

# Advantage of “TOR Series”



**KOMAC**  
*Technology with Passion*

# Advantage of TOR Series



- 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

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**KB** **TOR**

KB2000 = 430Kgf.m	TOR23 = 490Kgf.m <b>13.9% up</b>
KB3600 = 625Kgf.m	TOR36 = 758Kgf.m <b>21.3% up</b>
KB5000 = 1,250Kgf.m	TOR55 = 1,310Kgf.m <b>4.8% up</b>

**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.

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# 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

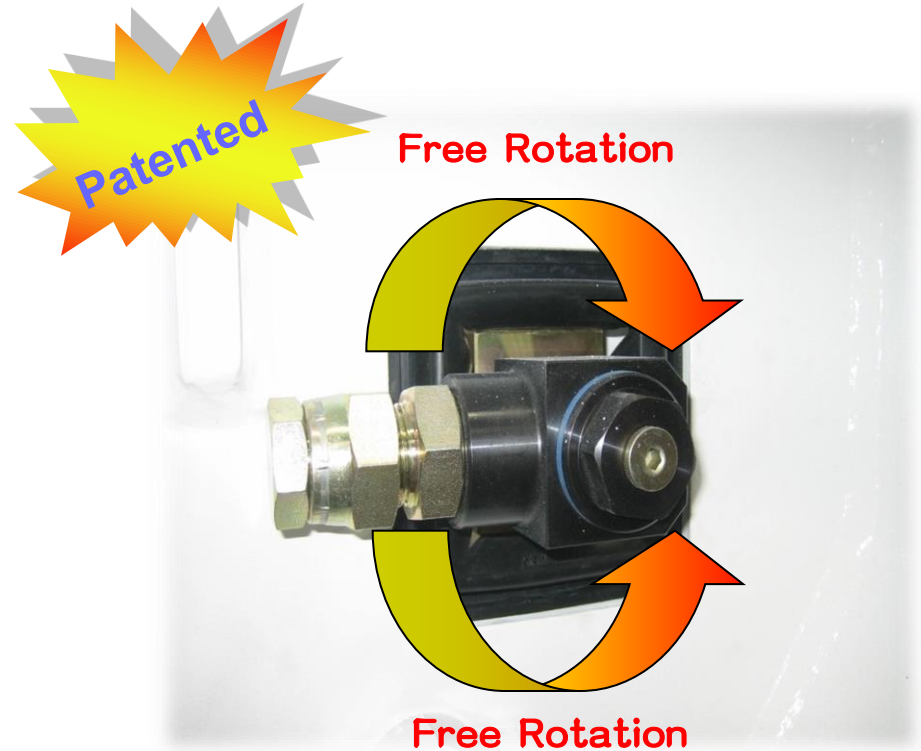
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We have developed “V-Type Auto Grease Device” Breaker.

“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.

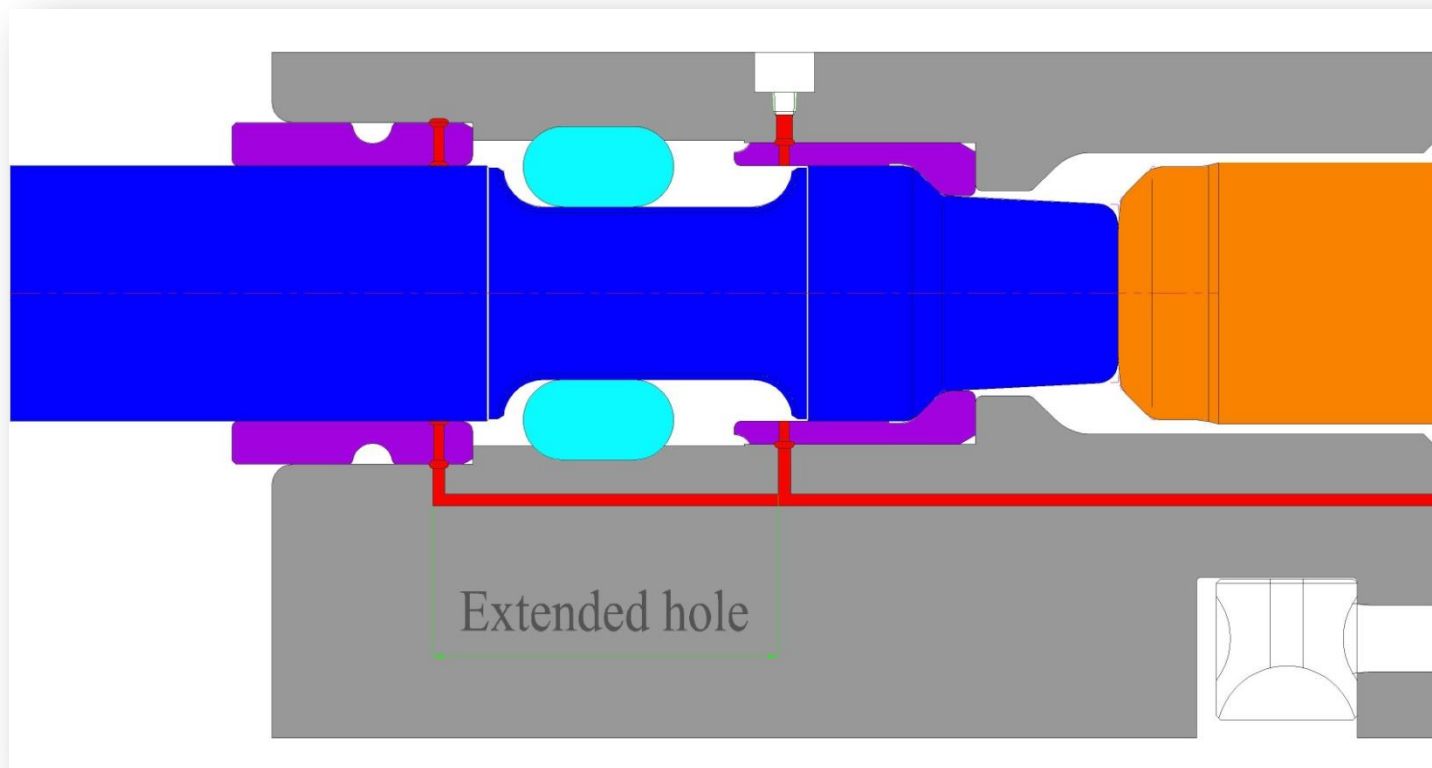


# Under Water System



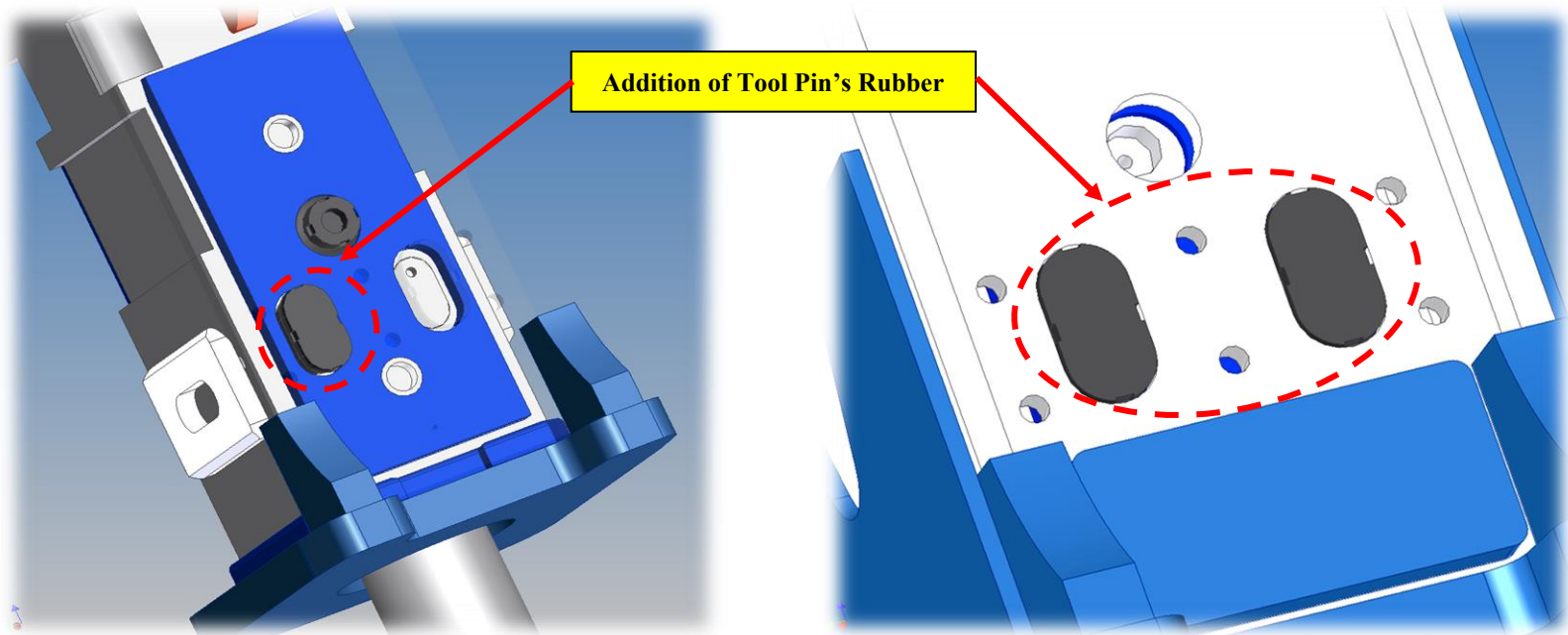
TOR Breakers are able to be operated under water after installing the air compressor to the Air Vent.

# Improved durability



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

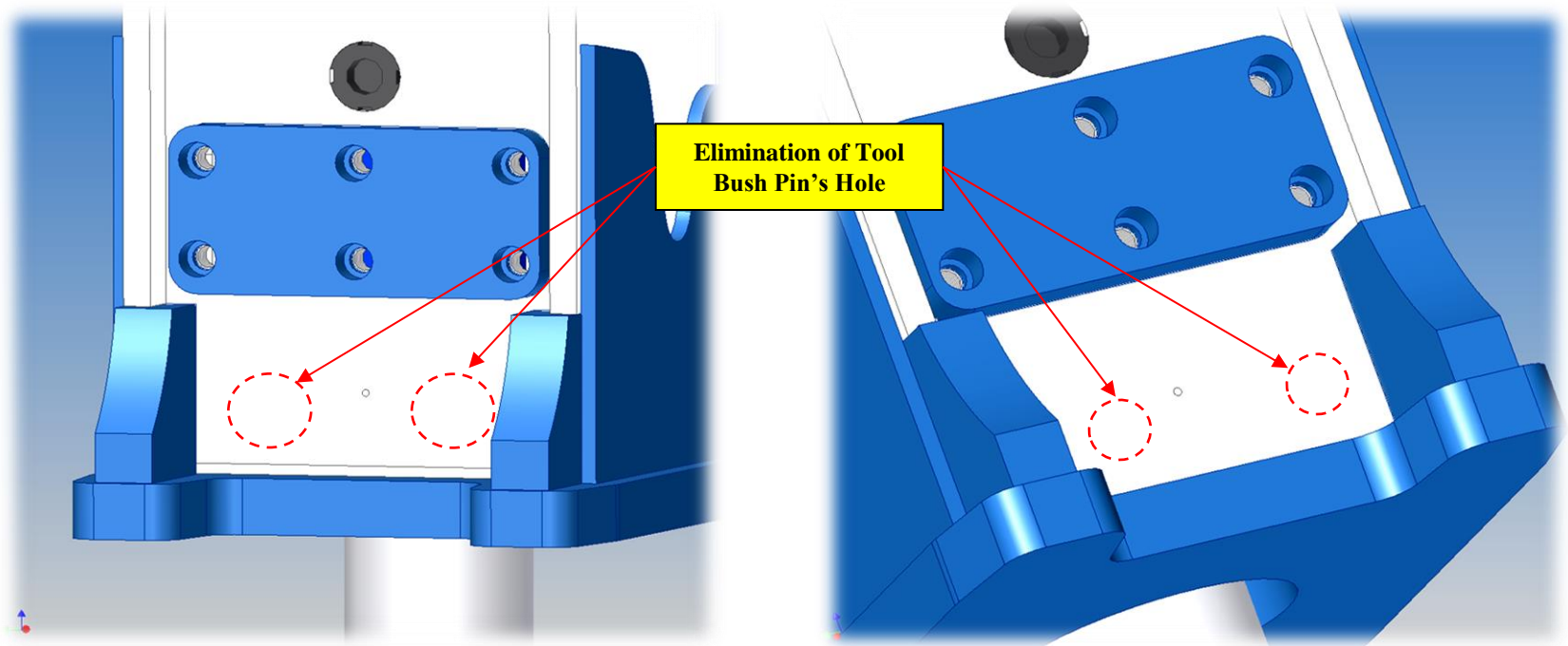
# Tool Pin's removal prevention



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.

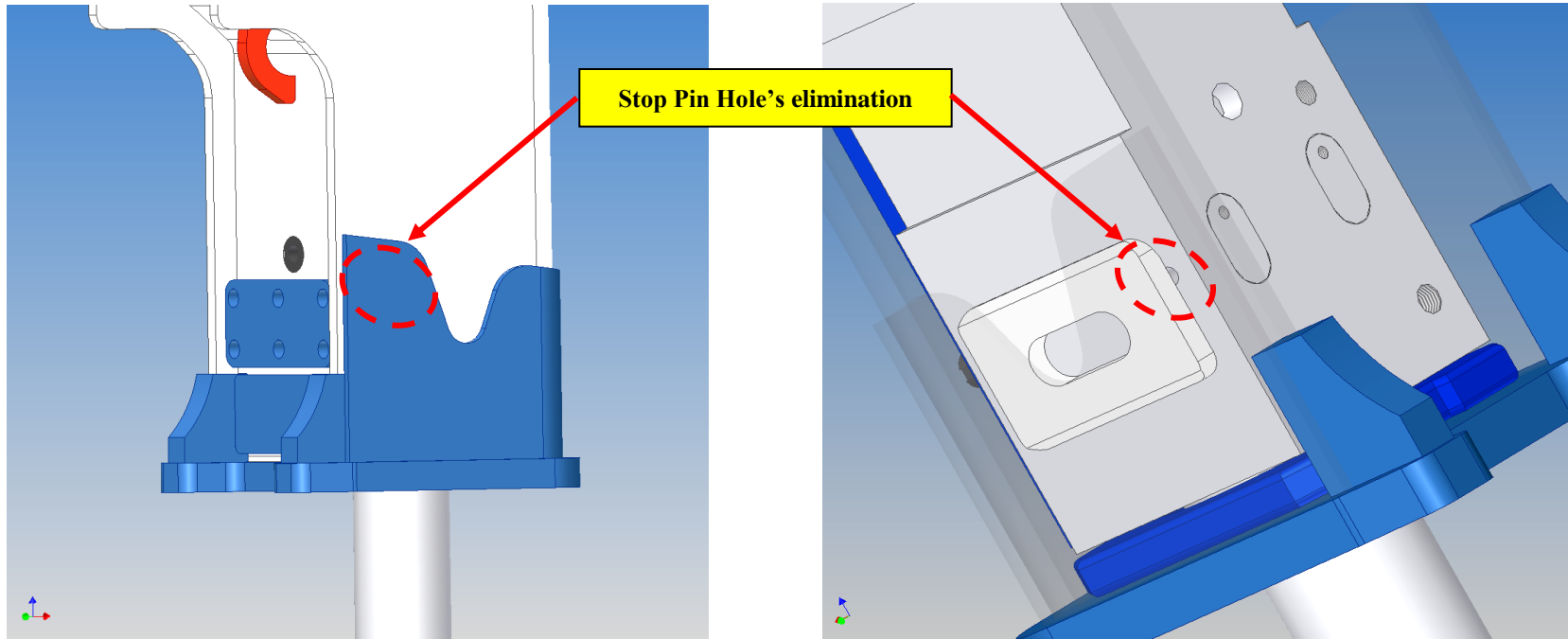


# Removal of the hole of Tool Bush's Pin



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

[www.komac.co.kr](http://www.komac.co.kr)

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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