

# Flex M Single-Stage Couplings

## MEASUREMENT SYSTEMS

### PROBLEM

A designer and manufacturer of a broad range of non-contact measuring machines needed reliable couplings for use on measuring machines designed for the automatic inspection of large parts.

The coupling drives a ball screw that guides the vision system along the inspection bed. It maintains x-y accuracy to within 10µm over 2.35m of travel; repeatability is also 10µm.

### SOLUTION

The excellent positional integrity achieved due to the high torsional stiffness of the Huco™ Flex M membrane coupling made it the optimal choice for the manufacturer.

The Flex M was developed specifically for applications such as these. As well as being eminently suitable for use in high resolution measuring devices, this model is also widely specified for high gain velocity or motion control systems, position-critical frictional loads, dynamometers, precision encoders, etc.

Flex M models feature thin pressed steel membranes that act as the pivotal members in the couplings. Torque is resolved to simple tensile stresses in opposing segments of the membranes. These couplings have near-infinite life and a dynamically balanced construction. Units have no moving parts and absorb shaft end-float.



### HIGHLIGHTS

- Torsional accuracy of 2710 Nm/rad
- Accommodates up to 4° of angular misalignment
- Heat treated, spring-quality stainless steel membranes

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