CHALO DESH BANAYE

TATA HITACHI

Reliable solutions

TATA HITACHI ATTACHMENTS

NEW ALICON SERIES ROCK BREAKERS

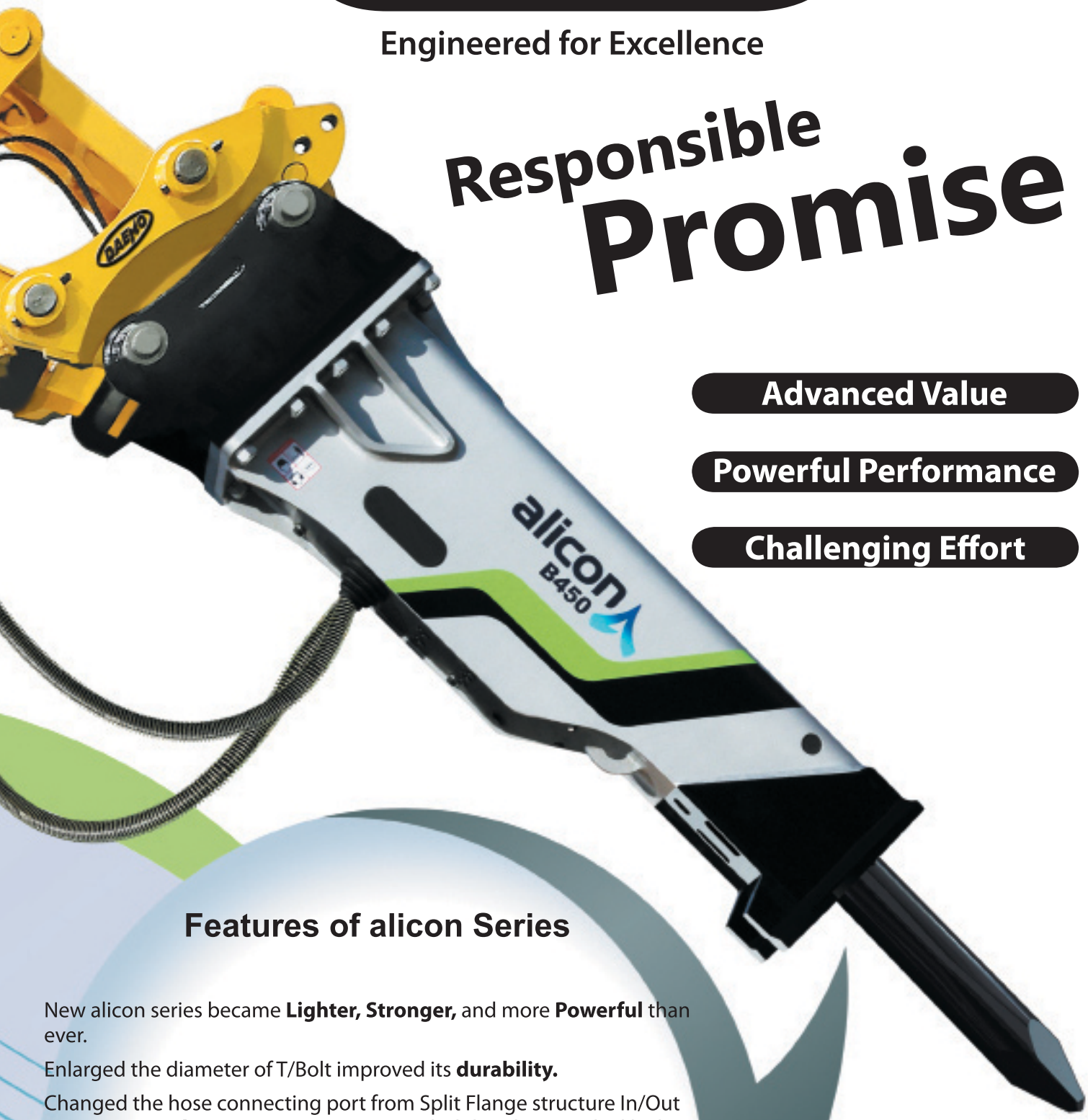
Engineered for Excellence

alicon Series Breakers

Anti Blank Firing
TPC
2 Stroke Control

Engineered for Excellence

Responsible Promise



Advanced Value

Powerful Performance

Challenging Effort

Features of alicon Series

New alicon series became **Lighter, Stronger,** and more **Powerful** than ever.

Enlarged the diameter of T/Bolt improved its **durability.**

Changed the hose connecting port from Split Flange structure In/Out port to **New Adaptor type port.** (Prevent bolt breakage and oil leakage : B10 ~ B1000)

Switched Box Housing to **Bending design** for more durability.

Diversified **19 products lines** to fit to any work conditions.

Redesigned chisel pin has improved durability.

Enlarged chisel's diameter improved more **powerful impact.**

Anti Blank Firing system increased the life of breaker (Chisel Pins, T/Bolts, F/Head, etc).

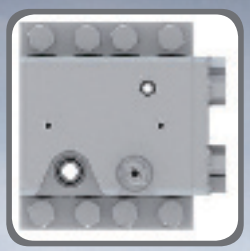
More options: Anti Blank Firing On/Off Valve, TPC system (2 stage stroke valve), Internal Relief Valve, BPM adjust Valve, Provision Hole for underwater works and Auto Grease System.

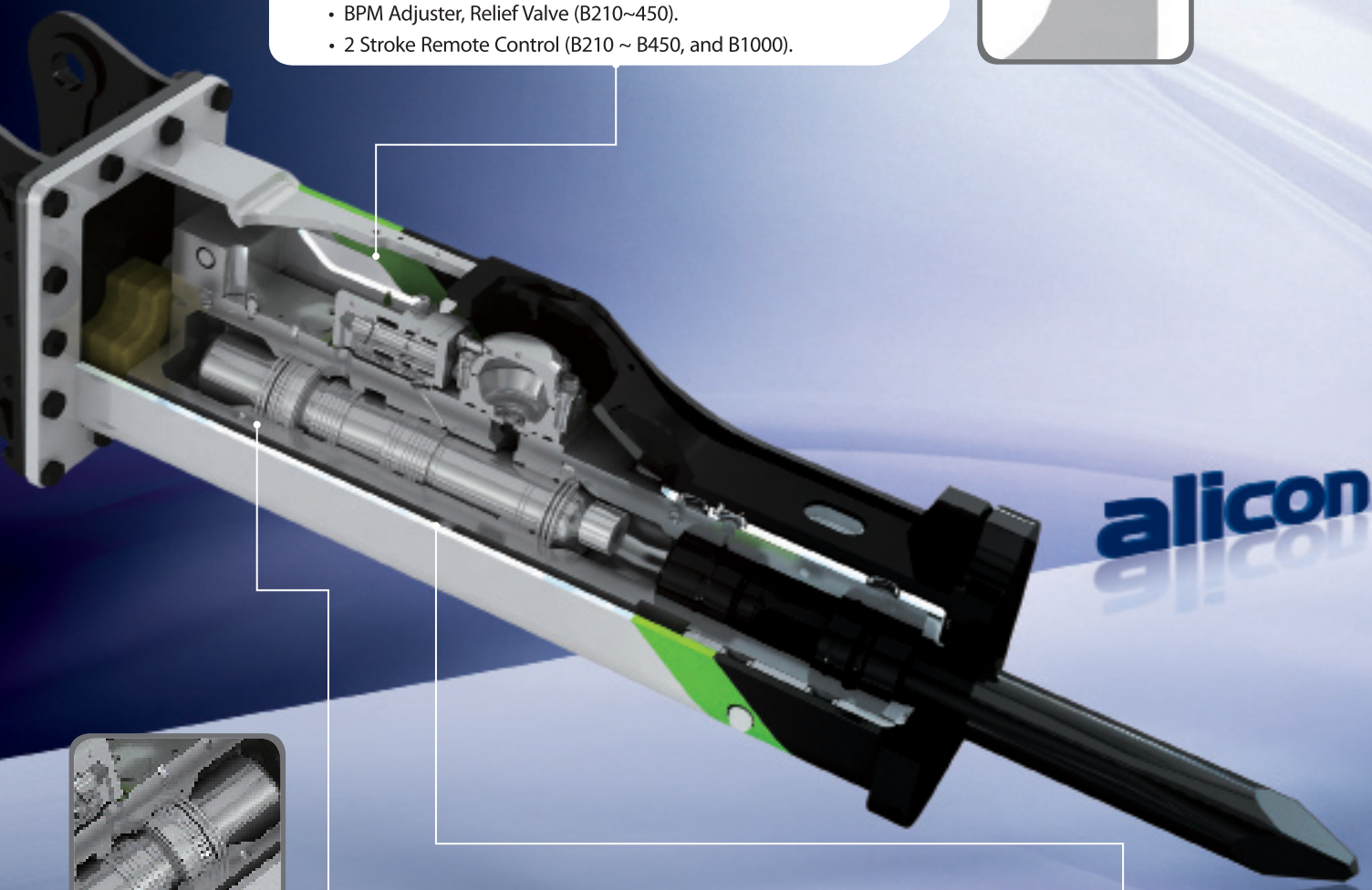
Anti Blank Firing
TPC
2 Stroke Control

alicon Series Breakers

Valve Case with TPC (Total Power Control) System

- Well-balanced Valve Case.
  - Shortened height & length, and wider width for stability.
- Durable Valve Plate.
  - Increased durability by using 6 bolts instead of 4.
- 2 Stroke Selector.
  - Flexible stroke according to your working condition.
  - Long stroke (Primary breaking) / Short stroke (Secondary breaking).
  - B50~180: located on Cylinder, B210~1000: located on Valve Case.
- Options for your better choice.
  - BPM Adjuster, Relief Valve (B210~450).
  - 2 Stroke Remote Control (B210 ~ B450, and B1000).





Seal System

- For longer life.
  - Using 100% NOK seals on the alicon series.
- Increased Durability.
  - Additional square buffer seal for B210 and upper models.
- Minimize piston's shaking action.

ABF (Anti Blank Firing) System

- Protect your breaker.
  - Chisel pins, T/Bolts, and F/Head can be protected from damage.
- Automatical operation.
  - ABF ON: Automatically STOP when blank iring.
- No additional cost.
  - Provide as a standard from B50 to B1000.

alicon Bracket Type

Top Box Type (Low noise)

Top Box Type (Standard)

Top Split Type

Side Type

Skid Loader Type

Backhoe Type

alicon Series Breaker Specification

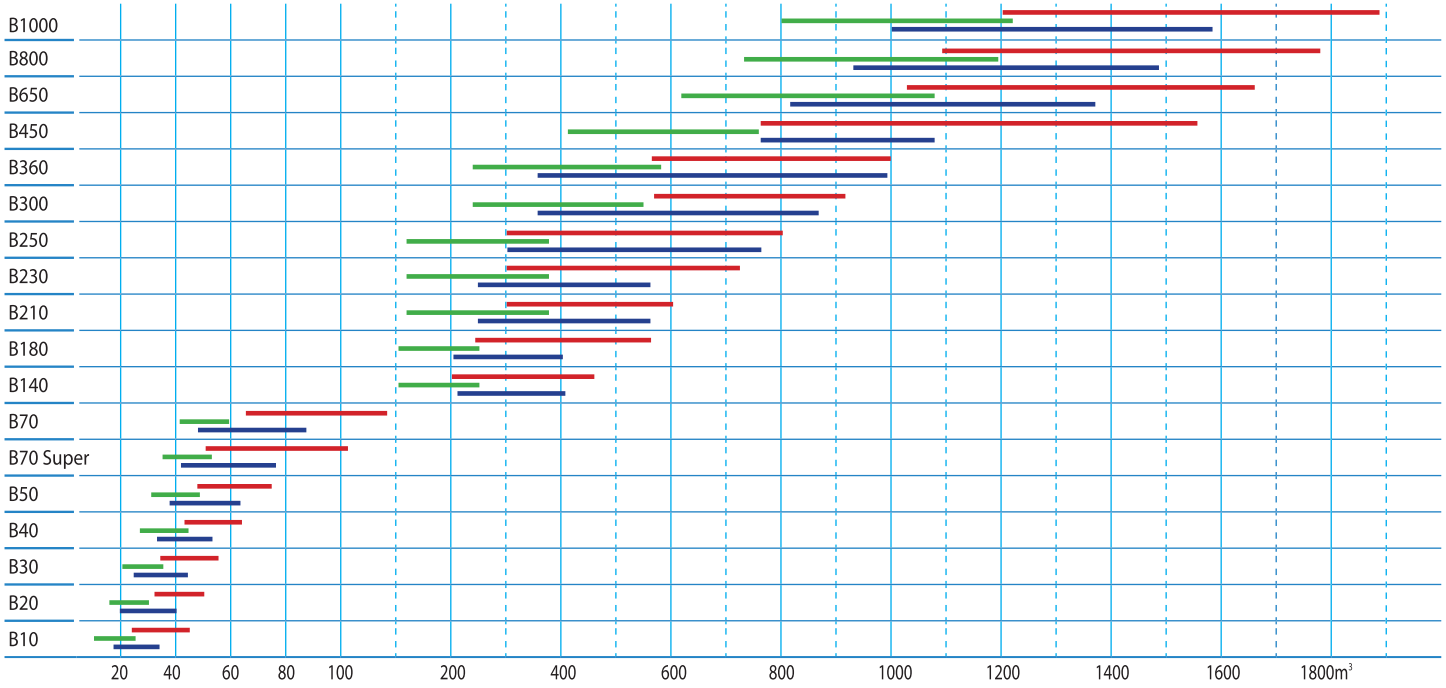
Item	Unit	B10	B20	B30	B40	B50	B60 Super	B70	B90	B140	B180	B210	B230	B250	B300	B360	B450	B650	B800	B1000
Operating Weight (Top Box BKT.)	kg	115	150	180	224	333	375	431	614	929	1209	1738	1777	2165	2832	2937	3713	4380	5625	6600
	lb	253	330	396	493	734	827	950	1354	2048	2665	3832	3918	4773	6243	6475	8186	9656	12401	14550
Overall Length (w/STD. MTG.BKT.)	mm	1110	1239	1334	1408	1603	1635	1805	1981	2225	2455	2764	2764	2898	3200	3200	3595	3766	4059	4875
	in	43.7	48.8	52.5	55.4	63.1	64.3	71.1	78	87.6	96.7	108.8	108.8	114.1	126	126	141.5	148.3	159.8	191.9
Overall Length (w.o/MTG. BKT)	mm	973	1090	1184	1258	1419	1451	1591	1760	1962	2153	2395	2395	2526	2790	2790	3173	3271	3505	4270
	in	38.3	42.9	46.6	49.5	55.9	57.1	62.6	69.3	77.2	84.8	94.3	94.3	99.4	109.8	109.8	124.9	128.8	138	168.1
Operating Weight (Side BKT.)	kg	-	-	-	162	271	291	380	513	773	1199	1647	1663	2020	2796	2806	3628	-	-	-
	lb	-	-	-	357	597	642	750	1131	1704	2643	3631	3666	4453	6164	6186	7998	-	-	-
Overall Length (Side BKT.)	mm	-	-	-	1192	1560	1620	1657	1842	1903	2094	2348	2348	2457	2732	2732	3070	-	-	-
	inch	-	-	-	46.9	61.4	63.8	65.2	72.5	74.9	82.4	92.4	92.4	96.7	107.6	107.6	120.9	-	-	-
Chisel Out Dia.	mm	40	45	53	62	70	75	78	85	105	120	135	140	145	150	155	165	180	200	220
	in	1.6	1.8	2.1	2.4	2.8	3	3.1	3.3	4.1	4.7	5.3	5.5	5.7	5.9	6.1	6.5	7.1	7.9	8.7
Chisel Length	mm	420	500	570	610	730	780	806	850	975	1165	1250	1250	1280	1400	1400	1650	1500	1700	1900
	in	16.5	19.7	22.4	24	28.7	30.7	31.7	33.5	38.4	45.9	49.2	49.2	50.4	55.1	55.1	65	59.1	66.9	74.8
Setting Pressure	kgf/cm²	150	150	150	150	170	180	180	190	190	210	210	210	210	210	210	210	240	240	240
	psi	2134	2134	2134	2134	2418	2560	2560	2702	2702	2987	2987	2987	2987	2987	2987	2987	3414	3414	3414
Working Pressure	kgf/cm²	70 ~110	80 ~120	80 ~120	100 ~140	100 ~140	100 ~140	100 ~140	100 ~140	120 ~160	120 ~170	130 ~170	130 ~180	140 ~180	140 ~180	140 ~180	140 ~180	150 ~190	150 ~190	175 ~200
	psi	996 ~1565	1138 ~1707	1138 ~1707	1422 ~1991	1422 ~1991	1422 ~1991	1422 ~1991	1422 ~1991	1707 ~2276	1707 ~2418	1849 ~2418	1849 ~2560	1991 ~2560	1991 ~2560	1991 ~2560	1991 ~2560	2134 ~2702	2134 ~2702	2489 ~2845
Oil Flow	lpm	15 ~30	20 ~40	25 ~45	30 ~50	30 ~55	35 ~70	45 ~80	50 ~100	90 ~110	100 ~140	110 ~160	130 ~170	150 ~210	180 ~250	180 ~250	200 ~280	280 ~400	320 ~450	380 ~455
	gpm	4.0 ~7.9	5.3 ~10.5	6.6 ~11.8	7.9 ~13.2	7.9 ~14.5	9.2 ~18.5	11.9 ~21.1	13.2 ~26.4	24 ~29	26.4 ~37	29.1 ~42.3	34.3 ~44.9	39.6 ~55.5	47.6 ~66.0	47.6 ~66.0	52.8 ~74.0	74.0 ~105.7	322 ~119.9	100.4 ~120.2
Blow Rate (H/Speed)	BPM	600 ~1200	600 ~1200	600 ~1100	500 ~1000	350 ~900 (450 ~1000)	35 ~900 (450 ~1000)	350 ~850 (450 ~1100)	300 ~700 (550 ~950)	350 ~550 (500 ~750)	350 ~550 (450 ~600)	350 ~500 (450 ~600)	250 ~400 (350 ~500)	250 ~350 (300 ~450)	200 ~350 (300 ~480)	200 ~350 (300 ~480)	200 ~300 (300 ~450)	250 ~420 (300 ~500)	230 ~370 (300 ~480)	300 ~360 (300 ~475)
Back Head N_2 Gas Pressure	kgf/cm²	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	16	11	11
	psi	171	171	171	171	171	171	171	171	171	171	156	156	156	156	156	156	228	156	156
Suitable Exca.	ton	0.5 ~1.5	0.8 ~3	1.2 ~4	3 ~5	4 ~6	5 ~7	6 ~8	7 ~12	10 ~15	16 ~20	18 ~25	18 ~25	22 ~29	26 ~32	28 ~40	38 ~50	42 ~81	55 ~100	85 ~140
	lb	1102~ 3307	2205~ 5512	4409~ 8818	6614~ 9921	6612~ 17637	8818~ 17637	11020~ 17637	13228~ 19842	22046~ 33069	35274~ 44092	39683~ 55116	39683~ 55116	48502~ 63934	57320~ 70548	61729~ 79366	88185~ 110231	92594~ 178574	121254~ 220462	187393~ 308647

alicon Series Breakers - Application

Contents	B10	B20	B30	B40	B50	B70 Super	B70	B90	B140	B180	B210	B230	B250	B300	B360	B450	B650	B800	B1000
Underwater works	-	-	-	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto Greasing System Hole	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
TPC(Total Power Control) System Selector Type	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ABF(Anti Blank Firing) System	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto Greasing Unit	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●
Central Grease Supply Unit	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●
BPM Adjuster	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	-
Internal Relief Valve	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	-	-	-
TPC(Total Power Control) System Remote Control Type	-	-	-	-	-	-	-	-	-	-	●	●	●	●	●	●	-	-	●
Low Noise Housing Bracket	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Standard
Option

Productivity (8 hours per day)



Hard Sand Stone
Reinforced Concrete
Non-Reinforced Concrete

Productivity can be changed depending on operator's skill, using machine and job site condition.
The above data is reference purpose only.

Attachments for Every Requirement

Choice of Options

Auto Grease Bracket Mounted System

This system has many advantages:

- Save human negligence of filling grease.
- To greasing several times a day, manual control does not need.
- Contributing to longer machine life, especially for chisels.
- No extra power source to drive.
- Applicable breakers are from B60 to B1000.

2 Stroke Remote Control System

- 2 Stroke Remote Control System is designed to be connected to Cabin conveniently so that operator can change the required stroke easily without wasting time.(B210 ~ B450, and B1000)
  Improved performance.
- Reduced the amount of wasted energy.

Shape of chisel

Classification	Major Contents		
Moil			Concrete, Rocks, Pavements, Slopes
Wedge			Trench, Slopes, Finishing
Blunt			Quarries
Conical			Concrete, Rocks, Pavements

Choosing the chisel for diferent rock types

Classiication	Rock	Recommended Breakers	Recommended Chisels
Hard Rock	Basanite, Granite Diabase	B140 to B1000	Blunt type, Wedge type
Soft Rock	Sandstone, Limestone Coal	B10 to B1000	Moil type, Wedge type, conical type

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