

BLASTING OPTIMISATION

Introducing the
MYDO Sonic Tamping Lock Plug
A South African Invention

“SONIC SOCKET ELIMINATOR”

Maximize – Don't vapourise!

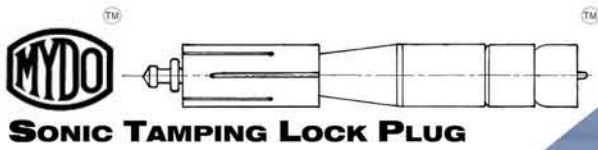
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THE MYDO SONIC TAMPING LOCK PLUG AND TOOLS
ARE PROTECTED BY THE FOLLOWING:
PATENT PENDING: 20006548; 20011116; 20015372
DESIGN REGISTRATIONS: F2002/00187; F2002/00188;
F2002/00189; F2002/00190; F2002/00191; F2002/00192;
F2004/1755; F 2004/22471; F 2004/22472



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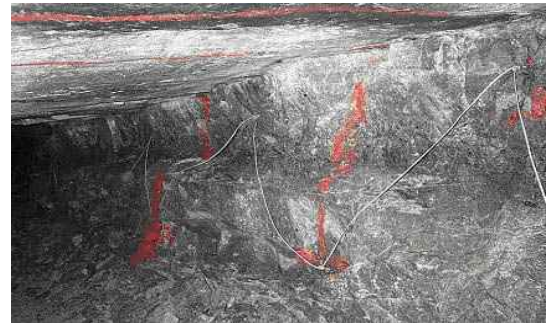
Introducing the
**MYDO Sonic
Tamping Lock Plug**
A South African Invention

The MYDO Sonic Tamping Lock Plug is suitable for holes drilled with 34mm to 40mm diameter drill bits using standard 5mm diameter fuse. The MYDO Sonic Tamping Lock Plug will after fitment, automatically lock and seal against the pressure.

The MYDO fitting tool is simple, light weight and robust, requiring no service. Markings in 100mm lengths, enables it to be used as a measuring stick and depth gauge.



The red point of the MYDO Sonic Tamping Lock Plug, visible in the hole – just beyond the fractured zone.



The MYDO Sonic Tamping Lock Plugs in place - ready for blasting.



No sockets left on the face after the blast using MYDO Sonic Tamping Lock Plugs and Magnum 365 explosive. A coarse fragmentation overall, with relatively no broken rock in the first metre from the face.



The broken rock pile is spread relatively evenly between the face and the barricade with a wide range of size distribution.

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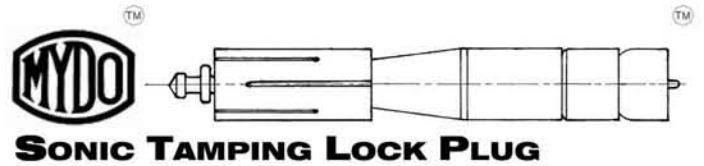


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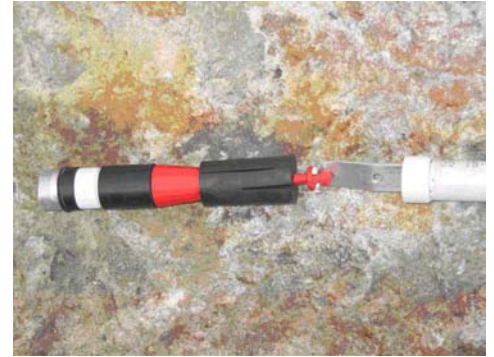
Advantages of the MYDO Plugs

Cost effective

The MYDO plugs make it possible to regularly produce substantially more ore per hole blasted. The cost of the MYDO plugs becomes insignificant compared to the gains achieved.

Mining advantages

The control over the position of the MYDO plugs allows the miner to regulate the size of the ore produced and its distribution to the barricade. If the miner's positioning of the MYDO plugs is "spot on" it is possible to get a face advance beyond the drilled holes, eliminating sockets and reducing the barring required.



Easy to use

Fitting the MYDO plug is a fast, simple operation using the MYDO fitting & removal tool. The plugs are locked at the exact depth in the hole and do not rely on the explosive to fix the stemming position. No special skill, training or strength is required to fit the MYDO plugs. The detonation of the explosive opens the MYDO plug's main seal.



Easy to check

The supervisor merely has to look down the hole with his miner's light to see if the MYDO plug is locked in the correct position.

Easy to reposition

If the MYDO plug has been locked in the wrong position, it's a simple job to bump the fitted plug loose, reposition it and lock it tight. This can be done in a matter of seconds with the MYDO fitting and removal tool.

Easy to carry

The MYDO plugs are pre-assembled light units transported in a cardboard box containing 50 plugs (total 5.7kg).

Easy to store and distribute

For easy storage and distribution, the MYDO plugs are packed in cardboard boxes containing 50 MYDO plugs. It is suggested that underground the quantity required for the shift is stored with the explosive.

Safe to use

The MYDO plugs are not a fire hazard and are not capable of spontaneous combustion. They are made in a combination of Poly-prop, PVC & aluminium, all currently in use at the mine face. In addition, flame retardant ADJ016 will be added to the Poly-prop, and SABS 502 method of flame retardant will be used in the PVC. These components would need a constant fire to ignite them and sustain a burn.

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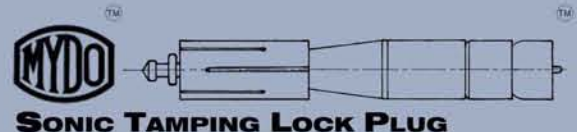
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Actual Blast Results

Comparison between mine standard blast results & results achieved using the MYDO plug

| Date | Site | Qty Test Blasts | Mydo Blast Adv | Mine's Avg Adv | % Add Advance |
|------------------------|--------------------------------|-----------------|----------------|----------------|---------------|
| 29 Sept to 1 Oct 2003 | GOLD MINE _ EAST RAND | 3 | 0.679 m | 0.408 m | 66.42% |
| 1 - 5 August 2005 | LONMIN - KAREE MINE - STOPES | 6 | 1.143 m | 0.800 m | 42.92% |
| | LONMIN - KAREE MINE - HAULAGE | 1 | 2.150 m | 1.550 m | 38.71% |
| 29 Aug - 3 Sept 2005 | LONMIN - KAREE MINE - STOPES | 1 | 1.700 m | 1.400 m | 21.43% |
| 15 - 17 Sept 2005 | LONMIN - KAREE MINE - HAULAGE | 3 | 1.963 m | 1.550 m | 26.67% |
| 28 - 30 Sept 2005 | LONMIN - LIMPOPO | 4 | 1.988 m | 1.575 m | 26.19% |
| 6 Oct - 5 Nov 2006 | LONMIN - LIMPOPO - HAULAGE | 22 | 1.186 m | 0.982 m | 20.83% |
| 12 Jan - 2 Feb 2006 | LONMIN - LIMPOPO - HAULAGE | 23 | 2.061 m | 1.604 m | 28.46% |
| 8 - 18 Mar 2006 | SOUTH DEEPS 95 - HAULAGE | 3 | 2.050 m | 1.443 m | 42.03% |
| 17 - 30 Mar 2006 | T.G.M.E. | 3 | 1.500 m | 1.300 m | 15.38% |
| 10 - 12 April 2006 | KROON DAL | 3 | 1.360 m | 1.000 m | 36.00% |
| 27 April - 25 May 2006 | RPM - TOWNLANDS | 19 | 0.961 m | 0.806 m | 19.27% |
| 15 - 19 May 2006 | RPM - TOWNLANDS - HAULAGE | 2 | 2.250 m | 1.810 m | 24.31% |
| 15 May to 17 May 2006 | T.G.M.E. | 3 | 1.867 m | 1.667 m | 12.00% |
| 13 - 16 June 2006 | AQUARIUS | 3 | 2.027 m | 1.600 m | 26.67% |
| 22 - 24 June 2006 | HARMONY - HALAGE | 3 | 2.300 m | 2.050 m | 12.20% |
| 11 - 13 July 2006 | LONMIN - LIMPOPO - STOPES | 3 | 1.133 m | 1.000 m | 13.33% |
| 16 - 20 July 2006 | AQUARIUS | 5 | 1.840 m | 1.530 m | 20.26% |
| August 2006 | RPM - TOWNLANDS | 22 | 0.937 m | 0.800 m | 17.10% |
| August 2006 | AQUARIUS | 18 | 1.884 m | 1.525 m | 23.57% |
| 30 Aug - 15 Sept 2006 | SIMMER & JACK - BUFFELSFONTEIN | 4 | 0.775 m | 0.550 m | 40.91% |
| 15 Sept 2006 | SIMMER & JACK - BUFFELSFONTEIN | 1 | 0.883 m | 0.641 m | 37.75% |
| 6- 19 Sept 2006 | SIMMER & JACK - BUFFELSFONTEIN | 4 | 0.861 m | 0.644 m | 33.70% |
| March - June 2007 | SIMMER & JACK - BUFFELSFONTEIN | 414 | 0.845 m | 0.641 m | 31.83% |
| March - June 2007 | Modikwa Platinum - South Shaft | 720 | 1.095 m | 0.650 m | 68.46% |
| | | 1293 | 37.44 m | 29.53 m | 29.86% |



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