ELBROC
Your Ultimate Underground Support Partner

a member of the
royal bafokeng holdings

mogs mining services

ISO 9001
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ELBROC Mining Products (Pty) Ltd is a recognized leading manufacturer and supplier of In-Stope Roof Support Products to the Mining Industry. This Gauteng based ISO 9001 facility provides patented propriety products with capabilities covering design, development, machining, fabrication, assembly and testing. Mechanical and Hydraulic Props that are used as Sacrificial or Temporary Support along with related accessories forms the core of the business. A Remote Drill Rig, Prestressed Elongate and Grout Pump complete the product range. Equipment is serviced with a full range of replacement parts available. Elbrc's products have application in all Mines with Gold, Platinum and Coal the primary market.

Elbrc's in-house capability has led to the introduction of the Omni 150 prop (sacrificial and re-usable hydraulic prop). This prop provides up to 190kN installation load and 300kN dynamic load at 3m/s. The Omni 150 is used as blast-on support in ultra-deep hard rock mines for stoping applications up to 6,0m and can withstand numerous seismic events. The Omni 150 may also be used in the construction of haulage set structures and has found a niche in coal mines, both locally and internationally, where solutions are provided for pillar rehabilitation, conveyor belt road set construction and on longwall moves. Set installations in excess of 10 meters have been successfully undertaken. All equipment required for underground steel sets are manufactured and supplied by Elbrc.

The Omni 127 prop (sacrificial and re-usable hydraulic prop) provides up to 190kN installation load and 300kN dynamic load at 3m/s. The Omni 127 is used as blast-on support in ultra-deep hard rock mines for stoping applications up to 4,5m and can withstand numerous seismic events.

The Omni 89 (sacrificial and re-usable hydraulic prop) provides up to 190kN installation load and 300kN dynamic load at 3m/s. The Omni 89 is used as blast-on support in ultra-deep hard rock mines in applications up to 2,0m and can withstand numerous seismic events. It is also used in applications up to 2,5 meters at lower tonnages.

The hydraulically installed XT 150 friction yield prop provides up to 190kN installation load and 300kN dynamic load at 3m/s and is used in the same applications as the Omni 150 prop.

The mechanically installed T-Prop provides 2 to 3 tons of installation load at the stope face. The medium duty temporary support unit can withstand up to 7 tons of load without damage to the unit, whilst the heavy duty temporary support unit can withstand up to 12 tons of load without damage to the unit. Both units are modular which makes it extremely cost effective for any mine and a heavy duty yielding temporary support unit completes the range.

Elbrc manufacture and supply a remote Drill Rig allowing for 5 meter remote drilling in hard rock mines up to 5,3m.

The RB 80 Hydraulic Prop is designed to be used as blast-on support in ultra-deep hard rock mines where stoping applications exceed 1m up to 3m. Installation load resistance up to 170kN, slow convergence load resistance at 200kN and dynamic load resistance up to 500kN at 3m/sec.

Many products are exported with products like the Omni 150 hydraulic prop having been sold into the USA for over ten years. Elbrc is solutions driven giving rise to products being enhanced, allowing products like the Omni 150 to be offered as a standard in 20 & 40 ton derivatives. Yielding can also be customized within a range from 5 to 45 tons as per customer requirements.

Elbrc strives to achieve superior quality and service, and makes no compromises in terms of mining safety. Elbrc places an emphasis on clear communication, to ensure that we meet the specific requirements of our customers. This is borne out by the fact that we have an ever increasing customer base locally and in the USA with customers as far afield as Peru and Russia. Elbrc aims to increase its international exposure by creating partnerships with companies involved in underground support on a distribution or agency basis.
The safety of Miners is our business providing the Ultimate Underground Support.

Elbroc has an experienced Sales Team which includes an Underground Technical Team to assist with your underground support needs.

Visit our website at [www.elbroc.co.za](http://www.elbroc.co.za) for more product information

### Product Summary - Elbroc Mining Products (Pty) Ltd

<table>
<thead>
<tr>
<th>Product</th>
<th>Type</th>
<th>Installation Load</th>
<th>Working Load</th>
<th>Dynamic Load</th>
<th>Yield travel Minimum</th>
<th>Yield travel Maximum</th>
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<td>T-Prop</td>
<td>Temporary</td>
<td>3 tons</td>
<td>5 tons</td>
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<td>N/A</td>
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<td>T-Prop HD</td>
<td>Temporary</td>
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<td>12 tons</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>T-Prop HD Yielding</td>
<td>Temporary</td>
<td>3 tons</td>
<td>6 - 10 tons</td>
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<td>N/A</td>
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<tr>
<td>RV 89</td>
<td>Temp + Sacrificial</td>
<td>15 - 17 tons</td>
<td>17 - 20 tons</td>
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<td>200mm</td>
<td>700mm</td>
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<tr>
<td>Omni 89 10T</td>
<td>Temp + Sacrificial</td>
<td>8 - 9 tons</td>
<td>9 - 11 tons</td>
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<td>200mm</td>
<td>900mm</td>
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<tr>
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<td>Temp + Sacrificial</td>
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<td>17 - 20 tons</td>
<td>30 tons</td>
<td>200mm</td>
<td>700mm</td>
</tr>
<tr>
<td>Omni 127</td>
<td>Temp + Sacrificial</td>
<td>15 - 17 tons</td>
<td>17 - 20 tons</td>
<td>30 tons</td>
<td>200mm</td>
<td>1400mm</td>
</tr>
<tr>
<td>Omni 150</td>
<td>Temp + Sacrificial</td>
<td>17 - 20 tons</td>
<td>17 - 20 tons</td>
<td>30 tons</td>
<td>200mm</td>
<td>1600mm</td>
</tr>
<tr>
<td>Omni 150 HD</td>
<td>Temp + Sacrificial</td>
<td>17 - 20 tons</td>
<td>38 - 42 tons</td>
<td>N/A</td>
<td>200mm</td>
<td>1500mm</td>
</tr>
<tr>
<td>XT 150</td>
<td>Sacrificial</td>
<td>15 - 18 tons</td>
<td>22 - 25 tons</td>
<td>30 tons</td>
<td>200mm</td>
<td>1400mm</td>
</tr>
<tr>
<td>RB 80</td>
<td>Temporary</td>
<td>15 - 18 tons</td>
<td>18 - 22 tons</td>
<td>30 tons</td>
<td>200mm</td>
<td>1400mm</td>
</tr>
</tbody>
</table>
RB80 RAPID YIELDING HYDRAULIC PROP BEING TESTED TO THE CHAMBER OF MINES RESEARCH ORGANISATION STANDARD OF 3m/sec.
Elbroc Mining Products (Pty) Ltd is a recognized leading manufacturer and supplier of In-Stope Roof Support Products to the Mining Industry. This Gauteng based ISO 9001 facility provides patented propriety products with capabilities covering design, development, machining, fabrication, assembly and testing. Mechanical and Hydraulic Props that are used as Sacrificial or Temporary Support along with related accessories forms the core of the business. A Prestressed Yielding Arch set, Remote Drill Rig, Prestressed Elongates and Grout Pump complete the product range. Equipment is serviced with a full range of replacement parts available. Elbroc's products have application in all mines with Gold, Platinum and Coal being the primary market.

Omni 89 Prop
Provides up to 200kN load and 300kN dynamic load at 3m/sec. Active support up to 2.0 meter stopping width. Can be used as permanent or re-usable support and is a blast-on prop.

Omni 127 Prop
Provides up to 200kN load and 300kN dynamic load at 3m/sec. Active support up to 4.5 meter stopping width. Can be used as permanent or re-usable support and is a blast-on prop.

Omni 150 Prop
Provides up to 200kN load and 300kN dynamic load at 3m/sec. Can be used as permanent or re-usable support and is a blast-on prop. Props can be used with set pieces in bad areas for arch support. Standard units available for controlled yielding at 20 & 40 ton.

XT 150
Is a yielding friction prop. Installed at 200kN load and 300kN dynamic load at 3m/sec. The prop is a sacrificial blast-on prop and can be used with set pieces in bad areas as arch support.

RB 80 Hydraulic Prop
Installed as a blast-on prop close to the stope face. Installation loads at 170kN with skew load resistance at 200kN and dynamic load resistance of up to 500kN at 3m/sec. Stopping up to 3m can be accommodated.

T-Prop
Easy to install to 30kN at the work face and is a mechanical temporary support prop. The unit is modular and is refurbishable with cost effective results. Medium, Heavy Duty and Heavy Duty Yielding T-Props available.

Remote Drill Rig
Operated from a safe distance, the rig is easy to use and is low maintenance. Heights from 1.6m to 5.3m available.

Various Steel Sets
1) TH Yielding Sets
2) Prestressed Yielding Arch Sets
3) Prestressed Active Omni 150 Sets

Elbroc has an experienced Sales Team which includes an Underground Technical Team to assist you with your underground support needs. The safety of Miners is our business providing the Ultimate Underground Support.
T-PROP
ELBROC TEMPORARY SUPPORT PROP

APPLICATIONS
- INSTALLED AS A TEMPORARY SUPPORT IN ALL AREAS BEFORE WORK COMMENCES.
- TUNNELS, PORTALS, STOPING, DEVELOPMENT ENDS, ORE PASSES, ROADWAYS AND CONVEYOR BELTWAYS

BENEFITS
- INSTALLED AT 2-3 TONS
- LIGHTWEIGHT AND EASY TO USE
- MODULAR UNIT AND COST EFFECTIVE TO REPAIR
- VARIOUS FOOT PLATE SIZES AVAILABLE
- SIMPLE CAM AND HANDLE TO ACTIVATE
- REMOVAL FROM A SAFE DISTANCE
- AVAILABLE FROM 0.9m TO 5.3m

FEATURES
- LOAD SPREADER FITTED FOR ARIAL SUPPORT
- EASY INSTALLATIONS
- SUPPLIED WITH HOOKS FOR SAFETY NETS
- CARRY HANDLE FOR EASE OF TRANSPORTING AND HANDLING
- LIFTING HANDLE ATTACHED
- COMPREHENSIVE TRAINING PROVIDED ON SITE AS STANDARD

ACCESSORIES

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT DESCRIPTION</th>
<th>MEDIUM DUTY T-PROP</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>4204</td>
<td>T1</td>
<td>T-PROP SW - 0.70M + 1.05M (T1) - CW 400MM CHANNEL LSREADER</td>
<td>18 Kg</td>
</tr>
<tr>
<td>4204</td>
<td>T2</td>
<td>T-PROP SW - 0.95M + 1.35M (T2) - CW 400MM CHANNEL LSREADER</td>
<td>21 Kg</td>
</tr>
<tr>
<td>4204</td>
<td>T3</td>
<td>T-PROP SW - 1.05M + 1.05M (T3) - CW 400MM CHANNEL LSREADER</td>
<td>22 Kg</td>
</tr>
<tr>
<td>4204</td>
<td>T4</td>
<td>T-PROP SW - 1.30M + 2.10M (T4) - CW 400MM CHANNEL LSREADER</td>
<td>27 Kg</td>
</tr>
<tr>
<td>4204</td>
<td>T5</td>
<td>T-PROP SW - 1.60M + 2.65M (T5) - CW 400MM CHANNEL LSREADER</td>
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<tr>
<td>4204</td>
<td>T6</td>
<td>T-PROP SW - 2.10M + 2.30M (T6) - CW 400MM CHANNEL LSREADER</td>
<td>36 Kg</td>
</tr>
<tr>
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<td>T7</td>
<td>T-PROP SW - 2.30M + 4.10M (T7) - CW 400MM CHANNEL LSREADER</td>
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</tr>
<tr>
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<td>T8</td>
<td>T-PROP SW - 3.60M + 4.80M (T8) - CW 400MM CHANNEL LSREADER</td>
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<table>
<thead>
<tr>
<th>CODE</th>
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<th>HEAVY DUTY T-PROP</th>
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<td>4204H</td>
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<td>HEAVY DUTY T-PROP SW - 0.95M + 1.35M (T2) - CW 400MM LSREADER</td>
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<tr>
<td>4204H</td>
<td>T3</td>
<td>HEAVY DUTY T-PROP SW - 1.00M + 1.50M (T3) - CW 400MM LSREADER</td>
<td>37 Kg</td>
</tr>
<tr>
<td>4204H</td>
<td>T4</td>
<td>HEAVY DUTY T-PROP SW - 1.30M + 2.10M (T4) - CW 400MM LSREADER</td>
<td>42 Kg</td>
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<tr>
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<td>T5</td>
<td>HEAVY DUTY T-PROP SW - 1.60M + 2.65M (T5) - CW 400MM LSREADER</td>
<td>48 Kg</td>
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HEAVY DUTY YIELDING T-PROP

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T-PROP
ELBROC TEMPORARY SUPPORT PROP
LOAD DEFORMATION

Test Results
MEDIUM DUTY

Test Results
HEAVY DUTY

Test Results
HEAVY DUTY YIELDING
RV 89
RE-USABLE & SACRIFICIAL MINE SUPPORT PROP

APPLICATIONS
- INSTALLED AS ACTIVE BLAST ON SUPPORT AT THE WORK FACE
- APPLICABLE IN TRAVELING WAYS, MONO WAYS, WINCH CHAMBERS, LEDGING RAISES AND STOPE FACES
- SUITABLE TO STOPING HEIGHTS OF 2.3m
- USED WITH BACKFILL
- USED WITH BLAST BARRICADES

BENEFITS
- YIELD LOAD CAN BE VARIED ACCORDING TO CUSTOMER REQUIREMENTS
- RE-USABLE
- REMOTE INSTALLATION
- VARIOUS HEADBOARDS AVAILABLE
- REMOVAL FROM A SAFE DISTANCE
- LIGHTWEIGHT AND EASY TO USE
- CANNOT BE OVEREXTENDED
- ACTIVE SUPPORT ON INSTALLATION

FEATURES
- DIAMETER OF 89mm
- CONTROLLED YIELDING OF THE PROP USING VALVE TECHNOLOGY
- PROVIDES ACTIVE ROOF SUPPORT WITH CONTROLLED YIELDING
- SUPERB ENERGY ABSORPTION
- USES A STANDARD PUMP TO ENERGISE
- CAN BE SUPPLIED WITH HOOKS FOR SAFETY NETS
- COMPLETE WITH TOP AND BOTTOM PLATE

ACCESSORIES

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<tr>
<th>CODE</th>
<th>INSTALLATION LENGTH</th>
<th>CLOSED LENGTH</th>
<th>MAXIMUM YIELD</th>
<th>MASS</th>
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<td>MAX</td>
<td>Meters</td>
<td>Feet</td>
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<td>78&quot;</td>
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<td>330623</td>
<td>1.8</td>
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<td>112&quot;</td>
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WOODED HEADBOARDS

- PUMP
- HAND PUMP
- RESERVOIR PUMP
- HOSES
- RELEASE SLING

- Page 8 -
RV 89
RE-USABLE & SACRIFICAL MINE SUPPORT PROP

Yielding Graph

Test Results

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<th>Force (kN)</th>
<th>0</th>
<th>50</th>
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<tr>
<th>Extension (mm)</th>
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<td>50</td>
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OMNI 89 PROP
RE-USABLE & SACRIFICIAL MINE SUPPORT PROP

APPLICATIONS
- INSTALLED AS ACTIVE BLAST ON SUPPORT AT THE WORK FACE
- APPLICABLE IN TRAVELLING WAYS, MONO WAYS, WINCH CHAMBERS, LEDGING RAISES AND STOPE FACES
- 20 TON SUITABLE TO STOPING HEIGHTS OF 2m
- 10 TON SUITABLE TO STOPING HEIGHTS OF 3.2m
- USED WITH BACKFILL
- USED WITH BLAST BARRICADES

BENEFITS
- RESILIENT IN ROCKBURST CONDITIONS
- ACCOMMODATE NUMEROUS SEISMIC EVENTS
- YIELD LOAD CAN BE VARIED ACCORDING TO CUSTOMER REQUIREMENTS
- RE-USABLE
- VARIOUS HEADBOARDS AVAILABLE
- REMOTE INSTALLATION
- REMOVAL FROM A SAFE DISTANCE
- LIGHTWEIGHT AND EASY TO USE
- CANNOT BE OVEREXTENDED
- ACTIVE SUPPORT ON INSTALLATION
- HOOKS ATTACHED FOR SAFETY NETS

FEATURES
- DIAMETER OF 89mm
- CONTROLLED YIELDING OF THE PROP USING VALVE TECHNOLOGY
- PROVIDES ACTIVE ROOF SUPPORT WITH CONTROLLED YIELDING
- SUPERB ENERGY ABSORPTION
- USES A STANDARD PUMP TO ENERGISE
- SUPPLIED WITH HOOKS FOR SAFETY NETS
- COMPLETE WITH TOP AND BOTTOM PLATE

ACCESSORIES
- PUMP
- HAND PUMP
- RESERVOIR PUMP
- HOSES
- RELEASE SLING

WOODEN HEADBOARDS

<table>
<thead>
<tr>
<th>CODE</th>
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<th>MAXIMUM YIELD</th>
<th>MASS</th>
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<td>FEET MIN MAX</td>
<td>METERS FEET</td>
<td>KG</td>
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<td>2’8” - 3’4”</td>
<td>0.69</td>
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</tr>
<tr>
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<td>0.9 - 1.2</td>
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<td>3</td>
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<td>3’11” - 5’1”</td>
<td>1.02</td>
<td>19</td>
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<tr>
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<td>1.3 - 1.8</td>
<td>4’0” - 5’3”</td>
<td>1.22</td>
<td>22</td>
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<tr>
<td>5</td>
<td>1.4 - 2.0</td>
<td>4’7” - 6’7”</td>
<td>1.37</td>
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<tr>
<td></td>
<td>METERS MIN MAX</td>
<td>FEET MIN MAX</td>
<td>METERS FEET</td>
<td>KG</td>
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<tr>
<td>1</td>
<td>0.8 - 1.0</td>
<td>2’8” - 3’4”</td>
<td>0.69</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>0.9 - 1.2</td>
<td>3’0” - 1’11”</td>
<td>0.87</td>
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<tr>
<td>3</td>
<td>1.2 - 1.5</td>
<td>3’11” - 4’11”</td>
<td>1.02</td>
<td>19</td>
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<tr>
<td>4</td>
<td>1.3 - 1.8</td>
<td>4’0” - 5’3”</td>
<td>1.22</td>
<td>22</td>
</tr>
<tr>
<td>5</td>
<td>1.4 - 2.0</td>
<td>4’7” - 6’7”</td>
<td>1.37</td>
<td>25</td>
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</tbody>
</table>

OMNI 89 10 TON

OMNI 89 20 TON

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OMNI 89 PROP

RE-USABLE & SACRIFICIAL MINE SUPPORT PROP

20 TON DYNAMIC GRAPH

Peak Force: 255.0446 kN
Peak Velocity: 2.444651 m/sec
Average Acceleration: 18.51 m/sec²

10 TON DYNAMIC GRAPH

Peak Force: 134.9528 kN
Peak Velocity: 2.272595 m/sec
Average Acceleration: 36.99 m/sec²
OMNI 127 PROP
RE-USABLE & SACRIFICIAL MINE SUPPORT PROP

APPLICATIONS
- INSTALLED AS ACTIVE BLAST ON SUPPORT AT THE WORK FACE
- APPLICABLE IN TRAVELLING WAYS, MONO WAYS, WINCH CHAMBERS, LEDGING RAISES AND STOPE FACES
- TUNNEL SUPPORT
- SUITABLE TO STOPING HEIGHTS OF 4.5 METER
- USED FOR PILLAR REHABILITATION
- USED WITH BACKFILL
- USED WITH BLAST BARRICADES

BENEFITS
- RESILIENT IN ROCKBURST CONDITIONS
- ACCOMMODATE NUMEROUS SEISMIC EVENTS
- YIELD LOAD CAN BE VARIED ACCORDING TO CUSTOMER REQUIREMENTS
- RE-USABLE
- REMOTE INSTALLATION
- VARIOUS HEADBOARDS AVAILABLE
- REMOVAL FROM A SAFE DISTANCE
- LIGHTWEIGHT AND EASY TO USE
- CANNOT BE OVEREXTENDED
- ACTIVE SUPPORT ON INSTALLATION
- HOOPS CAN BE ATTACHED FOR SAFETY NETS

FEATURES
- DIAMETER OF 127mm
- CONTROLLED YIELDING OF THE PROP USING VALVE TECHNOLOGY
- PROVIDES ACTIVE ROOF SUPPORT WITH CONTROLLED YIELDING
- SUPERB ENERGY ABSORPTION
- USES A STANDARD PUMP TO ENERGISE
- SUPPLIED WITH HOOPS FOR SAFETY NETS
- COMPLETE WITH TOP AND BOTTOM PLATE

ACCESSORIES
- Pump
- Hoses
- Hand Pump
- Reservoir Pump
- Release Sling

<table>
<thead>
<tr>
<th>CODE</th>
<th>INSTALLATION LENGTH</th>
<th>CLOSED LENGTH</th>
<th>MAXIMUM YIELD</th>
<th>MASS</th>
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OMNI 127 PROP
RE-USABLE AND SACRIFICIAL MINE SUPPORT PROP

LOAD DEFORMATION

Peak Force: 394.0129 kN
Peak Velocity: 1.768131 m/sec
Average Acceleration: 17.59 m/sec²
OMNI 150 PROP
RE-USABLE & SACRIFICIAL MINE SUPPORT PROP

APPLICATIONS
- INSTALLED AS ACTIVE BLAST ON SUPPORT AT THE WORK FACE
- APPLICABLE IN TRAVELLING WAYS, MONO WAYS, WINCH CHAMBERS, LEDGING RAISES AND STOPE FACES
- TUNNEL SUPPORT
- USED FOR PILLAR REHABILITATION
- USED WITH BACKFILL
- USED WITH BLAST BARRICADES
- CONSTRUCTION OF SETS FOR FRIABLE GROUND IN ALL TUNNELS FROM 1m TO 6m

BENEFITS
- ACCOMMODATE NUMEROUS SEISMIC EVENTS
- BLAST ON PROP AT THE WORK FACE
- LOAD CAN BE VARIED ACCORDING TO ROCK CONDITIONS OR AS REQUIRED
- AVAILABLE IN 20 ton, 40 ton
- COLOUR CODED FOR PROP IDENTIFICATION
- CAN BE RE-INSTALLED
- SUITABLE TO USE WITH BLAST BARRICADES
- REMOTE INSTALLATION
- REMOVAL FROM A SAFE DISTANCE
- VARIOUS HEAD BOARDS AVAILABLE
- SETS CAN BE ATTACHED TO EXISTING OMNI PROPS FOR DETERIORATING CONDITIONS
- HOOKS ATTACHED FOR SAFETY NETS
- USED WHERE ACTIVE SUPPORT IS REQUIRED ON INSTALLATION.
- CANNOT BE OVEREXTENDED

FEATURES
- DIAMETER OF 150mm
- INSTALLATION LENGTHS FROM 1m TO 6m+
- PROVIDES ACTIVE ROOF SUPPORT WITH CONTROLLED YIELDING
- SUPERB ENERGY ABSORPTION
- USES A STANDARD PUMP TO ENERGISE
- COMPLETE WITH TOP AND BOTTOM PLATE
- RESILIENT TO ROCK BURST CONDITIONS

ACCESSORIES
- Pump
- Hoses
- Hand Pump
- Reservoir Pump
- Release Sling

### 20 TON PROP

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<tr>
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### 40 TON PROP

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</table>
OMNI 150 PROP
RE-USABLE & SACRIFICIAL MINE SUPPORT PROP

LOAD DEFORMATION

Peak Force: 314.4141 kN
Peak Velocity: 2.444661 m/sec
Average Acceleration: 13.58 m/sec²
XT150 PROP

SACRIFICIAL FRICTION MINE SUPPORT PROP

APPLICATIONS
- ACTIVE SUPPORT IN STOPE WORK FACES, HAULAGES, TUNNELS AND X-CUTS
- CONSTRUCTION OF SETS FOR FRIABLE GROUND IN ALL TUNNELS
- FROM 1m TO 6m
- SACRIFICIAL PROP

BENEFITS
- ACCOMMODATE NUMEROUS SEISMIC EVENTS
- BLAST ON PROP AT THE WORK FACE
- CONTROLLED YIELDING AT 20 ton
- SUPERB ENERGY ABSORPTION
- PRE-STRESSED UNIT ATTACHED TO ACHIEVE LOAD
- SETS CAN BE ATTACHED TO EXISTING OMNI PROPS FOR DETERIORATING TUNNEL CONDITIONS
- CANNOT BE OVEREXTENDED
- VARIOUS HEADBOARDS AVAILABLE

FEATURES
- DIAMETER OF 150mm
- INSTALLATION LENGTHS FROM 1m TO 6m
- PROVIDES ACTIVE ROOF SUPPORT WITH CONTROLLED YIELDING
- USES A STANDARD PUMP TO ENERGISE THE PSU
- RESILIENT TO ROCK BURST CONDITIONS
- LIFTING TOOL AVAILABLE TO INSTALL THE PROP

ACCESSORIES
Lifting Tool
Hand Pump
Reservoir Pump
Wooden Headboards

<table>
<thead>
<tr>
<th>CODE</th>
<th>INSTALLATION LENGTH</th>
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XT150 PROP
SACRIFICIAL FRICTION MINE SUPPORT PROP

LOAD DEFORMATION

LOAD DEFORMATION FOR DYNAMIC TEST

(DYNAMIC ZONE BETWEEN 100mm AND 300mm DEFORMATION)
RB 80 PROP SYSTEM
HYDRAULIC MINE SUPPORT PROP

APPLICATIONS
- Seismically Active Areas
- Blast on Support for All Stope Faces
- Pillar, Remnant Mining Conditions

BENEFITS
- Accommodate Numerous Seismic Events
- Hanging Wall Supported During the Blast
- Improves Safety on the Face During Re-Entry, Cleaning and Drilling Operations
- Blast on Prop Installed Close to the Stope Face
- Suitable to Use with Blast Barricades
- Various Extension Pieces Available for Variable Stopping Heights
- Remote Installation from a Safe Distance
- No Pre Blast Removal or Post Blast Installation Required
- Various Headboards Available
- Reduces Waste Dilution
- Assists for Stopping Width Control
- Cost Effective

FEATURES
- Extension Pieces are Conical Shaped for Perfect Fit
- Provides Active Roof Support with Controlled Yielding
- Superb Energy Absorption
- Exceeds Industry Benchmark of 3m/sec
- Safe Remote Installation from 5m Using a 6B Pump and Filler Pistol
- Suitable with Backfill Operations
- Corrosion Resistant
- Eyelet Built into the Prop to Secure Together During Mining Operations
- Resilient to Rock Burst Conditions
- Spherical Foot Piece Available for Uneven Hanging and Foot Wall

ACCESSORIES

<table>
<thead>
<tr>
<th>Conical Extensions</th>
<th>Off Centre Load Spreader</th>
<th>Centre Load Spreader</th>
<th>Tri-Spreader</th>
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<td>150mm</td>
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</table>

- 6B Pump
- Filler Pistol
- Filler Pistol & Hose
- Release Tool

- Page 18 -
RB 80 PROP SYSTEM
HYDRAULIC MINE SUPPORT PROP

LOAD DEFORMATION

Peak Force: 438.5653 kN
Peak Velocity: 2.933599 m/sec
Average Acceleration: 32.74 m/sec²
TH PROFILE SETS

RING SET
- In standard arch lengths from 1.8m up to 5.5m
- Suitable in high pressure tunnels

SEMI ARCH SET
- Used in rectangular and square excavations and offers maximum deflection resistance.

HALF ARCH SET
- Used in poor ground conditions and unsure pressures.

TH ARCH SET SUPPORT SYSTEMS

APPLICATIONS
- TUNNEL JUNCTIONS
- OVER AND UNDER ORE PASSES
- HAULAGES
- INCLINE SHAFT PORTALS
- YIELDING SUPPORT THROUGH BAD GROUND CONDITIONS, DYKES, FAULTS & FRIABLE GROUND
- SUITABLE FOR ALL ROCK OR SOIL TYPES

BENEFITS
- SIMPLE AND FAST INSTALLATION
- VERY HIGH LOAD CARRYING CAPACITY
- LONG OPERATIONAL LIFE
- COST EFFECTIVE
- DIMENSIONAL AND DESIGN FLEXIBILITY
Mechanical Properties

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<th>Standard or/and customer specification</th>
<th>Yield Strength Re min N/mm²</th>
<th>Tensile Strength Rm min N/mm²</th>
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<td>TH 44</td>
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Chemical Composition

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<th>P max %</th>
<th>N max %</th>
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<td>0.80 - 1.10</td>
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Profile TH29, Material 31Mn4
Bending test which complies with the standard DIN-21530

Profile TH34, Material 31Mn4

Vertical Load Trf
Radius of the metallic arch M

THV Section
PRESTRESSED YIELDING ARCH

TUNNEL SUPPORT

BENEFITS
- SIMPLE AND FAST INSTALLATION
- HIGH LOAD CARRYING CAPACITY
- LONG OPERATIONAL LIFE
- ACTIVE YIELDING SUPPORT BY THE ARCH SET USING HYDRAULIC PROP TECHNOLOGY
- COST EFFECTIVE
- DIMENSIONAL AND DESIGN FLEXIBILITY
- SUITABLE FOR VARIOUS EXCAVATION HEIGHTS & WIDTHS
- REDUCED CRIBBING REQUIRED

APPLICATIONS
- TUNNEL JUNCTIONS
- OVER AND UNDER ORE PASSES
- HAULAGE
- SHAFT PORTALS
- ACTIVE SUPPORT THROUGH BAD GROUND CONDITIONS, DYKES, FAULTS AND FRIABLE GROUND
REMOTE DRILL RIG

APPLICATIONS
- ALL TUNNELS IN HARD ROCK MINES
- SECONDARY SUPPORT FOR ROOF BOLT AND ANCHOR INSTALLATIONS

BENEFITS
- ROBUST DRILL RIG FOR LONG TERM OPERATIONS
- REDUCED NOISE LEVEL DUE TO OPERATORS DISTANCE FROM THE RIG
- ACCURATE DRILLING DUE TO STABILITY OF THE RIG
- DRILL RIG SUITABLE FOR VARIOUS HEIGHTS
- EASY TO TRANSPORT
- MODULAR DESIGN FOR EASE OF REPAIR AND LOW REPAIR COST
- SELECTION OF ROCK DRILL CRADLES AVAILABLE
- COMPREHENSIVE TRAINING SUPPLIED

FEATURES
- BUILT IN ST/INGER FOR STABILITY DURING DRILLING OPERATIONS
- BUILT IN LUBRICATOR ATTACHED TO THE RIG
- LARGE WHEELS FOR EASE OF TRANSPORT
- OPERATED FROM A SAFE DISTANCE OF 5m
- EXTENSIONS AVAILABLE FOR VARIOUS TUNNEL HEIGHTS UP TO 5.3m

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<th>HEIGHT TO</th>
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</table>

INCLUDES CONTROL BOX AND HOSES

Other sizes available on request
FEATURES

- HAND AND AIR OPERATED MODELS
- CAN BE USED IN ANY ENVIRONMENT
- HAND PUMP IS PARTICULARLY WELL SUITED TO REMOTE SITES

BENEFITS

- ROBUST
- USER-FRIENDLY
- LIGHTWEIGHT - EASY TO TRANSPORT
- TOTALLY RELIABLE, REQUIRING LITTLE MAINTENANCE
- EASY TO STRIP AND CLEAN
- ENSURES EXCELLENT PRODUCTIVITY AND SAFETY BENEFITS
- ONLY THE HIGHEST QUALITY STANDARDS ARE ADHERED TO DURING THE MANUFACTURING PROCESS.

Pump output capacity: 70 Litres per minute
Line Pressure: 400 kPa
Weight: 30 kilograms
Power Source: Hand or Air operated
Dimensions: 940 L x 570 H x 420 W
Mixing tank Capacity: 70 Litres
Elbroc products have been sold to all deep level mines particularly where high seismic and dangerous ground conditions are found. Clients include the following:

- Anglo Coal group of mines
- Anglo Platinum group of mines
- AngloGold Ashanti group of mines
- Cullinan Diamond Mine (Pty) Ltd
- DRD Gold SA group of mines
- GoldOne (Rand Uranium)
- Goldfields South Deep mines
- Grinaker - LTA
- SibanyeGold (Goldfields)
- East Driefontein Group of mines
- SibanyeGold (Goldfields)
- Kloof group of mines
- Harmony group of mines
- Impala Platinum
- International Ferro Metals
- Jindal Mining South Africa
- Lorbrand
- Mondi Imbani Mining Supplies
- Western Areas Joint Venture
- Samancor Eastern Chrome
- SASOL Mining (Pty) Ltd
- Simmer & Jack group of mines
- Welprop Mining Services
- Xstrata/ Glencore Platinum
- Gem Diamond Botswana
- Lubambe Copper Zambia
- Heintzmann Corporation USA
- Jennmar Corporation USA
- JSC Buryatzoloto, Ulan-Ude, Russia
- Prima CiptaKarya PT, Indonesia
- Strata Mine Services Inc. USA