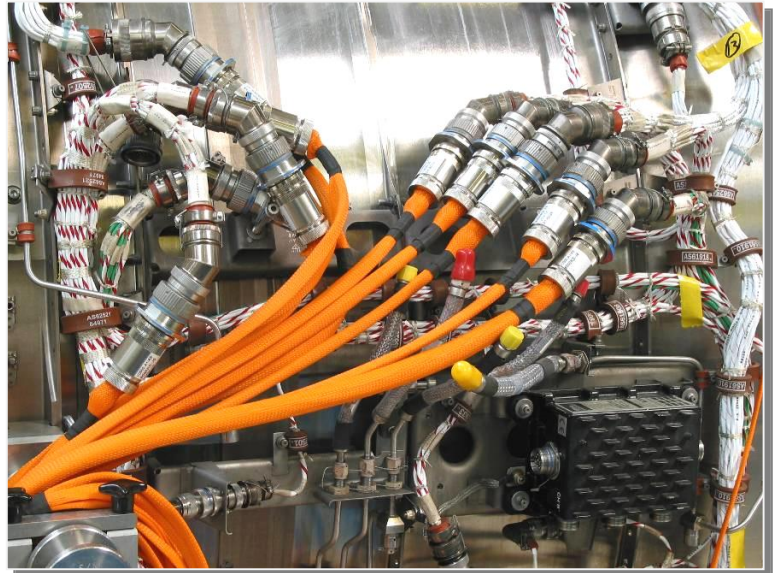




## Test of Aero Engine Cable Harnesses



V2500



Test at the engine

### Projects for the following aero engine types are realized:

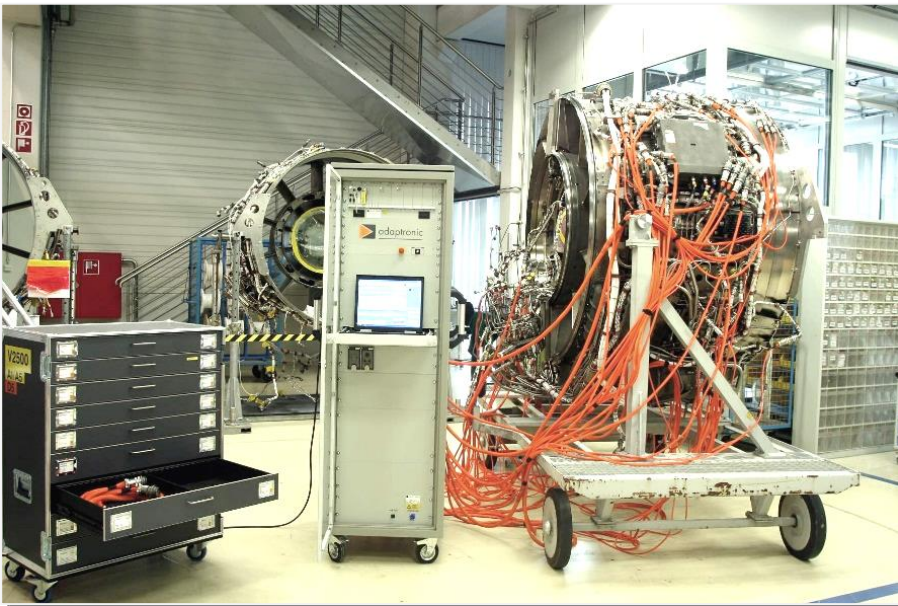
V2500 A1, V2500 A5, V2500 D5

CF6-80, CF6-80C2A, CF6-80C2B, CF6-80C2B1F, CF6-80C2D1F

CFM56, CFM56-3, CFM56-5A, CFM56-5B, CFM56-5C, CFM56-7, CFM56-7B

PW2000, PW4000, PW4100, PW4400

Trent 900, Trent 1000



Aero engine maintenance:  
Test system NT 730 with adapter cables  
and engine specific cable trolley



# Test of Aero Engine Cable Harnesses



Test system NT 730

## Test task:

- ▶ Aero engine maintenance, cable harness test
- ▶ Precise continuity test in two-wire and four-wire measurement
- ▶ Fast short circuit test between the connections
- ▶ Insulation resistance and dielectric strength test

## System design:

- ▶ Modular centralized test system – operation, measurement generators and test points integrated in one cabinet
- ▶ Test system universally usable between the different aero engine test benches
- ▶ Easy handling with handles and big cabinet rollers
- ▶ Ergonomic assembly of the components: standing work bench with laptop drawer at the front, test point interfaces with adapter cables to the engine at the rear
- ▶ Independent adapter cable trolley



Adapter cable

## Technical features:

- ▶ max. 4096 test points, 1500 VDC
- ▶ Four-wire measurement from 1 mΩ
- ▶ Import of connection lists
- ▶ Remote maintenance
- ▶ Adapter cable set for aero engine types in the scope of delivery



NT 600 TPI/FPI

## Test task:

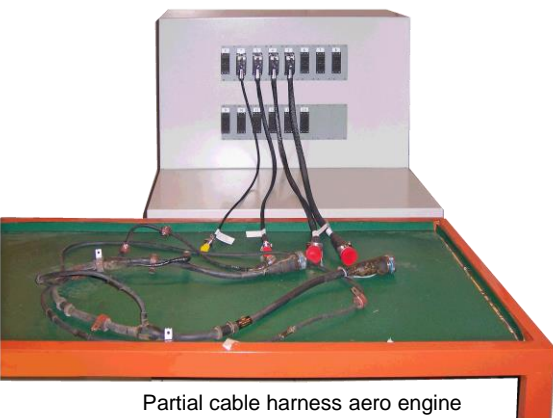
- ▶ Aero engine maintenance, partial cable harness test
- ▶ Precise continuity test in four-wire measurement
- ▶ Special ground - housing continuity test
- ▶ Test sequences for Chromel-Alumel wires
- ▶ Single and complete shield measurement at HF wires
- ▶ Insulation resistance and dielectric strength test

## System design:

- ▶ Modular central test system
- ▶ Fixed integration into a work bench / test surrounding
- ▶ The test system grows with the requirements – easy to expand with additional test point units

## Technical feature:

- ▶ max. 5120 test points via test point units, 1500 VDC
- ▶ Four-wire measurement from 1 mΩ
- ▶ Precise capacitance measurement with adjustment function for eliminating the adaption as well as mathematical measurement value functions



Partial cable harness aero engine