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Aurubis Metals for Progress

BALLOFFET

BECHEM LUBRICATION TECHNOLOGY

kupfer_

NIEHOFF GRUPPE


NIEHOFF
GRUPPE

Latest gen. of NIEHOFF Rod Breakdown Lines

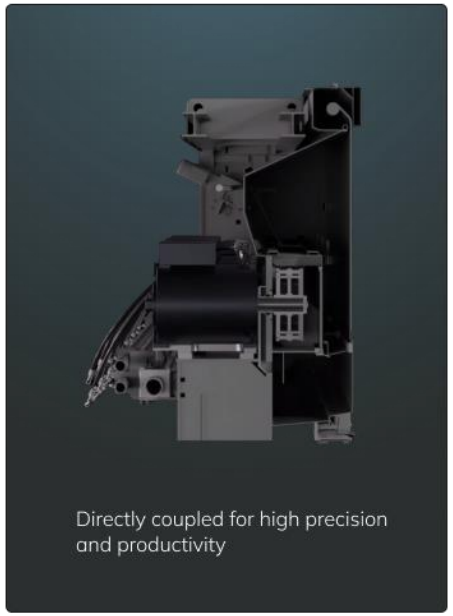
(HEAT-technology & Benefit-calculation)

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Latest gen. of NIEHOFF Rod Breakdown Lines

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Directly coupled for high precision and productivity

Minimum maintenance costs

Less noise



NEW: Efficiency-increasing torque motors

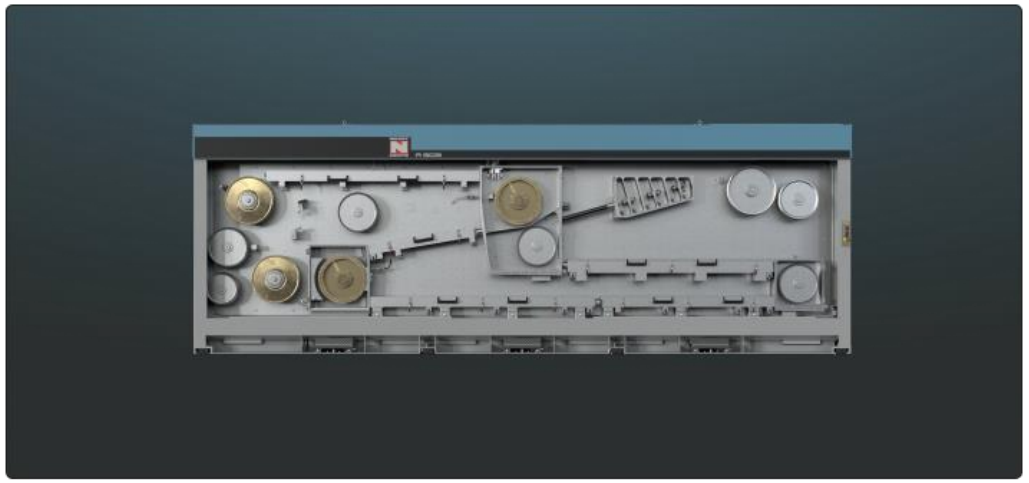
Power savings

CO2 savings

Potential for funding

Latest gen. of NIEHOFF Rod Breakdown Lines

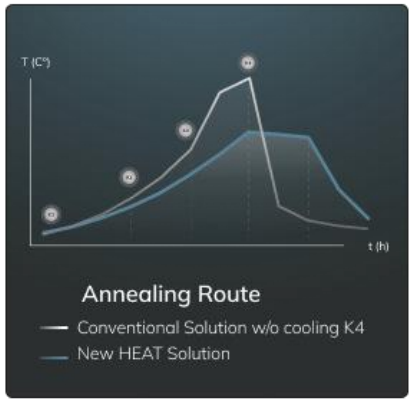
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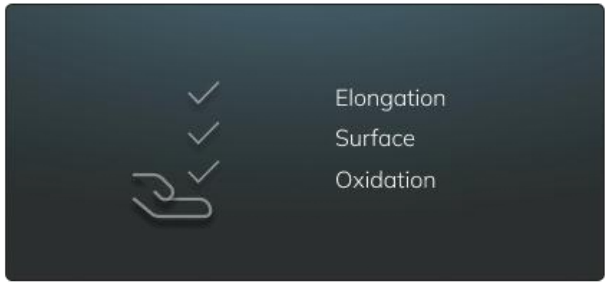






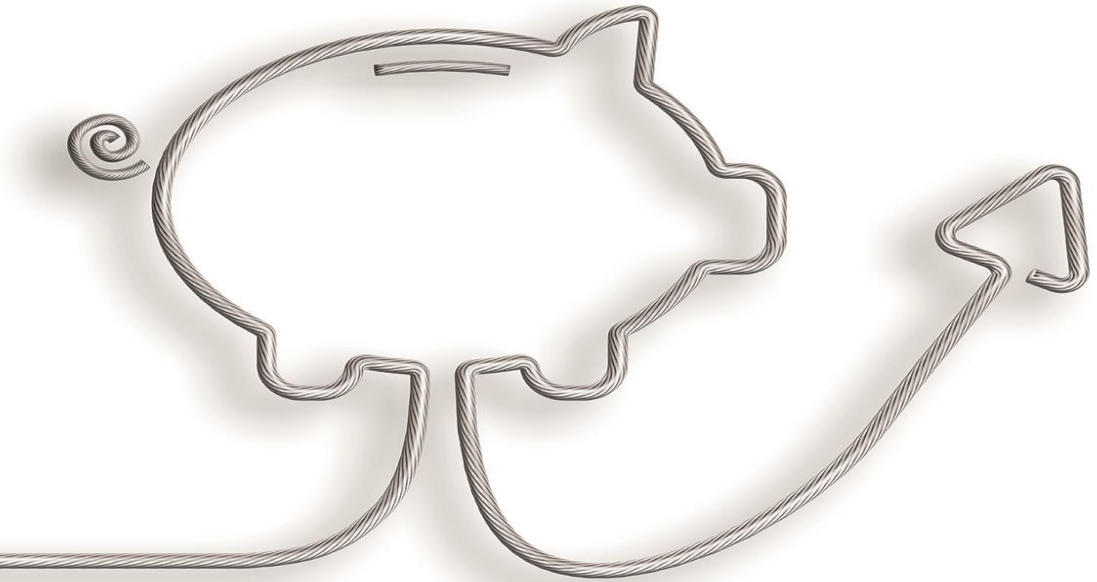






Individual Benefit Calculation

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Get a better understanding of your individual Benefit

Latest gen. of NIEHOFF Rod Breakdown Lines

(HEAT-technology & Benefit-calculation)

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Parameters to calculate individual savings for **your production**:

- Production hours (per a) (h)
- Current lines in production (Niehoff mc# / other)
- Current OEE % of existing line(s) (OEE%)
- Energy cost (€ / kWh)
- Labor cost (€ / h)
- Total production of each diameter (per a) (t / ø)

Benefit Calculation (ROI) – Practical Example

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Practical Example

Italy
2025

36000 t/a

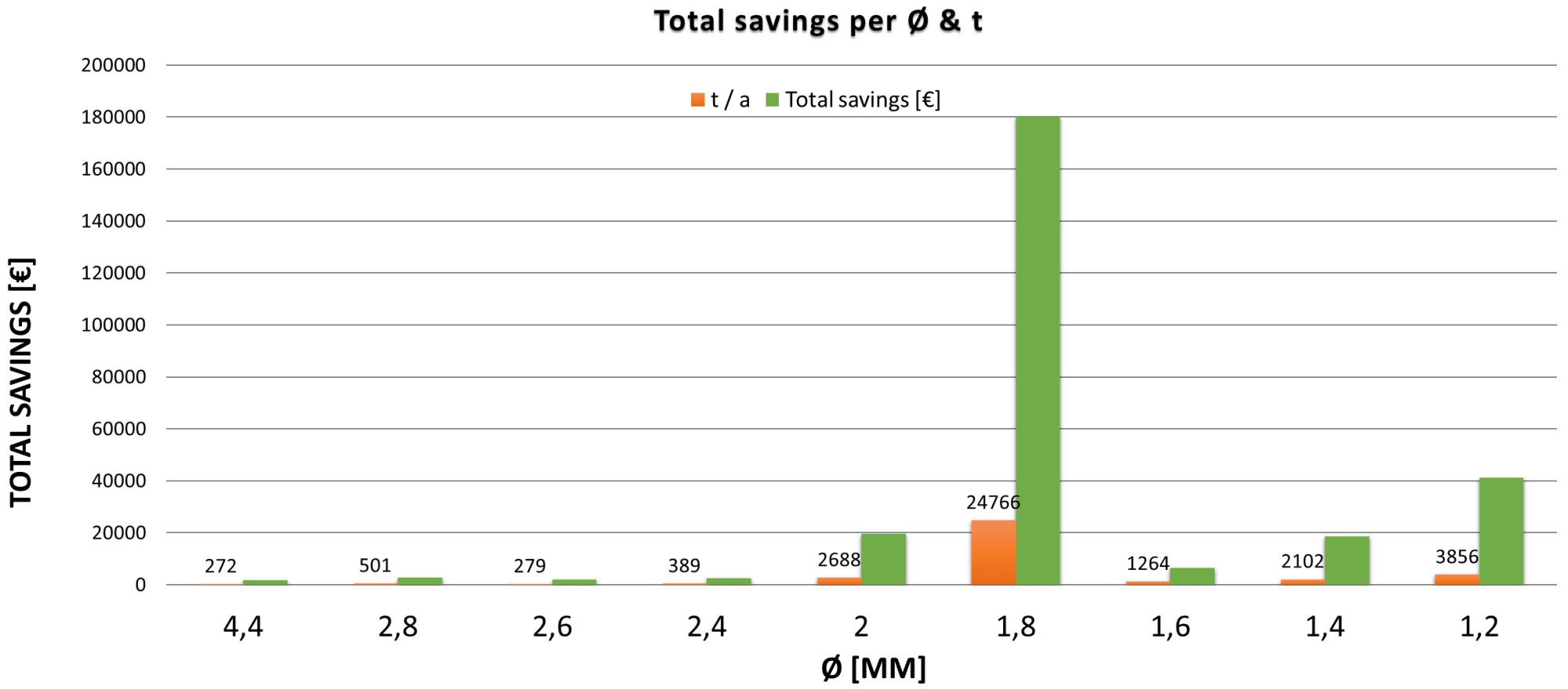


Global Parameter		
Energycost	0,1	€/kWh
Production time (100%)	6500	h
OEE old gen.	70	%
Production time (%)	4550	h
OEE new gen.	85	%
Production time (%)	5525	h
Labour costs	10,00	€/h

No	Machine	Supplier	Year	Serial No
1	RBD single wire	Other	NA	NA
2	MM85	Niehoff	1989	19.045147
3	MM85	Niehoff	1991	19.046200
4	MM85	Niehoff	1995	19.048964

Benefit Calculation (ROI) – Practical Example

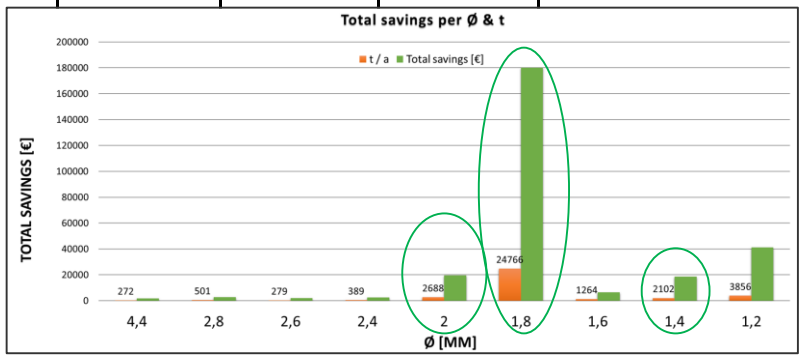
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Benefit Calculation (ROI) – Practical Example

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		Input	Result					ROI calculation				
ø [mm]	t / a	MC - Type	Total € / t	Production Costs [€]	Total savings [€]	h per MC Ø & t	h savings	Choose for ROI calc.	transfer t/a	transfer h per Mc	transfer €/a	transfer kWh/ø
4,4	272	Old Gen.	16,41	4.463,52 €	1.796,80 €	139		x	29.556 t/a	5.450 h/a	218.168 €/a	1.260.856 kWh
		New Gen.	9,80	2.666,72 €		57	82					
2,8	501	Old Gen.	16,67	8.351,06 €	2.820,47 €	129		x				
		New Gen.	11,04	5.530,59 €		57	72					
2,6	279	Old Gen.	18,74	5.227,64 €	2.059,08 €	124		x				
		New Gen.	11,36	3.168,57 €		29	94					
2,4	389	Old Gen.	18,70	7.274,00 €	2.584,59 €	140		x				
		New Gen.	12,06	4.689,42 €		45	95					
2	2688	Old Gen.	20,73	55.730,76 €	19.573,91 €	1192		used for ROI calc.				
		New Gen.	13,45	36.156,86 €		390	802					
1,8	24766	Old Gen.	21,96	543.899,41 €	180.046,77 €	12040		used for ROI calc.				
		New Gen.	14,69	363.852,64 €		4437	7603					
1,6	1264	Old Gen.	21,25	26.862,70 €	6.553,36 €	639		x				
		New Gen.	16,07	20.309,34 €		287	352					
1,4	2102	Old Gen.	26,79	56.303,05 €	18.547,65 €	1426		used for ROI calc.				
		New Gen.	17,96	37.755,40 €		623	804					
1,2	3856	Old Gen.	31,18	120.236,16 €	41.068,07 €	3463		x				
		New Gen.	20,53	79.168,09 €		1554	1909					

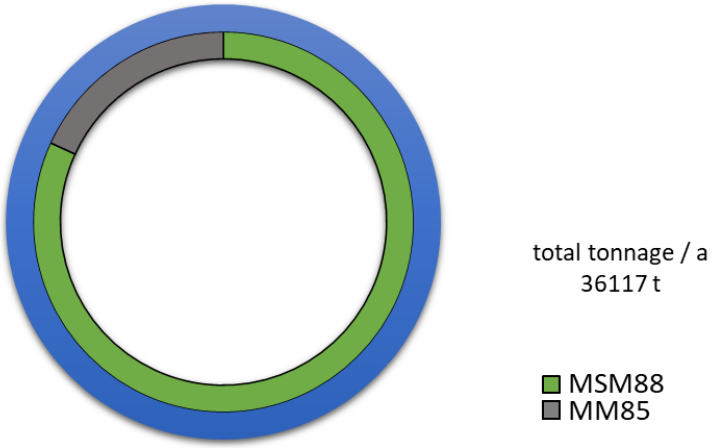


Benefit Calculation (ROI) – Practical Example

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No	Machine	Supplier	Year	Serial No		New Setup	split t / a
1	RBD single wire	Other	NA	NA	to be sold and replaced by NEW MSM88 line	MSM88	29556
2	MM85	Niehoff	1989	19.045147	to be sold and replaced by NEW MSM88 line		
3	MM85	Niehoff	1991	19.046200	to be sold and replaced by NEW MSM88 line		
4	MM85	Niehoff	1995	19.048964	to be used for further production 3867 h	MM85	6561
						total tonnage / a	36117

Mc distribution - total tonnage / a



ø [inch]	ø [mm]	t / a
0,1732	4,4	272
0,1181	3	501
0,1024	2,6	279
0,0945	2,4	389
0,0787	2	by MSM88
0,0709	1,8	by MSM88
0,0630	1,6	1264
0,0551	1,4	by MSM88
0,0472	1,2	3856
	left	**6561 t/a**

One new MSM line replaces three older RBD lines (No. 1, 2 & 3)

Return on investment: **3,49 years**

Savings/year: **218.000 €**

Interested in your individual Benefit?

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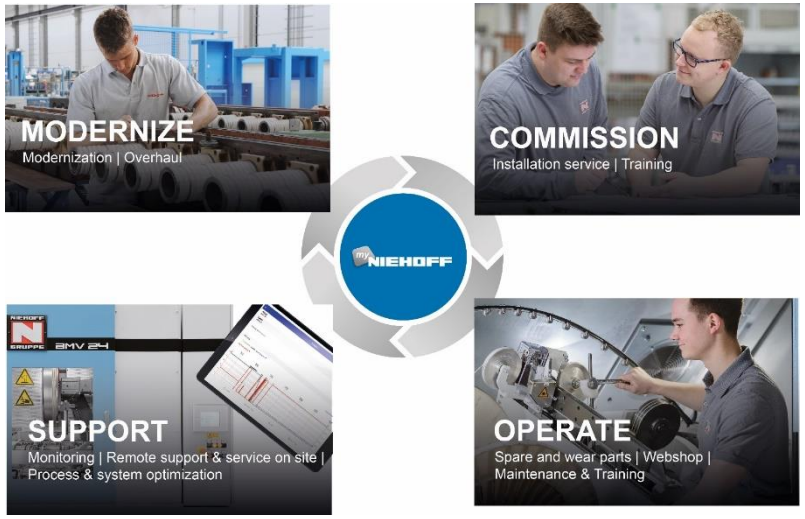


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NIEHOFF LIFECYCLE+

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