

**REFERENCE LIST FOR ELECTROSTATIC OILING MACHINES**

No.	Customer/ Enduser	Line	Line for (Steel, Alu)	Line speed (m/min.) min.	Line speed (m/min.) max.	Oil quantity (g/m <sup>2</sup> ) min.	Oil quantity (g/m <sup>2</sup> ) max.	No. of Oil types	Machine for Strip	Machine for Sheets	Delivery/ Comm. Date	Spraybar width mm	Retractable	Tank Material	Oiltype
1	Thyssen Stahl AG, Duisburg	Pickle Line	Steel					3	x		Apr 83	2200	No		
2	Thyssen Stahl AG, Duisburg	Shearing Line	Steel					1	x		Apr 83	2200	No		
3	Thyssen Stahl AG, Duisburg	Coating Line	Steel					2	x		July 83	2200	No		
4	Krupp Stahl AG, Bochum/Lethmathe	Electro-Galvanizing Line	Steel					1	x		Aug 83	1700	No		
5	Thyssen Stahl AG, Duisburg	Fine Slitting Line	Steel					1	x		Oct. 83	1900	No		
6	Thyssen Stahl AG, Duisburg	Slitting Line	Steel					1	x		Jan 84	1700	No		
7	Thyssen Stahl AG, Duisburg	Pickle Line	Steel					3	x		Apr 84	1500	No		
8	Hoogovens, Ijmuiden/NL	Pickle Line	Steel					3	x		Sep 84	2300	No		
9	Hoogovens, Ijmuiden/NL	Slitting Line	Steel					2	x		Jan 85	2300	No		
10	Thyssen Stahl AG, Duisburg	Cross-Cutting Line	Steel					3		x	Mar. 85	2200	Yes		
11	Sundwiger Eisenhütte/ Union Steel Corea	Electro-Galvanizing Line	Steel					1	x		Mar.85	1500	No		
12	CMI/ Segal Belgium	Galvanizing Line	Steel					4	x		Apr 85	2000	No		
13	Thyssen Stahl AG, Duisburg	Cross-Cutting Line	Steel					1		x	Mai 85	1350	No		
14	Hoogovens, Ijmuiden/NL	Recoiling Line	Steel					2	x		Jun 85	2300	No		
15	Thyssen Stahl AG, Duisburg	Cross-Cutting Line	Steel					1		x	Jul 85	2200	No		
16	Galvanor, Montataire/France	Slitting Line	Steel					2	x		Jul 85	2000	Yes		
17	Thyssen-Grillo-Funke GmbH, Gelsenkirchen	Pickle Line	Steel					1	x		Jul 85	1300	No		
18	Usinor, Biache / France	Inspection Line	Steel					2	x		Jul 85	1700	Yes		

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19	Sundwiger Eisenhütte/ Krupp Stahl AG, Bochum	Recoiling Line	Steel					1	x		Aug 85	1800	No		
20	Cockerill-Sambre, Seraing/Belgium	Cross-Cutting Line	Steel					2		x	Aug 85	1700	Yes		
21	Klöckner Werke AG, Bremen	Pickle Line	Steel					4	x		Sep 85	2200	No		
22	Thyssen Stahl AG, Duisburg	Slitting Line	Steel					2	x		Okt 85				
23	Italsider, Genua/ Italy	Recoiling Line	Steel					1	x		Nov 85	2000	No		
24	Thyssen Stahl AG, Duisburg	Electro-Galvanizing Line	Steel					1	x		Dec. 85	1700	No		
25	Thyssen-Grillo-Funke GmbH	Annealing Line	Steel					1	x		Dec. 85	1300	No		
26	Peine -Salzgitter AG, Salzgitter	Slitting Line	Steel					1	x		Dec. 85	2000	Yes		
27	Thyssen Stahl AG, Duisburg	Recoiling Line	Steel					1	x		Jan 86				
28	Italsider, Genua / Italy	Inspection Line	Steel					1	x		Jan 86				
29	Voest Alpine AG, Austria	Electro-Galvanizing Line	Steel					2	x		Mar. 86	1700	Yes		
30	Stahlwerke Bochum AG, Bochum	Pickle Line	Steel					3	x		Mrz 86	1700	No		
31	Peine-Salzgitter AG, Salzgitter	Slitting Line	Steel					1	x		Apr 86	1600	No		
32	Segal, Ivoz Ramet/ Belgium	Inspection Line	Steel					4	x		Apr 86	2000			
33	Thyssen Stahl AG, Duisburg	Electro-Galvanizing Line	Steel					1	x		Jun 86				
34	Thyssen Stahl AG, Duisburg	Inspection Line	Steel					1	x		Jun 86				
35	La Magona, Piombino/Italy	Annealing Line	Steel					1	x		July 86	1500	No		

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36	Italsider, Genua/ Italy	Pickle Line	Steel					2	x		July 86	2000			
37	Usinor, Biache/ France	Pickle Line	Steel					2	x		Aug 86	1700			
38	Krupp Stahl AG, Bochum	Recoiling Line	Steel					3	x		Sep 86				
39	WISCO, Wuhan/ China	Pickle Line	Steel					1	x		Sep 86	1700	No		
40	Krupp Stahl AG, Hohenlimburg	Inspection Line	Steel					1	x		Okt 86	800	No		
41	BWG/Krupp Stahl AG, Bochum	Pickle Line	Steel					3	x		Nov 86	1800	No		
42	Italsider, Genua/ Italy	Pickle Line	Steel					2	x		Dec. 86				
43	Thyssen-Handelsunion AG, Mannheim	Slitting Line	Steel					1	x		Dez 86	1600	No		
44	Ruthner/Peine Salzgitter AG	Galvanizing Line	Steel					1	x		Jan 87	2000			
45	Usinor, Mardyck/France	Inspection Line	Steel					2	x		Jan 87	2100			
46	Usinor, Montataire/France	Inspection Line	Steel					2	x		Jan 87	1700			
47	Delloye-Matthieu, Marchin /Belgium	Galvanizing Line	Steel					2	x		Jan 87	1400			
48	Sundwig/Klöckner Werke AG, Bremen	Inspection Line	Steel					1	x		Feb 87	1700			
49	Italsider, Genua/ Italy	Annealing Line	Steel					2	x		Apr 87				
50	Sidmar, Gent/ Belgium	Inspection Line	Steel					3	x		Apr 87	2100			
51	Clecim (F) / Hoogovens (NL)	Galvanizing Line	Steel					2	x		Apr 87	1700	No		
52	Sollac, Florange/France	Galvanizing Line	Steel					3	x		Jul 87				
53	Rautaruukki Oy/ Finland	Galvanizing Line	Steel					1	x		Okt 87	1600	Yes		

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54	Solmer, Fos-sur-mer/France	Pickle Line	Steel					2	x		Nov 87	2300			
55	DMS-Sollac, Florange/F	Annealing Line	Steel					3	x		Dez 87	1800	Yes		
56	Thyssen Stahl AG, Duisburg	Galvanizing Line	Steel					1	x		Jan 88				
57	Hoogovens, Ijmuiden/NL	Cross-Cutting Line	Steel					2	x		Mrz 88	2300	Yes		
58	Stahlwerke Bochum, Bochum	Inspection Line	Steel					2	x		Mrz 88	1700	Yes		
59	Alcoa, Drunen/Nederlande	Inspection Line	Alu					1	x		Jun 88	1400			
60	Andritz/ Prometal, Italy	Pickle Line	Steel					1	x		Jun 88	1700			
61	Beautor/ France	Electro-Galvanizing Line	Steel					2	x		Jun 88	1900			
62	PUM, Reims/ France	Pickle Line	Steel					2	x		Jul 88	1700			
63	BWG, Duisburg/BSC Trostre Works (GB)	Pickle Line	Steel					1	x		Okt 88	1400			
64	Alcoa Geelong/Australia	Inspection Line	Alu					3	x		Jan 89	1800			
65	Sollac, Florange/France	Inspection Line	Steel					3	x		Jan 89				
66	Sundwig/Tschelkowski /USSR	Inspection Line	Steel					1	x		Mai 89	800			
67	CMI/ La Magona (Italy)	Pickle Line	Steel					2	x		Jun 89	1500			
68	Klößner Stahl AG, Bremen	Inspection Line	Steel					1	x		July 89				
69	Thyssen Stahl AG, Duisburg	Pickle Line	Steel					3	x		Jul 89				
70	Sollac, Montataire/France	Galvanizing Line	Steel					2	x		Sep 89				
71	Arbed, Dudelange/Luxemburg	Inspection Line	Steel					1	x		Nov 89	1800			

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72	NKK, Fukuyama/Japan	Galvanizing Line	Steel					1	x		Aug 89				
73	Rasselstein/ Neuwied	Pickle Line	Steel					3	x		Okt 89	1800			Drylube
74	Delloye Matthieu, Belgium	Galvanizing Line	Steel					2	x		Mrz 90	2000			
75	Stahlwerke Peine Salzgitter	Cross-Cutting Line	Steel					1		x	Dez 89	2000			
76	Laminoirs de Straßbourg/France	Galvanizing Line	Steel					2	x		Jan 90	1600	Yes		
77	Thyssen Stahl AG, Duisburg	Galvanizing Line	Steel			0.5	3.5	2	x		Feb 90	1500	Yes		Drylube
78	Voest-Alpine, Linz, Austria	Galvanizing Line	Steel					2	x		Mrz 90	1700	Yes		Drylube
79	Klöckner Werke Bremen	Slitting Line	Steel			0.5	3.0	1	x		Okt 90	2200	Yes		
80	Sundwig/EKO-Stahl AG Germany	Slitting Line	Steel					1	x		Sep 90				
81	Sollac, Florange/France	Galvanizing Line	Steel					3	x		Jul 90	2000	Yes		
82	Voest-Alpine, Linz/Austria	Slitting Line	Steel					2	x		Aug 90	1700	Yes		
83	Thyssen, Finnentrop	Galvanizing Line	Steel					1	x		Sep 90	1800			
84	Hoogovens, Ijmuiden/NL	Slitting Line	Steel					1	x		Aug 90	1700	Yes		
85	Erdemir/Voest-Alpine, Linz/Austria	Pickle Line	Steel	15	240	0,5	2	3	x		Nov 90	1700	No		
86	Rasselstein AG, Neuwied	Recoiling Line	Steel	15	240	0.5	2.0	4	x		Aug 90	1800			Drylube
87	CMI/Belgium P&S Süd Afrika	Galvanizing Line	Steel	10	100	0.5	3.5	1	x		Nov 90	1700	No		
88	Sollac, Mardyck/France	Galvanizing Line	Steel	15	230	0.5	3.0	3	x		Nov 90	2100	Yes		
89	PUM, France	Skin-Pass	Steel	30	300	0.5	4.0	1	x		Dez 90	1700	Yes		

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90	Sollac Florange, France	Coating Line	Steel	20	120	0.5	4.5	2	x		Mrz 91	2000	Yes		
91	Sidmar, Gent/ Belgium	Recoiling Line	Steel	25	600	0.5	3.0	2	x		Mrz 91	2100	Yes		
92	Andritz Ruthner/ P+S Salzgitter	Pickle Line	Steel	15	90	0.5	3.0	1	x		Jul 91	1700	No		
93	Klöckner Stahl, Bremen	Slitting Line	Steel	30	350	0.5	3.0	2	x		Jun 91	2200	Yes		
94	NKK, Japan	Galvanizing Line	Steel					1	x		Jul 91				
95	Sundwig / P+S Salzgitter	Galvanizing Line	Steel	10	240	0.5	3.0	1	x		Dez 91	1800	Yes		
96	MDS/Krupp Stahl AG, Bochum	Galvanizing Line	Steel	30	360	0.3	5.0	2	x		Aug 91	1800	No		
97	Sundwig/ P+S Salzgitter	Recoiling Line	Steel	30	500	0.25	3.0	1	x		Aug 91	2000	Yes		
98	Thyssen Stahl AG, Duisburg	Galvanizing Line	Steel	15	220	0.5	3.0	2	x		Jan 92	2200	No		Drylube
99	EKO-Stahl AG, O- Eisenhüttenstadt	Cross-Cutting Line	Steel	45	360	0.5	3.0	1		x	Sep 91	1700	No		
100	EKO-Stahl AG, O- Eisenhüttenstadt	Pickle Line	Steel	40	350	0.5	3.0	2	x		Sep 91	2000	No		
101	Andritz Ruthner Wien/ Usiminas (Brasil)	Galvanizing Line	Steel	20	230	0.5	3.5	2	x		Okt 91	1800	No		
102	Clecim, France/ ILVA (Italy)	Pickle Line	Steel	30	440	0.8	3.0	1	x		Okt 91	2000	Yes		
103	Sidmar, Gent/ Belgium	Pickle Line	Steel	40	550	0.5	2.0	2	x		Okt 91	2100	No		
104	NKK/ Japan	Galvanizing Line	Steel					1	x		Jan 92		Yes		
105	DMS France/ILVA (Italy)	Galvanizing Line	Steel	30	310	0.5	4.5	3	x		Feb 92	2000	Yes		
106	Sollac Montataire, France	Galvanizing Line	Steel	30	176	0.5	4.5	2	x		Aug 92	1800	Yes		
107	Rautarukki, Finland	Recoiling Line	Steel	30	300	0.5	3.0	1	x		Jun 92	1700	Yes		

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108	Sidal, Belgium	Slitting Line	Alu	100	1000	0.1	0.5	4	x		Jul 92	1800	Yes		
109	Fröhling/ Alu-Norf	Recoiling Line	Alu	100	1000	0.1	0.3	1	x		Apr 92	2300	Yes		
110	UCA, Belgium	Skin-Pass	Copper	20	200	0,03	0,5	1	x		Jun 92	1200	Yes		
111	Bao-Steel/ Baoshan China	Cross-Cutting Line	Steel	24	260	0.5	3.0	2		x	Nov 92	1700	Yes		
112	Bao-Steel/ Baoshan China	Cross-Cutting Line	Steel	24	260	0.5	3.0	2		x	Nov 92	1700	Yes		
113	Bao-Steel/ Baoshan China	Recoiling Line	Steel	40	400	0.5	3.0	2	x		Nov 92	2000	Yes		
114	Bao-Steel/ Baoshan China	Recoiling Line 1	Steel	40	400	0.5	3.0	1	x		Nov 92	2000	Yes		
115	Sollac Mardyck/ France	Skin-Pass	Steel					2	x		Nov 92	2000	No		
116	MDS / BENXI China	Cross-Cutting Line	Steel	20	180	0.5	3.0	1		x	Dez 93	1600	No		
117	EKO-Stahl AG, Eisenhüttenstadt	Slitting Line	Steel	50	400	0.5	3.0	3	x		Apr 93	1600	No		
118	BWG Duisburg/Alcoa (USA)	Recoiling Line	Alu	23	300	0.008	0.1	1	x		Mrz 93	1900	Yes		
119	Maschinenfabrik H. Georg/ EKO Stahl	Recoiling Line	Steel	30	500	0.5	3.0	4	x		Aug 94	1700	No		
120	Krupp Hoesch Hohenlimburg	Pickle Line	Steel	40	400	0.5	3.7	2	x		Aug 94	800	Yes		
121	Finspong Aluminium, Sweden	Recoiling Line	Alu	20	400	0.05	0.25	1	x		Sep 94	1700	Yes		
122	Cockerill Sambre, Belgium	Galvanizing Line 7	Steel	20	220	0.5	3.0	4	x		Sep 94	1800	Yes		
123	Sundwiger Eisenhütte/ Novolipezkij	Slitting Line	Steel	50	400	0.5	3.0	2	x		Mai 95	2000	No		
124	BAOSTEEL / P.R. China	Cross-Cutting Line	Steel	24	155	0.5	3.0	2		x	Jul 95	2000	Yes		
125	Galvalange / Luxemburg	Galvanizing Line	Steel	30	140	0.2	4	3	x		Jul 95	1700	Yes		

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126	Voest-Alpine Stahl, Linz (Austria)	Pickle Line	Steel	30	300	0.5	3.0	3	x		Aug 95	1700	No		
127	Krupp Hoesch, Hohenlimburg	Pickle Line	Steel	20	120	0.5	3.0	3	x		Nov 95	800	Yes		
128	USIMINAS Brasil	Cross-Cutting Line	Steel	30	130	0.3	3.0	2		x	Feb 96	1700	No		
129	USIMINAS Brasil	Cross-Cutting Line	Steel	30	130	0.3	3.0	2		x	Feb 96	1700	Yes		
130	Wickeder Westfahlenstahl	Stretch leveling	Steel	30	300	0.1	1.0	2	x		Dez 95	900	No		
131	BOEL, Belgium	Pickle Line	Steel	15	160	0.5	3.0	3	x		Aug 96	1800	No		Drylube
132	PSAG, Salzgitter, Germany	Slitting Line	Steel	30	500	0.5	2.5	3	x		Aug 97	2000	Yes		Drylube
133	Sollac, Florange, France	Inspection Line	Steel	15	200	0.5	3.0	6	x		Mrz 97	2000	Yes		
134	Sundwiger Eisenhütte/ Novolipezkij	Annealing Line	Steel	30	300	0.5	3.0	2	x		Jul 97	1700	No		
135	Sundwig/ Novolipezkij	Slitting Line 8	Steel	50	400	0.5	3.0	2	x		Okt 97	2000	No		
136	Sollac, Florange, France	Skin-Pass	Steel	50	1220	0.5	4.0	3	x		Jul 97	1900	Yes		
137	Thyssen Stahl AG, Duisburg	Slitting Line	Steel	27	300	0,4	3,5	2	x		Sep 97	1800	No		
138	Sidmar (GALTEC), Belgium	Galvanizing Line	Steel	30	240	0,5	2,0	2	x		Apr 97	2100	Yes		
139	Sollac, Biache / France	Skin-Pass	Steel	40	1500	0.3	5.5	3	x		Sep 97	1600	No		
140	Sollac, Mardyck / France	Galvanizing Line	Steel	20	240	0.4	4.0	3	x		Okt 97	2000	No		
141	Andritz Ruthner / China	Galvanizing Line	Steel					1	x		Feb 98	1700	Yes		
142	Decosteel Belgien	Coating Line	Steel	25	95	0.5	3.0	2	x		Sep 97	1700	Yes		
143	Danieli USA, USIMINAS	Annealing Line	Steel	60	400	0.3	3.0	3	x		Mrz 98	2000	Yes		



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144	Preussag Stahl, Salzgitter	Pickle Line	Steel					1	x		Mrz 98		No		
145	SMS/ Baosteel China	Galvanizing Line	Steel	25	250	0.2	2.0	3	x		Feb 99	2000	Yes		
146	CSN, Brasil	Recoiling Line	Steel	50	500	0.5	3.0	2	x		Apr 98	1700	Yes		
147	Andritz/ Baosteel China	Electro-Galvanizing Line	Steel	30	270	0.5	3.0	2	x		Feb 99	2000	Yes		
148	Wickeder Westfahlenstahl	Stretch leveling	Steel	30	300	0.1	1.0	2	x		Dez 98	1200	Yes		
149	Kvaerner, France, for USIMINAS, Brasil	Inspection Line 4	Steel	30	300	0.2	3.0	3	x		Dez 98	2000	Yes		
150	Kvaerner, France, for USIMINAS, Brasil	Inspection Line	Steel	30	300	0.2	3.0	3	x		Jan 99	2000	Yes		
151	Kvaerner, France, for USIMINAS, Brasil	Inspection Line	Steel	30	300	0.2	3.0	3	x		Feb 99	2000	Yes		
152	Ryosen/WTC, Japan, for Baosteel, China	Inspection Line	Steel	30	150	0.05	3.0	2	x		Mai 99	2000	Yes		
153	Ryosen/WTC, Japan, for Baosteel, China	Inspection Line	Steel	30	150	0.05	3.0	2	x		Mai 99	2000	Yes		
154	Rautaruukki Oy; Finland	Galvanizing Line	Steel	30	230	0.3	3.0	2	x		Sep 99	1700	Yes		
155	Voest Stahl AG, Linz, Austria	Coating Line	Steel	20	180	0.5	5.0	3	x		Sep 99	1800	Yes		
156	Andritz für Fa. Giebel, Luxembourg	Galvanizing Line	Steel	20	120	0.5	3.0	2	x		Nov 99	1700	Yes		
157	CMI für GALTEC, Belgium, SIDGAL 2	Galvanizing Line	Steel	30	240	0.25	2.5	2	x		Nov 99	1500	Yes		
158	CMI für GALTEC, Belgium, SIDGAL 3	Galvanizing Line	Steel	30	240	0.25	2.5	4	x		Dez 99	2100	Yes		
159	BAOSTEEL / P.R. China	Pickle Line	Steel	30	270	0.15	3.0	2	x		Sep 00	1800	Yes		
160	Thyssen Krupp Stahl, Eichen	Coating Line	Steel	15	180	0.3	3.0	3	x		Dez 99	1820	No		
161	CMI, Belgien / NISCO, IRAN	Galvanizing Line	Steel	12	120	0.5	2.0	2	x		Nov 00	1700	No		

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162	Thyssen Krupp Stahl, Ferndorf	Galvanizing Line	Steel	10	230	0.2	3.0	3	x		Aug 00	1750	No		
163	VAI CLECIM, COSIPA, Brasilien	Inspection Line	Steel	45	450	0.2	3.0	2	x		Nov 00	1700	Yes		
164	Voest Stahl AG, Linz, Austria	Galvanizing Line	Steel	15	150	0.5	5.0	3	x		Jan 01	1700	Yes		Drylube
165	CSN, Volta Redonde Brasil	Annealing Line	Steel	30	310	0.1	2.0	4	x		Mai 01	1700	Yes		
166	CSN, Volta Redonde Brasil	Pickle Line	Steel	30	457	0.5	3.0	3	x		Jan 01	1400	Yes		
167	CSN, Volta Redonde Brasil	Pickle Line	Steel	30	457	0.5	3.0	4	x		Mrz 01	1700	Yes		
168	Andritz AG, TKS Bochum	Pickle Line	Steel	20	200	0.2	3.0	4	x		Mai 01	1890	No		Drylube
169	Presind S.r.l. for ILVA Taranto	Inspection Line	Steel	30	600	0.5	2.5	1	x		Feb 01	1700	No		
170	Voest Stahl AG, Linz, Austria	Slitting Line	Steel	20	150	0.2	3.0	3	x		Aug 01	1700	Yes		
171	CMI, Belgien / Anshan China	Galvanizing Line 2	Steel	30	220	0.2	2.0	3	x		Apr 02	2200	No		
172	CMI, Belgien / Anshan China	Galvanizing Line 1	Steel	30	240	0.2	2.0	2	x		Jun 02	1900	No		
173	Alcoa, Alicante, Spain	Recoiling Line	Alu	20	200	0.008	0.02	1	x		Apr 02	1400	Yes	Stainless Steel	DOS
174	Sundwig GmbH / Lipezk, Rußland	Inspection Line	Steel	50	300	0.3	3.0	2	x		Jun 02	2000	No		
175	CMI, Belgien / Anshan China	Galvanizing Line 3	Steel	30	240	0.2	0.2	2	x		Dez 02	1900	No		
176	SIDMAR, für Dekosteel 2	Coating Line	Steel	20	200	0.5	2.0	3	x		Sep 02	1900	Yes		
177	Stahlwerke Bremen, Germany	Skin Pass	Steel	50	1200	0.5	4.0	1	x		Dez 02	2030	No		
178	Tagal Dalian, China	Inspection Line	Steel	30	300	0.2	3.0	3	x		Dez 03	2200	No		Drylube
179	Georg Kreuztal for Baosteel	Cross-Cutting Line	Steel	20	125	0.05	3.0	3		x	Mrz 04	2000	Yes		

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180	Voest Alpine AG, Austria	Coating Line	Steel	20	200	0.2	3.0	2	x		Aug 03	2000	Yes		
181	SMS-DEMAG SeAH Steel, Korea	Galvanizing Line	Steel	20	280	0.05	1.0	2	x		Aug 04	1400	Yes		
182	SMS-DEMAG Masteel, China	Galvanizing Line	Steel	20	250	0.3	2.5	3	x		Dez 04	1700	Yes		
183	EKO Stahl Eisenhüttenstadt	Galvanizing Line 1	Steel	20	200	0.2	3.0	3	x		Apr 04	1700	Yes		
184	SMS-DEMAG Anshan, China	Annealing Line	Steel	30	820	0.5	2.0	2	x		Jan 05	2200	No		
185	TECHINT, LISCO, Lybien	Pickle Line	Steel	20	120	0.2	3.0	2	x		Aug 04	1400	No		
186	SMS-DEMAG WISCO, China	CGL 1	Steel	20	290	0.5	2.5	3	x		Mai 05	2200	Yes		Drylube
187	SMS-DEMAG WISCO, China	CGL 2	Steel	20	270	0.5	2.5	3	x		Mai 05	1800	Yes		Drylube
188	SMS-DEMAG WISCO, China	CGL 3	Steel	20	270	0.5	2.5	3	x		Mai 05	1800	Yes		Drylube
189	ThyssenKrupp Bochum	CGL 7	Steel	20	200	0.5	3.0	4	x		Jan 05	1800	No		
190	SMS-DEMAG WISCO, China	CAL	Steel	30	820	0.3	3.0	2	x		Jul 05	2200	Yes		
191	Anshan New Steel, China	CGL 4	Steel	30	240	0.3	2.5	2	x		Apr 05	1900	No		
192	Anshan New Steel, China	CGL 5	Steel	30	240	0.3	2.5	2	x		Apr 05	1900	No		
193	Ungerer/ Anshan New Steel, China	Slitting Line	Steel	20	180	0.3	2.0	2	x		Aug 05	2100	No		
194	Ungerer/ Anshan New Steel, China	Cross-Cutting Line	Steel	20	140	0.3	2.0	2		x	Aug 05	2100	No		
195	Sundwig, WISCO, China	Inspection Line	Steel	30	200	0.3	3.0	2	x		Mai 05	2200	Yes		
196	Sundwig, WISCO, China	Slitting Line	Steel	30	200	0.3	3.0	2	x		Mai 05	2200	Yes		
197	Ungerer, WISCO, China	Cross-Cutting Line	Steel	10	250	0.1	3.0	2		x	Jul 05	2200	Yes		

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198	Ungerer, WISCO, China	Cross-Cutting Line	Steel	10	250	0.1	3.0	2		x	Jul 05	2200	Yes		
199	Voest Stahl AG, Linz, Austria	CGL 4	Steel	12	350	0.3	2.0	3	x		Mai 06	2000	Yes		Drylube
200	Voest Stahl AG, Linz, Austria	Inspection Line	Steel	20	500	0.3	2.0	3	x		Mai 06	2000	Yes		
201	SMS-DEMAG Kosice	CGL 2	Steel	30	260	0.5	2.5	3	x		Mai 06	2000	Yes		
202	CMI, Masteel China	CGL 1	Steel	30	270	0.2	2.0	3	x		Dez 05	2200	Yes		
203	CMI, Masteel China	CGL 2	Steel	30	270	0.2	2.0	3	x		Dez 05	1800	Yes		
204	TKS Servicecenter Mannheim	Slitting Line	Steel	20	300	0.5	3.0	1	x		Feb 06	2000	No		
205	Voest Stahl AG, Linz, Austria	Pickle Line	Steel	20	210	0.2	3.0	3	x		Jun 06	1900	Yes		Drylube
206	DMS, Baosteel; China	CGL 1	Steel	20	260	0.2	3.0	3	x		Mrz 07	1800	Yes	Standard steel	
207	DMS, Baosteel; China	CGL 2	Steel	20	260	0.3	3.0	3	x		Mrz 07	1800	Yes	Standard steel	
208	CMI, Shougang; China	CGL 1	Steel	30	240	0.2	3.0	3	x		Nov 06	2000	Yes	Standard steel	
209	SMS, Shougang, China	Annealing Line	Steel	30	820	0.3	3.0	3	x		Dez 06	2000	Yes	Standard steel	
210	Hydro- Slim- Aluminium, Italien	Recoiling Line	Alu	30	250	0.005	0.03	1	x		Aug 06	1800	Yes	Stainless Steel	DOS
211	Hydro- Slim- Aluminium, Italien	Recoiling Line	Alu	30	300	0.2	1.5	1	x		Okt 06	1900	No	Standard steel	
212	Dongkuk, Korea	Slitting Line	Steel	20	300	0.3	3.0	2	x		Dez 06	1500	Yes	Standard steel	
213	Georg Kreuztal for Alcan Rhenalu	Slitting Line	Alu	30	800	0,1	1,5	2	x		Apr 07	2000	No	Standard steel	Drylube
214	Georg Kreuztal for Anshan	Annealing Line	Steel	20	820	0,1	1,5	2	x		Feb 07	1600	No	Standard steel	
215	Georg Kreuztal for Anshan	Annealing Line	Steel	20	820	0,1	1,5	2	x		Feb 07	1600	No	Standard steel	

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216	CMI, Beglien für TAGAL 2, China	CGL 2	Steel	20	220	0,2	2	3	x		Jul 07	2200	No	Standard steel	Drylube
217	Kohler Friesenheim für Angang	Recoiling Line	Steel	20	400	0,1	3	2	x		Apr 07	1600	No	Standard steel	Drylube
218	Kohler Friesenheim für Angang	Recoiling Line	Steel	20	400	0,1	3	2	x		Apr 07	1600	No	Standard steel	Drylube
219	Kohler Friesenheim für Angang	Recoiling Line	Steel	20	400	0,1	3	2	x		Apr 07	1600	No	Standard steel	Drylube
220	SMS Italien für ILVA Taranto	CGL	Steel	30	250	0,5	3	3	x		Jun 07	1800	Yes	Standard steel	
221	SMS Italien für ILVA Cornigliano	CGL	Steel	30	250	0,5	3	3	x		Jun 07	1800	Yes	Standard steel	
222	BWG Duisburg/ Alcan Frankreich	Recoiling Line	Alu	5	90	0,5	1,5	3	x		Dez 07	2200	No	Standard steel	Drylube
223	FIMI/ Masteel, China	Slitting Line	Steel	20	300	0,5	3	3	x		Aug 07	2100	Yes	Standard steel	
224	SMS/ CAL Shougang Jing Tang	CAL	Steel	50	820	0,5	3	3	x		Dez 07	1700	Yes	Standard steel	
225	USS Serbia, Serbien	Pickle Line	Steel	20	175	0,2	3	2	x		Jul 08	1800	No	Standard steel	
226	SMS/ Tokio Steel	Pickle Line	Steel	30	450	0,3	3,0	1	x		Dez 08	1800	Yes	Standard steel	
227	SMS/ ThyssenKrupp Steel USA	CGL1	Steel	20	300	0,2	3,0	5	x		Jun 09	2000	No	Standard steel	Drylube
228	SMS/ ThyssenKrupp Steel USA	CGL2	Steel	20	300	0,2	3,0	5	x		Jun 09	2000	No	Standard steel	Drylube
229	SMS/ ThyssenKrupp Steel USA	CGL3	Steel	20	300	0,2	3,0	5	x		Jun 09	2000	No	Standard steel	Drylube
230	SMS/ ThyssenKrupp Steel USA	CGL4	Steel	20	300	0,2	3,0	5	x		Jun 09	2000	No	Standard steel	Drylube

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231	SMS/ ThyssenKrupp Steel USA	Pickle Line	Steel	15	150	0,2	3,0	3	x		Jun 09	2000	Yes	Standard steel	Drylube
232	SMS/ MMK	CGL	Steel	20	250	0,2	2,5	3	x		Dez 08	2000	No	Standard steel	Drylube
233	SMS/ MMK	Recoiling Line	Steel	20	475	0,2	2,5	3	x		Dez 08	2000	No	Standard steel	Drylube
234	SMS/ MMK	Pickle Line	Steel	20	250	0,2	2,5	3	x		Dez 08	2000	No	Standard steel	Drylube
235	Arcelor Mittal Eisenhüttenstadt	Skin Pass	Steel	45	1500	0,3	4,0	3	x		Jul 09	1680	Yes	Standard steel	
236	SMS-DEMAG/ Wälzholz	2 Pickle Lines parallel	Steel	20	120	0,1	3	2	x		Mrz 09	1500/ 900	No	Standard steel	
237	CMI Belgien/ ILVA	CGL	Steel	20	270	0,2	2,5	3	x		Apr 09	2100	Yes	Standard steel	
238	SMS INNSE/ ILVA	CGL 4	Steel	30	250	0,5	3	3	x		Apr 09	1800	Yes	Standard steel	
239	SMS INNSE/ ILVA	Pickle Line	Steel	30	320	0,4	4	2	x		Mai 09	2000	Yes	Standard steel	
240	CMI-SHOUGANG JINGTANG	CGL 1	Steel	30	240	0,2	3	3	x		Apr 08	1700	Yes	Standard steel	
241	CMI-SHOUGANG JINGTANG	CGL 2	Steel	30	240	0,2	3	3	x		Apr 08	1700	Yes	Standard steel	
242	SMS INNSE/ ILVA	Pickle Line	Steel	30	250	0,5	6,5	3	x		Okt 09	1900	Yes	Standard steel	
243	SMS-DEMAG/ Handan China	CAL	Steel	40	820	0,2	3	3	x		Aug 09	2200	Yes	Standard steel	
244	SMS-SIEMAG/ Shougang JingTang	CAL 2	Steel	40	820	0,2	3	3	x		Nov 09	2200	Yes	Standard steel	
245	CMI/ Handan China	CGL 1	Steel	20	270	0,3	3	3	x		Aug 09	2100	Yes	Stainless steel	
246	CMI/ Handan China	CGL 2	Steel	20	270	0,3	3	3	x		Aug 09	2100	Yes	Stainless steel	
247	CMI/ Shougang JingTang	CGL 3	Steel	20	270	0,3	3	3	x		Nov 09	2200	Yes	Standard steel	

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248	CMI/ Shougang JingTang	CGL 4	Steel	20	270	0,3	3	3	x		Nov 09	1800	Yes	Stainless steel	
249	XiAn/ Shougang Jing Tang	Recoiling Line 2	Steel	18	220	0,2	2	3	x		Jul 10	2200	Yes	Standard steel	
250	XiAn/ Shougang Jing Tang	Recoiling Line 3	Steel	18	220	0,2	2	3	x		Jul 10	2200	Yes	Standard steel	
251	FIMI/ SSAB Sweden	Cut to length line	Steel	5	150	0,5	4,0	2		x	Nov 10	1800	Yes	Stainless steel	
252	Sofia Med, Bulgarien	Recoiling Line	Steel	10	200	0,5	3	1	x		Sep 10	1200	Yes	Standard steel	
253	Burghardt & Schmidt/ AMAG	Slitting line	Alu	20	600	0,3	1,2	5	x		Jun 11	2200	No	Standard steel	Drylube
254	SMS-SIEMAG/ USA	CAL	Steel	20	200	0,6	2,3	4	x		Jun 12	1800	Yes	Standard steel	Drylube
255	SMS-SIEMAG/ USA	RCL	Steel	30	300	0,6	2,3	4	x		Jun 12	1800	Yes	Standard steel	Drylube
256	SMS-SIEMAG/ Bhushan	CAL	Steel	30	700	0,2	3	3	x		Dez 11	1900	Yes	Standard steel	
257	SMS-SIEMAG/ ASAS Tükei	CCL	Steel	30	160	0,01	0,16	2	x		Nov 11	2200	Yes	Stainless Steel	DOS
258	SMS-SIEMAG/ Shougang Jingtang	CAL 3	Steel	30	1100	0,05	0,1	1	x		Dez 11	1400	Yes	Stainless steel	
263	Masteel, China	RCL	Steel	30	270	0,2	2,5	2	x		Dez 11	1600	Yes	Standard steel	
264	TKS Duisburg, Beize DU-Süd	Beize	Steel	30	300	0,8	5	5	x		Dez 11	1800	No	Standard steel	Drylube
265	Masteel, China	CAL 1	Steel	30	820	0,2	2,5	2	x		Jan 12	1600	Yes	Standard steel	
266	Masteel, China	CAL 2	Steel	30	820	0,2	2,5	2	x		Jan 12	1600	Yes	Standard steel	
267	SMS-SIEMAG/ Shougang JingTang	ETL 1	Steel	45	520	0,006	0,02	2	x		Aug 12	1400	Yes	Stainless Steel	DOS
268	SMS-SIEMAG/ Shougang JingTang	ETL 2	Steel	45	520	0,006	0,02	2	x		Aug 12	1400	Yes	Stainless Steel	DOS
269	Voest Stahl AG, Linz, Austria	ISL 6	Steel	10	500	0,3	2	3	x		Aug 12	2000	Yes		Drylube

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270	SMS INNSE, GAZI METAL TURKEY	sCPL	Steel	20	220	0,2	3	2	x		Jan 13	1700	Yes	Standard steel	
271	SMS INNSE, GAZI METAL TURKEY	SPM	Steel	50	1000	0,2	2	2	x		Jan 13	1700	Yes	Standard steel	
272	Hydro- Aluminium, Grevenbroich	RCL	Alu	5	100	0,3	2	5	x		Dez 12	2400	No	Standard steel	Drylube
273	BAP, Alu- Norf	LTA	Alu	30	600	0,2	0,035	1	x		Dez 12	1800	No	Standard steel	
274	SCS Shanghai, WuXi China	RCL	Steel	30	200	0,01/ 0,3	0,07/ 3,0	2	x		Jun 13	1500	No	Stainless Steel	Standard / DOS
275	Danieli-Fröhling, Meinerzhagen	Alcoa Maaden	Alu	30	300	0,005	0,025	1	x		Sep 13	2300	Yes	Stainless Steel	DOS
276	Danieli-Fröhling, Meinerzhagen	Alcoa Maaden	Alu	30	300	0,5	3	3	x		Sep 13	2300	Yes	Stainless steel	Drylube
277	Mertropower, Anshan China	CGL 2	Steel	30	240	0,2	3	8	x		Aug 13	1700	Yes	Standard steel	
278	SMS für Benxi CAL, China	Benxi CAL1630	Steel	30	820	0,2	3	3	x		Mrz 14	1700	Yes	Stainless steel	
279	SMS für Benxi CAL, China	Benxi CAL2150	Steel	20	820	0,2	3	3	x		Mrz 14	2300	Yes	Stainless steel	
280	SMS für Nanshan, China	Nanshan DOS	Alu	30	250	0,005	0,2	1	x		Mrz 14	2200	No	Stainless Steel	DOS
281	European manufacturer	Slitting line	Alu	5	300	0,2	1,5	3	x		Sep 13	1900	Yes	Stainless steel	Drylube
282	Ungerer	Shougang China	Steel	50	600	0,005	0,2	1	x		Apr 14	1400	No	Stainless Steel	DOS
283	Ungerer	Shougang China	Steel	50	600	0,005	0,2	1	x		Apr 14	1400	No	Stainless Steel	DOS



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284	SMS-SIEMAG, Angang	CAL-2	Steel	20	280	0,3	3	3	x			1800	No	Standard Steel	Prelube
285	SMS-SIEMAG	BENXI CGL	Steel	30	300	0,2	3	3	x			2000	Yes	Stainless steel	Standard
286	SMS-SIEMAG	ANGANG CGL	Steel	30	220	0,2	2	4	x			2000	No	Standard Steel	Prelube
287	SMS-SIEMAG	Tianjing CCL	Alu	30	300	0,005	0,2	2	x		Mai 15	2000	No	Stainless Steel	DOS
288	Fives DMS	WISCO Guangxi CAL	Steel	20	650	0,4	2,5	3	x			2200	Yes	Standard Steel	Prelube
289	SMS f. Wuppermann Ungarn	hCGL 2	Steel	30	220	0,5	3	2	x		Aug 15	1800	Yes	Stainless steel	Standard
290	SMS/Big River Steel	Pickle Line	Steel	30	230	0,5	3	2	x		Okt 15	2000	Yes	Standard Steel	Standard
291	SMS/Big River Steel	CGL	Steel	30	220	0,5	3	2	x		Jan 16	2000	Yes	Standard Steel	Standard
292	SMS/Big River Steel	Skin Pass Mill	Steel	30	1000	0,2	5	2	X		Sep 15	2000	Yes	Standard Steel	Standard
293	Fives DMS	WISCO CAL#2	Steel	30	240	0,2	2,5	3	x		Aug 15	2200	Yes	Stainless steel	Prelube
294	SMS-SIEMAG	TEZCAN CPL	Steel	30	350	0,5	3	1	x		Jul 15	1800	Yes	Standard Steel	Standard
295	WISDRI	WISCO CGL #1	Steel	30	240	0,2	2,5	3	X		Aug 15	2000	Yes	Stainless Steel	Standard
296	SMS-SIEMAG	Tosyali DOS	Steel	100	450	0,1	0,6	2	x		Feb 16	1400	No	Stainless Steel	DOS
297	TKSE	Modernisierung EM EBA	Steel						x		Sep 15			Standard Steel	Prelube
298	OJSC MMK	Slitting Line	Steel	120	240	0,3	3,5	2	x		Apr 16	2200	No	Standard Steel	Standard
299	SMS/UK	European customer RCL	Steel	30	300	0,4	2	4	x		Aug 16	2000	No	Standard Steel	Prelube
300	Gerd-Wolff	European customer RCL	Alu	20	400	0,1	2	5	x		Sep 16	2500	Yes	Standard Steel	Drylube
301	SMS/Gunnung	Skin Pass Mill	Steel	120	1200	0,1	3	1	x		Sep 16	1400	Yes	Standard Steel	Standard



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302	NLMK La Louviere	Modernisierung EM	0												
303	SMS/Big River SPM2	Skin Pass Mill	Steel	30	1000	0,2	5	2	X		Aug 16	2000	Yes	Standard Steel	Standard