

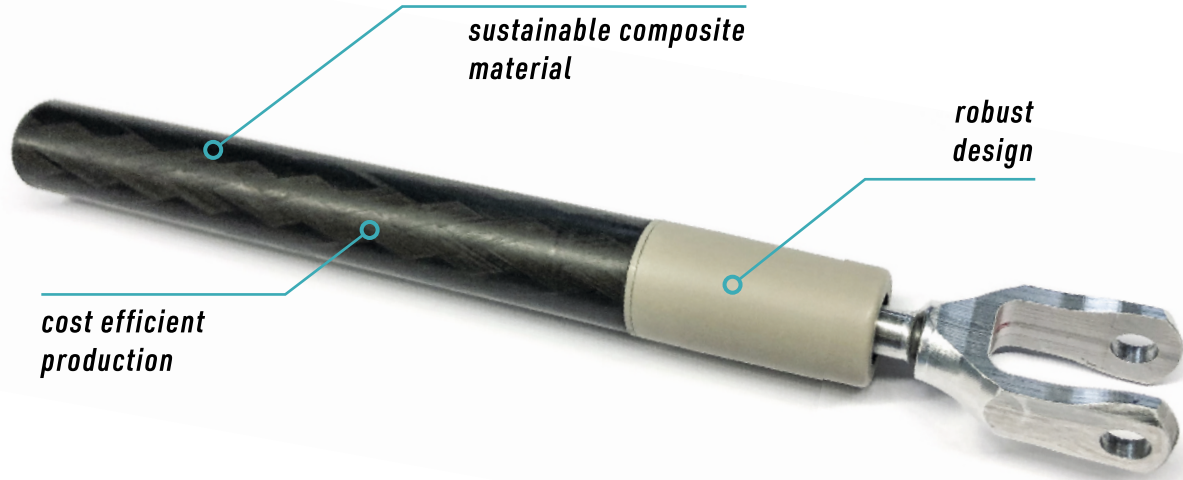
# Thermoplastic Composite

## TieRod

Innovative composite struts  
for a sustainable aviation.

### Contact

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## Product Advantage



**.01**

### **sustainable composite material**

- Fully recyclable TieRods for a circular economy
- Long-term composite material cost reduction



**.02**

### **cost-efficient production**

- Efficient Textile preforming in combination with out-of-autoclave consolidation
- Automated production for in-line quality assurance



**.03**

### **robust design**

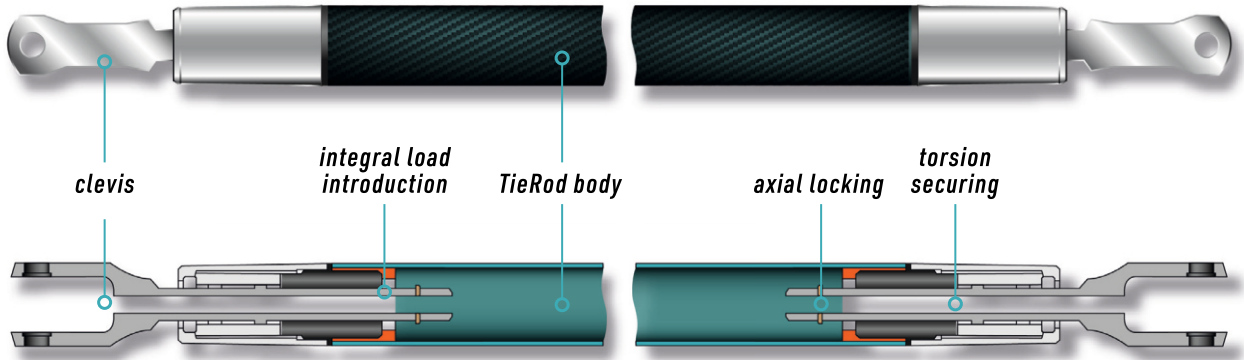
- Integral composite load introduction for reduced certification & inspection effort
- Unified fitting design for reduced part variations within the ABS2180 TieRod family
- Increased BVID impact resistance decreases material usage by up to 20%

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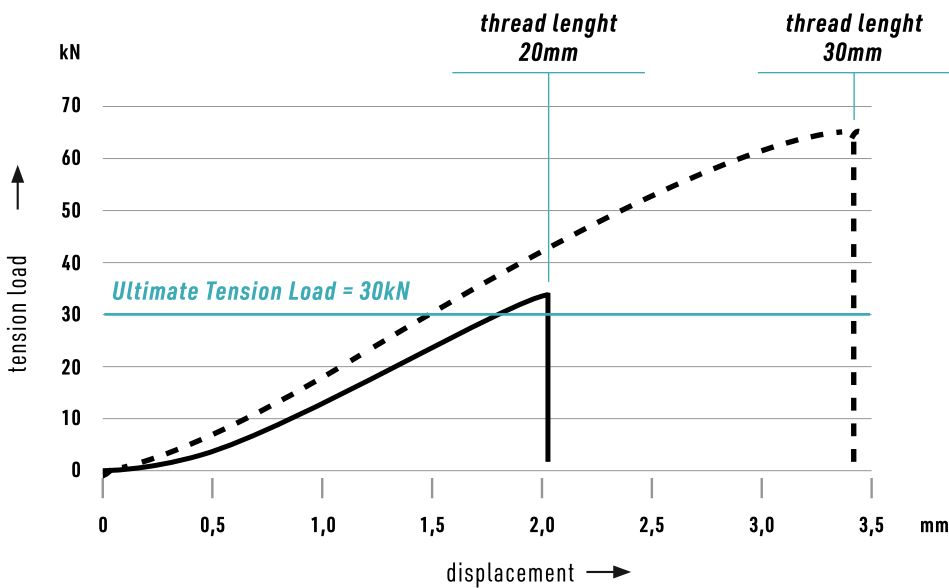
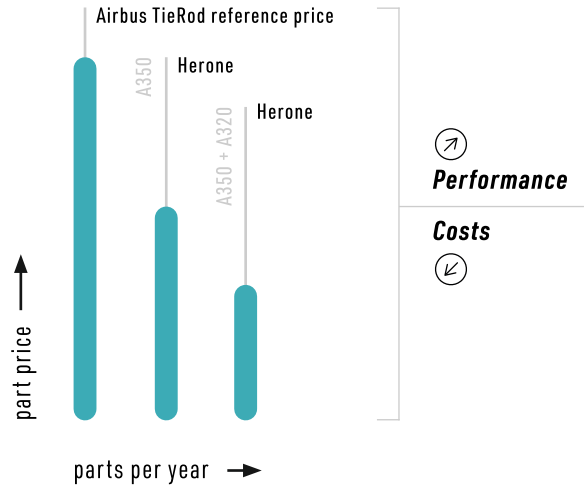


## Product validation for certification accomplished

### For reference ABS 2180 C31341 MG TieRod

- ultimate loads - 30kN tensile & 6kN compression
- mech. testing includes BVID impact

Lodaing type	Testcondition	Result
Static tens. & compr.	RT/dry	✓
Static tens. & compr.	58°C/dry	✓
Static tens. & compr.	RT/wet	✓
Cyclic / windmilling	RT/dry	✓



**For ABS 2180 max. loading**  
 - Validation for max. ultimate load tension 55kN  
 - Adjustable load introduction lenght for varying loads

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