



Miles ahead

[www.xcentricripper.com](http://www.xcentricripper.com)

# A Revolution in Rock Excavation



The Xcentric Ripper is an excavator attachment developed with the latest advances in excavation and demolition systems in mind.

Patented by industry trailblazer Grado Cero Sistemas, the Xcentric Ripper meets the highest standards in excavation and demolition sectors around the world. It is exceptionally efficient due to its revolutionary design.

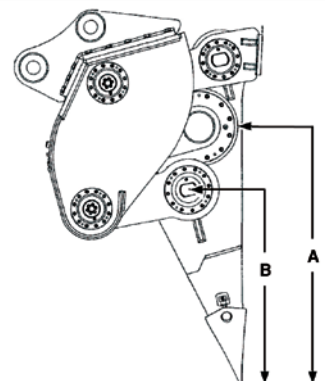
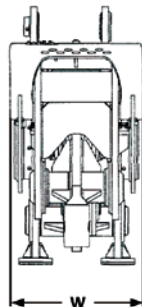
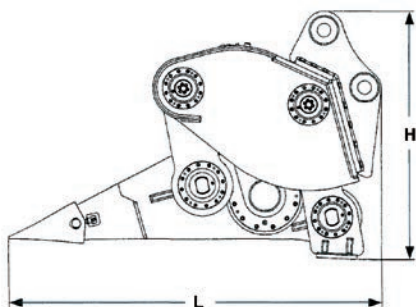


Made completely of wear-resistant steel, this attachment device is nearly maintenance free, less noisy than any other excavation tool, can be used under water without any damage risk and can be adapted to countless work sites. Thanks to its uncomplicated mechanical design and cost-effective components, maintenance costs are very low and down times are minimal.

# Standard specifications

Item	Model	XR 10	XR 15	XR 20	XR 30	XR 40
Hydraulic excavator	tonnes	7-10	11-16	18-24	24-30	32-40
	lb	15432-22046	24250-35274	39683-52911	52911-66138	70547-88185
Mass of ripper (incl. top bracket)	kg	930	1700	2500	3300	4200
	lb	2050	3747	5511	7275	9259
Mass of ripper (less top bracket)	kg	829	1550	2200	2800	3600
	lb	1827	3417	4850	6173	7936
Hydraulic working pressure	MPa	15-18	16-19	18-20	22-24	22 - 24
	psi	2175-2610	2320-2755	2610-2900	3190-3480	3190-3480
Hydraulic return pressure	MPa	0.6	0.6	0.6	0.6	0.6
	psi	87	87	87	87	87
Hydraulic oil flow	L/min	60	120	160	180	200
	gal/min	16	32	42	48	53
Case drain maximum pressure	MPa	0.4	0.4	0.4	0.4	0.4
	psi	58	58	58	58	58
Frequency	1/min	1500	1400	1400	1300	1200
	bpm	1500	1400	1400	1300	1200
Dimensions L x W x H	cm	168x45x90	220x66x130	240x78x175	280x85x175	310x90x184
	inch	66x18x36	87x26x51	95x31x69	110x34x69	122x36x73
Dimension A	cm	102	140	165	179.1	200
	inch	40	55	65	70.5	79
Dimension B	cm	76	105	130	139.1	155
	inch	30	42	51	55	61
Accumulator pressure	MPa	0.6	0.5	0.5	0.5	0.5
	psi	87	72.5	72.5	72.5	72.5

Item	Model	XR 50	XR 60	XR 80	XR 120-3M	XR 120-4M
Hydraulic excavator	tonnes	42-55	55-70	70-100	100-150	100-150
	lb	92594-121254	121254-154323	154323-220462	220462-330693	220462-330693
Mass of ripper (incl. top bracket)	kg	5600	7000	10500	13000	13000
	lb	12345	15432	23148	28660	28660
Mass of ripper (less top bracket)	kg	5000	5700	8700	11000	11000
	lb	11023	12566	19180	24250	24250
Hydraulic working pressure	MPa	26 - 28	26 - 28	30 - 32	30 - 32	22 - 24
	psi	3771-4061	3771-4061	4351-4641	4351-4641	3190-3480
Hydraulic return pressure	MPa	0.6	0.6	0.6	0.6	0.6
	psi	87	87	87	87	87
Hydraulic oil flow	L/min	250	280	380	500	600
	gal/min	66	74	100	132	158
Case drain maximum pressure	MPa	0.4	0.4	0.4	0.4	0.4
	psi	58	58	58	58	58
Frequency	1/min	1000	1000	1000	1000	1000
	bpm	1000	1000	1000	1000	1000
Dimensions L x W x H	cm	320x90x190	345x110x217	380x132x230	400x132x282	400x132x282
	inch	126x36x75	136x43x86	150x52x91	158x52x112	158x52x112
Dimension A	cm	210	226	240	243	243
	inch	83	89	95	96	96
Dimension B	cm	165	176	180	180	180
	inch	65	69	71	71	71
Accumulator pressure	MPa	0.4	0.25	0.6	0.6	0.6
	psi	58	36.26	87	87	87



# A full range for hydraulic excavators from 7 to 150 tonnes



- The **XR10** is suitable for demolition work where noise is an issue. Also a perfect solution for excavation, trenching, or recycling plants.
- The **XR15** is perfect in excavation and demolition in urban areas. Also ideal for trenching, recycling plants, and it works well underwater or in mud.
- The **XR20** turns your medium-size excavator into a high performance machine. Use it in excavation and demolition, as well as trenching, recycling, and working in permafrost.
- The **XR30** is one of the most popular models and is indispensable for excavation and demolition. Its quiet operation and high performance makes it the perfect tool for all types of applications.
- The **XR40** is the champion of the work site. Excellent results are achieved in quarry work with production volumes up to **120 m<sup>3</sup>** per hour, and it is unrivaled when it comes to trenching in many types of material.
- The **XR50** is specially designed for high-volume production in quarries and infrastructure jobs. Production volumes reach over **150 m<sup>3</sup>** per hour in limestone and other types of fractured rock. Also ideal for trenching and recycling applications.
- The **XR60** is designed for high-volume production in quarries and infrastructure work and processes in excess of **175 m<sup>3</sup>** per hour. Normally used in areas where drilling and blasting with explosives is not permitted for safety or environmental reasons. Also suitable for demolition, mining, and many other applications.
- The **XR80** meets or exceeds conventional equipment for high production in quarries and infrastructure projects where drilling and blasting are no longer allowed or are simply more expensive. It can achieve production volumes of more than **200 m<sup>3</sup>** per hour in fractured rock types. Very suitable for marine excavation in large dredging projects.
- The **XR120** is our biggest Series Production model. It is currently the largest serial attachment manufactured worldwide for quarrying. Production volumes up to **250 m<sup>3</sup>** per hour can be achieved. Ideal for mining, the XR120 brings great value and versatility to large tonnage excavators. Very appropriate for extracting marine work in dredging projects with adverse conditions.

# Xcentric Ripper Benefits

- ✓ **3 to 5 times higher production**
- ✓ **Minimum noise levels**
- ✓ **Minimum maintenance**
- ✓ **No daily lubrication required**
- ✓ **Minimum wear parts consumption**
- ✓ **Long life components and materials**
- ✓ **Less fuel consumption per produced m3/ton**
- ✓ **Less emission per produced m3/ton**
- ✓ **Environmental protection (Bio Lubricants)**
- ✓ **Economical alternative for “Drilling and Blasting”**
- ✓ **Marine/underwater operation**
- ✓ **Easy operation**
- ✓ **Increased operators comfort**

## How it started...

Grado Cero Group has manufacturing plants for the production of heavy duty excavator buckets and patented Go Max quick couplers. At the same time, one of their divisions was completing large rock excavation and trenching projects in the North of Spain. Thanks to this unique situation, they were able to invent and develop a completely new attachment to execute these difficult projects much faster and more efficiently. In the beginning of 2009, the initial prototypes started to work for the first practical tests in all kinds of different rock conditions. From that moment on, intensive testing in all types of rock has resulted in a 100% reliable, efficient, and maintenance-free attachment: the Xcentric® Ripper.

Economical and financial demands in the market are always pushing for increased performance and production output in rock excavation and demolition. At the same time, users are asking for lower maintenance costs, less down time and better warranty conditions.

In 2009, Grado Cero developed a revolutionary attachment to do excavation and demolition in less time, for lower cost and with minimum noise. The Xcentric® Ripper was developed with a patented “Impact Energy Accumulation Technology”, which makes it more productive than any Hydraulic hammer available on the market in 80% of job applications.

A 2 to 5 times higher production rate can be achieved in 70% of all job applications compared to a traditional hydraulic hammer. The Xcentric® Ripper's closed energy chamber cannot be influenced or damaged from the outside by dust, water, or dirt. This means that it works well in the most severe conditions in tunnels, foundations, muddy, and wet conditions.

The Xcentric Ripper even works in all kinds of underwater applications, for example, in harbours, canals, and open sea. Underwater excavation can be done without making any expensive or complex preparations. This is where and why the Xcentric® Ripper drastically saves expensive maintenance and repair costs that normally appear in such working conditions.



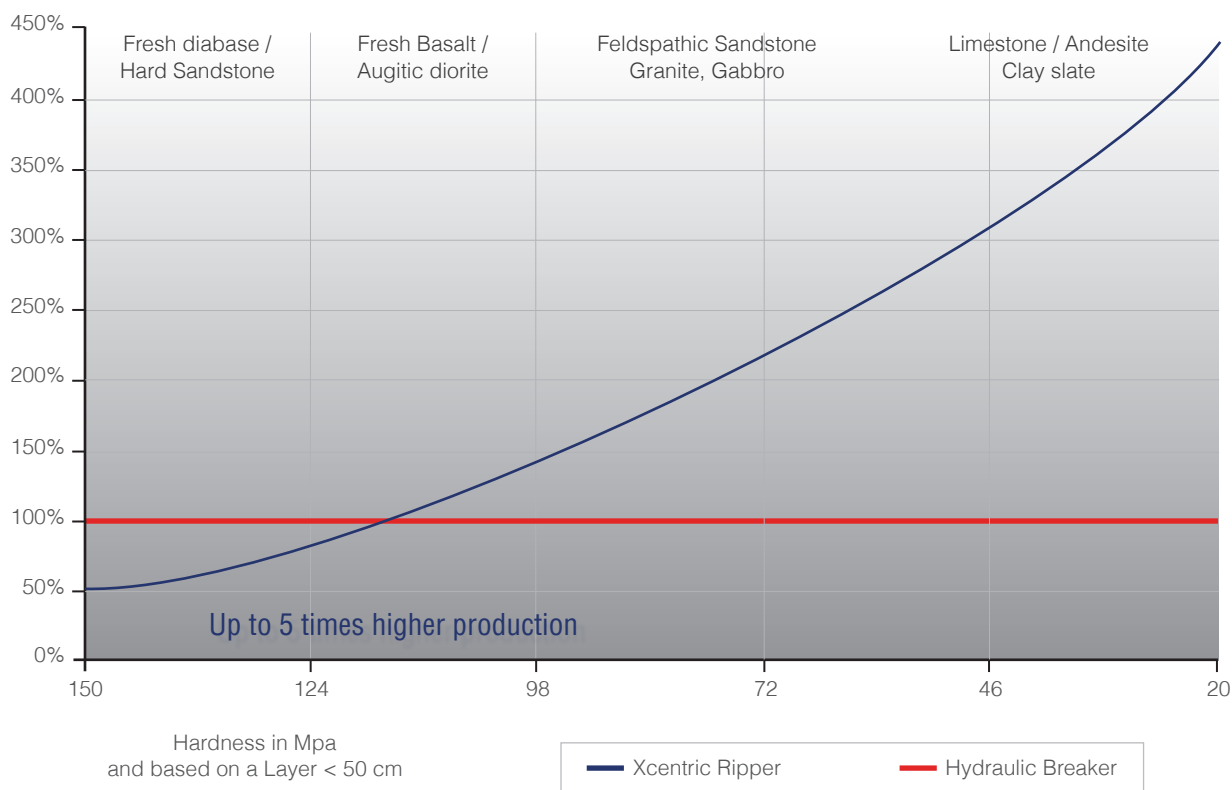


## Comparison with Hydraulic Breaker

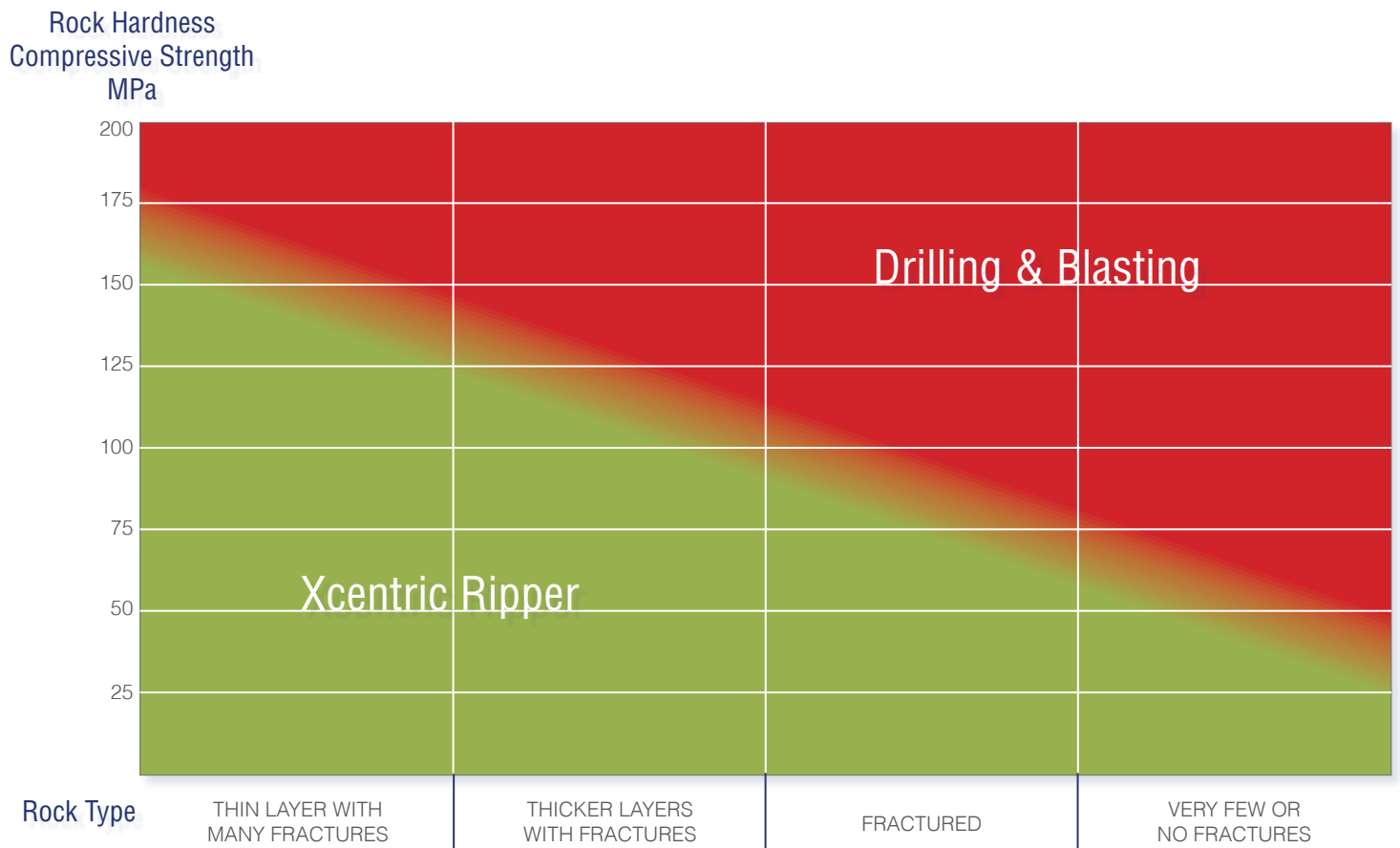
The Xcentric® Ripper widely exceeds the hydraulic hammer production in 80% of job applications. In up to 70% of the job applications, a 2 to 5 times higher production can be achieved.

Available in sizes larger than any current range of hammers. Giant units can also be provided.

## Comparison chart



# Feasibility Xcentric Ripper in Rock



## Alternative for “Drilling and Blasting”

In quarries with a limited volume of production or where drilling and blasting is no longer permitted for environmental or safety reasons, the Xcentric Ripper is the only real way to get reasonable production costs.



# After Sales Service and Training

Fast delivery of parts can be critical to be able to complete a tough excavation or demolition job in time. To make troubleshooting easier, we have user friendly and detailed operation manuals for end users. Customized spare parts packages for your new Xcentric Ripper can be assembled at the user's request. Our distributors continuously participate in comprehensive training programs to be able to give the best possible service to customers all over the world.

It's easy to start working with the Xcentric Ripper, but experience and practice will make a big difference in production rates. Find out how to get the best out of your Xcentric Ripper, how to get the job done as fast as possible, and how to handle and maintain your investment. Get in touch with your nearest Xcentric Ripper dealer or contact us directly for more information.

OFFICIAL DEALER

QUALIFIED SERVICE

QUALIFIED USER



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[www.xcentricripper.com](http://www.xcentricripper.com)

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