

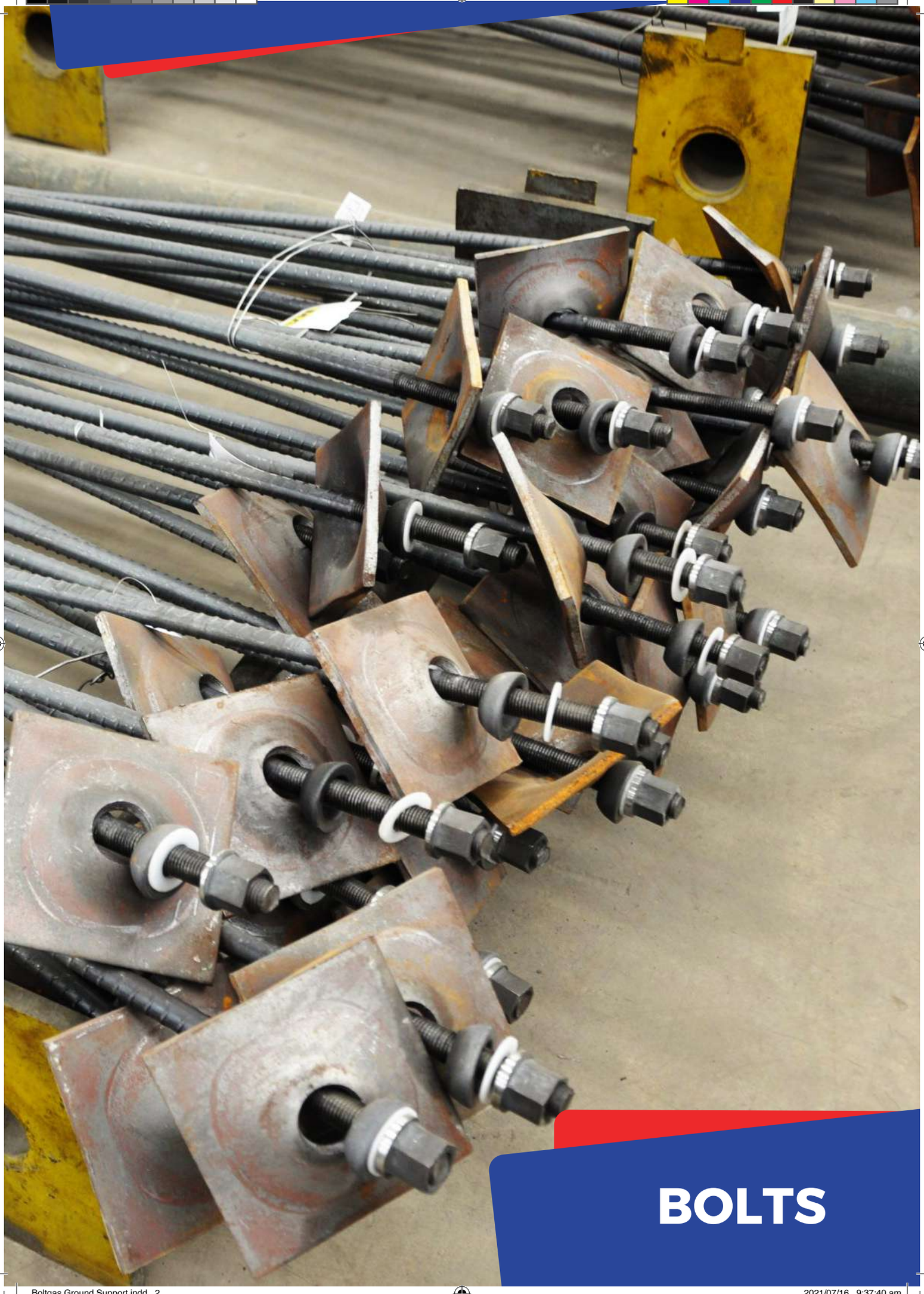
BOLTGAS®

TRUSTED INGENUITY & SERVICE EXCELLENCE

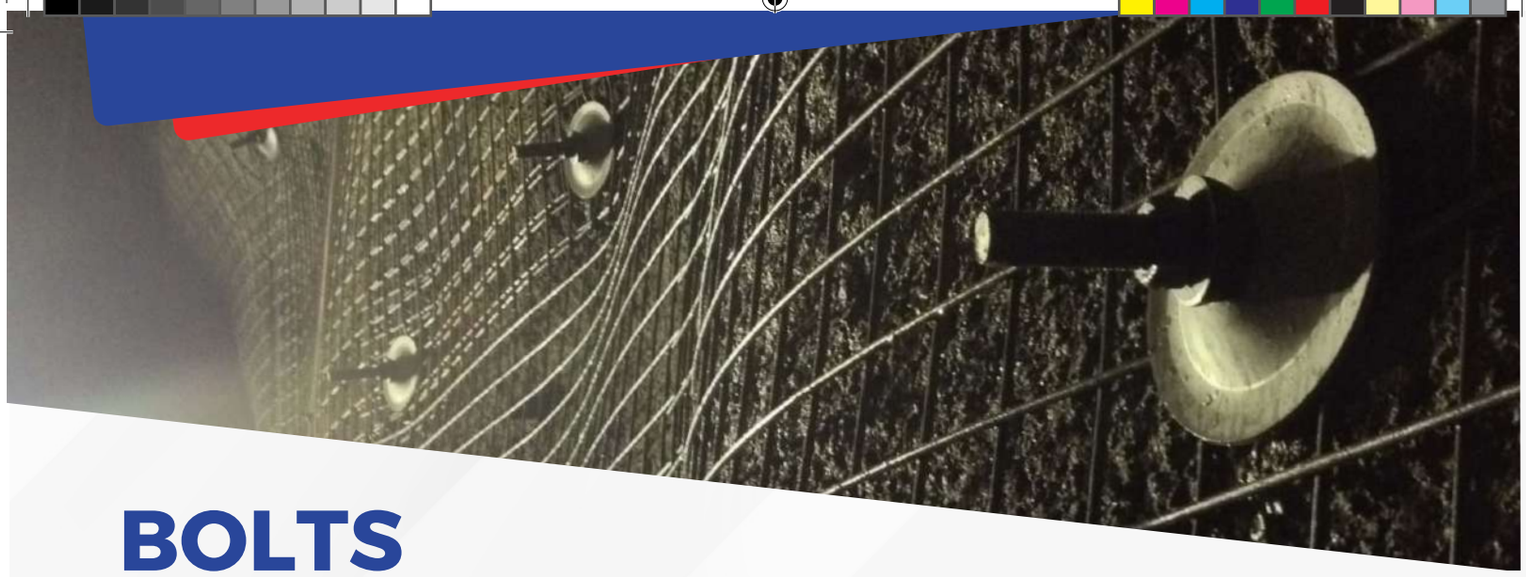
GROUND SUPPORT

Authorised Agent and Distributor of MINOVA

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BOLTS



BOLTS

	APPLICATION	DESCRIPTION
Resin Anchored Roof Bolt 	Comprises the stud, nut, bearing plate washer and a selection of accessories and modifications which can be configured to suit particular installation and rock support requirements.	Used in conjunction with resin capsules to provide primary ground support by high strength bonding between rock strata and the steel bar of the roof bolt.
Self Drilling Roof Bolt 	Applied for effective stabilisation and reinforcement of unstable ground conditions such as sand, gravel, silt and low to medium fructured rock.	Does not require to pre-drill a hole, therefore making it usable even in soft rock conditions. It acts as a drilling rod, as well as an anchor bar and a grouting pipe.
Coupling bolt 	Used for roof support in mine workings as independent or additional support.	Bolts which are manufactured and installed as separate pieces that are joined together to form a single bolt unit.
Welded shepherd crook 	Used in conjuntion with quick set cement to provide passive support on rock strata.	Comprises of a steel mining bar bended on one end to form an eye.
Forged shepherd crook 	Used for roof support in mine workings as independent or additional support.	Comprises of a steel mining bar subjected to heat expansion and perforated to form an eye of 50mm in diameter.
Splitsets 	Used in conjuntion with quick set cement to provide passive support on rock strata.	It has only two parts: a tube and a bearing plate. The high-strength steel tube has a slot along its length; one end is tapered for easy insertion, and the other has a welded ring flange to hold the plate.



ANCHORING GROUTS



ANCHORING GROUTS

	APPLICATION	DESCRIPTION
RESIN CAPSULES 	Used in conjunction with roof bolts to provide primary ground support by high strength bonding between rock strata and the steel bar of the roof bolt. They can be used with hydraulic and pneumatic type bolters.	It is a two-compartment capsule that consists of a tube of polyester film clipped at both ends. One compartment contains resin, the other contains catalyst.
B5 GROUT 	Used in the installation of mechanical long-anchors.	Supplied in a 25kg or 10kg lined woven polypropylene bag. It is a single component powder that is mixed with water. The mixed grout is intended for placement through a suitable grout pump.
CEMENT CAPSULES 	Used in rock anchoring applications, particularly overhead roof bolting as encountered in mining and tunneling.	Supplied as ready to use dry powder encapsulated in a water permeable skin. When required for use, the capsules are soaked in water which is absorbed through the skin, forming a thixotropic non-shrink grout. The capsules absorb the correct amount of water.
PUMBABLE CEMENT 	It is a pumpable grout for use in the installation of mechanical long-anchors	It is supplied in 25kg woven polypropylene bags with an inner liner

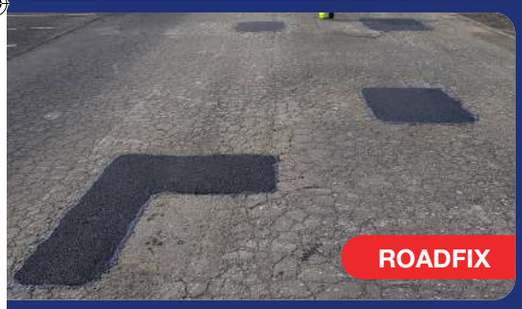


SPECIALIZED PRODUCTS

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SPECIALIZED PRODUCTS

	APPLICATION	DESCRIPTION
 TEKCRETE FAST	Used to provide skin support in underground working with highly fractured rock and high excavations.	An altra-rapid hardening, high perfomance dry process shotcrete(-gunite). Fibre-reinforced, the product offers superlative adhesion chacteristics and strength over 11 000psi for use in conventional, dry process shotcrete equipment.
 ROADFIX	Used to provide quick filling of potholes for immediate tracking of vehicles and machinery.	Roadfix consists of a graded aggregate coated with bitumen – type binder. Supplied in 25kg bags and is applied directly from the bags.
 AERATED CEMENT	Can be used for general void filling and the construction of lightweight barriers, bulkheads and stoppings. Typical applications are for void filling above closed-off arches in tunnel drives or after rockfalls.	A single component, non-combustible, aerated cement. Supplied as a powder, it readily forms a foamed grout on mixing with water in a purpose designed placer.
 CEMENT FOAM	Can be used for general void filling and the construction of lightweight barriers, bulkheads and stoppings. Typical applications are for void filling above closed-off arches in tunnel drives or after rockfalls.	Powder is supplied in 25kg lined woven polypropylene bags. It forms cement foam on mixing with water in a purpose designed placer.

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HARARE OFFICE

58A Steven Drive, Berverly West
Msasa Industrial, Harare
T: +263 4 487113-4
T: +263 4 447765-6

BULAWAYO OFFICE

Cnr Fife Street & 14th Avenue,
Bulawayo, Zimbabwe
T: +263 292 887251

SOUTH AFRICA

4 Glasglow Road, Benoni
Industrial Site, 1500, South Africa
T: +27 11 892 4291/3
T: +27 11 892 4083
E: sales@boltgas.com

DRC OFFICE

Unit 144 Pilipili Avenue
Kolwezi Town, Lualaba Province,
DRC Congo

MOZAMBIQUE

Rua 1º de Maio, No 1, Bairro
de Matundo, Tete, Mocambiqu
T: +84 515 2780
E: chris@ferrugemdegas.com

www.boltgas.com