BOJHOTEXHUYKU UHCTUTYT MILITARY TECHNICAL INSTITUTE

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EXTERNAL SIX-COMPONENT WIND TUNNEL BALANCE

VTI has designed and produced an external six-component wind tunnel balance. Its principle of work is to apply measured forces and moments directly to load cells. Main features of the balance are the following:

- Six measured force components are resolved into three force and three moment components
- Components interactions are taken into account during calibration
- Maximum degree of repeatability achieved by design concept
- Convenient definition of axes
- Motorized control of pitch in the range of -20 $^{\circ}$ to +30 $^{\circ}$ and yaw in the range of +/- 180 $^{\circ}$ (controlled by a PC)
- Wind speed range up to 50 m/s
- Suitable for the 0.4 m 0.6 m wind tunnel test section
- Suitable for underfloor mounting

