

**BHARAT**

UniTech

# MAGICRACK

A NON EXPLOSIVE DEMOLITION AGENT

A Bharat UniTech's  
Product

[www.bharatunitech.com](http://www.bharatunitech.com)



# About MAGICRACK

## MAGICRACK

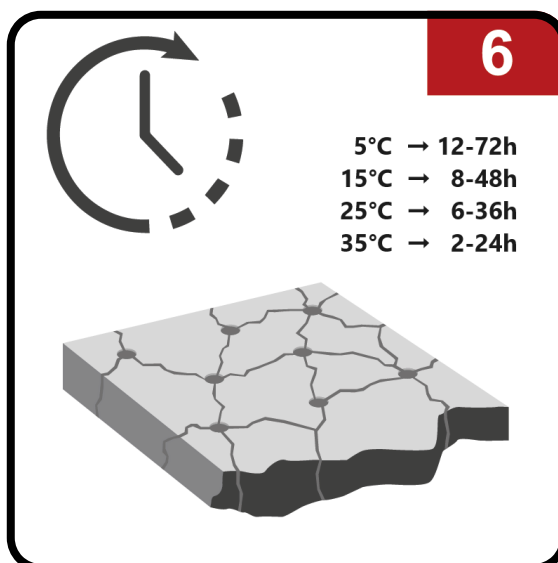
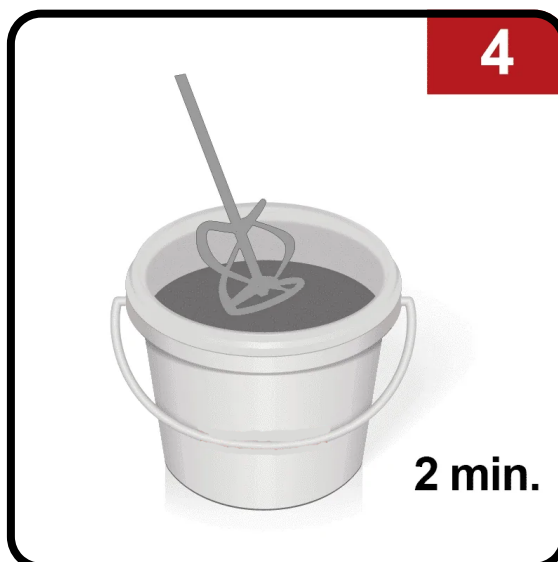
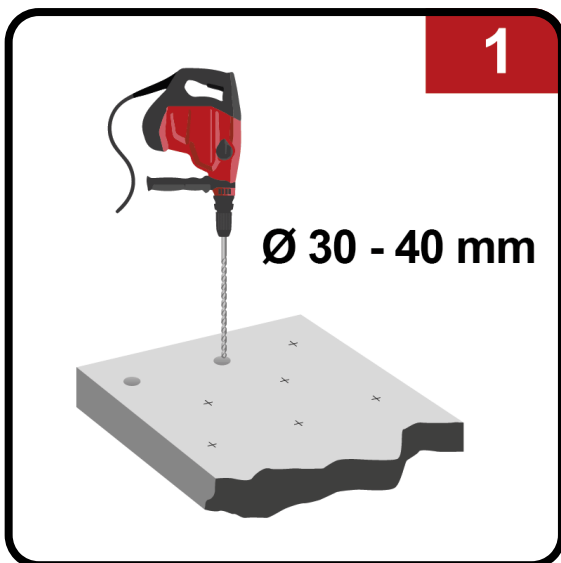
For easy and targeted demolition of rock, stone & concrete.

- **MAGICRACK** stands as an unparalleled solution in the realm of demolition agents, offering an explosive-free alternative that ensures both safety and precision. Engineered to facilitate a secure and tremor-free breakup of rock, stone, and concrete, **MAGICRACK** revolutionizes the demolition landscape without the need for intricate preconditions or specialized infrastructure.
- Distinguishing itself with an impressive shelf life of at least 2 years, **MAGICRACK** adds a layer of reliability to demolition projects. Its versatility extends to being easily transportable via parcel, simplifying logistical considerations for users.
- What truly sets **MAGICRACK** apart is its remarkable efficiency. Within a few short hours of application, **MAGICRACK** undergoes a transformative reaction, unleashing a formidable expansion pressure. This pressure swiftly reaches levels capable of effortlessly splitting apart even the most resilient hard rock and ferroconcrete, showcasing the product's unparalleled strength and effectiveness.
- **MAGICRACK** goes beyond the ordinary, rewriting the narrative of traditional blasting methods. It accomplishes its task in near silence, devoid of tremors, and without generating hazardous flying fragments. This unique approach not only ensures a safer working environment but also aligns with a commitment to environmentally conscious demolition practices.
- In a world where precision and safety are paramount, **MAGICRACK** emerges as a game-changer, providing a noiseless, tremor-free, and debris-free solution that redefines the standards of controlled demolition.

MAGICRACK stands out as the most demanding product worldwide for a multitude of compelling reasons:

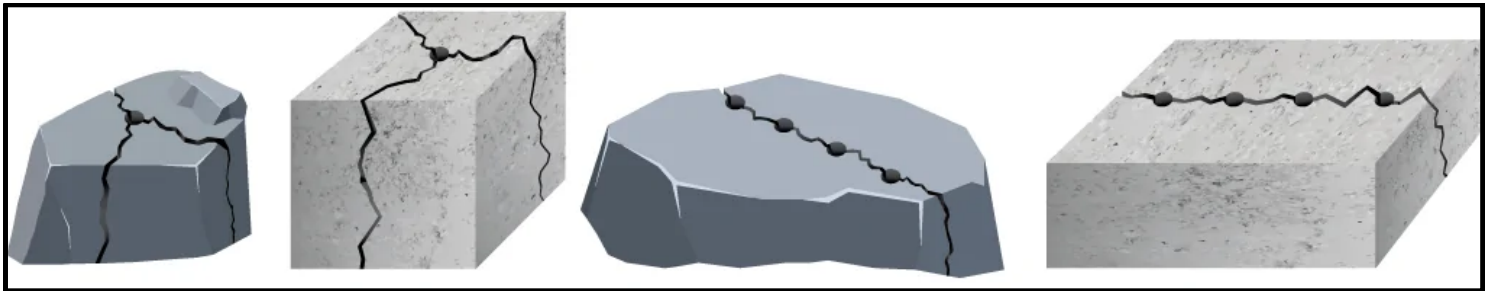
- **Unrivalled Quality and Reliability:** MAGICRACK is synonymous with exceptional quality, setting the benchmark for reliability in controlled demolition agents.
- **Unmatched Power:** Recognized as the most powerful product on the market, MAGICRACK delivers unparalleled force in breaking up rock, stone, concrete, and ferroconcrete.
- **Optimal Yield per Kilogram:** Offering the best yield per kilogram, MAGICRACK ensures cost-effectiveness and resource efficiency in demolition projects.
- **Extended Shelf Life:** With a shelf life of at least 2 years, MAGICRACK exemplifies longevity and durability, remaining dependable over an extended period.
- **Versatility for All Seasons:** As an all-year product, MAGICRACK adapts to temperatures from 5°C to 35°C, ensuring reliable performance in any season.
- **Universal Application:** MAGICRACK is universally effective for breaking up rock, stone, concrete, and ferroconcrete, making it an invaluable tool for diverse demolition projects.
- **Free & Professional Support:** MAGICRACK provides free and professional support, ensuring users have the guidance needed for successful applications.
- **Environmentally Friendly:** Crafted from natural raw materials, MAGICRACK combines powerful performance with environmental responsibility.

# HOW TO USE MAGICRACK?

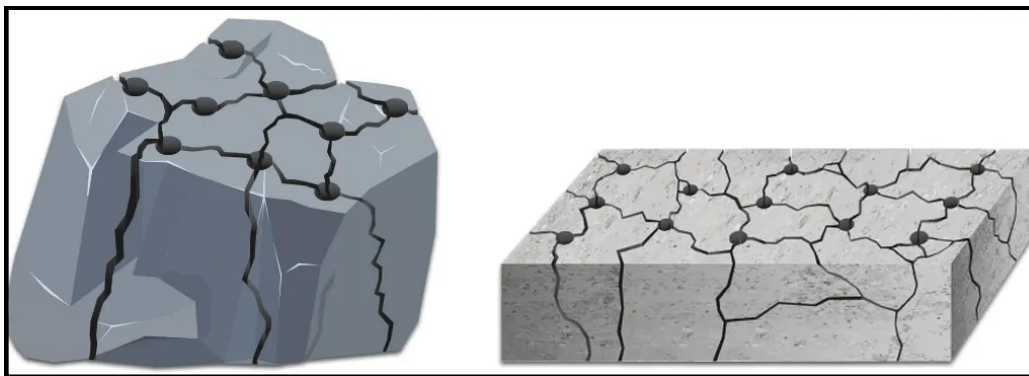


# Positioning of the boreholes.

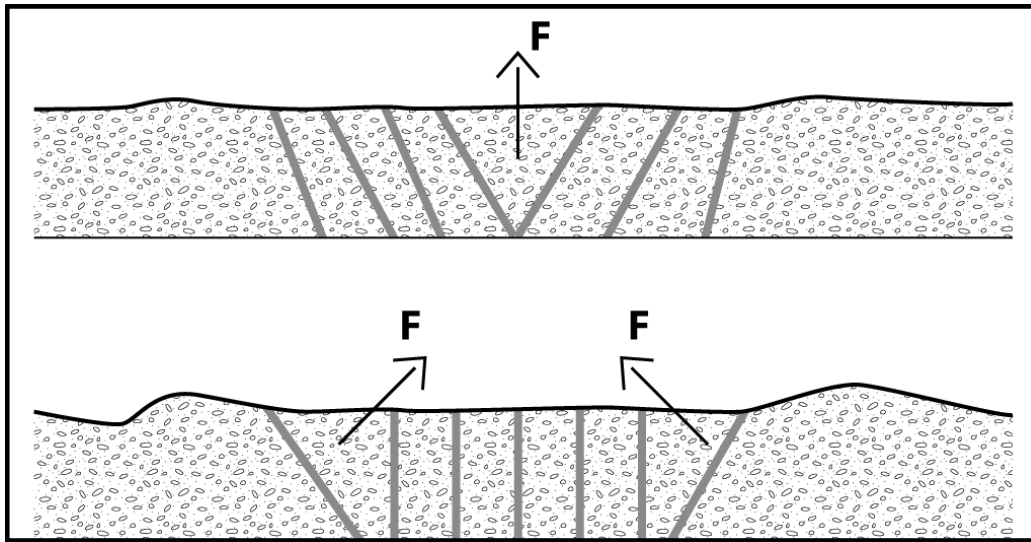
- **Basic Principle:** Cracking follows the path of least resistance. Larger boreholes mean more force, quicker reactions, and wider cracking. Closer borehole spacing results in smaller fragments and shorter reaction times.
- **Separating/Splitting Technique:** Holes drilled in a line with short spacing cause cracking to progress from hole to hole, allowing for relatively precise object separation or splitting.



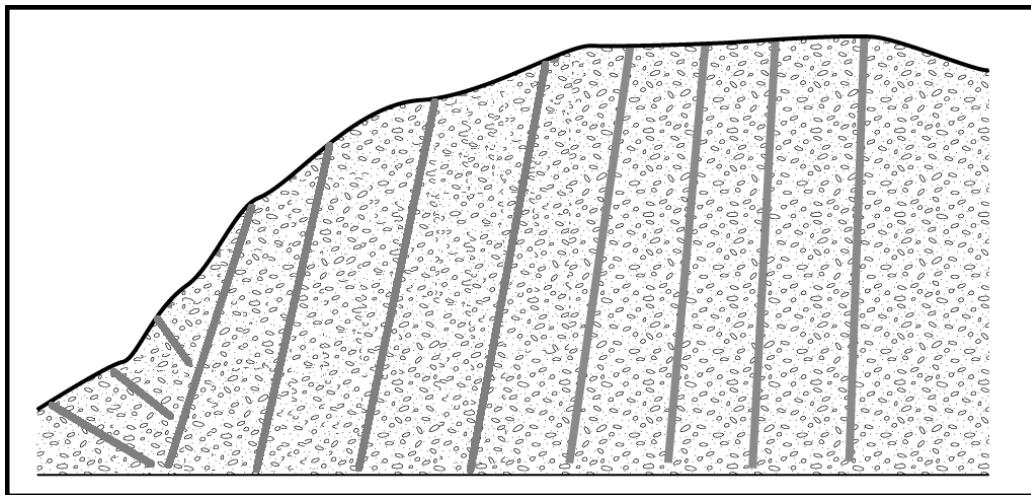
- **Breaking Up Technique:** Boreholes are drilled in offset rows to achieve the smallest fragments. More boreholes result in smaller fragments, with cracking occurring in a criss-cross pattern.



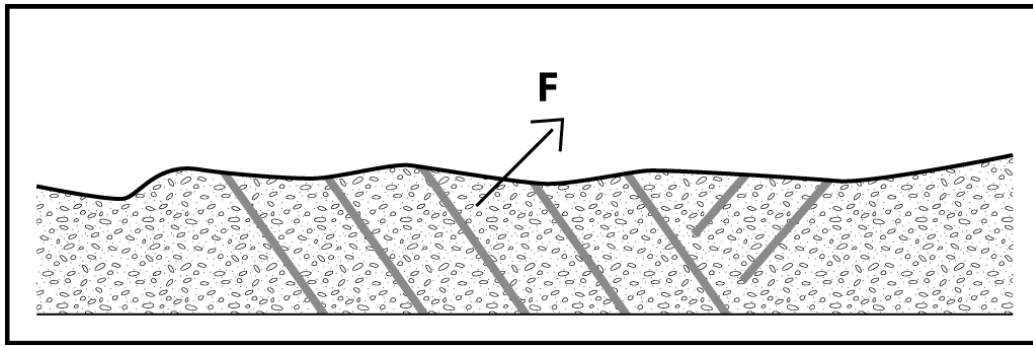
- **Digging/Removal Technique:** In scenarios where there's no free side for material displacement, space creation is achieved by opposing boreholes at angles of 35-60° or on one side at an angle of 45-60°. Angled boreholes are also effective for substantial ground level lowering, such as in cellars.



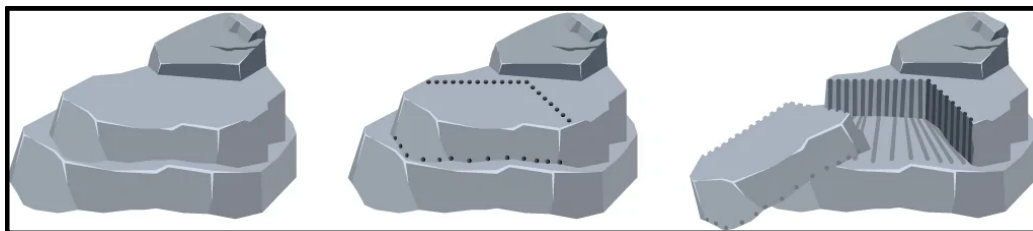
- Rock extraction / rock demolition:** There are various techniques for rock extraction or rock demolition. The drilling schedule is selected according to the shape and constitution of the rock or adapted to local regulations. The principle always remains the same. First, try to create a free side, that is, a straight edge. From this edge the extraction can then be continued for as far as is required.



- Excavation Technique:** In rock excavation, boreholes are drilled and filled in rows, positioned 5-10 inches [10-15 cm] below the desired ground level. The substrate is broken and loosened, facilitating removal by excavator or, partially, by hand. Optimal effectiveness is achieved when boreholes are somewhat obliquely drilled, allowing a portion of the force to exert upward.



- **Quarries Application: MAGICRACK** is gaining prominence in quarries due to escalating constraints on explosive blasting agents and storage regulations in many countries. As alternatives are sought, the optimal application in these settings depends on the local conditions and the material to be extracted. We're eager to collaborate and tailor a customized concept to your specific needs, whether it's marble quarrying, granite extraction, or other quarry operations.



# Material Consumption Calculation:

To determine material consumption, add the depths of all boreholes, each multiplied by the corresponding factor (refer to the table) based on the used borehole diameter. The table provides factors in commonly used weight and length units in the construction industry, along with combined units for convenience.

<b>Drill Ø</b>	<b>30mm</b>	<b>35mm</b>	<b>40mm</b>	<b>45mm</b>	<b>1-1/4"</b>	<b>1-1/2"</b>	<b>1-3/4"</b>
<b>KG per meter borehole</b>	1.2 kg	1.6 kg	2.2 kg	3.0 kg	1.4 kg	2.0 kg	2.9 kg
<b>LBS per meter borehole</b>	2.6 lbs	3.5 lbs	4.8 lbs	6.6 lbs	3.0 lbs	4.4 lbs	6.4 kg
<b>KG per foot borehole</b>	0.4 kg	0.5 kg	0.7 kg	1.0 kg	0.5 kg	0.6 kg	0.9 kg
<b>LBS per foot borehole</b>	0.8 lbs	1.1 lbs	1.5 lbs	2.1 lbs	1.0 lbs	1.4 lbs	2.0 lbs

## Examples:

You have 15 boreholes [Ø 35mm] with a depth of 0.6 metres  
Factor at Ø 35 mm: 1.6 [table]  
15 boreholes x 0.6 m x 1.6 kg = 14.4 kg BETONAMIT®

You have 15 boreholes [Ø 1½ "] with a depth of 5 feet  
Factor at Ø 1½ ": 1.4 [Table]  
15 boreholes x 5 feet x 1.4 lbs = 105 lbs of BETONAMIT®



# Technical Specifications:

The provided table illustrates the expected reaction time correlated with temperature. Additionally, valuable application insights are presented. Given the significant influence of borehole diameter on expansion force and reaction time, we advise opting for the largest feasible drill size whenever possible.

Temperature	5 °C 41 °F	10 °C 50 °F	15 °C 59 °F	20 °C 68 °F	25 °C 77 °F	30 °C 86 °F	35 °C 95 °F
Recommended borehole diameter	30 - 40 mm 1 ¼" - 1 ½"	30 - 40 mm 1 ¼" - 1 ½"	30 - 40 mm 1 ¼" - 1 ½"	30 - 40 mm 1 ¼" - 1 ½"	30 - 40 mm 1 ¼" - 1 ½"	30 - 40 mm 1 ¼" - 1 ½"	30 - 40 mm 1 ¼" - 1 ½"
Minimum borehole depth	5 x Ø drill	5 x Ø drill	5 x Ø drill	5 x Ø drill	5 x Ø drill	5 x Ø drill	5 x Ø drill
Maximum borehole depth	6 m 20 ft.	6 m 20 ft.	6 m 20 ft.	6 m 20 ft.	6 m 20 ft.	6 m 20 ft.	6 m 20 ft.
Recommended borehole spacing	10 x Ø drill	10 x Ø drill	10 x Ø drill	10 x Ø drill	10 x Ø drill	10 x Ø drill	10 x Ø drill
Amount of water per 5 kg   11 lbs	1.0 - 1.2 L 34 - 40 oz.	1.0 - 1.2 L 34 - 40 oz.	1.0 - 1.2 L 34 - 40 oz.	1.0 - 1.2 L 34 - 40 oz.	1.0 - 1.2 L 34 - 40 oz.	1.0 - 1.2 L 34 - 40 oz.	1.0 - 1.2 L 34 - 40 oz.
Cracking time	10 - 36 h	10 - 18 h	8 - 16 h	6 - 14 h	6 - 10 h	4 - 8 h	2 - 6 h

## Insider Tip:

Harness the power of patience with MAGICRACK! Its expansion unfolds over several days, making the subsequent removal of fragments significantly easier. So, relax and let MAGICRACK handle the heavy lifting, ensuring a smoother demolition process when you give it the time it needs.