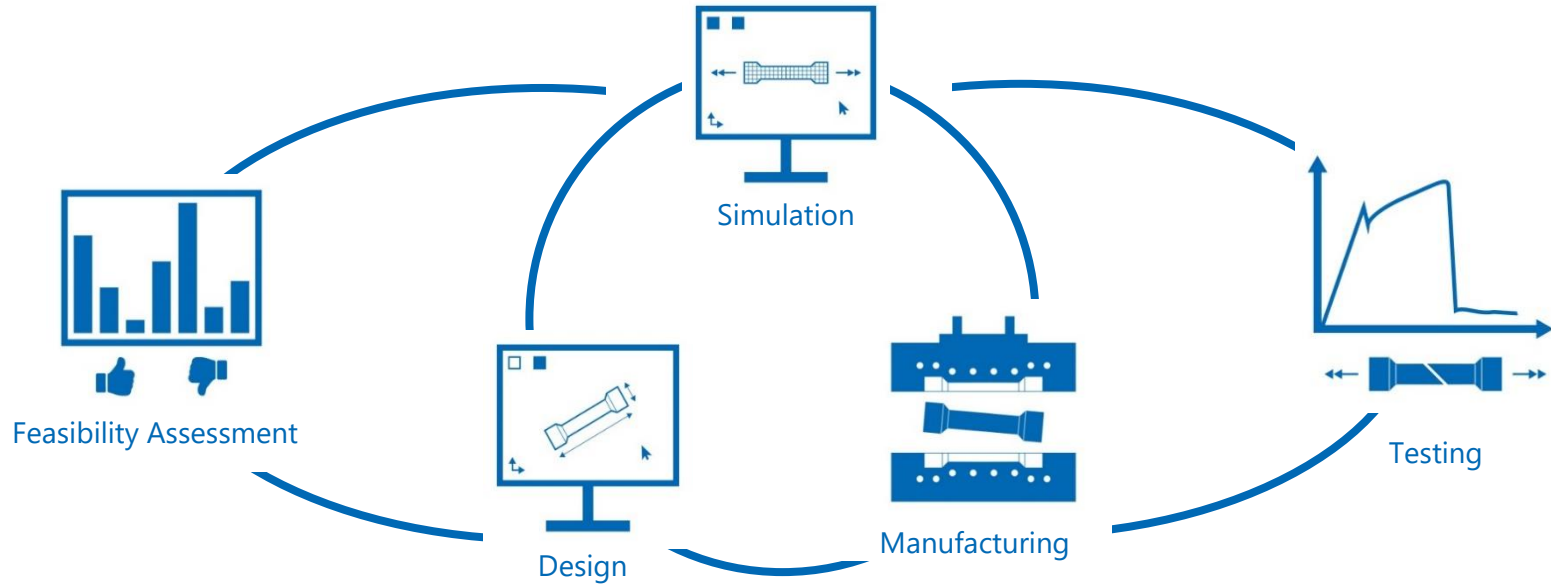




Lightweight Engineering

Hype vs. real industrial demands

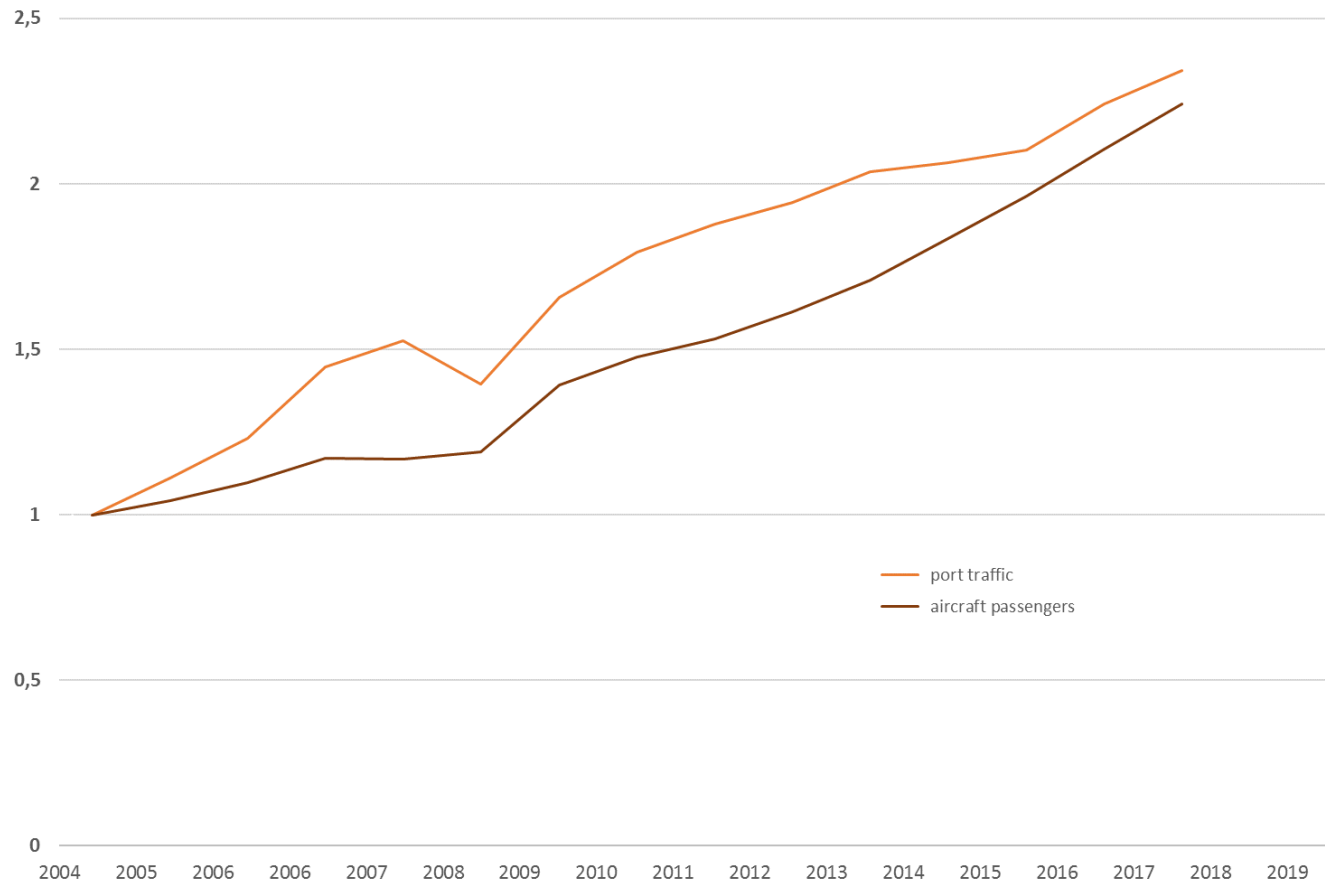
Kai Steinbach & Thomas Heber

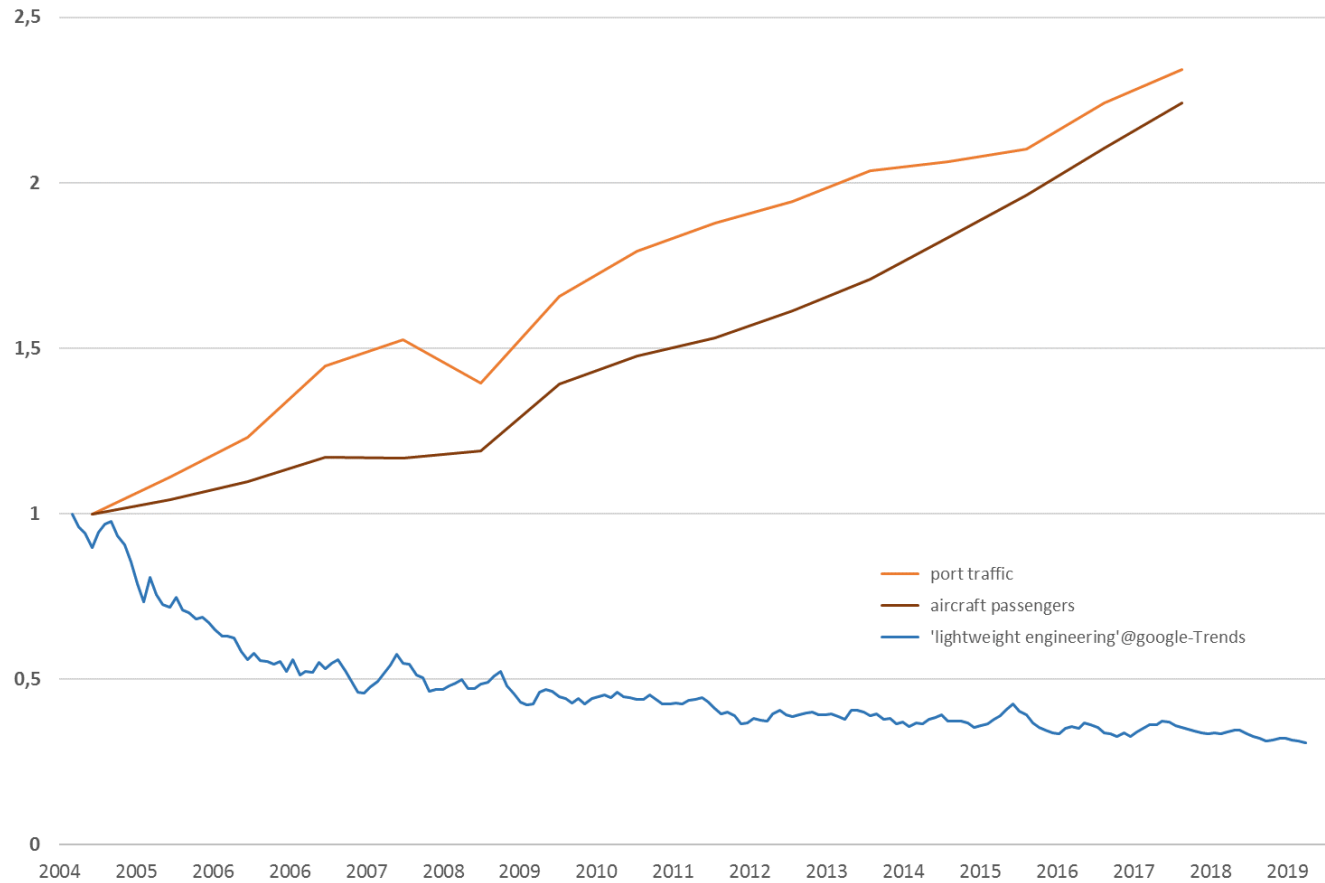


Complete engineering services for lightweight systems
– material & technology independent.

$$m\ddot{\vec{x}} = \vec{F}$$

$$\vec{F} \cdot \vec{s} = W$$

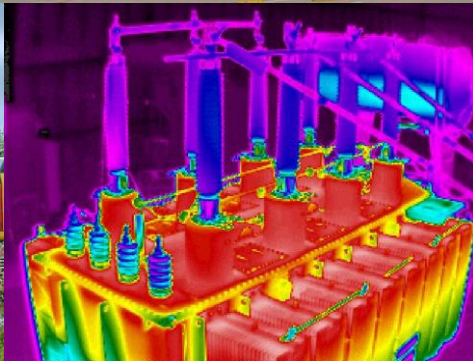






$$\frac{m_{\text{max payload}} + m_{\text{structure}}}{m_{\text{structure}}}$$

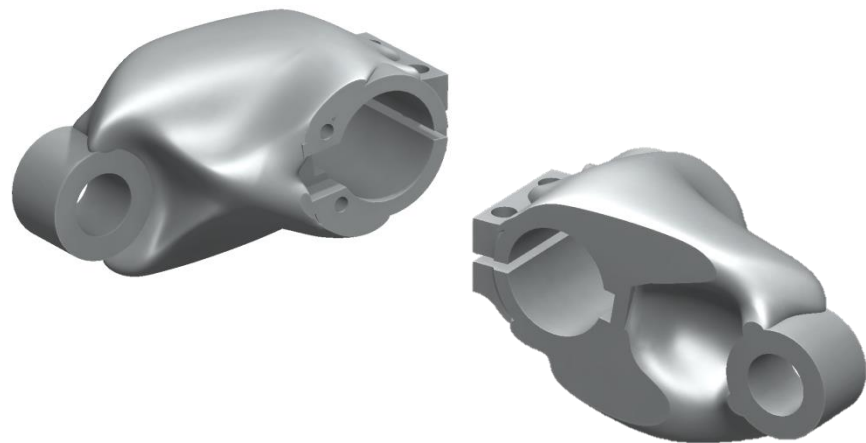




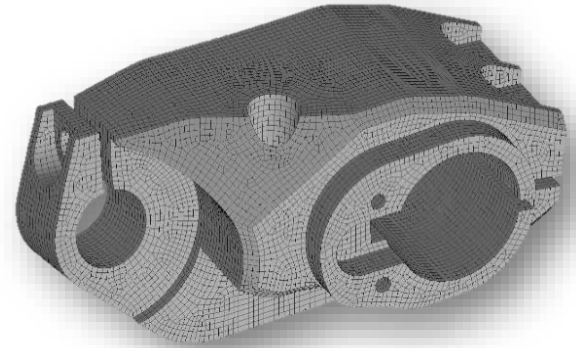
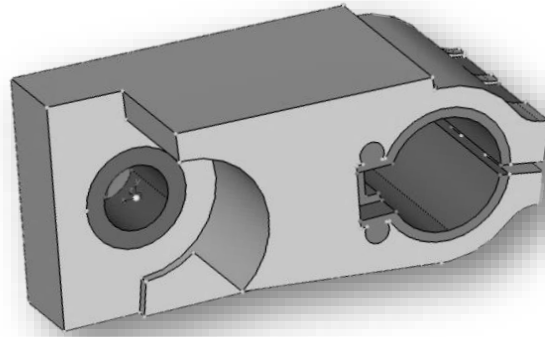
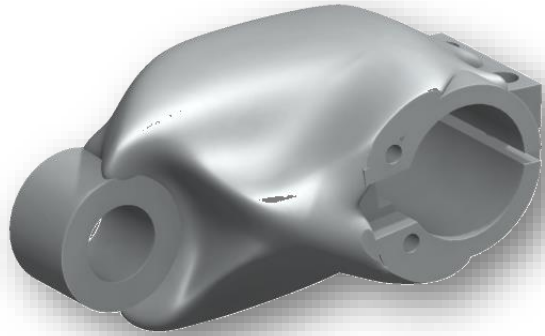


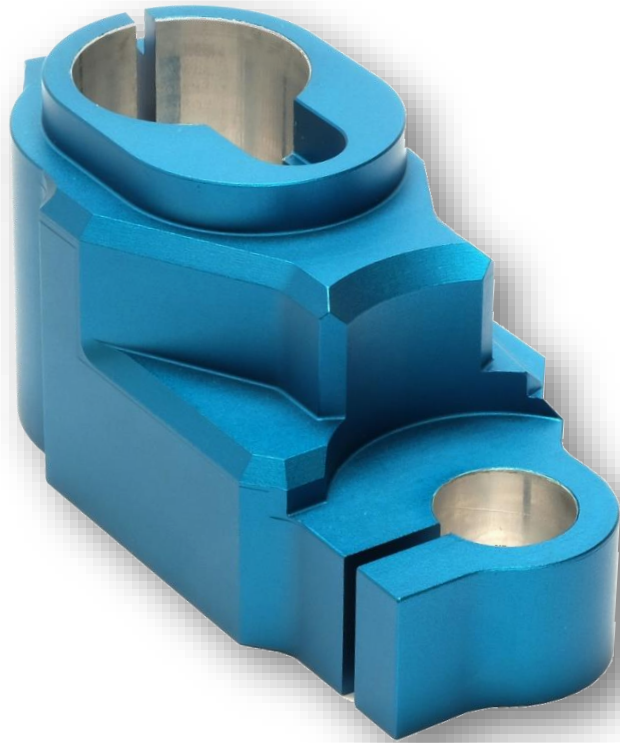


1436 kg*mm²



975 kg*mm²























Thank You!

