

TRX RADAR AUGMENTED TOW TARGET



Product description

The Parker Meggitt TRX radar-augmented tow target is designed for use with any gun or missile weapons system that requires a radar signature for acquisition, tracking, ranging, guidance or fusing.

The TRX's normally passive radar-augmentation system uses the arrangement of lenses or reflectors to change the target radar signature to effectively emulate a variety of airborne threats.

The TRX also operates within a wide range of bands to meet precision radar signature requirements. Varying Radar Cross Section (RCS) sizes are provided by either the TRX-1 4 passive precision target or through active augmentation. ultra-small, (stealth type) radar characteristics are also available.

To increase the system's value for testing and training, the TRX has the capability to support virtually any current acoustic or doppler radar scoring system.

To help ensure operational flexibility and cost-efficiency, the basic TRX requires no external support equipment. The Parker Meggitt Defense Systems' DHL target loading mechanism and MTL target transporter are optional for support during target buildup, transport and loading.

To ensure multi-mission flexibility, the TRX tow target can be flown with an internal reel and launched in a one-way configuration, or attached to any type of reeling machine and towed behind a commercial or military aircraft

configured for carrying external loads. Also, because of its light structural weight, the TRX can be operated from a sub-scale or full-scale drone aircraft.

The high mission flexibility and low acquisition costs of Parker Meggitt's TRX radar augmented tow target is giving armies and navies around the world an effective tool for ensuring the readiness of their radar-based weapons systems.

Key features and benefits

- Low-cost solution for radar acquisition and tracking and fusing
- Fully compatible with all current acoustic and doppler radar scoring systems
- Configurable RCS augmentation up to 17 square meters (183 square feet) at J band and 10 square meters (108 square feet) at I/X bands
- Monostatic or bistatic radar returns in linear or circular polarization

Applications

- Various



Parker Meggitt Defense Systems
9801 Muirlands Blvd.
Irvine, CA 92618
+1 (949) 465 7700
www.meggittdefense.com

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Specifications

Available in one-way and two-way tow configurations for military and commercial aircraft, including sub-scale and full-scale drones

TRX basic operations require no specialized support equipment

Empty weight between 12 and 20 kilograms (26.5 and 45 pounds) depending on configuration

Generous payload capacity to accommodate a variety of scoring systems

Target airspeed

maximum airspeed stowed in launcher	400 KCAS (741 KmCAS) (subsonic)
minimum airspeed in tow	no restrictions
maximum airspeed in tow	0.9 mach

Weight (nominal)

31.0 lbs (14.0 Kg)

Operable altitude

unlimited

Augmentation

type of augmentation	octahedral retroreflector array (forward and aft)
coverage (less fuselage shadowing)	omni-directional

