

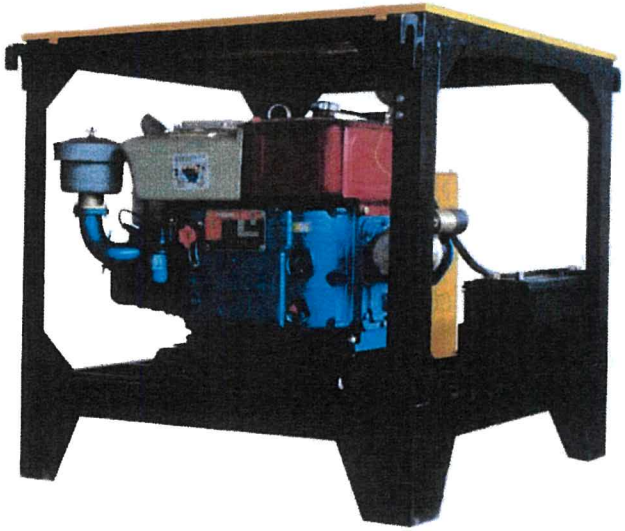
PLE-90 PLE-150

PLE-110 PLE-180

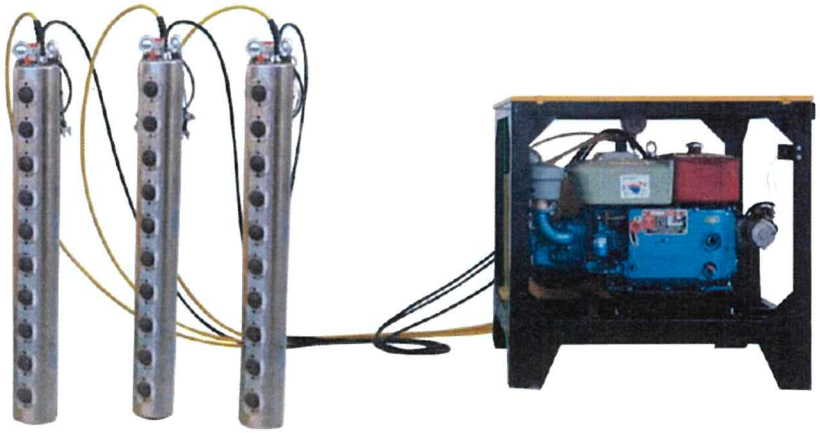
PLE-130 PLE-220

Piston Rock Splitter

Piston rock splitter is a new type of rock-breaking equipment. Its design is inspired by our common hydraulic jack. Using a piston rock splitter requires a larger hole diameter than a hand-held rock splitter (typically 90mm, 110mm, 130mm, 150mm, 180mm, or over 220mm). No vibration, no noise, and no flying stones during the working process. The effect is immediate, there is no need to wait, and the work can be repeated without interruption. In many large rock-breaking construction sites, such as road construction or building foundation sites, it is difficult for a handheld wedge rock splitter to meet a large number of rock removal requirements. So using a piston rock splitter is the best way. Piston rock splitters are more powerful and efficient than handheld wedge rock splitters. It is fully capable of all kinds of large-scale rock-breaking work.

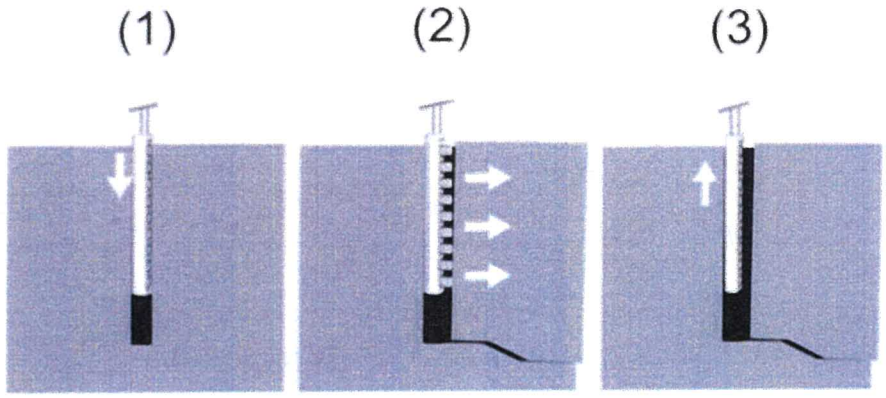






A complete piston rock splitter consists of three components:

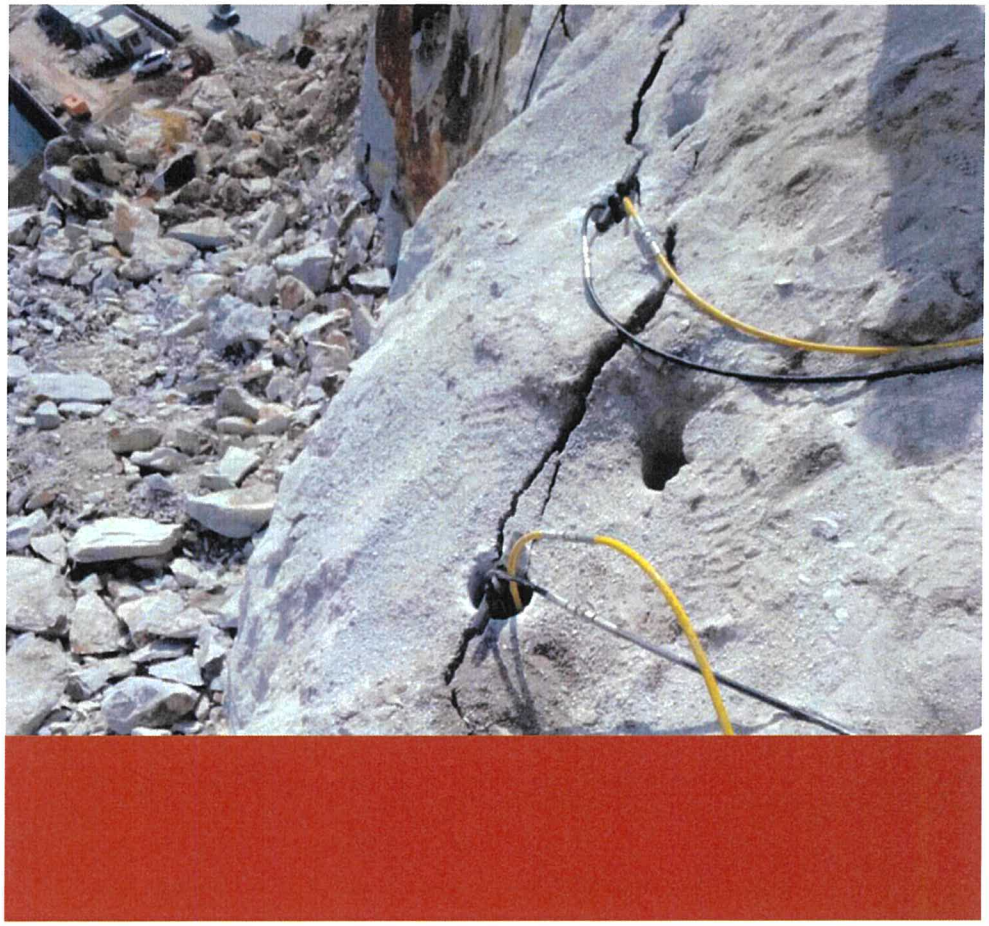
- **Piston splitters**
- **Hydraulic power unit**
- **Hydraulic hoses**



How does it work

First, drill a hole of suitable depth and diameter, then insert the piston splitting rod into the hole and align it to determine the direction of splitting. The ultra-high pressure oil output by the hydraulic power unit drives the piston of the piston splitting rod to generate a huge driving force, pushing the piston outward, and the pressure is instantly super high, reaching more than 100Mpa. The effective splitting force of up to several thousand tons destroys the structure of the rock from within.

- Huge splitting force up to several thousand tons
- Ideal for large rock breaking projects
- Higher rock breaking efficiency
- Reduce rock breaking costs
- Almost noise-free
- Low dust and low vibration
- Split direction can be set
- Ease of use
- Easy to transport

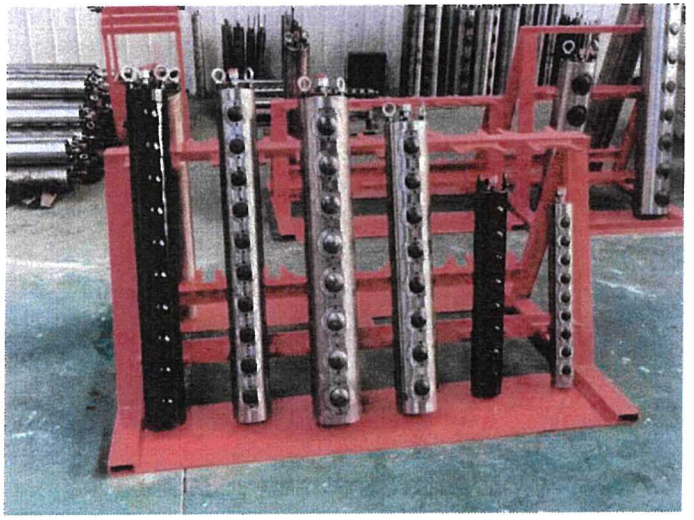


Model	Diameter	Length	Piston diameter	Piston max stroke	Drill hole diameter	Drill hole depth	Piston quantity	Splitting force theoretical	Splitting force effective	Weight	Supporting hydraulic power unit	
	(MM)	(MM)	(MM)	(MM)	(MM)	(M)	(PC)	(TON)	(TON)	(KG)	Electric (KW)	Diesel (HP)
PLE-90	φ88	650	φ50	18	90	1	9	481	450	34	4	8
PLE-110	φ110	710	φ60	25	120	1	8	686	650	48	4	8
PLE-130	φ130	1000	φ70	28	140	1 ~ 1.5	10	862	780	97	7.5	18
PLE-150	φ150	1000	φ75	36	160	1 ~ 1.5	8	936	850	118	7.5	18
PLE-180	φ180	1000	φ90	40	200	1 ~ 1.5	8	1020	920	166	7.5	18
PLE-200	φ200	1280	φ100	44	220	1.5 ~ 2	8	1287	1160	291	7.5	18

Piston Splitter Specifications

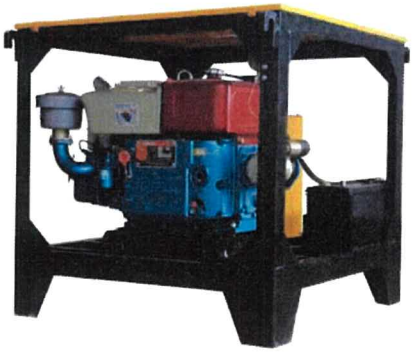






Engine type	Engine power	Fuel tank capacity	Working medium	Working pressure	Work flow	Configurable splitters number	Specifications	Weight
		(L)		(Mpa)	(L/min)		(MM)	(KG)
Electric type	4KW	30	46 or 68 anti-wear hydraulic oil	100 ~ 120	2 ~ 13	1 ~ 6	384*280*260	75
	7.5KW	100		100 ~ 120	4 ~ 16	1 ~ 6	1150*1050*980	135
Diesel type	8HP	40		100 ~ 120	2 ~ 13	1 ~ 6	1200*1170*800	120
	18HP	100		100 ~ 120	4 ~ 16	1 ~ 6	980*830*1250	345

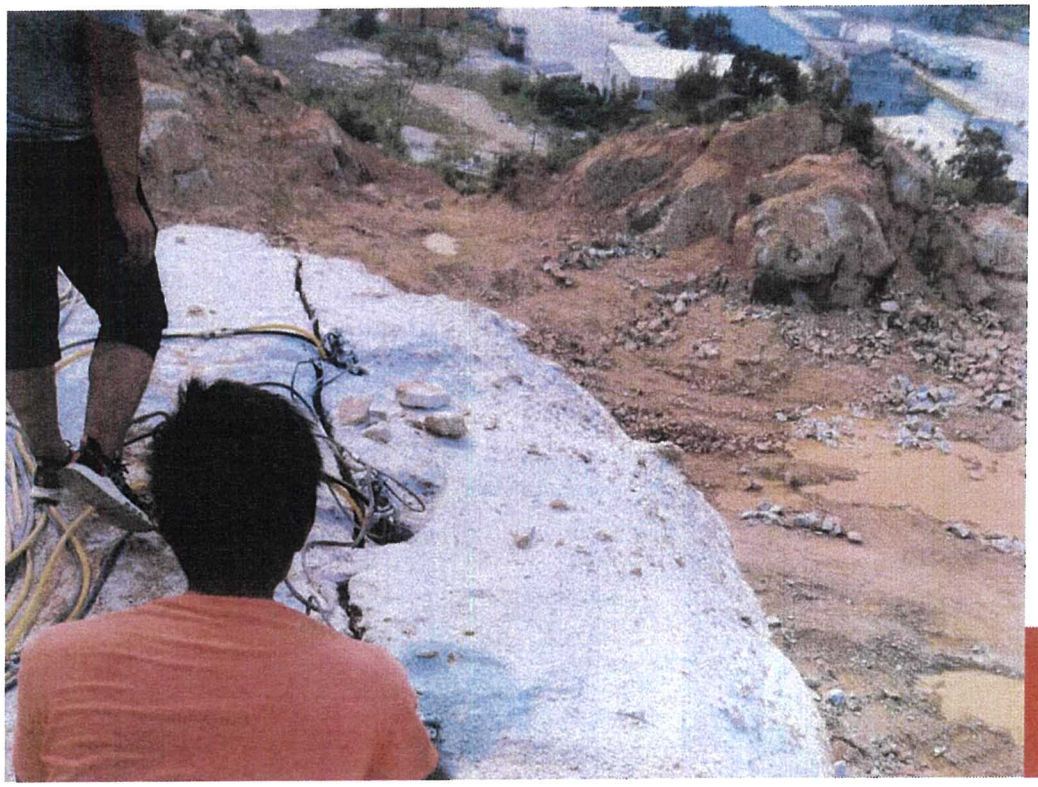
Hydraulic Power Unit Specifications







ADVANTAGES



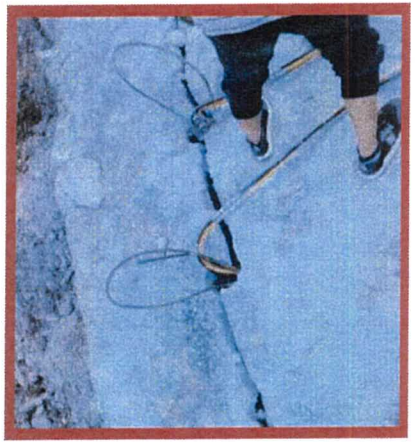
Safety

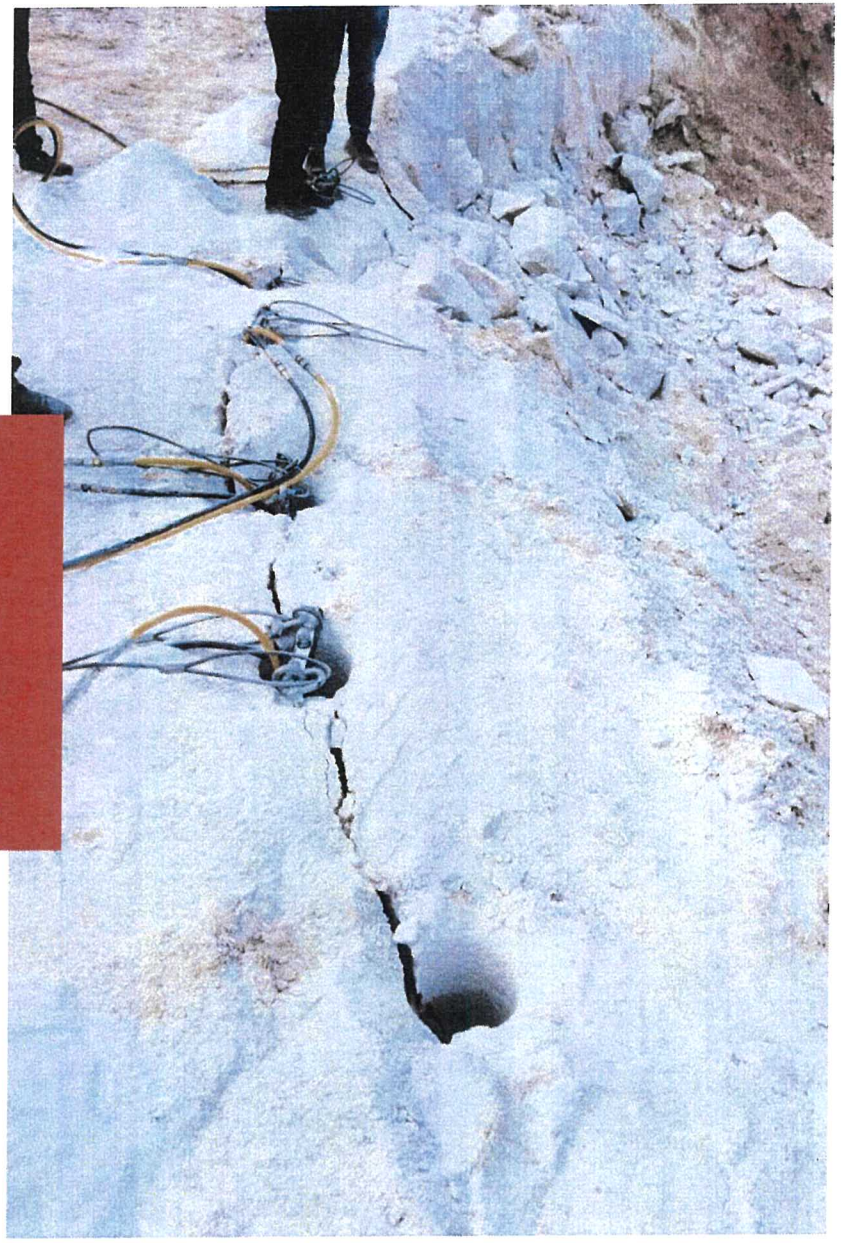
During the construction process, unlike blasting, impact demolition or rock drilling equipment, it will not cause any danger. No complicated safety precautions are required.

Economic efficiency



The splitting process can be completed within a few seconds, and it can run continuously without interruption (even in severe weather such as heavy rain, it can also run around the clock), with high efficiency and low operation and maintenance costs.





Applicability

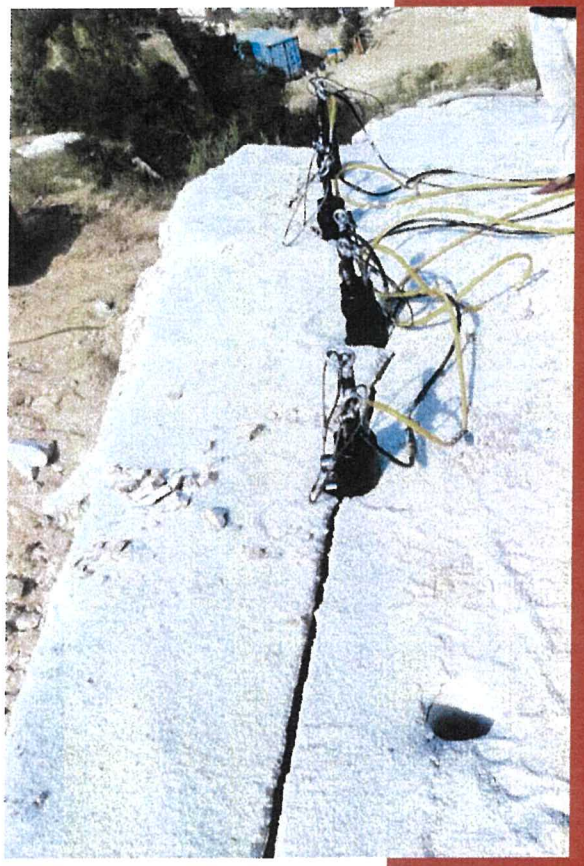
The humanized shape design and durable structure design ensure that its operation is simple and easy to learn, only two people are required to operate, easy maintenance, and long service life.

Environmental friendliness

There is no vibration, shock wave, noise, dust, flying debris, etc. during operation. The surrounding environment is not affected. Whether in densely populated areas or indoors, and close to precision equipment, it can operate without interference.







Accuracy

Unlike most traditional demolition schemes, due to the high splitting accuracy, the splitting direction, splitting shape and size can be accurately determined in advance.

Cases

