



BREAKERS & ATTACHMENTS



MTB

505 IQ

HYDRAULIC BREAKERS

ABOUT US

İnan Makina A.Ş., which is one of the renowned breaker and attachment manufacturers of the world, was established in İstanbul in 1972. Its founder **Mehmet TUSÇUOĞLU**, began his operations with lathing leveling services. In the 1980s, the production of hydraulic breaker spare parts was started and in 2002 "**First Local Breaker**" was produced with the brand **MTB**.

İnan Makina is continuing its operations with nearly 400 personals on an 82.000 m² ground with a 67.000 m² closed area in Tekirdağ Çerkezköy Organized Industrial Site. **İnan Makina** has its breakers and attachments working in 6 continents and over 65 countries. Other than its factory, **İnan Makina** provides quality service to its customers with its dealerships in Türkiye and abroad and in İstanbul Europe and Asia, Ankara, Antalya, Burdur, Germany and Bulgaria branches.

Its **R&D** center, supported by the **Ministry of Industry and Technology** is developing attachments with patented designs such as; hydraulic breakers, demolition crushers, augers, compactors, grapples, and drifters to meet harsh operation demands.

İnan Makina has over 70 breaker models with the **MTB** brand ranging from 90 kg to 7200 kg. Its 5-tonne and 7-tonne models are among the largest breakers in the World. Also, there is a wide product range of **MTB** attachments suitable for many kinds of operational needs. İnan Makina has the honour of being the pride of its country by being a **FULLY INTEGRATED** facility with its latest technology CNC machines, robotic welding systems, metallography laboratory, heat treatment facilities and quality control on all stages of production in its factory.

ÇERKEZKÖY FACTORY





MTB

155 ST

MTB

155 ST

ST SERIES (STANDARD) SMALL TYPE GAS BREAKER

Our breakers provide superior efficiency and reliability with our different types of housings which were designed for suitable operations in various work environments. They are available for many carrier machines such as mini excavators and backhoe loaders and they are a fast and economical solution for your operating needs. They have a light design but are strong and reliable.

HIGH PRESSURE

Back Head Gas Breaker

On our "Gas Type" breakers, the hydraulic pressure and the nitrogen gas on top of the piston push the piston together to create the impact energy. Because there isn't an accumulator on top of the breaker and there is nitrogen gas on top of the piston, these kinds of breakers are called "Gas Type Breakers".

STRONGER

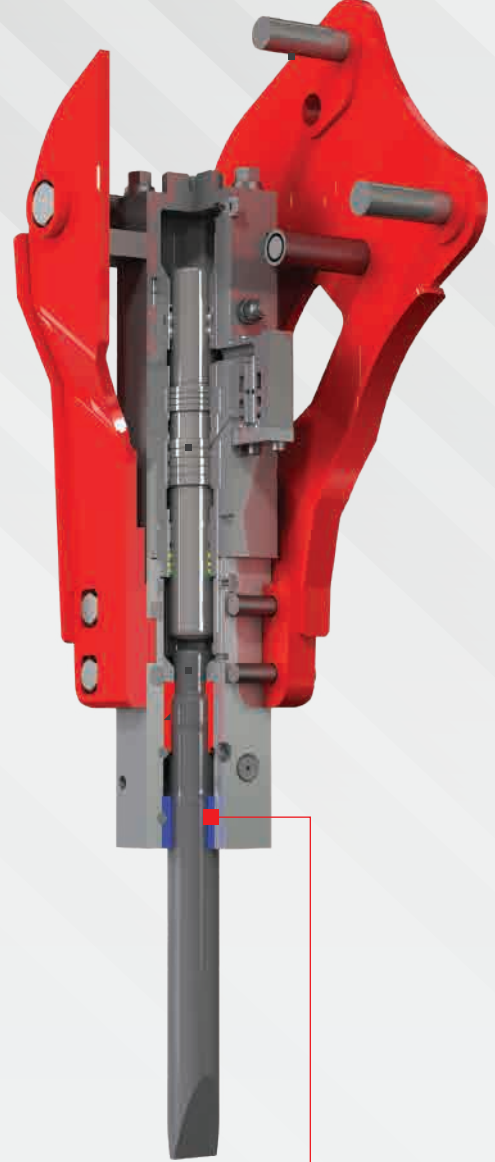
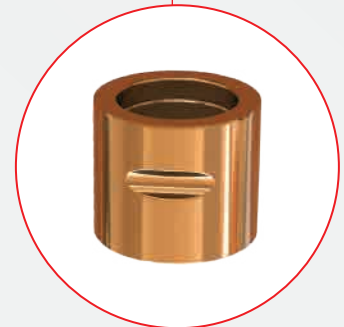
Piston Design

Stronger strike with its increased impact power and enhanced piston design!

PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.

**A**

ST SERIES (STANDARD) SMALL TYPE GAS BREAKER



TECHNICAL INFORMATION			9 ST	11 ST	15 ST	21 ST	30 ST	40 ST
Operating weight (a)	Open side connection Backhoe Loader	kg	-	-	145	215	330	380
		lb	-	-	320	474	727	837
	Open top	kg	90	120	140	210	330	400
		lb	198	265	308	463	727	882
	Open top connection	kg	90	120	140	210	330	400
		lb	198	265	308	463	727	882
Standard Box	kg	95	115	155	225	350	450	
	lb	210	250	340	495	770	990	
Oil flow	l/min	15~30	20~35	20~35	30~60	30~65	45~100	
	gal/min	4~7.9	5.3~9.2	5.3~9.2	7.9~15.9	7.9~17.2	11.9~26.4	
Impact rate (b)	bpm	780~1440	800~1400	600~1150	600~1140	390~1000	450~1000	
Operating pressure (c)	bar	120~125	120~125	120~125	120~125	120~125	120~125	
	psi	1740~1813	1740~1813	1740~1813	1740~1813	1740~1813	1740~1813	
Input power (d)	kW	3.0~6.3	4.0~7.3	4.0~7.3	6.0~12.5	6.0~13.5	9.0~20.8	
	hp	4.0~8.4	5.4~9.8	5.4~9.8	8.0~16.8	8.0~18.1	12~27.9	
Relief pressure	bar	170	170	170	170	170	170	
	psi	2465	2465	2465	2465	2465	2465	
Back pressure max.	bar	12	12	12	12	12	12	
	psi	174	174	174	174	174	174	
Tool diameter	mm Ø	38	45	50	68	70	80	
	in Ø	1.49	1.77	1.96	2.67	2.75	3.14	
Noise level (e)	LWA (dB)	122	122	122	124	125	127	
Skid-steer loader (f)	t	0.7~1.2	1.2~1.8	1.4~2.4	2.0~3.5	2.5~4.2	4.8~7.5	
	lb	1545~2645	2645~3970	3085~5290	4400~7700	5510~9260	10600~16500	
Carrier weight (f)	t	1~1.5	1.4~2.2	1.8~3.2	2.5~5.5	4.0~7.0	6.0~9.0	
	lb	2200~3300	3085~4850	3970~7050	5510~12125	8820~15430	13220~19840	

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

MTB ST SERIES (STANDARD) HYDRAULIC BREAKER

MTB ST (Standard) series hydraulic breakers were designed with breaking performance and ease of use as a priority. They are produced with a wide range of weights and models to be suitable for all carrier machines.

MORE RELIABLE

Membrane and Accumulator

With its highly resilient membrane and tough accumulator, our breakers impact with the same energy on every single stroke, thus providing maximum efficiency even when working on the hardest materials.

Piston Design

Stronger strike with its increased impact power and enhanced piston design!

LONGER LIFETIME

Hydraulic Cushioning

If the breaker blank-fires during operation, thanks to our hydraulic cushioning feature the piston won't hit the cylinder, therefore prolonging the lifetime of the components.

FOR CONFINED SPACES

Different Type Housing

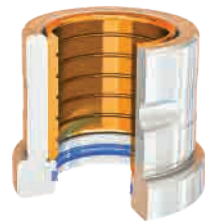
Our breakers provide superior efficiency and reliability with our different type housings which were designed for suitable operations in various work environments.

They are available for many carrier machines such as mini excavators and backhoe loaders and they are a fast and economic solution for your operating needs. They have a light design but are strong and reliable.

PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool. Also, the added dust seal protects the inner components by keeping debris out.

**A**

ST SERIES (STANDARD) SMALL TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION			25 ST	35 ST	36 ST	38 ST	45 ST
Operating weight (a)	Open side connection Backhoe Loader	kg	320	435	380	390	410
		lb	705	959	837	860	904
	Open top	kg	-	-	400	-	-
		lb	-	-	882	-	-
	Open top connection	kg	345	-	400	-	430
		lb	760	-	882	-	948
Standard Box	kg	330	-	450	450	485	
	lb	725	-	990	990	1070	
Oil flow	l/min	30~60	50~100	50~100	50~100	50~100	
	gal/min	7.9~15.9	13.2~26.4	13.2~26.4	13.2~26.4	13.2~26.4	
Impact rate (b)	bpm	440~890	490~990	490~990	490~990	440~880	
Operating pressure (c)	bar	120~125	120~125	120~125	120~125	120~125	
	psi	1740~1813	1740~1813	1740~1813	1740~1813	1740~1813	
Input power (d)	kW	6.0~12.5	10~20.8	10~20.8	10~20.8	10~20.8	
	hp	8.0~16.8	13.4~27.9	13.4~27.9	13.4~27.9	13.4~27.9	
Relief pressure	bar	180	180	180	180	180	
	psi	2610	2610	2610	2610	2610	
Back pressure max.	bar	10	10	10	10	10	
	psi	145	145	145	145	145	
Tool diameter	mm Ø	70	75	75	80	85	
	in Ø	2.75	2.95	2.95	3.14	3.34	
Noise level (e)	LWA (dB)	125	127	127	127	127	
Skid-steer loader (f)	t	2,5~4.2	3,8~5,5	3,8~5,5	3,8~5,5	4,8~7,5	
	lb	5510~9260	8380~12125	8380~12125	8380~12125	10600~16500	
Carrier weight (f)	t	4.0~7.0	6.0~9.0	6.0~9.0	6.0~9.0	7.0~10	
	lb	8820~15430	13220~19840	13220~19840	13220~19840	15430~22050	

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

MTB ST SERIES (STANDARD) MEDIUM AND LARGE TYPE HYDRAULIC BREAKER

STRONGER

Membrane and Accumulator

With its highly resilient membrane and tough accumulator, our breakers impact with the same energy on every single stroke, thus providing maximum efficiency even when working on the hardest materials.

Piston Design

Stronger strike with its increased impact power and enhanced piston design!

MORE DURABLE

Hydraulic Cushioning

The hydraulic cushioning function on hydraulic breakers prolongs the lifetime of the components by preventing the piston from impacting the cylinder.

MORE RELIABLE

Dual Retainer

Dual retainer design makes sure that the tool impacts with more balance.

Minimum Vibration

Minimum vibration and maximum performance with our excellent impact absorbant vibration buffers and polyurethane-covered tie-rods.

PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

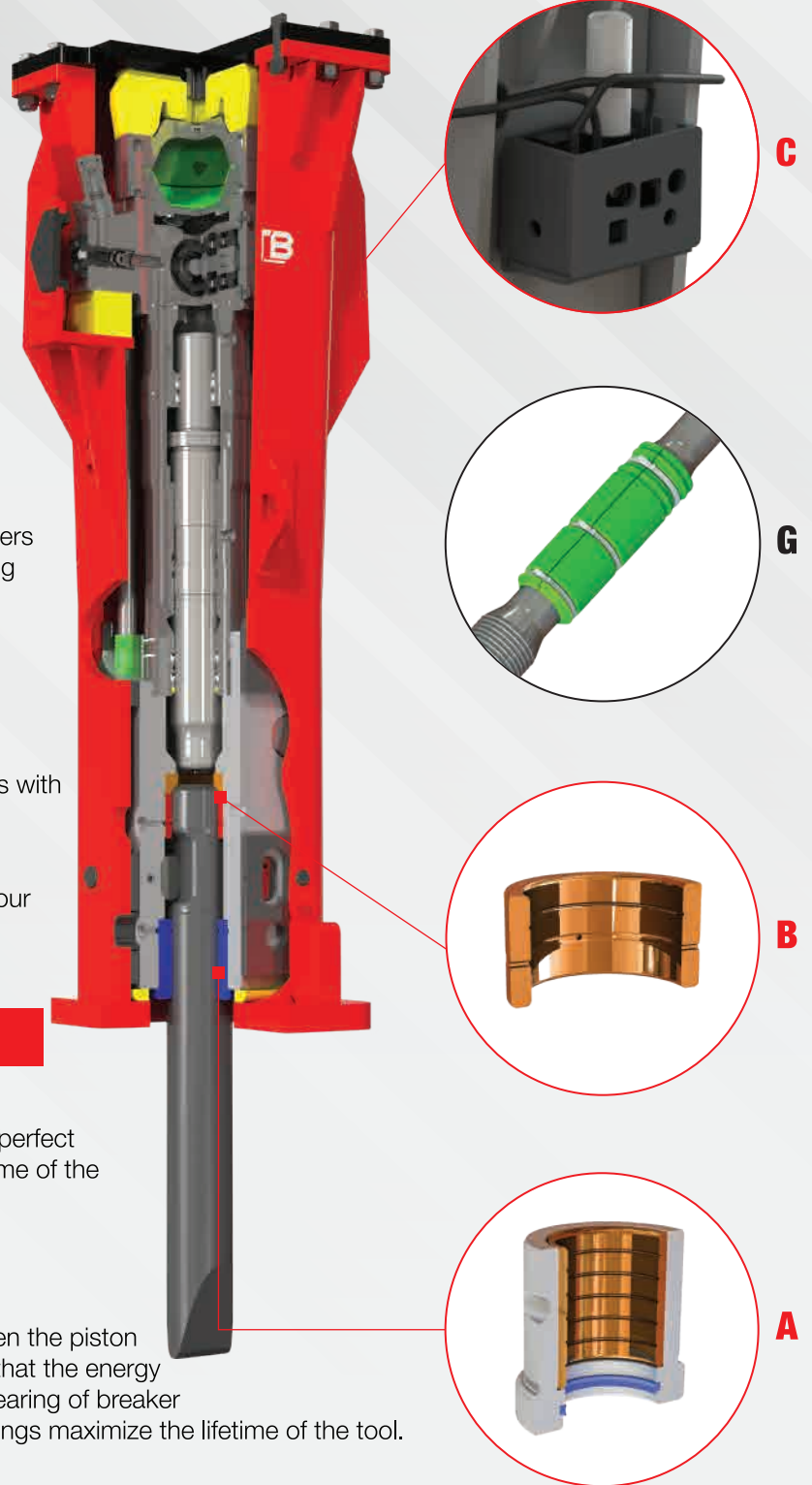
By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool. Also, the added dust seal protects the inner components by keeping debris out.

BRONZE UPPER BUSHING (OPTIONAL) (B)

Upper bushings ensure the correct alignment between the piston and the tool during operation therefore making sure that the energy transfer is done most efficiently. By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.

AUTOMATIC GREASING (OPTIONAL) (C)

Automatic greasing systems lower friction between parts and wear by continuously supplying grease to the breaker components. Greasing also helps to avoid excessive heating of the parts thus preventing damages that could be caused by high temperatures. All of these benefits improve the lifetime of the breaker and operation efficiency by helping to avoid long and expensive repair services.



ST SERIES (STANDARD) MEDIUM TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		65 ST	95 ST	125 ST	155 ST	175 ST	215 ST
Operating weight (a)	kg	750	950	1250	1580	1900	2250
	lb	1650	2090	2750	3480	4190	4960
Oil flow	l/min	60~110	70~120	80~130	100~150	120~180	160~210
	gal/min	15.9~29	18.5~31.7	21.1~34.4	26.4~39.6	31.7~47.5	42.2~55.5
Impact rate (b)	bpm	360~670	360~630	460~760	360~550	360~550	370~490
Operating pressure (c)	bar	125~130	125~130	135~140	135~140	135~140	140~145
	psi	1813~1885	1813~1885	1958~2030	1958~2030	1958~2030	2030~2103
Input power (d)	kW	12.5~23.8	14.6~26	18~30.3	22.5~35	27~42	37.3~50.7
	hp	16.8~31.9	19.5~34.9	24.1~40.6	30.2~46.9	36.2~56.3	50~68
Relief pressure	bar	190	190	200	200	200	210
	psi	2755	2755	2900	2900	2900	3045
Back pressure max.	bar	8	8	8	8	8	8
	psi	116	116	116	116	116	116
Tool diameter	mm Ø	95	100	115	125	135	145
	in Ø	3.74	3.93	4.52	4.92	5.31	5.7
Noise level (e)	LWA (dB)	128	128	127	130	129	135
Carrier weight (f)	t	8.0~14	10~16	16~22	18~25	22~29	26~32
	lb	17635~30860	22050~35270	35270~48500	39680~55115	48500~63935	57320~70550

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

ST SERIES (STANDARD) LARGE TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		255 ST	285 ST	365 ST	505 ST	705 ST
Operating weight (a)	kg	2550	3000	3950	4650	7150
	lb	5620	6610	8700	10250	15760
Oil flow	l/min	190~240	210~260	220~270	230~300	250~350
	gal/min	50.2~63.4	55.5~68.7	58.1~71.3	60.8~79.3	66~92.5
Impact rate (b)	bpm	390~540	380~480	370~450	330~440	250~350
Operating pressure (c)	bar	140~145	140~145	145~150	150~155	155~160
	psi	2030~2103	2030~2103	2103~2175	2175~2248	2248~2320
Input power (d)	kW	44.3~58	49~62.8	53.2~67.5	57.5~77.5	64.6~93.3
	hp	59.4~77.8	65.7~84.2	71.2~90.5	77.1~103.9	86.5~125.1
Relief pressure	bar	210	210	210	210	220
	psi	3045	3045	3045	3045	3190
Back pressure max.	bar	8	8	8	8	8
	psi	116	116	116	116	116
Tool diameter	mm Ø	150	160	175	190	210
	in Ø	5.9	6.29	6.88	7.48	8.26
Noise level (e)	LWA (dB)	132	130	129	130	128
Carrier weight (f)	t	32~39	35~45	45~55	50~65	65~100
	lb	70550~85980	77160~99210	99200~121250	110230~143300	143300~220460

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.



MTB IQ SERIES (SMART) HYDRAULIC BREAKER

With our specially designed piston and cylinder, the breaker is prevented from blank-firing. This way, the tie-rods, bushings, retainers and the tools' lifetime is prolonged. Thanks to this, the maintenance costs are lowered and the breaker can work for longer durations in tough excavation sites like stone quarries and marble quarries. The anti-blank-firing feature guarantees that the operator will work safely and efficiently.

MORE DURABLE

Wearing Plates

Our breakers have longer lifetime thanks to their highly resilient wearing plates which were specially designed for operating conditions.

Dual Retainer

Dual retainer design makes sure that the tool impacts with more balance.

MORE RELIABLE

C-Type Housing

Its housing has an entirely unique structure and is supported with wearing resistant Hardox® materials. Maximum durability is provided even in the toughest conditions thanks to the C-Type housing.

Minimum Vibration

Minimum vibration and maximum performance with our excellent impact absorbant vibration buffers and polyurethane-covered tie-rods.

PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

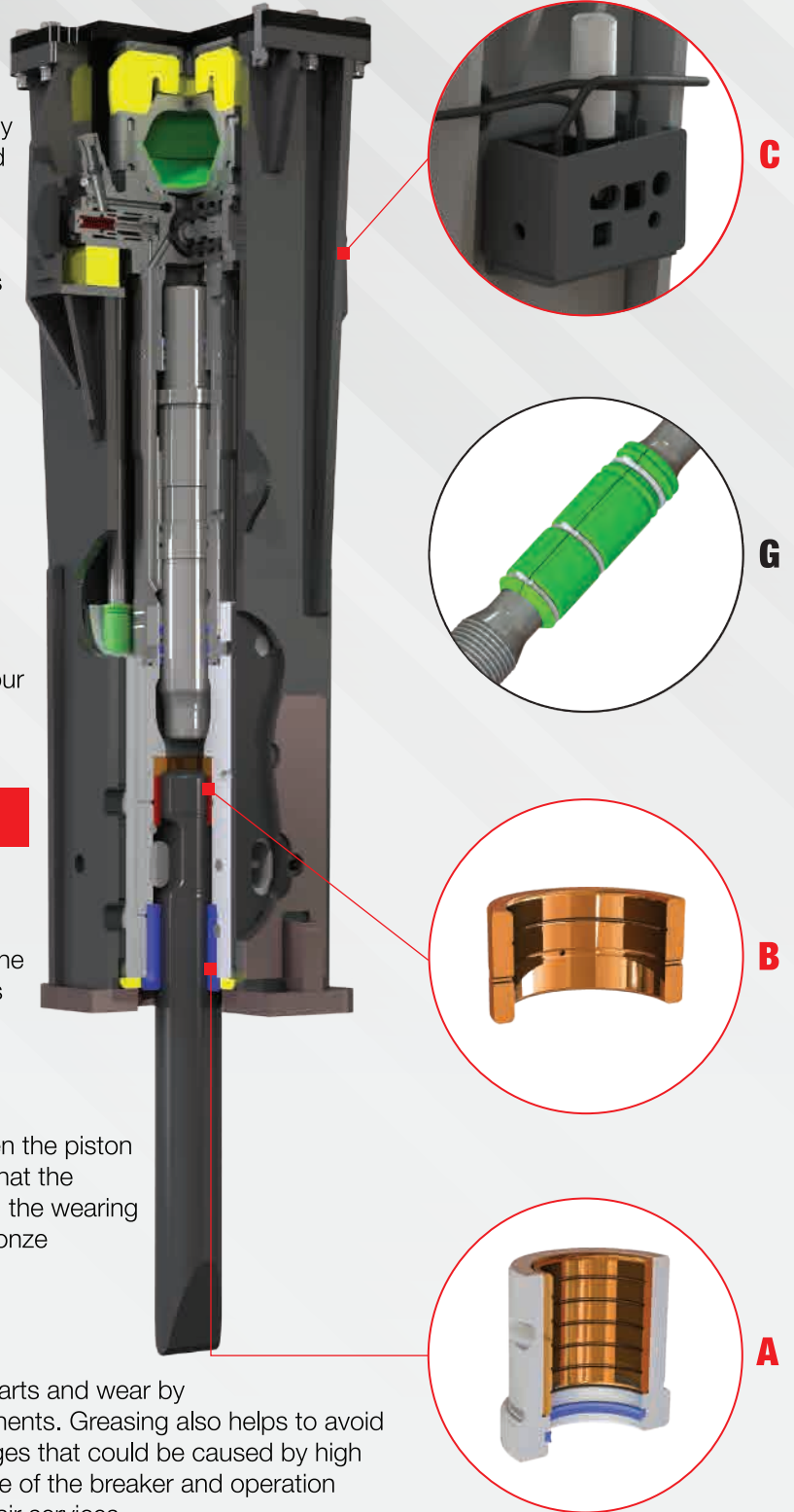
By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool. Also, the added dust seal protects the inner components by keeping debris out.

BRONZE UPPER BUSHING (OPTIONAL) (B)

Upper bushings ensure the correct alignment between the piston and the tool during operation therefore making sure that the energy transfer is done most efficiently. By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.

AUTOMATIC GREASING (OPTIONAL) (C)

Automatic greasing systems lower friction between parts and wear by continuously supplying grease to the breaker components. Greasing also helps to avoid excessive heating of the parts thus preventing damages that could be caused by high temperatures. All of these benefits improve the lifetime of the breaker and operation efficiency by helping to avoid long and expensive repair services.



IQ SERIES (SMART) SMALL TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION			25 IQ	36 IQ	38 IQ	45 IQ
Operating weight (a)	Standard box	kg	330	450	450	485
		lb	725	990	990	1070
Oil flow		l/min	30~60	50~100	50~100	50~100
		gal/min	7.9~15.9	13.2~26.4	13.2~26.4	13.2~26.4
Impact rate (b)		bpm	440~890	490~990	490~990	440~880
Operating pressure (c)		bar	120~125	120~125	120~125	120~125
		psi	1740~1813	1740~1813	1740~1813	1740~1813
Input power (d)		kW	6.0~12.5	10~20.8	10~20.8	10~20.8
		hp	8.0~16.8	13.4~27.9	13.4~27.9	13.4~27.9
Relief pressure		bar	180	180	180	180
		psi	2610	2610	2610	2610
Back pressure max.		bar	10	10	10	10
		psi	145	145	145	145
Tool diameter		mm Ø	70	75	80	85
		in Ø	2.75	2.95	3.14	3.34
Noise level (e)		LWA (dB)	125	127	127	127
Skid-steer loader (f)		t	2,5~4.2	3,8~5,5	3,8~5,5	4,8~7,5
		lb	5510~9260	8380~12125	8380~12125	10600~16500
Carrier weight (f)		t	4.0~7.0	6.0~9.0	6.0~9.0	7.0~10
		lb	8820~15430	13220~19840	13220~19840	15430~22050

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

IQ SERIES (SMART) MEDIUM TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		65 IQ	95 IQ	125 IQ	155 IQ	175 IQ	215 IQ
Operating weight (a)	kg	750	950	1300	1650	1980	2350
	lb	1650	2090	2865	3640	4365	5180
Oil flow	l/min	60~110	70~120	80~130	100~150	120~180	160~210
	gal/min	15.9~29	18.5~31.7	21.1~34.4	26.4~39.6	31.7~47.5	42.2~55.5
Impact rate (b)	bpm	360~670	360~630	460~760	360~550	360~550	370~490
Operating pressure (c)	bar	125~130	125~130	135~140	135~140	135~140	140~145
	psi	1813~1885	1813~1885	1958~2030	1958~2030	1958~2030	2030~2103
Input power (d)	kW	12.5~23.8	14.6~26	18~30.3	22.5~35	27~42	37.3~50.7
	hp	16.8~31.9	19.6~34.9	24.1~40.6	30.2~46.9	36.2~56.3	50~68
Relief pressure	bar	190	190	200	200	200	210
	psi	2755	2755	2900	2900	2900	3045
Back pressure max.	bar	8	8	8	8	8	8
	psi	116	116	116	116	116	116
Tool diameter	mm Ø	95	100	115	125	135	145
	in Ø	3.74	3.93	4.52	4.92	5.31	5.7
Noise level (e)	LWA (dB)	128	128	127	130	129	135
Carrier weight (f)	t	8.0~14	10~16	16~22	18~25	22~29	26~32
	lb	17635~30860	22050~35270	35270~48500	39680~55115	48500~63935	57320~70550

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

IQ SERIES (SMART) LARGE TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		255 IQ	285 IQ	365 IQ	505 IQ	705 IQ
Operating weight (a)	kg	2650	3150	4050	4750	7200
	lb	5840	6945	8930	10450	15870
Oil flow	l/min	190~240	210~260	220~270	230~300	250~350
	gal/min	50.2~63.4	55.5~68.7	58.1~71.3	60.8~79.3	66~92.5
Impact Rate (b)	bpm	390~540	380~480	370~450	330~440	250~350
Operating pressure (c)	bar	140~145	140~145	145~150	150~155	155~160
	psi	2030~2103	2030~2103	2103~2175	2175~2248	2248~2320
Input power (d)	kW	44.3~58	49~62.8	53.2~67.5	57.5~77.5	64.5~93.3
	hp	59.4~77.8	65.7~77.8	71.2~90.5	77.1~103.9	86.5~125.1
Relief pressure	bar	210	210	210	210	220
	psi	3045	3045	3045	3045	3190
Back pressure max.	bar	8	8	8	8	8
	psi	116	116	116	116	116
Tool Diameter	mm Ø	150	160	175	190	210
	in Ø	5.9	6.29	6.88	7.48	8.26
Noise level (e)	LWA (dB)	132	130	129	130	128
Carrier weight (f)	t	32~39	35~45	45~55	50~65	65~100
	lb	70550~85980	77160~99210	99200~121250	110230~143300	143300~220460

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.



MTB TN SERIES (TUNNEL) HYDRAULIC BREAKER

MTB TN (Tunnel) series hydraulic breakers can impact continuously in tunnel operations and operate in an effective way both vertically and horizontally with their perfect piston design. The most important reason for their demand in tunnel operations is their efficient and sturdy design and their ability to operate horizontally.

HIGH PERFORMANCE

Membrane and Accumulator

With its highly resilient membrane and tough accumulator, our breakers impact with the same energy on every single stroke, thus providing maximum efficiency even when working on the hardest materials.

Tunnel Bracket (F)

Tunnel series hydraulic breaker brackets were designed specifically for tunnel conditions to ensure effective and secure operation in a horizontal position.

MORE DURABLE

Hydraulic Cushioning

The hydraulic cushioning function on hydraulic breakers prolongs the lifetime of the components by preventing the piston from impacting the cylinder.

Wearing Plates

Our breakers have longer lifetime thanks to their highly resilient wearing plates which were specially designed for operating conditions.

Thrust Ring (K)

Thrust rings are designed specifically for harsh tunnel operations and are reinforced with high-strength steel. These properties ensure that the thrust ring is highly resistant to impacts and wearing.

MORE RELIABLE

Dual Retainer

Dual retainer design makes sure that the tool impacts with more balance.

Minimum Vibration

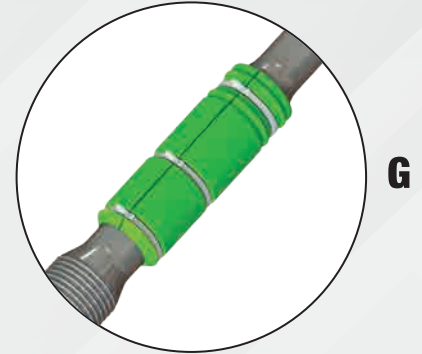
Minimum vibration and maximum performance with our excellent impact absorbant vibration buffers and polyurethane-covered tie-rods.

C-Type Housing

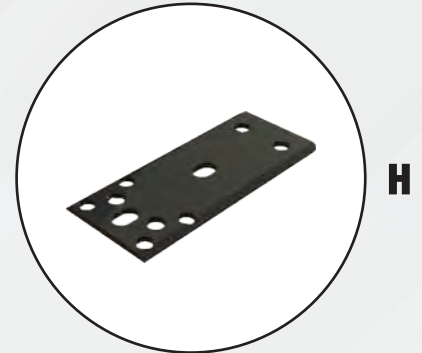
Its housing has an entirely unique structure and is supported with wearing resistant Hardox[®] materials. Maximum durability is provided even in the toughest conditions thanks to the C-Type housing.



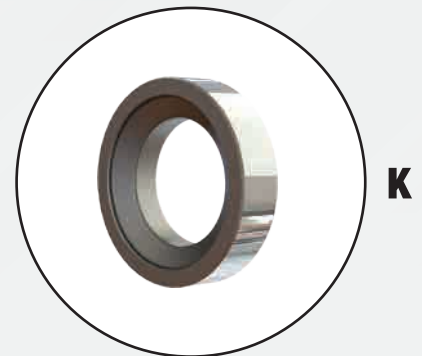
F



G



H



K

PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool. Also, the added dust seal protects the inner components by keeping debris out.

BRONZE UPPER BUSHING (OPTIONAL) (B)

Upper bushings ensure the correct alignment between the piston and the tool during operation therefore making sure that the energy transfer is done most efficiently. By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.

AUTOMATIC GREASING (OPTIONAL) (C)

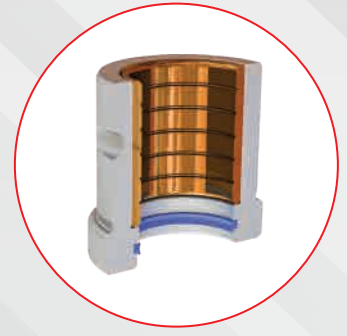
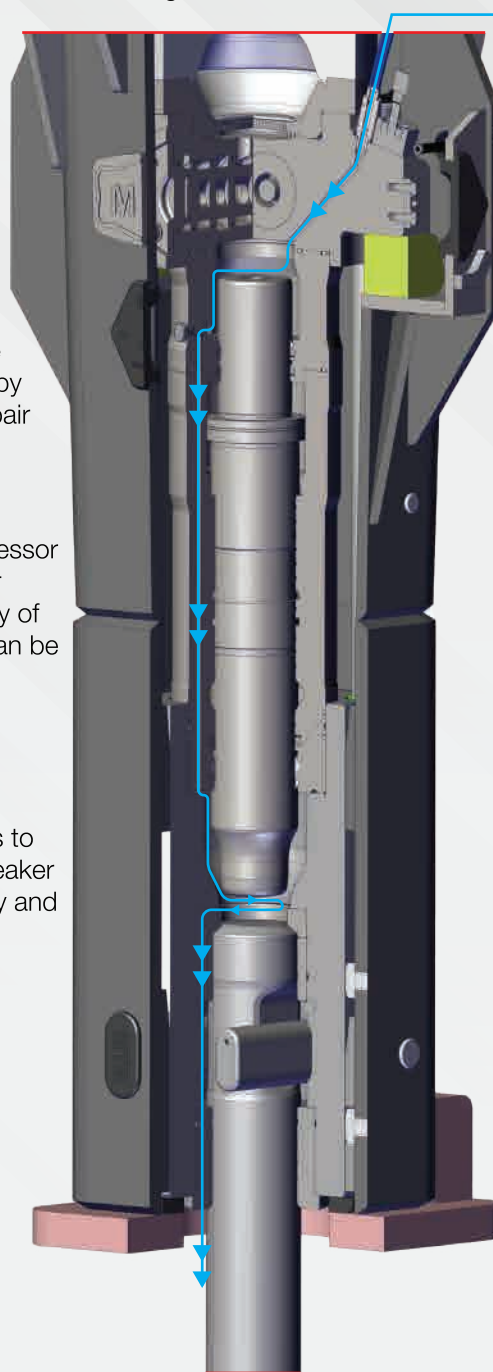
Automatic greasing systems lower friction between parts and wear by continuously supplying grease to the breaker components. Greasing also helps to avoid excessive heating of the parts thus preventing damages that could be caused by high temperatures. All of these benefits improve the lifetime of the breaker and operation efficiency by helping to avoid long and expensive repair services.

VENTILATION SYSTEM (OPTIONAL) (D)

Pressurized air coming from the compressor ventilates the area between the breaker piston and the tool to minimize the entry of abrasive particles. The damages that can be caused by debris in the inner body are prevented in this way.

WATER SPRAY SYSTEM (OPTIONAL) (E)

Water spray system which is the most efficient dust suppression method helps to protect the inner components of the breaker and is very beneficial to improve visibility and the working environment in tunnel and demolition operations.



TN SERIES (TUNNEL) HYDRAULIC BREAKER



TECHNICAL INFORMATION		65 TN	95 TN	125 TN	155 TN	175 TN
Operating weight (a)	kg	750	950	1300	1650	1980
	lb	1650	2090	2865	3640	4365
Oil flow	l/min	60~110	70~120	80~130	100~150	120~180
	gal/min	15.9~29	18.5~31.7	21.1~34.4	26.4~39.6	31.7~47.5
Impact rate (b)	bpm	400~730	440~760	550~890	440~660	430~650
Operating pressure (c)	bar	125~130	125~130	135~140	135~140	135~140
	psi	1813~1885	1813~1885	1958~2030	1958~2030	1958~2030
Input power (d)	kW	12.5~23.8	14.6~26	18~30.3	22.5~35	27~42
	hp	16.8~31.9	19.6~34.9	24.1~40.6	30.2~46.9	36.2~56.3
Relief pressure	bar	190	190	200	200	200
	psi	2755	2755	2900	2900	2900
Back pressure max.	bar	8	8	8	8	8
	psi	116	116	116	116	116
Tool diameter	mm Ø	95	100	115	125	135
	in Ø	3,74	3,93	4,52	4,92	5,31
Noise level (e)	LWA (dB)	128	128	127	130	129
Carrier weight (f)	t	8,0~14	10~16	16~22	18~25	22~29
	lb	17635~30860	22050~35270	35270~48500	39680~55115	48500~63935

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.



MTB MR SERIES (MARBLE) HYDRAULIC BREAKER

MTB MR (Marble) series hydraulic breakers are produced for the toughest excavation demands of rock, concrete, asphalt and marble. MR (Marble) series breakers' outer chassis have a completely special design and are produced with wear-resistant materials. Their side surfaces are made as a single piece and without welding. This way the effects of the forces on the side surfaces of the breaker are lowered.

STRONGER

Piston Design

Our breakers are much more efficient with their optimized piston design and increased impact energy. Our heavy breakers are extremely efficient in marble quarries, surface and underground mines and demolishing of large reinforced concrete structures.

MORE DURABLE

Hydraulic Cushioning

The hydraulic cushioning function on hydraulic breakers prolongs the lifetime of the components by preventing the piston from impacting the cylinder.

MORE RELIABLE

Dual Retainer

Dual retainer design makes sure that the tool impacts with more balance.

Minimum Vibration

Minimum vibration and maximum performance with our excellent impact absorbant vibration buffers and polyurethane-covered tie-rods.

C-Type Housing

Its housing has an entirely unique structure and is supported with wearing resistant Hardox® materials. Maximum durability is provided even in the toughest conditions thanks to the C-Type housing.

PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

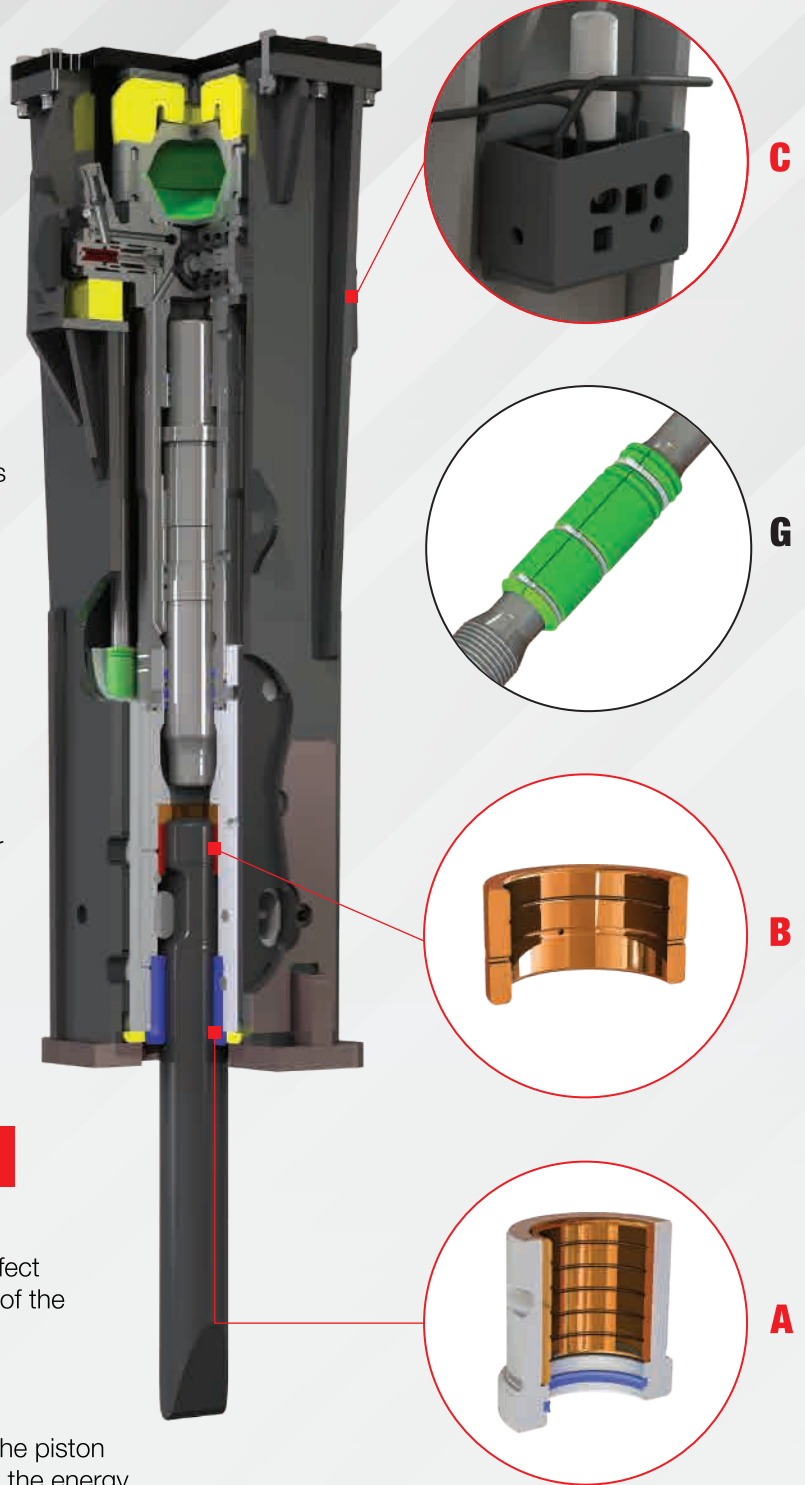
By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool. Also, the added dust seal protects the inner components by keeping debris out.

BRONZE UPPER BUSHING (OPTIONAL) (B)

Upper bushings ensure the correct alignment between the piston and the tool during operation therefore making sure that the energy transfer is done most efficiently. By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.

AUTOMATIC GREASING (OPTIONAL) (C)

Automatic greasing systems lower friction between parts and wear by continuously supplying grease to the breaker components. Greasing also helps to avoid excessive heating of the parts thus preventing damages that could be caused by high temperatures. All of these benefits improve the lifetime of the breaker and operation efficiency by helping to avoid long and expensive repair services.



MR SERIES (MARBLE) MEDIUM TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		125 MR	155 MR	175 MR	215 MR
Operating weight (a)	kg	1300	1650	1980	2350
	lb	2865	3640	4365	5180
Oil flow	l/min	80~130	100~150	120~180	160~210
	gal/min	21.1~34.4	26.4~39.6	31.7~47.5	42.2~55.5
Impact rate (b)	bpm	460~760	360~550	360~550	370~490
Operating pressure (c)	bar	135~140	135~140	135~140	140~145
	psi	1958~2030	1958~2030	1958~2030	2030~2103
Input power (d)	kW	18~30.3	22.5~35	27~42	37.3~50.7
	hp	24.1~40.6	30.2~46.9	36.2~56.3	50~68
Relief pressure	bar	200	200	200	210
	psi	2900	2900	2900	3045
Back pressure max.	bar	8	8	8	8
	psi	116	116	116	116
Tool diameter	mm Ø	115	125	135	145
	in Ø	4.52	4.92	5.31	5.7
Noise level (e)	LWA (dB)	127	130	129	135
Carrier weight (f)	t	16~22	18~25	22~29	26~32
	lb	35270~48500	39680~55115	48500~63935	57320~70550

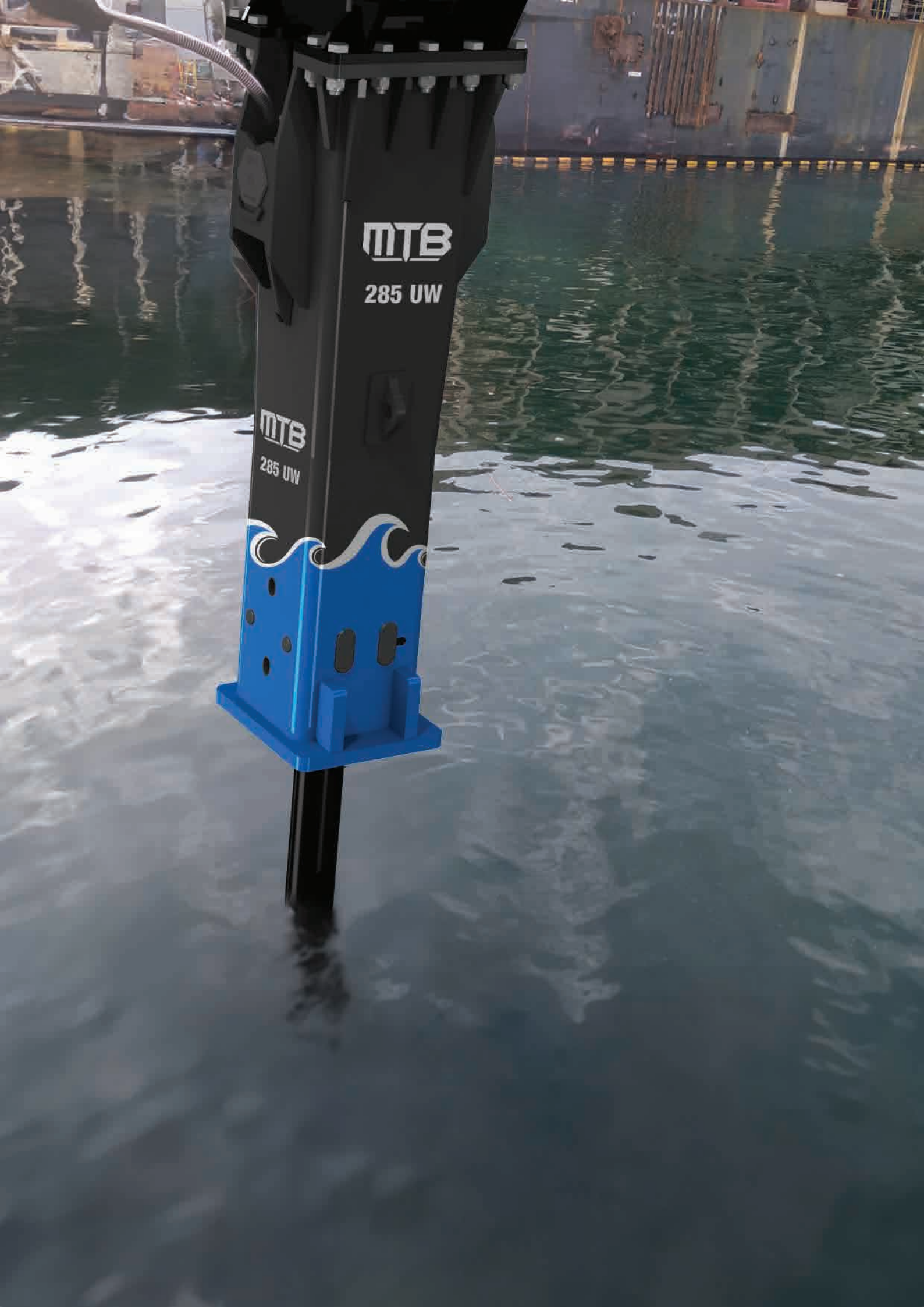
a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

MR SERIES (MARBLE) LARGE TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		255 MR	285 MR	365 MR	505 MR	705 MR
Operating weight (a)	kg	2650	3150	4050	4750	7200
	lb	5840	6945	8930	10450	15870
Oil flow	l/min	190~240	210~260	220~270	230~300	250~350
	gal/min	50.2~63.4	55.5~68.7	58.1~71.3	60.8~79.3	66~92.5
Impact rate (b)	bpm	390~540	380~480	370~450	330~440	250~350
Operating pressure (c)	bar	140~145	140~145	145~150	150~155	155~160
	psi	2030~2103	2030~2103	2103~2175	2175~2248	2248~2320
Input power (d)	kW	44.3~58	49~62.8	53.2~67.5	57.5~77.5	64.5~93.3
	hp	59.4~77.8	65.7~77.8	71.2~90.5	77.1~103.9	86.5~125.1
Relief pressure	bar	210	210	210	210	220
	psi	3045	3045	3045	3045	3190
Back pressure max.	bar	8	8	8	8	8
	psi	116	116	116	116	116
Tool diameter	mm Ø	150	160	175	190	210
	in Ø	5.9	6.29	6.88	7.48	8.26
Noise level (e)	LWA (dB)	132	130	129	130	128
Carrier weight (f)	t	32~39	35~45	45~55	50~65	65~100
	lb	70550~85980	77160~99210	99200~121250	110230~143300	143300~220460

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.



MTB

285 UW

MTB

285 UW

MTB UW SERIES (UNDERWATER) HYDRAULIC BREAKER

MTB UW (Underwater) series hydraulic breakers can be used effectively for underwater operations. The pressurized air coming from the compressor by a special air line inside the breaker is sent between the piston and the tool to eject water. Therefore it prevents any damage that can come to the breaker and the excavator (D).

STRONGER

Membrane and Accumulator

With its highly resilient membrane and tough accumulator, our breakers impact with the same energy on every single stroke, thus providing maximum efficiency even when working on the hardest materials.

Wearing Plates

Our breakers have longer lifetime thanks to their highly resilient wearing plates which were specially designed for operating conditions.

MORE DURABLE

Hydraulic Cushioning

The hydraulic cushioning function on hydraulic breakers prolongs the lifetime of the components by preventing the piston from impacting the cylinder.

MORE RELIABLE

Dual Retainer

Dual retainer design makes sure that the tool impacts with more balance.

Minimum Vibration

Minimum vibration and maximum performance with our excellent impact absorbant vibration buffers and polyurethane-covered tie-rods.

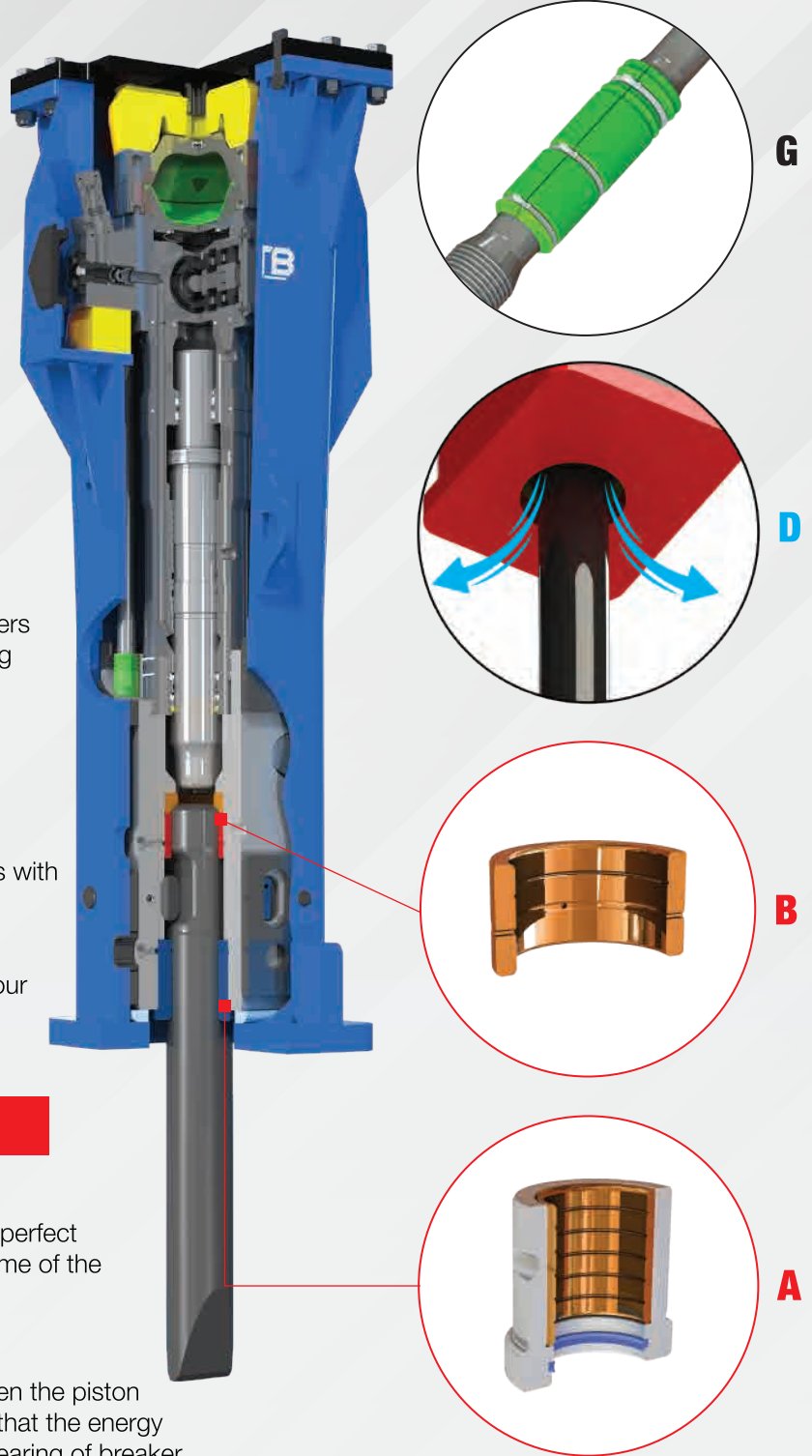
PERFORMANCE IMPROVING OPTIONS

BRONZE LOWER BUSHING (OPTIONAL) (A)

By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.

BRONZE UPPER BUSHING (OPTIONAL) (B)

Upper bushings ensure the correct alignment between the piston and the tool during operation therefore making sure that the energy transfer is done most efficiently. By minimizing the wearing of breaker tools and their perfect guiding function, bronze bushings maximize the lifetime of the tool.



UW SERIES (UNDERWATER) SMALL TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION

			25 UW	36 UW	38 UW	45 UW
Operating weight (a)	Standard box	kg	330	450	450	485
		lb	725	990	990	1070
Oil flow		l/min	30~60	50~100	50~100	50~100
		gal/min	7.9~15.9	13.2~26.4	13.2~26.4	13.2~26.4
Impact rate (b)		bpm	440~890	490~990	490~990	440~880
Operating pressure (c)		bar	120~125	120~125	120~125	120~125
		psi	1740~1813	1740~1813	1740~1813	1740~1813
Input power (d)		kW	6.0~12.5	10~20.8	10~20.8	10~20.8
		hp	8.0~16.8	13.4~27.9	13.4~27.9	13.4~27.9
Relief pressure		bar	180	180	180	180
		psi	2610	2610	2610	2610
Back pressure max.		bar	10	10	10	10
		psi	145	145	145	145
Tool diameter		mm Ø	70	75	80	85
		in Ø	2.75	2.95	3.14	3.34
Noise level (e)		LWA (dB)	125	127	127	127
Skid-steer loader (f)		t	2,5~4,2	3,8~5,5	3,8~5,5	4,8~7,5
		lb	5510~9260	8380~12125	8380~12125	10600~16500
Carrier weight (f)		t	4,0~7,0	6,0~9,0	6,0~9,0	7,0~10
		lb	8820~15430	13220~19840	13220~19840	15430~22050

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

UW SERIES (UNDERWATER) MEDIUM TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		65 UW	95 UW	125 UW	155 UW	175 UW	215 UW
Operating weight (a)	kg	750	950	1250	1580	1900	2250
	lb	1650	2090	2750	3480	4190	4960
Oil flow	l/min	60~110	70~120	80~130	100~150	120~180	160~210
	gal/min	15.9~29	18.5~31.7	21.1~34.4	26.4~39.6	31.7~47.5	42.2~55.5
Impact rate (b)	bpm	360~670	360~630	460~760	360~550	360~550	370~490
Operating pressure (c)	bar	125~130	125~130	135~140	135~140	135~140	140~145
	psi	1813~1885	1813~1885	1958~2030	1958~2030	1958~2030	2030~2103
Input power (d)	kW	12.5~23.8	14.6~26	18~30.3	22.5~35	27~42	37.3~50.7
	hp	16.8~31.9	19.5~34.9	24.1~40.6	30.2~46.9	36.2~56.3	50~68
Relief pressure	bar	190	190	200	200	200	210
	psi	2755	2755	2900	2900	2900	3045
Back pressure max.	bar	8	8	8	8	8	8
	psi	116	116	116	116	116	116
Tool diameter	mm Ø	95	100	115	125	135	145
	in Ø	3.74	3.93	4.52	4.92	5.31	5.7
Noise level (e)	LWA (dB)	128	128	127	130	129	135
Carrier weight (f)	t	8.0~14	10~16	16~22	18~25	22~29	26~32
	lb	17635~30860	22050~35270	35270~48500	39680~55115	48500~63935	57320~70550

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.

UW SERIES (UNDERWATER) LARGE TYPE HYDRAULIC BREAKER



TECHNICAL INFORMATION		255 UW	285 UW	365 UW	505 UW	705 UW
Operating weight (a)	kg	2550	3000	3950	4650	7150
	lb	5620	6610	8700	10250	15760
Oil flow	l/min	190~240	210~260	220~270	230~300	250~350
	gal/min	50.2~63.4	55.5~68.7	58.1~71.3	60.8~79.3	66~92.5
Impact rate (b)	bpm	390~540	380~480	370~450	330~440	250~350
Operating pressure (c)	bar	140~145	140~145	145~150	150~155	155~160
	psi	2030~2103	2030~2103	2103~2175	2175~2248	2248~2320
Input power (d)	kW	44.3~58	49~62.8	53.2~67.5	57.5~77.5	64.6~93.3
	hp	59.4~77.8	65.7~84.2	71.2~90.5	77.1~103.9	86.5~125.1
Relief pressure	bar	210	210	210	210	220
	psi	3045	3045	3045	3045	3190
Back pressure max.	bar	8	8	8	8	8
	psi	116	116	116	116	116
Tool diameter	mm Ø	150	160	175	190	210
	in Ø	5.9	6.29	6.88	7.48	8.26
Noise level (e)	LWA (dB)	132	130	129	130	128
Carrier weight (f)	t	32~39	35~45	45~55	50~65	65~100
	lb	70550~85980	77160~99210	99200~121250	110230~143300	143300~220460

a. It includes the approximate weight of the breaker, bracket, standard tool and hose weights. b. Actual impact frequency depends on the oil flow, oil viscosity, temperature and the material to be broken. c. Actual pressure depends on the oil flow, oil viscosity, temperature, material to be broken and the return pressure. d. Input power directly effects fuel consumption. Low input power (kW) requirement means low fuel consumption. e. Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)=Measured Value +3 dB). f. If the carrier machine is out of the optimum range, ask the carrier machine manufacturer for allowed attachment weight.



MTB
HYDRA-TOOL

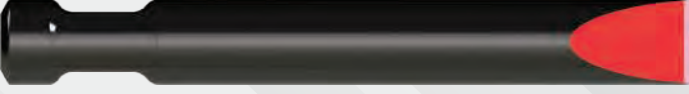
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135

MTB

215 M

STANDARD TOOL



Chisel Tool

Used on flat surfaces, breaking of brittle surfaces, primary breaking operations, excavations, and drilling.



Moil Tool

Used on the primary breaking operations of metamorphic rocks in which the tool can penetrate through the weak and sedimentary rock.



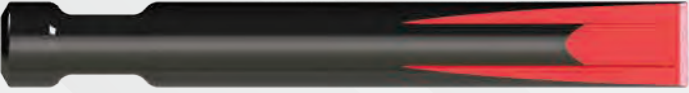
Blunt Tool

They're used for secondary working operations to crumble large boulders into smaller pieces. The risk of blank firing is low on these types of tools.



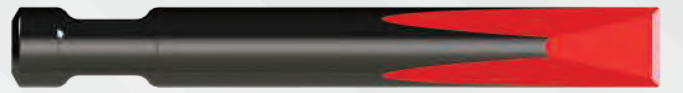
Pyramid Tool

They are used on highways, rock quarries, concrete surfaces, and reinforced concrete such as foundations.



G Type Chisel Tool

Used for the same operations as the chisel tool. The grooves on the tool help to expel dust away from the tip of the tool.



GL Type Chisel Tool

Used for the same operations as the chisel tool. It provides a stronger impact by expelling dust away from the tip of the tool with the grooves on its surface.



X Type Moil Tool

Used for the same operations as the moil tool. The grooves on the tool help to expel dust away from the tip of the tool.



H Type Pyramid Tool

Used for the same operations as the pyramid tool. The grooves on the tool help to expel dust away from the tip of the tool.

SPECIAL TYPE TOOLS



Super Chisel Tool

Used on soft surfaces with high probability of blank firing where the tool can penetrate the material easily.



Super Blunt Tool

Used for the same operations as the blunt tool. Provides high wearing resistance on abrasive rocks with their enlarged blunt shape.



Asphalt Cutter Tool

They are used on the cutting of the asphalt surfaces for canalization operations.



Pile Driver Tool

They are used for driving pipes and poles into the surface.



WELDING ROBOTS



PRODUCTION AREA



SMART AS/RS WAREHOUSE



BREAKERS & ATTACHMENTS

Factory

Bahçelievler OSB Mahallesi 11. Cd No: 4A 59510 Kapaklı - Tekirdağ / TÜRKİYE

+90 (282) 768 25 00 / +90 (282) 758 25 42 / +90 (282) 758 35 84 +90 (282) 758 23 65

info@inanmakina.com

İstanbul Europe Branch

İkitelli OSB Mh. Eski Turgut Özal Cd. No:24 34490 Başakşehir - İstanbul / TÜRKİYE

+90 (212) 549 25 00 / +90 (212) 549 21 25 / +90 (212) 549 20 14 +90 (212) 549 22 75

info@inanmakina.com

İstanbul Anatolia Branch

Aydınlı Birlik OSB Mh. Doğu Cd. No:11 Tuzla - İstanbul / TÜRKİYE

+90 (216) 420 23 87-90-91 / +90 (216) 504 17 58 - 59 +90 (216) 420 23 88

dudullu@inanmakina.com

Ankara Branch

Abdulkadir Geylani Cd. No:10 Ostim - Ankara / TÜRKİYE

+90 (312) 395 47 07 +90 (312) 395 41 56

ankara@inanmakina.com

Antalya Branch

Yeşilbayır Mh. Akdeniz Bulvarı No: 101 Yeşilbayır Döşemealtı - Antalya / TÜRKİYE

+90 (242) 443 13 10 / +90 (242) 443 17 11 / +90 (242) 443 19 25 +90 (242) 443 19 05

antalya@inanmakina.com

Burdur Branch

Aydınlıkevler Mh. Küçük San. Sitesi 6. Sk. No:91 Burdur / TÜRKİYE

+90 (248) 252 85 48 +90 (248) 252 85 49

burdur@inanmakina.com

You can follow us on social media.



www.mtbbreakers.com



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