

Target System Specifications:

These specifications are for the manufacture, delivery and installation of an all- weather, outdoor firing range computer controlled multiple functions turning target system.

1.0 References

- 1.1 For all sections of these specifications, the manufacturer will provide a list of no less than five clients who currently operate the equipment, materials, devices, and services provided by the manufacturer in response to these specifications.
- 1.2 The list of clients must include current contacts actively using the manufacturers equipment, materials, devices, and services and will include: organization name address and telephone number, personal contact name address and telephone number is different from the organization information.
- 1.3 Manufacturer will provide a toll free number and access to a customer service representative during the RPF process and afterwards if the manufacturer is awarded the contract for installation, and after the installation during the operational life of the installation.
- 1.4 The manufacturer will provide a factory tour if requested.

2.0 Construction, Installation, and Performance

- 2.1 The target system will be produced by the manufacturer on site at the manufacturers plant and not subcontracted out, unless such subcontracting is specified by the manufacturer and accepted by the client. This does not prohibit the manufacturer from purchasing equipment, material, or devices from outside vendors as long as these acquisitions and inclusions to the product are specified in the response.
- 2.2 The target system, computer control software, track runner, installation, and all components required to operate the aforementioned, herein referred to as “the target system”, will be installed by the manufacturer who will supply an on site supervisor to oversee the installation, in addition to installation technicians experienced in the installation of the manufacturer’s product. The manufacturer is responsible for wages and fees associated with the employees provided for the construction and installation of the target system including but not limited to worker’s compensation insurance. The manufacturer will provide certifications of insurance if required by the client. The manufacturer will release the client of all liens associated with the construction, transportation of the target system to the client’s site, and installation of the target system on the client’s site. The manufacture will install and provide a turn-key target system to the client.

- 2.3 The manufacturer will provide all materials needed for the installation, operation, and set up of the target system. Client provided materials, equipment, devices, or services required for the installation must be specified in the response.
- 2.4 The manufacturer will provide training to the client and any designees in the recommended and safe operation of the target system. This training will also include any required user routine maintenance, and troubleshooting. The manufacturer will provide a user manual for the target system that supports the on site training provided by the manufacturer.
- 2.5 The manufacturer will provide certifications to support any claims of armor strength or bullet resistance.
- 2.6 The manufacturer will construct and install the target system in accordance with acceptable construction and installation standards.
- 2.7 The manufacturer will warrant the target system against defects in workmanship, materials, and installation for a minimum of five years. This warranty will not include coverage of damage or system failure due to improper, or misuse of the target system in violation of the manufacturer's user manual or provided training. This warranty will be provided in writing and will bear the manufacturer's signature, or that of an authorized representative.
- 2.8 The manufacturer, if awarded the contract, will provide start and finish dates for the installation of the target system. The manufacturer will remit one percent of the total contract cost to the client for each day past the accepted completion date the project remains unfinished. Delays for weather will not count against the accepted finish date.
- 2.9 Change orders require written notification by the manufacturer and/or client. Acceptance of any change orders must bear the signature of the manufacture and client or their representatives.
- 2.10 Installation space for the system is 130 linear feet. The manufacture will specify the number of target holders/actuators that can be accommodate in this space.
- 2.11 Walk through inspections of the client's installation site may be arranged by appointment.

3.0 Target System Specifications – Target Holder

- 3.1 The target holder frames shall be constructed to hold a wooden framed, cardboard backed standard pistol qualifications target.
- 3.2 The target holder will be equipped with a clamp mechanism to hold a 2x2, or 1x2 lumber target frame. The clamp mechanism will require no tools and will be hand tightened.
- 3.3 The clamp mechanism will be sufficient to hold the wooden target frame in place while the while the target holder is in motion. It will also be

- sufficient to prevent the target frame from be dislodged during high wind conditions.
- 3.4 The target holder will not employ any permanent frame component that extends upward into the impact area of the target.
 - 3.5 The target holder will be all weather and plated or coated with a material designed for long-term anti-corrosion, rust and scratch protection. No plastic or rubber parts are allowed in the target holder construction.
 - 3.6 The target holder will be constructed to resist deformation from stray bullets (standard .38, .357, 9mm, 45ACP).
 - 3.7 The target holder will be designed for multi-direction motion/turning. 90-degree edge/face, pop-up (back to front), and wig-wag (side to side). The target holder design will allow for “on range” set up of the various motion capabilities with a minimum of time and tools. The manufacturer will specify this capability in the response. The manufacture will specify the space requirements for this holder design.
 - 3.8 All substitution proposals will list the equipment proposed in a comparison chart certifying that the substitution is equal to or greater than the specification.
 - 3.9 Substitution proposals will list five clients who are operating the equipment being proposed.

4.0 Target System Specifications – Actuator (s)

- 4.1 The actuator (s) will be an outdoor all-weather design and be constructed of a material, and plated or coated for long-term anti-corrosion, rust and scratch protection. All electrical and power supply connections will be protected from the effect of weather, water, snow, direct sun, and debris from range operations. The actuator (s) and all moving parts will have an all-weather temperature operating range at a minimum of 0 degrees F to 120 degrees F.
- 4.2 The actuator (s) will be self-armored, inherently protected against stray bullet strikes from the shooter’s position. If not self-armored, the actuator may be armor protected. The armor capability shall protect against standard .38 special, .357, 9mm, and .45 ACP.
- 4.3 The actuator (s) will be adjustable to control the edge to face, pop-up, or wag-wag, speed movement of the target frame.
- 4.4 The actuator (s) will have the capability of turning the target frame banks in tandem or individually. The actuator (s) will be capable of turning in tandem the total number or target frames specified within the speed movement limits specified as minimum/maximum
- 4.5 The power source of the actuator (s) will be compressed gas (air, co2, or other inert gas). Compressor or stand- alone tanks can supply the power source.

- 4.6 The power source for the track runner may be electrical (120VAC). All connections must be weather tight and protected from stray bullet strikes.
- 4.7 The actuator (s) will be supplied with a hard-line power source connection and an additional quick connect for stand along tank connection.
- 4.8 The actuator (s) will have a pressure operating range of 20 to 100 psi.
- 4.9 The manufacturer will provide and install compressed gas moisture trap(s) and or lubricator(s) if required for the actuator.
- 4.10 If the actuator (s) mechanism requires periodic lubrication, the manufacture will specify the type of lubrication required and guarantee that the mechanism will function reliably within the operating temperature range specified in 4.1.
- 4.11 The actuator (s) will mount on a concrete pad provided by the client.
- 4.12 The actuators (s) will have a hit counter option.
- 4.13 All substitution proposals will list the equipment proposed in a comparison chart certifying that the substitution is equal to or greater than the specification.
- 4.14 Substitution proposals will list five clients who are operating the equipment that is being proposed

5.0 Target System Specifications – Computer Control Software

- 5.1 The software will be capable of independent, group, and tandem operation of the targets installed per this RFP, including the track runner. The software will be capable of storing and running stored programs
- 5.2 The software will function on commonly available desktop and laptop computers. The manufacturer will specify the operating system requirements.
- 5.3 Access to the software will be password protected.
- 5.4 The software can be customized to show the actual range/target layout. The software will have user programmable functions.
- 5.5 User programming will be password protected.
- 5.6 The software will display the hit counter function option.
- 5.7 The software will have a wireless remote control option allowing full function of the target system from any position on the range shooting deck.
- 5.8 The software will be supplied with on screen tutorial, interactive help, and technical support.
- 5.9 The manufacturer will install, or have the software installed by a qualified technician, and train the client or designee in its' function, operation and required maintenance.

6.0 Target System Specifications – Track Runner

- 6.1 The track runner will be an all-weather installation capable of functioning in temperature ranges of at least 0 degrees F to 120 degrees F. All electrical and mechanical connections, and motors will be weather tight.
- 6.2 The track runner will be mounted to the concrete pad, or wall provided by the client.
- 6.3 The runner trolley will be serviceable with standard hand tools.
- 6.4 The runner will be constructed for operation in high wind conditions.
- 6.5 The runner will operate on standard 120 VAC supply.
- 6.6 The runner will allow for the mounting of wooden target frames identical the target frames used with the target holders with a no tools hand tightening system.
- 6.7 The runner will function from the computer software control, and have a wireless remote control option allowing operation from any position on the range shooting deck.
- 6.8 The runner will be capable of infinite speed control of forward and reverse speeds. Direction changes can be made without stopping.
- 6.9 The runner will allow installation of a 130' continuous track.