

BSE REFERENCE LIST FOR ENERGY INPUT

Steelplant	Country	Place	EAF Type	Transformer	Start-Up
BREITENFELD EDELSTAHL AG ELECTRODE ARM	AUSTRIA	MITTERDORF IM MÜRZTAL	65 t AC	56 MVA	2018
TREIBACHER INDUSTRIE AG LM LM	AUSTRIA	ALTHOFEN	15 t AC	7 MVA	2008 2015
APERAM GENK VLB	BELGIUM	GENK	100 t AC	90 MVA	2011
DUFERCO LM	BELGIUM	LA LOUVIÈRE	85 t DC	70 MVA	1997
ELLWOOD STEEL BELGIUM LM	BELGIUM	SERAING	85 t AC	85 MVA	1989
BELGO MINEIRA (PIRACICABA) LM	BRAZIL	PIRACICABA	60 t AC	45 MVA	1993
GERDAU ACONORTE - RECIFE LM	BRAZIL	RECIFE	30 t AC	25 MVA	1995
GERDAU ACOS ESPECIAIS PIRATINI LM.2	BRAZIL	CHARQUEADAS	120 t AC	85 MVA	2006
GERDAU ACOS LONGOS S.A. LM.2	BRAZIL	SAPUCAIA DO SUL - RS	24 t AC	18 MVA	2008
GERDAU COSIGUA BURNERS BURNERS 2 x LM LM	BRAZIL	RIO DE JANEIRO	120 t AC	80 MVA	1993 1999 1990 1999
GERDAU GUAIRA LM	BRAZIL	ARAUCÁRIA	70 t AC	40 MVA	1990
GERDAU NOVA IGUACU LM	BRAZIL	NOVA IGUACU	60 t AC	40 MVA	1990
GERDAU RIOGRANDENSE LM	BRAZIL	SAPUCAIA DO SUL	24 t AC	26 MVA	1998
GERDAU RIOGRANDENSE LM.2 LM.2	BRAZIL	SAPUCAIA DO SUL	40 t AC	26 MVA	2010 2012

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GERDAU S/A LM.2	BRAZIL	RIO DE JANEIRO	24 t AC	25 MVA	2009
GERDAU SAO PAULO LM.2	BRAZIL	SAO PAULO	100 t AC	75 MVA	2004
GERDAU USIBA LM	BRAZIL	SIMOES FILHO	95 t AC	76 MVA	1993
SIDERURGICA BARRA MANSA S.A. LM.2	BRAZIL	BARRA MANSA	60 t AC	36 MVA	2007
SINOBRAS ELECTRODE ARM	BRAZIL	MARABA	40 t AC	40 MVA	2007
SINOBRAS LM	BRAZIL	MARABA	40 t AC	40 MVA	2004
SINOBRAS SOLID MAT INJECTOR VLB VLB	BRAZIL	MARABA	40 t AC	41 MVA	2007 2007 2013
VILLARES ANHANGUERA BURNERS	BRAZIL	MOGI DAS CRUZES	80 t AC	38 MVA	1997
GERDAU AMERISTEEL CAMBRIDGE LM	CANADA	CAMBRIDGE	40 t AC	30 MVA	1993
GERDAU AMERISTEEL WHITBY BURNERS ELECTRODE ARM LM	CANADA	WHITBY	138 t AC	94 MVA	1996 1995 1996
IVACO ELECTRODE ARM	CANADA	L'ORIGINAL	90 t AC	65 MVA	1995
DAYE SPECIAL SSTEEL CO. LTD. LM.2	CHINA	HUANGSHI CITY	70 t DC	60 MVA	2007
GUANGZHOU IRON AND STEEL LM	CHINA	GUANGZHOU	40 t AC	48 MVA	2000
JIUQUAN IRON AND STEEL (GROUP) LM	CHINA	JIAYUGUAN CITY	90 t AC	75 MVA	2005
SHANDONG SHIHENG SPECIAL STEEL VLB	CHINA	SHANDONG	70 t AC	50 MVA	2006
SHANGHAI N°1 LM LM	CHINA	BAOSHAN	90 t AC	70 MVA	2003 2004

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SHAOXING STEELPLANT LM	CHINA	SHAO XING	70 t AC	50 MVA	1997
TIANJIN PIPE CORPORATION ELECTRODE ARM	CHINA	TIANJIN	165 t AC	100 MVA	2010
TPCO - TIANJIN PIPE CORPORATION LM	CHINA	TIANJIN	150 t AC	100 MVA	1997
WUXI XIXING LM	CHINA	QIANQIAO WUXI	34 t AC	20 MVA	1996
XINJIANG BAYI IRON & STEEL CORP. LTD. LM	CHINA	WULUMUQI	70 t DC	60 MVA	1999
GRUPO DIACO / GERDAU LM.2 VLB	COLOMBIA	SANTA FE DE BOGOTA	48 t AC	42 MVA	2001 2001
SIDELPA - SIDERURGICA DEL PACIFICO, S. A. LM	COLOMBIA	CALI	30 t AC	18 MVA	1999
CMC SISAK D.O.O. LM.2 SOLID MAT INJECTOR VLB	CROATIA	SISAK	60 t AC	60 MVA	2010 2010 2010
ARCELORMITTAL OSTRAVA VLI	CZECH REPUBLIC	OSTRAVA-KUNCICE	0 t	0 MVA	2014
AL-EZZ (EX ANSDK) 4 x ELECTRODE ARM ELECTRODE ARM 4 x LM	EGYPT	ALEXANDRIA	80 t AC	46 MVA	1996 1998 1994
OUTOKUMPU ELECTRODE ARM	FINLAND	TORNIO	86 t AC	84 MVA	1994
OUTOKUMPU STAINLESS OY SOLID MAT INJECTOR VLB	FINLAND	TORNIO	135 t AC	140 MVA	2014 2014
OVAKO BAR OY AB SOLID MAT INJECTOR VLB	FINLAND	IMATRA	80 t AC	50 MVA	2012 2012
ACIERS D'ALLEVARD LM	FRANCE	GONCELIN	40 t AC	30 MVA	1992
ALPA (RIVA GROUP) LM	FRANCE	GARGENVILLE	70 t AC	50 MVA	1987
ARCELORMITTAL CHATEAUNEUF	FRANCE	RIVE DE GIER CEDEX	95 t AC	32 MVA	

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LM					2008
ASCO INDUSTRIES HAGONDANGE LM	FRANCE	HAGONDANGE	125 t AC	90 MVA	2014
ASCOMETAL HAGONDANGE LM	FRANCE	HAGONDANGE	100 t AC	90 MVA	1990
ASCOMETAL USINE DE FOS LM	FRANCE	FOS-SUR-MER CEDEX	120 t AC	90 MVA	1989
ASCOMETAL USINE DE FOS LM	FRANCE	FOS-SUR-MER CEDEX	135 t AC	100 MVA	2008
CREUSOT LOIRE INDUSTRIE - CLI - CREUSOT WORKS LM	FRANCE	LE CREUSOT	100 t AC	30 MVA	1998
FORCAST THIONVILLE LM	FRANCE	THIONVILLE	65 t	50 MVA	1989
IMPHY ALLOYS LM	FRANCE	IMPHY	35 t AC	25 MVA	2007
ISPAT UNIMETAL GANDRANGE 2 x BURNERS 2 x LM	FRANCE	AMNÉVILLE	170 t DC	150 MVA	1994 1994
LME - SME - LAMINES MARCHANDS EUROPEENS LM	FRANCE	TRITH SAINT LÉGER	85 t DC	72 MVA	1998
MANNESMANN - VALLOUREC INDUSTRIES 2 x ELECTRODE ARM LM	FRANCE	SAINT-SAULVE	80 t AC	78 MVA	1990 1990
SAM MONTEREAU LM 2 x LM	FRANCE	MONTEREAU	80 t AC	60 MVA	1991 1993
SAM NEUVES MAISONS / UNM BURNERS LM	FRANCE	NEUVES-MAISONS	150 t AC	90 MVA	1992 1992
UGINE SAVOIE LM	FRANCE	UGINE	41 t AC	19 MVA	1999
BADISCHE STAHLWERKE GMBH 2 x BURNERS 2 x ELECTRODE ARM	GERMANY	KEHL	80 t AC	57 MVA	1986 1989
BADISCHE STAHLWERKE GMBH ELECTRODE ARM ELECTRODE ARM ELECTRODE ARM ELECTRODE ARM	GERMANY	KEHL	100 t AC	30 MVA	2011 2011 2013 2013

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ELECTRODE ARM					2016
BADISCHE STAHLWERKE GMBH 2 x LM 2 x LM 2 x LM	GERMANY	KEHL	80 t AC	57 MVA	1985 1993 1996
BADISCHE STAHLWERKE GMBH 2 x LM	GERMANY	KEHL	80 t AC	75 MVA	2003
BADISCHE STAHLWERKE GMBH 2 x VLB	GERMANY	KEHL	90 t AC	90 MVA	1999
BGH EDELSTAHL FREITAL GMBH 2 x ELECTRODE ARM	GERMANY	FREITAL	30 t AC	30 MVA	1997
BGH EDELSTAHL SIEGEN GMBH ELECTRODE ARM	GERMANY	SIEGEN	40 t AC	20 MVA	2017
DEUTSCHE EDELSTAHLWERKE GMBH LM LM	GERMANY	SIEGEN-GEISWEID	135 t AC	70 MVA	1992 1999
DEUTSCHE EDELSTAHLWERKE GMBH LM LM.2	GERMANY	SIEGEN-GEISWEID	135 t AC	75 MVA	2001 2007
EDELSTAHLWERKE BUDERUS AG BURNERS	GERMANY	WETZLAR	90 t AC	63 MVA	1992
EDELSTAHLWERKE BUDERUS AG VLB	GERMANY	WETZLAR	90 t AC	40 MVA	2002
GRÖDITZER STAHLWERKE GMBH LM	GERMANY	GRÖDITZ	80 t AC	57 MVA	1993
LECHSTAHLWERKE GMBH BURNERS LM	GERMANY	MEITINGEN	75 t AC	50 MVA	1992 1998
PEINER TRÄGER GMBH BURNERS ELECTRODE ARM LM	GERMANY	PEINE	100 t DC	70 MVA	1995 1995 1995
SALZGITTER FLACHSTAHL GMBH LM.2	GERMANY	SALZGITTER	125 t AC	170 MVA	2011
SCHMIEDEWERKE GRÖDITZ GMBH LM.2	GERMANY	GROEDITZ	30 t AC	16 MVA	2017
SMS DEMAG AG (PEINE II) LM.2	GERMANY	DUESSELDORF	150 t AC	140 MVA	2009

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SMS SIEMAG AG (FUXIN SPECIAL STEEL / P.R. CHINA) LM	GERMANY	DÜSSELDORF	160 t AC	0 MVA	2011
STAHLWERK BOUS GMBH ELECTRODE ARM LM	GERMANY	BOUS / SAAR	70 t AC	45 MVA	1992 1997
THYSSEN KRUPP VDM UNNA LM	GERMANY	UNNA	30 t AC	90 MVA	1996
THYSSENKRUPP NIROSTA GMBH VLB	GERMANY	BOCHUM	165 t AC	135 MVA	2013
HELLENIC HALYVOURGIA SA LM.2	GREECE	KIFFISSIA-ATHENS	65 t AC	50 MVA	2007
SIDENOR THESSALONIKI LM	GREECE	THESSALONIKI	60 t AC	50 MVA	1992
SOVEL LM	GREECE	ALMYROS, MAGNISSIA	130 t AC	120 MVA	2016
ADHUNIK METALIKS LTD. ELECTRODE ARM SOLID MAT INJECTOR VLB	INDIA	KOLKATA	40 t AC	32 MVA	2010 2010 2010
APOLLO INTERNATIONAL LTD LM 2 x VLB	INDIA	HARYANA	36 t AC	21 MVA	2010 2011
BHUSHAN STEEL & STRIPS 2 x LM	INDIA	ORISSA	180 t AC	140 MVA	2007
EASTERN METEC PRIVATE LTD (INDIAN RAILWAY COMPANY) 3 x LM	INDIA	KOLKATA	22 t AC	0 MVA	2010
ESSAR STEEL 3 x LM	INDIA	HAJIRA	150 t DC	120 MVA	1994
ISMT LTD. LM	INDIA	PUNE	40 t AC	36 MVA	2008
JINDAL STAINLESS LM	INDIA	DEBURI / ORISSA	40 t AC	28 MVA	201?
JINDAL STEEL AND POWER LTD. LM LM VLB VLB	INDIA	NEW DELHI	110 t AC	95 MVA	2005 2006 2004 2005
KALYANI CARPENTER	INDIA	PUNE	35 t AC	22 MVA	

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SOLID MAT INJECTOR VLB					2011 2011
KESHARI STEELS LM	INDIA	INDORE	30 t AC	25 MVA	1988
MONNET ISPAT & ENERGY LIMITED 2 x LM.2 2 x SOLID MAT INJECTOR 2 x VLB	INDIA	NEW DELHI	100 t AC	80 MVA	2011 2011 2011
STEEL AUTHORITY OF INDIA LTD. ELECTRODE ARM	INDIA	DURGAPUR	125 t AC	25 MVA	2013
VARDHMAN SPECIAL STEELS LM	INDIA	LUDHIANA, PUNJAB	35 t AC	20 MVA	2013
VISA STEEL LIMITED LM	INDIA	ORISSA	70 t AC	60 MVA	2010
HANIL JAYA LM	INDONESIA	SURABAYA	30 t AC	22 MVA	1995
ISPAT INDO LM	INDONESIA	SURABAYA	88 t DC	80 MVA	1998
ISPAT INDO LM VLB	INDONESIA	SURABAYA	100 t AC	80 MVA	2005 2004
KRAKATAU STEEL LM	INDONESIA	WEST JAVA	60 t AC	40 MVA	1996
P.T. TOYO GIRI IRON & STEEL LM	INDONESIA	BEKASI JAWA BARAT	32 t AC	20 MVA	2010
IRISH STEEL LTD. / IRISH ISPAT BURNERS LM	IRELAND	CORK	100 t AC	65 MVA	1992 1988
HOD ASSAF STEEL LTD. LM	ISRAEL	AKKO	54 t AC	48 MVA	1992
YEHUDA STEEL LTD. BURNERS LM	ISRAEL	ASHDOD	25 t AC	18 MVA	2000 1998
ACCIAI SPECIALI TERNI S.P.A. SOLID MAT INJECTOR VLB	ITALY	TERNI	155 t AC	120 MVA	2015 2015
ACCIAIERIE DI CALVISANO SPA LM	ITALY	CALVISANO	70 t AC	48 MVA	2009

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ALFA ACCIAI S.P.A. LM.2 VLB	ITALY	SAN POLO - BRESCIA	85 t AC	85 MVA	2009 2002
ARVEDI / ACC. ISP DI CREMONA (USINOR) BURNERS	ITALY	CREMONA	75 t AC	96 MVA	1995
ASO LM	ITALY	OSPITALETTO	32 t DC	22 MVA	1996
FERALPI SIDERURGICA S.P.A. BURNERS	ITALY	LONATO	80 t AC	70 MVA	1998
FERALPI SIDERURGICA S.P.A. SOLID MAT INJECTOR SOLID MAT INJECTOR VLB VLB	ITALY	LONATO	80 t AC	70 MVA	2003 2004 2003 2004
FERRERO BURNERS LM VLB	ITALY	S. DIDERO	82 t AC	75 MVA	1997 1997 2000
LUCCHINI LOVERE SOLID MAT INJECTOR VLB	ITALY	LOVERE	60 t AC	38 MVA	2014 2014
RIVA ACCIAIO LESEGNO S.P.A. BURNERS VLB	ITALY	LESEGNO, CUNEO	80 t AC	50 MVA	1998 2000
CHUBU STEEL VLB	JAPAN	NAGOYA	200 t AC	70 MVA	2006
ITO STEEL ELECTRODE ARM	JAPAN	ISHINOMAKI	80 t AC	36 MVA	1994
KANSAI STEEL LM	JAPAN	OSAKA	75 t AC	42 MVA	1991
MITSUBISHI STEEL MURORAN INC. LM	JAPAN	MURORAN	100 t DC	65 MVA	1993
NAKAYAMA STEEL WORKS VLB VLB	JAPAN	TAISHO-KU, OSAKA	85 t DC	60 MVA	2005 2013
TOKYO STEEL - KYUSHU WORKS LM	JAPAN	FUKUOKA-KEN	130 t DC	100 MVA	1990
TOKYO STEEL - OKAYAMA WORKS 2 x LM	JAPAN	OKYAMA	140 t DC	140 MVA	1991

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TOKYO STEEL - TAKAMATSU WORKS 2 x LM	JAPAN	KAGAWA-KEN	60 t DC	50 MVA	1991
TOYOHIRA STEEL ELECTRODE ARM	JAPAN	SAPPORO	60 t AC	30 MVA	1993
UBE STEEL LM	JAPAN	UBE	60 t AC	50 MVA	1990
ARCELORMITTAL BELVAL LM.2	LUXEMBOURG	ESCH SUR-ALZETTE	160 t DC	140 MVA	2014
ARCELORMITTAL BELVAL & DIFFERDANGE S.A. ELECTRODE ARM	LUXEMBOURG	DIFFERDANGE	160 t DC	140 MVA	2000
ARCELORMITTAL BELVAL & DIFFERDANGE S.A. LM	LUXEMBOURG	ESCH-SUR-ALZETTE	155 t DC	165 MVA	2007
AMSTEEL MILLS SDN. BHD. ELECTRODE ARM VLB VLB	MALAYSIA	BANTING	160 t DC	140 MVA	2005 2005 2007
ANN JOO STEEL BERHAD ELECTRODE ARM LM VLB	MALAYSIA	PRAI, PULAU PINANG	80 t DC	82 MVA	2003 2003 2003
MEGASTEEL SDN BHD SOLID MAT INJECTOR SOLID MAT INJECTOR VLB VLB VLB	MALAYSIA	BANTING	160 t DC	150 MVA	2005 2007 2005 2006 2007
PERWAJA - KEMAMAN PLANT 3 x LM 2 x LM	MALAYSIA	KEMAMAN	75 t DC	15 MVA	1990 1995
PERWAJA STEEL SDN BHD LM.2 LM.2	MALAYSIA	KEMAMAN, TERENGGANU DAR	90 t DC	85 MVA	2012 2012
SOUTHERN STEEL BERHAD 2 x BURNERS BURNERS	MALAYSIA	PRAI, PULAU PINANG	85 t DC	85 MVA	1996 1997
SOUTHERN STEEL BERHAD BURNERS BURNERS	MALAYSIA	PRAI, PULAU PINANG	80 t DC	85 MVA	2006 2006
SOUTHERN STEEL BERHAD ELECTRODE ARM	MALAYSIA	PRAI PULAU PINANG	80 t DC	85 MVA	2001

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SOUTHERN STEEL BERHAD LM 2 x LM	MALAYSIA	PRAI (PULAU PINANG)	70 t DC	67 MVA	1992 1996
SOUTHERN STEEL BERHAD LM.2 VLB	MALAYSIA	PRAI, PULAU PINANG	80 t DC	85 MVA	2011 2010
CSC COMPANIA SIDERURGICA DE CALIFORNIA / SIMEC BURNERS LM	MEXICO	MEXICALI	65 t AC	40 MVA	1996 1993
CSG COMPANIA SIDERURGICA DE GUADALAJARA / SIMEC LM	MEXICO	GUADALAJARA	65 t AC	40 MVA	1993
DEACERO, S.A. DE C.V. LM	MEXICO	GARZA GARCIA	50 t AC	40 MVA	1989
OVAKO WIRE BV 2 x LM	NETHERLANDS	ALBLASSERDAM	40 t AC	25 MVA	1991
STEELASIA MANUFACTURING GROUP LM	PHILIPPINES	TAGUIG CITY	65 t AC	54 MVA	2013
CMC ZAWIERCIE S.A. (EX HUTA ZAWIERCIE) LM	POLAND	ZAWIERCIE	140 t AC	62 MVA	1993
HUTA STALI CZESTOCHOWA S.A. LM.2 VLB	POLAND	CZESTOCHOWA	100 t AC	75 MVA	2006 2006
SIDERURGIA NACIONAL S.A. LM	PORTUGAL	ERMSINDE	74 t AC	45 MVA	1996
SIDERURGIA NACIONAL S.A. LM.2 LM.2	PORTUGAL	S.PEDRO FINS	135 t AC	120 MVA	2004 2004
QATAR STEEL COMPANY LTD. 3 x LM	QATAR	MESAIEED	80 t AC	65 MVA	1999
ARCELORMITTAL SOUTH AFRICA ELECTRODE ARM	REPUBLIC OF SOUTH AFRICA	VEREENIGING	20 t AC	11 MVA	2010
ARCELORMITTAL SOUTH AFRICA LTD (EX ISCOR) ELECTRODE ARM ELECTRODE ARM 2 x LM LM	REPUBLIC OF SOUTH AFRICA	PRETORIA	140 t AC	80 MVA	1995 1999 1990 1994
ARCELORMITTAL SOUTH AFRICA LTD (EX SALDANHA STEEL) ELECTRODE ARM	REPUBLIC OF SOUTH AFRICA	SALDANHA	170 t AC	137 MVA	2000

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CAPE TOWN IRON AND STEEL WORKS LM	REPUBLIC OF SOUTH AFRICA	KUILSRIVIER	35 t AC	25 MVA	1996
COLUMBUS STAINLESS LM	REPUBLIC OF SOUTH AFRICA	MIDDELBURG	100 t AC	70 MVA	1994
DAVSTEEL (PTY) LTD. LM	REPUBLIC OF SOUTH AFRICA	VANDERBIJLPARK	60 t AC	45 MVA	1988
SCAW METALS LTD. LM LM.2 VLB	REPUBLIC OF SOUTH AFRICA	GERMISTOWN	55 t AC	40 MVA	1989 2003 2003
ARCELORMITTAL HUNEDOARA S.A. ELECTRODE ARM	ROMANIA	HUNEDOARA	120 t AC	50 MVA	2008
S.C. TMK-RESITA S.A. ELECTRODE ARM LM SOLID MAT INJECTOR VLB	ROMANIA	RESITA	125 t AC	75 MVA	2009 2009 2009 2009
JSC "EVRAZ ZSMK" ELECTRODE ARM	RUSSIA	NOVOKUZNETSK	105 t AC	95 MVA	2017
NOVOKUZNETSK IRON AND STEEL PLANT SOLID MAT INJECTOR VLB	RUSSIA	NOVOKUZNETSK	105 t AC	95 MVA	2004 2004
OMZ SPETSSTAL LM.2	RUSSIA	ST. PETERSBURG	120 t AC	60 MVA	2013
HADEED ELECTRODE ARM ELECTRODE ARM ELECTRODE ARM ELECTRODE ARM LM 2 x LM	SAUDI ARABIA	MADINAT AL-JUBAIL	150 t AC	110 MVA	1997 1998 1999 2000 1998 1999
HADEED SOLID MAT INJECTOR VLB 2 x VLB VLB	SAUDI ARABIA	MADINAT AL-JUBAIL	150 t AC	120 MVA	2009 2006 2007 2009
NATIONAL STEEL & IRON FACTORY LM.2	SAUDI ARABIA	DAMMAM	85 t AC	72 MVA	2007
NATSTEEL ASIA PTE. LTD. VLB	SINGAPORE	SINGAPORE	80 t DC	56 MVA	2006

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NATSTEEL HOLDINGS PTE. LTD. VLB	SINGAPORE	SINGAPORE	90 t DC	56 MVA	2011
ACRONI D.O.O. 2 x ELECTRODE ARM LM	SLOVENIA	JESENICE	85 t AC	80 MVA	2002 2000
METAL RAVNE D.O.O. LM	SLOVENIA	RAVNE NA KOROSKEM	50 t AC	36 MVA	2004
CHANGWON SPECIALTY STEEL LM	SOUTH KOREA	CHANGWON	30 t AC	22 MVA	1994
DONGKUK INCHON 2 x ELECTRODE ARM LM	SOUTH KOREA	INCHON	37 t AC	18 MVA	1995 1992
DONGKUK POHANG 2 x SOLID MAT INJECTOR 2 x VLB	SOUTH KOREA	POHANG	140 t DC	105 MVA	2003 2003
DONGKUK PUSAN ELECTRODE ARM ELECTRODE ARM LM LM	SOUTH KOREA	PUSAN	40 t AC	33 MVA	1995 1995 1995 1995
HYUNDAI STEEL COMPANY (EX HANBO) 2 x ELECTRODE ARM 2 x ELECTRODE ARM 3 x LM	SOUTH KOREA	DANGJIN	200 t AC	30 MVA	1996 1996 1995
HYUNDAI STEEL COMPANY (EX HANBO) SOLID MAT INJECTOR VLB 2 x VLB	SOUTH KOREA	DANGJIN	150 t DC	120 MVA	2002 2002 2005
HYUNDAI STEEL COMPANY (EX INI) ELECTRODE ARM LM	SOUTH KOREA	INCHON	86 t AC	55 MVA	1996 1994
HYUNDAI STEEL COMPANY (EX INI) SOLID MAT INJECTOR SOLID MAT INJECTOR SOLID MAT INJECTOR SOLID MAT INJECTOR SOLID MAT INJECTOR VLB VLB VLB VLB VLB VLB	SOUTH KOREA	INCHON	80 t AC	66 MVA	2002 2002 2002 2003 2003 2002 2002 2002 2002 2003 2003 2003

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VLB					2008
KISCO CHANGWON - KOREA IRON AND STEEL CO. LM	SOUTH KOREA	CHANGWON	120 t DC	100 MVA	1992
KISCO MASAN - KOREA IRON AND STEEL CO. ELECTRODE ARM LM	SOUTH KOREA	MASAN	65 t AC	42 MVA	1995 1995
POSCO - POHANG IRON & STEEL ELECTRODE ARM ELECTRODE ARM ELECTRODE ARM 4 x ELECTRODE ARM LM LM	SOUTH KOREA	POHANG	90 t AC	70 MVA	1995 1995 2002 2009 2001 2002
POSCO - POHANG IRON & STEEL 2 x SOLID MAT INJECTOR 2 x VLB	SOUTH KOREA	GWANGYANG	130 t DC	102 MVA	2005 2005
YK STEEL CORP. (EX HANBO) ELECTRODE ARM ELECTRODE ARM	SOUTH KOREA	PUSAN	90 t AC	50 MVA	1993 1993
YK STEEL CORP. (EX HANBO) LM.2 SOLID MAT INJECTOR VLB	SOUTH KOREA	PUSAN	90 t AC	72 MVA	2007 2004 2004
ACERALIA- ARISTRAIN- ALTOS HORNOS DE BERGARA LM	SPAIN	BERGARA / GIPÚZCOA	140 t AC	80 MVA	1990
ACERINOX ELECTRODE ARM	SPAIN	PALMONES (LOS BARRIOS)	120 t AC	96 MVA	1998
ARISTRAIN MADRID LM	SPAIN	MADRID	140 t AC	70 MVA	1988
ARISTRAIN OLABERRIA 2 x BURNERS LM	SPAIN	OLABERRIA	140 t AC	70 MVA	1992 1991
AZMA LM	SPAIN	GETAFE	70 t AC	36 MVA	1993
CELSA BARCELONA BURNERS LM	SPAIN	CASTELLBISBAL	110 t AC	90 MVA	1995 1995
CELSA NERVACERO BURNERS LM	SPAIN	BILBAO	120 t AC	80 MVA	1992 1990

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GERDAU REINOSA LM.2	SPAIN	REINOSA	70 t AC	46 MVA	2012
GLOBAL STEEL AND WIRE NUEVA MONTANA BURNERS LM	SPAIN	SANTANDER	115 t AC	67 MVA	1995 1988
MEGASA - MEGASA SIDERURGICA. S.L. BURNERS LM	SPAIN	LA CORUÑA	81 t AC	88 MVA	1998 1993
SIDENOR BASAURI BURNERS LM	SPAIN	BASAURI	100 t AC	87 MVA	1997 1997
SIDERURGICA SEVILLANA (RIVA GROUP) BURNERS LM	SPAIN	SEVILLA	80 t AC	60 MVA	1999 1999
TUBOS REUNIDOS BURNERS BURNERS LM	SPAIN	AMURRIO	95 t AC	57 MVA	1996 1997 1995
OUTOKUMPU STAINLESS AB VLB	SWEDEN	AVESTA	85 t AC	105 MVA	2017
OVAKO STEEL AB LM	SWEDEN	HOFORS	98 t AC	60 MVA	1996
OVAKO STEEL AB VLB VLB	SWEDEN	HOFORS	110 t AC	80 MVA	2009 2011
SANDVIK MATERIALS TECHNOLOGY LM	SWEDEN	SANDVIKEN	75 t AC	50 MVA	2011
SANDVIK STEEL AB LM	SWEDEN	SANDVIKEN	75 t AC	50 MVA	1989
STAHL GERLAFINGEN AG SOLID MAT INJECTOR	SWITZERLAND	GERLAFINGEN	70 t AC	75 MVA	2014
STAHL GERLAFINGEN AG VLB	SWITZERLAND	GERLAFINGEN	70 t AC	75 MVA	2014
STAHL GERLAFINGEN AG (SWISS STEEL) LM	SWITZERLAND	GERLAFINGEN	70 t AC	60 MVA	1986
SWISS STEEL AG ELECTRODE ARM	SWITZERLAND	EMMENBRUECKE	70 t AC	60 MVA	2015
VON MOOS STAHL AG (SWISS STEEL)	SWITZERLAND	EMMENBRUECKE	70 t AC	40 MVA	

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LM LM					1989 1993
CHIEN SHUN STEEL CO. LTD 2 x LM	TAIWAN	HSIEN	50 t AC	35 MVA	2004
FENG HSIN IRON & STEEL CO.LTD. LM.2 LM.2 SOLID MAT INJECTOR SOLID MAT INJECTOR VLB VLB	TAIWAN	TAICHUNG HSIEN	110 t DC	82 MVA	2004 2006 2002 2006 2002 2006
HAI KWANG ENTERPRISE CORP. 2 x LM	TAIWAN	KAOHSIUNG	50 t AC	48 MVA	2004
LO TOUN STEEL ELECTRODE ARM LM.2	TAIWAN	YILAN	85 t AC	75 MVA	2014 2009
LUNG CHING STEEL LM	TAIWAN	KAOHSIUNG	85 t AC	60 MVA	1994
SHYEH SHENG FUAT STEEL & IRON ELECTRODE ARM LM	TAIWAN	KAOHSIUNG	65 t AC	40 MVA	1995 1998
SHYEH SHENG FUAT STEEL & IRON LM	TAIWAN	KAOHSIUNG	70 t AC	50 MVA	2008
UNITED STEEL LM	TAIWAN	TAOYUAN HSIEN	50 t AC	36 MVA	1998
WALSIN LIHWA LM	TAIWAN	TAINAN HSIEN	45 t AC	33 MVA	2004
WORLD BEST CO. LTD. LM	TAIWAN	KAOHSIUNG	70 t AC	52 MVA	2012
YIEH UNITED STEEL CORP 2 x ELECTRODE ARM LM LM SOLID MAT INJECTOR VLB	TAIWAN	KAOHSIUNG	85 t AC	70 MVA	2002 2002 2012 2012 2012
TATA STEEL (EX NTS) BURNERS LM	THAILAND	CHONBURI	75 t AC	65 MVA	1995 1991
CARIBBEAN ISPAT, LTD. 2 x ELECTRODE ARM	TRINIDAD AND TOBAGO	POINT LISAS, COUVA	110 t AC	80 MVA	1997

Steelplant	Country	Place	EAF Type	Transformer	Start-Up
EL FOULADH LM	TUNISIA	MENZEL BOURGUIBA	18 t AC	15 MVA	2005
ASIL ÇELİK SAN. VE TIC. A.S, LM	TURKEY	ATASEHIR ISTANBUL	62 t AC	24 MVA	2012
CEBITAS ELECTRODE ARM LM	TURKEY	ALIAGA	70 t AC	72 MVA	1998 1995
CEMTAS LM	TURKEY	BURSA	25 t AC	17 MVA	1999
COLAKOGLU METALURJI AS LM.2	TURKEY	BEYOGLU/ISTANBU	300 t AC	240 MVA	2008
EGEMETAL LM	TURKEY	IZMIR	90 t AC	75 MVA	1997
EKINCILER DEMIR VE CELİK LM	TURKEY	ISKENDERUN	90 t AC	70 MVA	1991
EKINCILER DEMIR VE CELİK VLB	TURKEY	ISKENDERUN	90 t AC	60 MVA	2007
ICDAS BURNERS LM	TURKEY	ISTANBUL	80 t AC	80 MVA	1993 1992
KAPTAN CELİK LM	TURKEY	ISTANBUL	100 t AC	90 MVA	2001
KOC CELİK SANAYI AS LM SOLID MAT INJECTOR VLB	TURKEY	OSMANYIE	60 t AC	60 MVA	2013 2013 2013
KROMAN CELİK BURNERS LM	TURKEY	ISTANBUL	80 t DC	80 MVA	1995 1993
YESILYURT BURNERS LM	TURKEY	SAMSUN	45 t AC	25 MVA	1997 1997
YOLBULAN BASTUG LM	TURKEY	OSMANIYE	130 t AC	120 MVA	2010
ISTIL VLB	UKRAINE	DONETSK	120 t AC	87 MVA	2008
ISTIL GROUP, INC LM.2	UKRAINE	DONETSK	130 t AC	95 MVA	2004

Steelplant	Country	Place	EAF Type	Transformer	Start-Up
ALLIED STEEL AND WIRE LTD. 2 x BURNERS 2 x LM	UNITED KINGDOM	CARDIFF	117 t AC	100 MVA	1992 1988
BRYMBO STEEL LM	UNITED KINGDOM	MANCHESTER	90 t	50 MVA	1989
CORUS ENGINEERING STEELS BURNERS LM LM.2	UNITED KINGDOM	STOCKSBRIDGE	175 t AC	90 MVA	1998 1993 2006
CORUS ENGINEERING STEELS LM.2	UNITED KINGDOM	SHEFFIELD	150 t AC	90 MVA	2007
CORUS ENGINEERING STEELS VLB	UNITED KINGDOM	SHEFFIELD	180 t AC	120 MVA	2004
METABRASIVE LTD LM	UNITED KINGDOM	WEST MIDLANDS	36 t AC	25 MVA	1998
OUTOKUMPU STAINLESS LTD. LM LM.2	UNITED KINGDOM	SHEFFIELD	130 t AC	90 MVA	1999 2008
SHEERNESS STEEL 2 x LM	UNITED KINGDOM	KENT	90 t AC	80 MVA	1989
A. FINKL & SONS LM.2 VLB	UNITED STATES	CHICAGO	80 t AC	75 MVA	2010 2010
AK STEEL ELECTRODE ARM LM	UNITED STATES	BUTLER	175 t AC	56 MVA	2001 2001
ALLEGHENY LUDLUM 2 x LM.2	UNITED STATES	BRACKENRIDGE, PA	115 t AC	95 MVA	2005
ARKANSAS STEEL ASSOCIATES ELECTRODE ARM ELECTRODE ARM	UNITED STATES	NEWPORT	45 t AC	35 MVA	2015 2017
CHARTER STEEL LM	UNITED STATES	SAUKVILLE	70 t DC	50 MVA	1991
CMC STEEL SOUTH CAROLINA VLB	UNITED STATES	CAYCE	73 t AC	90 MVA	2007
CMC STEEL TEXAS LM LM	UNITED STATES	SEGUIN	92 t AC	70 MVA	1990 1996

Steelplant	Country	Place	EAF Type	Transformer	Start-Up
GALLATIN STEEL 2 x BURNERS 2 x LM	UNITED STATES	GHENT	180 t DC	150 MVA	1997 1997
GERDAU AMERISTEEL BEAUMONT ELECTRODE ARM	UNITED STATES	BEAUMONT	145 t AC	66 MVA	1996
GERDAU AMERISTEEL SAYREVILLE LM	UNITED STATES	SAYREVILLE	70 t AC	65 MVA	1988
GERDAU AMERISTEEL WILTON ELECTRODE ARM	UNITED STATES	WILTON	80 t AC	34 MVA	1998
GERDAU BEAUMONT STEEL MILL VLB	UNITED STATES	VIDOR, TX	120 t AC	66 MVA	2017
KOPPEL STEEL ELECTRODE ARM	UNITED STATES	BEAVER FALLS	80 t AC	72 MVA	1998
MITTAL STEEL USA (EX-GEORGETOWN STEEL) 2 x LM	UNITED STATES	GEORGETOWN	70 t AC	50 MVA	1990
NORTH AMERICAN HÖGANÄS, INC. LM.2	UNITED STATES	HOLLSOPPLE, PA	50 t AC	42 MVA	2012
NUCOR STEEL AUBURN LM	UNITED STATES	AUBURN	60 t AC	40 MVA	1994
NUCOR STEEL TUSCALOOSA, INC. SOLID MAT INJECTOR VLB VLB VLB	UNITED STATES	TUSCALOOSA	150 t DC	116 MVA	2016 2016 2018 2018
NUCOR-YAMATO STEEL CORP 2 x LM	UNITED STATES	BLYTHEVILLE	120 t AC	65 MVA	1996
OUTOKUMPU STAINLESS USA VLB	UNITED STATES	CALVERT	160 t AC	155 MVA	2016
REPUBLIC ENGINEERED STEELS INC. LM	UNITED STATES	CANTON	220 t AC	110 MVA	1988
REPUBLIC STEEL SOLID MAT INJECTOR VLB	UNITED STATES	CANTON, OHIO	200 t AC	110 MVA	2012 2012
STEEL DYNAMICS, INC. VLB	UNITED STATES	COLUMBIA CITY	110 t AC	120 MVA	2016
STEEL OF WEST VIRGINIA INC. 2 x LM.2	UNITED STATES	HUNTINGTON, WV	65 t AC	28 MVA	2010

Steelplant	Country	Place	EAF Type	Transformer	Start-Up
THYSSENKRUPP STAINLESS USA LM	UNITED STATES	CALVERT	160 t AC	0 MVA	2012
TIMKEN COMPANY ELECTRODE ARM	UNITED STATES	FAIRCREST	174 t AC	96 MVA	1996
TIMKENSTEEL LM	UNITED STATES	CANTON	120 t AC	55 MVA	2016
TMK IPSCO KOPPEL TUBULARS CORP VLB	UNITED STATES	BEAVER FALLS, PA	85 t AC	66 MVA	2012
UZBEK METALLURGICAL PLANT ELECTRODE ARM	UZBEKISTAN	BEKABAD	130 t AC	18 MVA	2013
SIDETUR S.A. LM LM	VENEZUELA	BARQUISIMETO	50 t AC	34 MVA	1993 1994
SIDOR - SIDERURGICA DEL ORINOCCO 2 x SOLID MAT INJECTOR 2 x VLB	VENEZUELA	PUERTO ORDAZ	200 t AC	100 MVA	2000 2000

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