Non-electric Detonators

GENERAL SURVEY

Austin Detonator non-electric delay detonators are designed to provide the precise control and accuracy for blasting in surface mines, underground metal and non-metal, and construction sites where the risk of ignition of the explosive air-methane or air-coal dust mixtures does not exist.

SHOCKSTAR NON-ELECTRIC DETONATORS CONSIST FROM

- Instantaneous, millisecond and long delay in-hole detonators (with or without „T“ connector).
- Surface delay detonator with SHOCKSTAR connector.
- Instantaneous and delay detonator with SHOCKSTAR BUNCH CONNECTOR.
- Austin STARTUBE and SHOCKSTAR STARTLINE.

BENEFITS

- 720 mg base charge.
- High impact protection.
- Excellent delay time accuracy ensures greater than 99% probability of in-sequence initiation.
- Manufactured with yellow Shock tubing for easy differentiation from surface detonators when inspecting the connected blast pattern.
- Easy shock tube connection, locking mechanism to ensure locking of the tubes in the block if needed. Capacity of 8 Shock tubes.
- Color coded connectors according to the delay time of the detonator.
- T-connector can be provided on all in-hole detonators for rapid and easy connection to detonating cord.
- Initiating signal is transmitted at a constant velocity of 2,000 m/s and noiselessly passes also through kinks, knots and sharp bends of Shock tube without disrupting the explosive column.
SHOCKSTAR SPECIFICATIONS AND APPLICATIONS

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<tr>
<td>SHOCKSTAR SURFACE</td>
<td>Delay time / block color: • 0 ms / Green • 9 ms / Brown • 17 ms / Yellow • 25 ms / Red • 33 ms / Grey • 42 ms / White • 67 ms / Blue • 100 ms / Black • 200 ms / Orange</td>
<td>Specially designed to provide connection of surface initiation network and relay of initiation signal to the next shock tubes. This unit is designed for initiation of Shock tubes only.</td>
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<td>SHOCKSTAR BUNCH CONNECTOR</td>
<td>Detonator with special design which allow initiation of detonating cord placed in a special connector block.</td>
<td>This connector/detonating cord assembly is used especially in tunnel blasting. And is designed for reliable initiation of up to 20 Shock tubes.</td>
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<td>SHOCKSTAR MS</td>
<td>In-hole millisecond detonator available in 30 delays: • delays 1-20; interval 25 ms • delays 21-30; interval 50 ms • includes instantaneous 0 ms</td>
<td>The most complete in-hole millisecond delay system designed for initiation of cap sensitive explosives or boosters. „T“ connector provides fast and easy connection to detonating cord.</td>
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<tr>
<td>SHOCKSTAR TS</td>
<td>In-hole detonator available in 40 delays: • delay 0 = 25 ms • delay 1 - 10 interval 50 ms • delay 11 - 12 interval 100 ms • delay 14 - 20 interval 200 ms • delay 25 - 90 interval 500 ms</td>
<td>Designed for use in underground mines as well as tunnels, shafts, trenches and other surface work where long delays are required to provide sufficient time for rock movement.</td>
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<td>SHOCKSTAR DUAL DELAY</td>
<td>Combination of SHOCKSTAR SURFACE (nominal delays 25 and 100 ms) and SHOCKSTAR MS or SHOCKSTAR TS (nominal delays 475, 500 and 9000 ms).</td>
<td>Designed for use in surface applications for bench blasting or underground applications.</td>
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<td>SHOCKSTAR STARTLINE</td>
<td>SHOCKSTAR SURFACE 0 ms – length 50, 100, 400, 600 and 800 m.</td>
<td>Factory-spooled tubing with a SHOCKSTAR SURFACE 0 ms connector for starting of initiation network.</td>
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<tr>
<td>STARTUBE</td>
<td>Shock tube available in 400, 600, 800 and 3000 m on the spool.</td>
<td>Factory-spooled tubing for starting of initiation network.</td>
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**STORING**

Detonators must be stored in an approved magazine located to conform to state and local laws and regulations. The storage place should be well built, well air-conditioned, clean, dry, fire resistant and securely locked when not in use. Detonators should never be stored in the same magazine with other explosives.

Contact your local Austin Powder representative for further information.

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