

TNB-Hydraulic Breakers Features

- Advanced accumulator free technology enables simple structure yet efficient.
- Simple design allows less parts and realizes low running cost.
- Adaptable for wide range of oil pressure and flow.
- Auto grease system as optional. (TNB-7J, 151LU2, 30K, 40K and 400LU2)

Breaker body

Cushion Chamber: It is an important impact source since TNB-breakers source its **Impact Energy 70% from** Nitrogen Gas Pressure of cushion chamber and the rest of 30% from the Operation Oil Circuit.

Accumulator Free Breaker Structure allows easy and low cost maintenance.

Dust Preventing Valve takes cleaner air from upper area into the impact chamber and blows out the dusty air to bottom.

This valve port is also used for **Underwater Application** to lead the high pressure air from a compressor.

Direct and Independent Grease Supply to Chisel Bush and Chisel Holder Bush. A chisel is the most consumed item and this system contributes well for the long life of chisel

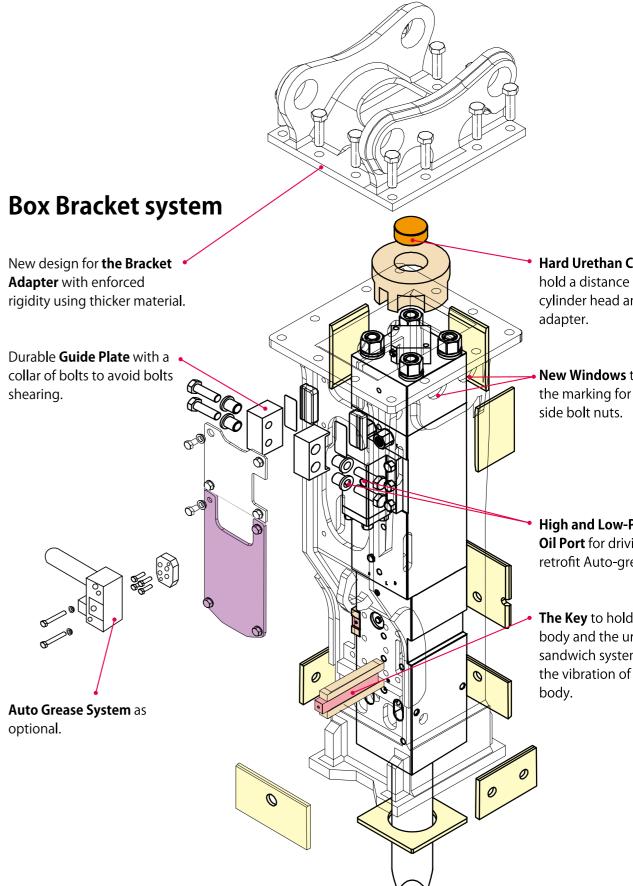
Durable Side Bolts: It has stress scattered structure and partially rubber coated for anti-vibration.

Short Oil Path: The oil path between control valve and cylinder is taken shortest as less as possible to avoid any secondary trouble.

Long Stroke Pistion: It gives more powerful impact energy and brings a stable breaker operation.

Dual Oval Retainer Pins are robust and guarantees correct tool aliignment and long life.

50/50 Piston to Tool Weight **Ratio** efficiently transfers blow energy into the material and reduces recoil.



Hard Urethan Core to hold a distance between cylinder head and bracket

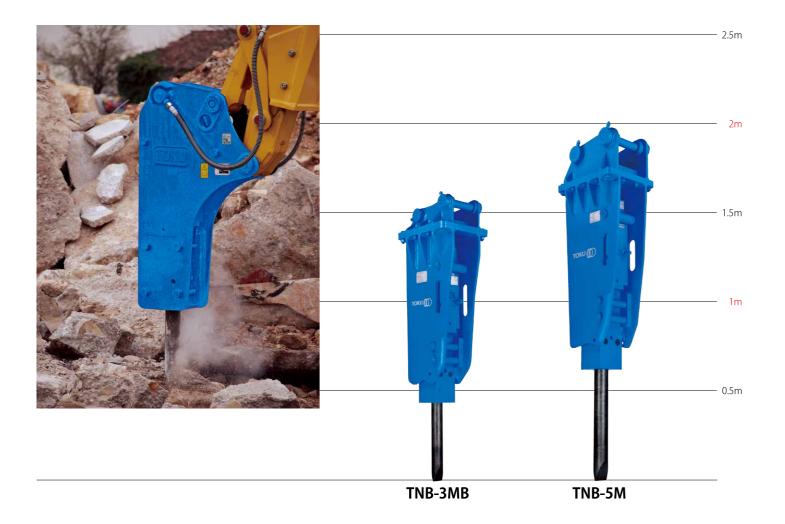
New Windows to check the marking for slack of

High and Low-Pressure Oil Port for driving a retrofit Auto-grease.

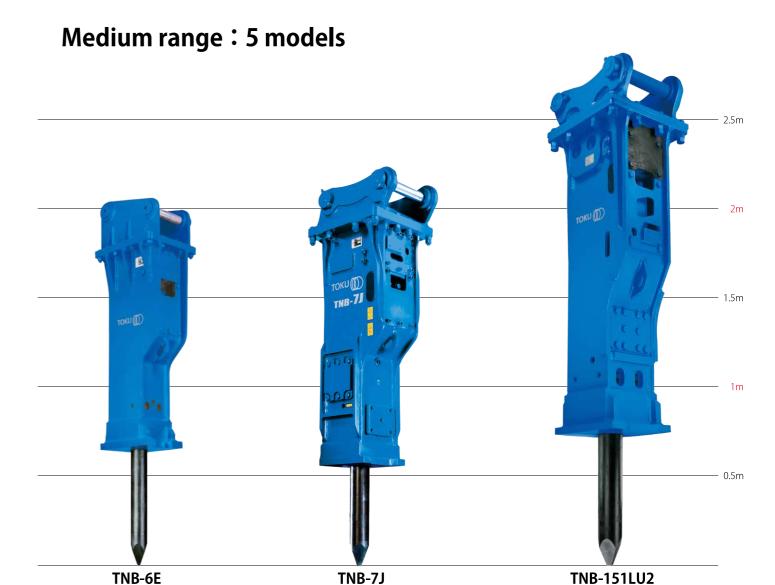
The Key to hold breaker body and the urethan sandwich system absoorbs the vibration of breaker

All 15 Models line up

Mini range: 6 models



MODEL		TNB-08M	TNB-1M	TNB-2M	TNB-3MB	TNB-4M	TNB-5M
Impact rate	bpm	930-1300	700-1200	600-1150	550-1000	580-1060	550-1000
Tool diameter	mm	φ40	φ45	φ50	φ58	φ64	φ75
Working weight *1							
2pc top mount type	kg	75	100	140	210	255	315
Box case	kg	85	125	170	250	340	400
Oil flow	L/min	18-25	20-30	20-35	25-45	30-55	35-60
Operating pressure	MPa	6-13	7-14	8-15	10-15	10-16	10-16
Hose I.D.	Inch	3/8	1/2	1/2	1/2	1/2	1/2
Gas pressure *2	MPa	0.8	0.8	0.8	0.8	0.8	0.8
Carrier range	ton	0.7-1.5	1-2	1.5-2.5	2.4-4	3-4.5	3.8-6

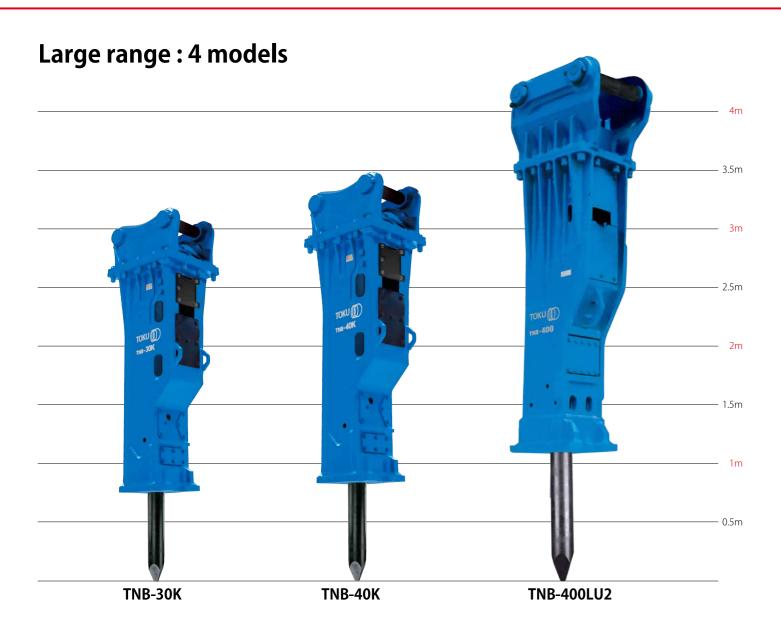


MODEL		TNB-6M	TNB-6E	TNB-7J	TNB-110	TNB-151LU2
Impact rate	bpm	600-1050	550-1000	450-720	430-600	450-630
Tool diameter	mm	φ75	φ95	φ105	φ115	φ135
Working weight *1						
2pc top mount type	kg	350	465	-	-	-
Box case	kg	440	585	950	1240	1800
Oil flow	L/min	40-70	45-80	80-120	100-140	160-200
Operating pressure	MPa	10-16	10-16	14-18	12-17	14-18
Hose I.D.	Inch	3/4	3/4	3/4	1"	1"
Gas pressure *2	MPa	1	0.8	0.9	0.8	1.1
Carrier range	ton	5.5-8	6-11	8-14	14-20	18-25

^{*1)} Working weight does not include bracket bushings and bracket pins.
*2) When the breaker body temperature is 40 °C (104 °F).

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^{*2)} When the breaker body temperature is 40 $^{\circ}$ C (104 $^{\circ}$ F).



MODEL		TNB-190LU2	TNB-30K	TNB-40K	TNB-400LU2
Impact rate	bpm	370-490	350-450	290-440	310-470
Tool diameter	mm	φ140	φ155	φ170	φ178
Working weight *1					
Box case	kg	2250	2880	3900	5100
Oil flow	L/min	160-210	180-230	240-300	280-390
Operating pressure	MPa	14-18	13-18	14-18	14-18
Hose I.D.	Inch	1"	1"	1"-1" 1/4	1"-1/4
Gas pressure *2	MPa	0.8	0.95	1.0	0.8
Carrier range	ton	20-30	27-40	40-53	45-70

Auto Grease System (Option)



Saving time for greasing!

About TOKU Auto Grease System

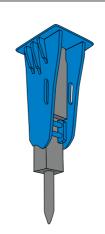
-Utilizing hydraulic high-pressure oil from base machine, TOKU Auto Grease System automatically supplies appropriate amount of grease to hydraulic breakers during breaker operation.

Reducing the running cost of hydraulic breakers!

Benefit of TOKU Auto Grease System

-By supplying appropriate grease to the breaker all the time during breaker operation, the wear of most consumable parts such as chisel bushing and retainer pins could be minimized, which extends lifetime of spare parts and reduces hydraulic breakers running cost.

Bracket type:

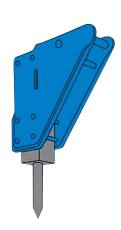


2 pc open box type

- ●Available for TNB-08M~TNB-6E
- ●Light weight type ●Easy maintenance

Box (silenced) type

- •Available for all models •Suitable for work in residential area



Side mount type

●Available for TNB-08M~TNB-30K ●Easy handling

Tool selection:

Туре	Purpose	Application	Shape			
Moil point	Largely breaking	Reinforced concrete rock bed				
Flat	Wedge action	Trenching and slope finishing				
Flat end	Large stone into small	Boulders and concrete				

[&]quot;Long type tools are available as option"

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^{*2)} When the breaker body temperature is 40 $^{\circ}$ C (104 $^{\circ}$ F).

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Main Plant



Kishima Plant



Minobaru Plant



Kiyama Plant



EMS 89393 / ISO 14001

Distributor