



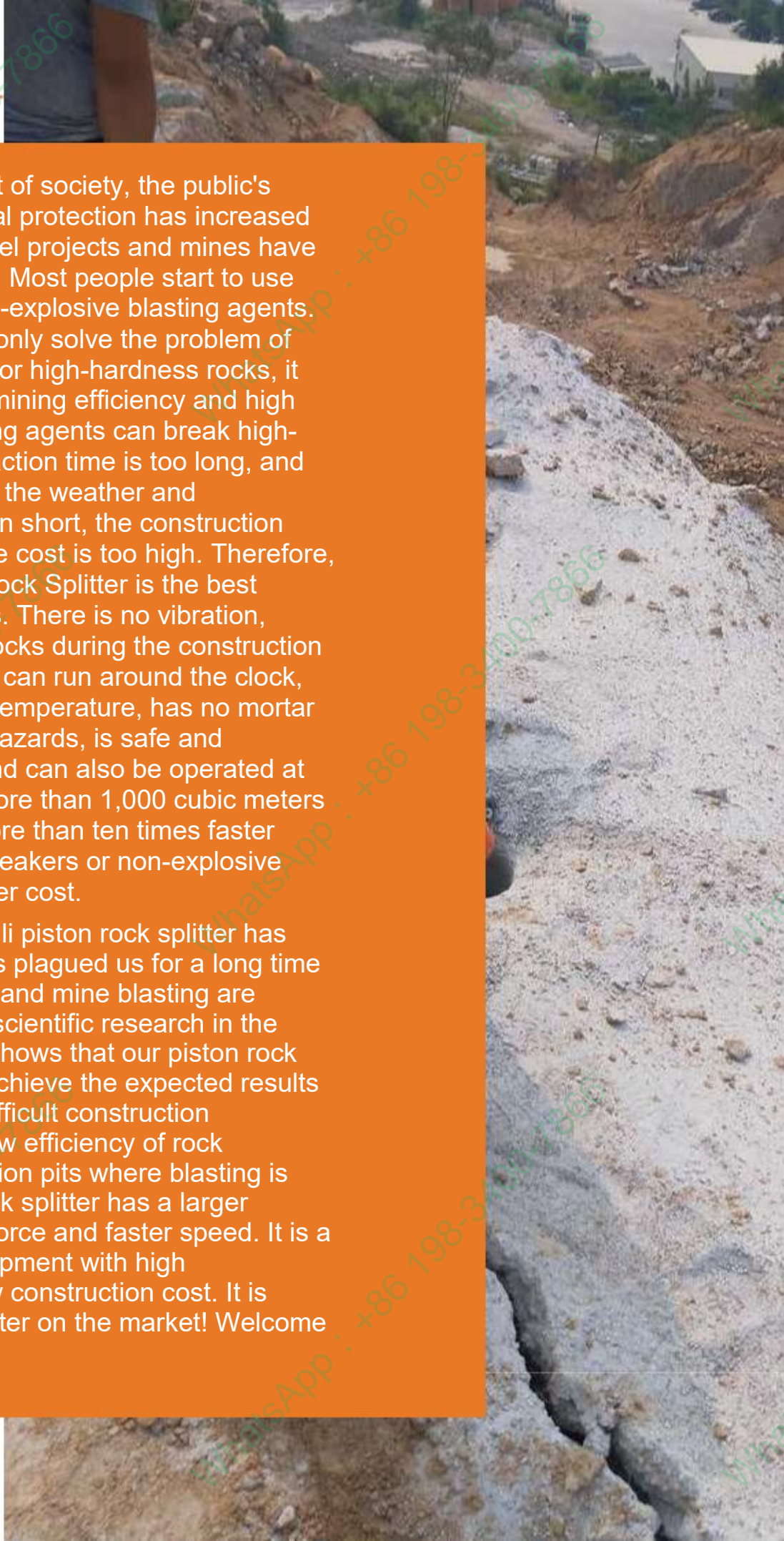
DINLI

Dingli Piston Rock Splitter

BRIEF INTRODUCTION

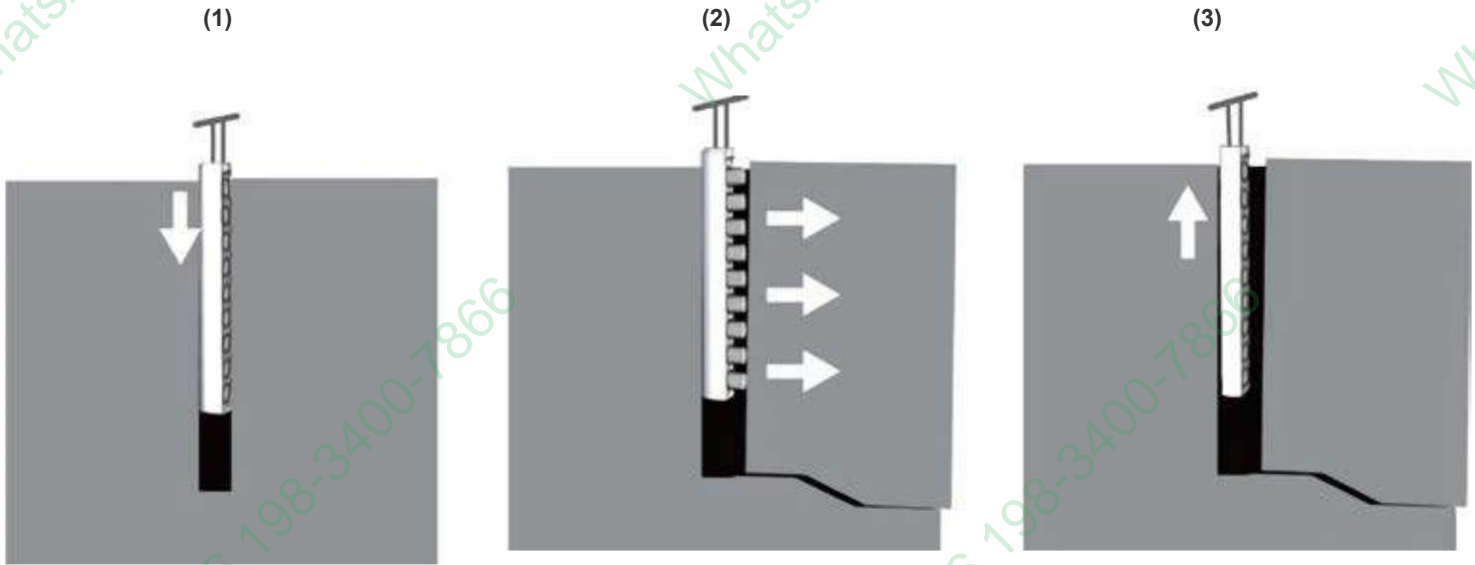
With the rapid development of society, the public's awareness of environmental protection has increased day by day, and many gravel projects and mines have been banned from blasting. Most people start to use hydraulic breakers and non-explosive blasting agents. The hydraulic breaker can only solve the problem of low-hardness rocks, while for high-hardness rocks, it faces the problems of low mining efficiency and high cost. Non-explosive blasting agents can break high-hardness rocks, but the reaction time is too long, and the effect is not good when the weather and temperature are not ideal. In short, the construction efficiency is too low and the cost is too high. Therefore, our product Dingli Piston Rock Splitter is the best solution for these situations. There is no vibration, shock wave, noise, flying rocks during the construction process, no need to wait, it can run around the clock, is not affected by rain and temperature, has no mortar eruption and strong alkali hazards, is safe and environmentally friendly, and can also be operated at night. It can easily crush more than 1,000 cubic meters of hard rock in one day, more than ten times faster than traditional hydraulic breakers or non-explosive blasting agents, and at lower cost.

The emergence of the Dingli piston rock splitter has solved the problem that has plagued us for a long time (rock crushing engineering and mine blasting are prohibited). Our long-term scientific research in the Chinese engineering field shows that our piston rock splitting machine can still achieve the expected results in the most complex and difficult construction environment such as the low efficiency of rock excavation in deep foundation pits where blasting is prohibited. Dingli piston rock splitter has a larger diameter, greater splitting force and faster speed. It is a hydraulic rock splitting equipment with high construction output and low construction cost. It is stronger than any rock splitter on the market! Welcome to verify and compare!



WORKING PRINCIPLE

Usually broken objects (such as concrete and rock) have high compressive strength, but low tensile strength. Dingli piston rock splitting machine takes advantage of its low tensile strength. Drill holes in the rock in advance during construction, put the splitter into the hole, and the hydraulic oil output by the hydraulic power unit is mechanically amplified by the booster, which drives the piston in the splitter to generate huge driving force and push the splitter. The piston in the middle stretches out, and the splitting force can reach thousands of tons in an instant. The hard rock can be easily split from the inside in about 2 minutes and can be split in a predetermined direction to achieve the purpose of expansion, crushing, and excavation.



COMPONENTS

Dingli piston rock splitter is mainly composed of a hydraulic power unit, 1-6 splitters and a set of high pressure and low pressure hydraulic tubing.



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.

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.

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.

Environmenta 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.



TECHNICAL SPECIFICATIONS

Diesel hydraulic power unit Electric hydraulic power unit

Power	15HP/11KW
Rated Pressure	100Mpa
Peak Pressure	150Mpa
Low-pressure flow	10L/min
High-pressure flow	4.5L/min
Operation Temp	-20℃ to 85℃
Oil Tank Volume	100L
Diesel Tank Volume	10L
Weight	315 kg
Dimensions	1100x1015x980mm



Power	7.5KW
Rated Pressure	100Mpa
Peak Pressure	150Mpa
Low-pressure flow	8L/min
High-pressure flow	3.8L/min
Operation Temp	-20℃~85℃
Oil Tank Volume	100L
Weight	185kg
Dimensions	950x830x1250mm



Piston Splitter

Model	Unit	DL-90	DL-110	DL-130	DL-150	DL-180	DL-220
Diameter	mm	φ85	φ105	φ125	φ145	φ175	φ215
Length	mm	640	720	750	780	1020	1120
Piston diameter	mm	50	60	70	80	100	110
Piston max stroke	mm	25	34	38	48	56	70
Drill hole diameter	mm	φ90	φ110	φ130	φ150	φ180	φ220
Drill hole depth	mm	≥1000	≥1000	≥1000	≥1000	≥1500	≥1500
Splitting force theoretical	ton	1580	2160	2550	3070	3680	4210
Splitting force effective	ton	≈1500	≈2000	≈2400	≈2900	≈3500	≈4100
Weight	kg	31	46	55	76	127	213



WORK PROCESS



1.Hole layout

2.Drilling

3.Put in the hole

4.Splitting

5.Breaking

CASE



ABOUT US



Dingli Group was established in 2000 and is an expert in the field of non-explosive blasting technology. It has been specialized in research and development and production of various technologically advanced rock breaking machinery, and is committed to providing safe and effective solutions for mines and construction projects where blasting is prohibited.

Our main products include piston rock splitter, hand-held hydraulic splitter, drilling and splitting integrated machine, carbon dioxide rock breaking system and related accessories. After 20 years of development in China, we have become China's leading rock-breaking machinery manufacturer. Our products have passed the tests of various domestic complex construction environments, and can solve various problems encountered in rock crushing construction for you.

We are proud of the quality of our customer service and ensure fast and on-time delivery to meet your urgent requirements. We are on standby to serve you at any time, and we promise to redouble our efforts to meet the current and future needs of customers.



CONTACT US

Contact person: AllenShen

Phone/Whatsapp: +8619834007866

Email: Allen@dlminingequipment.com

Website: <https://rockbreaking.com.cn>

Address: No. 1, Dongpu Road, Xiaodian District, Taiyuan City, Shanxi Province, PRC