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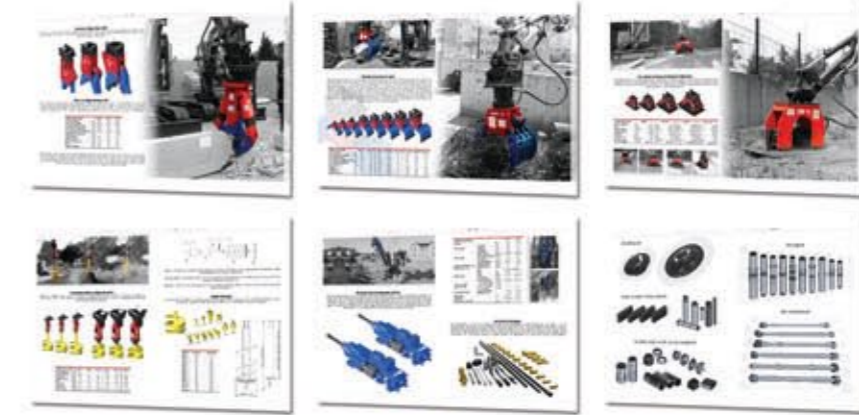
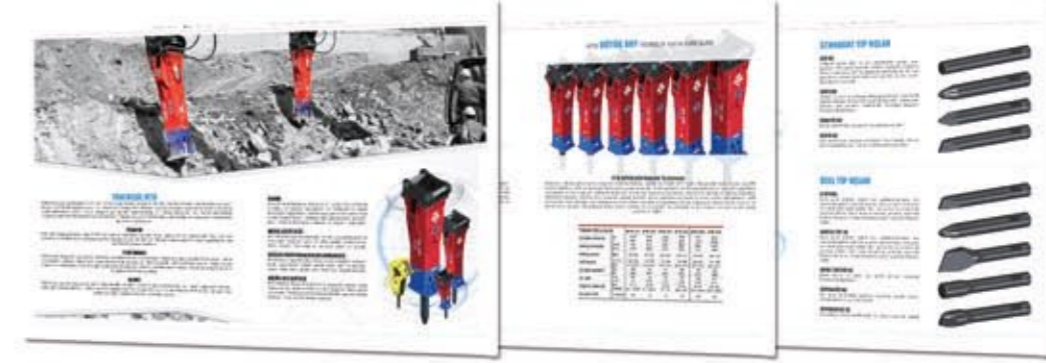


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**MTB's** PRODUCT RANGE







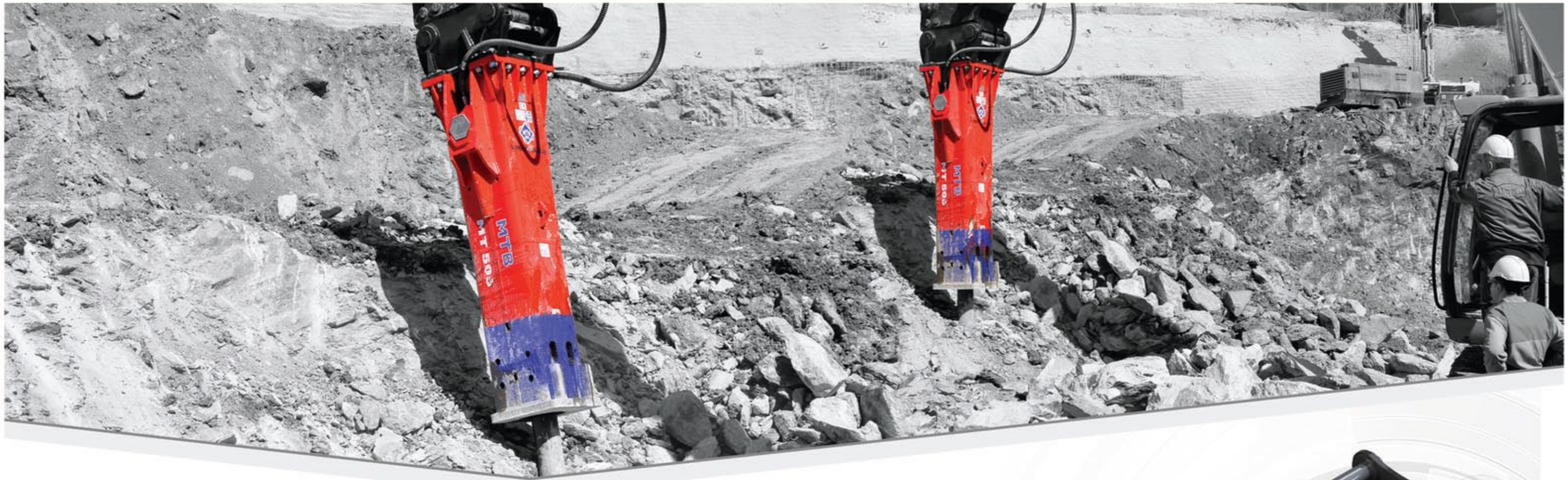
## ABOUT İNAN MAKİNA!

İnan Makina Sanayi ve Ticaret A.Ş. which deals with the reparation and maintenance of hydraulic breakers & earthmoving machines and manufacturing of the spare parts for more than 40 years in Turkey is founded by Mr. Mehmet Tuscuoğlu in 1972, and it reached the deserved reputation throughout the country with its production experience and high quality of its products on its area. İnan Makina achieved the manufacturing of the rock breakers for the first time in Turkey and produced its own "MTB" Hydraulic Rock Breakers in the beginning of the year 2002 in accordance with the opinions of its customers, as a result of the technical studies carried out for a long period of time. Best quality, profitable working and after sale services approach of İnan Makina brought "MTB" Hydraulic Rock breakers to the position of a brand which is candidate for the leadership in Turkey and in the world markets. MTB range has more than 20 hydraulic breaker models from 100 kg to 7 ton. MTB 500 (5 ton) and MTB 700 (7 ton) models which tests are completed, take part among the biggest breakers of the world. These breakers will become famous all over the world thanks to their perfect performances and superior breaking powers. İnan Makina, which targets developing new model breakers every year, participates in the most important fairs of the world, increases its targets both inside and abroad the country and proves to be a worldwide company. İnan Makina, which is moved to its own plants in İstanbul İkitelli Organized Industry Zone in the year 1996 for the purpose of providing under the modern conditions, feels the pride of answering the increasing domestic and foreign demands in its 10.000 square meters indoor area. İnan Makina, which founded a new production plant in 2008 year with 8.000 square meters, increased its production capacity and in addition to this started its activities on the subject of hydraulic attachments as well. İnan Makina, which maintains about 3000 ton superior quality steel as ready for manufacturing in its stocks, benefits from the advanced technology and its experience on its own structure at all of the stages from the stocks to the finished material production. 10.000 different spare parts of more than thirty rock breaker brands popular all over the world are available in company manufacturing. In addition to this, it can give the required metallurgical characteristics to the products in the full atmospheric controlled 6.5 tons capacity fully computer controlled heat treatment plant which it has established and also as the material is subject to the heat treatment process in the sub-zero furnace system (at the temperatures under zero). İnan Makina, which attaches importance on the high quality production subject in particular, is a ISO 9001 certified company, and it achieved to be an exemplary and pioneer organization from the selection of high quality raw material to the CNC machines having the high technology which is used at the production stage. Every stage of the production process is controlled in the metallographic and quality control laboratories that have been established in its structure. The processes of welding, grinding, grinding, painting, assembly and packaging that are other stages of production are performed by the most informed personnel of Turkey. İnan Makina is capable of meeting the demands instantly thanks to its branches and dealers in various regions of the country and by means of the mobile services which are composed of the well-educated and qualified personnel. In addition to this, by means of its wide product range and spare parts stocks, considered as principle the high quality and rapid services both inside and outside the country. İnan Makina is one of the great "fully integrated" organizations all over the world, having all of the stages during the conversion of the raw material to the finished products. Being of high quality of the products enabled it to be an international brand. İnan Makina is preferred by Germany, England, Spain, Italy, Portugal, Ireland, Austria, Switzerland, Poland, France, Bulgaria and Russia from the European countries and also USA, Africa, Middle East and Far East countries. İnan Makina, which works with its full power in order to reach to the better and higher quality products by means of adding its wide experience and high technology to the high quality steel material, will continue to be the leader "Breaker Power" of Turkey and all over the world. The Company purpose is to develop its products which are widely accepted in the international markets even more and to reinforce its position among the world giants.

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## NEW GENERATION MTB

MTB Hydraulic Breakers came out by the result of 40 years experience as training in hardest rocks and most difficult excavation conditions. The New Generation MTB Breakers are suitable for all type excavators. During the design of the breakers, it was cared the requirements from construction sector, different abroad customers and using all technical superiority of machining sector MTB Hydraulic Breakers have been produced. As a result of all these carefully preparations, it has been supplied a lot of technical developments according to other breaker brands.

### Design

MTB Hydraulic Breakers have been designed to easy operation for operators. There are special designs for all kind of applications as tunnel, underwater, marble mine etc. There are suitable models to all weight class excavators.

### Performance

MTB Hydraulic Breakers have been designed by focusing on the performance of the breaker. Although, MTB breakers need lower power from the excavator, MTB impact energies are higher than many other breakers. MTB breakers work at the low oil flow and pressure cause of it's design concept, thus there is less fuel consumption of excavator. MTB Hydraulic Breakers are operated continuously without interruption by special hydraulic suspension at the blank firing. With noise isolation protection, there is reduced noise level for cities.

### Service

There is worldwide services to reach customers with fast and quality aftersale service. There is short delivery time for spare parts with high quality. MTB Aftersale service is ready to serve you.

### Maintenance

There is less Daily service inspection items and maintenance interval, thus it provides easy operation and maintenance for operator. It is not necessary to recharge nitrogen, tightening-changing bolts. It's easy to replace tool without using hammer.

### Model Variety

There are many kinds of MTB models from 100 kg to 7 ton for all job condition and carrier machine weight class (concrete breaking, mines, tunnel, quarry, demolition, underwater, underground and etc.).

### Usable In Various Positions

MTB breakers can be operated in vertical, horizontal and various positions. Because MTB pistons are lighter and longer. In addition to this, MTB pistons are supported with more stronger and more seals.

### Low Noise Level

MTB inner parts do not directly touch to the housing. There are noise isolation sheets and plastic covers reduce the noise of breaker. Polyethilen and polyurethane buffers used in the housing, prevents metal to metal working.







## RENEWED VITAL PARTS

The New Generation MTBs' have been developed to increase working life and performance. Some vital parts' design has been modified.

### Strong Housing

Housing material is a special bending type material, that's why it is strong. Also the welds on housing are reduced and no housing bolts are used. This makes the housing more rigid and stronger.

### Strong Buffer Support

The buffer system (side, top and bottom buffers) that is used in MTB breakers, has a special impact and vibration absorbing properties. This protects the breaker and excavator.

### Piston

The stress coming to impact area has been reduced by getting longer impact area. Also it provides impact transfer to chisel with high efficiency.



### Front Head

With new front head design, the stress that is coming to the front head and side rod has been reduced. The area between side rod nut and tool pin has more stress during the operation. The stress has been decreased by increasing the distance between side rod nut - tool pin with NG MTBs. The NG MTBs' front head is more stronger than before.

### Side Rod

The New Generation MTBs' (NG MTB) side rod length is shorter than before and has mono anti-vibration rubber. Old series have two rubbers before; dust and mud stay between the rubbers. It causes stuck the side rod inside the front head. NG MTBs don't have this problem. Short side rod has less stress than longer side rod. It has been decreased 30% the stress that is coming on the side rod by new front head design. The thread of side rod is formed by high technology method instead of machining.

### High Breaking Power

Although, MTB breakers need lower power from the excavator, MTB impact energies are higher than many other breakers. This comes from the excellent design of MTB pistons.

### Flat Type Retainer

Flat type retainers contact face is not linear like like round retainers, it's planar. This is why the wearing life is longer than round type. Flat type retainer doesn't let the tool turning around.







### Blank Firing (Idle Stroke) Protection

MTB breakers work without touching the piston to cylinder (steel to steel) on blank firing time. Our MTBs have big volume oil cushion chamber than other brands. It makes strong hydraulic suspension. Thus, MTB breaker can be operated without interruption. Other brands use stop function or variable stroke control. "Stop function" works by relief control. Relief valve works continuously by opening and closing, thus hydraulic oil heats over and warmed oil cause problem with breaker and excavator components. "Variable stroke function" is designed by complicated valves on the breaker. Complicated parts always cause problems with breaker.

### Grease Pump

MTluBe grease pump design is different than other standard grease pumps. It's driven by vibration force of breaker. It doesn't work by hydraulic pressure and that's why there isn't necessary any hydraulic connection. It's only enough to connect grease line from pump to breaker. Easy maintenance, economic, adjustable flow rate, not effect breaker operation cause of without hydraulic connection.

### Thrust Ring/Tool

The thrust ring design has been changed completely. The chisel and thrust ring touching face angle has been changed from 45° to 60° degree. With this design, the touch-face area is much than before and it provides much longer wearing life. The retainer area of tool has been designed shorter than before, and retainers' thickness has been reduced. It will decrease premature breaking of tool at the retaining area after exceeding wearing limit of bushings.

### Big Volume Accumulator

Hydraulic Accumulator protects the breaker from peak pressure. The hydraulic accumulator doesn't need gas charging for a long time and recharging at the job site.

### Special Design For Tunneling Application

MTB New Generation "5 Series" have special piston design to increase working life. Superior breaking power and blank firing protection (hydraulic suspension) provide high performance, productivity and continuous operation without interruption (cause of there is non-stop function for blank firing). There is an autogreasing system and tool bushing wiper to continuous lubrication and prevent dust entering inside the breaker.

### C-Type Housing For Marble Mines

The breakers can be used sometimes like a "riper". This application is never recommended. Otherwise, housing will be damaged. MTB suggests to avoid to use hammer like a riper, but for this kind of application, MTB has developed the "C-Type" housing design if it is not possible to avoid. "C-Type" housing has long life and high quality for marble and heavy duty jobs.

### Underwater Application

MTB Breakers can be used for underwater applications effectively. If water fills the space where the piston strikes on tool, there occurs a strong pressure wave and the breaker may be damaged. There is an air line on the breaker to give compressed air to the piston impact area. Thus, compressed air prevents the bad effect of water by removing the water from piston impact area.







## YOUR SMALL FRIEND FOR BIG JOBS

Small Series MTB Breakers help to do your jobs with high power, performance, productive, safety, fastly and etc. There are 9 sort of small MTB models suitable for 1-10 ton class skid-steer-loader, mini-excavator and backhoe-loader. They are used for trenching, ditching, excavation, demolition, scaling in tunnel applications and wherever that the carrier machine can be operated. Small Series MTBs serve to customers with two different designs as "Gas Type" and "Hydraulic Type".



### MTB Gas Type Breakers

The impact energy is generated by hydraulic pressure and nitrogen gas pressure together at the top of the piston. There is gas chamber (back head) at the top of the piston and not included an accumulator, thus this type of breaker is called "gas type breaker". Gas Type MTB Breakers have effective power and performance if you prefer economic investment. They can be operated comparatively at the higher back pressure than hydraulic type breaker. Thus, this function can be another reason to choose gas type MTB breaker.

TECHNICAL INFORMATION		MTB 11	MTB 15	MTB 21	MTB 30	MTB 40	
WORKING WEIGHT	SIDE CONNECTION	Kg	100	120	180	280	430
		lb	220	264	396	616	946
	TOP CONNECTION	Kg	110	130	195	290	420
		lb	242	286	429	638	924
BOX TYPE	Kg	120	165	215	300	460	
	lb	264	363	473	660	1012	
IMPACT ENERGY	Joule	200	230	450	840	980	
	ft.lb	145	170	330	620	723	
IMPACT FREQUENCY	bpm	1140-1365	600-1150	600-1140	390-1000	450-1000	
MIN & MAX OIL SUPPLY	lpm	20-35	20-35	30-60	30-65	45-100	
	gpm	5.3-9.2	5.3-9.2	7.9-15.9	7.9-17.1	11.9-26.4	
OPERATING PRESSURE	Bar	120	85-150	120	105-155	100-140	
	psi	1740	1232-2175	1740	1523-2248	1450-2030	
TOOL DIAMETER	mm Ø	45	50	68	70	80	
	mm Ø	1.77	1.97	2.68	2.76	3.15	
CARRIER WEIGHT	Ton	1-2.5	1-3	2.5-6	3-8	4-10	
	1000 lb	2.2-5.5	2.2-6.6	5.5-13.2	6.6-17.9	8.8-22.1	
SOUND POWER LEVEL	LwA*(db)	125	125	127	127	130	
		122	122	124	125	127	

Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)= Measured Value + 3 dB)



### MTB Hydraulic Type Breakers

The impact energy is generated only by hydraulic pressure. There is no gas chamber at the top of piston, there is a hydraulic accumulator. Thus, this design is named as "Hydraulic Type Breaker". Accumulator compensates the pressure in the hydraulic circuit and prevent the pulsation, store hydraulic oil requirement for impact time, thus, increase power and performance. Hydraulic Type MTBs are given high class performance and easy operation for our customers.

TECHNICAL INFORMATION		MTB 25	MTB 35	MTB 36	MTB 38	MTB 45	
WORKING WEIGHT	SIDE CONNECTION	Kg	320	385	380	380	480
		lb	704	847	836	836	1056
	TOP CONNECTION	Kg	300	-	390	390	470
		lb	660	-	858	858	1034
BOX TYPE	Kg	310	-	400	400	490	
	lb	682	-	880	880	1078	
IMPACT ENERGY	Joule	470	900	900	900	1060	
	ft.lb	347	665	665	665	780	
IMPACT FREQUENCY	bpm	500-950	520-1000	520-1000	520-1000	500-900	
MIN & MAX OIL SUPPLY	lpm	30-60	50-100	50-100	50-100	50-100	
	gpm	7.9-15.9	13.2-26.4	13.2-26.4	13.2-26.4	13.2-26.4	
OPERATING PRESSURE	Bar	120	120	120	120	120	
	psi	1740	1740	1740	1740	1740	
TOOL DIAMETER	mm Ø	70	75	75	80	85	
	mm Ø	2.76	2.95	2.95	3.15	3.35	
CARRIER WEIGHT	Ton	2.5-6	3-8	3-8	3-8	4-10	
	1000 lb	5.5-13.2	6.6-17.9	6.6-17.9	6.6-17.9	8.8-22.1	
SOUND POWER LEVEL	LwA*(db)	127	130	130	130	130	
		125	127	127	127	127	

Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)= Measured Value + 3 dB)



## MTB MEDIUM SIZE HYDRAULIC BREAKERS



Hydraulic Breakers are chosen according to carrying capacity of the carrier machines. There are designed 5 sort of MTB models with 650 to 1870 kg weight for 7-29 ton class excavator. There are big size excavators are used at the open mine and quarry, and medium size breakers are not used at these applications. Medium Size MTB breakers are used for trenching, ditching, excavation, demolition, tunnel construction, underwater application and etc. Medium Size MTBs are given high class performance and easy operation with perfect design, high impact energy, low maintenance cost for you.

TECHNICAL INFORMATION		MTB 65	MTB 95	MTB 125	MTB 155	MTB 175
WORKING WEIGHT	Kg	750	900	1255	1650	1880
	lb	1650	1980	2760	3630	4136
IMPACT ENERGY	Joule	1450	1760	1880	2800	3300
	ft. lb	1070	1298	1385	2063	2431
IMPACT FREQUENCY	bpm	350-700	400-700	390-700	360-650	350-550
MIN & MAX OIL SUPPLY	lpm	60-120	70-130	70-130	100-180	120-180
	gpm	15.8-31.7	18.5-34.4	18.5-34.4	26.4-47.6	31.7-46.6
OPERATING PRESSURE	Bar	125	125	135	135	135
	psi	1815	1815	2000	2000	2000
TOOL DIAMETER	mm	95	100	115	125	135
	Inch	3.74	3.93	4.52	4.92	5.31
CARRIER WEIGHT	Ton	7-13	9-15	14-20	18-26	22-29
	1000 lb	15.4-28.7	19.8-33	24.3-39.7	39.7-57.3	48.5-61.7
SOUND POWER LEVEL	LwA*(dB)	128	128	127	130	129

Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)= Measured Value + 3 dB)

## MTB LARGE SIZE HYDRAULIC BREAKERS



There are 6 type of MTB models which are designed with 2200 to 7000 kg weight for 25-100 ton class excavator. Big Size MTB breakers are used at the open&close mine and quarry. Additionally, used for excavation, demolition, tunnel construction, underwater application and etc. Hydraulic Breakers are chosen according to carrying capacity of the carrier machines. Generally big size breakers are preferred for high breaking volume in short term jobs. Big Size MTBs have high impact power and performance for high breaking volume in short time term. You can live low maintenance and high performance requirements together with Big Size MTBs.

TECHNICAL INFORMATION		MTB 215	MTB 255	MTB 285	MTB 365	MTB 505	MTB 700
WORKING WEIGHT	Kg	2200	2520	2950	3800	4500	6950
	lb	4840	5544	6490	8360	9900	15290
IMPACT ENERGY	Joule	4500	5610	6000	8000	9800	13000
	ft. lb	3320	4138	4427	5902	7230	9588
IMPACT FREQUENCY	bpm	350-550	330-525	320-520	320-510	300-420	285-400
MIN & MAX OIL SUPPLY	lpm	160-230	180-250	170-280	180-280	220-300	250-350
	gpm	42.3-60.8	47.6-66.0	44.9-73.9	47.54-73.9	58.1-79.2	66.0-92.4
OPERATING PRESSURE	Bar	140	140	140	140	140	150
	psi	2035	2035	2035	2035	2035	2180
TOOL DIAMETER	mm	145	150	160	175	190	210
	Inch	5.7	5.90	6.30	6.89	7.48	8.27
CARRIER WEIGHT	Ton	25-32	29-40	33-50	40-65	45-70	60-100
	1000 lb	55.1-70.50	61.7-88.2	77-110	88.2-143	99.2-154.4	132.3-220.5
SOUND POWER LEVEL	LwA*(dB)	135	132	130	129	130	128

Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)= Measured Value + 3 dB)



## MTB C - TYPE HYDRAULIC BREAKERS

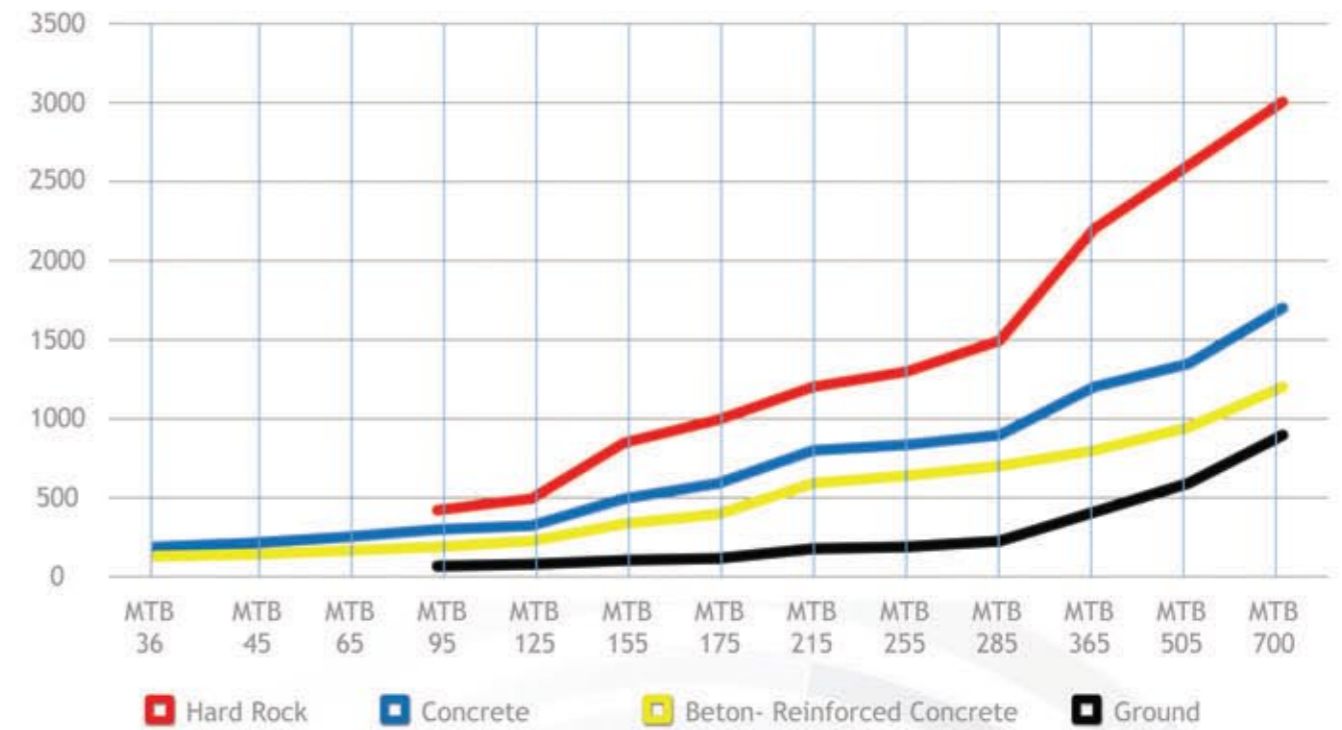


MTB-C Type Hydraulic Breaker has a special design for marble mine and heavy duty job site which has abrasive rock condition. The housing has a special design and manufactured with wearing resistance material. The side plate of housing is "complete sheet steel plate" without welding To prevent the lateral forces effects on the welding. For marble and heavy duty mine application, there are designed 6 sort of MTB models with 2200 to 7000 kg weight for 25-100 ton class excavator.

TECHNICAL INFORMATION		MTB 215	MTB 255	MTB 285	MTB 365	MTB 505	MTB 700
WORKING WEIGHT	Kg	2320	2655	3200	3800	5100	7200
	lb	5105	5841	7040	8360	11220	15840
IMPACT ENERGY	Joule	4500	5610	6000	8000	9800	13000
	ft. lb	3320	4138	4427	5902	7230	9588
IMPACT FREQUENCY	bpm	350-550	330-525	320-520	320-510	300-420	285-400
MIN & MAX OIL SUPPLY	lpm	160-230	180-250	170-280	180-280	220-300	250-350
	gpm	42.3-60.8	47.6-66.0	44.9-73.9	47.54-73.9	58.1-79.2	66.0-92.4
OPERATING PRESSURE	Bar	140	140	140	140	140	150
	psi	2035	2035	2035	2035	2035	2180
TOOL DIAMETER	mm	145	150	160	175	190	210
	Inch	5.7	5.90	6.30	6.89	7.48	8.27
CARRIER WEIGHT	Ton	25-32	29-40	33-50	40-65	45-70	60-100
	1000 lb	55.1-70.50	61.7-88.2	77-110	88.2-143	99.2-154.4	132.3-220.5
SOUND POWER LEVEL	LwA*(dB)	135	132	130	129	130	128

Guaranteed sound power testing results according to directive 2000/14/EC (Guaranteed dB(A)= Measured Value + 3 dB)

### DAILY BREAKING VOLUME m<sup>3</sup>/8 HOURS

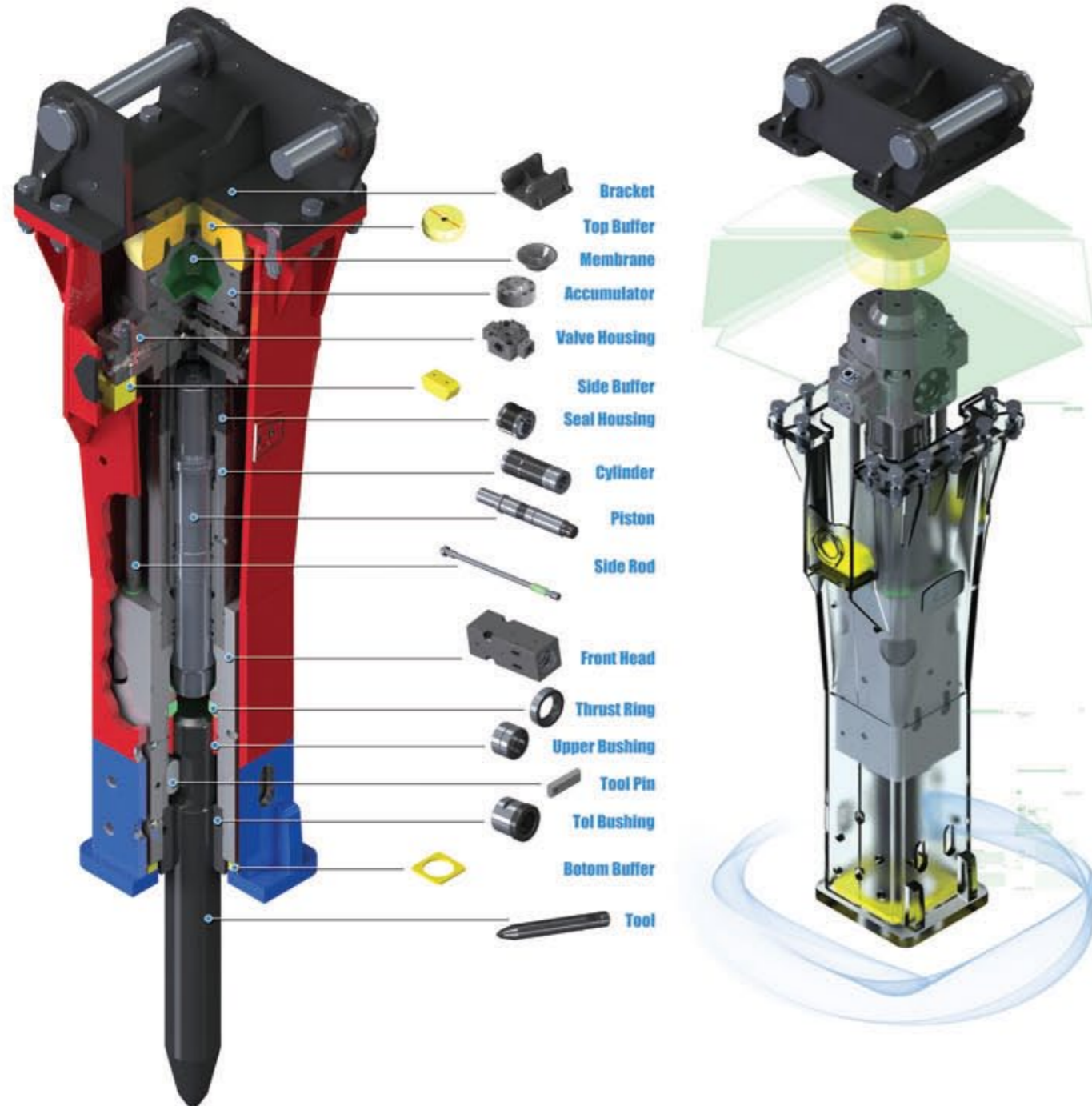


Note: There is a given daily breaking volume on the table. These data vary substantially, depending on the place of usage, the hardness and type of the material to be crushed, the mounting base machine, the operator's skill and etc.





## SECTION VIEW OF MEDIUM AND LARGE MTB BREAKERS



## STANDARD TOOLS

### Blunt Tool

For igneous (e.g. Granite) and tough metamorphic rock (e.g. Gneiss) into which the tool doesn't penetrate. At secondary breaking application. Breaking boulders.

### Moil Tool

For sedimentary (e.g. Sandstone) and weak metamorphic rock into which the tool penetrates. Used for concrete, hard abrasive ground, breaking of brittle rock.

### Pyramite Tool

For concrete

### Chisel Point Tool

Excavation of bedrock, breaking on the flat ground. Breaking of brittle rock, For primary breaking application. Trenching and benching.



## SPECIAL TOOLS

### Chisel - G Type

This tool is used at dusty places to take away dust from tip of tool. There are channels to let the dust go out from the tip.

### Cone - X Type

This tool is used at dusty places to take away dust from tip of tool. There are channels to let the dust go away from the tip.

### Asphalt Cutter

This tool is used to cut asphalt for trenching

### Super Blunt

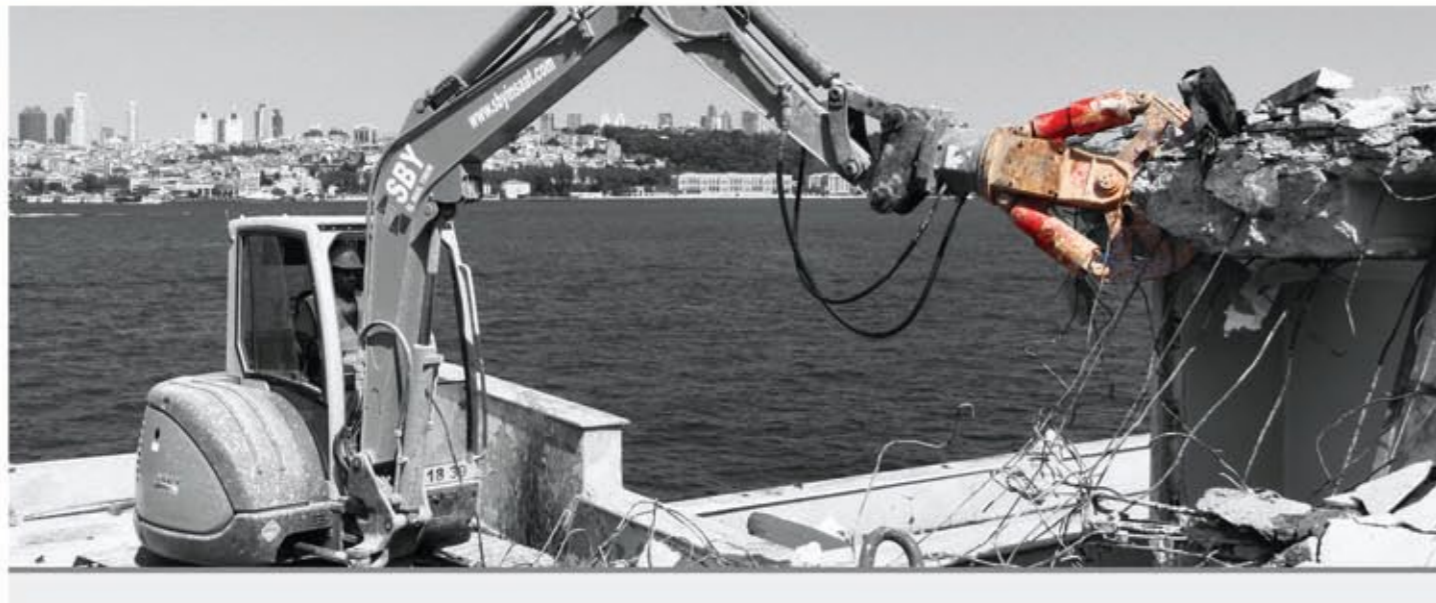
This tool is used for increasing the wearing resistance of blunt tool

### Super Chisel

This tool is used at soft rock if there is blank firing/Idle stroke.







## MTB DEMOLITION ATTACHMENTS

Mtb Demolition Attachments are useful for primary and secondary concrete demolition. There are different designs for demolition applications. There are technical specifications of primary and secondary demolition attachments.

### Crusher-CRS

The jaw design is suitable for cutting concrete and reinforced concrete structures as a primary demolition. Behind the jaws, there are steel blades to cut iron bars inside the concrete.



TECHNICAL INFORMATION		CRS 04	CRS 17	CRS 20	CRS 20M	CRS 25
WEIGHT	Kg	500	1750	2300	2150	2800
OIL FLOW (CYLINDER)	Lpm	40-100	200-250	200-250	200-250	250-300
PRESSURE (CYLINDER)	Bar	200x2	350	350	350	350
OIL FLOW (ROTATION)	Lpm	20-40	20-40	20-40	20-40	20-40
PRESSURE (ROTATION)	Bar	110-120	110-120	110-120	110-120	110-120
CRUSHING FORCE	Ton	53	70	90-130	90-175	105-128
CUTTING FORCE	Ton	220	247	385	320	355
JAW OPENING - A	mm	450	880	900	900	1080
CUTTER LENGTH - B	mm	125	180	225	180	250
OVERALL LENGTH - C	mm	1295	1870	1885	2070	2380
CARRIER WEIGHT	Ton	5,5-9	14-20	20-35	20-35	25-38

### Demolition Crusher- DCR

The jaw design is combination of crusher and pulverizer. It is useful for primary demolition of weak concrete structures and secondary demolition. The jaws can do crushing and pulverizing applications. Behind the jaws, there are steel blades to cut iron bars inside the concrete.



TECHNICAL INFORMATION		DCR 15	DCR 20
WEIGHT	Kg	1750	2350
OIL FLOW (CYLINDER)	Lpm	200-250	200-250
PRESSURE (CYLINDER)	Bar	350	350
OIL FLOW (ROTATION)	Lpm	20-40	20-40
PRESSURE (ROTATION)	Bar	110-120	110-120
CRUSHING FORCE	Ton	70	93
CUTTING FORCE	Ton	232	271
JAW OPENING - A	mm	680	870
CUTTER LENGTH - B	mm	180	280
OVERALL LENGTH - C	mm	2000	2100
CARRIER WEIGHT	Ton	14-20	20-35



### Shear-SHR

Shear is available to cut rebar, iron blocks of steel structures (building, road beams etc.), dismantle the ships for recycling and etc. It allows primary demolition of the steel structures quite, fast and safe.



### Pulvarizer-PLV

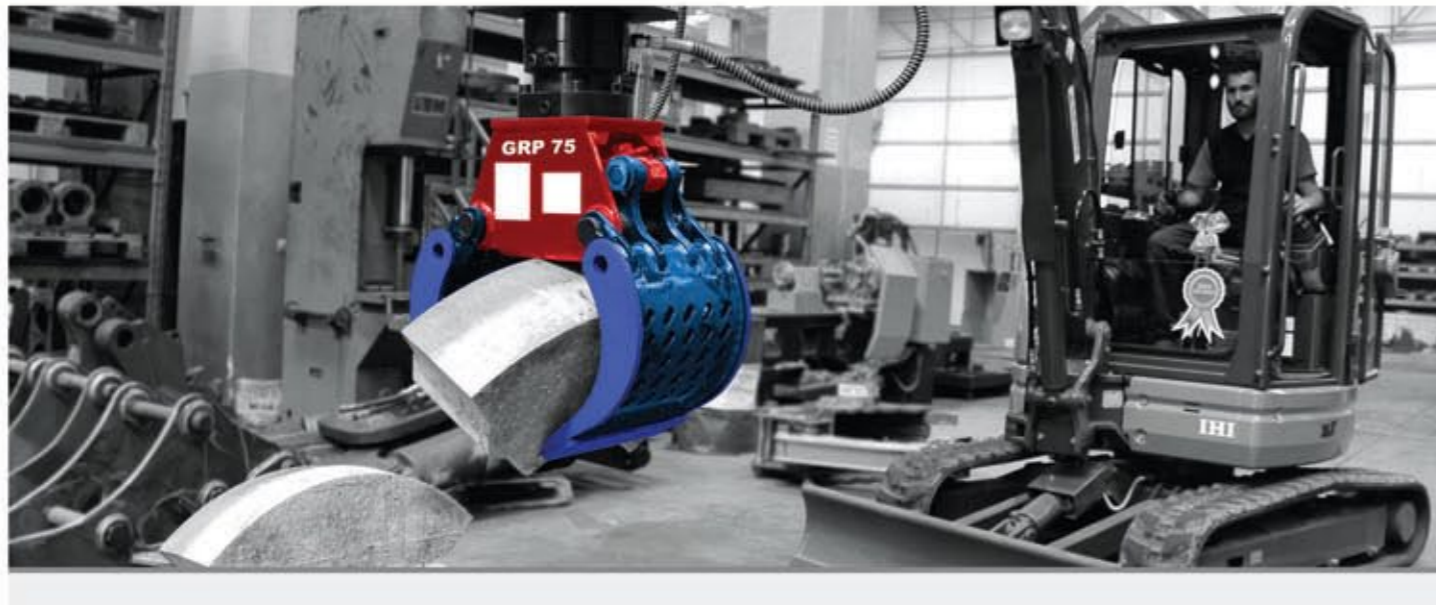
Ideal for secondary concrete demolition, where the steel is separated from the concrete and the concrete debris is recycled directly. The pulverized concrete can for instance be re-used as building material to fill up roads and cover steel bars. It is also suited to cut reinforcement steel and suited for light primary demolition activities such as: wrecking vertical constructions such as average sized walls and flat, rectangular pieces of stone. Also ideal for quickly and noiselessly demolishing tarmac road surfaces.

TECHNICAL INFORMATION		SHR 25	PLV 22	PLV 25
WEIGHT	Kg	2200	3200	2800
OIL FLOW (CYLINDER)	Lpm	250-300	250-300	200-250
PRESSURE (CYLINDER)	Bar	350-450	350	350
OIL FLOW (ROTATION)	Lpm	20-40	20-40	20-40
PRESSURE (ROTATION)	Bar	120-130	120-130	110-130
CRUSHING FORCE	Ton	-	87	77-125
CUTTING FORCE	Ton	565	336	275
JAW OPENING - A	mm	475	845	906
CUTTER LENGTH - B	mm	515	180	200
OVERALL LENGTH - C	mm	2325	2770	2320
CARRIER WEIGHT	Ton	20-32	35-45	30-40

MTB Demolition Attachments Housing design is strong and produced from high wearing resistance material. The body has low weight compared to others. There are two strong cylinders for high performance and power. The blades on the jaw can cut the reinforced steel easily. Easy to operate and quick to open and close the jaws and rotate 360 for safe positioning.





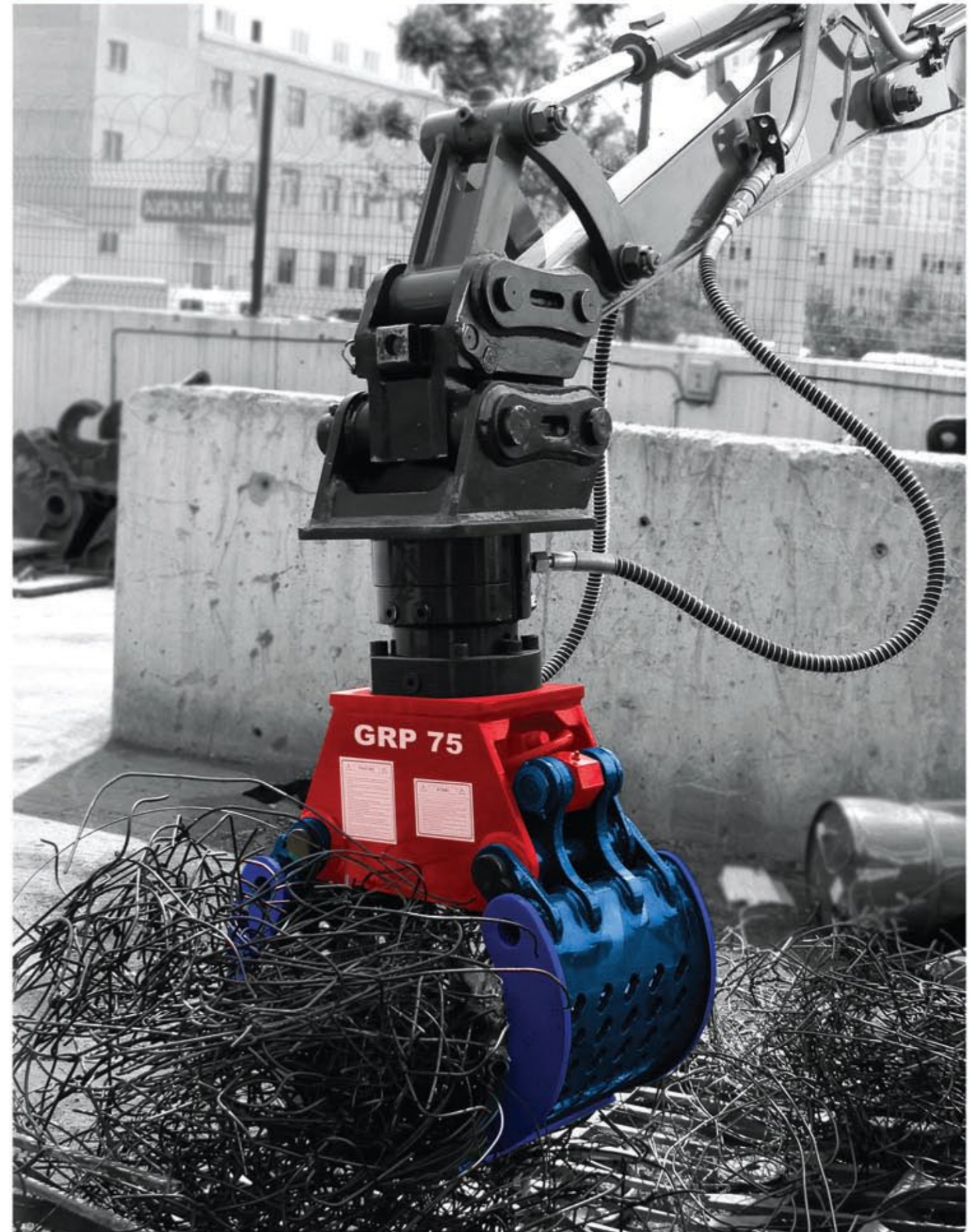


### MTB DEMOLITION/SORTING GRAPPLE (GRP SERIES)

MTB Hydraulic Grapples are applicable for recycling purpose in building and demolishing. Operator can use the machine for demolition, sorting, loading, sifting, handling&loading the material and etc. It's easy to position the grapple with 360 degree rotation function. It means that the using of this machine: less danger of collapse, less dust, safety for human, machine and environment etc. MTB Multi-purpose grab for variable use and handling of different materials, as; demolition of weak structures, handling of construction waste, debris, recycling material, horticultural waste, loading and laying of the Stones at road, harbours, weir and etc. applications, cleaning and restoration of stream and lakes. The shells are reinforced by hardox to get high strength. There are wearing resistant blades on the shells and there are one or two cylinders (according to the model) moving the shells. The blades position can be exchanged after wearing in long-term use. The compact body is available mounting on high-reach boom. During handling the materials with grapple, if pressure reduces suddenly due to the hose damage, unloading valve doesn't let the grapple leave the materials and keeps to grab the materials. There is relief valve to protect the rotation motor from peak pressure.



TECHNICAL INFORMATION		GRP 75	GRP 250	GRP 450	GRP 800	GRP 1000	GRP 1400	GRP 2000	GRP 2500
WEIGHT	Kg	120	255	380	650	1080	1380	1700	2150
PRESSURE (CYLINDER)	Bar	200	250	250	250	320	320	320	320
OIL FLOW (CYLINDER)	Lpm	10-40	40-70	40-70	70-90	100	100	100	120
PRESSURE (ROTATION)	Bar	320	320	320	320	170	170	170	170
OIL FLOW (ROTATION)	Lpm	6-22	6-22	10-20	10-20	30-40	40	40	40
JAW OPENING - A	mm	900	1050	1300	1680	1810	1960	2127	2325
WIDTH - B	mm	325	500	600	800	900	1000	1100	1255
HEIGHT - C	mm	750	760	950	1060	1400	1480	1455	1635
CARRIER WEIGHT	Ton	1-2	3-5	6-9	9-14	12-20	17-28	20-32	25-40







### MTB COMPACTOR (CMP SERIES)

CMP Hydraulic Compactors are mounted on Mini Excavators, Backhoe - Loaders, Excavators and similar Main Machines with hydraulic power unit. Hydraulic compactor compacts by high frequency impact power. This vibration force is used for compaction of soil, granular material, piles, driving of post and stel sheeting timber. The optional rotation function turns the compactor 360°.



TECHNICAL INFORMATION	CMP 16		CMP 40		CMP 70		CMP 120	
OPERATING WEIGHT	240kg	(490 lb)	505kg	(1100 lb)	865 kg	(1885 lb)	1020 kg	(2223 lb)
POWER	1550kg	(3500 lb)	3000kg	(6500 lb)	6000kg	(13500 lb)	9900 kg	(22000 lb)
FREQUENCY	2100 N/min	(2100 GPM)	2000 N/min	(2000 CPM)	2000 N/min	(2000 CPM)	2100 N/min	(2100 CPM)
OPERATING PRESSURE	150bar	(2200 psi)	150bar	(2200 psi)	150bar	(2200 psi)	150bar	(2200 psi)
OIL FLOW	35LPM	(10 GPM)	75LPM	(20 GPM)	110 LPM	(30 GPM)	210 LPM	(55 GPM)
HEIGHT - C	550 mm	(20 in)	550 mm	(22 in)	700 mm	(27 in)	750 mm	(30 in)
BOTTOM PLATE - AxB	450x950 mm	(16x31 in)	690x870 mm	(25x34 in)	840x1050 mm	(29x40 in)	860x1100 mm	(34x47 in)
CARRIER WEIGHT	1,5-6 ton	(3300-13200lb)	4-10 ton	(8800-22000 lb)	10-25 ton	(22000-55000lb)	25-60 ton	(55000-132000 lb)





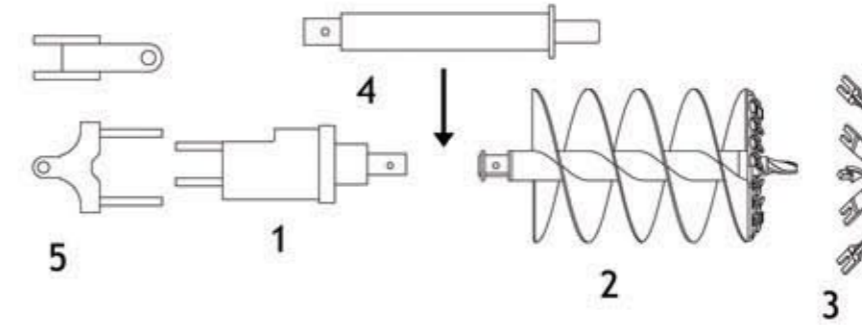


## MTB AUGER (AGR SERIES)

For use on skid loaders, tractors, mini excavators, excavators, backhoe - loaders truck cranes and etc. AGR auger driver are an economical, robust solution for drilling holes for fence posts, poles, foundations, and landscaping. Applications specific wear parts and augers mean our auger packages are tailor - made to suit your needs.



TECHNICAL INFORMATION		AGR 3	AGR 5	AGR 8	AGR13	AGR 18	AGR 25
AUGER WEIGHT	Kg	90	98	107	155	162	312
CARRIER WEIGH	Ton	0.75-2	2-5	5-8	8-25	20-32	20-40
OUTPUT TORQUE	Nm	1700	3250	5600	12100	17700	32500
WORKING PRESSURE	Bar	240	240	240	240	240	240
OIL FLOW	Lpm	15-45	25-60	25-75	90-180	90-220	90-220
SQUARE DRIVE	mm	57	57	57	75	75	100
SPEED	Rpm	30-90	35-85	18-55	35-70	20-52	12-26
SUITABLE AUGER	Rpm	MA 20-MA60	MA 20-MA60	MA 20-MA60	MA 20-MA120	MA 20-MA150	MA 20-MA150



**Profitable** - With better speed and precision than alternative drilling methods, the MTAG drive units and augers save your time, labor and filling materials.

**Adaptable** - A range of drive units with different auger diameters and digging teeth means MTAG is available for all types of excavators, and suitable for a wide variety of applications.

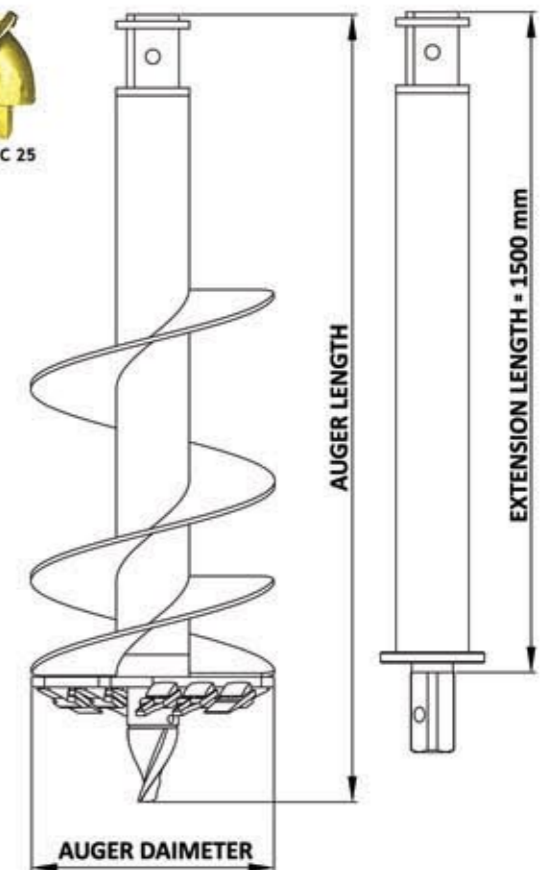
**Durable** - Designed and built to last, MTAG drive unit can handle hundreds of consecutive cycles.

## WEAR PARTS

All round teeth: made of tempered material, bolt-on teeth are suitable for earth and clay. Strong tungsten teeth: tungsten tipped, suitable for medium - rich soil, stony or frozen ground, heavy clay or asphalt.



AUGER	DIAMETER mm	LENGTH mm
MA20	200	900
MA25	250	900
MA30	300	900
MA35	350	1200
MA40	400	1200
MA45	450	1200
MA50	500	1200
MA60	600	1200
MA75	750	1200
MA80	800	1200
MA90	900	1600
MA100	1000	1600
MA120	1200	1600
MA150	1500	1600



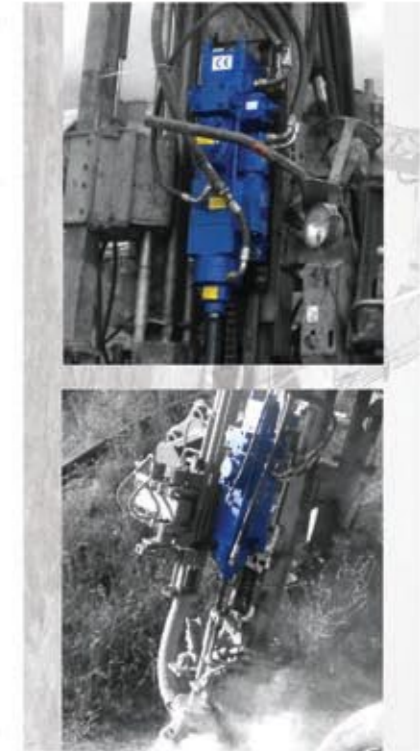




### MTB DRIFTER (DRF SERIES)

DRF drifter is designed to drill hard rock by hammering, rotating and flushing rock particles, of which system is consisted of a simple and practical component. Hydraulic drifter is composed flushing part, rotation device and hammering-device. High drilling speed has been attained by increasing the efficiency of hammering energy, which increase the life of consumables. Automatic pressure regulator is provided to adjust pressure in order to meet the various rock properties. DRF drifter is used for; drilling hole for explosion preparations at the mines, mounting steel construction on the wall of tunnel constructions.

TECHNICAL INFORMATION		DRF 3	DRF 4
WEIGHT	Kg	210	214
EXTERNAL DIMENSIONS	LENGTH	920	931
	WIDTH	340	340
	HEIGHT	325	325
IMPACT DEVICE	NUMBER OF BLOWS	2500-2800	2500-2800
	SINGLE BLOW ENERGY	34	34
	OIL FLOW	75-90	75-90
	WORKING PRESSURE	130-160	130-160
N <sup>2</sup> GAS PRESSURE IN ACCUMULATOR (20° C)	HIGH PRESSURE	47±3	47±3
	LOW PRESSURE	4±1	4±1
	GAS	AZOT	AZOT
ROTATION DEVICE	REVOLUTION	0-220	0-115
	TORQUE	MAX. 60	MAX. 100
	OIL FLOW	70	75
	WORKING PRESSURE	MAX. 140	MAX. 190
AIR CONSUMPTION AT 7kgf/cm <sup>2</sup>	1 1/2" 38mm ROD	4	
	1 3/4" 45mm ROD	6.5	6.5
	2" 51mm ROD		10
WORKING TEMPERATURE	AIR FLUSHING	+20-+40	+20-+40
	HYDRAULIC OIL	+40-+60	+40-+60
DRILLING DIAMETER	mm	64-102	76-115
SHANK ADAPTER THREAD	-	T38, R38, T45	T45, T51



### Rock Drilling Equipments (MTBits)

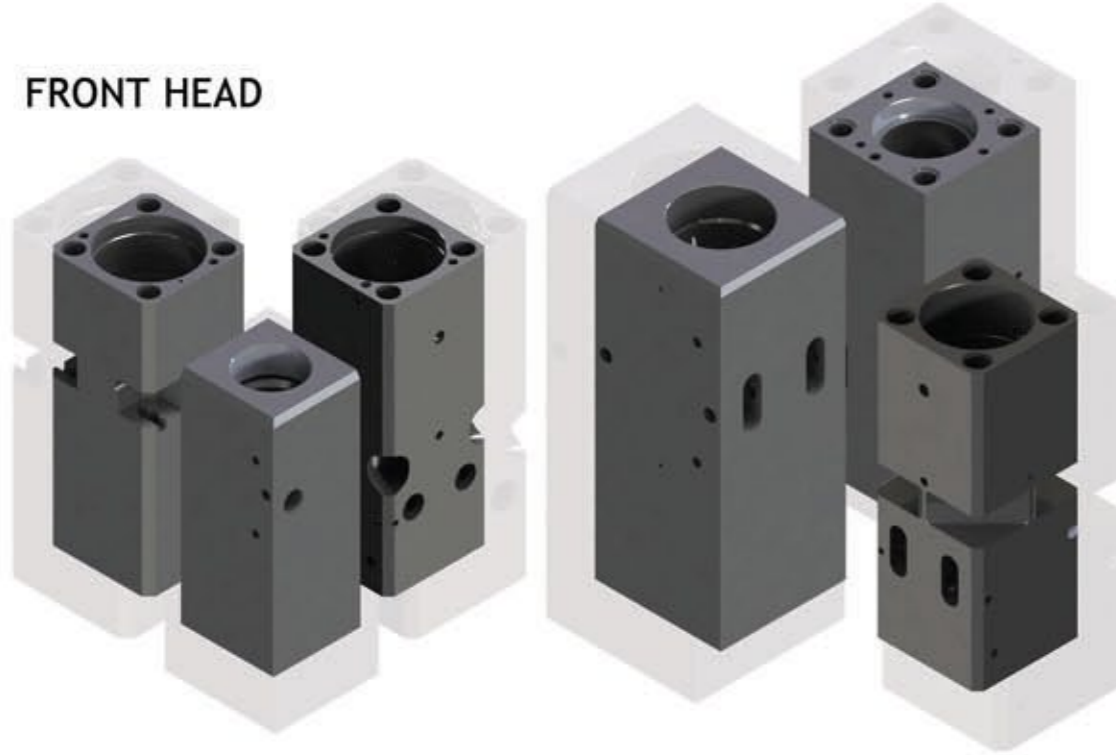
Rock Drilling Equipments and Spare Parts are used for fast and reliable drilling application that are produced with latest manufacturing technologies for long life and best quality. There are many different bit design to suit all kind of rock and ground conditions. Special material is used for bits body and tungsten carbides on the bit have long wearing life. It allows users fast drilling operation and extended life of bits. We can supply all kind of drilling equipments and spare parts.





## SPARE PARTS

FRONT HEAD



UPPER BUSHING

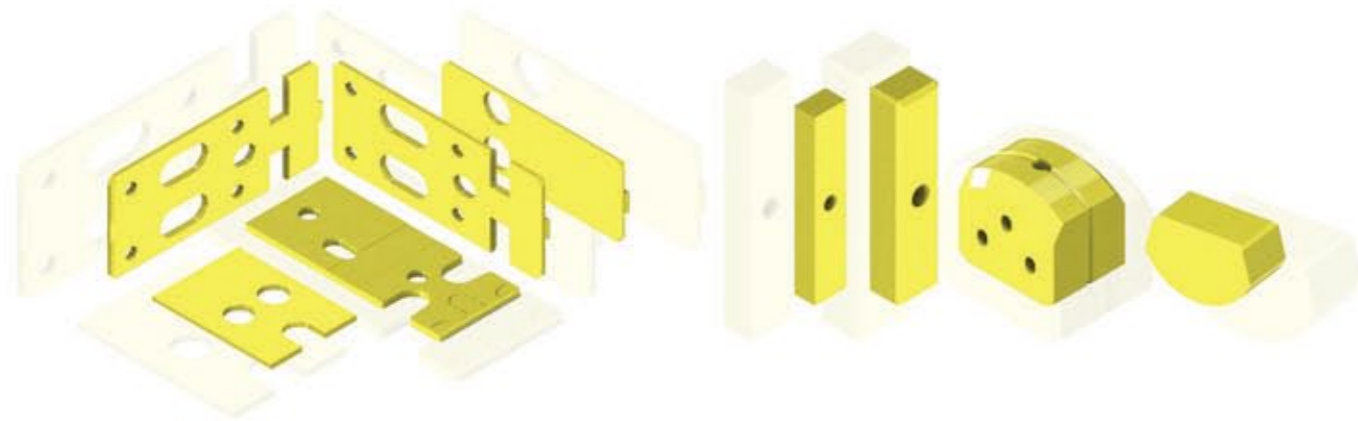


THRUST RING



WEARING PLATE

SIDE BUFFER



TOP BUFFER



TOOL (LOWER) BUSHING





MEMBRANE (DIAPHRAGM)



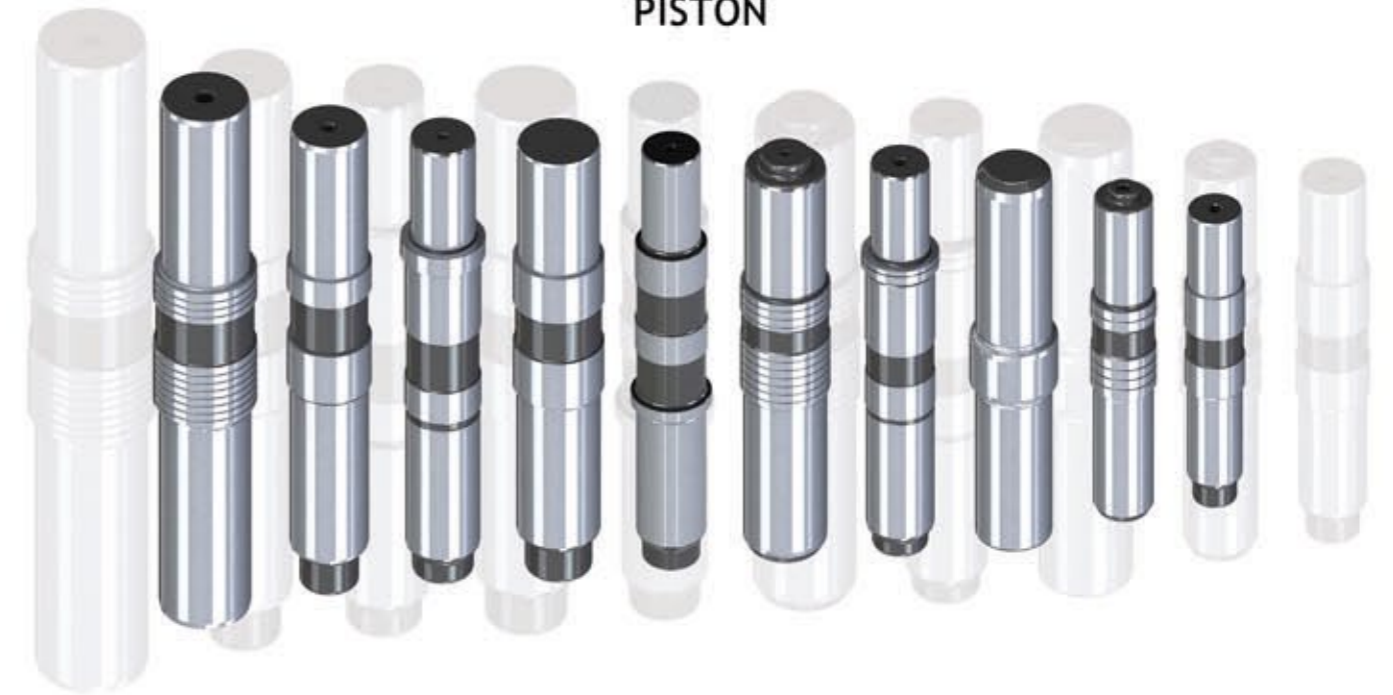
TOOL PIN (RETAINER)



CYLINDER, SEAL HOUSING and BACK HEAD



PISTON



SIDE ROD





MTB ATTACHMENTS



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graphic design

