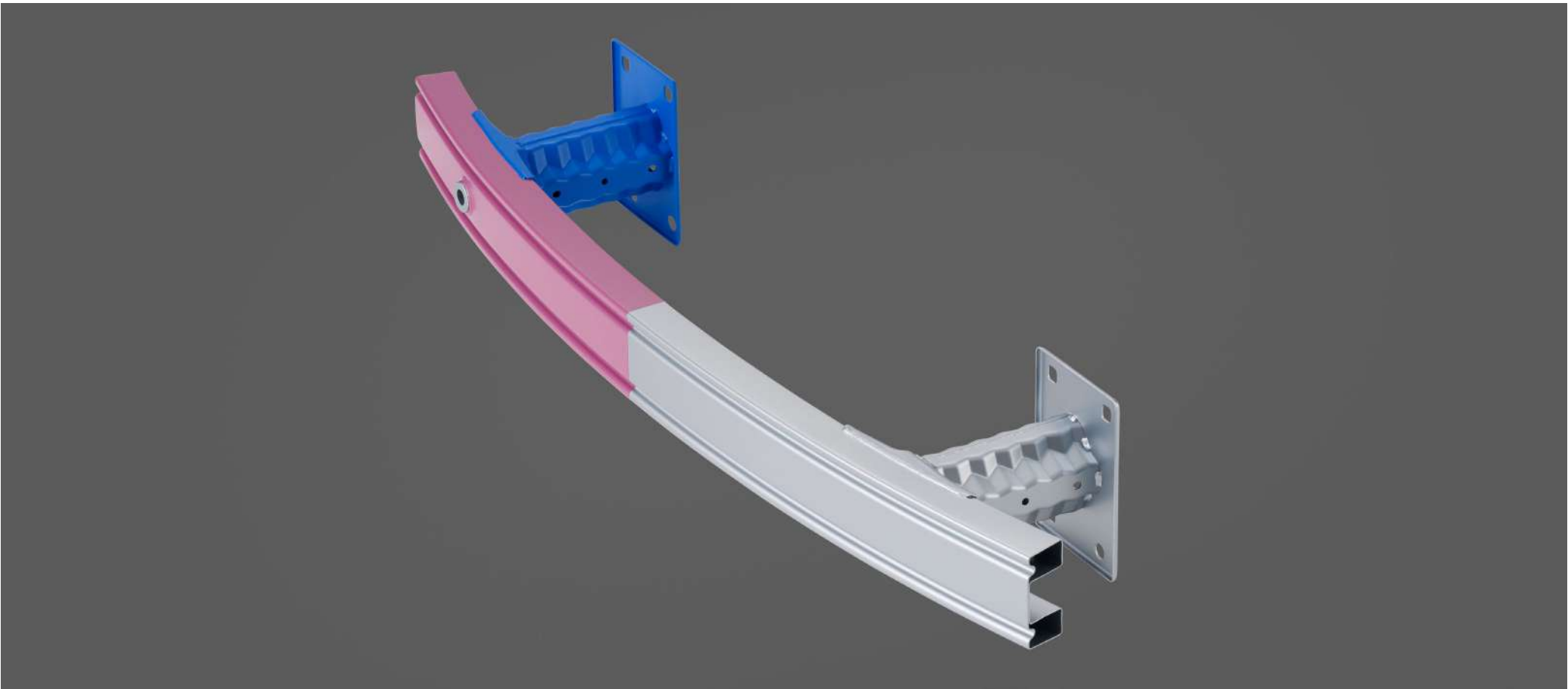




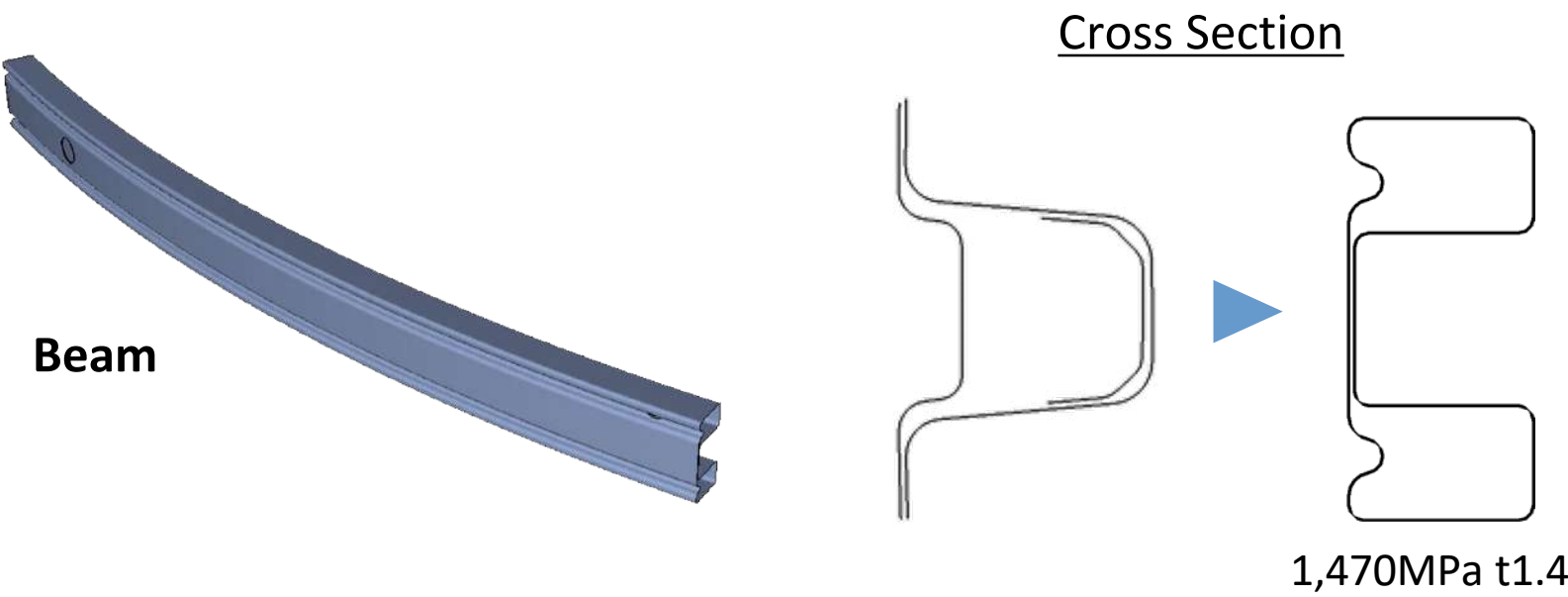
EA Roll-Formed BUMPER BEAM

Roll-Formed Beam and Cross-Shaped Cross-Section Crash Box – Weight Reduction and Lower Cost

Patented



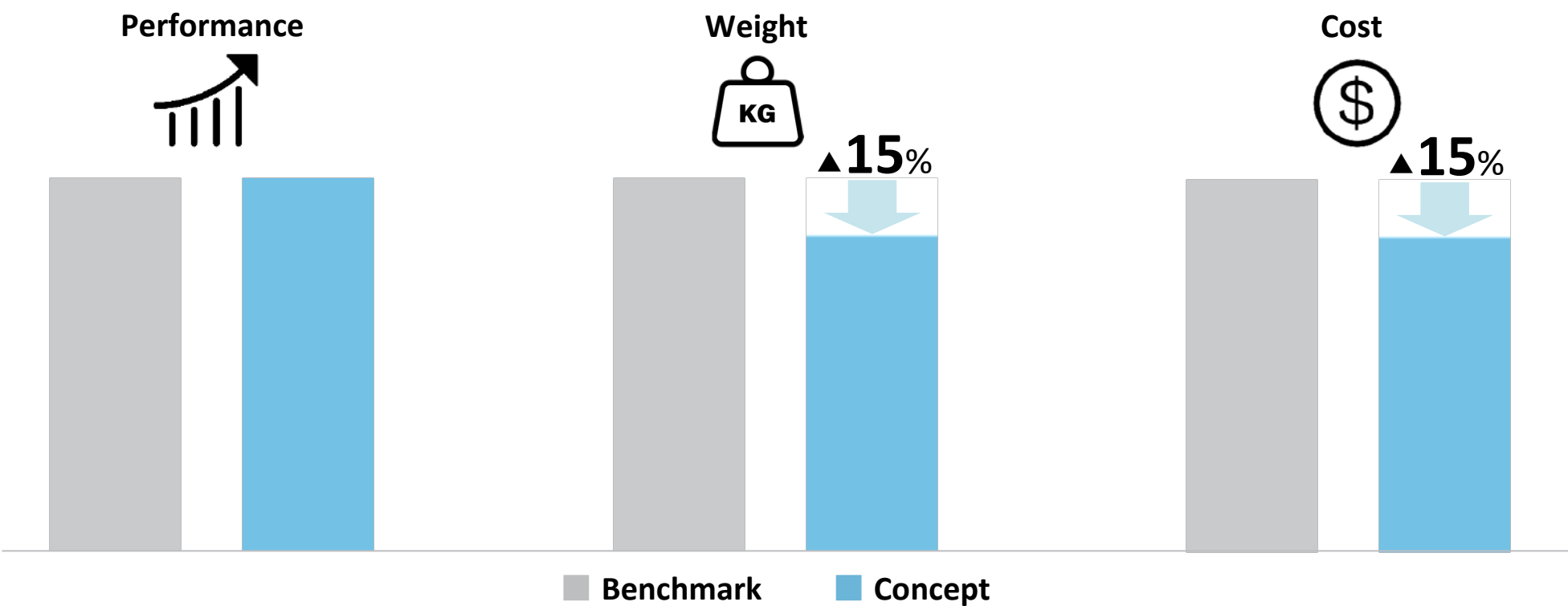
Replacement with Roll Forming



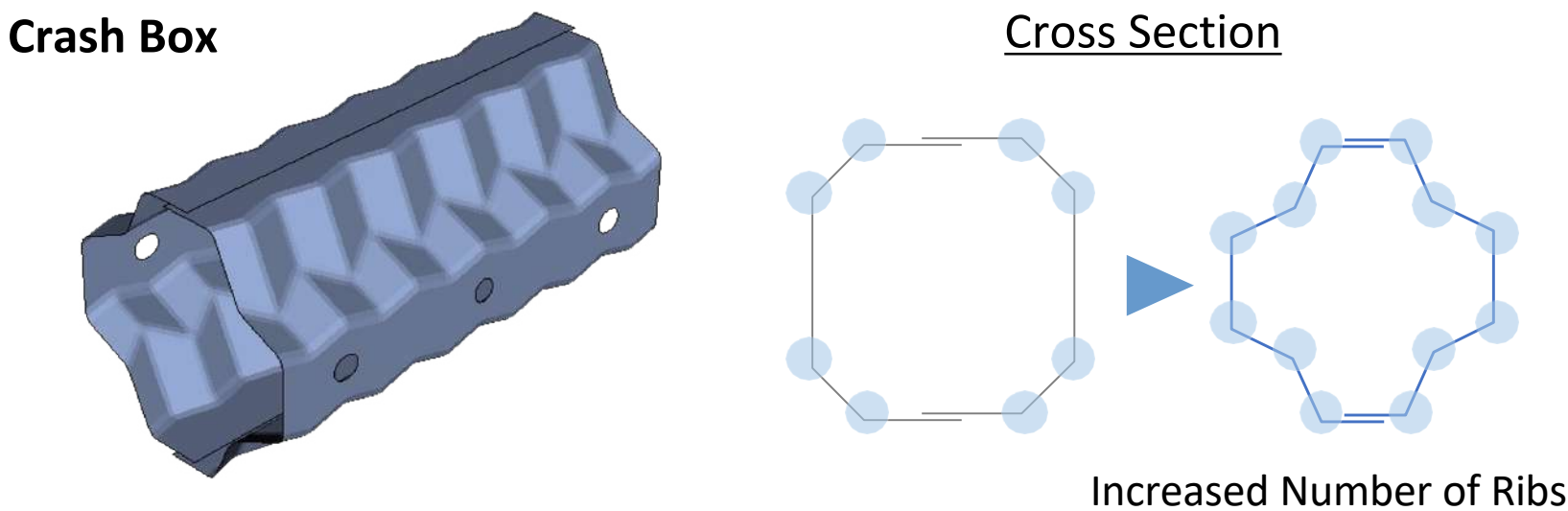
Part count- and weight reduction achieved by roll forming using UHSS

Benefits of Application

Achieves benchmark-equivalent performance with reduced cost and weight



Adoption of Cross-Section Design



Same performance with reduced weight and lower cost through cross-shaped cross-section design

Maximum load control enabled by wave-shaped geometry