Excavator Mounted

CORE DRILL

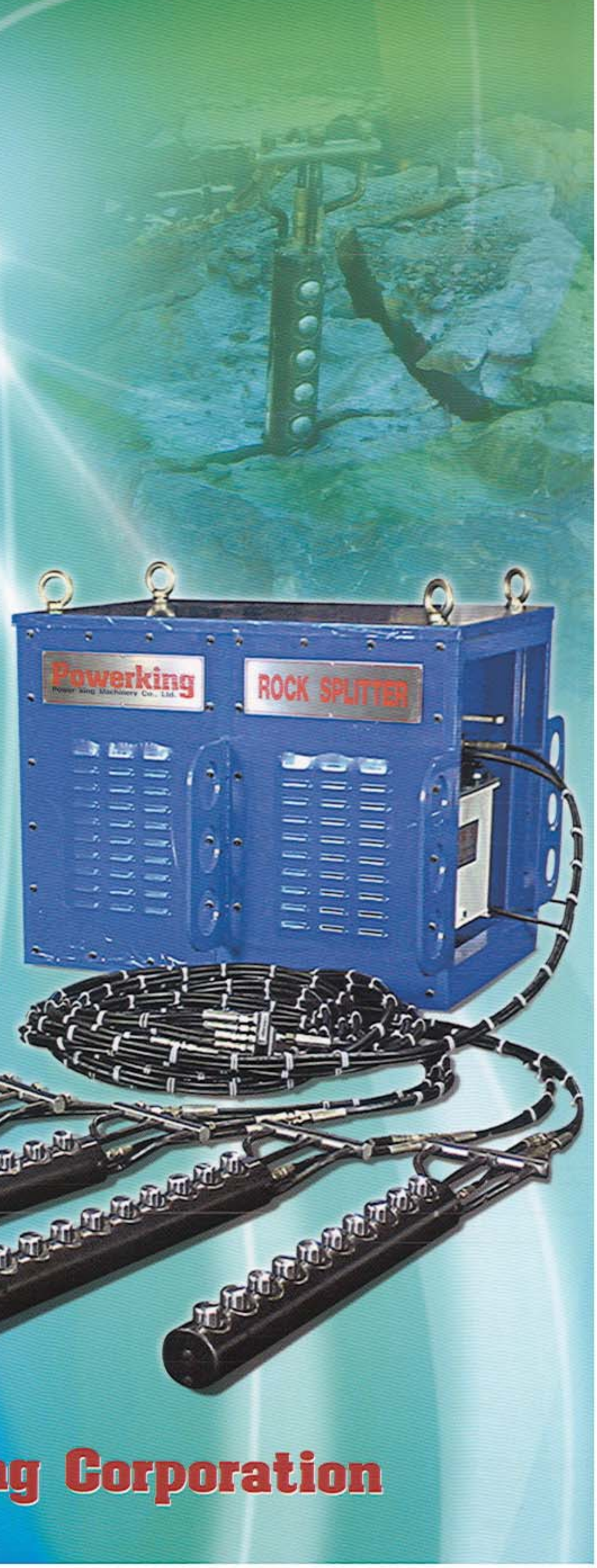
Low Noise Drilling

Electric-Hydraulic Powered

ROCK SPLITTER

Non-Explosive Breaking





Powerking Corporation

Working Pattern



Vertical Drilling



Horizontal Drilling

Hydraulic Core Drill Monunted on Excavator

Rock or Concrete Drilling job site with CORE DRILL



Boulder Drilling



Village Drilling



Rock Mountain breaking



Subway construction



Road construction-1



Road construction-2

ROCK SPLITTER(PRS)



Concrete Demolition



Rock Fractured

Technical Specifications of PRS-series Splitters

Model	Unit	Model of Power Cylinder							
		PC-80	PC-85	PC-95	PC-95C	PC-125	PC-150	PC-200A	PC-200B
Material		Rock, concrete	Rock, concrete	Hard Rock	Rock, concrete	Rock, concrete	Rock, concrete	Rock, concrete	Rock, concrete
Power Cylinder Weight	kg	27	33	37	33	20	28	45	48
Power Cylinder Length	mm	665	670	635	590	315	345	275	210
Power Cylinder Dia	mm	80	85	95	95	97	118	165	200
Piston Dia	mm	45	50	60	55	60	65	115	145
Piston Max, Stroke	mm	29	29	27	27	30	45	45	45
Piston Q'ty per Power Cylinder	ea	11	10	8	8	4	4	2	1
Force of each Power Cylinder	ton	193	216	249	209	125	146	229	125
Cylinder Q'ty per Rock splitter	ea	4	4	4	4	3	3	2	2
Working Oil Presure	kg/cm^2	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Rock Splitter force	ton	772	864	996	836	375	438	458	250
Core Drilling Diameter	mm	85	90	105	105	105	153	203	203

- Technical specifications are subject to change without prior notice due to quality improvement.
- Productivity is not dependent on the rock splitter but the drilling speed.
- The mentioned Productivity is just for reference.

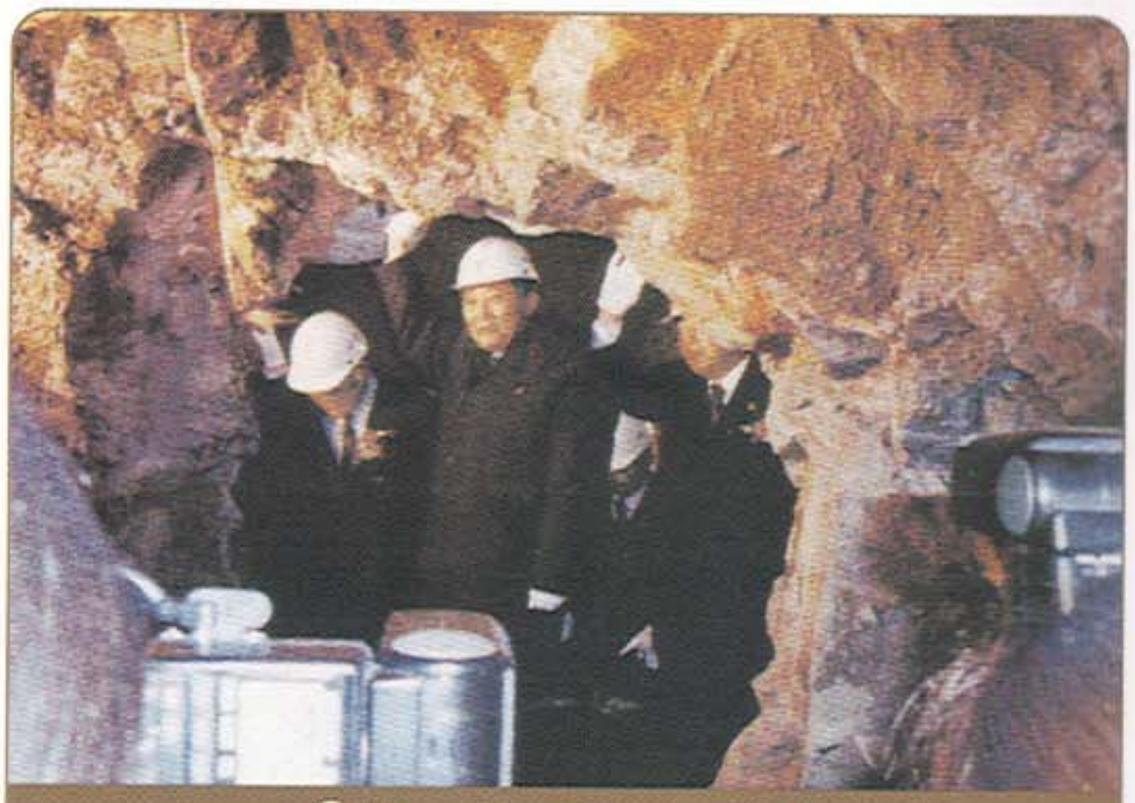
Formulation of power

$$\text{Force of each Power Cylinder(ton)} = \frac{\pi/4 \times (\text{Dia. of piston})^2 \times \text{Working pressure}}{1000} \times \text{Q'ty of Piston}$$

Example projects of Rock or Concrete Breaking



❶ Bed Rock breaking of civil Construction



❷ Tunneling Construction



❸ Boulder Breaking



❹ Road Construction

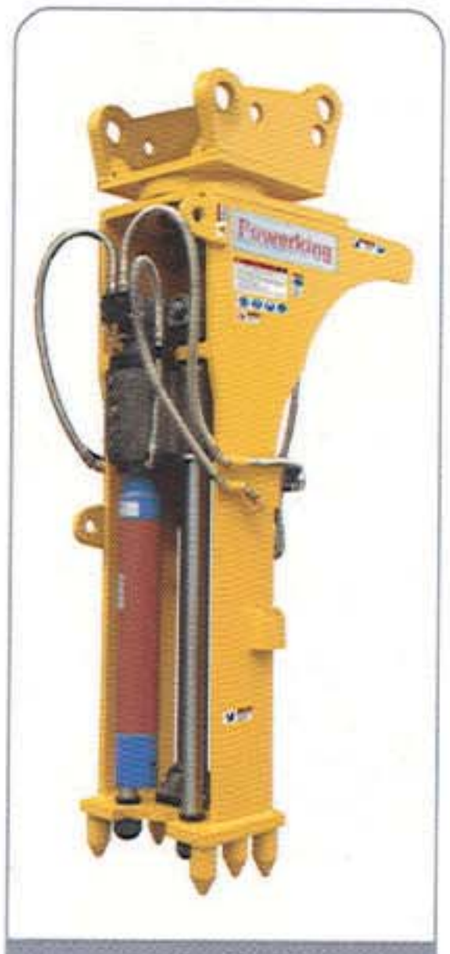


❺ Construction in residential street



❻ Concrete Breaking

Hydraulic Core Drill

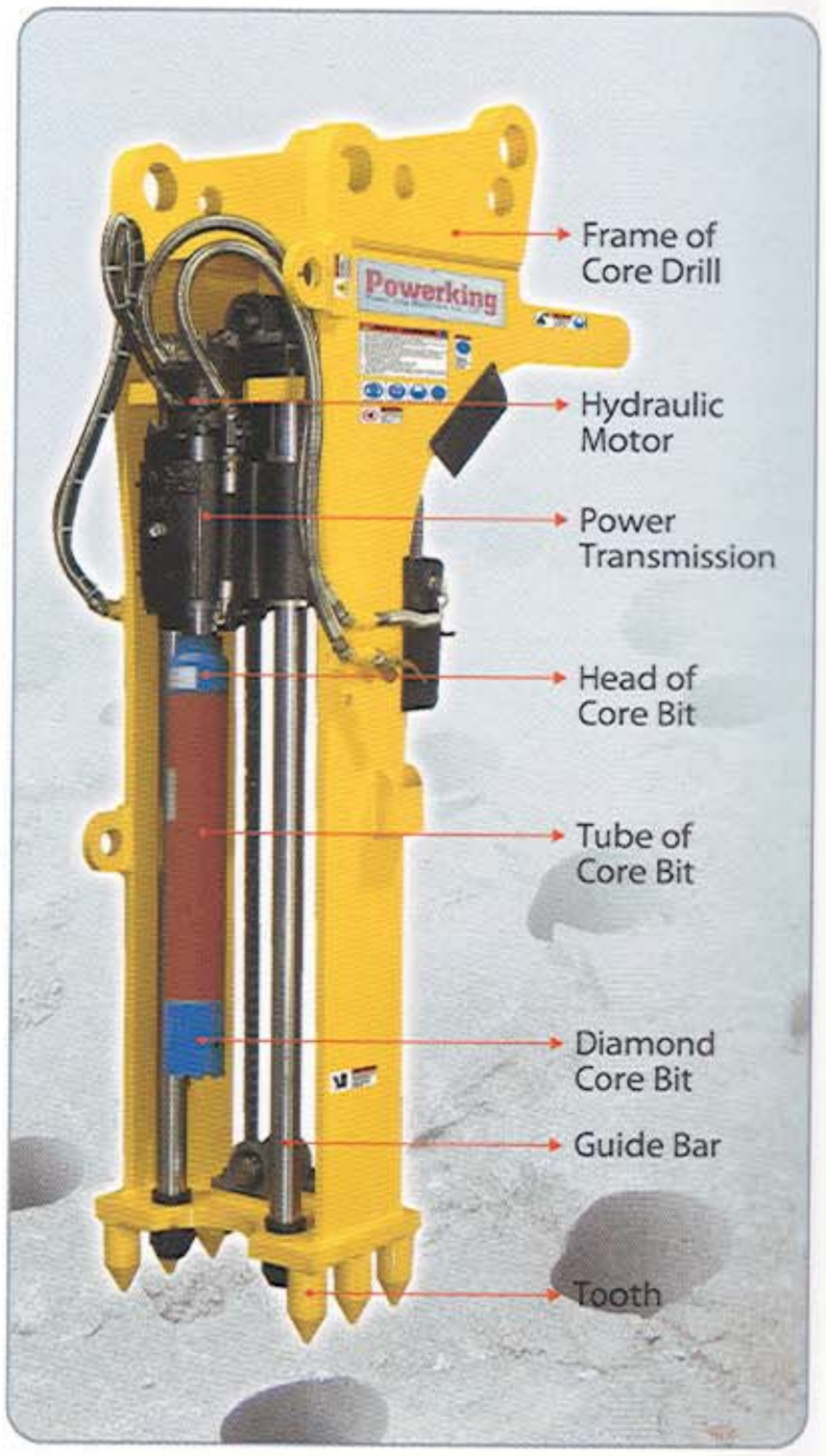


PCD 200R



PCD 200


PCD 100R




Rotating Angle 55°


Rotating Angle 0°


Rotating Angle 55°


Tube & Head of Core Bit


Diamond Core Bit

- **Hydraulic Core Drill Specification**

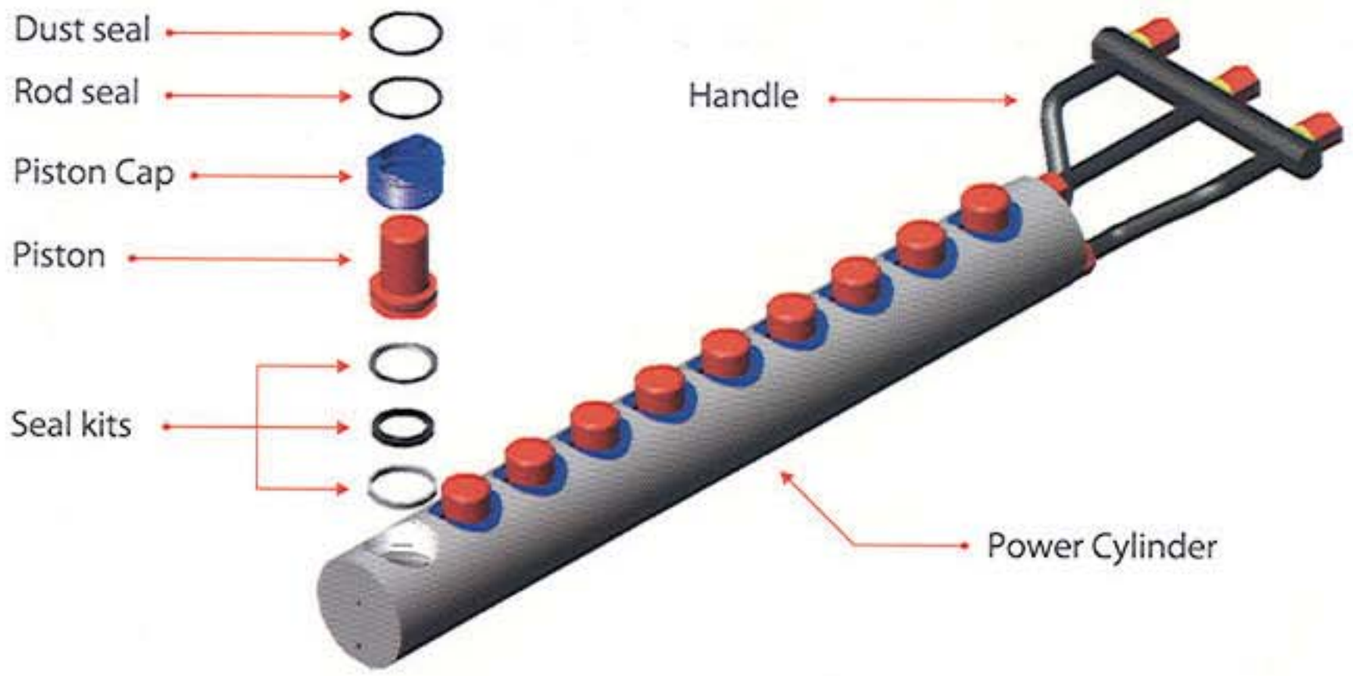
Model	PCD 200R	PCD 200	PCD 100R
Type	Rotation type	Fixed type	Rotation type
Operating Weight	1,180 kg	920 kg	590 kg
Overall Length	2,517 mm	2,345 mm	1,370 mm
Overall Width	534 mm	534 mm	520 mm
Overall Height	1,120 mm	1,100 mm	900 mm
Required Oil Flow	160~250 liter/min		60~80 liter/min
Operating Pressure	150~250 kg/cm^2		
Rotation Speed	700 rpm		
Drilling Depth	0.9~1.2 m		0.7 m
Diamond core bit (wet use)	Ø85~Ø203 mm		Ø85~Ø153 mm
Suitable Excavator	15~ 32ton(Bucket 0.6-1.0m3)		5~12 ton(Bucket 0.15-0.3m^3)

ROCK SPLITTER(PRS)

The Powerking PRS-series Rock Splitters are engineered to meet the strongest cut noise and vibration specifications.
It is one of the most efficient systems available to split Rock or Concrete in or around buildings or existing infrastructure.

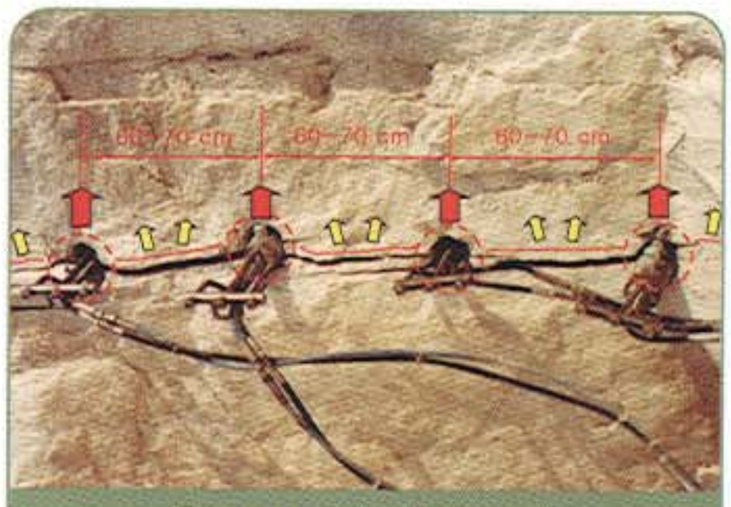
Patented Technology!!

Solid Construction





Powerful Breaking Force



Construction Interval



PRS Hyd. Burster

Power Supply Specification

Item	Description
Dimension	1060(L)x1050(W) x940(H) mm
Weight	350kg
Electric Motor	220Volt / 3 phase, 2 HP
Operating Pressure	1100kg/cm2
Hyd. Tank	40 liter

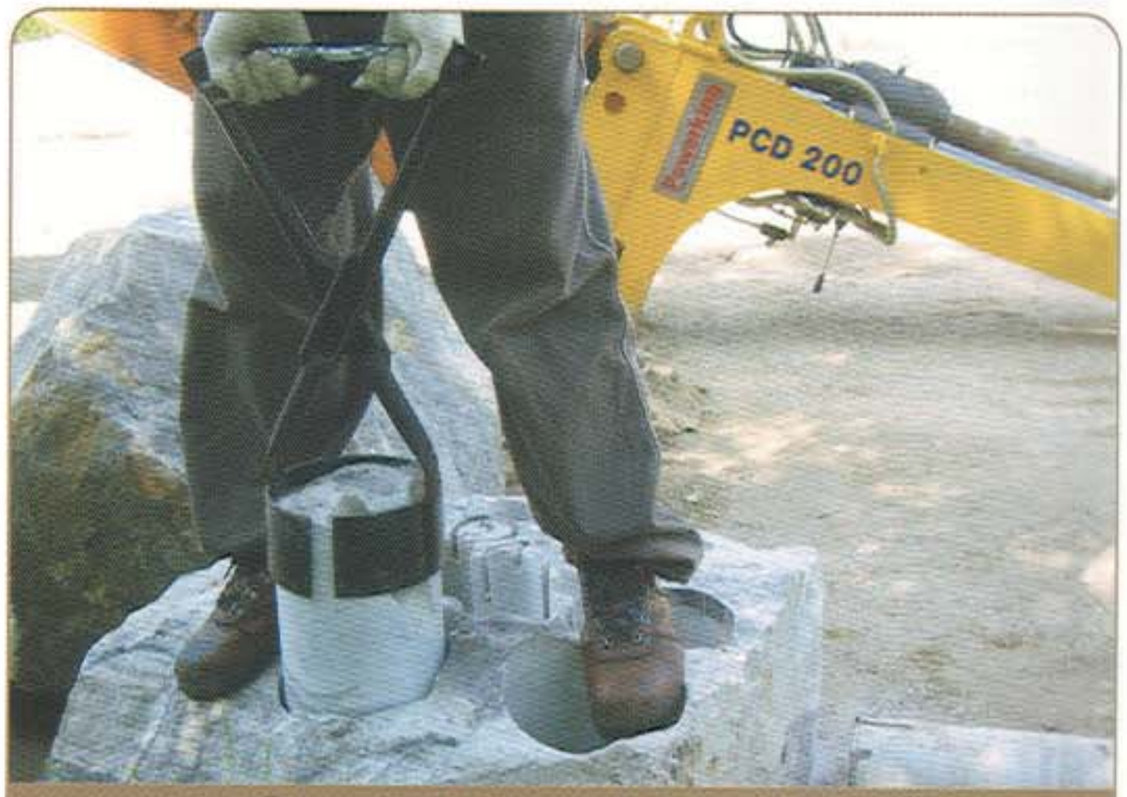


PRS Hyd. Rock splitter

Work Process



❶ Drilling the Required Holes



❷ Take out the rock after drilling



❸ Insert the Power Cylinder



❹ Power On



❺ Rock will be Fractured

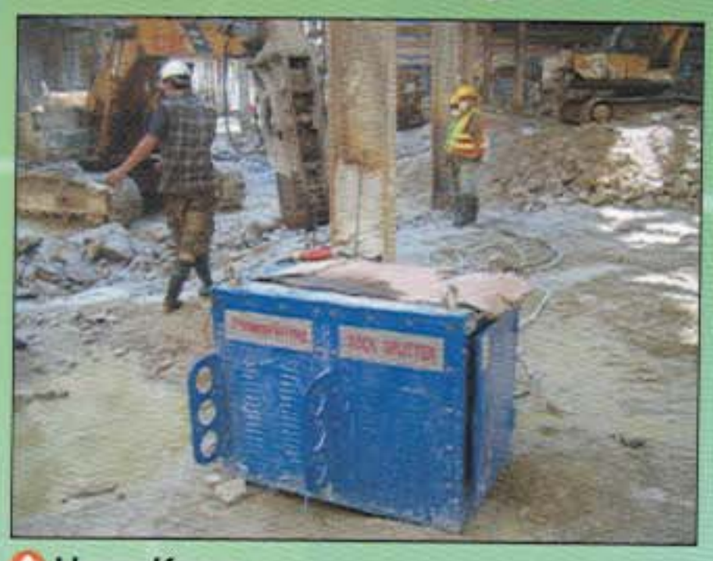


❻ Completely Fractured Rock

Powerking

Oversea Projects

www.powerkingmc.com



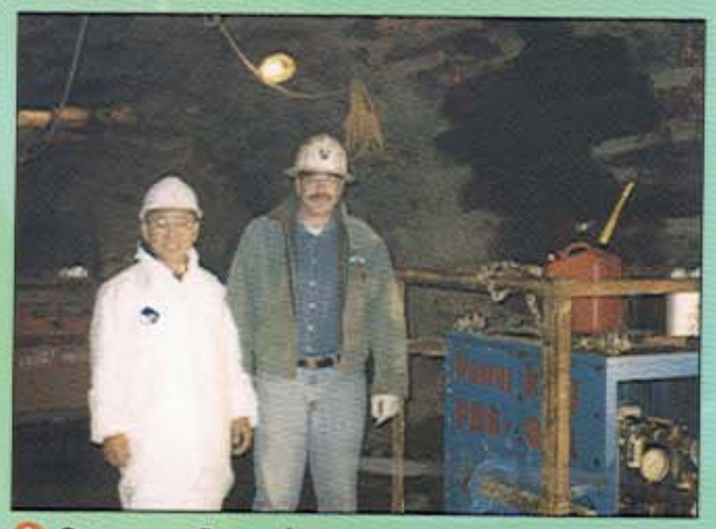
Hong Kong



New York, U.S.A



Spain



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