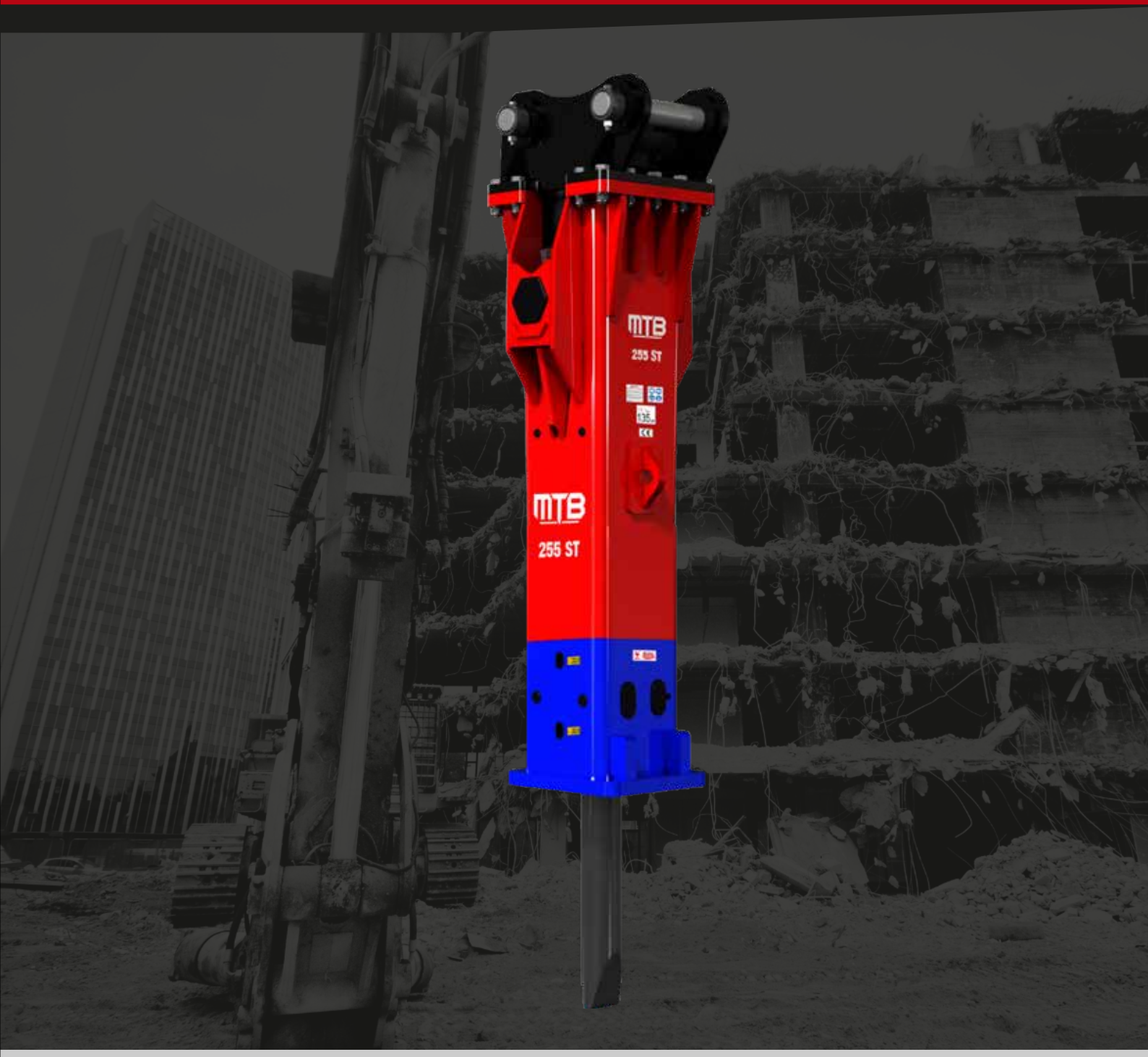
Rev 240924

MTB®

BREAKERS & ATTACHMENTS



inan makina®
SANAYİ VE TİCARET A.Ş.

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

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

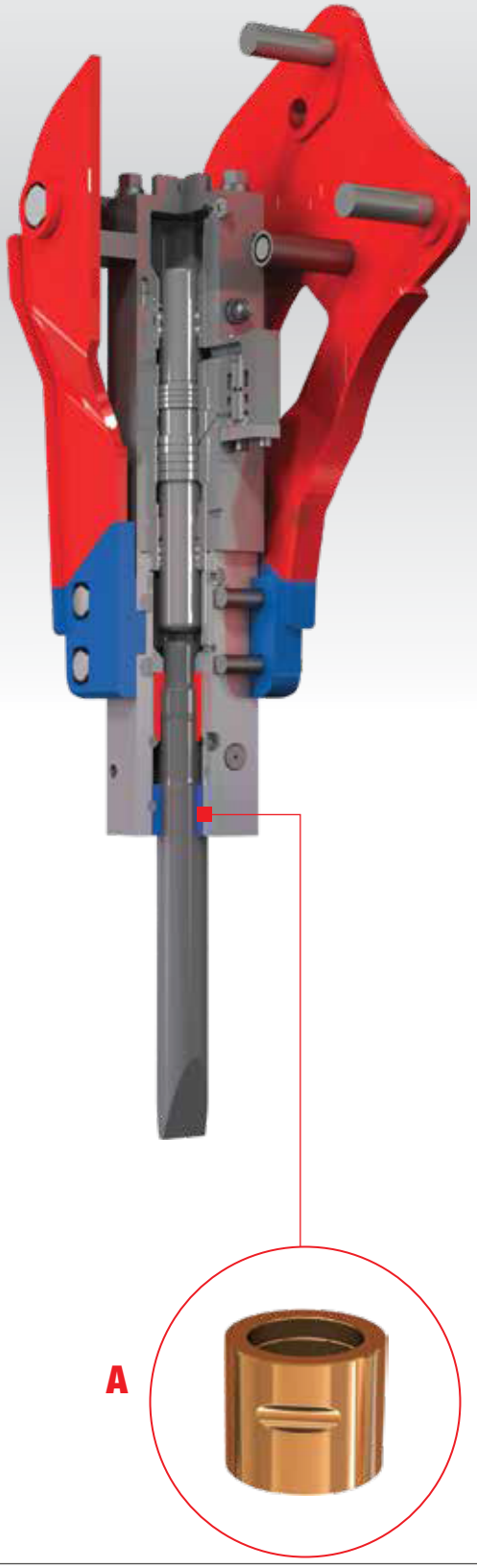
İnan Makina has over 70 breaker models with the MTB brand ranging from 90 kg to 7200 kg. Its 5-tonne and 7-tonne models are among the largest breakers in the World. İnan Makina has the honor of being the pride of its country by being a **FULLY INTEGRATED** facility with its near 150 latest technology CNC machines, robotic welding systems, metallography laboratory, and heat treatment facilities in its factory.

MTB®

BREAKERS & ATTACHMENTS

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.

ST SERIES (STANDARD) SMALL TYPE GAS BREAKER

Open Side Connection
Backhoe Loader

Open Top

Open Top Connection

Standard Box

TECHNICAL INFORMATION			9 ST	11 ST	15 ST	21 ST	30 ST	40 ST
Operating weight (a)	Open side connoction 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

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

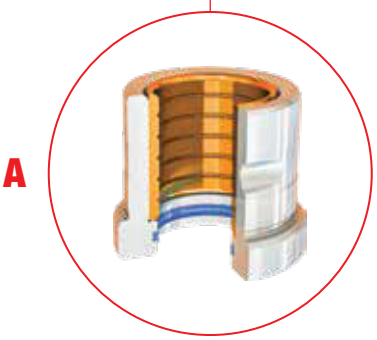
Hydraulic Cushioning
If the breaker blank-fires during operation, thanks to our hydraulic cushioning feature the piston won't hit the cylinder, therefore prolonging the lifetime of the components.

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.



ST SERIES (STANDARD) SMALL TYPE HYDRAULIC BREAKER

Open Side Connection
Backhoe Loader

Open Top

Open Top Connection

Standard Box

TECHNICAL INFORMATION			25 ST	35 ST	36 ST	38 ST	45 ST
Operating weight (a)	Open side connoction 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

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!

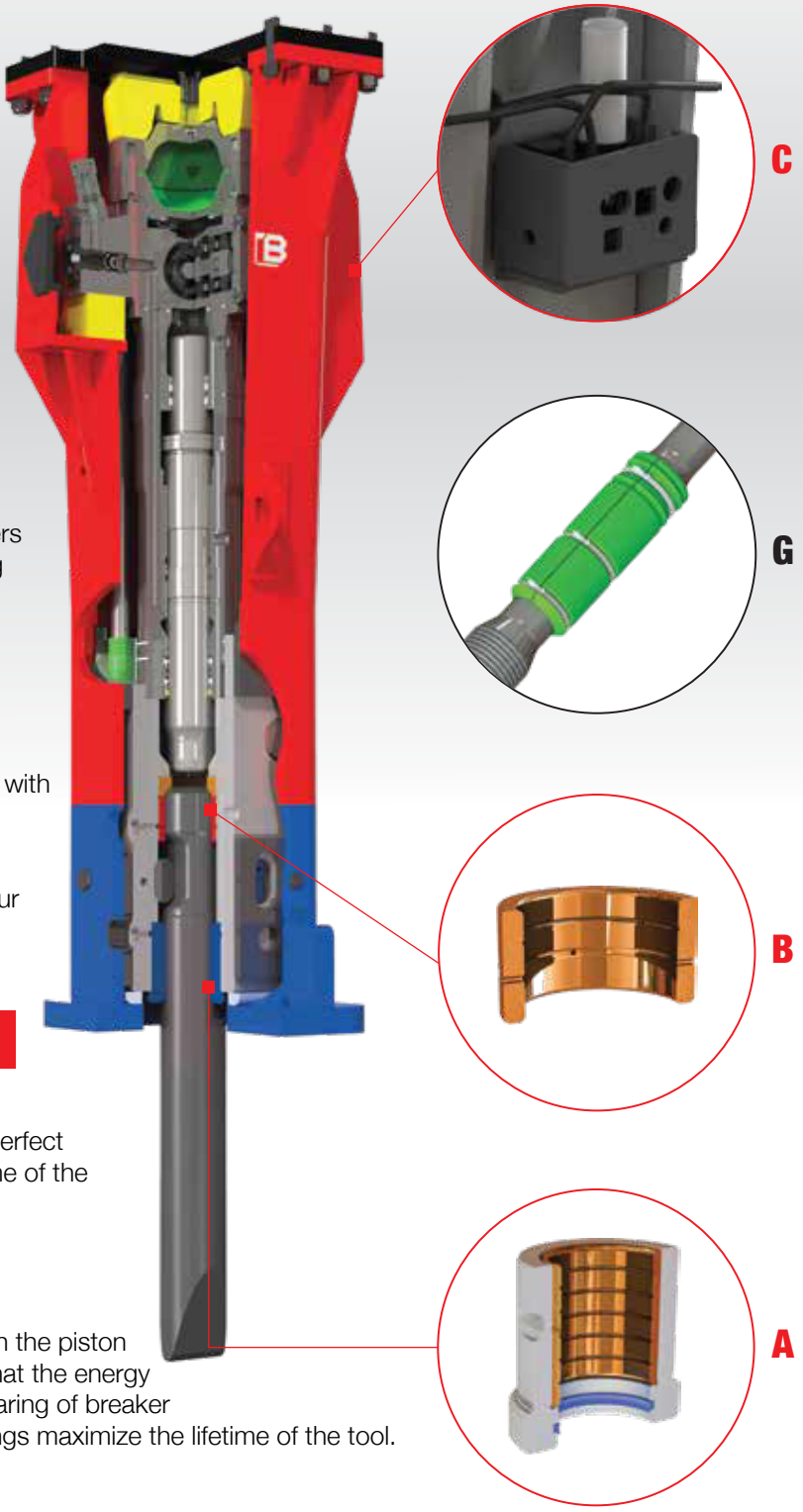
MORE DURABLE

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

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

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.

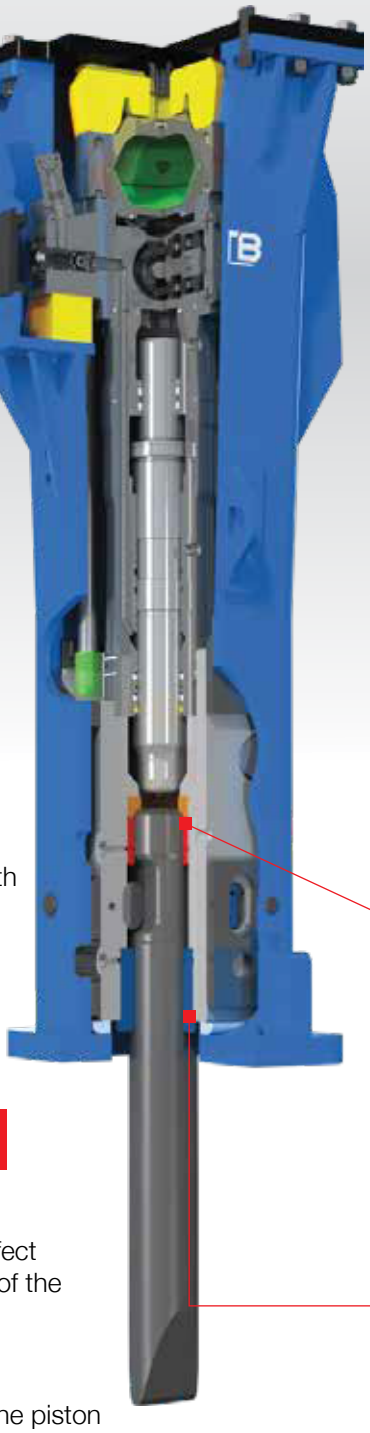
MORE DURABLE

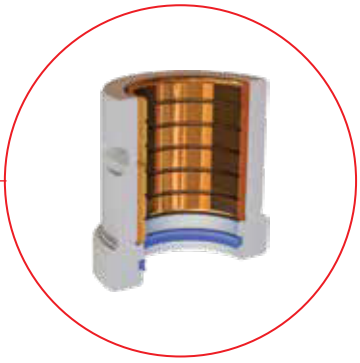
Hydraulic Cushioning
The hydraulic cushioning function on hydraulic breakers prolongs the lifetime of the components by preventing the piston from impacting the cylinder.

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.



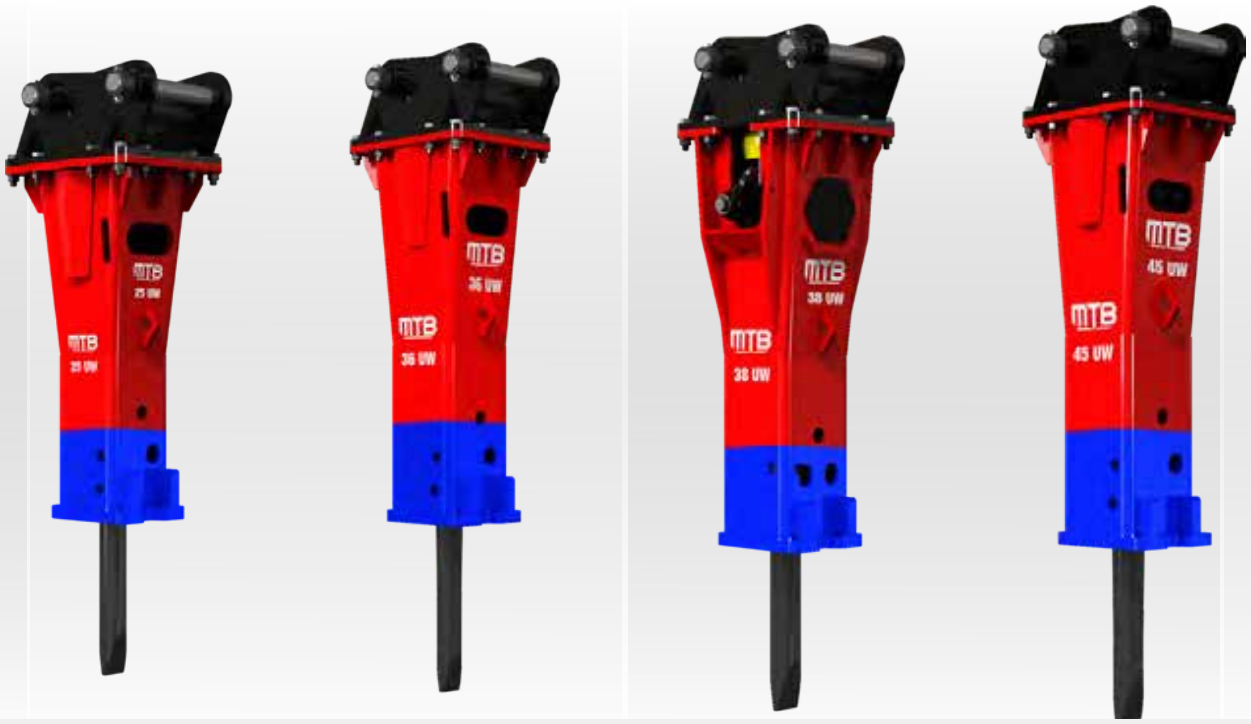


PERFORMANCE IMPROVING OPTIONS

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

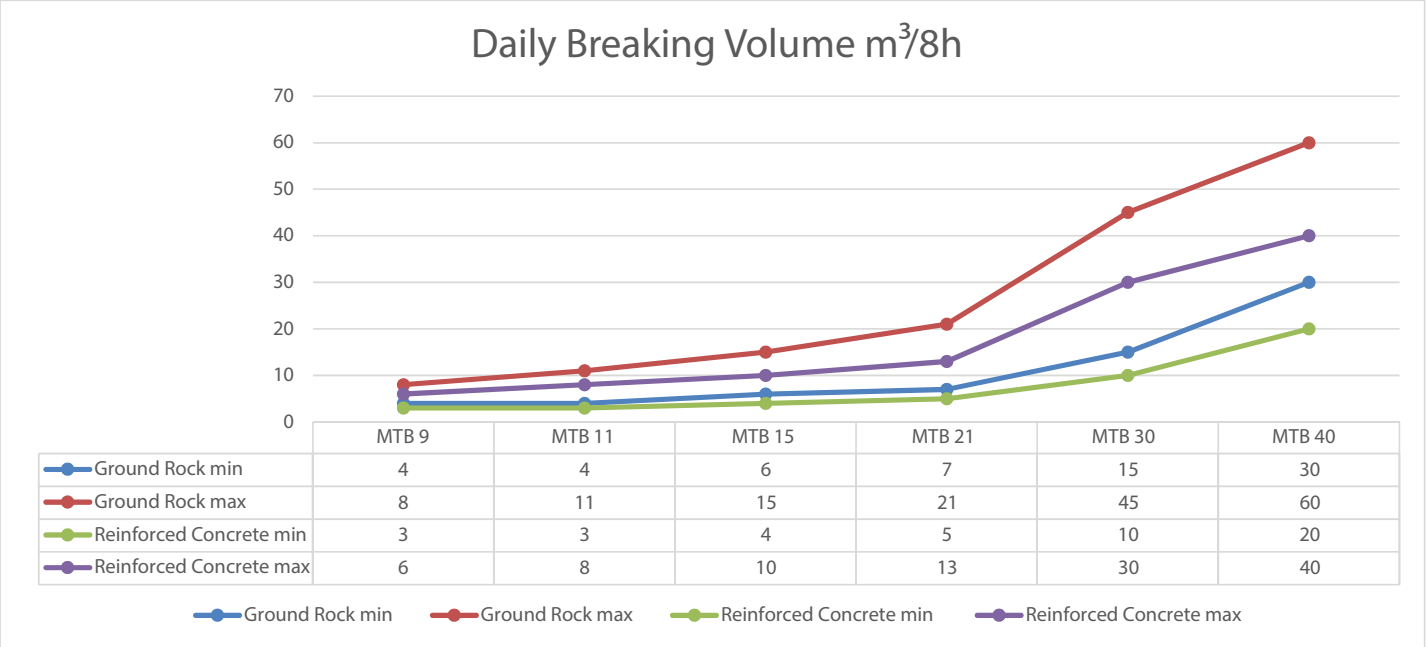
UW SERIES (UNDERWATER) MEDIUM TYPE HYDRAULIC BREAKER

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

UW SERIES (UNDERWATER) LARGE TYPE HYDRAULIC BREAKER

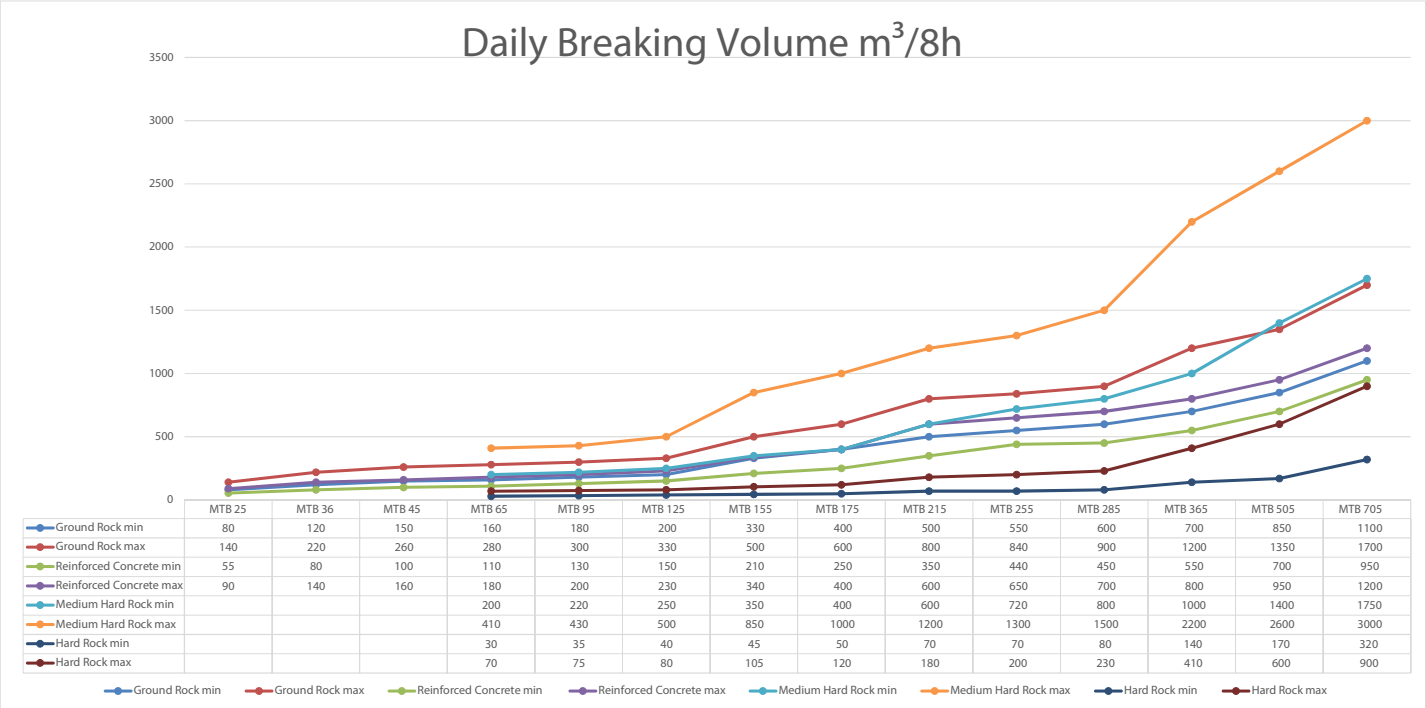
TECHNICAL INFORMATION		255 UW	285 UW	365 UW	505 UW	705 UW
Operating weight (a)	kg	2550	3000	3950	4650	7150
	lb	5620	6610	8700	10250	15760
Oil flow	l/min	190~240	210~260	220~270	230~300	250~350
	gal/min	50.2~63.4	55.5~68.7	58.1~71.3	60.8~79.3	66~92.5
Impact rate (b)	bpm	390~540	380~480	370~450	330~440	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

GAS TYPE BREAKER



	MTB 9	MTB 11	MTB 15	MTB 21	MTB 30	MTB 40
Ground Rock min	4	4	6	7	15	30
Ground Rock max	8	11	15	21	45	60
Reinforced Concrete min	3	3	4	5	10	20
Reinforced Concrete max	6	8	10	13	30	40

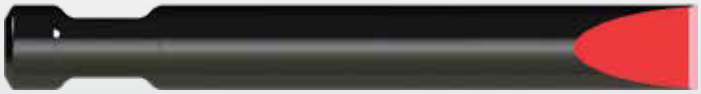
HYDRAULIC BREAKER



	MTB 25	MTB 36	MTB 45	MTB 65	MTB 95	MTB 125	MTB 155	MTB 175	MTB 215	MTB 255	MTB 285	MTB 365	MTB 505	MTB 705
Ground Rock min	80	120	150	160	180	200	330	400	500	550	600	700	850	1100
Ground Rock max	140	220	260	280	300	330	500	600	800	840	900	1200	1350	1700
Reinforced Concrete min	55	80	100	110	130	150	210	250	350	440	450	550	700	950
Reinforced Concrete max	90	140	160	180	200	230	340	400	600	650	700	800	950	1200
Medium Hard Rock min				200	220	250	350	400	600	720	800	1000	1400	1750
Medium Hard Rock max				410	430	500	850	1000	1200	1300	1500	2200	2600	3000
Hard Rock min				30	35	40	45	50	70	70	80	140	170	320
Hard Rock max				70	75	80	105	120	180	200	230	410	600	900

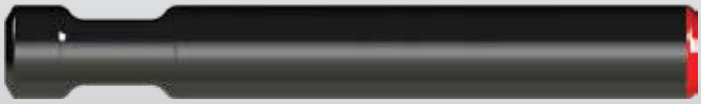
- Given values may vary depending on factors such as; place of use, the type and hardness of the material, assembly condition of the breaker, capability of the operator, etc. The values are approximate references.

STANDARD TOOL

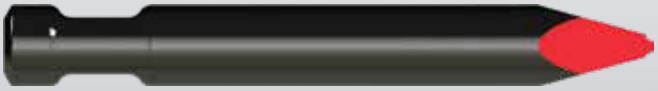


Chisel Tool
Used on flat surfaces, breaking of brittle surfaces, primary breaking operations, excavations, and drilling.

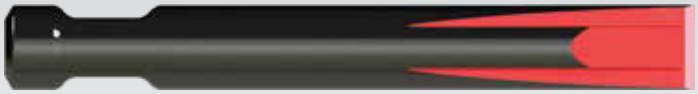
Moil Tool
Used on the primary breaking operations of metamorphic rocks in which the tool can penetrate through the weak and sedimentary rock.



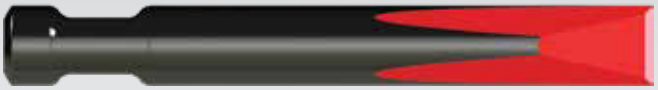
Blunt Tool
They're used for secondary working operations to crumble large boulders into smaller pieces. The risk of blank firing is low on these types of tools.



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 impactby 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.

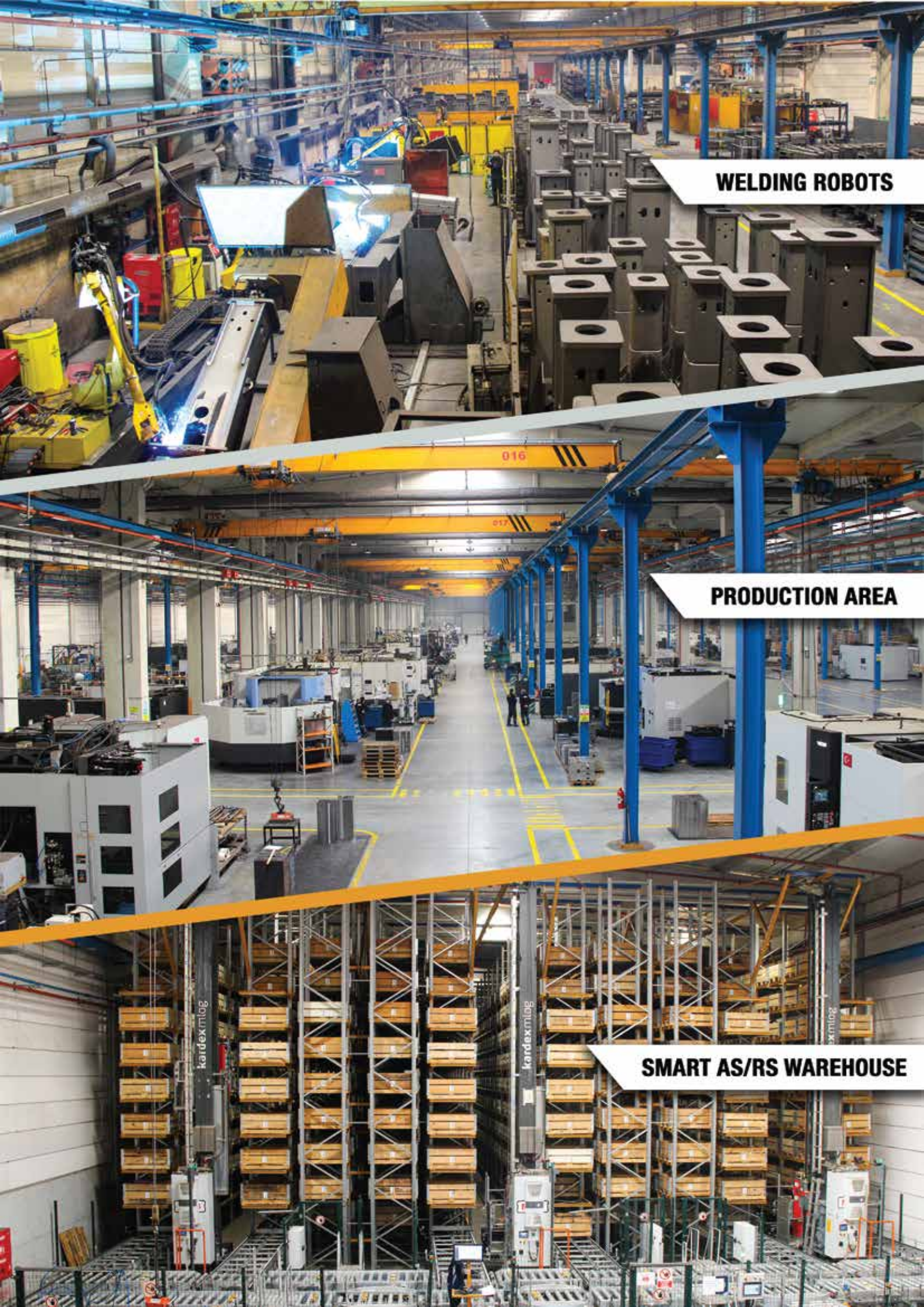
SPECIAL TYPE TOOLS

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.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