



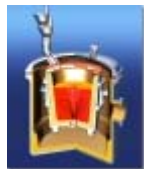
# VD, VD-OB, VAD VACUUM DEGASSER

**MEVAC**

**SMS  
SIEMAG**

SMS group

NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
150	Sidenor Reinosa  Reinosa Spain	2007	VD	70	EAF		Ravamping
149	Hyundai Steel  Dangjin Rep. of Korea	2006	VD-OB	155	BOF	Pipe steel Low alloyed grade	
148	Pervouralsk Novo Trubuy Works (PNTZ) Pervouralsk Russia	2006	Twin tank VD	120	EAF	Pipe steel	with SMS Demag AG
147	OA0 Severstal  Cherepovets Russia	2006	Twin tank VD-OB	380	BOF	ULC steel Electric steel Heavy plates Pipe steel	installation of second vacuum cover car
146	Von Moos Stahl AG  Switzerland	2005	Twin tank	70	EAF	Carbon steel Low alloyed grades	Mechanical Vacuum Pump Built by Concast
145	MAC Steel Fort Smith  Arkansas USA	2004	Twin tank cars	56	EAF	SBO steel	via SMS Demag Inc. (60 sht)
144	POSCO Pohang Iron & Steel Co. No. 2 BOF Kwangyang Rep. of Korea	2004	Single tank VD	275	BOF		operations in combination with RH-TOP unit No. 60
143	Hüttenwerke Krupp Mannesmann  Duisburg Germany	2003	Single tank VD	225	BOF	Pipe steel	Revamping with wire feeding systems for Nos. 68 + 75
142	Acos Villares SA Usina Pindamonhangaba  Brazil	2003	Single tank	100	EAF	Carbon steel	Built by Concast



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141	NUCOR Steel Corp.  Huger, S.C. USA	2002	Twin tank VD-OB	150	EAF	ULC steel	via SMS Demag Inc. (165 sht)
140	NUCOR Steel Corp.  Huger, S.C. USA	2002	Twin tank VD-OB	150	BOF	ULC steel	via SMS Demag Inc. (165 sht.)
139	INI Steel  Pohang South Korea	2001	Single tank VD	130	EAF		
138	Riva Acciaio SpA die Leseugno  Italy	2001	Single tank	80	EAF	Automotive steel Carbon steel Low alloyed grades	Built by Concas
137	Ori Martin SpA  Italy	2001	Single tank	75	EAF	Carbon steel Low alloyed grades	Mechanical Vacuum Pump Built by Concast
136	Lucchini S.p.A. Plant 2  Piombino Italy	2000	Single tank VD	120	BOF	Wire grades Heavy plates	via SMS Demag Innse
135	Aubert & Duval  Les Ancizes France	2000	Single tank VD	60	EAF		
134	OAO Severstal  Cherepovets Russia	2000	Twin tank VD-OB	320	BOF	ULC steel Electric steel Heavy plates Pipe steel	
133	TAMSA  Veracruz Mexico	1999	Single tank VD-OB	150	EAF		Via MDC (now SMS Demag Inc.)



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132	SIDENOR  Bilbao Spain	1998	Twin tank VD	120	EAF	Bearing steel Spring steel Free-cutting steel Forging steel Tool steel	Via SidernaVal
131	Hüttenwerke Krupp Mannesmann  Duisburg-Huckingen Germany	1998	Twin tank VD	250	BOF		
130	Shoudu Iron & Steel Corp.  Beijing P.R. of China	1998	Twin tank VD	80	BOF		Via DMPT (now SMS Baosteel Engineering)
129	Dillinger Hütte  Dillingen Germany	1998	Twin tank VD-OB In-line bag filter	190	BOF	Heavy plates ULC steel	
128	POSCO EAF Shop 2, Unit 2  Kwangyang South Korea	1997	Single tank VD-OB In-line bag filter	150	EAF	Deep drawing qualities	
127	POSCO EAF Shop 2, Unit 1  Kwangyang South Korea	1997	Single tank VD-OB In-line bag filter	150	EAF	Deep drawing qualities	
126	Qualitech Steel  Indianapolis Indiana USA	1997	Single tank VD	100	EAF		Via MDC (now SMS Demag Inc.)
125	Lucchini S.p.A.  Piombino Italy	1997	Single tank VD	120	BOF	Rail steel Bearing steel	Via DIT (now SMS Demag S.p.A.)
124	Hüttenwerke Krupp Mannesmann  Duisburg-Huckingen Germany	1997	Twin tank VD	250	BOF	ULC steel Pipe steel Off-shore steel Forging steel	



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123	Rautaruukki Oy  Raahe Finland	1997	Single tank VD	120	BOF	ULC steel Pipe steel Off-shore steel	
122	Saldanha Steel  Saldanha Bay South Africa	1996	Single tank VD-OB In-line bag filter	170	EAF	ULC steel Deep drawing qualities	
121	SOLLAC  Dunkerque France	1996	Twin tank VD-OB In-line bag filter	240	BOF	Ultra low carbon steel Pipe steel Off-shore steel	
120	British Steel plc Lackenby Works  South Teesside Great Britain	1996	Single tank VD	260	BOF	Heavy plates ULC steel Pipe steel	
119	Megasteel Sdn. Bhd. Unit 2  Kuala Lumpur Malaysia	1996	Single tank VD-OB	160	EAF	Heavy plates	
118	Megasteel Sdn. Bhd. Unit 1  Kuala Lumpur Malaysia	1996	Single tank VD-OB	160	EAF	Heavy plates	
117	Nakorn Thai Strip Mill  Bangkok Thailand	1995	Twin tank VD-OB	180	EAF	ULC steel Pipe steel	
116	Jiang Yin Yan Shan  Jiang Yin P.R. of China	1995	Twin tank VD	60	EAF	Spring steel	
115	Dneprospezstahl  Zaporoshje Ukraine	1995	Single tank VD	60	EAF	Bearing steel Tool steel	



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114	Nippon Denro Ispat Ltd.  Dolvi India	1995	Twin tank VD-OB	185	EAF	Deep drawing qualities	
113	Jiang Yin Xing Cheng  Jiang Yin P.R. of China	1995	Single tank VD	100	EAF	Spring steel	
112	POSCO EAF Shop 1, Plant 2  Kwangyang South Korea	1995	Single tank VD-OB In-line bag filter	150	EAF	Deep drawing qualities	
111	POSCO EAF Shop 1, Plant 1  Kwangyang South Korea	1995	Single tank VD-OB In-line bag filter	150	EAF	Deep drawing qualities	
110	Perwaja Trengganu SDN, BHP  Kemanan Malaysia	1994	Single tank VD	50	EAF		Via Matsubo for NKK
109	USS Lorain  Lorain / Ohio USA	1994	Single tank VD	120	EAF		Via MDC (now SMS Demag Inc.)
108	Essar Steel Ltd.  Hazira India	1994	Single tank VD-OB	130	EAF	Deep drawing qualities Electric steel Pipe steel	
107	CF & I Steel Corp.  Pueblo / Colorado USA	1994	Single tank VD	115	BOF	Rail steel Wire grades Pipe steel	Via MDC (now SMS Demag Inc.)
106	ISCOR Ltd.  Vanderbijlpark South Africa	1994	Single tank VAD	155	EAF		Revamping of No. 42



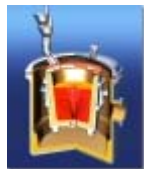
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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
105	Baotou Steel & Rare Earth Corp.  Baotou P.R. of China	1993	Twin tank VD	83	BOF	Rail steel Pipe steel	
104	Remi Metals  Gujarat India	1993	Single tank VD/VOD	25	EAF	Stainless steel Electric steel Deep drawing qualities Pipe steel	
103	SOLLAC  Seremange (Florange) France	1992	Twin tank VD	240	BOF	ULC steel Electric steel	
102	Karl Liebknecht (Nishnedneprowski)  Dnepropetrovsk Ukraine	1992	Single tank VD	115	OHF	Train wheel steel	
101	Gröditz Stahlwerke  Gröditz Germany	1992	Single Tank VD/VOD	50	EAF	Stainless steel Bearing steel Pipe steel Forging steel	
100	Aços Finos Piratini (Gerdau S.A.)  Porto Allegre Brazil	1992	Single Tank VD/VOD	50	EAF	Stainless steel Bearing steel Tool steel Free-cutting steel	
099	Metal & Steel Factory  Ishapore India	1992	Single tank VD	20	EAF		
098	Mannesmann S.A.  Belo Horizonte Brazil	1991	Single tank VD	80	BOF	Bearing steel Pipe steel	
097	SIDERCA S.A.  Calarasi Romania	1991	Single tank VD	85	BOF	Heavy plates Off-shore steel	



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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
096	Röhrenwerke Bous  Bous/Saar Germany	1991	Single tank VD	70	EAF	Pipe steel	
095	Kia Kohema Steel Phase 1  Kunsan South Korea	1990	Single tank VD	60	EAF		
094	Ascometal  Hagondange France	1990	Single tank VD	110	EAF	Bearing steel	
093	Dalmine S.p.A.  Dalmine Italy	1990	Single tank VD	90	EAF	Pipe steel	
092	Charter Electric  Saukville, Wisconsin USA	1990	Single tank VAD	60	EAF	Wire grades	Via MDC (now SMS Demag Inc.)
091	Warren Consolidated Ind.  Warren, Ohio USA	1990	Single tank VD	130	BOF		Via MDC (now SMS Demag Inc.)
090	Krupp VDM GmbH  Unna Germany	1990	Single tank VD/VOD	20/30	EAF	Stainless steel FeNi-alloy NiCu-alloy Ni (pure) Fe (pure)	
089	Steel Authority of India Ltd.  Durgapur India	1989	Single tank VAD	130	BOF		
088	Cemtas A.S.  Bursa Turkey	1989	Single tank VD	25	EAF		



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087	Steel Authority of India Ltd.  Bhilai India	1989	Single tank VAD	130	BOF	Rail steel	
086	ACINDAR Industria Argentina de Aceros S.A.  Tablada Argentina	1989	Single tank VD	50	EAF		
085	Kangwon Industrial Co., Ltd.  Pohang Rep. of Korea	1989	Single tank VD	100	EAF		
084	Kangwon Industrial Co., Ltd.  Pohang Rep. of Korea	1989	Single tank VD	75	EAF		
083	Mannesmann Hüttenwerke AG  Duisburg Germany	1989	Single tank VD	225	BOF	Pipe steel	
082	Tianjin General Seamless Tube  Tianjin P.R. of China	1988	Single tank VD	150	EAF	Pipe steel	
081	BMZ  Shlobin Belarus	1988	Single tank VD	100	EAF		Via Voest Alpine Industrieanlagenbau (VAI)
080	ESAC  Tainan Taiwan, R.O.C.	1988	Single tank VD	25	EAF	Forging steel	
079	SICARTSA  Lazaro Cardenas Mexico	1986	Single tank VD	200	EAF		Via Matsubo for NKK



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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
078	Thyssen Krupp Stahl AG  Duisburg-Ruhrort Germany	1986	Twin tank VD	140	BOF	Rail steel Bearing steel Case hardening steel	
077	Asil Celik  Orhangazi Turkey	1986	Single tank VD	45	EAF	Tool steel	
076	Lucchini Siderurgica S.p.A. Stab Di Piombino  Italy	1986	Vacuum sealed ladle	120	BOF	Carbon steel Rail steel	Built by Concast (ABB)
075	Mannesmann Hüttenwerke AG  Duisburg-Huckingen Germany	1985	Single tank VD	225	BOF	Pipe steel	
074	P. Echeverria S.A.  Legazpia Spain	1985	Single tank VAD	30/50	EAF	Stainless steel Tool steel	
073	Forjas y Aceros de Reinosa S.A.  Reinosa Spain	1985	Single tank VAD	30/65	EAF		
072	Arbed Differdingen  Differdingen Luxembourg	1985	Single tank VD	125-165	BOF		Built by MAN GHH (now SMS Demag)
071	Industrias Campos Hermanos S.A.  Mexico City Mexico	1985	Single tank VD	40	EAF		
070	Cia Sid. Belgo Mineira  Minasgerais Brazil	1985	Single tank	100	BOF	Carbon steel Low alloyed grades	Built by Concast (ABB)



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069	Steel Authority of India Ltd.  Durgapur India	1984	Single tank VAD	60	EAF	Bearing steel Spring steel	
068	Cia. Siderurgica Huachipato S. A.  Huachipato Chile	1984	Vacuum sealed ladle	22	EAF		
067	Babcock & Wilcox Espanola, S.A.  Galindo (Vizcaya) Spain	1984	Single tank VD	110	EAF		
066	Marathon Le Tourneau Co.  Longview, Texas USA	1984	Single tank VD	27	EAF	Heavy plates	
065	Steel Authority of India Ltd. Rourkela Steel Plant  Rourkela India	1984	Single tank VAD	60	BOF		
064	Peine Salzgitter AG  Peine Germany	1983	Single tank VD	90	EAF		Built by MAN GHH (now SMS Demag)
063	S.A. Usines à Tubes de la Meuse  Seraing Belgium	1983	Single tank VD	80	EAF	Pipe steel	
062	Krupp Stahl AG  Bochum Germany	1983	Single tank VD	100	EAF		
061	Zelezarna Ravne  Ravne na Koroskem Slovenia	1983	Single tank VAD	45	EAF		Arc heating facility built by Heurtey



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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
060	Zelezarna Ravne  Ravne na Koroskem Slovenia	1983	Single tank VAD	45	EAF		Arc heating facility built by Heurtey
059	Fabrique de Fer de Charleroi  Charleroi Belgium	1982	Twin tank VAD, VD/VOD	140/180	EAF	Stainless steel Heavy plates	
058	Peine Salzgitter AG  Salzgitter Germany	1982	Single tank VD	180	BOF	Heavy plates	
057	Saarstahl AG Röchling-Burbach GmbH  Völklingen Germany	1982	Single tank VD	125	EAF		
056	Kobe Steel Ltd.  Takasago Japan	1981	Single tank VD	100	EAF	Forging steel	
055	INI Steel  Inchon South Korea	1981	Single tank VAD	110	BOF		
054	TISCO  Jamshedpur India	1981	Single tank VAD	130	BOF	Pipe steel Wire grades	
053	British Steel plc  Stocksbridge Great Britain	1981	Single tank VAD	60-100	EAF		
052	Acciaierie Venete Spa Camin Plant  Italy	1981	Vacuum sealed ladle	70	EAF	Carbon steel Low alloyed grades	Built by Concast (ABB)



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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
051	ISCOR Ltd.  Pretoria South Africa	1980	Single tank VAD	60-125	Rotor + EAF		
050	Kloekner-Werke AG  Osnabrück Germany	1978	Vacuum sealed ladle VD	125	BOF		
049	British Steel plc  Motherwell Great Britain	1978	Single tank VAD	130	BOF	Heavy plates	
048	Stahlwerke Südwestfalen AG Werk Geisweid  Siegen-Geisweid Germany	1978	Vacuum sealed ladle VD	110	EAF		
047	Zeljczara Niksic AD  Yugoslavia	1978	Vacuum sealed ladle	60	EAF	Ball bearing steel Low alloyed grades	Built by Concast (ABB)
046	Sumitomo Metal Ind., Ltd. Kokura Works  Kokura Japan	1977	Single tank VAD	70	BOF		
045	AFL Falck Union  Milano Italy	1977	Single tank VAD	140	EAF	Bearing steel Electric steel	
044	British Steel plc  Rotherham Works Great Britain	1977	Single tank VD	165	EAF		
043	Nippon Kokan  Ohgishima Japan	1976	Single tank VAD	60	EAF	Pipe steel	



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042	ISCOR Ltd.  Vanderbijlpark South Africa	1974	Single tank VAD	155	EAF	Heavy plates	
041	Kloekner-Werke AG  Osnabrück Germany	1974	Single tank VD	200/210	EAF		
040	Lucchini Siderurgica S.p.A. Stab. die Lovere  Italy	1974	Vacuum sealed ladle	50	EAF	Stainless and forging grades (ingot)	Built by Concast (ABB)
039	Dalmine S.p.A.  Dalmine Italy	1973	Single tank VAD	70	EAF	Pipe steel	
038	Mitsubishi Heavy Industries Ltd.  Hiroshima Japan	1972	Single tank VAD	18/30	EAF	Forging steel	
037	Gußstahlwerk Gelsenkirchen  Gelsenkirchen Germany	1972	Single tank VAD	16/33	EAF	Stainless steel	
036	British Steel plc  Sheffield Great Britain	1972	Single tank VAD	30/90	EAF	Forging steel	
035	Firth Brown Ltd.  United Kingdom	1972	Vacuum sealed ladle	60	EAF	Forging steel grades (ingot)	Built by Concast (ABB)
034	Nisshin Steel Corp.  Kure City Japan	1971	Single tank VAD	90	BOF		



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033	Aços Anhanguera S.A.  Mogi das Cruzes Brazil	1971	Single tank VD	40	EAF		
032	Dalmine SpA (Fabbrica Italiana tubi, SpA)  Italy	1971	Vacuum sealed ladle	50	EAF		Built by Concast (ABB)
031	Heavy Engineering Co. Foundry Forging  Ranchi India	1970	Single tank VD	20-40	OHF, EAF	Forging steel	
030	Stahl- und Röhrenwerke Reisholz  Düsseldorf Germany	1970	Single tank VD	100	EAF	Forging steel	
029	Gebr. Boehler & Co. AG  Düsseldorf Germany	1970	Single tank VD	20-45	EAF	Forging steel	
028	Schoeller-Bleckmann Stahlwerke  Ternitz Austria	1970	Single tank VAD	20-45	EAF	Tool steel	
027	SSAB Oxelösund AB  Sweden	1970	Vacuum sealed ladle	140	LD	Carbon steel for flat products	Built by Concast (ABB)
026	Pedro Orbegozo  Hernani Spain	1969	Single tank VAD	20-70	EAF		
025	Nihon Koshuha Kogyo Co.  Toyama Japan	1966	Single tank VD	30	EAF	Bearing steel	

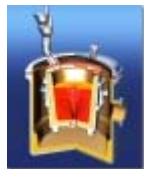


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NO	CUSTOMER	YEAR	TYPE OF UNIT	HEAT SIZE T	MELTING UNIT	PRODUCTS	REMARKS
024	Deutsche Edelstahlwerke AG  Krefeld Germany	1966	Single tank VD	30	EAF		
023	Dunford Hadfields  East Hecla/Sheffield Great Britain	1966	Single tank VD	30	EAF	Forging steel	
022	Von Roll AG  Gerlafingen Switzerland	1966	Single tank VD	50-60	EAF	Forging steel	
021	Edelstahlwerke Witten AG  Witten Germany	1965	Single tank VD	1/5	IF		
020	Soc. D'Electrochimie  Annecy France	1965	Single tank VD	2-4	EAF		
019	Brown Bayley Steels Ltd.  Attercliffe/Sheffield Great Britain	1964	Single tank VD	70	EAF	Bearing steel	
018	Sanyo Special Steel Co. Ltd.  Shikama/Himeji Japan	1962	Single tank VD	70	EAF	Bearing steel	
017	Brierley Hill Laboratory Ltd.  Brierley Hill Great Britain	1962	Single tank VD	6	EAF	Pipe steel	
016	Round Oak Steel Works Ltd.  Brierley Hill Great Britain	1962	Single tank VD	70	EAF	Bearing steel Pipe steel	



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015	Dunford Hadfields  East Hecla/Sheffield Great Britain	1962	Single tank VD	60	OHF EAF	Forging steel	
014	Kloekner-Werke AG  Osnabrück Germany	1962	Single tank VD	120	OHF EAF	Stainless steel Forging steel	Extension of No. 2
013	William Beardmore & Co. Ltd.  Parkhead/Glasgow Great Britain	1961	Single tank VD	80-120	EAF	Forging steel	
012	S. A. Fives Lille-Cail Usines des Denain  Denain France	1961	Single tank VD	45	EAF	Forging steel	
011	Jessop Saville Ltd.  Sheffield Great Britain	1961	Single tank VD	30	EAF	Tool steel	
010	Institut für Metallurgie  Bukarest Romania	1961	Single tank VD	0,5			Pilot plant
009	Edelstahlwerke Buderus AG  Wetzlar Germany	1961	Single tank VD	80	OHF EAF	Stainless steel Forging steel	
008	Clyde Alloy Steel Co., Ltd.  Motherwell Great Britain	1960	Single tank VD	25	EAF	Stainless steel	
007	Vody V. J. Lenina  Pilsen Czech Republic	1960	Single tank VD	70	OHF EAF	Forging steel	



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006	Deutsche Edelstahlwerke AG  Witten Germany	1960	Single tank VD	120	OHF	Bearing steel Tool steel Forging steel	
005	Deutsche Edelstahlwerke AG  Krefeld Germany	1959	Single tank VD	18-40	EAF	Bearing steel Forging steel	
004	Mannesmann Hüttenwerke AG  Duisburg Germany	1959	Single tank VD	30	EAF	Pipe steel	
003	Edelstahlwerke Buderus AG  Wetzlar Germany	1959	Single tank VD	8-30	EAF	Forging steel	
002	Kloekner-Werke AG  Osnabrück Germany	1958	Single tank VD	70	OHF EAF	Stainless steel Forging steel	
001	Koninklijke Demka Staalfabrik  Utrecht Netherland	1958	Single tank VD	50	EAF	Forging steel	