

Beispiel: Elektrostahlwerk

DC-ELECTRIC ARC FURNACE	1
START UP (LAST MODERNIZING) MANUFACTURER HEAT SIZE SHELL DIA. / NOM. APP. TRANSF. POWER	1995 (2001) VAI, AT 120 T 6700 MM / 120 MVA

LADLE FURNACE	1
START UP (LAST MODERNIZING) MANUFACTURER TYPE HEAT SIZE	1995 () VAI, AT SINGLE-LADLE FURNACE 120 T

CONTINUOUS BLOOM CASTER	1
START UP (LAST MODERNIZING) MANUFACTURER NB. OF STRANDS / MACHINE TYPE BLOOM SIZE TH * W OR DIAMETER IN MM	1995 (1997) VAI, AT 4 / CURVE/CONT-STR 170-300 * 243-391

HEAVY SECTION MILL	1
START UP (LAST MODERNIZING) MANUFACTURER NB. OF STANDS / NB. OF UNIVERSALST. SECTIONS SIZE: DEPTH OF WEB MIN-MAX	1985 (2010) SMS, DE 6 / 3 130 - 550 MM

BOS Shops Beispiel: Konverter-Auswertung

Company	Location/Works	Start up converter				Last mod.	Nb. Conv.	Heat size t	Blowing process	Converter gas recovery
GERMANY										
THYSSENKRUPP STEEL	DUISBURG-BRUCKHAUSEN	1969	1969		2014	2	380	LD-TBM	YES	
THYSSENKRUPP STEEL	DUISBURG-BEECKERWERTH	1962	1962	1971	2004	3	265	LD-TBM	YES	
SAARSTAHL AG	VÖLKLINGEN	1980	1980	1982	2008	3	170	LD+B.-STIRR.	YES	
AG DER DILLINGER	DILLINGEN	1969	1968		2010	2	185	LD+B.-STIRR.	NO	
SALZGITTER FLACHSTAHL	SALZGITTER	1969	1976	1968	2015	3	220	LD+B.-STIRR.	YES	
ARCELORMITTAL BREMEN	BREMEN	1968	1968		2011	2	290	LD+B.-STIRR.	YES	
HW. KRUPP MANNESMANN	DUISBURG-HUCKINGEN	1966	1966		1983	2	275	LD+B.-STIRR.	NO	
ARCELORMITTAL	EISENHÜTTENSTADT	1984	1984		2006	2	242	LD+B.-STIRR.	YES	
ARCELORMITTAL RUHRORT	DUISBURG		1966	1969	1993	2	150	LD-TBM	NO	
FRANCE										
ARCELORMITTAL	DUNKERQUE	1972	1972	1972	2010	3	270	LD-LBE	NO	
ARCELORMITTAL	FOS-SUR-MER	1974	1974		2000	2	335	LD-LBE	YES	
BELGIUM										
ARCELORMITTAL GENT	GHENT	1967	1967		2013	2	300	LD-TBM	YES	
NETHERLANDS										
TATA STEEL STRIP PROD.	IJMUIDEN	1968	1968	1976	2014	3	330	LD+B.-STIRR.	OG-SYSTEM	
UNITED KINGDOM										
TATA STEEL STRIP PROD. UK	PORT TALBOT	1969	1969		2012	2	330	LD+B.-STIRR.	NO	
TATA STEEL CONSTRUCTION	SCUNTHORPE		1973	1973	1993	2	300	LD+B.-STIRR.	OG-SYSTEM	
ITALY										
ILVA SpA	TARANTO	1964	1964	1969	1998	3	300	LD+B.-STIRR.	OG-SYSTEM	
ILVA SpA	TARANTO	1973	1973	1974	2000	3	350	LD+B.-STIRR.	OG-SYSTEM	
SPAIN										
ARCELORMITTAL ASTURIAS	AVILES	1988	1988		2006	2	285	LD-LBE	OG-SYSTEM	
ARCELORMITTAL ASTURIAS	GIJON	1971	1971		2011	2	118	LD+B.-STIRR.	NO	
AUSTRIA										
VOESTALPINE STAHL	LINZ	1975	1976	1990	2009	3	177	LD+B.-STIRR.	YES	
VA STAHL DONAWITZ GMBH	DONAWITZ	2000	1999			2	67	LD+B.-STIRR.	YES	
SWEDEN										
SSAB EUROPE	LULEA	1972	1974		2015	2	130	LD-LBE	YES	
SSAB EUROPE	ÖXELÖSUND	1977			1995	1	225	LD-LBE	NO	
FINLAND										
SSAB EUROPE	RAAHE	1967	1967	1975	2015	3	125	LD+B.-STIRR.	NO	
TURKEY										
EREGLI DEMIR CELIK	EREGLI	1995	1994	1993	2006	3	120	LD+B.-STIRR.	YES	
ISKENDERUN DEMIR CELIK	ISKENDERUN	2006	2008	2008		3	200	LD+B.-STIRR.	YES	
KARABÜK DEMIR CELIK	KARABÜK	1997	1997	2013	2015	3	120	LD+B.-STIRR.	YES	

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BOS Shops

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							t			
POLAND										
ARCELORMITTAL POLAND	KRAKOW	1966	1966	1971	1998	3	160	LD-TBM	YES	
ARCELORMITTAL POLAND	DABROWA GORNICZA	1976	1978	1978	2014	3	315	LD-TBM	YES	
CZECH REPUBLIC										
TRINECKE ZELEZARNY	TRINEC	1983	1984		2005	2	180	LD+B.-STIRR.	YES	
SLOVAKIA										
U.S. STEEL KOSICE S.R.O.	KOSICE	1966		1980	2005	2	180	LD+B.-STIRR.	YES	
U.S. STEEL KOSICE S.R.O.	KOSICE	1974	1974		2007	2	172	LD+B.-STIRR.	YES	
ROMANIA										
ARCELORMITTAL GALATI SA	GALATI	1968	1968	1968	2009	3	170	LD+B.-STIRR.	YES	
HUNGARIA										
ISD DUNAFERR ZRT	DUNAUJVAROS	1981	1982		2009	2	135	LD+B.-STIRR.	YES	
BOSNIA HERZEGOVIA										
ARCELORMITTAL ZENICA	ZENICA	1978	1978			2	115	LD		
SERBIA, MONTENEGRO										
ZELEZARA SMEDEREVO	SMEDEREVO, SERBIA	1975	1975	1982	2001	3	100	LD+B.-STIRR.	NO	
RUSSIA										
CHELYABINSK M.Z. (MECHEL)	CHELYABINSK	1969	1969	1969	2011	3	160	LD+B.-STIRR.		
SEVERSTAL	CHEROPOVETS	1980	1981	1989	2015	3	350	LD+B.-STIRR.	NO	
NOVOLIPETSK STEEL (NLMK)	LIPETZK	1966	1967	1967	2010	3	180	LD+B.-STIRR.		
NOVOLIPETSK STEEL (NLMK)	LIPETZK	1974	1974	2011		3	330	LD+B.-STIRR.		
MAGNITOGORSK M.K.	MAGNITOGORSK	1990	1990	1999	2012	4	370	LD+B.-STIRR.		
EVRAZ NISHNIY TAGIL M.Z.	NISHNIY TAGIL,	1963	1967	1967	2010	4	160	LD+B.-STIRR.	YES	
TULACHERMET	TULA	2016				1	160	LD+B.-STIRR.	YES	
EVRAZ ZSMK	NOVOKUZNETSK	1969	1969	1969	2013	3	140	LD		
EVRAZ ZSMK	NOVOKUZNETSK	1974	1974			2	350	LD	NO	
UKRAINE										
AZOVSTAL (METINVEST)	MARIUPOL, DONETSK	1977	1977		2007	2	350	LD+B.-STIRR.	NO	
DNEPROVSKIY DZERZHINSKIY	DNEPRODZERZHINSK	1982	1982		2006	2	250	LD		
EVRAZ DMZ PETROVSKOGO	DNEPROPETROVSK	1967	1967	1968		3	50	LD	NO	
YENAKIEVE M.Z.	YENAKIEVO, DONETSK	1968	1968	1969	2007	3	160	LD		
ALCHEVSKY M.K. (IUD)	ALCHEVSK, LUGANSK	2008	2008			2	300	LD+B.-STIRR.	YES	
ARCELORMITTAL KRYVIY RIH	KRYVIY RIH	1965	1965	1971	2012	6	160	LD+B.-STIRR.	NO	
ILYICH M.Z. (METINVEST)	MARIUPOL, DONETSK	1964	1964	1994	2014	3	160	LD		
KAZAKHSTAN										
ARCELORMITTAL TEMIRTAU	TEMIRTAU	1970	1970	1972		3	300	LD		
EGYPT										
EGYPTIAN IRON & STEEL	HELWAN	1974	1976	1979	1995	3	90	LD	YES	

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BOS Shops

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ALGERIA										
ARCELORMITTAL ANNABA	EL HADJAR, ANNABA	1972	1972	1972			3	60	LD	
ARCELORMITTAL ANNABA	EL HADJAR, ANNABA	1981	1981	1982			3	90	LD	OG-SYSTEM
SOUTH AFRICA										
EVRAZ HIGHVELD ST. &	WITBANK	1968	1977	1978			3	70	LD	
ARCELORMITTAL SOUTH	VANDERBIJLPARK	1974	1975	1975	1998		3	165	LD+B.-STIRR.	NO
ARCELORMITTAL SOUTH	NEWCASTLE	1974	1974	1975	1997		3	165	LD-CB	
ZIMBABWE										
ESSAR STEEL ZIMBABWE	REDCLIFF	1975	1975		1999		2	60	LD	
IRAN										
ESFAHAN STEEL CO	ESFAHAN	1972	1976	1983	1994		3	130	LD+B.-STIRR.	NO
INDIA										
SAIL-ST.AUTHORITY INDIA	BHILAI, CHHATTISGARH	1981	1981	1981	2008		3	130	LD	NO
SAIL-ST.AUTHORITY INDIA	BHILAI, CHHATTISGARH	2015	2015	2015			3	180	LD+B.-STIRR.	YES
SAIL-ST.AUTHORITY INDIA	DURGAPUR, WB	1994	1994	1994			3	110	LD+B.-STIRR.	NO
SAIL-ST.AUTHORITY INDIA	ROURKELA, ODISHA	1966	1967				2	65	LD	NO
SAIL-ST.AUTHORITY INDIA	ROURKELA, ODISHA	1996	1996	2014	2013		3	150	LD+B.-STIRR.	OG-SYSTEM
SAIL-ST.AUTHORITY INDIA	BURNPUR (IISCO), WB	2015	2015				2	150	LD+B.-STIRR.	YES
SAIL-ST.AUTHORITY INDIA	BOKARO, JHARKHAND	1973	1976	1978			5	130	LD	NO
SAIL-ST.AUTHORITY INDIA	BOKARO, JHARKHAND	1988	1988		2010		2	300	LD+B.-STIRR.	YES
VISVESVARAYA I&S (SAIL)	BHADRAVATI, KARNATAKA	1965	1965				2	25	OBM	NO
RASHTRIYA ISPAT NIGAM	VISAKHAPATNAM,	1990	1991	1992	2014		3	130	LD	YES
RASHTRIYA ISPAT NIGAM	VISAKHAPATNAM,	2013	2014	2015			3	150	LD+B.-STIRR.	YES
TATA STEEL LTD	JAMSHEDPUR, JHARKHAND	1982	1982		2002		2	140	LD+B.-STIRR.	OG-SYSTEM
TATA STEEL LTD	JAMSHEDPUR, JHARKHAND	1993	1994	1999	2016		3	170	LD+B.-STIRR.	OG-SYSTEM
TATA STEEL LTD	JAMSHEDPUR, JHARKHAND	2012	2012				2	170	LD+B.-STIRR.	YES
TATA STEEL LTD	KALINGANAGAR, ODISHA	2016	2016				2	310	LD+B.-STIRR.	YES
MUKAND LTD	HOSPET, KARNATAKA	1997					2	40	EOF	YES
JSW STEEL LTD	TORANAGALLU,	1999	1999	2006	2005		3	140	LD+B.-STIRR.	YES
JSW STEEL LTD	TORANAGALLU,	2009	2010	2010			4	175	LD+B.-STIRR.	YES
JINDAL STEEL & POWER	ANGUL, ODISHA	2015	2015				2	250	LD+B.-STIRR.	YES
JINDAL STEEL & POWER	PATRATU, JHARKHAND	2016	2016				2	200	LD+B.-STIRR.	YES
BHUSHAN STEEL LTD	MERAMANDALI, ODISHA	2015	2015				2	180	LD+B.-STIRR.	YES
GERDAU STEELS LTD	TADIPATRI, ANDHRA P.	2014	2014				2	25	LD	NO
JSW SOUTHERN I&S CO LTD	SALEM, TAMIL NADU	1997					1	30	EOF	YES
JSW SOUTHERN I&S CO LTD	SALEM, TAMIL NADU	2007					1	65	EOF	YES
NEELACHAL ISPAT NIGAM	DUBURI, ODISHA	2013					1	110	LD+B.-STIRR.	YES
NMDC LTD	NAGARNAR,	2016	2016				2	175	LD+B.-STIRR.	YES
INDONESIA										
PT KRAKATAU-POSCO	CILEGON, WEST JAVA	2014					1	300	LD+B.-STIRR.	YES

BOS Shops

Company	Location/Works	Start up converter		Last mod.	Nb. Conv.	Heat size	Blowing process	Converter gas recovery
						t		
PAKISTAN								
PAKISTAN STEEL MILLS	BIN QASIM, KARACHI	1982	1982		2	130	LD	
VIETNAM								
THAI NGUYEN I&ST (VSC)	THAI NGUYEN-CITY	2009			1	50	LD+B.-STIRR.	
FORMOSA HA TINH STEEL	VUNG-ANG, HA TINH	2016	2016	2016	3	300	LD+B.-STIRR.	OG-SYSTEM
VIETNAM LAO CAI STEEL	LAO CAI PROV.	2014			1	50	LD	
MALAYSIA								
EASTERN STEEL SDN BHD	KEMAMAN,TERENGGANU	2016						
JAPAN								
JFE STEEL	EAST WORKS (CHIBA)	1977	1977	1994	2	290	Q-BOP	OG-SYSTEM
JFE STEEL	EAST WORKS (CHIBA)	1994	1994		2	185	LD+K-OBM	OG-SYSTEM
JFE STEEL	WEST WORKS-KURASHIKI	1967	1967	1969 1979	3	180	LD+B.-STIRR.	OG-SYSTEM
JFE STEEL	WEST WORKS-KURASHIKI	1970	1970	1973 1984	3	250	LD-CB	OG-SYSTEM
KOBE STEEL	KOBE, HYOGO		1961	1966 1983	2	90	LD-OTB	OG-SYSTEM
KOBE STEEL	KAKOGAWA, HYOGO	1970	1970	1972 1988	3	250	LD-OTB	OG-SYSTEM
JFE STEEL	WEST WORKS (FUKUYAMA)	1969	1969	1971 1992	3	250	LD-CB	OG-SYSTEM
JFE STEEL	WEST WORKS (FUKUYAMA)	1970	1970	2015 2015	3	300	LD+B.-STIRR.	OG-SYSTEM
JFE STEEL	EAST WORKS (KEIHIN)		1976	1979 1998	2	250	LD-CB	OG-SYSTEM
NSSMC	YAWATA-TOBATA	1970	1970	1984	2	170	LD-OB	OG-SYSTEM
NSSMC	YAWATA-TOBATA	1979	1979	1982	2	350	LD-OB	OG-SYSTEM
NSSMC	MURORAN, HOKKAIDO	1977	1977	1994	2	270	LD-CB	OG-SYSTEM
NSSMC	HIROHATA, HYOGO Pref.	1965	1968	1973 1993	3	100	LD	OG-SYSTEM
NSSMC	NAGOYA, AICHI Pref.	1989	1989		2	160	LD-ORP	OG-SYSTEM
NSSMC	NAGOYA, AICHI Pref.	1969	1969	2007	3	270	LD-OB	OG-SYSTEM
NSSMC	KIMITSU, CHIBA Pref.	1968	1968	1969	3	220	LD-CB	OG-SYSTEM
NSSMC	KIMITSU, CHIBA Pref.	1971	1971		3	300	LD-OB	OG-SYSTEM
NSSMC	OITA, OITA Pref.	1972	1972	1976	3	370	LD-CB	OG-SYSTEM
NISSHIN STEEL CO	KURE, HIROSHIMA Pref.	1965	1966	1991	2	90	LD-CB	OG-SYSTEM
NISSHIN STEEL CO	KURE, HIROSHIMA Pref.	1980			1	185	LD-OB	OG-SYSTEM
NISSHIN STEEL CO	SHUNAN, YAMAGUCHI Pref.	1969	1969	1991	2	80	LD+B.-STIRR.	OG-SYSTEM
NSSMC	WAKAYAMA, WAKAYAMA	1999	1999	2002	3	210	LD-STB	OG-SYSTEM
NSSMC	KASHIMA, IBARAKI Pref.	1971	1971	1973 1992	3	250	LD-STB	OG-SYSTEM
NSSMC	KASHIMA, IBARAKI Pref.	1974	1974		2	250	LD-STB	OG-SYSTEM
NSSMC	KOKURA, FUKUOKA Pref.	1970	1974	1976 2010	3	70	LD+B.-STIRR.	OG-SYSTEM
SOUTH KOREA								
POSCO	POHANG	1976		2014	3	105	LD-KG	OG-SYSTEM
POSCO	POHANG	1978	1978	1981 2007	3	300	LD-CB	OG-SYSTEM
POSCO	POHANG	2011	2011		2	318	LD-CB	OG-SYSTEM
POSCO	GWANGYANG	1987	1987	1988	3	265	LD-CB	LT-SYSTEM
POSCO	GWANGYANG	1990	1990	1992	4	265	LD-CB	OG-SYSTEM
POSCO	GWANGYANG	2010			1	250	LD-CB	OG-SYSTEM
HYUNDAI STEEL	DANGJIN C	2010	2010	2013	5	300	LD+B.-STIRR.	OG-SYSTEM

VDEh database PLANTFACTS

BOS Shops

Company	Location/Works	Start up converter				Last mod.	Nb. Conv.	Heat size	Blowing process	Converter gas recovery
TAIWAN										
CHINA STEEL CORP	KAOHSIUNG	1977	1977	1982	1982	3	160	LD+B.-STIRR.	OG-SYSTEM	
CHINA STEEL CORP	KAOHSIUNG	1988	1988	1997		3	260	LD+B.-STIRR.	OG-SYSTEM	
DRAGON STEEL CORP (CSC)	TAICHUNG	2010	2010	2013		3	210	LD+B.-STIRR.	YES	
AUSTRALIA										
BLUESCOPE STEEL	PORT KEMBLA, NSW	1972	1972		2011	2	280	LD-OTB	OG-SYSTEM	
ONESTEEL	WHYALLA, SA	1965	1981		1991	2	130	LD-LBE		
NEW ZEALAND										
NEW ZEALAND STEEL (BHP)	GLENBROOK	1986				1	70	K-OBM-S	OG-SYSTEM	
UNITED STATES										
AK STEEL	ASHLAND, KY	1963	1963		1988	2	175	LD+B.-STIRR.	NO	
AK STEEL	MIDDLETOWN, OH	1969	1969		1989	2	205	LD+B.-STIRR.		
ATI ALLEGHENY LUDLUM	NATRONA, PA					2	72	LD	NO	
ARCELORMITTAL USA	BURNS HARBOR, IN	1969	1969	1978	1994	3	272	LD		
U.S. STEEL CORP.	E. THOMSON-BRADDOCK,	1972	1972		2000	2	227	LD+B.-STIRR.		
U.S. STEEL CORP.	GARY, IN	1965	1965	1965	1985	3	210	LD+B.-STIRR.		
U.S. STEEL CORP.	GARY, IN	1973	1973	1973	1999	3	204	Q-BOP	NO	
ARCELORMITTAL USA	IND. HARBOR EAST-EAST	1974	1974			2	191	LD+B.-STIRR.	OG-SYSTEM	
ARCELORMITTAL USA	IND. HARBOR EAST-EAST	1966	1966		1987	2	240	LD-CB		
ARCELORMITTAL USA	RIVERDALE, IL	1959	1959		2006	2	82	LD		
ARCELORMITTAL USA	CLEVELAND, OH	1966	1966			2	250	LD-KG		
ARCELORMITTAL USA	IND. HARBOR WEST-EAST	1970	1970			2	254	LD-CB		
U.S. STEEL CORP.	GR.LAKES ECORSE, MI	1970	1970			2	231	LD-LBE		
U.S. STEEL CORP.	GRANITE CITY, IL	1967	1967			2	218	LD-LBE		
AK STEEL DEARBORN	DEARBORN, MI	1964	1964		1990	2	235	LD+B.-STIRR.	NO	
CANADA										
ESSAR STEEL ALGOMA INC	SAULT-STE.MARIE, ONT	1973	1973		1995	2	240	LD-LBE	YES	
ARCELORMITTAL DOFASCO	HAMILTON, ONT	1978			2003	1	267	K-OBM	NO	
RIO TINTO, FER ET TITANE	SOREL-TRACY, QC	1986				1	120	K-OBM	NO	
U.S. STEEL CANADA INC	NANTICOKE, ONT	1980	1980			2	247	LD+B.-STIRR.	OG-SYSTEM	
MEXICO										
ALTOS HORNOS DE MEXICO	MONCLOVA-I, COAHUILA	1971	1971	1974	2013	3	60	LD-CB	OG-SYSTEM	
ALTOS HORNOS DE MEXICO	MONCLOVA-II, COAHUILA	1976	1983		1994	2	150	LD-CB	OG-SYSTEM	
ARCELORMITTAL LAZ.	LAZARO-CARDENAS,	1976	1976		1989	2	120	LD	YES	
ARGENTINIA										
ACEROS ZAPLA SA	PALPALA, JUJUY	1985	1985			2	25	OBM		
TERNIUM SIDERAR	RAMALLO-SAN NICOLAS,	1973	1973	1978		3	200	KMS		
BRAZIL										
GERDAU ACOMINAS SA	OURO BRANCO, MG	1986	1986		2007	2	230	LD+B.-STIRR.	YES	
THYSSENKRUPP CSA	SANTA CRUZ, RJ	2010	2010			2	330	LD+B.-STIRR.	YES	

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ARCELORMITTAL ACOS	MONLEVADE, MG	1985	1985		2013	2	130	LD-LBE	YES	
GERDAU BARAO DE COCAIS	BARAO DE COCAIS, MG	1979				1	30	LD		
USIMINAS	CUBATAO, SP	1987	1987	2001	2009	3	170	LD+B.-STIRR.	OG-SYSTEM	
V & M DO BRASIL SA	BELO HORIZONTE, MG	1978				1	80	LD	YES	
CIA.SID. NACIONAL	VOLTA REDONDA, RJ	1977	1977	1982	2011	3	230	LD+B.-STIRR.	OG-SYSTEM	
GERDAU DIVINOPOLIS	DIVINOPOLIS, MG	1982	1988		1995	2	43,5	EOF	YES	
ARCELORMITTAL TUBARAO	VITORIA, ES	1983	1983	2007	2007	3	315	LD+B.-STIRR.	OG-SYSTEM	
USIMINAS	IPATINGA, MG	1963	1963	1973		3	85	LD-KG	OG-SYSTEM	
USIMINAS	IPATINGA, MG	1975	1975		2001	2	180	LD-KG	OG-SYSTEM	
GUSA NORDESTE SA	ACAILANDIA, MARANHAO	2014					60	EOF		
CIA. SID. DO PECÉM (CSP)	PORTUARIO DO PECÉM, CE	2016				2	300	LD+B.-STIRR.	OG-SYSTEM	
CHILE										
CIA. SID.HUACHIPATO SA	TALCAHUANO	1975	1975		2007	2	110	LD+B.-STIRR.	YES	
PARAGUAY										
ACERO DEL PARAGUAY	ACEPAR, VILLA-HAYES	1986	1986			2	15	LD		
PERU										
SIDERPERU	CHIMBOTE	1966	1966			2	30	LD-LBE		
COLOMBIA										
ACERIAS PAZ DEL RIO SA	BELENCITO, BOYACA	1980	1980		2011	2	37	LWS	NO	