



Groundwork

LARGE ROCK SPLITTER



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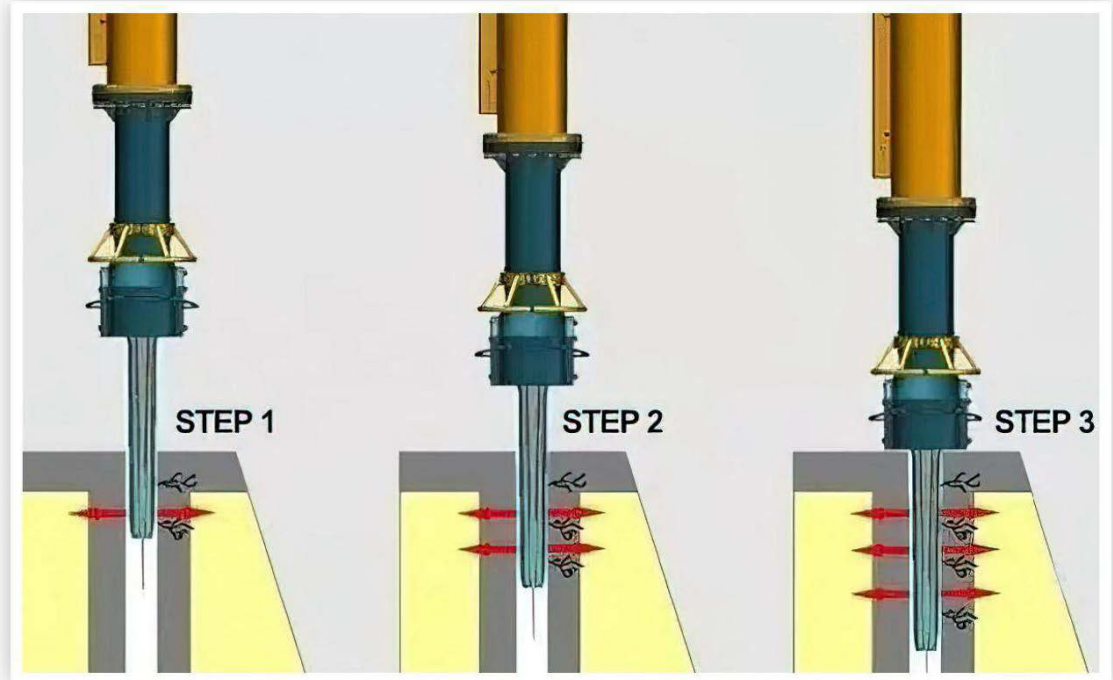
For hard rock excavation, explosives or excavator hydraulic breakers are often used. However, due to vibration and noise limitations or because the rock is too hard, the restrictions on explosive blasting are becoming more and more strict, and the use of excavator hydraulic breakers is not always feasible. Therefore, using a large rock splitter is the best alternative to efficiently excavating large volumes of hard rock without blasting. Large rock splitters can be mounted on conventional excavators for hard rock-breaking projects in a variety of environments. The most efficient, safe, and quiet mechanical method for excavating large volumes of rock is a large rock splitter.

As we all know, the core competitiveness of a large rock splitter is its wedge group. The wedge needs to have ultra-high strength, special toughness and pressure resistance, and a very low friction coefficient to meet the requirements of use. After years of technical research and practice, our company has successfully developed an ultra-highstrength wedge-shaped group, which has a very low friction coefficient, efficiently transmits strong splitting force, and is durable. It can be fully competent for rock-breaking operations of various hard rocks.



HOW IT WORKS

The working principle of a large rock splitter is based on two counter wedges inserted in a pre-drilled hole. A hydraulic cylinder pushes out a center wedge between the counter wedges to spread them apart and the rock is forced to crack. First, insert half of the total length of the wedge and operate the splitter to split. Then insert about $\frac{3}{4}$ of the total length of the wedge to split again. Finally, insert the total length of the wedge and split it to complete it.



- Enormous splitting force up to 3200 t
- Low dust and low vibration
- Nearly noise free
- Reduce rock breaking costs
- Higher rock breaking efficiency
- Ideal for large rock breaking projects
- Splitting direction can be set
- Sturdy and durable
- Easy to install



LARGE ROCK SPLITTER SPECIFICATIONS

MODEL	PISTON INNER DIAMETER	DRILL HOLE DIAMETER	MINIMUM DRILLED HOLE DEPTH	LENGTH WEDGE	SPLITTING FORCE THEORETICAL	SPLITTING FORCE EFFECTIVE	WEIGHT
	MM	MM	MM	MM	TON	TON	KG
RL-220	220	115	≥1500	960	2862	2400	825
RL-320	320	140	≥1500	960	3465	3200	1130



ADVANTAGES

SAFETY

Rock splitting is done without any explosives, pollution or noise, reducing the risk of flying rocks.

EFFICIENCY

Provides the highest possible output with large wedge diameters and very high splitting forces.

DURABILITY

The wedge is made of special steel to ensure the hardness and durability of the wedge. Ensure product reliability and durability.

APPLICABILITY

Since there are no flying rocks or any other danger, the splitting process can continue without any evacuation or unnecessary pauses.

ACCURACY

The direction of splitting and the size of the split rock can be determined in advance.

Provides greater accuracy than dynamite.

CASES

