SIZING THE BOOM & HAMMER

BTI (Breaker Technology) has been supplying the demanding needs of mining and quarry industries since 1958. Our experience has taught us that information and partnership combined with high quality equipment that give the best results. As such it's vital to consider several important factors when choosing your next pedestal rock breaker

Breaker Class

Breaker power required is determined by the hardness, toughness and size of material to be broken. The size of your crusher or grizzly also affects the selection size of breaker.

Boom Model

The boom you choose to carry the selected breaker depends on its ability to provide full coverage of the area where material will require breaking, racking or clearing.

Power Packs

Power packs are matched to the hammer and boom to achieve optimal performance and reliability, based on your particular operating circumstances.

Our systems offer flexibility that allows for safe, effective operation from almost anywhere:

200 ft. (60 Electric-hydraulic controls:

Radio remote control:

Camera assisted coaxial cable: (457 m) 1,500 ft.

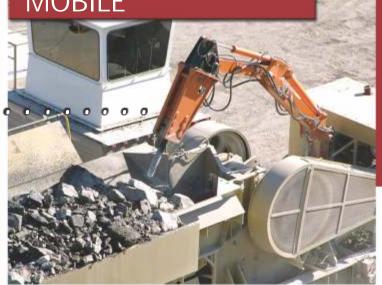
Fiber optics:

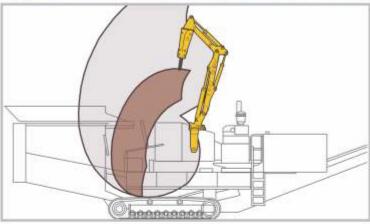
7 miles (11.2 km)

325 ft. (100

To aid in good planning and cost control, our technician can advise about service personnel, hoist crane requirements and installation considerations from electrical to Hydraulic systems. In addition, BTI can recommend on any need local support you may need. Once you have reviewed the above areas, BTI will assist you in fine tuning your selection with the creation of a in-house site layout and related engineering package.







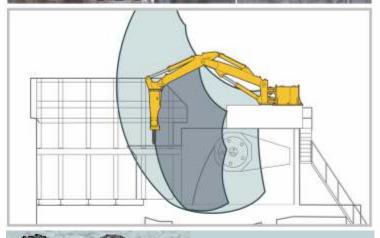


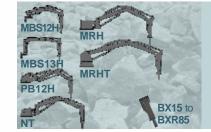
Mobile crushers are, as the name implies, designed to be moved from site to site. An appropriate sized breaker system will mount on the crusher securely so the crusher can be moved without first dismantling the breaker assembly yet be large enough to handle the raking and breaking operations required.

MRH20 | MRH25 | MRH30 | MRHT16 | MRHT20 | MRHT25

Turntable/330°

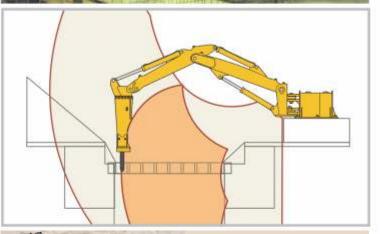






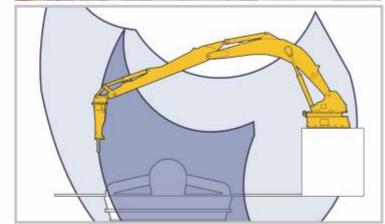
Jaw crushers and impact jaw crushers are most often fed from a rock box using a vibratory feeder. A rock breaker should be positioned to assist with raking rocks into the crusher, reduce oversize, and to be able to reach into the crusher to assist with processing and clearing jams.

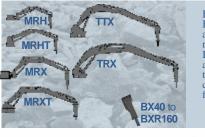






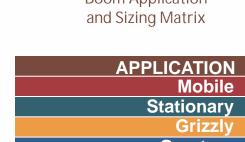


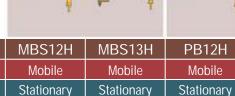




Big jobs need big booms and breakers. BTI's wide range of gyratory booms rock box and mouth of the Crusher BTI's complete line of large hammers are designed specifically for gyratories to quickly eliminate any bridging or clogging, restoring consistent material flow to the crusher.

Boom Application



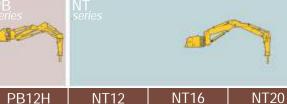


MBS13H

(2915-3785)

7' 2" (2.2)

12' 11" (3.9)



NT12

(4715-5722)

9' 10" (3.0)

13' 2" (4.0)











MRX24



MRX30







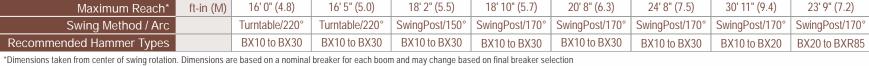
MRX36





Stati	Stationary									
G	Grizzly									
Gyı	atory									
Boom Model										
Operating Weight Range Complete System	LB (Kg)									
Vertical Reach*	ft-in (M)									
Horizontal Reach*	ft-in (M)									

Vertical Reach*	ft-ir
Horizontal Reach*	ft-ir
Maximum Reach*	ft-ir
Swing Method / Arc	
Recommended Hammer Types	



NT16

(4829-6434)

12' 10" (3.9)

15' 1" (4.6)



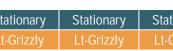












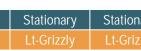


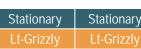
(4943-5950)

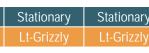
16' 2" (4.9)

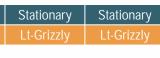
19' 1" (5.8)

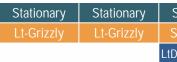
24' 8" (7.5)

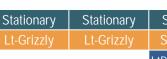


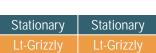


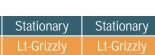


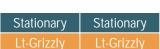


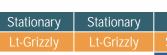


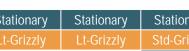


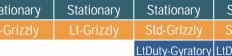


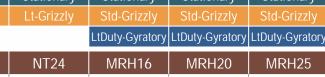






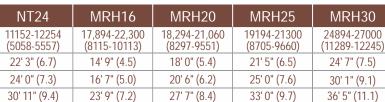






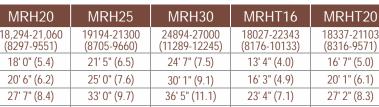
MRH16

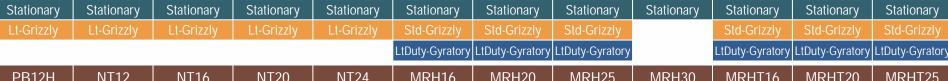


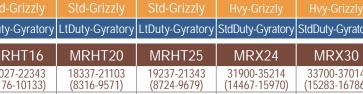


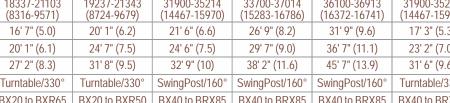


SwingPost/170° | SwingPost/170° | SwingPost/150° |







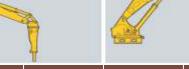




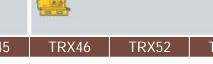
















tDuty-Gyratory|LtDuty-Gyratory|LtDuty-Gyratory|StdDuty-Gyratory|StdDuty-Gyratory|StdDuty-Gyratory|StdDuty-Gyratory|HvyDuty-Gyratory|HvyDuty-Gyratory|HvyDuty-Gyratory|HvyDuty-Gyratory|HvyDuty-Gyratory|HvyDuty-Gyratory|HvyDuty-Gyratory TRX58 TTX40 TRX46 TRX52 109500-115600 21585-23217) (22291-23334) (49668-52435) (22884-23927)



PB12H

(4080-5020)

11' 11" (3.6)

12' 5" (3.8)



7' 11" (2.4)

11' 7" (3.5)

POWER PACKS



BTI's electric over hydraulic power packs engineered for mine duty applications provide accurate hydraulic flow and pressure for the boom and breaker. Power packs come with a full array of standard and optional features designed to optimize performance.

					1							designed to optimize performance.				
Power Pack Model	PP 50-30	PP 50-40	PP 100-30	PP 100-40	PP 100-50	PP 100-60	PP 100-75	PP 100-100	PP 100-125	PP 100-150	PP 200-100	PP 200-125	PP 200-150	PP 200-200	PP 300-300	
Boom Match Up	MBS	MBS	MBS,PB,NT	MBS,PB, NT	MBS,PB,NT MRH,MRHT		MRH, MRHT			MRH,MRHT MRX,MRXT		ТТХ	TTX	TTX TTX High Flow	TRX	
Breaker Match Up	BX8 to BX10	BX15	BX8 to BX10	BX15	BX20	BX30	BX40	BX40 to BXR50	BXR65	BXR85	BXR50	BXR65	BXR85	BXR50 to BXR120	BXR85 to BXR160	
Reservoir Volume US GAL (LITRE)	50 (190)	50 (190)	100 (380)	100 (380)	100 (380)	100 (380)	100 (380)	100 (380)	100 (380)	100 (380)	200(760)	200 (760)	200(760)	200 (760)	300 (1140)	
Power Requirements HP (KW)	30 (22)	40 (30)	30 (22)	40 (30)	50 (37)	60 (45)	75 (55)	100 (74)		150 (111)				200 (148)		
Pump Flow GPM (LPM)		27 (103)	14 - 20 (53 - 76)	27 (103)	29 (110)	37 (140)	42 (159)	42 - 51 (159 -193)	58 (219)	69 (261)	53 (200)	58 (219)	72 (272)	99 (374)	120 (454)	

POWER PACK OPTIONS



Standard Equipment

Swash plate piston pumps with load Swash plate piston purips with load sense / constant horsepower control Extra heavy duty all welded construction suitable from high vibration applications Pressurized fill cap with air filtration Suction strainers (on larger models) Full flow pressure filter with visual

indicator -ull flow return filter with visual indicator -looded pump inlet Clean out / inspection cover Fluid level indication

luid temperature indication

Drip tray Hand pump fill kit Electrical filter indication Extreme cold weather power pack
Extreme duty cycle and high temperature cooling Motor starter panel & power pack control

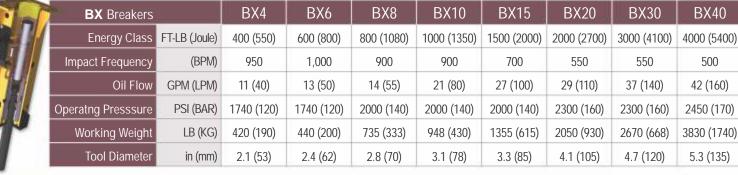
center
High / Low temperature Interlock High altitude hydraulic charging kit High altitude electric motor compensation emium efficiency electric motor

Optional Equipment

Immersion heater

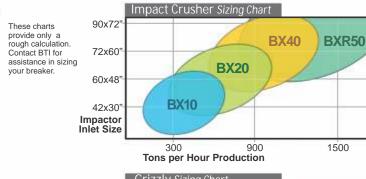
Explosion proofing Fire suppression systems Fire restraint fluid compatibility High horsepower / High flow pump motor Complete power pack enclosure

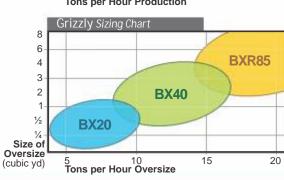
BREAKERS

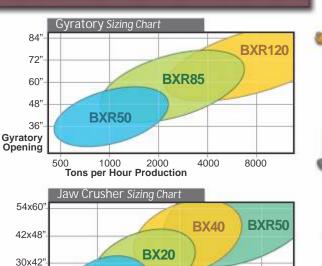


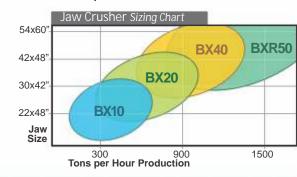
-								
	BXR Breakers	BXR50	BXR65	BXR85	BXR100	BXR120	BXR160	
	Energy Class	FT-LB (Joule)	5000 (6800)	6500 (8800)	8500 (11500)	10000 (13500)	12000 (16300)	16000 (2150
	Impact Frequency	(BPM)	561	487	426	460	413	318
	Oil Flow	GPM (LPM)	58 (220)	61 (230)	66 (250)	90 (340)	106 (400)	99 (450)
	Operatng Presssure	PSI (BAR)	2755 (190)	2755 (190)	2755 (190)	2755 (190)	2755 (190)	2755 (190)
	Working Weight	LB (KG)	4200 (1900)	4860 (2200)	6500 (2950)	7800 (3550)	9,050 (4100)	12400 (5,63
	Tool Diameter	in (mm)	5.5 (140)	6.0 (150)	6.3 (160)	6.7 (170)	7.1 (180)	7.9 (200)
-								

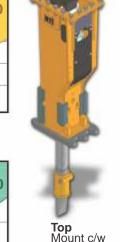
SIZING a BREAKER











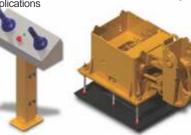
Side Mount

Top Mount c/w Severe Duty & Concave Removal Tool

Control systems
BTI's rockbreaker booms come standard with fully proportional electro-hydraulic control from twin joysticks operating a fully proportional, load sensing directional control valve providing precise and variable control of all boom functions. The basic system can be modified to suit many needs including additional control pendants for maintenance and long distance distance.

GENERAL OPTIONS

control pendants for maintenance and long distance



Optional Equipment

Stand mounted electric over hydraulic joystick

Portable electric over hydraulic joystick control Remote manual hydraulic control Radio remote control IQAN (Can Bus) control system

Control cable length Long distance fibre optic and co-axial upgrade Ergonomic chair c/w joystick control Secondary remote control

Remote power pack starter / control panel
Operator control cabins with heating, airconditioning, cab pressurization and explosion
proofing for windows

All hose boom (no hydraulic tubes)
Optional hose connections ORFS and SAE split flange Load drop counter balance valves on all boom functions Breaker anti- lunge interlock

Boom Options

Automatic greasing systems
All hose boom (no hydraulic tubes)
Manual / central greasing system
Expander pinsTM Expander pins '"
Pedestal to steel structure mounting kit
Pedestal to concrete foundation mounting kit
Cold weather conditioning package
Cold weather grade steel plate construction

Bucket and grapple attachment Start-up and commissioning Installation and supervision

BREAKER OPTIONS

BTI's full line of BX and BXR series breakers come standard with extra heavy-duty box housings, internal shock damping systems and rock claws configured for continuous duty mining environments.

Optional Equipment Extension brackets Mechanical or hydraulic quick couplers Side plate housing construction Severe duty, anti-abrasion wear kits Side mounted breakers Automatic greasing systems

Choice of tools: blunt, chisel or moil Extended tool lengths Concave removal tools Energy regeneration systems (BXR series) Anti blank fire interlock Two speed control











