

SmartShot

**Technical
Information**



Description

SmartShot is the latest advancement in Dyno Nobel's suite of precise electronic initiation systems. The SmartShot system offers innovative features including wireless remote blasting and complete timing flexibility. Specialised waterproof and dirt displacing connectors ensure quick, easy and reliable connections, and prevent leakage.

SmartShot Detonator

To hook up, the male connector of one unit simply snaps into the female connector of the next unit, and so on, along a row.

SmartShot Base Station

Used to initiate the blast remotely from a safe distance. The PIN protected SmartKey must be docked in the Base Station to arm and fire the shot.

SmartShot Bench Box

The receiver unit that allows remote firing via radio frequency from the Base Station, passing the signal onto the detonators in order to initiate the blast.

String Starter

Connected between the blast and the Bench Box to interface 2-wire with 4-wire communication. It will also assist in identifying any faults.

End Plug

Connected to the end of each string to indicate the end of a string to the control equipment

SmartShot Tagger

Hand-held unit to test and assign timings to individual detonators and defines the hole configuration.

SmartShot Detonators

Downline x Surface Length Metres	Units per case	Packaging Dimensions	Shipping Classification
10 x 7	18	480 x 215 x 245mm	1.4S
20 x 10	18	480 x 215 x 245mm	1.4S
20 x 15	18	480 x 215 x 245mm	1.4S
25 x 0.2	18	480 x 215 x 245mm	1.4S
35 x 0.2	18	480 x 215 x 245mm	1.4S
45 x 0.2	18	480 x 215 x 245mm	1.4S
60 x 0.2	8	480 x 215 x 245mm	1.4S
80 x 0.2	6	480 x 215 x 245mm	1.4S

SmartShot

Technical Information



SmartShot Accessories

	Units per case	Dimensions of Packaging (millimetres)
SmartShot Base Station	1	523 x 375 x 260mm
SmartShot Bench Box	1	523 x 375 x 260mm
String Starters & End Plugs	10	200 x 165 x 92mm
Smart Keys	1	146 x 86 x 38mm
Tagger Lite	1	300 x 250 x 140mm
Connection Block and Cable	1	200 x 165 x 92mm

Properties

System Limits

Maximum Total Delay Time	20 000 milliseconds
Maximum Number of Detonators	1600*
with expansion block	2400*
Lead-in Length (wireless)	3000m*
Lead-in Length (wire)	2000m*
Maximum In-hole Lead Length	80m / 260ft

* Dependant on shot layout, please refer to training manual before use

Detonator

Dynamic Shock Resistance	>12,000psi 500ns pulse width
ESD Resistance	Passes EN 13763-13
RF Immunity	Passes CEN TS 13763-27
Detonator Shell	Copper
Detonator Strength	8D (I.M.E.:#12) Strength
Base Charge	PETN
Net Explosives Quantity (NEQ)	0.1KG (0.2205 lbs.) per 100 detonators
Timing	Fully programmable and Auto-programmable
Connector	Rugged, water resistant
Tensile Strength	>250 N / 56 lbs
Detonator Shell Marking	Dangerous – Blasting Cap – Explosive Danger – Detonator – Explosif

Packaging

UN Shipping Classification	1.4S
Detonator Configurations	Coil
Cable Colour	Green with a coloured stripe

SmartShot

Technical
Information



Safe handling, transportation & storage

First Aid - Detailed first aid information regarding this product is contained on the relevant Dyno Nobel Material Safety Data Sheet.

Safety - All explosives are classified as dangerous goods and can cause personal injury and damage to property if used incorrectly.

Transportation and Storage - All explosives must be handled, transported and stored in accordance with all relevant regulations. Stock should be rotated such that older product is used first.

The information and suggestions contained in this document concern explosive products that should only be dealt with by persons having the appropriate technical skills, training and licence. The results obtained from the use of such products depend to a large degree on the conditions under which the products are stored, transported and used.

While Dyno Nobel makes every effort to ensure the details contained in the document are as accurate as possible, the conditions under which the products are used are not within its control. Each user is responsible for being aware of the details in the document and the product applications in the specific context of the intended use. If technical advice is required in the specific application of the products then you should contact Dyno Nobel for assistance.

Dyno Nobel makes no warranties in relation to the products it sells other than those implied by law. Except to the extent determined by law, Dyno Nobel bears no risk, responsibility or liability arising from the use of the products and the information in this document by the buyer or user of the products.

© Dyno Nobel Asia Pacific Pty Limited. 2009 Reproduction without permission strictly prohibited.

VERSION NO.: 1.0
Last Updated: 11/09

Dyno Nobel Asia Pacific Pty Limited
282 Paringa Road
Gibson Island, Murarrie QLD 4172
Australia

DYNO
Dyno Nobel

Groundbreaking Performance