



# Vibrating Ripper

2025

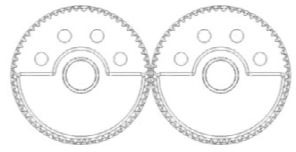
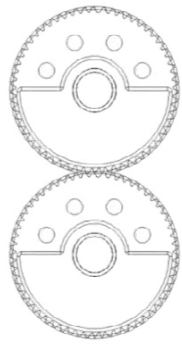
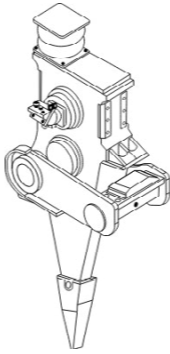
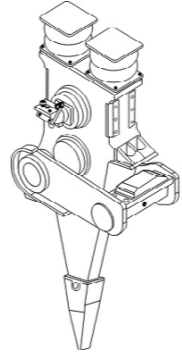
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\*Pictured model: 20-36T Vibrating Ripper

## Specifications

Tonnage	Frequency (BPM)	Setting Pressure		Return Pressure		Flow Rate (LPM)	Shank Height (mm)	Boot Height (mm)
18 - 26	2500 - 3000	250 BAR	3626 PSI	6 BAR	87 PSI	170 - 200	1102	485
20 - 36	2500 - 2800	250 BAR	3626 PSI	6 BAR	87 PSI	210 - 230	1200	485
38 - 46	1700 - 1800	280 BAR	4061 PSI	6 BAR	87 PSI	250 - 260	1245	585
48 - 65	1600 - 1700	280 BAR	4061 PSI	6 BAR	87 PSI	280 - 300	1342	585
65 - 85	1400 - 1500	280 BAR	4061 PSI	6 BAR	87 PSI	380 - 420	1400	585

Excentric	Bullstern	Market Comparison
 <p>HORIZONTAL GEAR ARRANGED</p>	 <p>VERTICAL GEAR ARRANGED</p>	<p><b>Pros</b></p> <p>Delivers eccentric moment in alignment with the striking position.</p> <ul style="list-style-type: none"> <li>+ Fewer restrictions on working postures when horizontal breaking due to symmetrical structure.</li> <li>+ The centrifugal force in the vertical stack is superimposed in the vertical plane.</li> </ul>
 <p>SINGLE ASEISMIC AIRBAG</p>	 <p>DUAL ASEISMIC AIRBAGS</p>	<p><b>Pros</b></p> <p>Delivers eccentric moment in alignment with the striking position.</p> <ul style="list-style-type: none"> <li>+ Fewer restrictions on working postures when horizontal breaking due to symmetrical structure.</li> <li>+ The centrifugal force in the vertical stack is superimposed in the vertical plane.</li> </ul>

# Vibrating Ripper

AVAILABLE FOR 18T-85T

Aussie Buckets understands the increasing need for higher productivity in rock excavation and demolition with lower maintenance costs. In 1999, research into alternating stress waves by ThyssenKrupp led to the development of the Vibrating Ripper by manufacturers in Spain, Korea, and China. Capable of delivering 2 to 5 times more production in 70% of applications, this tool increases productivity by 80% compared to hydraulic breakers, making it the superior choice for challenging rock excavation projects. The Vibrating Ripper, equipped with market-leading rock excavation and demolition technology, sets industry standards for performance and efficiency.

Using advanced vibration technology, it penetrates soil with minimal resistance, making it ideal for mining and demolition. It boosts productivity by 3-5 times over conventional rock breakers and is the preferred solution where drilling and blasting are non-viable.

## Benefits

The internal components of the Vibrating Ripper are fully protected from dust and dirt, allowing it to operate efficiently in even the harshest conditions, including tunnels, quarries, harbours, trenching, and mines. Its robust design enables seamless underwater applications without the need for complex or costly preparations, significantly reducing maintenance and repair expenses typically incurred in such environments.

- + Minimum maintenance
- + Minimum noise levels
- + Minimum wear parts consumption

- + Long-life components and materials
- + Less emissions per produced m<sup>3</sup>/tonne
- + Less fuel consumption per produced m<sup>3</sup>/tonne
- + Environmental protection (Bio Lubricants)
- + Economical alternative to "Drilling and Blasting"
- + Marine/underwater operation
- + Easy operation increased operator comfort
- + No daily lubrication required



**Dual Aseismic Airbags**

Significant reduction in energy transfer to the excavator, translating into several benefits, including enhanced operator comfort, increased excavator longevity, and improved overall performance of the attachment.

**Imported Axial Piston Motors**

German Rexroth or Swedish Sunfab motors provide higher maximum pressure and in turn high productivity.

**Service Access Panel**

Providing easy access for on-site serviceability of housing oil annually.

**Gap-Adjust Damper**

Easy access to service the gap adjust damper onsite as required.

**Korean-Made Gear Box**

The vertical gear stack increases the torque and kinetic energy, enabling the ripper to generate more force and momentum.

**High-Tensile Strength Wear Bars**

Reduces the wear of the body of the attachment and key components when working on rock faces.

**Additional Shank Types**

Moil-type shank or Ripper tine with replaceable tooth available. Bolt-on brackets for onsite substitution.

## Site Suitability

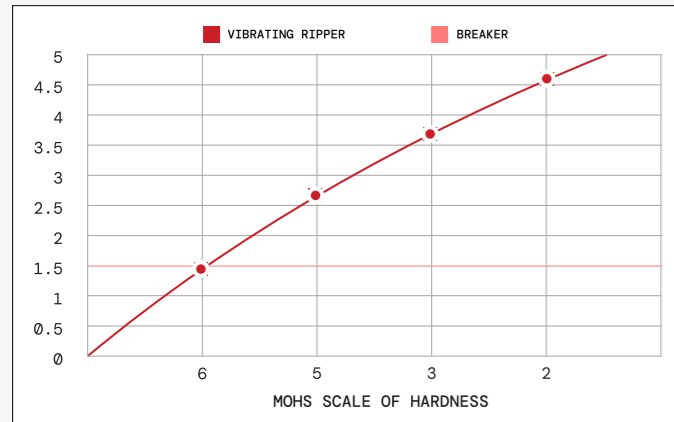
### The Common Rock Mohs' Hardness

Mohs' Hardness	Standard Mineral
1-3	Talc, Gypsum
3-4	Red Sand Rock, Flourite, Marble
5-6	Apatite, Syenite
7-8	Quartz, Topaz
9-10	Corundum, Diamond

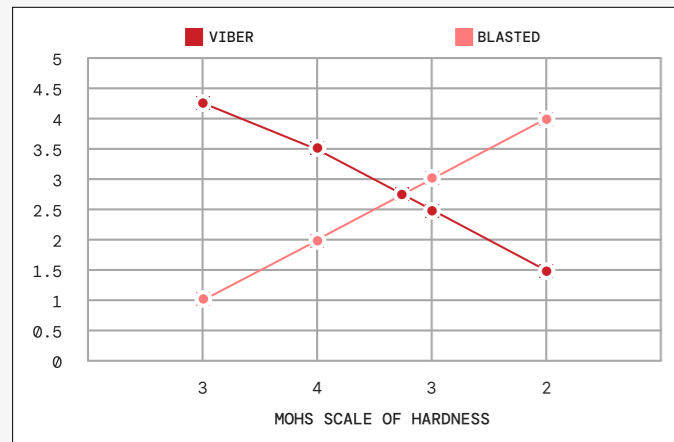
Table 1. Mohs' Hardness Reference Table

Piston breakers are typically effective in handling rocks with hardness levels between 3 and 8. However, these rock types are well within the capability range of the Vibrating Ripper. When operating on rocks with a hardness level below 5 (tensile strength under 100 MPa), the Vibrating Ripper demonstrates rapid fracturing capabilities. As rock hardness increases, its efficiency gradually decreases. The optimal breaking depth per pass is approximately 50 to 70 cm for maximum performance.

### FEASIBILITY ASSESSMENT



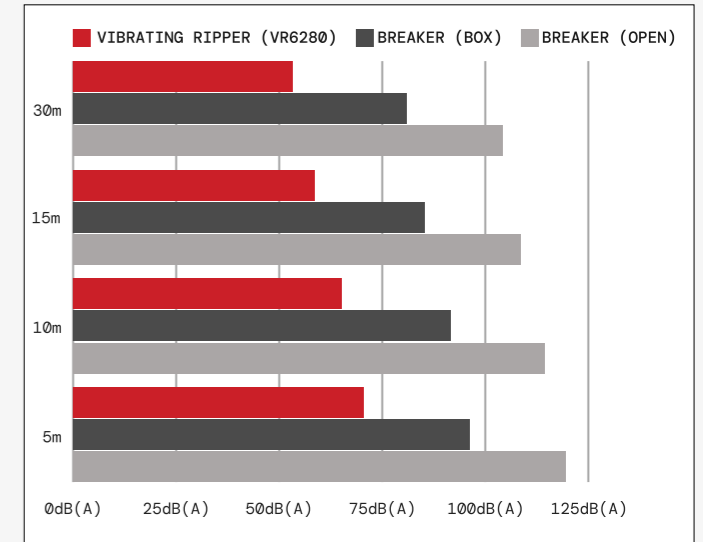
Our Vibrating Ripper attachment sets a new standard in excavation, delivering exceptional performance in softer materials such as sandstone and basalt, far surpassing the capabilities of traditional rock breakers. Extensive testing has demonstrated that the Vibrating Ripper can achieve up to five times the production output in the 25-50 MPa range compared to conventional methods.



### MINIMISE NOISE LEVELS

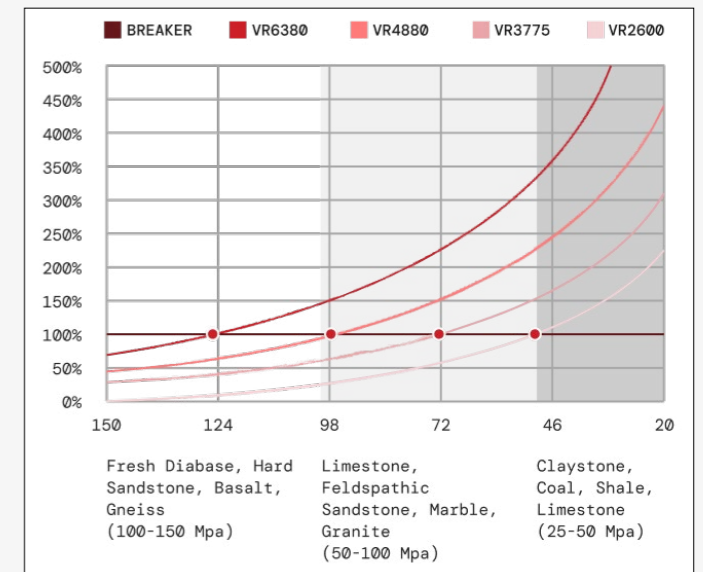
Field testing data demonstrates that the Vibrating Ripper attachment generates noise levels more than 50% lower than conventional rock breakers. This significant reduction not only minimises the risk of hearing damage and other occupational health hazards associated with prolonged exposure to high noise levels but also offers positive environmental benefits by reducing noise pollution in surrounding areas.

Additionally, the use of quieter machinery supports compliance with local regulations, reducing the risk of fines and other penalties, while contributing to a safer and more sustainable working environment.



### MAXIMISE PRODUCTION

At its core, the attachment features an advanced vibrating mechanism that breaks up the ground with minimal resistance, making it ideal for the most demanding excavation tasks. Compared to conventional rock breakers, the Vibrating Ripper delivers a 3-5 times increase in efficiency, with users reporting substantial improvements in productivity and hourly yield, as illustrated in the accompanying data. This increased efficiency translates directly into faster project completion times, a critical factor in the success of large-scale excavation projects. By optimising operational performance, businesses can complete projects more quickly and efficiently, gaining a competitive edge in their respective industries.



## **AUSSIE BUCKETS**

**SAY NO TO MARKUPS**

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