Millimeters mean business

ABB turbines and compressor impellers are built to exacting tolerances to achieve the thermodynamic and aerodynamic efficiencies they need.

**ABB original part**
- Fuel SAVED
- Efficiency OPTIMISED
- Emissions REDUCED

**‘Grey market’ non-original part**
- Fuel WASTED
- Efficiency REDUCED
- Emissions INCREASED

**Blade shape (top view)**
- Substantial geometrical deviation of blade to normal profile > 5mm out of tolerance

**Blade housing (front view)**
- Deviations in geometry and material strength lead to a higher local stress and failure of the turbine blades with consequential major breakdown of the turbocharger and unplanned sudden downtime of the engine.