

Advantage of “TOR Series”



KOMAC

Technology with Passion

Advantage of TOR Series



TOR
The lighter
The stronger

Advantage

- Auto-grease device with protection cover
- Under water application
- Super power
- No blank-firing
- Swivel hose
- Low noise
- Luxury design
- No stop pin

TOR series

KOMAC
TOR 23

KOMAC
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- Auto-greasing Device as Standard (All Model)
- Swivel Valve Application (S-Type)
- Blank-Firing Protection System (All Model)
- Under Water System (All Model)
- Durability Improvement
- Simple and Efficient Design

TOR Series VS KB Series

TOR & KB SERIES COMPARISON

KOMAC
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KB **TOR**

KB2000 = 430Kgf.m TOR23 = 490Kgf.m **13.9% up**

KB3600 = 625Kgf.m TOR36 = 758Kgf.m **21.3% up**

KB5000 = 1,250Kgf.m TOR55 = 1,310Kgf.m **4.8% up**

**UPGRADE
IMPACT POWER**

TOR MAIN FEATURE



TOOL PIN'S REMOVAL
PREVENTION



SWIVEL VALVE (S TYPE)



NO NEED STOP PIN



BLANK-FIRING
PROTECTION SYSTEM



REMOVAL OF
TOOL BUSH PIN'S HOLE



SIMPLE AND
EFFICIENT DESIGN

Feature of TOR Series

- Blank firing protection system to protect the parts
- Auto-Grease Device & protection cover
- Swivel valve block
- Noise control by using more silent frames
- Breakaway prevention of stop pin by invisible structure of tool pin



Perfect under
water system



- AUTO GREASE REFILL HOLE (Opened)



- BUILT-IN AUTO - GREASE DEVICE



- SWIVEL VALVE (S-TYPE)



- IMPROVEMENT OF COVER PLATE

KOMAC TOR Breaker

- Use Anti-Vibration Bolt in order to prevent breaking bolt.
- Long durability of Bracket by superior material use.
- Long life-cycle of Through Bolt by creative design.
- Strong Chisel by proper Heat-treatment
- Welded Set Plate Bracket to protect the Side Bolt from the Breakage.

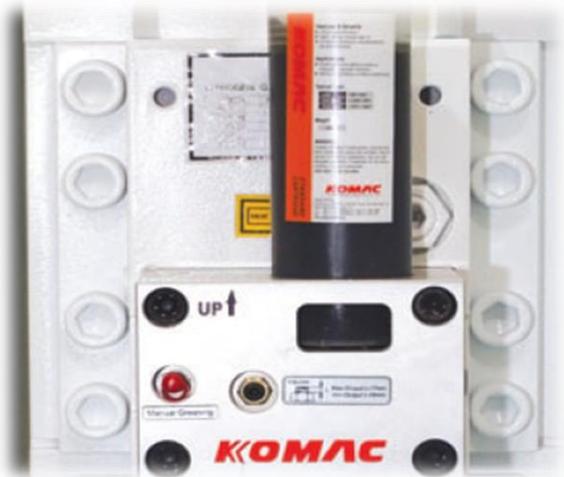
OTHER BRAND

- Easily broken normal steel bolt.
- Short term Bracket Durability.
- Easily broken through bolt.
- Easily worn-out by improper Heat-treatment.
- Side Bolt broken by Non-welded Set Plate.

Auto-greasing System (S-Type)



Auto-grease device can improve the efficiency of breaker's maintenance instead of using the existing manual typed grease injection.



- Built-in Auto-grease device

Built-in Auto-grease device to prevent its damage
Auto-grease device is installed on Valve Housing without hose.

Auto-greasing System (V-Type)



NEW
TOR-V5

The lighter
The stronger

KOMAC launched the world's first Auto Grease Device for "V" (Open) type.

- Auto-grease device with protection cover
- Enhanced durability
- Improved operating efficiency

Advantage

- Under water application
- Super power
- No blank-firing
- Luxury design

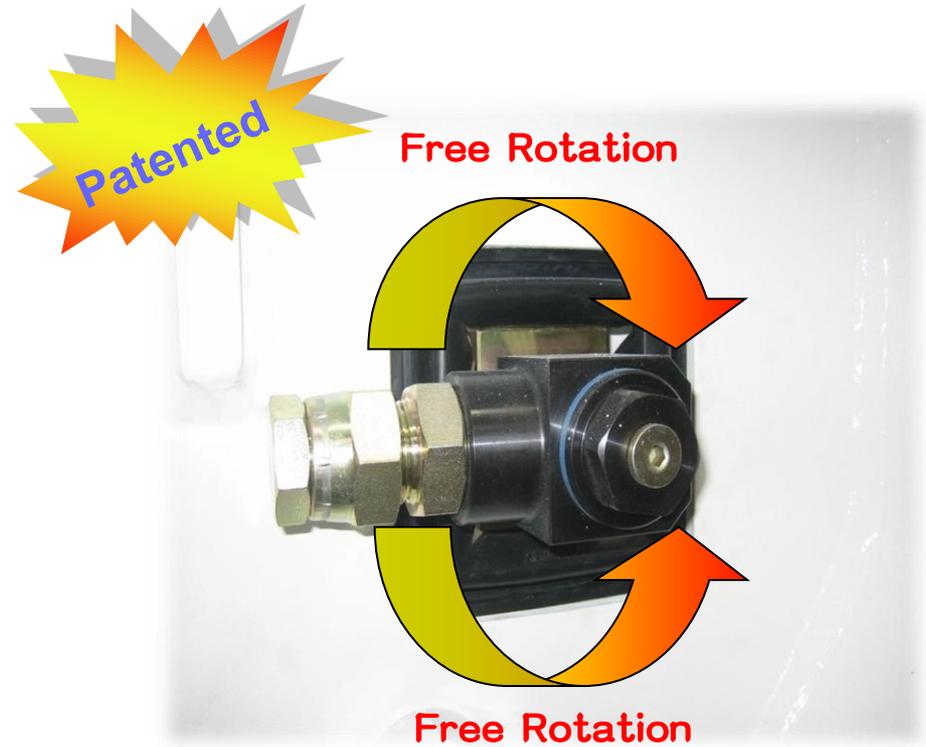
KOMAC 6th Fl., Shinseong Bldg., 25-4, Yeoksido-dong, Yeongdeungpo-gu, Seoul 150-711, Korea
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We have developed “V-Type Auto Grease Device” Breaker.

“V-Type Auto Grease Device” is the world ‘s first development by KOMAC R & D institute.

Auto Grease Device of “V” Type will improve a productivity of Breaker with increased life cycle of spare parts.

Swivel Valve application



This swivel valve prevents the damage of existing hose adapter or hose, which stems from the breaker's vibration.

Blank- Firing Protection System



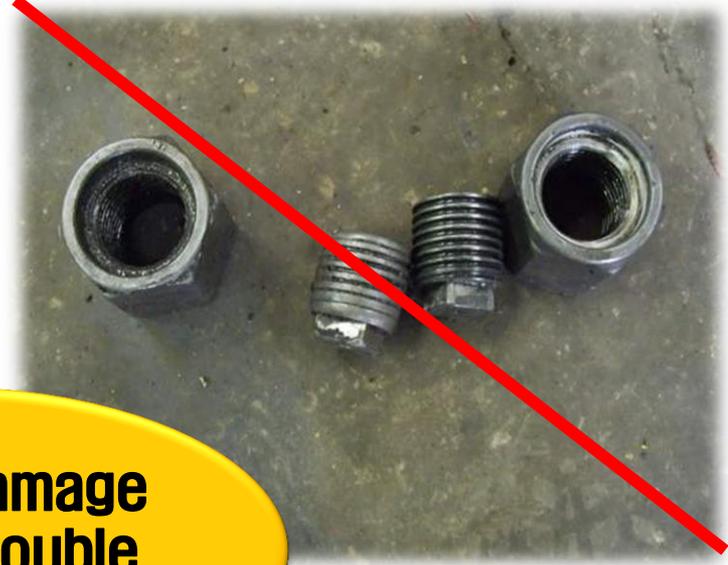
Not installed Blank-Firing Protection System



Installed Blank-Firing Protection System

Blank-Firing Protection System can protect the parts such as Tool Pin, Through Bolt and etc and can also extends the life of breakers.

Blank- Firing Protection System



**No more damage
No more trouble
No more stress**

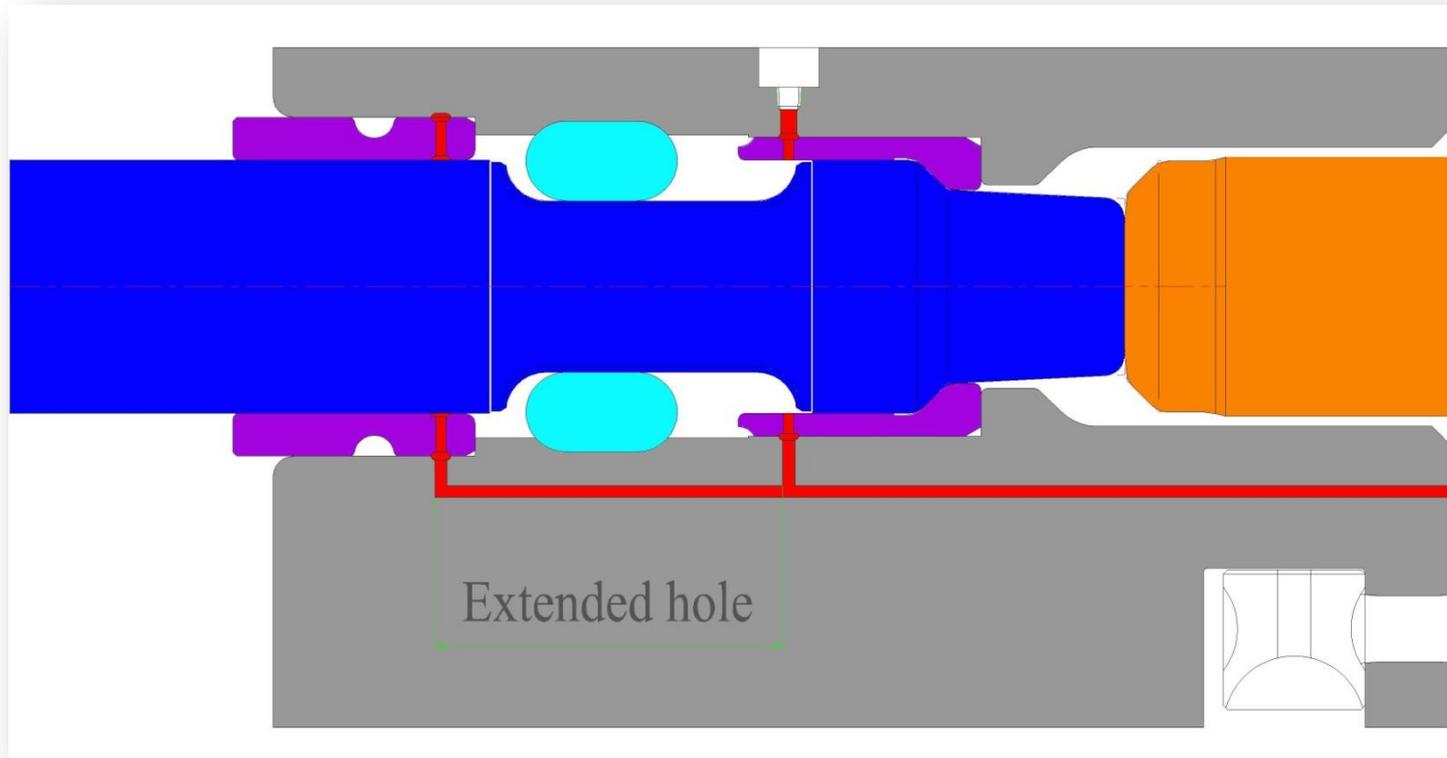
Blank-Firing Protection System can protect the parts such as Tool Pin, Through Bolt and etc and can also extends the life of breakers.

Under Water System



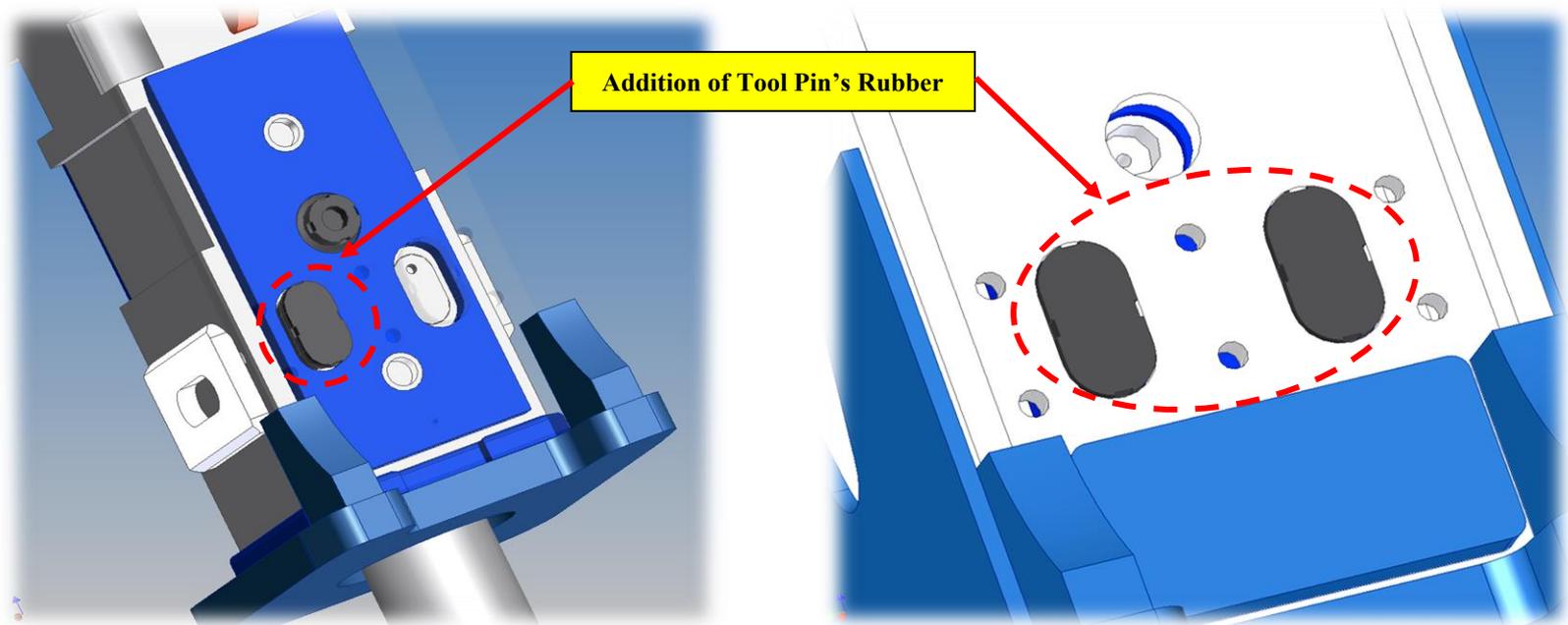
TOR Breakers are able to be operated under water after installing the air compressor to the Air Vent.

Improved durability



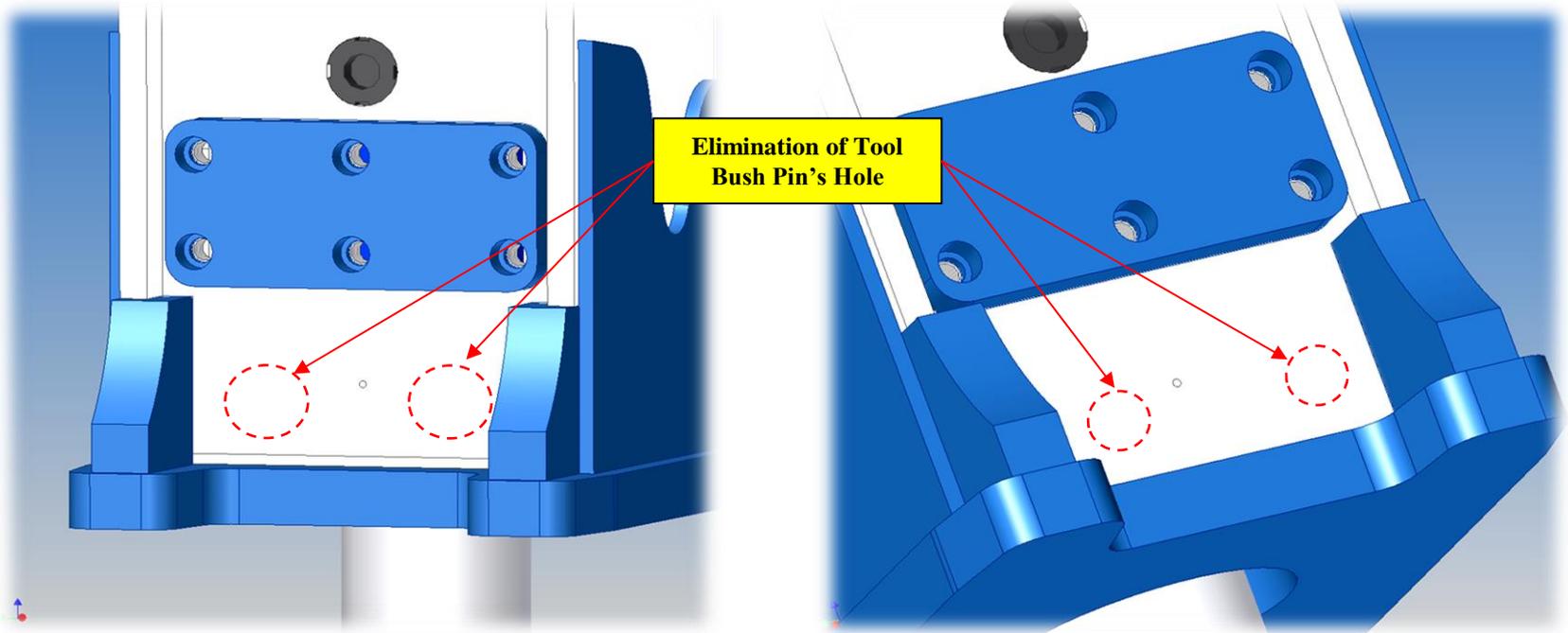
Lengthened life and durability of the Tool and Tool Bush by an extended grease hole to Tool Bush.

Tool Pin's removal prevention



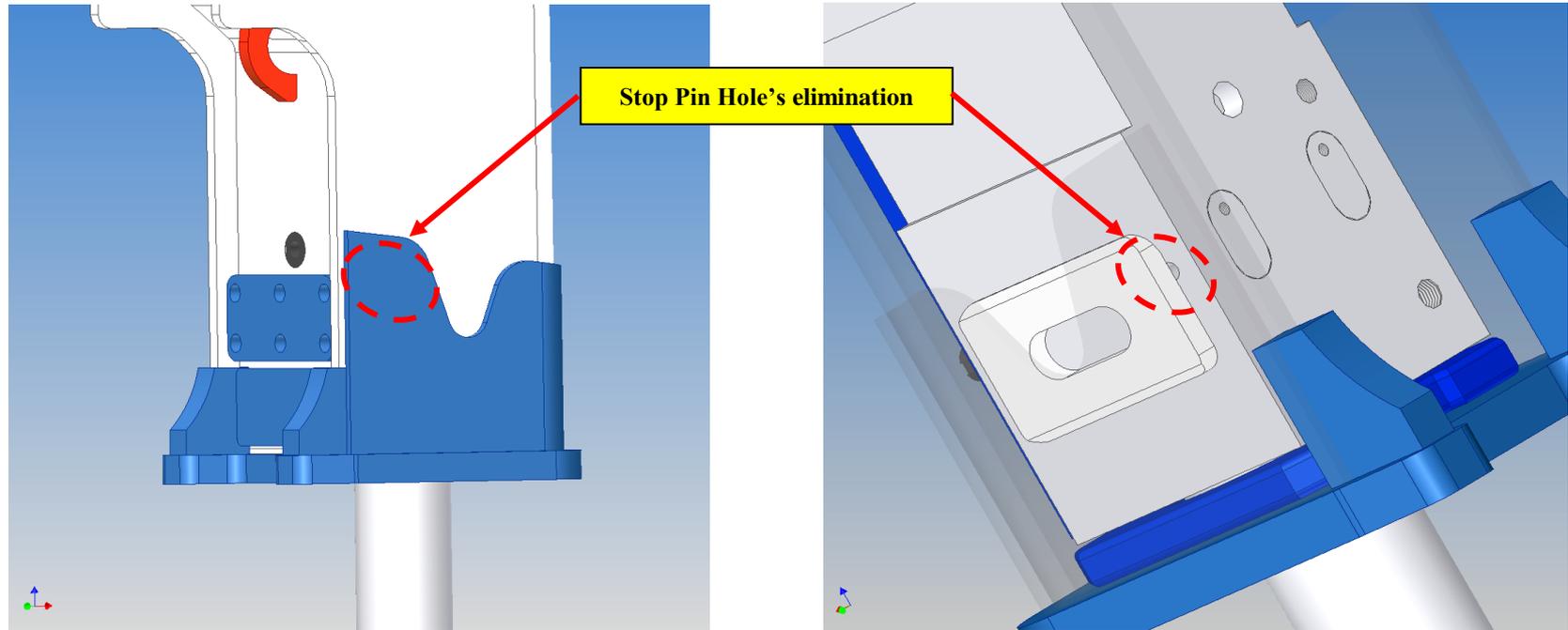
In case of the long operation of breakers, existing breaker's tool pin comes out from breakers. But, by using the Tool Pin's rubber, the noise and loss of Tool Pin can be prevented.

Removal of the hole of Tool Bush's Pin



In case of the long operation of breakers, existing breaker's pin of the tool bush comes out from breakers. But, by removing the hole for the Tool Bush's Pin, the noise and loss of Tool Bush's Pin can be prevented.

Removal of the hole of Stop Pin



In case of the long operation of breakers, existing breaker's stop pin comes out from breakers. But, by removing the hole of Stop Pin, , the noise and loss of Stop Pin can be prevented.

Simple & Efficient Design



Using the special steel plate on the bracket, the durability of breaker can be improved and life of TOR Series is extended. In comparison with existing breakers, the TOR Series' style is more simple & efficient.

NEW MODEL TOR26

Project name:
The best of same class



| ITEM / MODEL | UNIT | TOR26 | REMARK |
|---|--------|---------------|--------------|
| Selection of machine | ton | 22~30 | |
| | Lbs | 48,501~66,138 | |
| Operating Weight (Mount Cap+Rod) | Kg | 2,050 | |
| | Lbs | 4,519 | |
| Weight of Main Body | Kg | 924 | |
| | Lbs | 2,037 | |
| Requiring Oil Flow Rate | l/min | 150~180 | |
| Setting Pressure (of Machine) | bar | 210 | |
| | psi | 3,045 | |
| Operating Pressure (of Breaker / Hammer) | bar | 160~180 | |
| | psi | 2,320~2,610 | |
| Impact rate | bpm | 240~600 | |
| Impact Energy | Kg.m | 620 | |
| | Joule | 6,080 | |
| Rod/Chisel | Dia. | mm(inch) | 140(5.51) |
| | Length | mm(inch) | 1,200(47,24) |

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KOMAC
Technology with Passion

The Best of All of The Breaker!! ———

TOR 70



- 1) A perfect and complete blank firing protection system without additional device
- 2) Suitable for new series excavator ranging from 65 ton to 85 ton excavator
- 3) Built in auto-grease device to prevent its damage
- 4) Underwater operation system with simple structure



TOR70 Breaker

NEW MODEL
TOR 70



■ SPEC

| Item / Model | | Unit | TOR70 S | TOR70 V |
|---|--------|----------|-----------------|-----------------|
| Selection of machine | | ton | 65~85 | 65~85 |
| | | Lbs | 143,300~187,392 | 143,300~187,392 |
| Operating Weight (Mount Cap+Rod) | | Kg | 6,200 | 6,520 |
| | | Lbs | 13,668 | 14,374 |
| Weight of Main Body | | Kg | 2,800 | 2,830 |
| | | Lbs | 6,173 | 6,239 |
| Requiring Oil Flow Rate | | l/min | 300~400 | 300~400 |
| Setting Pressure (of Machine) | | bar | 240 | 240 |
| | | psi | 3,480 | 3,480 |
| Operating Pressure (of Breaker / Hammer) | | bar | 180~210 | 180~210 |
| | | psi | 2,610~3,046 | 2,610~3,046 |
| Impact rate | | bpm | 180~350 | 180~350 |
| Impact Energy | | Kg.m | 1,700 | 1,700 |
| | | Joule | 16,671 | 16,671 |
| Rod/Chisel | Dia. | mm(inch) | 195(7.67) | 195(7.67) |
| | Length | mm(inch) | 1,800(70.86) | 1,800(70.86) |

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