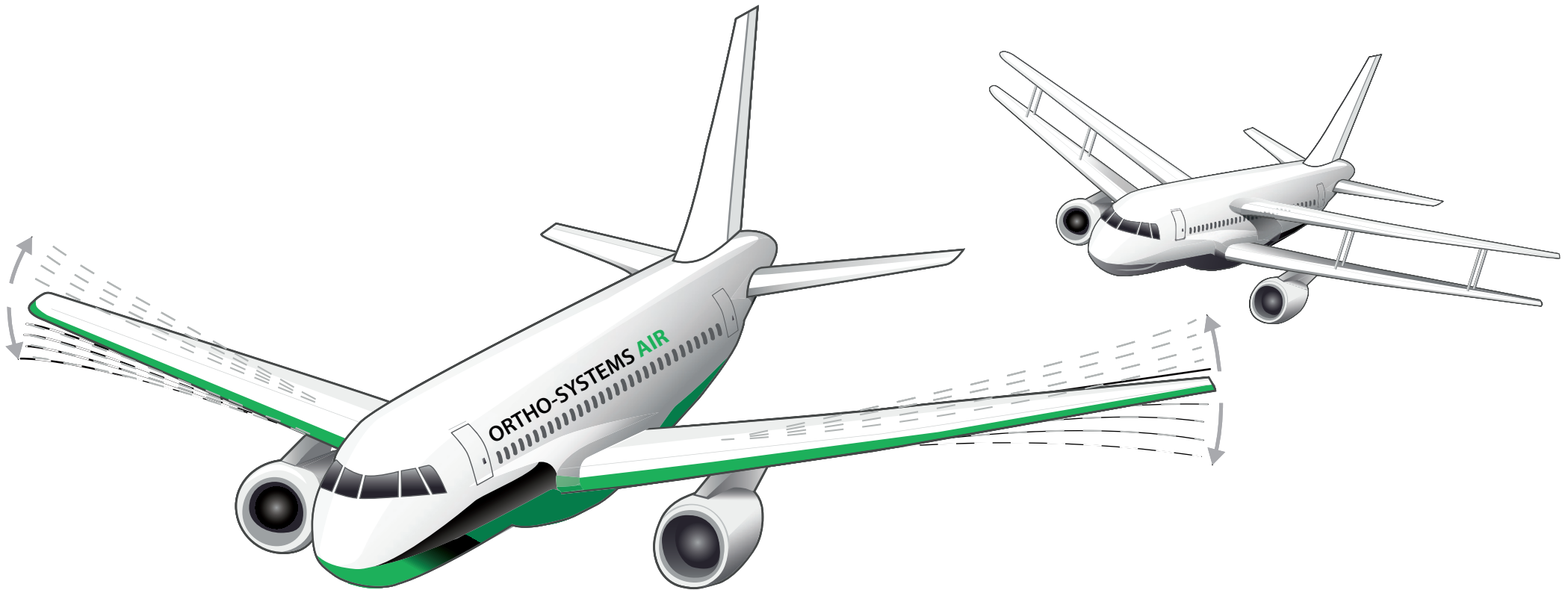


Unilateral is Standard

Under heavy loads, flexible orthoses can bend in a controlled manner, which gives them greater resilience compared to rigid orthoses. This adaptability helps reduce structural fatigue, making them less prone to cracking and material fatigue. Additionally, unilateral orthoses offer an aesthetic design while also providing savings in material and weight.



As little as possible, as much as necessary

The design of an orthosis must be aesthetically appealing, as well as practical, functional, and stable. A single area that becomes a weak point due to unnecessary reinforcement can jeopardize the entire system, regardless of the strength in other areas. Such a weak point might rapidly lead to breaks in structural or joint components. A flexible, unilateral design can adapt to changing load conditions and reduce stress on individual parts, which in turn extends the lifespan and decreases maintenance costs. For orthoses subjected to very high loads, such as for heavy patients or orthoprotheses, the structural stability can be increased by using double-sided joints.

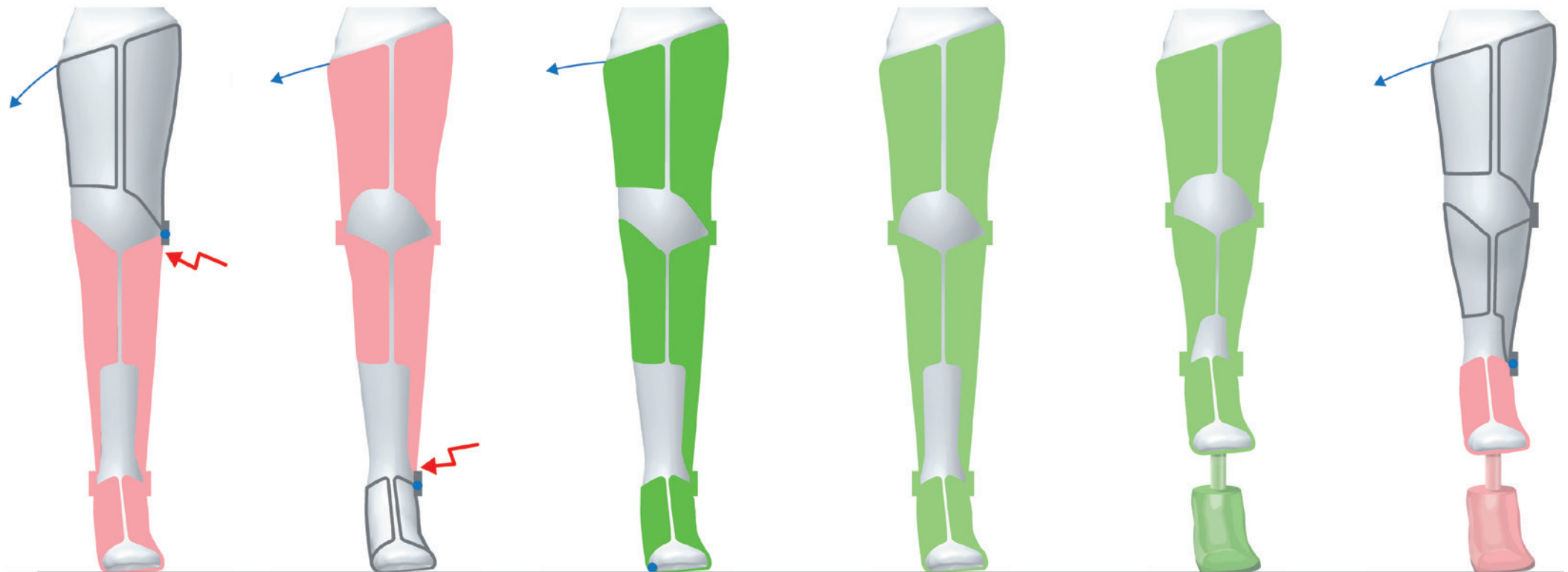


Hybrid

Standard

Double-Sided

Orthoprosthesis



Partial Reinforcement

Flexible

Structural Reinforcement

Problematic

Attention: If your planned orthosis design deviates from our unilateral standard, our weight classification system will not be applicable. Please contact us for assistance.