



# RH RECIRCULATION DEGASSER

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SMS group

NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
173	TERNIUM-SIDERAR  Ramallo, Buenos Aires Argentina	2008	Single vessel Rocker type ladle movement TOP lance system	200	BOF	Deep drawing qualities ULC steel Electrical steel	RH-SC TOP lance with video camera
172	MSC Mobarakeh Steel Co. Phase 1 Isfahan Iran	2008	Single vessel Hydraulic ladle movement TOP lance system	180	EAF		RH-SC TOP lance with video camera
171	Shougang Qian An Iron & Steel Co., Ltd. RH No. 4 Qian An P.R. of China	2008	Duplex Hydraulic ladle movement TOP lance system	210	BOF	Deep drawing qualities ULC steel Electrical steel	RH-SC TOP lance with video camera
170	Shougang Qian An Iron & Steel Co., Ltd. RH No. 3 Qian An P.R. of China	2008	Duplex Hydraulic ladle movement TOP lance system	210	BOF	Deep drawing qualities ULC steel Electrical steel	RH-SC TOP lance with video camera
169	Ural Steel  Novotroizk Russia	2007	Duplex Rocker-type vessel movement TOP burner lance system	120	EAF	Carbon steel Heavy plates Pipe grades	
168	ArcelorMittal S.A.  Gijon Spain	2007	Single vessel Rocker-type vessel movement Burner heating	120	BOF	Rail steel	Revamping of DH
167	Shougang Qian An Iron & Steel Co., Ltd. RH No. 2 Qian An P.R. of China	2007	Duplex Hydraulic ladle movement TOP lance system	210	BOF	Deep drawing qualities ULC steel Electrical steel	RH-SC TOP lance with video camera
166	MMK Magnitogorsk Iron & Steel Works  Magnitogorsk Russia	2007	Duplex Rocker-type vessel movement TOP lance system	370	BOF	Pipe grades	
165	NLMK Novolipetsk Iron & Steel Corp.  Novolipezk Russia	2007	Duplex Rocker-type vessel movement TOP lance system	320	BOF	Deep drawing qualities ULC steel	



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164	Tata Steel  Kalinganagar, Orissa India	2007	Rocker type vessel movement TOP lance system	310	BOF	Flat products ULC steel Low carbon steel	SMS Mevac UK
163	VIZAG Rashtriya Ispat Nigam Ltd. Visakhapatnam Steel Plant Visakhapatnam, Andhra Pradesh India	2007	Single vessel Rocker-type vessel movement TOP lance system	150	BOF	Long products	SMS Mevac UK
162	Tangshan Guofeng Iron & Steel Co., Ltd.  Tangshan P.R. of China	2006	Duplex Hydraulic ladle movement TOP lance system	125	BOF	Silicon steel Automobile steel Pressure vessel steel Heavy plates Pipe grades	RH-SC TOP lance with video camera
161	Bei Tai Iron & Steel Group Co., Ltd  Benxi P.R. of China	2006	Duplex Hydraulic ladle movement TOP lance system	135	BOF	Carbon steel Ship plates Pipe steel Automotive steel Pressure vessel steel	RH-SC TOP lance with video camera
160	Jindal Steel Ltd.  Raigarh, Chhattisgarh India	2006	Single vessel Rocker-type vessel movement TOP lance system	100	BOF	Rail steel	SMS Mevac UK
159	Jindal Vijayanagar Steel Ltd. Shop No. 2  Toranagallu, Karnataka India	2006	Single vessel Rocker-type vessel movement TOP lance system	175	BOF	IF steel ULC steel Pipe grades	SMS Mevac UK
158	Dragon Steel Corp.  Taichung Taiwan, R.O.C	2006	Fast vessel exchange Hydraulic ladle movement TOP lance system	210	BOF	Low carbon structural steel Medium carbon structural steel IF grades	RH-SC
157	Anshan Iron & Steel Corp. Shop No. 2, RH No. 4  Anshan P.R. of China	2006	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	260	BOF	Electrical steel Forging steel Pipe grades HSLA steel	
156	ARCELOR Atlantique et Lorraine RH No. 2 Dunkerque France	2006	Fast vessel exchange Hydraulic ladle movement Turn table RH-OB type side wall tuyeres TOP burner lance system	270	BOF	ULC steel	RH-SC



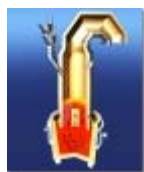
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155	OEMK Oskol Electric & Steel Works RH No. 3 Starij Oskol Russia	2006	Single vessel Rocker-type vessel movement TOP burner lance system	160	EAF	Alloyed high-grade structural steel	
154	Qinhuangdao Shouqin Metal & Materials Co., Ltd.  Qinhuangdao P.R. of China	2006	Duplex Hydraulic ladle movement TOP lance system	100	BOF	Boiler steel Automobile steel Pipe steel IF steel	RH-SC TOP lance with video camera
153	Handan Iron & Steel Group Co., Ltd.  Handan P.R. of China	2006	Duplex Fast vessel exchange Hydraulic ladle movement TOP lance system	250	BOF	ULC steel Boiler steel Automobile steel Pipe steel	RH-SC
152	Anshan Iron & Steel Corp. Shop No. 2, RH No. 3  Anshan P.R. of China	2006	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	260	BOF	Electrical steel Forging steel Pipe grades HSLA steel	
151	CORUS Port Talbot Works RH No. 1 Port Talbot Great Britain	2005	Vacuum system				SMS Mevac UK Revamping of No. 83
150	BAOSTEEL Baoshan Iron & Steel Corp. Shop No. 2, RH No. 5 Shanghai, Baoshan P.R. China	2005	TOP lance system				Extension of Duplex RH
149	ACERALIA Corp. S.A.  Aviles Spain	2005	Vacuum system				Revamping of No. 61
148	SeAH Besteel  Kunsan Rep. of Korea	2005	Single vessel Rocker-type vessel movement TOP burner lance system	85	EAF	Special engineering steel for automotive applications	
147	NTMK Nizhniy Tagil Iron & Steel Works  Nizhniy Tagil Russia	2005	Duplex Rocker-type vessel movement TOP lance system	160	BOF	Rail steel Heavy plates Deep drawing qualities ULC steel Pipe grades	RH-SC



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146	Shougang Qian An Iron & Steel Co., Ltd. RH No. 1 Qian An P.R. of China	2005	Fast vessel exchange Hydraulic ladle movement TOP lance system	210	BOF	ULC steel	RH-SC TOP lance with video camera
145	Jiang Yin Xing Cheng Special Steel Works Co., Ltd. Phase 2 Jiangyin P.R. of China	2005	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	100	BOF	Bearing steel Forging steel Pipe grades	TOP lance with video camera
144	Bhushan Steel & Strips Ltd.  Denkanal, Orissa India	2005	Single vessel Rocker-type vessel movement TOP lance system	180	Conarc	IF steel Deep drawing qualities Pipe grades Electrical steel Automotive steel	SMS Mevac UK
143	Jindal Vijayanagar Steel Ltd. Shop No. 1  Toranagallu, Karnataka India	2005	Single vessel Rocker-type vessel movement TOP lance system	130	BOF	EDD grades ULC steel Pipe grades Electrical steel	SMS Mevac UK
142	Essar Steel Ltd.  Hazira, Gujarat India	2004	Single vessel Rocker-type vessel movement TOP lance system	150	BOF	ULC steel Electrical steel Pipe grades	SMS Mevac UK Relocation of No. 63
141	CORUS Scunthorpe Works  Scunthorpe Great Britain	2004	Single vessel Rocker-type vessel movement Burner heating	300	BOF	Long products Rail steel	SMS Mevac UK Relocation of No. 63
140	Anshan Iron & Steel Corp. Shop No. 2, RH No. 2  Anshan P.R. of China	2004	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	260	BOF	Electrical steel Forging steel Pipe grades HSLA steel	
139	Anshan New Iron & Steel Co., Ltd. - HSM  Anshan P.R. of China	2004	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	100	BOF	ULC steel Heavy plates Pipe grades High carbon steel	
138	Anshan New Iron & Steel Co., Ltd.  Anshan P.R. of China	2004	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	100	BOF	Electrical steel ULC steel Deep drawing qualities	



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137	AK Steel Corp.  Ashland, KY USA	2004	TOP lance system				Extension of RH TOP lance with video camera
136	OEMK Oskol Electric & Steel Works RH No.1 Stary Oskol Russia	2004	Single vessel Rocker-type vessel movement TOP burner lance system	160	EAF	Long products Pipe grades Bearing steel Tool steel Wire grades	Revamping of DH No. 1
135	CSC China Steel Corp. Shop No. 2, RH No. 6 Kaohsiung Taiwan, R.O.C.	2004	TOP lance system Vacuum system				RH-SC Revamping of No. 92 (separation of RH No. 6 from RH No. 4)
134	CSC China Steel Corp. Shop No. 2, RH No. 2 Kaohsiung Taiwan, R.O.C.	2004	TOP lance system				Revamping of No. 51
133	POSCO Pohang Iron & Steel Co. Kwangyang Works Shop No. 2, RH No. 5 Kwangyang, Rep. of Korea	2004	Fast vessel exchange Winch-type ladle movement TOP lance system	275	BOF		RH-SC TOP lance with video camera Operation in combination with VD No. 151
132	Benxi Iron & Steel (Group) Co., Ltd.  Benxi P.R. of China	2004	Duplex Fast vessel exchange Hydraulic ladle movement TOP lance system	150	BOF	HSLA steel Electrical steel	TOP lance with video camera
131	Anshan Iron & Steel Corp. Shop No. 3, RH No. 2  Anshan P.R. of China	2004	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	175	BOF	Electrical steel Forging steel Pipe grades HSLA steel	
130	IMEXSA Ispat Mexicana, S.A.  Lazaro Cardenas Mexico	2003	TOP lance system Vacuum system				Revamping of RH
129	KEP Krupp Edelstahlprofile GmbH  Siegen-Geisweid Germany	2003	Burner heating				Revamping of No. 54



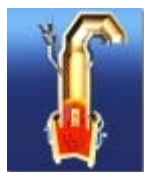
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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
128	Anshan Iron & Steel Corp. Shop No. 2, RH No. 1  Anshan P.R. of China	2003	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	260	BOF	Electrical steel Forging steel Pipe grades HSLA steel	
127	ILVA S.p.A. Taranto Works Shop. No. 2 Taranto Italy	2003	TOP lance system				Via SMS Demag INNSE Revamping of No. 46
126	TISCO Tata Iron & Steel Co.  Jamshedpur, Jharkhand India	2003	TOP lance system Vacuum system Micro alloying system				SMS Mevac UK Revamping of No. 95
125	OEMK Oskol Electric & Steel Works RH No. 2 Stary Oskol Russia	2003	Single vessel Rocker-type vessel movement TOP burner lance system	160	EAF	Long products Pipe grades Bearing steel Tool steel Wire grades	Revamping of DH No. 2
124	CSC China Steel Corp. Shop No. 1, RH No. 3 Kaohsiung Taiwan, R.O.C.	2002	TOP lance system				Revamping of No. 90 TOP lance with video camera
123	Panzhihua Iron & Steel (Group) Co RH No. 2  Panzhihua P.R. of China	2001	Fast vessel exchange Hydraulic ladle movement TOP lance system	130	BOF	Rail steel Wire grades	
122	CORUS Port Talbot Works RH No. 2 Port Talbot Great Britain	2001	TOP lance system				SMS Mevac UK Extension of No. 110
121	Cockerill Sambre S.A.  Chertal Belgium	2000	TOP lance system				Extension of No. 42
120	ThyssenKrupp Steel AG Beeckerwerth Works RH No. 2 Duisburg Germany	2000	Fast vessel exchange Winch-type ladle movement TOP lance system	265	BOF	ULC steel Deep drawing qualities	RH-SC



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119	CLI Creusot Loire Industrie Chateauneuf Works Ruve de Gier France	1999	Single vessel Hydraulic ladle movement Burner heating	90	EAF	Tool steel Forging steel	Revamping of DH
118	ThyssenKrupp Steel AG Beeckenwerth Works RH No. 1 Duisburg Germany	1999	TOP lance system				Extension of No. 58
117	ISCOR Ltd. Vanderbijlpark Works  Vanderbijlpark Rep. of South Africa	1999	TOP lance system				Extension of No. 53
116	EKO Stahl GmbH  Eisenhüttenstadt Germany	1999	Hydraulic ladle movement TOP lance system				Revamping of No. 39
115	VSZ Ocel ( now USS Košice )  Kosice Slovakia	1998	Single vessel Winch-type vessel movement TOP lance system	180	BOF	ULC steel Pipe grades Heavy plates Off-shore steel	TOP lance with video camera Suspended continued 2001
114	Trinecke Zelezarny AS  Trinec Czech Republic	1998	Single vessel Rocker-type vessel movement Electrical heating	180	BOF	Rail steel	Revamping of DH
113	ThyssenKrupp Steel AG Bruckhausen Works  Duisburg Germany	1998	TOP lance system				Extension of No. 82
112	BAOSTEEL Baoshan Iron & Steel Corp. Shop No. 1, RH No. 2 Shanghai, Baoshan P.R. of China	1998	Fast vessel exchange Hydraulic ladle movement TOP lance system	300	BOF	ULC steel Pipe grades Heavy plates	
111	Anshan Iron & Steel Corp. Shop No. 3, RH No. 1  Anshan P.R. of China	1998	Fast vessel exchange Hydraulic ladle movement Turn table TOP lance system	175	BOF	ULC steel Electrical steel Pipe grades Bearing steel Forging steel	



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110	British Steel plc Port Talbot Works RH No. 2 Port Talbot Great Britain	1997	Single vessel Rocker-type vessel movement Burner heating	340	BOF	ULC steel Deep drawing qualities Electrical steel	SMS Mevac UK Revamping of DH
109	TISCO Taiyuan Iron & Steel Corp.  Taiyuan P.R. of China	1996	Fast vessel exchange Hydraulic ladle movement TOP lance system	80	BOF	ULC steel Electrical steel Bearing steel Heavy plates Stainless steel	
108	Sumitomo Metal Ind., Ltd. Wakayama Steel Works  Wakayama Japan	1996	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	210	BOF	Deep drawing qualities ULC steel Pipe grades Electrical steel	
107	Sumitomo Metal Ind., Ltd. Wakayama Steel Works  Wakayama Japan	1996	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	210	BOF	Deep drawing qualities ULC steel Pipe grades Electrical steel	
106	POSCO Pohang Iron & Steel Co. Kwangyang Works Shop No. 1, RH No. 2 Kwangyang, Rep. of Korea	1996	Vacuum system				Via MATSUBO Revamping of No. 62
105	POSCO Pohang Iron & Steel Co. Pohang Works Shop No. 1, RH No. 2 Pohang, Rep. of Korea	1996	Turn table				Via POSCO E & C Revamping of No. 56
104	CST Companhia Siderurgica de Tubarao Tubarao, Vitoria Brazil	1996	Single vessel Hydraulic ladle movement Burner heating TOP lance system	300	BOF	ULC steel Heavy plates	Via Mannesmann DEMAG Ltda. (now SMS Demag Ltda.)
103	USIMINAS Usinas Siderurgica de Minas Gerais S.A. Shop No. 1, RH No. 2 Ipatinga, Brazil	1995	TOP lance system				Extension of No. 47
102	Panzhuhua Iron & Steel (Group) Co RH No. 1  Panzhuhua P.R. of China	1995	Single vessel Winch-type vessel movement TOP lance system	130	BOF	ULC steel Deep drawing qualities Weather resistant steel	



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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
101	Hanbo Steel & General Construction Co., Ltd.  Asan Bay Rep. of Korea	1995	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	200	EAF	Deep drawing qualities	
100	Hanbo Steel & General Construction Co., Ltd.  Asan Bay Rep. of Korea	1995	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	200	EAF	Deep drawing qualities	
099	CSN Companhia Siderurgica Nacional  Volta Redonda Brazil	1995	Single vessel Rocker-type vessel movement Burner heating TOP lance system	225	BOF	Deep drawing qualities ULC steel Pipe grades	
098	WISCO Wuhan Iron & Steel Corp. Shop No. 2, RH No. 1 Wuhan P.R. of China	1994	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	70	BOF	Pipe grades	Replacement of No. 30
097	USS Div. of USX Corp. Mon Valley Works Edgar Thompson Plant Braddock, Pennsylvania USA	1994	Single vessel Rocker-type vessel movement Burner heating TOP lance system	225	BOF	Deep drawing qualities ULC steel	
096	POSCO Pohang Iron & Steel Co. Kwangyang Works Shop No. 2, RH No. 3 Kwangyang, Rep. of Korea	1994	TOP lance system				Revamping of No. 71
095	TISCO Tata Iron & Steel Co.  Jamshedpur, Jharkhand India	1994	Single vessel Winch-type vessel movement Electrical heating Burner heating	140	BOF	Deep drawing qualities Pipe grades HSLA steel	
094	Hoesch Stahl AG Phoenix Works  Dortmund Germany	1994	Single vessel Rocker-type vessel movement Electrical heating Burner heating	200	BOF	Deep drawing qualities	Revamping of DH
093	N.V. SIDMAR  Gent Belgium	1994	TOP lance system				Extension of No. 85



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092	CSC China Steel Corp. Shop No. 2, RH No. 4 & No. 6 Kaohsiung Taiwan, R.O.C.	1994	Duplex Hydraulic ladle movement Burner heating TOP lance system	260	BOF	Deep drawing qualities Electrical steel ULC steel	
091	BAOSTEEL Baoshan Iron & Steel Corp. Shop No. 2, RH No. 3 Shanghai, Baoshan P.R. of China	1994	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	275	BOF	Deep drawing qualities Electrical steel ULC steel	
090	CSC China Steel Corp. Shop No. 1, RH No. 3 Kaohsiung Taiwan, R.O.C.	1992	Single vessel Winch-type vessel movement Burner heating	160	BOF	Deep drawing qualities Electrical steel	
089	ZAPSIB West Sibirian Steel Corp.  Novokusnezk Russia	1992	Single vessel Winch-type vessel movement Burner heating	300	BOF		
088	WISCO Wuhan Iron & Steel Corp. Shop No. 3, RH No. 1 Wuhan P.R. of China	1992	Fast vessel exchange Hydraulic ladle movement Electrical heating Burner heating	250	BOF	Pipe grades	
087	NTMK Nizhniy Tagil Iron & Steel Works Nizhniy Tagil Russia	1992	Duplex Hydraulic ladle movement Burner heating	160	BOF	Forging steel Train wheel steel Rail steel	Via Voest Alpine Industrieanlagenbau (VAI)
086	N.V. SIDMAR  Gent Belgium	1992	Single vessel Winch-type vessel movement Burner heating	300	BOF	ULC steel Electrical steel	
085	Krupp Stahl AG Rheinhausen Works  Duisburg Germany	1992	Single vessel Hydraulic vessel movement Electrical heating	300	BOF		Revamping of DH
084	ERDEMIR Eregli Demir ve Celik Fabrikalari T.A.S. Karadeniz Eregli Turkey	1992	Fast vessel exchange Hydraulic ladle movement Burner heating TOP lance system	120	BOF	ULC steel Deep drawing qualities	



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083	British Steel plc Port Talbot Works RH No. 1 Port Talbot Great Britain	1992	Single vessel Rocker-type vessel movement Burner heating TOP lance system	340	BOF	ULC steel Deep drawing qualities	SMS Mevac UK
082	Thyssen Stahl AG Bruckhausen Works  Duisburg Germany	1991	Single vessel Hydraulic vessel movement Electrical heating	400	BOF	Deep drawing qualities Pipe grades Electrical steel	Revamping of DH
081	POSCO Pohang Iron & Steel Co. Pohang Works Shop No. 1, RH No. 1 Pohang, Rep. of Korea	1991	Fast vessel exchange Hydraulic ladle movement Electrical heating Burner heating	110	BOF	Deep drawing qualities Electrical steel	Replacement of No. 32
080	Krakatau Steel  Celigong Indonesia	1991	Single vessel Hydraulic ladle movement Burner heating	130	EAF	Deep drawing qualities	Via Voest Alpine Industrieanlagenbau (VAI)
079	POSCO Pohang Iron & Steel Co. Kwangyang Works Shop No. 2, RH No. 4 Kwangyang, Rep. of Korea	1990	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	250	BOF	Deep drawing qualities	
078	LTV Steel Co., Inc. Cleveland Works  Cleveland, Ohio USA	1990	Single vessel Winch-type vessel movement Electrical heating	255	BOF	Deep drawing qualities ULC steel	Built by MAN GHH (now SMS Demag)
077	ISCOR Ltd. Newcastle Works  Newcastle Rep. of South Africa	1990	Single vessel Rocker-type vessel movement Electrical heating	170	BOF	Rail steel Wire grades	
076	Huta Katowice  Katovice Poland	1990	Single vessel Winch-type vessel movement Burner heating	300	BOF	Rail steel	
075	National Steel Co.  Great Lakes, Michigan USA	1989	Single vessel Winch type vessel movement Burner heating	220	BOF		Via DRAVO Inc.



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074	KIM CHEAK Ferrous Metal Export/Import Co., Undok Group Chongjin Democratic People's Rep. of Korea	1989	Single vessel Winch-type vessel movement Burner heating	130	BOF		
073	CSC China Steel Corp. Shop No. 1, RH No. 1 Kaohsiung Taiwan, R.O.C.	1989	Single vessel Winch-type vessel movement Electrical heating	160	BOF	Electrical steel Deep drawing qualities Heavy plates	Revamping of RH
072	Rouge Steel Corp.  Dearborn, Michigan USA	1988	Single vessel Winch-type vessel movement Electrical heating Burner heating	250	BOF	ULC steel	
071	POSCO Pohang Iron & Steel Co. Kwangyang Works Shop No. 2, RH No. 3 Kwangyang, Rep. of Korea	1988	Fast vessel exchange Hydraulic ladle movement Burner heating	250	BOF	Deep drawing qualities ULC steel	
070	Bethlehem Steel Corp. Burns Harbour Works  Bethlehem, Pennsylvania USA	1988	Single vessel Winch-type vessel movement RH-OB-type side wall tuyeres Burner heating	290	BOF	Deep drawing qualities ULC steel	Built by MAN GHH (now SMS Demag)
069	WISCO Wuhan Iron & Steel Corp. Shop No. 2, RH No. 2 Wuhan P.R. of China	1987	Fast vessel exchange Hydraulic ladle movement Electrical heating Burner heating	70	BOF	ULC steel Electrical steel	
068	Voest Alpine Stahl AG  Linz/Donau Austria	1987	Single vessel Winch-type vessel movement Burner heating	145	BOF	Deep drawing qualities Pipe grades Electrical steel	Via Voest Alpine Industrieanlagenbau (VAI)
067	Voest Alpine Stahl AG  Donawitz Austria	1987	Single vessel Winch-type vessel movement Burner heating	65	BOF	Wire grades Rail steel	
066	US Steel Gary Works  Gary, Indiana USA	1987	Single vessel Winch-type vessel movement Burner heating	230	BOF		Via Dravo Inc.



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065	STELCO Lake Erie Steel  Lake Erie Canada	1987	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	230	BOF	Pipe grades	Via Dravo Inc.
064	LTV Steel Co., Inc. Indiana Harbour Works  Chicago, Indiana USA	1987	Single vessel Winch-type vessel movement Electrical heating	260	BOF	Deep drawing qualities ULC steel	Built by MAN GHH (now SMS Demag)
063	British Steel plc Llanwern Works  Newport Great Britain	1987	Duplex Rocker-type vessel movement Burner heating	200	BOF	Deep drawing qualities	
062	POSCO Pohang Iron & Steel Co. Kwangyang Works Shop No. 1, RH No. 2 Kwangyang, Rep. of Korea	1986	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	250	BOF	Heavy plates	
061	ENSIDESA Empresa Nacional Siderurgica S.A Shop No. 3 Aviles Spain	1986	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	250	BOF	Deep drawing qualities	
060	Weirton Steel Corp.   Weirton, West Virginia USA	1985	Vacuum system	330	BOF	Heavy plates	Via DRAVO Inc. Revamping of RH
059	USINOR Usine de Dunes  Dunkerque France	1985	Single vessel Hydraulic vessel movement Electrical heating Burner heating	80	BOF/EAF		Revamping of DH
058	Thyssen Stahl AG Beeckerwerth Works RH No. 1 Duisburg Germany	1985	Single vessel Winch-type vessel movement Electrical heating	260	BOF	ULC steel Electrical steel	
057	Stahlwerke Bremen GmbH   Bremen Germany	1985	Single vessel Winch-type vessel movement Electrical heating	280	BOF		Built by MAN GHH (now SMS Demag)



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056	POSCO Pohang Iron & Steel Co. Pohang Works Shop No. 1, RH No. 2 Pohang, Rep. of Korea	1985	Fast vessel exchange Hydraulic ladle movement Turn table Electrical heating Burner heating	110	BOF	Deep drawing qualities Electrical steel	
055	NLMK Novolipezk Iron & Steel Corp.  Novolipezk Russia	1985	Single vessel Rocker-type vessel movement RH-OB-type side wall tuyeres Electrical heating	180	BOF	Electrical steel	
054	KEP Krupp Edelstahlprofile GmbH  Siegen-Geisweid Germany	1985	Single vessel Rocker-type vessel movement Electrical heating Burner heating	140	EAF		
053	ISCOR Ltd. Vanderbijlpark Works  Vanderbijlpark Rep. of South Africa	1985	Fast vessel exchange Hydraulic ladle movement Electrical heating Burner heating	155	EAF	Pipe grades	Revamping of DH
052	Inland Steel Co. Indiana Harbour  Indiana USA	1985	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	240	BOF	Deep drawing qualities	Via DRAVO Inc.
051	CSC China Steel Corp. Shop No. 2, RH No. 2 Kaohsiung Taiwan, R.O.C.	1985	Fast vessel exchange Hydraulic ladle movement Electrical heating Burner heating	250	BOF	Deep drawing qualities	
050	COSIPA Companhia Siderurgica Paulista Shop No. 2 Sao Paulo Brazil	1985	Fast vessel exchange Rocker-type ladle movement Electrical heating	130	BOF	Pipe grades Heavy plates Deep drawing qualities Electrical steel Forging steel	
049	British Steel plc Scunthorpe Works  Scunthorpe Great Britain	1985	Burner heating				Revamping of No. 36
048	BMZ Byelorussian Steel Works  Zhlobin Republic of Belarus	1985	Single vessel Winch-type vessel movement Electrical heating	100	EAF	Wire grades	Via Voest Alpine Industrieanlagenbau (VAI)



# RH RECIRCULATION DEGASSER

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SMS group

NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
047	USIMINAS Usinas Siderurgicas de Minas Gerais S.A. Shop No. 1, RH No. 2 Ipatinga, Brazil	1984	Fast vessel exchange Hydraulic ladle movement Electrical heating Burner heating	180	BOF	Heavy plates Deep drawing qualities	
046	ITALSIDER Shop No. 2  Taranto Italy	1984	Fast vessel exchange Hydraulic ladle movement RH-OB type side wall tuyeres Burner heating	320	BOF	HSLA steel Pipe grades	Via Italimpianti (now SMS Demag S.p.A.)
045	ITALSIDER Shop No. 1  Taranto Italy	1984	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Burner heating	300	BOF	HSLA steel Pipe grades	Via Italimpianti (now SMS Demag S.p.A.)
044	Deltasider Cogne  Aosta Italy	1983					Revamping of No. 21
043	COSIPA Companhia Siderurgica Paulista Shop No. 1 Sao Paulo Brazil	1983	Single vessel Rocker-type ladle movement Electrical heating Burner heating	105	BOF	Pipe grades Heavy plates Deep drawing qualities Electrical steel Forging steel	
042	Cockerill Sambre S.A.  Chertal Belgium	1983	Single vessel Hydraulic vessel movement Electrical heating	200	BOF	Deep drawing qualities	Revamping of DH
041	USINOR Usine de Dunkerque RH No. 1 Dunkerque France	1982	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	240	BOF	Deep drawing qualities	
040	Hoogovens Shop No. 2  Ijmuiden Netherlands	1982	Fast vessel exchange Hydraulic ladle movement RH-OB-type side wall tuyeres Electrical heating Burner heating	320	BOF	Deep drawing qualities	
039	EKO Stahl GmbH  Eisenhüttenstadt Germany	1982	Single vessel Winch-type vessel movement Burner heating	235	BOF	Electrical steel Deep drawing qualities	Via Voest Alpine Industrieanlagenbau (VAI)



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038	MKS Metalurški Kombinat Smederevo  Smederevo Serbia	1981	Single vessel Rocker-type vessel movement Electrical heating	90	BOF	Deep drawing qualities	
037	British Steel plc Teesside Works  South Teesside Great Britain	1981	Single vessel Winch-type vessel movement Burner heating	260	BOF	Rail steel	
036	British Steel plc Scunthorpe Works  Scunthorpe Great Britain	1979	Single vessel Winch-type vessel movement Electrical heating	300	BOF	Heavy plates	
035	USIMINAS Usinas Siderurgicas de Minas Gerais S.A. Shop No. 1, RH No. 1 Ipatinga, Brazil	1978	Single vessel Winch-type vessel movement Electrical heating	85	BOF	Rail steel	
034	Mecan Arbed  Roehling-Burbach Germany	1978	Single vessel Hydraulic vessel movement Electrical heating	140	BOF	Bearing steel Wire grades Stainless steel	
033	ACOMINAS Aço Minas Gerais S.A.  Ouro Brazil Brazil	1978	Single vessel Winch-type vessel movement Electrical heating	200	BOF	Rail steel	
032	POSCO Pohang Iron & Steel Co. Pohang Works Shop No. 1, RH No. 1 Pohang, Rep. of Korea	1977	Single vessel Winch-type vessel movement Electrical heating	110	BOF	Electrical steel	
031	Asil Celik  Orhangazi Turkey	1977	Fast vessel exchange Hydraulic ladle movement Electrical heating	45	EAF	Tool steel	
030	WISCO Wuhan Iron & Steel Corp. Shop No. 2, RH No. 1 Wuhan P.R. of China	1974	Single vessel Rocker-type vessel movement Burner heating	70	BOF	Electrical steel	Via SMS (now SMS Demag)



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029	Rheinstahl Hüttenwerke AG  Hattingen Germany	1973	Single vessel Hydraulic vessel movement Electrical heating TOP lance system	150	EAF/BOF	Forging steel HSLA steel Stainless steel	
028	Australian Iron & Steel Pty., Ltd.  Port Kembla Australia	1973	Single vessel Winch-type vessel movement Electrical heating	270	BOF	Electrical steel Deep drawing qualities HSLA steel	
027	EMZ Enakievo Metallurgical Works  Kramatorsk Ukraine	1972	Single vessel Winch-type vessel movement Electrical heating	120	EAF	Forging steel Stainless steel	
026	ASCOMETAL  Fos-sur-Mer France	1972	Fast exchange of lower vessel Hydraulic ladle movement Electrical heating	100	EAF		
025	Norbotten Jaernverk AB  Lulea Sweden	1971	Single vessel Rocker-type ladle movement Electrical heating	100	BOF		
024	Surahammars Bruks AB  Surahammar Sweden	1970	Single vessel		EAF	Electrical steel	
023	Centro Sperimentale Metallurgico  Roma Italy	1970	Single vessel  Burner heating	1,5	IF		Pilot plant
022	ARBED Esch-Schiffange  Schiffange Luxembourg	1970	Single vessel  Electrical heating	80	BOF	Wire grades	
021	Nazionale Cogne S.p.A.  Aosta Italy	1968	Single vessel  Burner heating TOP lance system	50	BOF	Stainless steel	



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020	VEB Stahl- und Walzwerk Henningsdorf  Henningsdorf Germany	1967	Single vessel Hydraulic ladle movement Burner heating	50	EAF	Electrical steel Bearing steel	
019	Deutsche Edelstahlwerke AG  Krefeld Germany	1967	Single vessel Hydraulic ladle movement Electrical heating	80	EAF	Bearing steel Stainless steel	
018	Uzina de Masini Grele  Bukarest Romania	1966	Single vessel Winch-type vessel movement	75	EAF	Forging steel Bearing steel	
017	Hindustan Steel Co. Durgapur Alloy Steel Plant  Durgapur, West Bengal India	1966	Single vessel Hydraulic ladle movement		EAF	Heavy plates	
016	Breda Siderurgia  Milano Italy	1966	Single vessel Hydraulic ladle movement Burner heating		EAF	Bearing steel	
015	August Thyssen Hütte AG Ruhrort Works  Duisburg Germany	1966	Single vessel Winch-type vessel movement Electrical heating	120	BOF	Electrical steel Bearing steel Spring steel Pipe grades	
014	Zeljezara Zenica  Zenica Bosnia Herzogowina	1965	Single vessel Hydraulic ladle movement Burner heating	100	OHF	Rail steel Forging steel	
013	VEB Stahl- und Walzwerk Gröditz  Gröditz Germany	1965	Single vessel Hydraulic ladle movement Burner heating	80	EAF	Forging steel Bearing steel	
012	Daye Steel Works  Huangshi P.R. of China	1965	Single vessel Rocker-type vessel movement	100	OHF	Deep drawing qualities	



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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
011	KSC Kawasaki Steel Corp.  Chiba Japan	1965	Single vessel	165	OHF	Electrical steel Deep drawing qualities	
010	Trinecke Zelezarny AS  Trinec Czech Republic	1964	Single vessel	75	OHF	Rail steel	
009	IMGB  Bukarest Romania	1964	Single vessel				Via Machinimport
008	Appleby Frodingham  Scunthorpe Great Britain	1964	Single vessel Rocker-type vessel movement	100	OHF	Heavy plates	
007	Acciaierie de Bolzano  Bolzano Italy	1964	Single vessel	40	EAF	Stainless steel Bearing steel	
006	Stewarts & Lloyds  Bilston/Wolverhampton Great Britain	1963	Single vessel	120	OHF	Forging steel Spring steel Pipe grades	
005	Rhein Stahl Hüttenwerke AG  Hattingen Germany	1963	Single vessel Rocker-type vessel movement	30	EAF		Pilot plant
004	Daido Steel Co. Ltd.  Chita/Nagoya Japan	1963	Single vessel	70	EAF	Bearing steel Stainless steel	
003	Acières Electriques d'Ugine  Ugine France	1963	Single vessel		EAF	Forging steel Bearing steel	



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002	Fuji Iron & Steel Co. Ltd.  Hirohata/Himeji Japan	1961	Single vessel	100	OHF	Electrical steel Deep drawing qualities Heavy plates	
001	Rheinstahl Hüttenwerke AG  Hattingen Germany	1960	Single vessel		EAF/OHF	Forging steel	