

HOW TO DELIVER VALUE OVER VOLUME

- SUSTAINABILITY AT A NEW LEVEL

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Bathan AG

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Who is Bathan

- Swiss manufacturer of High-performance Lubricants
- Global leader in ceramic lubricants
- The performance of our customers in focus
- Represented in Europe, Americas and Asia
- Full Service provider for the pellet industry



Why Talk about Sustainability



- >11 tons of Ceramic Grease in 2021 (substitutes 220 tons regular grease)
- 900 hours of Service per year
- 5+ successful consulting projects every year
- Speaker at renewable energy conferences since 2009
- 20+ Articles in industry specific media



Drivers in Lubricant R&D



Drivers for innovation in Lubrication:

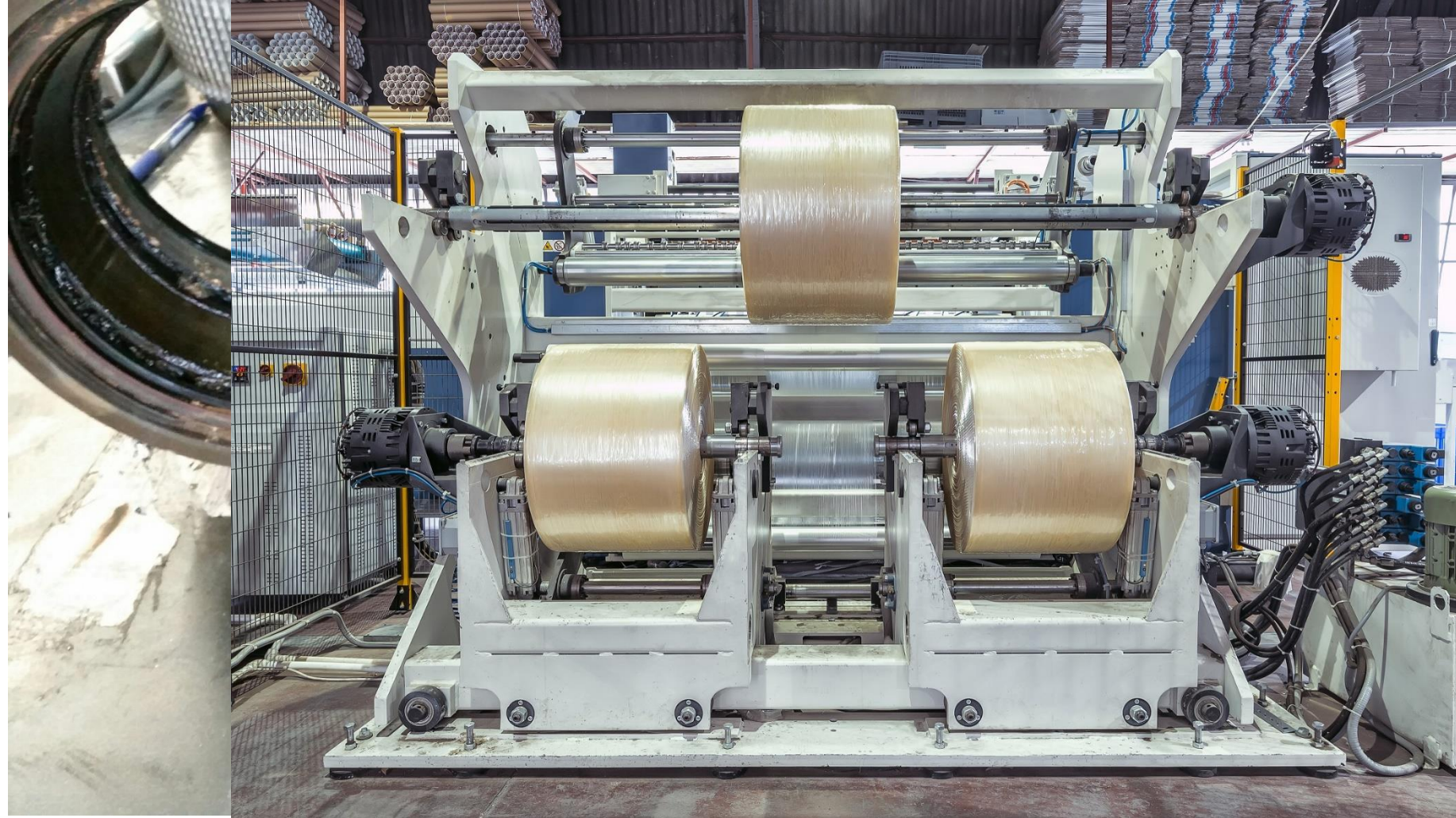
- Particular Case Design
- Ingredients R&D
- Increasing Logistic Costs
- Carbon Credits



Approaches along the Pellet Production Process

Lubricants:

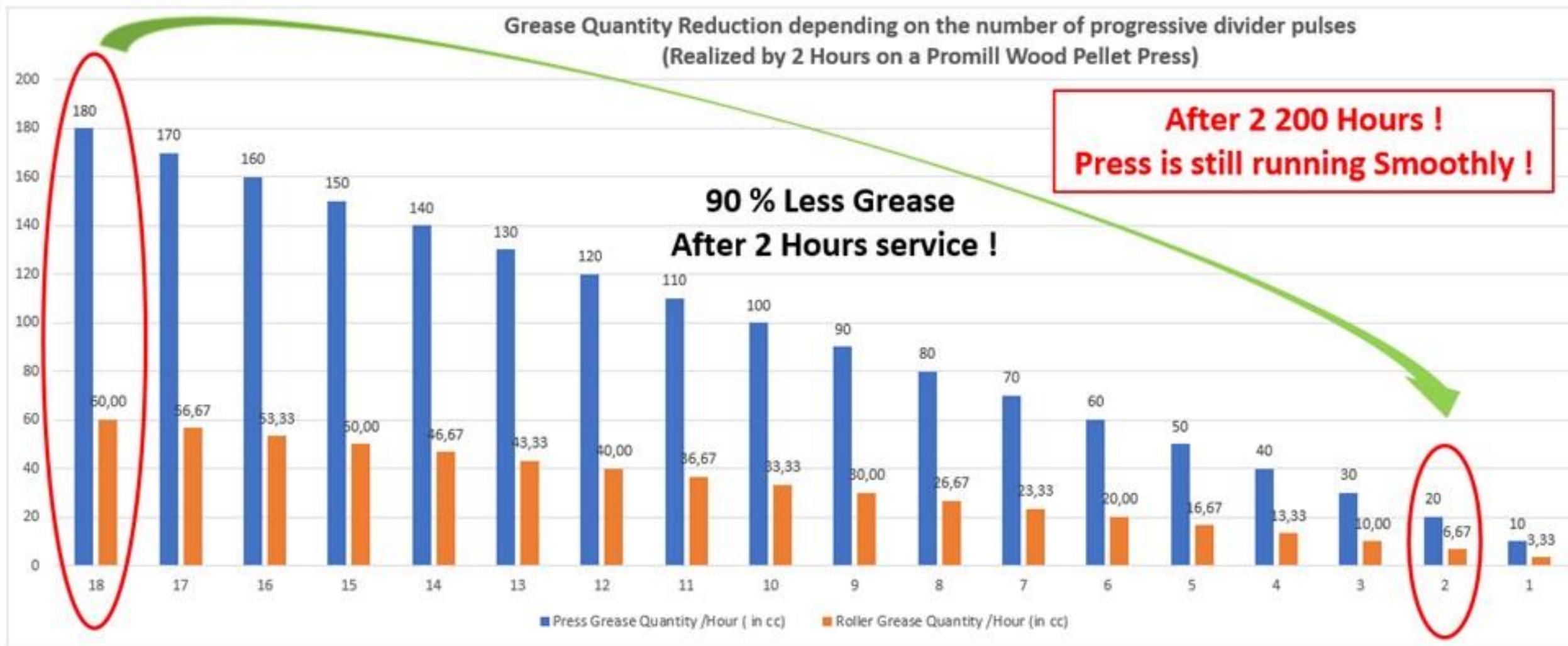
- Hammermills
- Conveyors
- Pellet Mill
- Packaging





Pellet Mill

Effects of lubrication with ceramic grease:



Packaging

Pellet Plant

Focus on Waste Management

With 95% lower consumption, a company with 120.000 t annual pellet production **saves 45 drums** of grease.

= 1.575 kg CO₂*
9 t p.a. / mill



*) Life Cycle Analysis by rensch-packaging.com



Total Carbon Cost Comparison

	Regular Grease	BATHAN Grease
Waste Drums	48	2,5
Grease Costs	48 x 1000€ = 48.000€	2,5 x 19.200€ = 48.000€
CO ₂ Emissions		
Grease	5kg CO _{2e} /kg = 43,2 t	2,25 t CO _{2e} /kg
Drums	35 kg CO ₂ /drum = 1,68 t	87,5 kg
CO₂ Comparison	44,88 t	2,3375 t
CO ₂ Certificate Equiv.	Future Price 90€ = 4.039€	210,38€

Assumptions:

4 pellet mills with 5 t/hr production
 24 hr production
 5 days / week
 50 weeks / year
 = 120.000 t p.a. production

1 drum of grease / mill / month
 = 48 drums

95% lower grease consumption with BATHAN ceramic grease.

Grease Carbon Emissions: NESTE; Drum Carbon Emissions: Rensch Packaging; Carbon Pricing: EMBER

Thank you!

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BATHAN®
swiss made lubricants

