



## Product

## Custom Stainless Steel Multi-beam Coupling

## Application

## Rocket Launcher Position Sensor

## Highlights

- Custom-designed, 6-beam (double-flex, non-relieved) coupling
- Accommodates both high angular and parallel misalignment
- Specially-molded neoprene gaiter

Huco Dynatork couplings were selected for position sensing in a rocket launcher control system. The Huco couplings had to prove their reliable operation in extremely aggressive environments. The brand of coupling initially chosen for the job failed consistently. A cocktail of heat, dust, debris and combustion products resulting from a missile launch created a viscous mass that completely solidified the original coupling, rendering it rock-hard and useless.

To meet the challenges associated with the extremely aggressive operating environments, Huco engineers developed a simple, but clever solution. The result was a coupling based on Huco's standard 19mm diameter, stainless steel multi-beam coupling (a design that is ideal for accommodating both angular and parallel misalignment). A stretched version of the original coupling was made – nearly double the standard length – and modified to accept a specially-molded neoprene gaiter that effectively shields the beam mechanism from debris attack.

Nearly a year of exhaustive trials proved the Huco custom-designed product to be the ideal solution. Quantities were ordered for retrofitting onto armored launch vehicles and spares.

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