

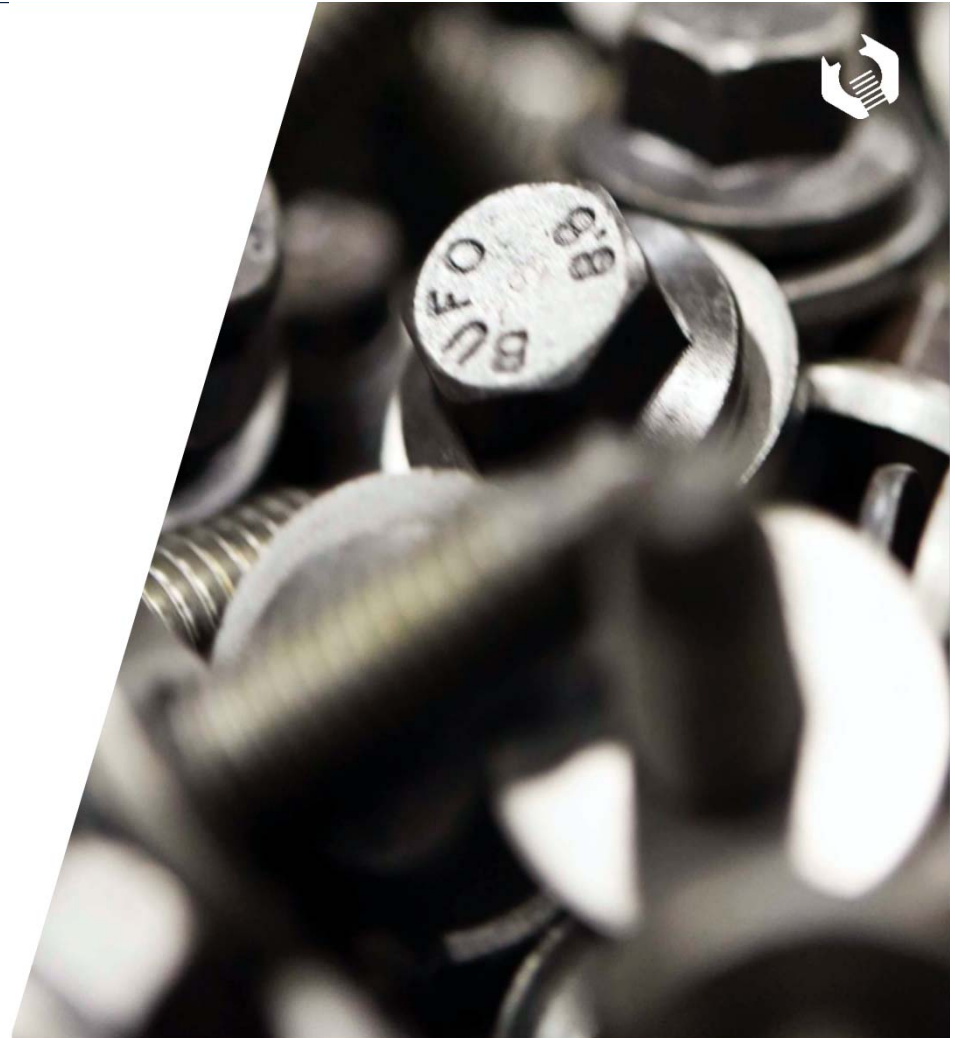


BUFOe – A Sustainable Product Line

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VP TECHNOLOGY

What is the carbon foot print of a bolt?

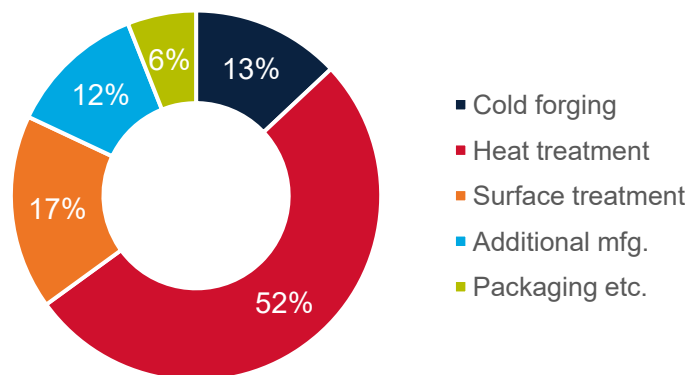




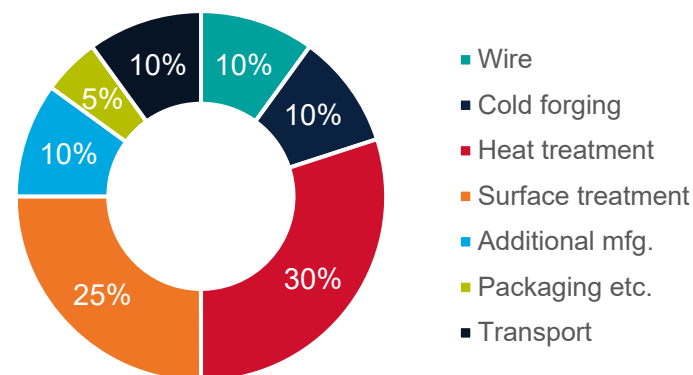
ECO-EFFICIENCY

We have mapped the energy consumption and carbon emissions in an average European bolt production.

Energy consumption in bolt production



Billet to bolt CO2e split*



*Including steel billet to wire production and transports of wire and outsourced surface treatment. Delivery to customers not included.



Introducing BUFOe



BUFOe
30% less CO₂e &
50% less energy per bolt

Bulten's green product line
BUFOe

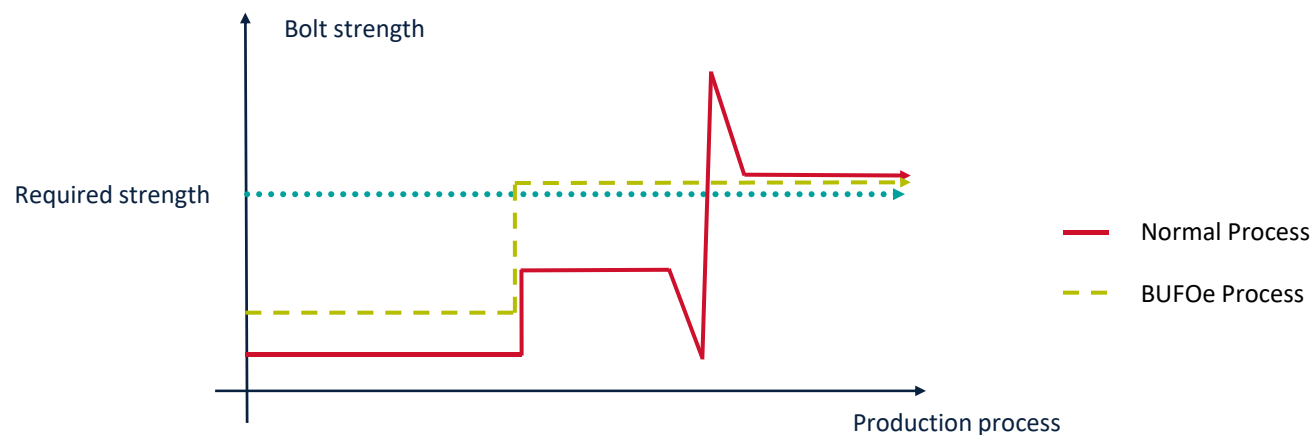


How does it work?



BUFOe – High strength, no heat treatment

Innovative combination of advanced material and cold forging



Material



cold forging



heat treatment



BUFOe

BUFOe
30% less CO₂e &
50% less energy per bolt

Other benefits

Less CAPEX

Increased Capacity

Reduced Lead time

Improved Quality



BUFOe

**BUFOe
30% less CO2e &
50% less energy per bolt**

**Officially
released to you
and our
customers now**



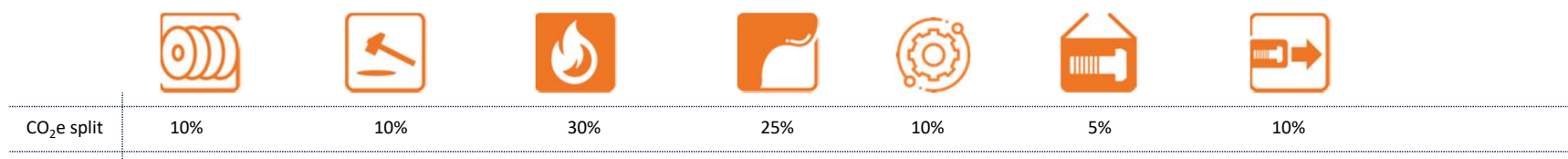
**Is 30% enough?
What else can we do?**



Eco Efficiency – Optimized Production

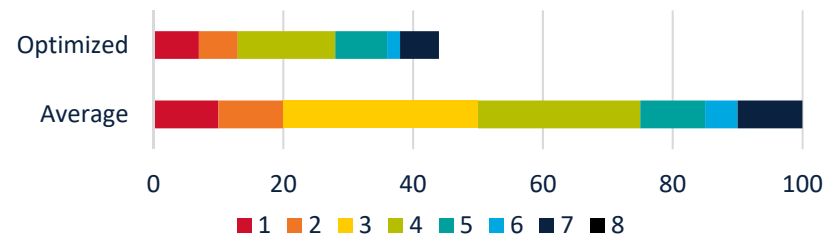
A part of FSP

Potential to reduce CO₂e¹ emissions >50%²



Dear Customer,
please make your choices:

	Standard	Optimized
1. Wire rod type	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Cold forging	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Heat treatment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Surface treatment	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Additional mfg.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Packaging	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Transport	<input type="checkbox"/>	<input checked="" type="checkbox"/>



¹CO₂e = Carbon dioxide equivalent

²Compared to an average bolt produced in EU



Full Service Provider

ENGINEERING → MANUFACTURING → PROCUREMENT → LOGISTICS

ECO-EFFICIENT SOLUTIONS

QUALITY

BULTEN CULTURE