

STRAFE SCORING TARGET TYPE 590



The MS Instruments PLC Strafe Scoring Target type 590 consists of three sensor arrays mounted a fixed distance apart on a metal framework. The sensor arrays detect the shockwave generated by a supersonic projectile passing through the target area and generate signals from which the X and Y co-ordinates of the position of the shot is calculated.

The elevation and azimuth angles of the projectile are also calculated and are used to remove the parallax error due to the relative displacement between the visible target and the acoustic target planes.

The shot co-ordinates are transmitted to the Control Tower via a UHF Transceiver link for further processing in the Strafing Range Processor.

Since the active target area consists of a vertical plane above the target, the target is mounted above ground, but protected from damage by a berm.

The Strafe Scoring Target type 590 records shot co-ordinates over a target area of up to 20m x 20m.

SPECIFICATION

General		Environment	
Active Target Area	7m x 7m for 7.62mm calibre 20m x 20m for 30mm calibre	Humidity	The units are fully sealed
Measurement accuracy		Operating Temperature	-10 °C to +60 °C
Position	700mm rms or better for azimuth angles of ± 20 degrees and pitch angles of 0 - 25 degrees	Rain	The system operates in light rain
Projectile Velocity (V)	Mach 1.3 to Mach 5 at target	Wind	Fluctuating Wind at the Target affects accuracy
Projectile Calibre	All calibres of a supersonic nature	Dimensions	
Rate of Fire	Up to 6000 rounds per minute	Height x width x length	800mm x 500mm x 2000mm
Power	12v d.c. provided by a sealed lead acid battery	Weight	60Kg

WINATOG OPERATING SOFTWARE

The comprehensive strafe training software provides real-time scoring information to the both the Range Control Officer (RCO) and the system operator. This gives the opportunity for hit or miss data to be communicated to the pilots before their next run, along with any other relevant information. This saves a significant amount of 'wasted' runs where the pilot is unaware that he is missing the target until he has returned to base and the target has been physically inspected.

