

# **nxburst**

ROCK BREAKING CARTRIDGES

Manufactured By



## MARKET LEADING ROCK-BREAKING CARTRIDGES

Supplied By **SMS Wales**





## **A NEW MEANING TO GROUNDBREAKING**

Since the formation of Nxco Mining Technologies (Pty) Ltd almost two decades ago, the company has developed into a leading manufacturer of innovative propellant-based, rock and concrete-breaking technologies. Nxco's distribution network spans the globe.

Nxco operates from a licensed facility in Pelindaba, close to Pretoria where the products are manufactured and assembled.

Always in touch with the latest trends and demands, the experienced Research and Development team ensures that the company remains at the forefront of supplying specialised products that meet the most exacting, modern requirements.

## **CONSULTING SERVICE**

Nxco offers the services of an experienced team who consults to industry for the efficient utilisation of their products.

Project based consultation services range from concrete-breaking, rock-breaking, tunnelling, pipe jacking, trenching as well as underwater applications that include harbour-deepening.

The mining consultation services includes open cast mining, deep level underground mining (stoping and slyping), blast and productivity improvements specifically in seismic sensitive environments and oversize management.

Nxco offers recognised training programs in explosives such as Introduction into Explosives, Explosive Safety, Explosive Awareness, RBC Blasters and Magazine Masters

The Nonex™ and Nxburst™ range of cartridges are available with a choice of initiators. Electric initiation is utilised on all cartridges, with non-electric initiation offered on sizes larger than 34 mm. A timing system for sequential firing is available for use on the 34mm, 60m and 90mm cartridges. All cartridges can be water-proofed on request.



13mm Rock Popper Range



28mm Cartridge Range



34mm Cartridge Range



42mm Cartridge Range



60mm Cartridge Range



90mm Cartridge Range

**NONEX™ AND NXBURST™ CARTRIDGES  
ARE IDENTICAL PRODUCTS**

### 13mm Rock Popper Range

Small rocks, crusher blockages, oversize boulders, scale removal in tanks and small demolition projects.

### 28mm Cartridge Range

Breaking boulders, armour stone splitting, medium-sized concrete demolition, dimension stone quarrying, swimming pool excavations and other *in situ* rock-breaking.

### 34mm Cartridge Range

Concrete demolition, tunnel and shaft enlargement and other *in situ* rock excavations.

### 42mm Cartridge Range

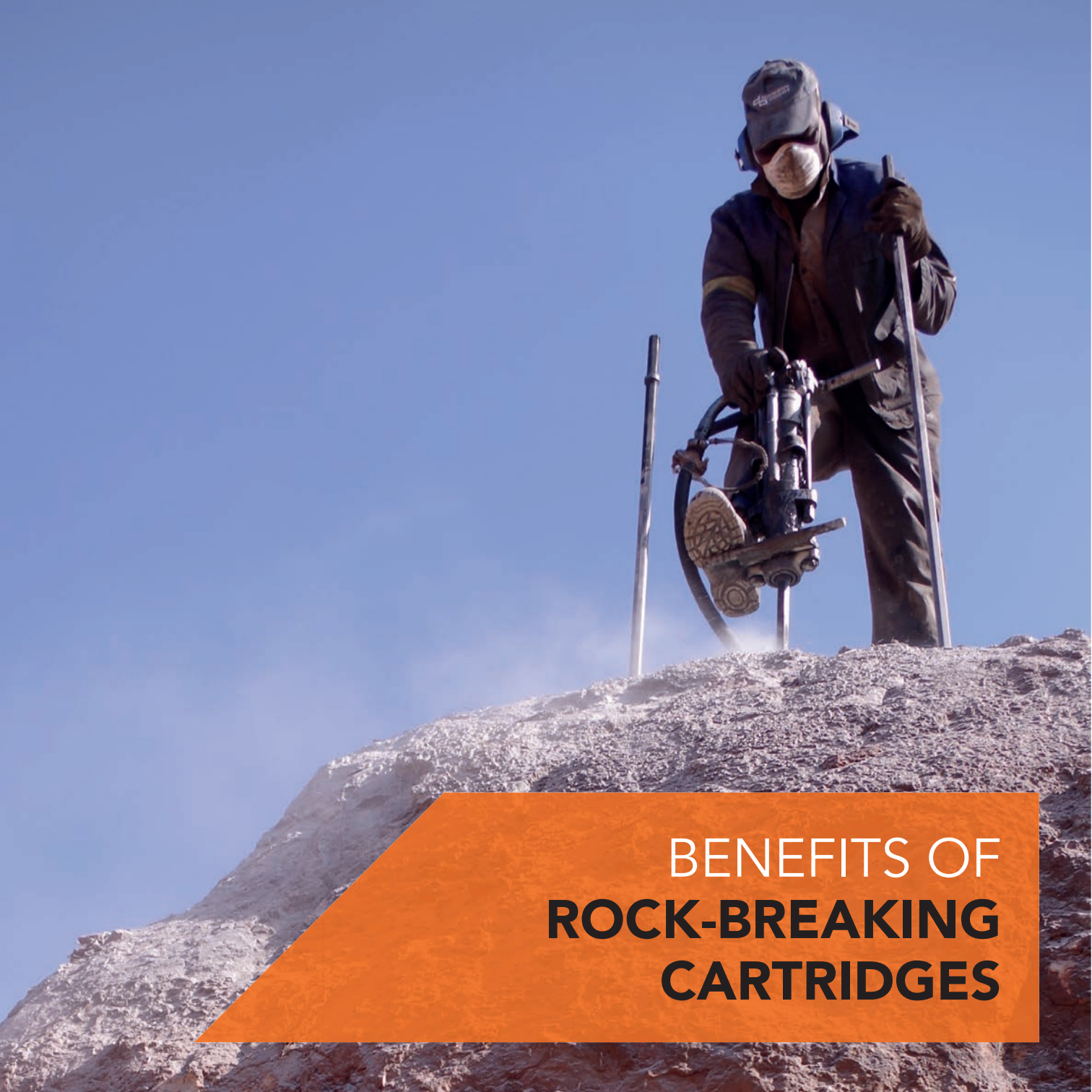
Introduced to fit in with the mining industry's drilling requirements. Ideal for concrete demolition, tunnel and shaft enlargement, trenching and other large *in situ* rock excavations.

### 60mm Cartridge range

Large scale rock excavations, hard rock trenching, foundation excavation and other sensitive civil rock and concrete-breaking.

### 90mm Cartridge Range

Large scale rock excavations, hard rock trenching, open cast mining, lava removal, sensitive rock applications and concrete-breaking applications.



**BENEFITS OF  
ROCK-BREAKING  
CARTRIDGES**

# ENVIRONMENTAL CONSIDERATIONS

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## ADVANTAGES OF ROCK-BREAKING CARTRIDGES



### **Controllable Dust and Fly-rock**

Little to no dust  
Fly-rock is 100% controllable



### **Limited Noise**

Stemming, matting and  
ground cover  
further reduce noise



### **No Air-blast Overpressure**

Low air-blast pressure  
Short pressure cycle  
Less damaging frequency



### **Low Ground Vibration**

No shockwave  
Suitable for use in seismic  
sensitive environment  
Suitable for use in close proximity  
to people and equipment

**WE CARE ABOUT THE IMPACT ON OUR ENVIRONMENT**



**IMPACT ON THE ENVIRONMENT:  
CRITICAL TO THE SELECTION  
OF EXPLOSIVES**

# FRAGMENTOR™



The Fragmentor™ is our range of self-stemming cartridges. Fragmentor™ cartridges are available in two models - the Axial Piston (AP) and Concentric Case (CC) ranges.

### The AP range is made for single self-stemming applications in blind holes and features:

- An axial piston seal activating system
- Retaining devices to hold them in the desired installation positions

### The CC range is made for self-stemming application in blind holes as well as through holes and features:

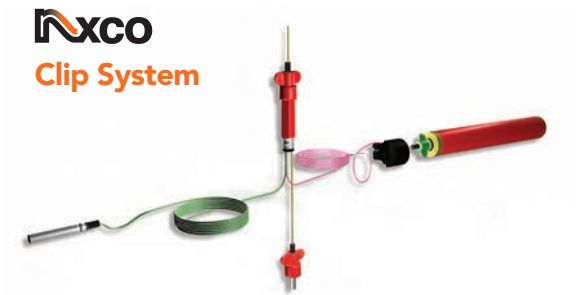
- A concentric active sealing system
- Cartridge retaining device to enable placement in any hole orientation

### The Fragmentor™ range is designed for:

- Serial installations (Stacking)
- Deep holes
- Through holes
- Fractured rock
- Porous rock
- Underwater application

## OTHER PRODUCTS

### • Sequential timing – CLIP System



### Shock tube timing system

Used for initiating cartridges – developed to ensure safe and accurate sequential firing in complex blast patterns.

### • All blast accessories

### • All drill accessories

### • Rock breaking chemical



**BEFORE**



**AFTER**

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