

The Tennessee Law Enforcement Training Academy is currently accepting bids for a new turning target and running man system to be installed on the existing range site in Nashville, Tennessee. The system will be installed to accommodate 34 firing lanes. The new system must conform to the current range design with minimum modification. The current target system is comprised of 11 target banks with each bank containing three (3) target systems. Each target bank is centered between two (2) steel support poles with a distance of 15 feet 6 inches between the poles. There is also a single target located at the right end of the target line.

The total price of new system will include all materials, labor, delivery, and installation cost for the new turning target and running man system, as well as the cost for dismantling the existing target system. Dismantling will include but not limited to target stands, connecting rods, actuators, support brackets, bearings, mounting hardware, electrical connections, junction boxes and electrical wiring, pneumatics, buried air tank and line, and running man rail. The total price will also include any needed modifications to the existing site to allow for the proper installation of the new target system. Each turning target mechanism must be mounted directly to the downrange side of the existing concrete knee wall so the mechanism is protected without requiring special forming, excavation or addition of fill material such as dirt or gravel to the existing site.

The target system shall be built to rotate the targets 90 degrees, individually or in various combinations, through the use of a pneumatic system or mechanism, to allow decision-based target presentation. The system shall also include a running man target system. The target system must be programmable for wireless operation to allow for different time settings, sequences and speeds.

TARGET TURNING MECHANISM

1. Each target turning mechanism shall be independently controlled from a wireless remote/keypad.
2. Target turning mechanisms must be able to be turned individually, in banks of three (3) or more, or the complete target line.
3. Each target turning mechanism must be capable of rotating a target frame 90 degrees from an edged position to front position.
4. The turning target mechanism must be able to turn the target from an “edged” position to a “facing” position in ½ second or less.
5. The turning target mechanism must be able to turn the target from a “facing” position to an “edged” position in ½ second or less.
6. The turning target mechanism shall consume no more than 5.5 cubic inches of air per actuation.
7. The target turning mechanism must be waterproof and withstand outdoor weather conditions.
8. The target turning mechanism shall be such that minor repairs may be accomplished by standard range personnel, with the guidance of the manufacturer/service representative, so that the warranty remains intact.
9. All air connections shall be brass quick-connect, push-in air fittings for use with flexible air tubing.

10. The target turning mechanism's housing will be covered with a galvanized or powder coated material.
11. The target turning mechanism's bearings must be sealed and require no maintenance.
12. All steel components must be painted or powder coated black.
13. Each turning target mechanism must be mounted directly to the downrange side of the existing concrete knee wall. The mechanism must be protected without requiring special forms, excavation, or addition of fill material such as dirt or gravel to complete the installation.

TARGET FRAMES

1. Target frames must be constructed by design or material that will eliminate the potential of ricochet toward the firing line.
2. The target frames must be capable of accepting standard wooden target supports to allow the use of cardboard backers.
3. The target frames must accommodate a backer with a minimum width of 22 inches.

PNEUMATIC SYSTEM

1. The pneumatic system compressor must be capable of operating 34 target stations. This compressor must be included with the system.
2. All air hose fittings must be brass quick-connect.
3. All air hoses must be protected by a metal or PVC conduit.
4. All air hoses must be composed of mesh reinforced nylon.

TARGET CONTROL UNIT

1. The control unit must provide wireless remote control of the target system.
2. The control unit must be capable of operating a minimum of 33 targets with individual control of each target.
3. Control unit software must cover a broad range of training requirements as requested.
4. Keypad must feature full sized keys, be moisture resistant, and operate off DC current.
5. Keypad must be portable and lightweight.
6. The receiver for the keypad must be waterproof.

RUNNING MAN SYSTEM

1. The system must be controlled by a programmable wireless remote keypad.
2. The keypad must feature full sized keys, be moisture resistant, and operate off DC current.
3. Keypad must be portable and lightweight.
4. The system must be capable of being programmed to automatically move a target random distances at different speeds once it has been set in motion.
5. The track components must be fabricated from rectangular or round steel tubing.
6. The steel track components must be hot dipped galvanized or powder coated to withstand extreme weather conditions.

7. The system must be capable of sharing the same power supply as the turning target system.
8. The target frame must accept 2" x 2" or 1" x 2" wooden supports.
9. The system must be capable of withstanding prolonged exposure to extreme temperatures, both hot and cold, as well as prolonged exposure to rain and moisture.
10. The system must have sensors at each end of the track to eliminate hard mechanical stops.
11. The system must utilize a steel cable to move the target frame.

MANUFACTURER/INSTALLATION/WARRANTY

1. Manufacturer must provide a toll free telephone number and a dedicated toll-free service number with access to a customer service representative.
2. Target system shall be installed by the manufacturer. Manufacturer must be able to provide a complete installation of the target system by factory trained and certified technicians.
3. All service and repairs shall be performed within a two (2) week or quicker time frame by a factory authorized and certified technician, after receiving notification of request of service or repair. This time frame will be valid during and after the warranty period.
4. Repair parts must be readily available and delivered from the distributor/manufacturer within a five (5) business day period after requested.
5. The entire installed system must include a minimum warranty of two (2) years that covers parts, labor, and installation.