



Bulten has a lean and well positioned logistics and manufacturing footprint and flexible supply chain

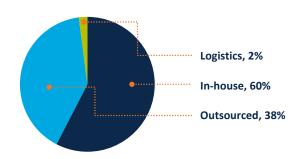
Lean and well positioned logistics and Manufacturing facilities



Global footprint

- Production, strong focus in Europe
- Russia and Asia well established
- North America production footprint established

In-house vs. outsourced production Sales value



- Bulten produces most products in-house and has a significant trading operation to optimize efficiency
 - Trading -> flexibility



Manufacturing footprint



Hallstahammar Sweden Capacity: 18 k tons Dimension range: M10-M30



Hudson/Ohio
USA
Capacity: > 500 k tons
Dimension range: M5 –M12



Germany

Capacity: 13.5 k tons

Dimension range: M10-M16

Bergkamen





Capacity: 6 k tons

Dimension range: M6-M24



Bielsko-Biala

Poland Capacity: 20 k tons

Dimension range: M6-M22



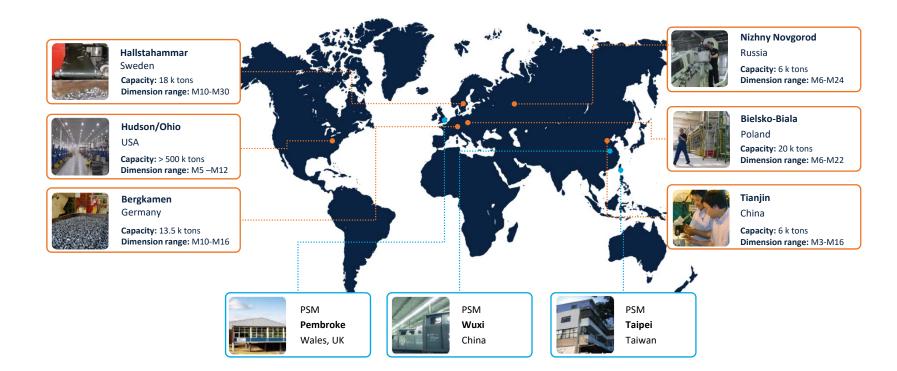
Tianjin

Capacity: 6 k tons

Dimension range: M3-M16

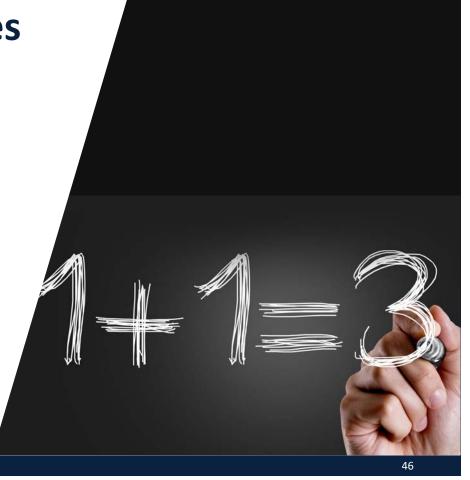


Manufacturing footprint



Manufacturing synergies Bulten - PSM

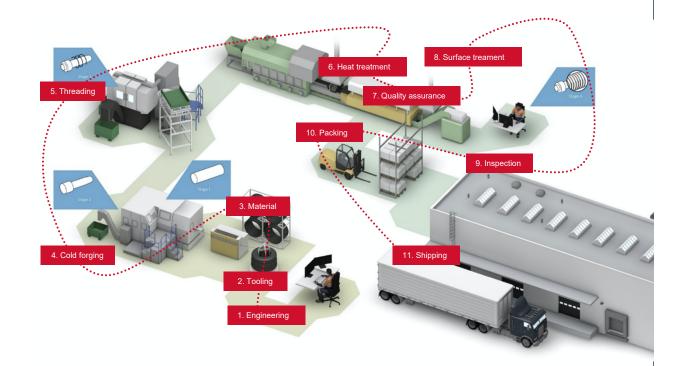
- Cold forming: Bulten bolts and PSM special nuts
- Machining
- Heat treatment: In-sourcing or economy of scale
- Surface treatment: In-sourcing or economy of scale
- Site footprint shared facilities and shared resources
- Shared raw material suppliers





Production process

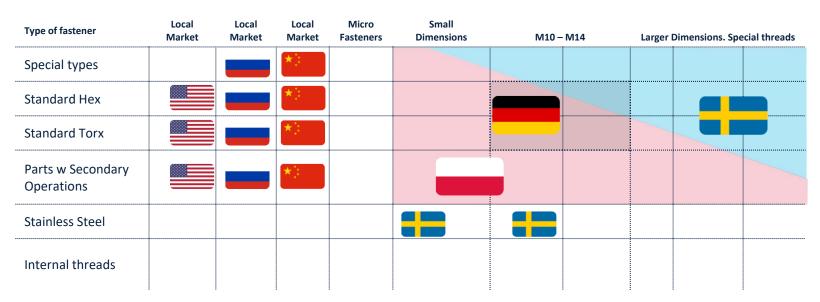
- 1. Engineering
- 2. Tooling
- 3. Material
- 4. Cold forgning
- 5. Threading
- 6. Heat treatment
- Quality assurance
- 8. Surface treatment
- 9. Inspection
- 10. Packing
- 11. Shipping





Bulten Production strategy

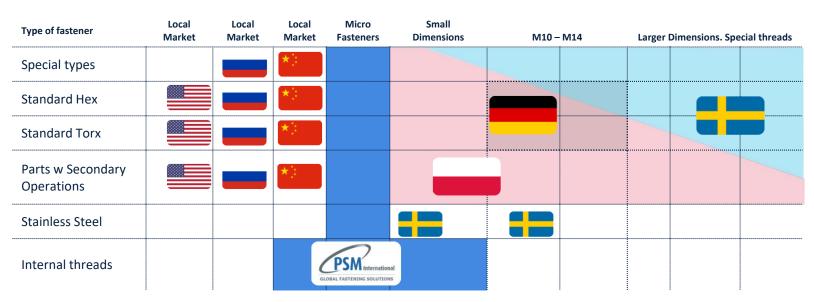
DIMENSION

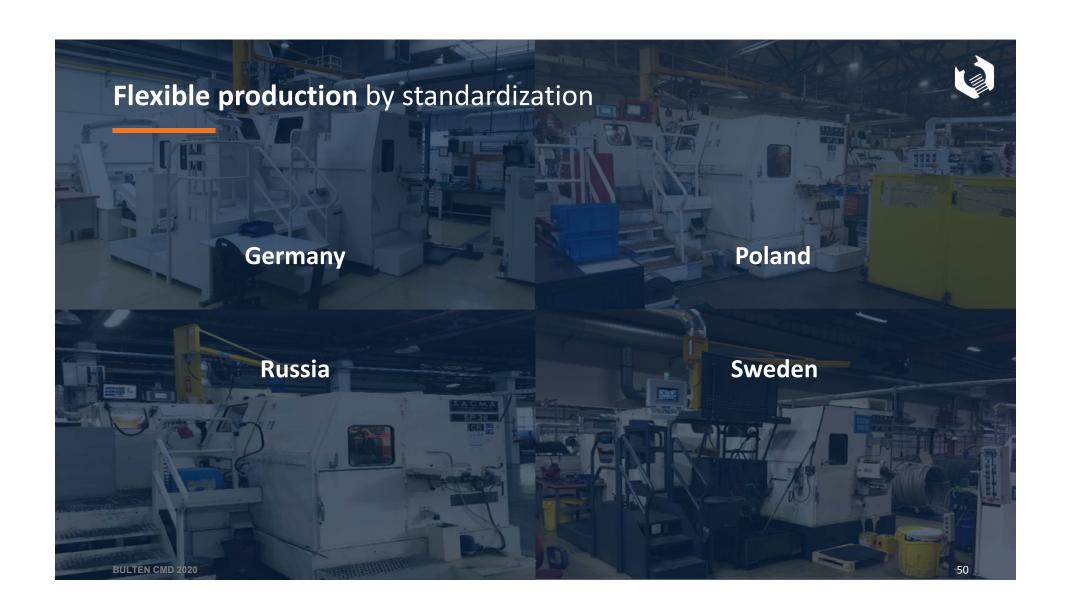




Bulten Production strategy

DIMENSION







Preparing for profitable growth

Highlights Bulten Tianjin

- Successful move without interruption for customers
- 9000 m2
- Approx. 100 Employees
- Equipment:
 - 18 Coldformers
 - 21 Threaders,
 - Heat-treatment lines
 - 3 Surface-treatment lines.
- Surface treatment in special environmental zone.



New plant in Poland

Plot purchased in Radziechowy – Wieprz

Plot size: 97 350 m2

Planned facility phase one, size: 25 000 m2

Future foot-print for expansion

In-sourcing of surface treatment

- Improved cost structure
- Reduced lead-time
- Secure capacity
- Contingency in heat-treatment
- Move from the current Wilkowice logistics centre to the new building
- Green financing through BREEAM certificate



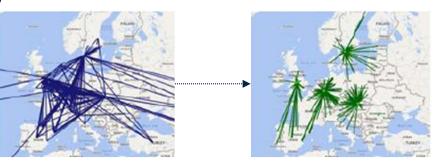


Margin expansion



Margin expansion

- Production consolidation
 - FSP "Time to Market Manufacturing / sourcing efficiency
- Insourcing of high margin operations
 - E.g. New Polish plant: Surface treatment
- Distribution Network Efficiency
- Localization of production
 - Plants in China and US lowers logistics and trade costs
- Becoming Leaner through roll-out of Bulten Production System
- Sustainability efforts leading to reduced costs



BULTEN CMD 2020



Sustainable Operations

Solar PanelsPoland

- 100 000 kWh yearly production
 - 80 ton annual reduction CO2 as a first step



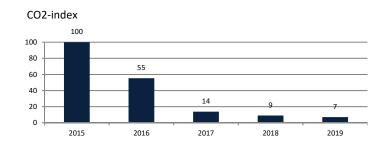
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Sustainability

Energy and CO2 reduction in Hallstahammar



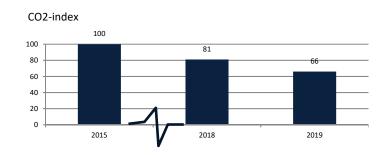


2016	2017	2018	2019	2020
Green electricity.	Self supported heating (CO2 free).	Recycled energy from surface treatment.	Replacement of outdated heat-treatment lines with a modern, energy efficient one.	Conversion from combustion forklifts to electrical.



Sustainability

Energy and CO2 reduction in Bergkamen





2016	2017	2018	2019	2020
New wash machines with heat recovery.	Better power mix.	Installation Coating Line.	New air compressor.	Replacement of old heat exchanger. Ventilation system in heat treatment dep.