

# KOMATSU



Attachments

## **Xcentric® Ripper**

For hydraulic excavators  
from 12 tonnes up to 150 tonnes

# A Revolution In Rock Excavation

The design of the Komatsu Xcentric® Ripper is based on the most advanced technologies for excavating and demolition. It works perfectly with the latest machines, meets the highest industry standards and offers an outstanding performance – while making your work more efficient.

Built of wear-resistant steel, the Xcentric® Ripper is practically maintenance free and less noisy than other excavation equipment. It can be used underwater without risk of damage and can be adapted to countless work sites and special applications. Thanks to its simple design maintenance costs and downtimes are ignorable.

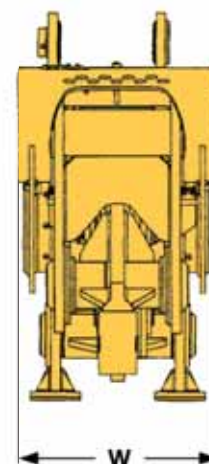
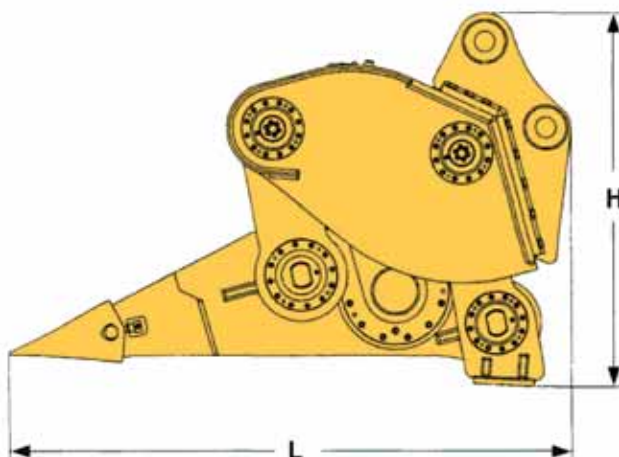


# Standard Specifications

MODEL		JGXR 10	JGXR 15	JGXR 20
Ripper weight (incl. top bracket)	kg	944	1.700	2.676
Ripper weight (excl. top bracket)	kg	825	1.503	2.289
Hydraulic working pressure	MPa	15 - 18	16 - 19	18 - 20
Hydraulic oil flow	l/min	60	120	160
Hydraulic return pressure	MPa	1,0	1,0	1,0
Case drain maximum pressure	MPa	-	0,4	0,4
Frequency	bpm	1.400 - 1.500	1.300 - 1.400	1.300 - 1.400
Dimensions (L x W x H)	mm	1.602 x 497 x 1.265	2.058 x 740 x 1.430	2.249 x 830 x 1.725
Excavator model (depends on work equipment)		PC120 - 138	PC160 - 180	PC200 - 270

MODEL		JGXR 30	JGXR40	JGXR 50
Ripper weight (incl. top bracket)	kg	3.439	4.276	5.588
Ripper weight (excl. top bracket)	kg	2.955	3.711	4.979
Hydraulic working pressure	MPa	22 - 24	22 - 24	26 - 28
Hydraulic oil flow	l/min	180	200	250
Hydraulic return pressure	MPa	1,0	1,0	1,0
Case drain maximum pressure	MPa	0,4	0,4	0,4
Frequency	bpm	1.200 - 1.300	1.100 - 1.200	900 - 1.000
Dimensions (L x W x H)	mm	2.732 x 934 x 1.798	2.886 x 1.020 x 1.846	2.951 x 1.121 x 1.991
Excavator model (depends on work equipment)		PC300 - 340	PC350 - 400	PC450 - 490

MODEL		JGXR 60	JGXR 80	JGXR120
Ripper weight (incl. top bracket)	kg	7.370	10.800	13.377
Ripper weight (excl. top bracket)	kg	6.252	8.992	11.484
Hydraulic working pressure	MPa	26 - 28	30 - 32	22 - 24
Hydraulic oil flow	l/min	280	380	430
Hydraulic return pressure	MPa	1,0	1,0	1,0
Case drain maximum pressure	MPa	0,4	0,4	0,4
Frequency	bpm	900 - 1.000	900 - 1.000	900 - 1.000
Dimensions (L x W x H)	mm	3.372 x 1.224 x 2.153	3.609 x 1.464 x 2.647	3.692 x 1.464 x 2.757
Excavator model (depends on work equipment)		PC600 - 800	PC800SE - 850SE	PC1250



# A Full Range

A full range for hydraulic excavators from 12 tonnes up to 150 tonnes



JGXR 10

JGXR 15

JGXR 20

JGXR 30

JGXR 40

JGXR 50

JGXR 60

JGXR 80

JGXR 120

**JGXR10** – A true asset on demolition job sites, where high noise levels can be an issue. It's also a perfect solution for excavating, trenching and for recycling plants.

**JGXR15** – Ideal for excavation and demolition sites located in urban areas. Also for trenching, recycling plants, and working underwater or in mud.

**JGXR20** – Turns a medium size excavator into a high performance machine for excavation and demolition. Also ideal for trenching, recycling and working in permafrost.

**JGXR30** – Perfect for excavation and demolition. Its low noise level and high performance make it a market leader. The perfect tool for all types of applications.

**JGXR40** – A protagonist on the work site. It excels in quarrying jobs, with production volumes up to 120 m<sup>3</sup> per hour, and is unrivalled for trenching.

**JGXR50** – Specially designed for high-volume production in quarries and infrastructure works. Production volumes can reach over 150 m<sup>3</sup> per hour when working in limestone and other types of fractured rock. Also for trenching and recycling.

**JGXR60** – Designed for high-volume production in quarries and infrastructure works, with volumes of more than 175 m<sup>3</sup> per hour. Normally used in areas where drilling and blasting with explosives are not permitted for safety or environmental reasons. Also suitable for demolition or mining.

**JGXR80** – Outperforms conventional equipment used for high production in quarries and infrastructure projects where drilling and blasting are no longer allowed – or are just too 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.

**JGXR120** – Our biggest “Series Production” model, and currently the largest serial attachment manufactured worldwide for quarrying, with production volumes of up to 250 m<sup>3</sup> per hour. Ideal for mining, which brings great value and versatility to large tonnage excavators. Also efficient in dredging projects, for marine excavation under adverse conditions.

# Benefits and Applications

## Benefits

- Up to 5 times higher production
- Low noise level
- Minimum maintenance
- Easy operation
- Increased operator comfort
- No daily lubrication
- Fewer parts, less wear
- Long life components
- Low fuel consumption
- Less emissions
- Economical alternative for “Drilling and Blasting”
- Underwater work / Special applications



## Applications

The Komatsu Xcentric® Ripper's closed energy chamber is completely protected from dust, water, dirt and other external agents. It can perform problem-free under the most severe conditions, in tunnels, foundations, and on muddy or wet jobsites.

Underwater work in harbours, canals or open sea can be achieved with no special and expensive preparations. This is where the Xcentric® Ripper cuts down so drastically on high maintenance and repair costs usually associated with these applications.

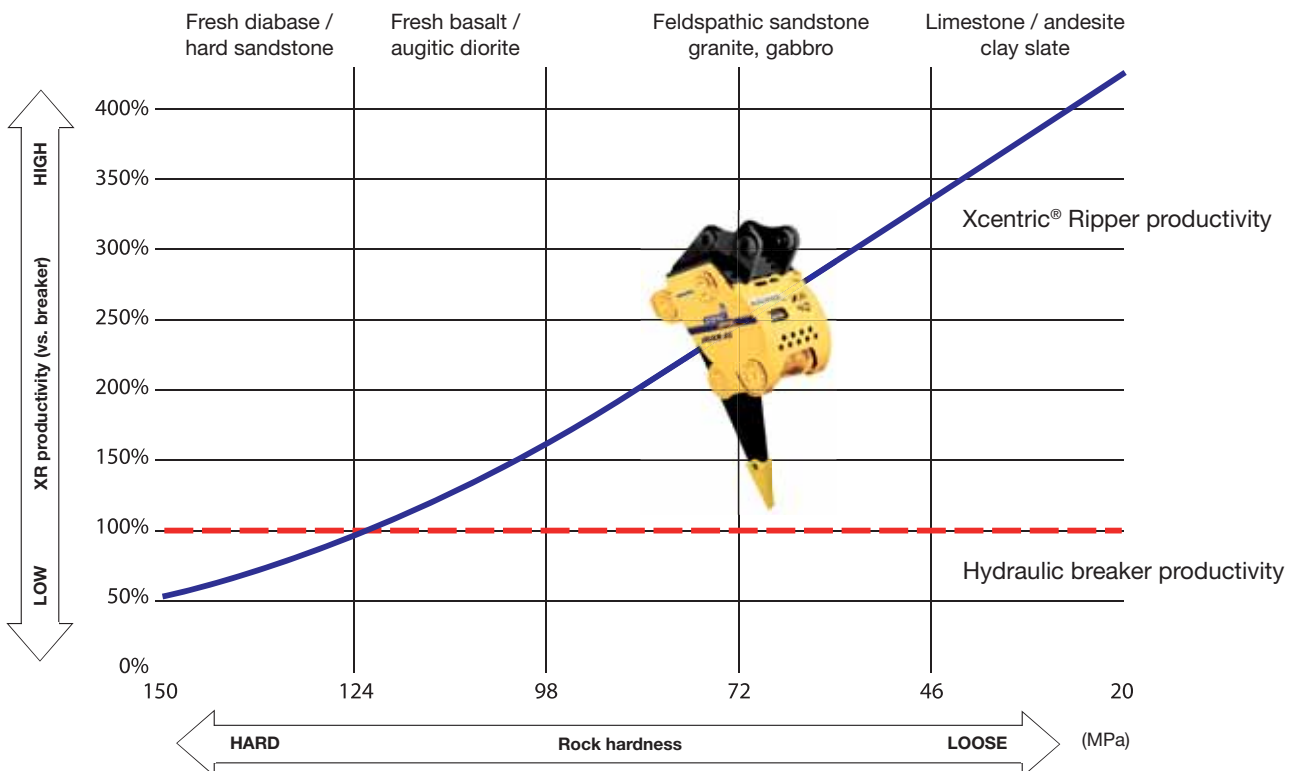


# Comparison with Hydraulic Breaker

The Xcentric® Ripper widely exceeds the output of a hydraulic hammer in 80% of job applications, with 5 times higher production levels in most of these. It is available in sizes larger than any current range of hammers. Giant units can also be supplied on demand.



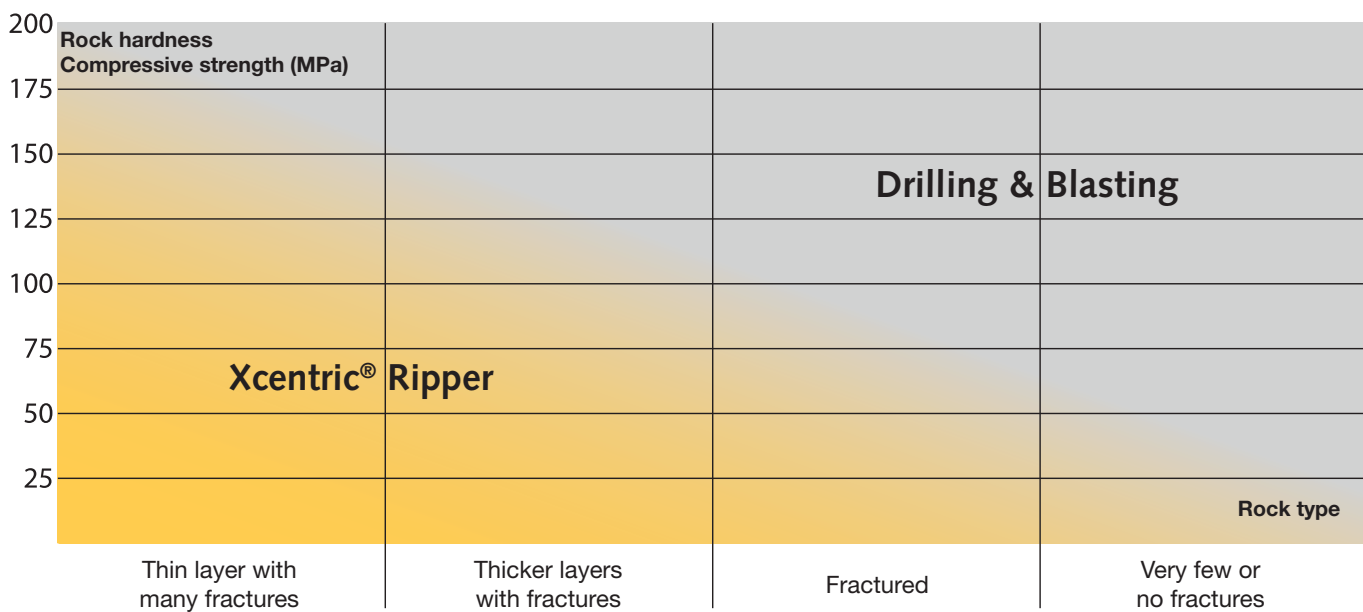
Productivity comparison chart



The productivity is subject to breaking each type of rock with a layer < 50 cm.



## Practicality of the Xcentric® Ripper in rock



## Alternative for “Drilling and Blasting”

In quarries with a limited volume of production, or where drilling and blasting are no longer permitted for environmental or safety reasons, the Xcentric® Ripper is the most economical alternative to high production costs.



Attachments

# Xcentric® Ripper



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