

# Shock★Star TS

PRODUCT INFORMATION BROCHURE

**Shock★Star TS** detonator products are available in a sequence of 40 delays from 25 ms to 9,000 ms.

Austin's TS delay sequence is appropriate for applications such as tunnelling and shaft or raise mining, where long delays are required between holes to allow for the movement of broken rock.

They are designed to be used as in-hole detonators for the initiation of cast boosters and high explosives. In-hole detonators may be equipped with a T-connector for compatibility with detonating cord initiation.



## BENEFITS

- 720 mg base charge.
- High impact protection.
- Manufactured with a bright yellow Shock Tube for high visibility.
- Excellent delay time accuracy ensures a greater than 99% probability of in-sequence initiation.

## DELAY SEQUENCE

<b>Delay #</b>	<b>0</b>	<b>1</b>	<b>1<sup>1/2</sup></b>	<b>2</b>	<b>2<sup>1/2</sup></b>	<b>3</b>	<b>3<sup>1/2</sup></b>	<b>4</b>
Nominal delay (ms)	25	100	150	200	250	300	350	400
<b>Delay #</b>	<b>4<sup>1/2</sup></b>	<b>5</b>	<b>5<sup>1/2</sup></b>	<b>6</b>	<b>6<sup>1/2</sup></b>	<b>7</b>	<b>7<sup>1/2</sup></b>	<b>8</b>
Nominal delay (ms)	450	500	550	600	650	700	750	800
<b>Delay #</b>	<b>8<sup>1/2</sup></b>	<b>9</b>	<b>9<sup>1/2</sup></b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>14</b>	<b>16</b>
Nominal delay (ms)	850	900	950	1,000	1,100	1,200	1,400	1,600
<b>Delay #</b>	<b>18</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>	<b>50</b>
Nominal delay (ms)	1,800	2,000	2,500	3,000	3,500	4,000	4,500	5,000
<b>Delay #</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
Nominal delay (ms)	5,500	6,000	6,500	7,000	7,500	8,000	8,500	9,000



## AUSTIN POWDER

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## TECHNICAL DESCRIPTION

<b>Detonator</b>	
Detonator shell material	Aluminum
Base charge	720 mg
Water pressure resistivity	0.3 MPa / 7 days
Temperature range for application	from -30 °C to +60 °C
Shelf life (storage conditions)	2 years (-30 °C to +40 °C, R.H. max. 65%) in original, sealed package
Label marking	Delay #, Detonator type, Delay ms, ST length, Data matrix code (traceability)
Notified body	CE 0589
<b>Shock Tube</b>	
Velocity of detonation	2,000 ± 100 m/s
Color	Yellow

## PACKAGING DETAILS

Shock Tube length (m)	Packaging 1.4S UN 0500		
	Units per Bag	No. of Bags	Units per Carton
4.8	20	4	80
6.0	10	7	70
7.8	10	5	50

Packaging: Cardboard carton of outer dimension 390x235x295mm

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## AUSTIN POWDER

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