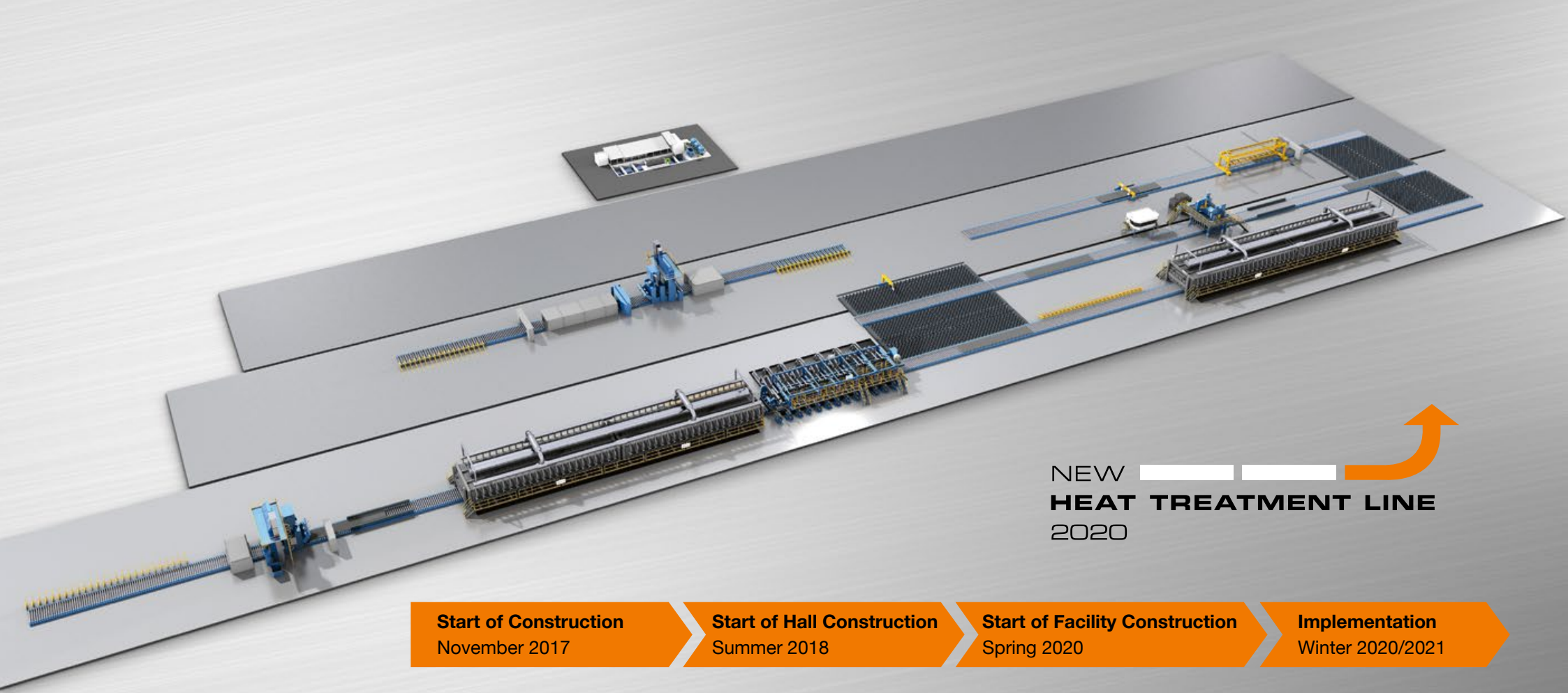


NEW  
HEAT TREATMENT LINE  
2020







The energy-efficient heat treatment line fulfills the highest standards placed on quality and flatness. With its extremely flexible cooling-down strategies, the integrated MultiFlex-Quench® enables the production of a broad product portfolio, including particularly sophisticated heavy plate grades.

Portfolio – New Heat Treatment Line	
More than 350 steel grades/analyses	
Thickness	5–175 mm
Width	max. 3,500 mm
Length	max. 16,000 mm
Piece weight	max. 28 t

Technical Concept
New construction of 3 halls
Built-up area of the halls: 31,290 square meters
Furnace and quenching line
Heat treatment furnace
Cold leveling machine
Milling, shot blasting and coating line
<b>Investment volume: more than € 150 million</b>

## TABLE OF DIMENSIONS – “NEW HEAT TREATMENT LINE”

Maximum plate lengths with widths in m																																		
Thickness	800	900	1.000	1.100	1.200	1.300	1.400	1.500	1.600	1.700	1.800	1.900	2.000	2.100	2.200	2.300	2.400	2.500	2.600	2.700	2.800	2.900	3.000	3.100	3.200	3.300	3.400	3.500	Thickness					
5		16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	12,0*	12,0*	12,0*	12,0*	12,0*	12,0*	12,0*	12,0*		5						
>5 ≤ 6		16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	12,0*	12,0*	12,0*	12,0*	12,0*	12,0*	12,0*	12,0*		>5 ≤ 6						
>6 ≤ 7		16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	>6 ≤ 7					
>7 ≤ 8		16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	>7 ≤ 8					
>8 ≤ 9		16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	12,0	>8 ≤ 9					
>9 ≤ 10		16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>9 ≤ 10					
>10 ≤ 15			16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>10 ≤ 15					
>15 ≤ 20	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>15 ≤ 20					
>20 ≤ 25	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>20 ≤ 25					
>25 ≤ 30	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>25 ≤ 30					
>30 ≤ 35	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>30 ≤ 35					
>35 ≤ 40	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>35 ≤ 40					
>40 ≤ 45	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>40 ≤ 45					
>45 ≤ 50	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	>45 ≤ 50					
>50 ≤ 55	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	15,8	15,2	14,8	14,4	14,4	13,6*	>50 ≤ 55				
>55 ≤ 60	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	15,6	15,0	14,5	14,0	13,6	13,2	12,8	12,4 *	>55 ≤ 60				
>60 ≤ 65	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	15,7	16,0	15,5	14,9	14,4	13,9	13,4	13,0	12,6	12,2	11,8	11,5 *	>60 ≤ 65
>65 ≤ 70	16,0	16,0	16,0	16,0	16,0	16,0	15,2	16,0	16,0	16,0	15,2	16,0	15,2	16,0	15,2	16,0	15,2	14,6	16,0	14,4	13,8	13,3	12,9	12,4	12,0	11,7	11,3	11,0	10,7 *	>65 ≤ 70				
>70 ≤ 75	16,0	16,0	16,0	16,0	16,0	14,2	16,0	16,0	16,0	14,2	16,0	14,2	16,0	14,2	16,0	14,2	13,6	16,0	13,4	12,9	12,4	12,0	11,6	11,2	10,9	10,6	10,2	9,9	9,6	10,0 *	>70 ≤ 75			
>75 ≤ 80	16,0	16,0	16,0	16,0	16,0	13,3	16,0	16,0	16,0	13,3	16,0	13,3	16,0	13,3	16,0	13,3	12,8	16,0	12,6	12,1	11,7	11,3	10,9	10,5	10,2	9,9	9,6	9,6	9,3 *	>75 ≤ 80				
>80 ≤ 85	16,0	16,0	16,0	16,0	16,0	12,5	16,0	16,0	16,0	12,5	16,0	12,5	16,0	12,5	16,0	12,5	12,0	16,0	11,8	11,4	11,0	10,6	10,2	12,5	9,9	9,6	9,0	8,8 *	>80 ≤ 85					
>85 ≤ 90	16,0	16,0	16,0	16,0	16,0	11,8	16,0	16,0	16,0	11,8	16,0	11,8	16,0	11,8	16,0	11,3	15,9	11,2	10,8	10,4	10,0	9,7	9,4	9,1	8,8	8,5	8,3 *	>85 ≤ 90						
>90 ≤ 95	16,0	16,0	16,0	16,0	16,0	11,2	16,0	16,0	16,0	11,2	16,0	11,2	16,0	11,2	16,0	11,2	10,8	15,0	10,6	10,2	9,8	9,5	9,2	8,9	8,6	8,3	8,1	7,9 *	>90 ≤ 95					
>95 ≤ 100	16,0	16,0	16,0	16,0	16,0	10,7	16,0	16,0	16,0	10,7	16,0	10,7	16,0	10,7	16,0	10,7	10,2	14,3	10,0	9,7	9,3	9,0	8,7	8,4	8,2	7,9	7,7	7,5 *	>95 ≤ 100					
>100 ≤ 105	16,0	16,0	16,0	15,4	16,0	10,2	16,0	16,0	16,0	10,2	16,0	10,2	16,0	10,2	15,4	10,2	9,7	13,6	9,6	9,2	8,9	8,6	8,3	8,0	7,8	7,5	7,3	7,1 *	>100 ≤ 105					
>105 ≤ 110	16,0	16,0	16,0	14,7	16,0	9,7	16,0	16,0	16,0	9,7	16,0	9,7	16,0	9,7	14,7	9,7	9,3	13,0	9,1	8,8	8,5	8,2	7,9	7,7	7,4	7,2	7,0	6,8 *	>105 ≤ 110					
>110 ≤ 115	16,0	16,0	15,5	14,1	16,0	9,3	16,0	16,0	16,0	9,3	16,0	9,3	15,5	9,3	14,1	9,3	8,9	12,4	8,7	8,4	8,1	7,8	7,6	7,3	7,1	6,9	6,7	6,5 *	>110 ≤ 115					
>115 ≤ 120	16,0	16,0	14,9	13,5	16,0	8,9	16,0	16,0	16,0	8,9	16,0	8,9	14,9	8,9	13,5	8,9	8,5	11,9	8,4	8,1	7,8	7,5	7,3	7,0	6,8	6,6	6,4	6,2 *	>115 ≤ 120					
>120 ≤ 125	16,0	15,9	14,3	13,0	16,0	8,5	16,0	16,0	16,0	8,5	15,9	8,5	14,3	8,5	13,0	8,5	8,2	11,4	8,0	7,7	7,5	7,2	7,0	6,7	6,5	6,3	6,1	6,0 *	>120 ≤ 125					
>125 ≤ 130	16,0	15,2	13,7	12,5	16,0	8,2	16,0	16,0	16,0	8,2	15,2	8,2	13,7	8,2	12,5	8,2	7,9	11,0	7,7	7,4	7,2	6,9	6,7	6,5	6,3	6,1	5,9	5,7 *	>125 ≤ 130					
>130 ≤ 135	16,0	14,7	13,2	12,0	16,0	7,9	16,0	16,0	16,0	7,9	14,7	7,9	13,2	7,9	12,0	7,9	7,6	10,6	7,4	7,2	6,9	6,7	6,5	6,2	6,0	5,9	5,7	5,5 *	>130 ≤ 135					
>135 ≤ 140	15,9	14,2	12,7	11,6	16,0	7,6	16,0	16,0	15,9	7,6	14,2	7,6	12,7	7,6	11,6	7,6	7,3	10,2	7,2	6,9	6,7	6,4	6,2	6,0	5,8	5,7	5,5	5,3 *	>135 ≤ 140					
>140 ≤ 145	15,4	13,7	12,3	11,2	16,0	7,4	16,0	16,0	15,4	7,4	13,7	7,4	12,3	7,4	11,2	7,4	7,0	9,8	6,9	6,7	6,4	6,2	6,0	5,8	5,6	5,5	5,3	5,1 *	>140 ≤ 145					
>145 ≤ 150	14,9	13,2	11,9	10,8	16,0	7,1	16,0	15,9	14,9	7,1	13,2	7,1	12,3	7,1	10,8	7,1	6,8	9,5	6,7	6,5	6,2	6,0	5,8	5,6	5,4	5,3	5,1	5,0 *	>145 ≤ 150					
>150 ≤ 155	14,4	12,8	11,5	10,5	16,0	6,9	16,0	15,3	14,4	6,9	12,8	6,9	11,5	6,9	10,5	6,9	6,6	9,2	6,5	6,2	6,0	5,8	5,6	5,4	5,3	5,1	5,0	4,8 *	>150 ≤ 155					
>155 ≤ 160	13,9	12,4	11,1	10,1	16,0	6,7	15,9	14,9	13,9	6,7	12,4	6,7	11,1	6,7	10,1	6,7	6,4	8,9	6,3	6,0	5,8	5,6	5,4	5,3	5,1	4,9	4,8	4,7 *	>155 ≤ 160					
>160 ≤ 165	13,5	12,0	10,8	9,8	16,0	6,5	15,4	14,4	13,5	6,5	12,0	6,5	10,8	6,5	9,8	6,5	6,2	8,6	6,1	5,9	5,7	5,5	5,3	5,1	4,9	4,8	4,7	4,5 *	>160 ≤ 165					
>165 ≤ 170	13,1	11,7	10,5	9,5	16,0	6,3	15,0	14,0	13,1	6,3	11,7	6,3	10,5	6,3	9,5	6,3	6,0	8,4	5,9	5,7	5,5	5,3	5,1	5,0	4,8	4,7	4,5	4,4 *	>165 ≤ 170					
>170 ≤ 175	12,7	11,3	10,2	9,3	16,0	6,1	14,6	13,6	12,7	6,1	11,3	6,1	10,2	6,1	9,3	6,1	5,8	8,2	5,7	5,5	5,3	5,1	5,0	4,8	4,7	4,5	4,4	4,3 *	>170 ≤ 175					

Nickel alloyed steels as of 5 mm.

Also available in longer lengths.

\* Widths > 3,450 mm only on request.

Scope of application for quenched and tempered steels



### Abrasion Resistant Steels

**Yellow Goods** (construction and earth moving machines, mobile cranes, mining)  
**Special Machines** (road construction, recycling)  
**Part Business** (cutting tools, excavator shovels, sieves, chutes, drums)



### High-Strength Steels

**Yellow Goods**  
**Engineering**  
**Offshore**  
**Shipbuilding**



Ilsenburger Grobblech GmbH  
Veckenstedter Weg 10  
38871 Ilsenburg  
Germany  
Phone: +49 39452 85-0  
Fax: +49 39452 85-8161

E-mail: [ILG.Sales@salzgitter-ag.de](mailto:ILG.Sales@salzgitter-ag.de)  
[www.ilsenburger-grobblech.de](http://www.ilsenburger-grobblech.de)

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