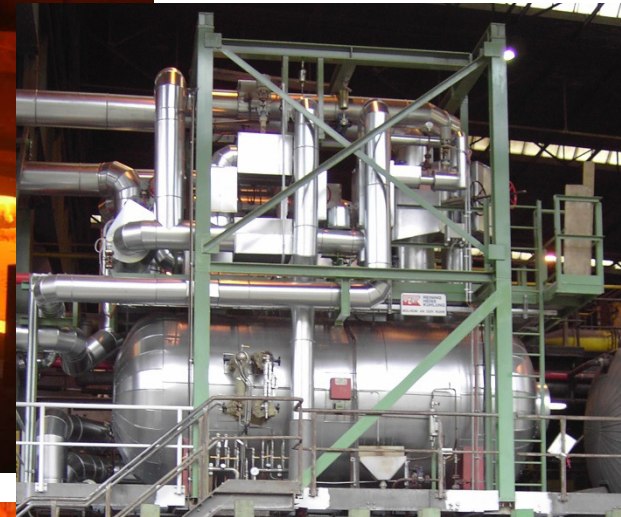




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Reference List : 1949 - 2019





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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
1949		Rheinstahl Hüttenwerke AG, Gußstahlwerk Gelsenkirchen / Germany	3	open hearth fce	25	9 6	door frames gas burners	forced	0,5	direct
1951		Stahlwerke Bochum AG / Germany	2	open hearth fce	65	6	door frames	forced	1,5	direct
1953		Niederrheinische Hütte AG, Duisburg / Germany	7	open hearth fce	65	21	door frames	forced	0,5	direct
1954		Rheinstahl Hüttenwerke AG, Gußstahlwerk Gelsenkirchen / Germany	1	electric arc furnace	5		cover ring door frame	forced	0,5	direct
1954		Hoesch AG Hüttenwerke, plant Phoenix, Dortmund-Hörde / Germany	all	annealing-forging fce			all door frames	natural	0,5	direct
1955		Stahlwerke Bochum AG / Germany	2	pusher type fce	50	4	door frames	natural	1,5	direct
1956		Hoesch AG Hüttenwerke, plant Phoenix, Dortmund-Hörde / Germany	1	pusher type fce	110		inside piping	forced	0,5	direct
1957		Hoesch AG Hüttenwerke, plant Phoenix, Dortmund-Hörde / Germany	1	open hearth fce	100	3	door frames	natural	42	direct
1958		Stahlwerke Südwestfalen AG, plant Eckesey, Hagen / Germany	3	open hearth fce	50	9	door frames	natural	16	direct
1958		Stahlwerke Südwestfalen AG, plant Eckesey, Hagen / Germany	2	open hearth fce	75	6	door frames	natural	16	direct
1959		Friedr. Krupp Hüttenwerke AG, plant Düsseldorf-Benrath / Germany	1	pusher type fce	60		inside piping cooling boxes	forced natural	3,5 0,5	direct
1959		Halmstads Jernverks AB, Halmstad / Sweden	1	open hearth fce	50	3	door frames	natural	25	direct
1960		Walzwerke AG, Köln-Mülheim / Germany	3	open hearth fce	50	9	door frames	natural	12	direct



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
	1960	August-Thyssen-Hütte AG, plant Duisburg-Ruhrort / Germany	3	basic Bessemer converters	75		stack panel	natural	0,5	Demag/Duisburg
	1960	Siderurgia National, plant Seixal / Portugal	1	LD-converter	30		stack panel	natural	0,5	Demag/Duisburg
	1960	Mannesmann AG, plant Grillo-Funke, Gelsenkirchen / Germany	2	open hearth fce	50	6	door frames	natural	12	Oschatz, Essen
	1960	Svenskt Stal, Oxelösund / Sweden	1	open hearth fce	150	5	door frames	natural	57	Ekströms
	1960	Hüttenwerke Siegerland AG, plant Wehbach / Germany	1	open hearth fce	80	3	door frames	natural	14	Demag
	1960	Usinor, Usine de Longwy / France	1	open hearth fce	100	3	door frames	natural	20	Maerz
	1960	Cockerill-Ougree-Providence, Usine de Rehon / France	1	pusher type fce	70		inside piping	forced	12	Stein et Roubaix
	1960	Usinor, Usine de Longwy / France	1	pusher type fce	100		inside piping cooling boxes	forced natural	20 2	Stein et Roubaix
	1961	August Thyssen-Hütte AG, plant Duisburg-Ruhrort / Germany	5	open hearth fce	100	15	door frames	natural	16	direct
	1961	Voest-Alpine AG, plant Donawitz / Austria	1	pusher type fce	80		inside piping	forced	10 Hot water	Stein et Roubaix
	1961	SKF-Hellefors Jernverks AB, Hellefors / Sweden	1	open hearth fce	70	3	door frames	natural	42	Ekströms
	1961	Smedjebackens Valsverks AB, Smedjebacken / Sweden	2	open hearth fce	80	6	door frames	natural	25	Ekströms
	1961	Gußstahlwerk Witten AG, Stahlwerk Mark,Wengern-Ruhr / Germany	1	open hearth fce	50	3	door frames	natural	12	Maerz



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
1961		Stahlwerke Bochum AG, Bochum / Germany	1	electric arc furnace	70	2 1 1 1	door frames door roof ring waste gas elbow	forced	5	direct
1961		SA Marrel-Frères, Rive de Gier / France	2	open hearth fce	50	6	door frames	natural	20	direct
1962		Steel Comp. of Wales, Port Talbot / Great Britain	4	VLN-converters			stack panel	natural	12,5	Stein Atkinson Stordy
1962		Dalsbruks Järnverks AB, Dalsbruk / Finland	1	open hearth fce	50	3	door frames	natural	27	Ekströms
1962		Fiat, Sezione Ferriere, Torino / Italy	1	open hearth fce	120	3	door frames	natural	16	Fiat/Maerz
1962		British Steel Corp., Spencer Works Llanwern / Great Britain	3	pusher type fce	250		inside piping lintels	forced	2	Stein Atkinson Stordy
1962		Usinor, Dunkerque / France	2	hearth type fce		2	door frames	natural	0,5	Stein et Roubaix
1962		Usinor, Dunkerque / France	1	pusher type fce	110		inside piping	forced natural	12	Stein et Roubaix
1962		Voest-Alpine AG, plant Donawitz / Austria	1	pusher type fce	100		inside piping	forced	10 Hot water	Stein et Roubaix
1963		Usinor, Dunkerque / France	2	pusher type fce	250		inside piping	forced	12	Stein et Roubaix
1963		UCPMI, Hagondange / France	1	pusher type fce	57		inside piping	forced natural	10	Stein et Roubaix
1963		August-Thyssen-Hütte AG, Duisburg-Ruhrort / Germany	1	basic Bessemer	75		stack cooling primary gas cleaning	natural	0-16	August-Thyssen Hütte AG



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
	1963	AB SKF-Hofors Bruk, Hofors / Sweden	1	open hearth fce	120	3	door frames	natural	57	Ekströms
	1963	Lancashire Steel Comp., Irlam / Great Britain	3	tilting open hearth fce	250	15 6	door frames oil burners	natural	16	Stein Atkinson Stordy
	1963	Compania Auxiliar de Ferrocarriles, Beasain / Spain	2	open hearth fce	30	6	door frames and all cooling pipes	forced	0,5	Vapor
	1963	Fiat, Sezione Ferriere, Torino / Italy	1	open hearth fce	120	3	door frames	natural	16	Fiat/Maerz
150	1964	Friedr. Krupp Hüttenwerke AG, plant Bochum (Höntrop) / Germany	3	tilting open hearth fce	150	9	door frames	natural	32	direct
151	1964	Friedr. Krupp Hüttenwerke AG, plant Bochum (Höntrop) / Germany	1	tilting open hearth fce	225	5	door frames	natural	32	direct
	1964	Ilseeder Hütte, Peine / Germany	3	open hearth fce	30	9	door frames	natural	12	direct
	1964	Ilseeder Hütte, Peine / Germany	3	LD-converter	75	3	converter hoods	natural	2	Friedr. Krupp/Essen
148	1965	Stahlwerke Südwestfalen AG, plant Eckesey, Hagen / Germany	1	open hearth fce	75	3	door frames	natural	16	direct
	1965	Svenskt Stal Domnarvet, Borlänge / Sweden	1	pusher type fce	100		inside piping	natural	25	Ugusbolaget / Ekströms
	1965	Svenskt Stal, Oxelösund / Sweden	1	pusher type fce	80		inside piping	forced	40	Ekströms / Westofen
126	1966	Hüttenwerke Oberhausen AG, Oberhausen / Germany	2	open hearth fce	280	10	door frames	natural	16	direct
	1966	Hoesch AG Hüttenwerke, plant Phoenix, Dortmund-Hörde / Germany	1	pusher type fce	15		inside piping	forced	0,5	direct



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
	1966	VEB Stahl- und Walzwerk Wilh. Florin, Hennigsdorf / GDR	1	open hearth fce	100	3	door frames	natural	25	Maerz
	1966	Altos Hornos de Mexico SA, Monclova / Coah. / Mexico	1	pusher type fce	40		inside piping	forced natural	16	Rust
127	1967	Hüttenwerke Oberhausen AG, Oberhausen / Germany	1	open hearth fce	280	3 2	frames and lids for roof charging	natural	16	direct
	1967	Fiat, Sezione Ferriere, Torino / Italy	1	open hearth fce	120	3	door frames	natural	16	Fiat/Maerz
	1967	SKF-Hellefors Jernverk AB, Hellefors / Sweden	1	open hearth fce	50	5	door frames	natural	44	Ekströms
	1967	Rautaruukki Oy, Raahe / Finland	1	pusher type fce	100		inside piping	forced	45	Stein Atkinson Stordy
127	1968	Hüttenwerke Oberhausen AG, Oberhausen / Germany	1	open hearth fce	280	3 2	frames and lids for roof charging	natural	16	direct
	1968	VEB Stahl- und Walzwerk, Wilh. Florin, Hennigsdorf / GDR	2	open hearth fce	100	6	door frames	natural	25	Maerz
	1968	Trinecke Zelezárny, Trinec / CSSR	1	open hearth fce	230	5	door frames	natural	20	Strojimport/Maerz
	1968	Rheinstahl Hüttenwerke AG, Ruhrstahl Henrichshütte, / Hattingen / Germany	2	open hearth fce	100 + 80	6	door frames	forced	52	Maerz
	1968	Fiat, Sezione Ferriere, Torino / Italy	1	open hearth fce	120	3	door frames	natural	16	Fiat/Maerz
	1968	Usinor, Dunkerque / France	1	pusher type fce	250		inside piping	forced	12	Stein et Roubaix
	1969	Fiat, Sezione Ferriere, Torino / Italy	1	pusher type fce	120		inside piping lintels	natural	15	Fiat/Maerz



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
	1969	Usinor, Dunkerque / France	1	pusher type fce	180		inside piping	natural	12	Stein et Roubaix
	1969	VEB Stahl- und Walzwerk Wilh. Florin, Hennigsdorf / GDR	2	open hearth fce	100	6	door frames	natural	25	Maerz
	1969	Aceros Nacionales SA, Tlalnepantla / Mexico	2	pusher type fce	31 + 40		inside piping	natural	17	Electronica Industrial
	1970	Altos Hornos de Mexico SA, Monclova / Mexico	1	open hearth fce	280	5	door frames	natural	15	Electronica Industrial
	1970	Rautaruukki Oy, Raahe / Finland	1	pusher type fce	100		inside piping	natural	45	Stein Atkinson Stordy
470	1971	Friedr. Krupp Hüttenwerke AG, plant Bochum / Germany	1	walking beam fce	265		inside piping	forced	32	TEG/OFU
471	1971	Stahlwerke Peine-Salzgitter AG Salzgitter / Germany	1	pusher type fce	300		inside piping	natural	27	Italimpianti/I
	1971	Friedr. Krupp Hüttenwerke AG plant Bochum (Höntrop) / Germany	1	pusher type fce	150		inside piping	forced	4 Cold water	Thermo Engineering
	1971	Altos Hornos de Mexico SA, Monclova / Mexico	1	blast fce	Ø 7,5 m 1500/Tag		cooling boxes	natural	1	Demag
	1971	Cockerill-Ougree-Providence, Rehon / France	1	pusher type fce	145		inside piping	forced	10	Stein Surface
478	1972	Bandstahl Berlin GmbH, West-Berlin / Germany	1	pusher type fce	95		inside piping	natural	14	Ignis
	1972	British Steel Corp., Llanwern / Great Britain	2	pusher type fce	250		inside piping	natural	16	Stein Atkinson Stordy
	1972	British Steel Corp., Dorman Long Works, Middlesbrough / Great Britain	1	pusher type fce	180		inside piping	natural	17,5	Stein Atkinson Stordy



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
	1973	Usinor, Dunkerque / France	1	pusher type fce	250		inside piping	forced	12	Stein Surface
	1973	Mannesmann AG, Duisburg-Huckingen / Germany	1	blast fce hearth	10,3 m Ø		warm water closed circuit for all boxes, tuyeres, water jackets, hot-blast valves	forced	0,5	consulting for Demag
636	1974	S.A. Solmer, plant Fos-sur-Mer / France	2	blast fce	10,1 m ø	each 688	cooling boxes, system ROHDE-REINING	natural	2,5	Solmer
	1974	Norbottens Järnverk AB, plant Lulea / Sweden	1	blast fce	8,5 m ø	432	cooling boxes hearth and bosh water jacket cooling system ROHDE-REINING	natural	0,5	Demag
	1974	ISCOR, Newcastle / South Africa	2	pusher type fce	150		inside piping lintels	natural	14	Stein Atkinson Stordy
	1974	Siderurgica Venezolana S.A."Sivensa", Caracas / Venezuela	1	pusher type fce	45		inside piping lintel	natural	15	Rust
	1974	Rheinstahl Hüttenwerke AG, Henrichshütte Hattingen / Germany	1	pusher type fce	120		inside piping	forced	0,5 Hot water	Büttner, Schilde, Haas
	1974	British Steel Corp. Works, Ravenscraig / Great Britain	1	pusher type fce	230		inside piping	natural	15	Stein Atkinson Stordy
	1975	August-Thyssen Hütte, Duisburg-Hamborn / Germany		testconverter			converter hood	natural	0,2	ATH
4105	1976	Stahlwerke Peine-Salzgitter AG plant Salzgitter / Germany	1	pusher type fce	300		inside piping	natural	27	Italimpianti/I
	1976	Rautaruukki Oy, Raahe / Finland	2	pusher type fce	100		inside piping	natural	16	Stein Atkinson Stordy
	1976	Fundidora S.A., Monterrey / Mexico	1	pusher type fce	300		inside piping lintels	natural	15	Loftus
	1976	Altos Hornos de Mexico Monclova / Mexico	2	pusher type fce	100 + 85		inside piping	natural	15	Loftus



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
	1976	Mannesmann-Röhren-Werke, Mülheim-Ruhr / Germany	1	pusher type fce	120		inside piping	forced	suitable for 23	BSH and Koppers-Wistra
498	1977	Huta Katowice / Poland (Traloka)	2	walking beam fce	200		inside piping	forced	15	Stein Surface
4124	1977	Thyssen AG, plant Bruckhausen / Germany	1	walking beam fce	110		inside piping	forced	4 Hot water	OFU
4124	1977	Thyssen AG, plant Bruckhausen / Germany	1	walking beam fce	85		inside piping	forced	4 Hot water	OFU
	1977	Rautaruukki Oy, Raahe / Finland	1	pusher type fce	100		inside piping	natural	16	Salem U.K.
498	1978	Huta Katowice / Poland (Miwice)	2	walking beam fce	180		inside piping	forced	15	Stein Surface
4105	1978	Stahlwerke Peine-Salzgitter AG plant Salzgitter / Germany	1	pusher type fce	140		inside piping	natural	27	Italimpianti/D
4135	1978	Huta Katowice / Poland*	3	walking beam fce	465		inside piping	forced	45	Stein Heurtey
	1978	Svenskt Stal Domnarvet, Borlänge / Sweden	1	pusher type fce	120		inside piping	natural	25	direct
	1978	Krefeld	1	electric arc furnace	80		off gas duct	forced		LURGI
1512	1979	Oberhausen	2	electric arc furnace	147		2 off gas duct	forced	11-23	Thyssen Engineering
1520	1979	Oberhausen		electric arc furnace	147		4 furnace elbow	forced	5	GHH
1525	1979	Völklingen (Burbach)	1	walking beam fce	150/180		Skid system	forced	12	Didier/ OFU



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4112	1979	Voest-Alpine AG, plant Donawitz / Austria Drahtstraße	1	walking beam fce	150		inside piping	forced	17 Hot water	OFU
487	1980	Friedr. Krupp Hüttenwerke AG, plant Bochum / Germany	1	walking beam fce	265		inside piping lintels	forced	23	Italimpianti
4029	1980	Kobe Steel, Kakogawa / Japan	1	walking beam fce	305		inside piping	forced	10	Schack Eng./Japan
4033	1980	Kobe Steel, Nadahama / Japan	1	walking beam fce	110		fixed inside piping	forced	10	Schack Eng./Japan
4034	1980	Daido Steel, Chita / Japan	1	walking beam fce	100		fixed inside piping	forced	10	Schack Eng./Japan
4121	1980	Huta Nowotki / Poland	1	walking beam fce	220		inside piping	forced	15	Stein Surface
4148	1980	Voest-Alpine AG, plant Donawitz / Austria VA-Schiener	1	walking beam fce	140		inside piping	forced	45	OFU
1524	1981	Ilseburg	2	pusher type fce	90		Skid system	natural/forced	21	AMCO, Wien
1532	1981	Bochum	1	electric arc furnace	147		off gas duct wall panels	forced	10-25	Krupp Hüttenwerke
4140	1981	Svenskt Stal Domnarvet, Borlänge / Sweden	1	walking beam fce	300		inside piping lintel	forced	27	Italimpianti/I
4190	1981	Max Aicher GmbH u. Co. Steel plant Annahütte / Germany	1	walking beam fce	42		inside piping	forced	suitable for 29	OFU
4170	1981	Buderus Edelstahl, Wetzlar / Germany	1	pusher type fce	40		inside piping lintels door frames	forced	16 Hot water	Buderus, Wistra
1335	1982	Diombino	1	walking beam fce	170		Skid system	forced	24	Italimpianti (D)



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
1537	1982	Maxhütte Unterwellenborn (SWT)	1	pusher type fce	180		Skid system	natural/forced	12	OFU
4035	1982	Sumitomo Metal, Kashima / Japan	2	walking beam fce	350		inside piping	forced	9	Chugai Ro
4147	1982	Soc. Solmer, Fos-sur-Mer / France	1	walking beam fce	350		inside piping	forced	18	Stein/Heurtey
4198	1983	Maximilianshütte, Sulzbach-Rosenberg / Germany	1	walking beam fce	90		inside piping	forced	15	Italimpianti/D
4170	1983	Buderus Edelstahl, Wetzlar / Germany	1	pusher type fce	30		inside piping door frames lintels	forced	16 Hot water	Buderus, Wistra
	1983	Bhilai Steel Plant / India	1	pusher type fce	120		inside piping	natural	18	Stein Heurtey
	1983	Stelco Inc. Lake Erie Works, Nanticoce / Canada	1	pusher type fce	250		inside piping lintels	natural	29	Salem Canada
4223	1984	Svenskt Stal, Oxelösund / Sweden	1	pusher type fce	80		inside piping (reconstruction)	forced	40	Didier
4231	1984	British Steel Corp., Llanwern / Great Britain	1	pusher type fce	250		inside piping (reconstruction)	natural	16	Stein Atkinson Stordy
	1984	Bhilai Steel plant / India	1	pusher type fce	120		inside piping	natural	18	Stein Heurtey
1569	1985	Hoesch Union	1	walking beam fce	130		Skid system	forced	13,5	Italimpianti (D)
4053	1985	Kawasaki Steel, Chiba / Japan	1	walking beam fce	170		inside piping	forced	16	Chugai Ro
4220	1985	British Steel Corp., Teeside Lackenby / Great Britain	1	walking beam fce	250		inside piping	forced	17	Mechatherm, Priest Fce



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4239	1985	Hoesch, Hohenlimburg / Germany	1	walking beam fce	165		inside piping	forced	15	Stein Heurtey
4247	1985	Svenskt Stal, Oxelösund / Sweden	1	pusher type fce	80		inside piping (reconstruction)	natural	40	Didier
739	1985	Thyssen Edelstahlwerke, Krefeld / Germany	1	electric arc furnace	80		wall panels roof panels	forced	17	Mannesmann Demag
	1985	Bhilai Steel Plant / India	1	pusher type fce	120		inside piping	natural	18	Stein Heurtey
4052	1986	POHANG Steel (Posco) HSM 1, Kwang Yang / Korea	2	walking beam fce	350		inside piping	forced	8 Hot water	Chugai Ro
4130	1986	O.E.M.K. Kursk / USSR	1	walking beam fce	150		inside piping	forced	20	Stein Heurtey
4228	1986	British Steel Corp. Ravenscraig / Gr. Britain	1	pusher type fce	170		inside piping (reconstruction)	forced	41	Cameron Iron Works
4230	1986	Terni S.p.A. / Italy	1	walking beam fce	200		inside piping	forced	25	Italimpianti/I
4238	1986	Thyssen Edelstahlwerke, Witten / Germany	1	pusher type fce	48		inside piping	forced	10 Hot water	Maerz
1574	1987	Micard UdSSR	1	walking beam fce	90		Skid system	hot water	8	Didier/ OFU
1587	1987	Bochum	1	electric arc furnace	147		furnace roof	forced	7	Krupp Hüttenwerke
4130	1987	O.E.M.K. Kursk / USSR	1	walking beam fce	150		inside piping	forced	20	Stein Heurtey
4241	1987	DOFASCO Hamilton Works, Hamilton, Ontario / Canada	2	walking beam fce	400		inside piping	forced	25	Italimpianti of America



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4252	1987	Mannesmann, Belo Horizonte / Brasil	1	walking beam fce	100		inside piping	forced	15	Italimpianti do Brasil
4258	1987	Outokumpu Oy, Tornio / Finland	1	walking beam fce	120		inside piping	forced	8	Chugai Ro
4280	1987	British Steel Corp.Ravenscraig / Gr. Britain	1	pusher type fce	170		inside piping (reconstruction)	forced	41	Cameron Iron Works
1585	1988	Kwangyang, Südkorea	1	electric arc furnace	130		off gas duct	forced	6	POSCO
4052	1988	POHANG Steel (Posco), HSM 1 Kwang Yang / Korea	1	walking beam fce	350		inside piping	forced	8 Hot water	Chugai Ro
4263	1988	Stahlwerke Peine-Salzgitter, Peine / Germany	1	walking beam fce	170		inside piping	forced	21	Stein Heurtey
4271	1988	Svenskt Stal Domnarvet, Borlänge Sweden	1	walking beam fce	300		inside piping lintels	forced	27	Chugai Ro
	1988	Skopje Steel Works, Skopje Yugoslavia	2	pusher type fce	115		inside piping	natural	18	Salem UK
4206	1989	VISAG Steel, LMMM Visakhapatnam India	2	walking beam fce	200		inside piping	forced	15	Stein Heurtey
4267	1989	VOLJSKI Steel Works, Wolgograd USSR	1	walking beam fce	200		inside piping	forced	27	Italimpianti
4279	1989	POHANG Steel (Posco) Pohang Korea	1	pusher type fce	75		long skids	forced	4 Hot water	direct
4054	1990	POHANG Steel (Posco), HSM 2 Kwang Yang / Korea	2	walking beam fce	350		inside piping	forced	8 Hot water	Chugai Ro
4250	1990	AG der Dillinger Hüttenwerke, plant Dillingen Germany	1	pusher type fce	280		inside piping	natural	18	Italimpianti/D



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4296	1990	Stelco Inc. Lake Erie Works, Nanticoce / Canada	1	pusher type fce	250		inside piping lintels	natural	29	PIFCOM
4277	1990	Zelezarna Jesenice, Jesenice Yugoslavia	1	pusher type fce	70/t		inside piping (reconstruction)	forced	4 Cold water	Vatrostalna Beograd
4110	1991	Kaavian Heavy Rolling Mill Co. Ahwaz Iran	1	walking beam fce	150		lintels	forced	15	Koppers/Wistra
4270	1991	Hoesch Stahl AG, Dortmund Germany	1	walking beam fce	300		inside piping	forced	38	Italimpianti/D
4301	1991	AG der Dillinger Hüttenwerke, plant Dillingen Germany	1	pusher type fce	250		inside piping	natural	18	direct
4304	1991	Krupp Stahl AG, Bochum Germany	1	pusher type fce	150		inside piping (extension)	natural	23	OFU
9492	1991	Rautaruukki Oy, Raahe Finland	1	pusher type fce	100		long skids	forced	15	direct
	1991	Thyssen Edelstahlwerke Krefeld Germany	1	electric arc furnace	80		fume-duct cooling	forced	17	Oschatz
4217	1992	VISAG Steel, MSMM Visakhapatnam India	2	walking beam fce	130		inside piping	forced	15	Stein Heurtey
	1992	Krupp Stahl AG Bochum Germany	1	walking beam fce	265		modernization 2nd row of systems	forced	23	direct
315	1993	Walzwerk Ilsenburg, Ilsenburg Germany	1	synchronous moving fce			heat recovery engineering, material delivery, supervision of erection and commissioning	forced	13 (99°C)	Voest-Alpine
1626	1993	Neunkirchen Germany	1	walking beam fce	150		Skid system	forced	19	Italimpianti (D)
4055	1993	Kobe Steel Japan	1	walking beam fce			inside piping	forced	Hot water	IHI, Tokyo



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4327	1993	APM Fundidora	1	pusher type fce	190		skid system	natural	15	ITAM
1574	1994	DNM Miskolz Ungarn	1	walking beam fce	70/100		skid system	forced	16	Italimpianti Wien
4336	1994	Kobe Steel USA	1	walking beam fce	130		skid pipes	forced	Cold water	ITAM
9532	1994	Rautaruukki Oy, Raahe Finland	1	pusher type fce	100		long skids	natural	15	direct
	1994	Sollac Dunkerque France	1	pusher type fce	110		skid pipes	forced	12	OFU/Auburtin
	1994	Sollac Dunkerque France	1	pusher type fce	180		skid pipes	natural	12	OFU/Auburtin
	1994	Kobe Steel USA	1	walking beam fce			skid system	forced cold water		ITAM, Pittsburgh
1648	1995	Peine Germany	1	electric arc furnace	100		off gas duct	forced	8	MAN-GHH
4333	1995	SAIL, Bokaro India	1	walking beam fce	300		inside piping	forced	12	Italimpianti / Italy
4335	1995	Krupp Hoesch Stahl AG Bochum Germany	1	pusher type fce	150		waste heat boiler	natural	23	Krupp Hoesch
1658	1996	Bochum Germany		electric arc furnace	147	2	off gas duct wall panels	forced	10-25	Krupp Thyssen Nirosta
4331	1996	Saarstahl, Burbach Germany	1	walking beam fce	200		inside piping	forced	24	Italimpianti/D
9550	1996	Hoesch Hohenlimburg GmbH Germany	1	walking beam fce	190		Evaporator	forced	15	Stein Heurtey



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	1996	Krupp Hoesch Stahl AG Bochum Germany	1	pusher type fce	150		evaporator waste gas	natural	23	direct
4350	1997	EKO-Stahl Eisenhüttenstadt Germany	1	walking beam fce	300		Engineering for cooling system, skids	forced	23	Heurbel
4371	1997	Krupp Hoesch Stahl AG Bochum Germany	1	walking beam fce	240		skidsystem refurbished	forced	23	Krupp Hoesch
4326	1998	Preussag Stahl, Ilsenburg Germany	2	pusher type fce	110		skid and cooling system refurbished	natural	22	direct
9552	1998	Thyssen Krupp Stahl, Bochum Germany	1	walking beam fce	265		skid system partly refurbished	forced	23	direct
9558	1998	Maximilianshütte, Sulzbach-Rosenberg / Germany	1	walking beam fce	90		skid system partly refurbished	forced	15	direct
9563	1998	Hoesch Hohenlimburg GmbH Germany	1	walking beam fce	190		skidsystem refurbished	forced	15	Stein Heurtey
4357	1999	Anshan PR China	3	walking beam fce	270		Engineering for cooling system, skids	forced	13	Ceris Phoenix
771	2000	Siderurgica Hunedoara, Hunedoara, Romania	1	electric arc furnace	100		Engineering for cooling of waste gas ducts post combustion chamber	forced, hot water, 80 - 110 °C	4	dedusting system ZVVZ
4397	2000	Anshan PR China	1	walking beam fce	260		Engineering for cooling system, skids	forced	13	Ceris Phoenix
9586	2000	Voest-Alpine AG, plant Donawitz Austria	1	walking beam fce	140		skid system partly refurbished	forced	45	OFU - LOI
9603 (4326)	2001	Salzgitter AG, Ilsenburg Germany	1	pusher type fce	110		hearth removed skid system extended	natural	22	Maerz-Gautschi
4311	2002	Salzgitter Flachstahl Germany	1	walking beam fce	300		Engineering for cooling system, skids	forced	27	Techint- Intalimpianti



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4311	2002	Salzgitter Flachstahl Germany	1	different			Waste heat recovery system for the waste gas of total 3 furnaces	forced	27	
4357	2002	Anshan PR China	1	walking beam fce	270		Engineering for cooling system, skids	forced	13	Ceris Phoenix
4377	2002	Wuhan PR China	2	walking beam fce	260		Engineering for cooling system, skids	forced	13	Ceris Phoenix
4389	2002	Beiman Steel, Qiqihar PR China	1	walking beam fce	100		Engineering for cooling system, skids	forced	16	Ceris Phoenix
4398	2002	Stahlwerk Thüringen Germany	1	pusher type fce	180		hearth removed skid system extended	natural	14	Maerz-Gautschi
4405	2002	Daxing / Anshan - New Steel Plant PR China	1	walking beam fce	170		Engineering for cooling system, skids	forced	13	Anshan Design Institute
9616 (4326)	2002	Salzgitter AG, Ilseburg Germany	1	pusher type fce	110		hearth removed skid system extended	natural	22	Maerz-Gautschi
4239-10	2002	Hoesch Hohenlimburg Germany	1	walking beam fce	190		roller table cooling system	forced	8 hot water	direct
4220.01	2003	Lackenby, CORUS United Kingdom		walking beam fce	250		replacement of skids discharge side half fce	forced	17	CORUS
330A001	2003	Korea Zinc, MARPUTO Plant South Korea	1	offgas cooler fly ash treatment			membrane cooling channel	forced	24 hot water	Korea Zinc
4220E006	2004	Lackenby, CORUS United Kingdom		walking beam fce	250		replacement of skids, frames 2 on charging side of fce	forced	17	CORUS
335A000	2004	Koarea Zinc, Ulsan Copperplant, South Korea	1	offgas cooler fly ash treatment			membrane cooling channel	forced	24 hot water	Korea Zinc
4411A000	2004	Neunkirchen Saarstahl Germany	1	walking beam fce	150		Engineering and delivery for cooling system, skids. Heat recovery	forced	10 hot water	Techint- Intalimpianti



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4419A000	2004	Hoesch Hohenlimburg Germany	1	walking beam fce	80		Engineering and delivery for cooling system, skids.	forced	16	LOI
4410A000	2004	Nauweiler Saarstahl Germany	1	walking beam fce	150		Engineering and delivery for cooling system, skids. Heat recovery	forced	20	Techint-Intalimpianti
4105A000	2005	Salzgitter Flachstahl Germany	1	pusher type fce	300		Engineering and delivery for skid system refurbishing	natural	27	Maerz-Gautschi
4427A000	2006	Georgsmarienhütte Germany	1	walking beam fce	160		Engineering and delivery for cooling system, skids.	forced	6 hot water	Techint-Intalimpianti
4377A000	2006	Wuhan PR China	1	walking beam fce	260		Engineering and delivery of special equipment for cooling system	forced	13	Geris Phoenix
4435A000	2005	MASTEEL Maanshan, PR China	3	walking beam fce	370		Engineering and delivery of special equipment for cooling system, skids	forced	16	Geris Phoenix
4441A000	2006	Stahlwerke Südwestfalen Germany	1	walking beam fce	160		Engineering and delivery for cooling system, skids.	forced	6 hot water	Techint-Intalimpianti
0471A000	2005	Salzgitter Flachstahl Germany	1	pusher type fce	300		Engineering and delivery for skid system refurbishing	natural	27	Maerz-Gautschi
4401A001	2005	APM Mexiko	1	pusher type fce	300		Engineering and delivery of a steam export system	natural	19	direct
7000A000	2006	BUDERUS Edelstahl Germany	1	boiler house	100		Engineering and equipment delivery of the boiler house	forced	37	direct
7000A001	2006	BUDERUS Edelstahl Germany	1	electric arc furnace	100		Engineering and equipment delivery of the waste heat recovery system	forced	37	direct
7000A002	2006	BUDERUS Edelstahl Germany	1	boiler house	100		Installation and commissioning of the boiler house	forced	37	direct



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4311A001	2006	Salzgitter Flachstahl Germany	1	walking beam fce	300		Replacement of fixed frames	forced	27	direct
4371A000	2007	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Exchange of fixframes	forced	23	direct
7000A005	2007	BUDERUS Edelstahl Germany	1	electric arc furnace	100	1	Delivery waste gas line	forced	37	direct
7000A006	2008	BUDERUS Edelstahl Germany	1	electric arc furnace	100		Installation waste gas line	forced	37	direct
4456A000	2007	Russland	1	walking beam fce	425		Swivel joint units	forced	30	Stein Heurtey
0335A000	2007	Korea Zink, Copper Plant South Korea	1	offgas cooler			Conversion to ECS	forced	40	Korea Zinc
0341A000	2007	Korea Zink, QSL Plant South Korea	1	offgas cooler			Panel fabrication including cladding	forced	48	Korea Zinc
4453A000	2007	Salzgitter Flachstahl Germany	1	walking beam fce	300		Engineering and equipment delivery for complete Ecs of WBF	forced	30	Techint- Intalimpianti
0466A000	2007	Rautaruukki Oy, Raahe Finland	1	pusher type fce	90		Engineering and delivery for skid system revamping	natural	20	Maerz Gautschi
4223A000	2008	SSAB Sweden	2	pusher type fce			Engineering, delivery and installation for skid system revamping	forced	40	direct
0343A000	2008	Salzgitter Flachstahl Germany	1	waste heat boiler			Waste heat recovery system behind reheating furnaces	natural	30	direct
4371A001	2008	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		New steam drum	forced	23	direct
4326A000	2008	Ilseburger Grobblech Germany	1	pusher type fce	110		Revamping skid system	natural	22	Andritz-Maerz



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
1831A000	2008	Oschatz GmbH	1	electric arc furnace			Engineering offgas line behind arc furnace	forced		direct
4263A000	2008	Peine Germany	1	walking beam fce	170		Revamping skid system	forced	25	direct
0487E002	2009	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system	forced	23	direct
0343A000	2009	Salzgitter Flachstahl Germany	1	waste heat boiler			Extension waste heat recovery system behind reheating furnaces	natural	30	direct
471E001	2010	Salzgitter Flachstahl Germany	1	pusher type fce	300		Revamping skid system	natural	30	direct
4398A000	2010	Stahlwerk Thüringen Germany	1	pusher type fce	180		Revamping skid system	natural	14	direct
4326A001	2010	Ilseburger Grobblech Germany	1	pusher type fce	110		Revamping skid system	natural	22	direct
4350A000	2011	Arcelor Mittal Eisenhüttenstadt Germany	1	walking beam fce	300		Revamping skid system	forced	23	direct
0487E003	2011	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system	forced	23	direct
4223A002	2011	SSAB Sweden	1	pusher type fce			Engineering and delivery of skid system revamping	forced	40	direct
7040K000	2011	Finnfjord Norwegen	3	submerged electric arc furnace			Engineering work for revamping	forced	75	direct
0351A000	2011	Finnfjord Norwegen	3	submerged electric arc furnace			Turn Key Revamping	forced	75	direct
4468A000	2011	Erdemir Turkey	1	pusher type fce	300		Engineering and delivery of skid system revamping	natural	19	direct



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4326A0001	2011	Ilseburger Grobblech Germany	1	pusher type fce	110		Revamping skid system	natural	22	Andritz-Maerz
0487E004	2011	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system	forced	23	direct
7000A007	2011	BUDERUS Edelstahl Germany	1	boiler house	100		Engineering, delivery and installation of second boiler house	forced	20	direct
4350A001	2012	Arcelor Mittal Eisenhüttenstadt Germany	1	walking beam fce	300		Revamping skid system	forced	23	direct
4223A003	2012	SSAB Sweden	1	pusher type fce			Engineering and delivery of skid system revamping	forced	40	direct
4105A006	2012	Salzgitter Flachstahl Germany	1	reheating fce	300		Revamping feed water supply system	forced	30	direct
4350A002	2013	Arcelor Mittal Eisenhüttenstadt Germany	1	walking beam fce	300		Revamping skid system	forced	23	direct
4398A001	2013	Stahlwerk Thüringen Germany	1	pusher type fce	180		Revamping skid system	natural	14	direct
4223A004	2013	SSAB Sweden	1	pusher type fce			Engineering and delivery of skid system revamping	forced	40	direct
4502A000	2013	Erdemir Turkey	1	pusher type fce	300		Engineering and delivery of skid system revamping	natural	19	direct
0362A000	2014	Ilseburger Grobblech Germany	1	pusher type fce	110		Engineering and delivery of waste heat boiler bundles	natural	22	direct
4350A003	2014	Arcelor Mittal Eisenhüttenstadt Germany	1	walking beam fce	300		Revamping skid system	forced	23	direct
4410A000	2014	Nauweiler Saarstahl Germany	1	walking beam fce	150		Revamping skid system	forced	20	direct



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4489A000	2014	HSP Hoesch Spundwand Germany	1	walking beam fce	130		Revamping skid system	forced	21	direct
0365A000	2014	HSP Hoesch Spundwand Germany	1	walking beam fce	130		Revamping evaporator	forced	21	direct
0487E005	2014	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system	forced	23	direct
0366A000	2014	Dillinger Hütte, Dillingen Germany	1	pusher type fce	250		Waste heat recovery downstream recuperator	forced	23	direct
0362A001	2015	Ilseburger Grobblech Germany	1	pusher type fce	110		Engineering and delivery of waste heat boiler bundles	natural	22	direct
0371A000	2015	Korea Zinc South Korea	1	zinc roaster			Engineering and delivery of waste heat boiler bundles	forced	66	direct
4223A005	2015	SSAB Sweden	1	pusher type fce			Engineering and delivery of skid system revamping	forced	40	direct
0487E006	2015	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system	forced	23	direct
4350E003	2015	Arcelor Mittal Eisenhüttenstadt Germany	1	walking beam fce	300		Exchanging superheater	forced	23	direct
4250A000	2016	Dillinger Hütte Germany	1	pushertype fce	250		Revamping skid system	natural	23	direct
4311E005	2016	Salzgitter Flachstahl Germany	1	walking beam fce	300		Revamping skid system	forced	27	direct
4519A000	2016	POSCO Pohang Korea	3	walking beam fce	200/240		Revamping from cold water to ECS	forced	16	direct
4520A000	2016	POSCO Gwangyang Korea	4	walking beam fce	250		Revamping from cold water to ECS	forced	16	direct



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Ref.-No.	Year	Steel Works	Amount	Furnace Type	Tonnage [t/h]	Amount	Cooled Components	Circulation type	Pressure [bar g]	Furnace Builder
4536E000	2017	Arcelor Mittal Gent Belgium	1	walking beam fce	300		Revamping skid system	forced	6	direct
4223E004	2017	SSAB Sweden	1	pusher type fce			Engineering and delivery of skid system revamping	forced	40	direct
4509A000	2017	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	300		Engineering and delivery of swivel joint station	forced	23	direct
4531K000	2017	Arcelor Mittal Burns Harbor USA	2	walking beam fce	450		Engineering skid system	forced	6	Andritz-Maerz
4250A001	2017	Dillinger Hütte Germany	1	pushertype fce	250		Revamping skid system	natural	23	direct
0487E009	2018	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system incl. water channels	forced	23	direct
4513E003	2018	Salzgitter Mannesmann Mülheim Germany	1	walking beam fce	170		Revamping skid system incl. water channels	forced	6	direct
4536E001	2018	Arcelor Mittal Gent Belgium	1	walking beam fce	300		Revamping skid system	forced	6	direct
4398A002	2018	Stahlwerk Thüringen Germany	1	pusher type fce	180		Revamping skid system	natural	14	direct
4301A000	2019	AG der Dillinger Hüttenwerke, plant Dillingen Germany	1	pusher type fce	250		Skid reinforcement	natural	18	direct
4411M000	2019	Neunkirchen Saarstahl Germany	1	walking beam fce	150		Skid reinforcement	forced	10 hot water	Techint- Intalimpianti
4513E004	2019	Salzgitter Mannesmann Mülheim Germany	1	walking beam fce	170		Revamping skid system incl. water channels	forced	6	direct
0487E011	2019	Thyssen Krupp Steel Bochum Germany	1	walking beam fce	265		Revamping skid system incl. water channels	forced	23	direct