

Revolutionize Drone Efficiency with LEHVOSS Materials Lightweight, Strong, Made in Germany.

You want to improve your drone performance? You want to save costs and gain more value?
We are your material partner to achieve the utmost. Benefit from our decades of experience with structural thermoplastic materials. Profit from our knowledge with numerous approved applications.

Why LEHVOSS materials?

- Higher centrifugal forces
- Increased flight efficiency
- Lower energy consumption
- Better flight performance
- Noise reduction
- IR invisible grades
- Materials tailored to 3D printing



STRUCTURAL



WEIGHT



3D PRINTING

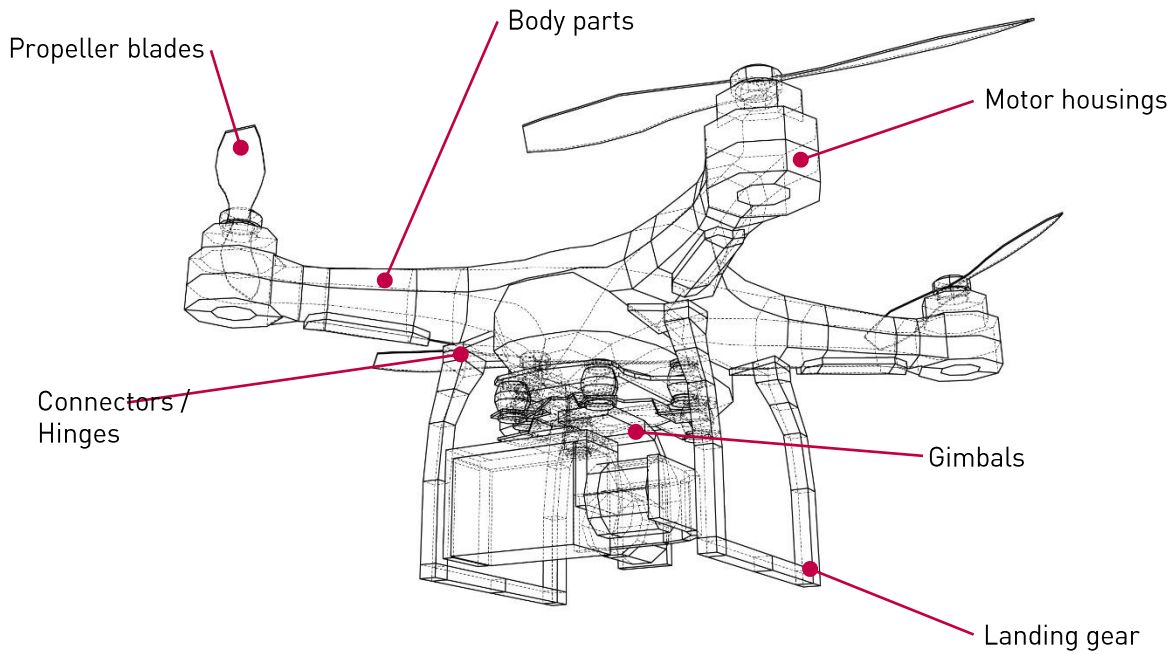
This performance is a result of our leading material technology based on high-performance carbon fibers (XCF technology), long chain polyamides and a unique compounding process.

These properties enable:

- Highest strength – up to 520 MPa
- Highest stiffness – more than 50 GPa
- Combined with an impact strength of 90 kJ/m²
- Low weight
- Excellent fatigue strength
- Insensitive to humidity
- Temperature range – 40°C up to more than 240°C



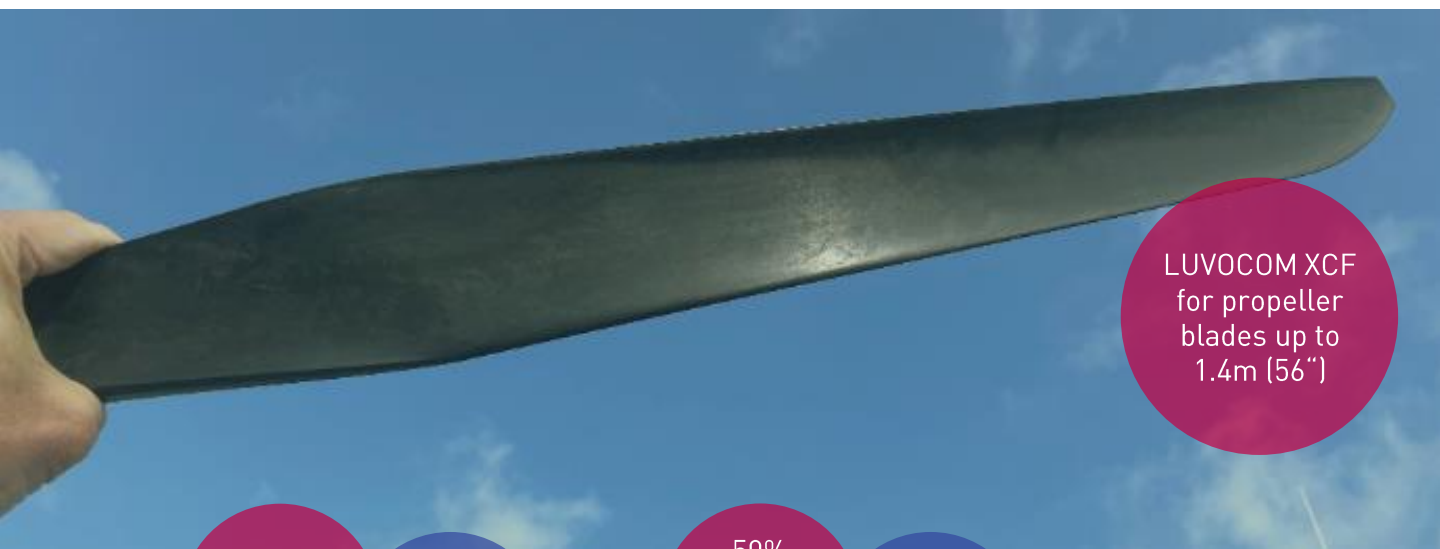
Manufacturing in
Germany with
ingredients
sourced from
NATO countries.



Our thermoplastic compounds, like LUVOCOM XCF technology, ensure defense-grade performance with exceptional strength, stiffness, and impact resistance. Trusted by engineers worldwide, these materials offer unparalleled reliability for mission-critical components. From structural frames to stealth propellers, our materials maximize flight efficiency and expand operational possibilities.

Application example: Propeller blade

Material: LUVOCOM XCF (high-performance X-Carbon-Fiber reinforced PPA)



LUVOCOM XCF
for propeller
blades up to
1.4m (56")

527 MPa
flexural
strength

31 GPa
flexural
modulus

50%
lighter
than
aluminium

43%
lighter
than PA66
GF50

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