       | 130~160       | 150~170       | 150~170       | 160~180       | 160~180       | 160~180       |
|                               |          | 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 | 2,175 ~ 2,465 | 2,320 ~ 2,610 | 2,320 ~ 2,610 | 2,320 ~ 2,610 |
| Setting Pressure (Machine)    |          | bar        | 150              | 150           | 150           | 160           | 170           | 180           | 190           | 200           | 200           | 210           | 210           | 220           |
|                               |          | psi        | 2,175            | 2,175         | 2,175         | 2,320         | 2,465         | 2,610         | 2,755         | 2,900         | 2,900         | 3,045         | 3,045         | 3,190         |
| Impact Rate                   |          | bpm        | 800~1,400        | 700~1,200     | 600~1,100     | 500~1,000     | 450~1,000     | 475~950       | 480~850       | 450~780       | 420~730       | 350~680       | 280~550       | 280~550       |
| Accumulator Pressure (N2-Gas) |          | bar/psi    | NONE ACCUMULATOR |               |               |               |               |               |               |               |               | 60/870        |               |               |
| Back Head Pressure (N2-Gas)   |          | bar/psi    | 14/203           | 14/203        | 16/232        | 16/232        | 16/232        | 16/232        | 16/232        | 16/232        | 16/232        | 16/232        | 16/232        | 16/232        |
| Required Oil Flow             |          | l/min      | 15~30            | 20~35         | 25~50         | 30~60         | 34~60         | 40~80         | 45~85         | 85~110        | 100~120       | 120~150       | 120~150       | 160~240       |
|                               |          | 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       | 26.4~31.6     | 31.6~39.6     | 31.6~39.6     | 42.2~63.3     |
| Suitable Excavator            | Min      | ton        | 0.8              | 1.2           | 2.5           | 3             | 3.5           | 6             | 6             | 10            | 15            | 18            | 20            | 28            |
|                               | Max      | ton        | 2.5              | 3             | 4.5           | 5.5           | 7             | 9             | 13            | 17            | 20            | 28            | 30            | 40            |
|                               | Suitable | ton        | 1                | 2             | 3             | 5             | 6             | 7             | 10            | 14            | 17            | 20            | 24            | 34            |

## External Valve type breaker (GBN170E~GBN400E)

- Widely used common parts for easy service & maintenance.
- More competitive prices

## Heavy-duty breaker (GBN645E ~ GBN1000E)

- HD-Series are designed to maximize the force and energy needed to break hard rock.
- High operating efficiency!



### Option

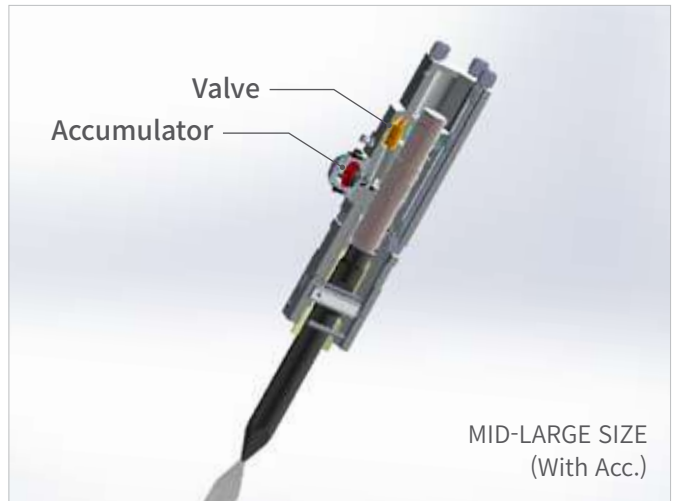
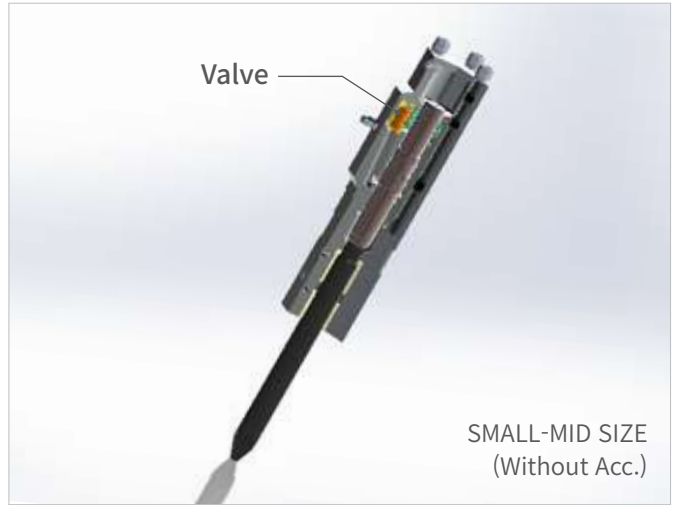
- 1) Auto grease pump : All model available
- 2) Underwater system : All model available

| Model                         |          | GBN SERIES | E-SERIES    |             |             |             | HD-SERIES   |             |             |             |             |             |
|-------------------------------|----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                               |          |            | GBN170E     | GBN220E     | GBN300E     | GBN400E     | GBN645E     | GBN745E     | GBN770E     | GBN800E     | GBN900E     | GBN1000E    |
| Operating Weight (Tool + M/C) | Silenced | Kg         | 1,120       | 1,750       | 2,200       | 2,800       | 2,850       | 3,300       | 3,800       | 4,800       | 6,300       | 10,500      |
|                               |          | Lb         | 2,469       | 3,858       | 4,850       | 6,173       | 6,283       | 7,275       | 8,378       | 10,582      | 13,889      | 23,149      |
|                               | Open Top | Kg         | 1,280       | 1,820       | 2,390       | 2,950       | 3,050       | 3,400       | 3,900       | 5,050       | 6,430       | 10,750      |
|                               |          | Lb         | 2,822       | 4,012       | 5,269       | 6,504       | 6,724       | 7,496       | 8,598       | 11,133      | 14,176      | 23,700      |
| Tool (Moil Type)              | Weight   | Kg         | 88          | 120         | 162         | 213         | 174         | 236         | 279         | 326         | 415         | 470         |
|                               | Diameter | mm         | 120         | 135         | 150         | 160         | 155         | 165         | 175         | 190         | 208         | 230         |
| Operating Pressure (Breaker)  |          | bar        | 150 ~ 170   | 160 ~ 180   | 160 ~ 180   | 160 ~ 180   | 150 ~ 190   | 160 ~ 190   | 160 ~ 200   | 160 ~ 200   | 180 ~ 205   | 220 ~ 240   |
|                               |          | psi        | 2,175~2,465 | 2,320~2,610 | 2,320~2,610 | 2,320~2,610 | 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 (Machine)    |          | bar        | 200         | 210         | 220         | 220         | 240         | 240         | 250         | 250         | 250         | 270         |
|                               |          | psi        | 2,900       | 3,045       | 3,190       | 3,190       | 3,480       | 3,480       | 3,625       | 3,625       | 3,625       | 3,915       |
| Impact Rate                   |          | bpm        | 400 ~ 750   | 350 ~ 700   | 300 ~ 650   | 260 ~ 450   | 300 ~ 500   | 300 ~ 500   | 250 ~ 500   | 250 ~ 500   | 170 ~ 220   | 140 ~ 170   |
| Accumulator Pressure (N2-Gas) |          | bar/psi    | 60 / 870    |             |             |             | 60 / 870    |             |             |             |             |             |
| Back Head Pressure (N2-Gas)   |          | bar/psi    | 6 / 87      | 6 / 87      | 6 / 87      | 6 / 87      | 17 / 246    | 17 / 246    | 18 / 261    | 18 / 261    | 18 / 261    | 18 / 261    |
| Required Oil Flow             |          | l/min      | 90 ~ 120    | 125 ~ 150   | 150 ~ 190   | 180 ~ 250   | 180 ~ 250   | 180 ~ 250   | 210 ~ 280   | 220 ~ 290   | 230 ~ 300   | 360 ~ 430   |
|                               |          | g/min      | 23.7 ~ 31.6 | 33 ~ 39.6   | 39.6 ~ 50.1 | 47.5 ~ 66   | 47.5 ~ 66   | 47.5 ~ 66   | 55 ~ 74     | 58 ~ 76.5   | 61 ~ 79     | 95 ~ 114    |
| Suitable Excavator            | Min      | ton        | 14          | 18          | 24          | 33          | 33          | 33          | 45          | 45          | 55          | 70          |
|                               | Max      | ton        | 20          | 28          | 36          | 50          | 50          | 50          | 55          | 70          | 100         | 150         |
|                               | Suitable | ton        | 17          | 20          | 30          | 40          | 40          | 40          | 50          | 55          | 70          | 100         |

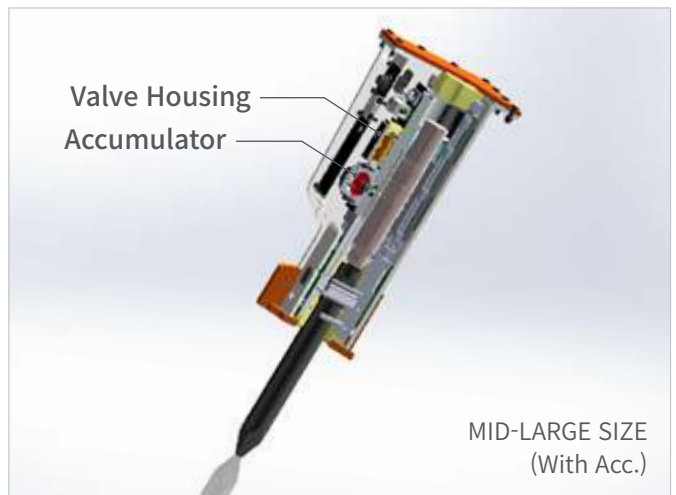
## STRUCTURE & FEATURES

- Back head**  
 Larger gas chamber design brings the high impact power.
- Piston**  
 Excellent durability and long life span by using high quality material and special heat-treatment technology. Higher impact power with extended piston stroke.
- Cylinder**  
 Optimized cylinder groove design and unique balance and ratio improve anti heating of oil temperature and make stable operation possible and reduce the damages like scratches.
- Valve**  
 Low-resistance reduces the hydraulic fluid temperatures which increase the efficiency.
- Valve adjuster**  
 Hammer BPM can be adjusted by the changing the turns of valve adjuster. Variable speed maximize the productivity of hammer. (from GBN170T to GBN400T)
- Accumulator**  
 Assist power stroke and protect the carrier pump from hydraulic pressure shock. (E, F series)
- Through bolt**  
 High level of raw material adopting on through bolts to improve durability and help better supporting whole hammer body structure in stable.
- Tool retainer**  
 Long tool pin protects the front head from blank firing and has a long life. Dual tool retainer pins ensures correct tool alignment and dispersion of tool wear. (GBN100T above)
- Housing**  
 Optimized housing design by 3D modeling and lower side is reinforced by high abrasion-resistant steel. Applying Round box design which has a better durability.
- Wearing Plates and Buffers**  
 Absorbs vibration to prevent impulses between carrier and hammer, also increasing durability of hammer housing and spare parts' life time. (Silenced type breaker)
- GB Tool**  
 All GB tools are manufactured in own facility under strict quality control by using premium quality material.

### INTERNAL VALVE TYPE



### EXTERNAL VALVE TYPE



# Fully Hydraulic type Breaker

- Acceptable for large range of flow
- Wide Carrier Versatility
- Easy operation for not only operator but also carrier
- Decreasing maintenance cost with increasing life of consumable parts
- Low Recoil System for Carrier operator's agreeable condition

### Pressure Regulator

Ensures proper operating pressure at any flow rate within the specification range.

### Piston

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

### Accumulator Ass'y

Membrane-type accumulators assist with power stroke and provide protection against hydraulic impact while the sealed nitrogen minimizes and guarantees constant production.

### Control Valve for Carrier Protection

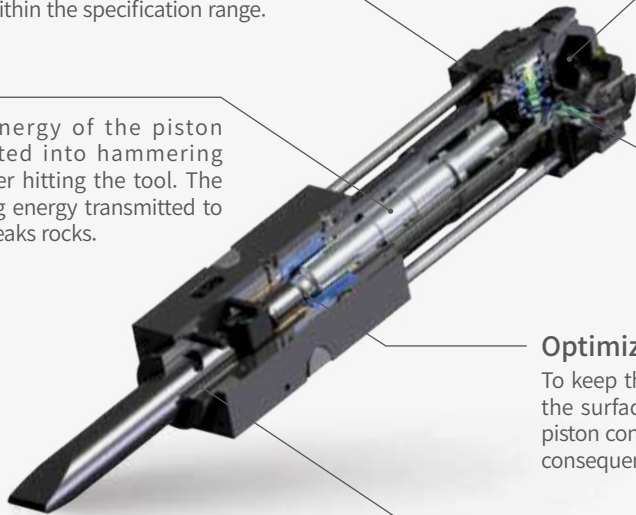
It occurs frequently various changes of oil pressure inside of hammer during the operation. This valve can block any damage from the high impact energy causing of changes of oil pressure against to excavator.

### Optimized Piston Design

To keep the most efficiency of power, the piston is in contact with the surface to the tool for energy transfer. Kinetic energy of the piston converted into hammering energy when the hits the tool and consequently rock is broken effectively.

### Easy Maintenance for Long Life

This slip fit lower tool bushing is designed for easy field replacement and can be rotated 90 degrees for extended service life.



## Option

### 1) Auto grease pump (All model)

| Description          | Model   | FULL Hydraulic Model |                 |                 |                 |                 |                  |                  |                   |
|----------------------|---------|----------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|-------------------|
|                      |         | GBN SERIES           | GBN150H         | GBN180H         | GBN210H         | GBN260H         | GBN300H          | GBN380H          | GBN480H           |
| Operating weight     | Kg      | 1,123                | 1,500           | 1,874           | 1,920           | 2,396           | 3,006            | 3,920            | 4,682             |
|                      | lbs     | 2,476                | 3,307           | 4,131           | 4,233           | 5,282           | 6,627            | 8,642            | 10,321            |
| Tool diameter        | mm/inch | 115/4.53             | 120/4.72        | 130/5.12        | 135/5.12        | 140/5.51        | 155/6.10         | 170/6.69         | 180/7.09          |
|                      | bar     | 140                  | 140             | 140             | 140             | 140             | 145              | 155              | 155               |
| Operating pressure   | psi     | 2,030                | 2,030           | 2,030           | 2,030           | 2,030           | 2,103            | 2,248            | 2,248             |
|                      | bar/psi | 175 / 2,538          | 175 / 2,538     | 175 / 2,538     | 175 / 2,538     | 175 / 2,538     | 185 / 2,683      | 190 / 2,756      | 190 / 2,756       |
| Impact rate          | b.p.m   | 350~550              | 400~500         | 350~500         | 350~500         | 360~520         | 320~420          | 300~400          | 250~350           |
| Accumulator pressure | bar/psi | 40 / 580             | 40 / 580        | 40 / 580        | 40 / 580        | 40 / 580        | 40 / 580         | 40 / 580         | 40 / 580          |
| Back pressure        | bar/psi | 5 / 73               | 5 / 73          | 5 / 73          | 5 / 73          | 5 / 73          | 5 / 73           | 5 / 73           | 5 / 73            |
| Required oil flow    | lpm     | 70~110               | 110~150         | 120~160         | 120~160         | 160 / 230       | 170~240          | 190~250          | 220~350           |
|                      | LPA     | 94                   | 95              | 95              | 95              | 96              | 97               | 98               | 99                |
| Noise level          | LWA     | 122                  | 122             | 123             | 123             | 124             | 125              | 126              | 127               |
|                      | ton     | 13.0~20.0            | 18.0~25.0       | 21.0~30.0       | 21.0~31.0       | 26.0~38.0       | 33.0~48.0        | 43.0~63.0        | 52.0~75.0         |
| Suitable excavator   | lbs     | 29,708 ~ 44,562      | 39,681 ~ 55,113 | 45,444 ~ 66,100 | 46,317 ~ 67,370 | 58,102 ~ 84,512 | 72,894 ~ 106,028 | 95,058 ~ 138,266 | 113,536 ~ 165,144 |



## Auto greasing system(Option)

- Available from GBN70T model and above.
  - Cartridge type/Rechargeable type are available
- Rechargeable type : can be fitted with all models  
 Cartridge type : For Internal valve type only



## GB Bracket Type



## GB Tool

GB supplies the right tool for tour every job!

- GB Tool are manufactured only with the highest quality materials, excellent workmanship
- and state-of-the-art heat treatment technology to ensure outstanding performance and durability.
- The tools are made in our own factory, equipped with various cutting-edge technology and machines.



- Fine / medium concrete demolition, non-stratified rock
- Secondary mining of soft / medium blocks



- All type of digging or narrow trenching of soft / medium stratified rock



- Breaking blocks ( up to medium hardness ) or cutting blocks to size



- Universal tool



## GB FACILITIES



### Quality Materials + Quality Control = Quality Guaranteed Products

GB uses only the highest quality materials which are machined by our experienced technicians utilizing state-of-the-art manufacturing technology and production machinery.



GB's stringent quality control procedures ensure superior quality hydraulic hammers.

- Precision machining
- Strict monitoring of temperatures and time intervals for multi-phase heat treatment processes
- Precision welding of hammer holders, hammer brackets and adapters
- Stringent, continuous quality control checks and comprehensive final testing of all GB hydraulic hammers prior to delivery

### <PRODUCTION PROCESS OF GB TOOL>



# Attachment

## 1. Quick Coupler

- The strongest durability on the same class
- Double safety device
- Reduce the working hours with fast removable coupler
- Enough space for the safety pin



| Description        | Model | unit | Fixed type |           | Free type |         |         |         |         |
|--------------------|-------|------|------------|-----------|-----------|---------|---------|---------|---------|
|                    |       |      | GL300F     | GL400F    | GL30FR    | GL50FR  | GL80FR  | GL130FR | GL200FR |
| Weight             |       | kg   | 420~430    | 450~580   | 30~40     | 50~60   | 80~100  | 120~130 | 280~290 |
| Length             |       | mm   | 1020~1050  | 1120~1140 | 306~475   | 490~540 | 610~640 | 780~800 | 880~910 |
| Height             |       | mm   | 513~520    | 540~555   | 230~268   | 260~280 | 330~340 | 380~390 | 440~450 |
| Width              |       | mm   | 520~590    | 550~660   | 175~245   | 270~285 | 330~340 | 370~400 | 470~490 |
| Equipping distance |       | mm   | 470~510    | 530~580   | 90~200    | 230~280 | 260~310 | 360~390 | 440~475 |
| Pin diameter       |       | φ    | 80~90      | 90~120    | 25~40     | 45~50   | 50~60   | 50~70   | 70~80   |
| Suitable carrier   |       | ton  | 25~33      | 34~50     | 1~3       | 3~5     | 5~8     | 9~16    | 17~23   |

## 2. Compactor

- High-quality oil pressure to all types of models
- All-in-one control valve blocking oil flow
- High efficiency in compacting the narrow ditch/trench works



| Description                 | Model | unit  | GC04            | GC06            | GC08                | GC10                |
|-----------------------------|-------|-------|-----------------|-----------------|---------------------|---------------------|
| Operating Weight            |       | kg    | 270             | 500             | 900                 | 950                 |
| Dimension(H x L x W)        |       | mm    | 700 x 450 x 725 | 975 x 600 x 900 | 1,265 x 800 x 1,200 | 1,350 x 900 x 1,300 |
| Plate Size                  |       | mm    | 450 x 725       | 600 x 900       | 800 x 1200          | 900 x 1,300         |
| Vibration per Minute (Max.) |       | v/min | 2,400           | 2,000           | 2,000               | 2,000               |
| Impact Force                |       | ton   | 1.8             | 4               | 10                  | 17                  |
| Operating Pressure          |       | bar   | 90~130          | 100~130         | 120~160             | 130~170             |
|                             |       | psi   | 1,305~1,885     | 1,450~1,885     | 1,740~2,320         | 1,885~2,465         |
| Required Oil Flow           |       | lpm   | 40~50           | 85~105          | 100~130             | 135~165             |
| Motor (U.S.A)               |       | type  | M124-20         | M5100-50        | M5100-63            | M5100-80            |
| Suitable carrier            |       | ton   | 2.0~7.0         | 6.0~15          | 18~25               | 24~35               |

### 3. SCRAP GRAPPLE (ROTATING TYPE)

| UNIT               |                |     | GBSG600 | GBSG800 | GBSG1000 | GBSG1200 | GBSG1500 | GBSG2000 |
|--------------------|----------------|-----|---------|---------|----------|----------|----------|----------|
| Weight             | ton            |     | 1       | 1.35    | 1.55     | 1.65     | 2.1      | 2.7      |
| Capacity           | m <sup>3</sup> |     | 0.6     | 0.8     | 1        | 1.2      | 1.5      | 2        |
| Operating pressure | Cylinder       | bar | 320     | 320     | 320      | 320      | 320      | 320      |
|                    | Rotating motor | bar | 150     | 150     | 150      | 150      | 150      | 150      |
| Required oil flow  | Cylinder       | LPM | 130     | 150     | 200      | 200      | 220      | 250      |
|                    | Rotating motor | LPM | 30      | 30      | 30       | 30       | 30       | 40       |
| Max opening        | mm             |     | Ø1,720  | Ø1,870  | Ø2,000   | Ø2,160   | Ø2,360   | Ø2,540   |
| Overall Height     | mm             |     | 1700    | 1,910   | 1,940    | 2,000    | 2,280    | 2,490    |
| Suitable excavator | ton            |     | 12~18   | 19~26   | 27~32    | 33~36    | 37~42    | 43~50    |

※ Standard : 5Tine

#### Tine type



Half-Enclosed type



Enclosed type



Opened type

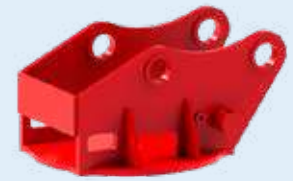
#### Bracket type



Half-Enclosed type



Enclosed type



Opened type

### 4. CRUSHER (ROTATING TYPE)

| UNIT               |                |     | GBMP050C | GBMP160C | GBMP200C | GBMP300C | GBMP450C |
|--------------------|----------------|-----|----------|----------|----------|----------|----------|
| Weight             | ton            |     | 0.62     | 1.1      | 2.1      | 2.8      | 4.2      |
| Operating pressure | Cylinder       | bar | 300      | 320      | 350      | 350      | 350      |
|                    | Rotating motor | bar | 80       | 150      | 120      | 150      | 150      |
| Required oil flow  | Cylinder       | LPM | 90       | 150      | 200      | 250      | 300      |
|                    | Rotating motor | LPM | 15       | 30       | 30       | 30       | 30       |
| Max jaw opening    | mm             |     | 310      | 780      | 980      | 1100     | 1250     |
| Suitable excavator | ton            |     | 4.5~8    | 12~18    | 19~26    | 27~36    | 37~48    |

### 5. PULVERIZER (ROTATING TYPE)

| UNIT               |                |     | GBPC05R | GBPC160R | GBPC200R | GBPC300R | GBPC450R |
|--------------------|----------------|-----|---------|----------|----------|----------|----------|
| Weight             | ton            |     | 0.55    | 1.4      | 2.1      | 3.3      | 4.2      |
| Operating pressure | Cylinder       | bar | 300     | 320      | 350      | 350      | 350      |
|                    | Rotating motor | bar | 80      | 150      | 150      | 150      | 150      |
| Required oil flow  | Cylinder       | LPM | 90      | 150      | 200      | 250      | 300      |
|                    | Rotating motor | LPM | 15      | 30       | 30       | 30       | 30       |
| Max jaw opening    | mm             |     | 508     | 730      | 820      | 1000     | 1100     |
| Suitable excavator | ton            |     | 4.5~8   | 12~18    | 19~26    | 27~36    | 37~48    |

※ The above product specifications are subject to change without notice to improve quality and performance.