

BSE REFERENCE LIST FOR SYSTEM MEASUREMENT & CONTROL

Steelplant	Country	Place	EAF Type	Transformer	Start-Up
ONESTEEL NSW PTY. LTD (EX BHP STEEL) TSM	AUSTRALIA	SYDNEY	60 t AC	40 MVA	1998
BÖHLER EDELSTAHL GMBH & CO. KG MULTIROB	AUSTRIA	KAPFENBERG	54 t AC	30 MVA	2017
BÖHLER EDELSTAHL GMBH & CO. KG TSM	AUSTRIA	KAPFENBERG	54 t AC	30 MVA	2011
BREITENFELD EDELSTAHL AG DRS	AUSTRIA	MITTERDORF	65 t AC	30 MVA	2006
MARIENHUETTE GRAZ GMBH TSM	AUSTRIA	GRAZ	40 t AC	36 MVA	2003
THY MARCINELLE (RIVA GROUP) TSM	BELGIUM	CHARLEROI	155 t AC	120 MVA	1998
USINOR INDUSTRIE BELGIQUE TSM	BELGIUM	CHALEROI MARCHIENNE	200 t AC	100 MVA	2011
GERDAU ACONORTE S.A. TSM	BRAZIL	CURADO - RECIFE - PE	20 t AC	16 MVA	2010
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 TSM	BRAZIL	RIO DE JANEIRO	80 t AC	50 MVA	2004
GERDAU DIVINOPOLIS TSM	BRAZIL	DIVINOPOLIS	60 t	0 MVA	2003
GERDAU GUAIRA TSM	BRAZIL	ARAUCARIA-PR	80 t AC	75 MVA	2010
GERDAU RIOGRANDENSE LM.2 LM.2	BRAZIL	SAPUCAIA DO SUL	40 t AC	26 MVA	2010 2012
GERDAU S/A LM.2	BRAZIL	RIO DE JANEIRO	24 t AC	25 MVA	2009
GERDAU SAO PAULO	BRAZIL	SAO PAULO	100 t AC	75 MVA	

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LM.2					2004
SIDERURGICA BARRA MANSA S.A. LM.2 TSM	BRAZIL	BARRA MANSA	60 t AC	36 MVA	2007 2007
SINOBRAS TSM	BRAZIL	MARABA	40 t AC	41 MVA	2012
GERDAU AMERISTEEL CAMBRIDGE TSM	CANADA	CAMBRIDGE	45 t AC	40 MVA	2001
GERDAU AMERISTEEL WHITBY TSM	CANADA	WHITBY	138 t AC	94 MVA	1996
GERDAU AZA TSM	CHILE	SANTIAGO DE CHILE	60 t AC	45 MVA	2005
DAYE SPECIAL SSTEEL CO. LTD. LM.2	CHINA	HUANGSHI CITY	70 t DC	60 MVA	2007
JIANGYIN XING CHENG STEEL 2 x DRS TSM	CHINA	JIANGYIN CITY JIANGSU	110 t DC	90 MVA	2003 2004
NANJING IRON & STEEL CO. LTD. DRS MULTIROB MULTIROB	CHINA	NANJING	100 t AC	60 MVA	2015 2015 2016
SHANXI JIANBANG GROUP CO, LTD. DRS	CHINA	HOUMA CITY	65 t	0 MVA	2011
GRUPO DIACO / GERDAU LM.2	COLOMBIA	SANTA FE DE BOGOTA	48 t AC	42 MVA	2001
CMC SISAK D.O.O. LM.2	CROATIA	SISAK	60 t AC	60 MVA	2010
ASCOMETAL USINE DE FOS DRS TSM	FRANCE	FOS-SUR-MER CEDEX	135 t AC	100 MVA	2007 2008
INDUSTEEL FRANCE TSM	FRANCE	LE CREUSOT (CEDEX)	100 t AC	30 MVA	2016
ISPAT UNIMETAL GANDRANGE 2 x TSM	FRANCE	AMNÉVILLE	170 t DC	150 MVA	1994
VALLOUREC & MANNESMANN TUBES TSM	FRANCE	SAINT SAULVE	90 t AC	80 MVA	2008
ARCELORMITTAL 2 x TSM	GERMANY	BREMEN	300 t	0 MVA	2016

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BADISCHE STAHLWERKE GMBH MULTIROB MULTIROB	GERMANY	KEHL	110 t AC	90 MVA	2014 2017
BADISCHE STAHLWERKE GMBH 2 x TSM	GERMANY	KEHL	80 t AC	57 MVA	1997
BADISCHE STAHLWERKE GMBH TSM TSM	GERMANY	KEHL	90 t AC	14 MVA	2008 2009
DEUTSCHE EDELSTAHLWERKE GMBH LM.2 MULTIROB MULTIROB	GERMANY	SIEGEN-GEISWEID	140 t AC	75 MVA	2007 2017 2017
EDELSTAHLWERKE BUDERUS AG TSM	GERMANY	WETZLAR	90 t AC	40 MVA	2004
GEORGSMARIENHÜTTE GMBH TSM	GERMANY	GEORGSMARIENHÜ	120 t DC	130 MVA	2007
PEINER TRÄGER GMBH 2 x TSM	GERMANY	PEINE	100 t DC	140 MVA	1999
SALZGITTER FLACHSTAHL GMBH LM.2	GERMANY	SALZGITTER	125 t AC	170 MVA	2011
SMS DEMAG AG (PEINE II) LM.2	GERMANY	DUESSELDORF	150 t AC	140 MVA	2009
STAHLWERK THÜRINGEN GMBH TSM	GERMANY	UNTERWELLENBOR	120 t DC	120 MVA	2006
HELLENIC HALYVOURGIA SA LM.2	GREECE	KIFFISSIA-ATHENS	65 t AC	50 MVA	2007
SIDENOR THESSALONIKI TSM	GREECE	THESSALONIKI	80 t AC	45 MVA	1999
SOVEL DRS	GREECE	MAROUSSI (ATHENS)	100 t AC	70 MVA	2003
ADHUNIK METALIKS LTD. TSM	INDIA	KOLKATA	40 t AC	32 MVA	2010
JINDAL SOUTH WEST TSM	INDIA	TORANAGALLU	160 t AC	137 MVA	2013
MONNET ISPAT & ENERGY LIMITED 2 x LM.2	INDIA	NEW DELHI	100 t AC	80 MVA	2011
PT ISPAT INDO	INDONESIA	SURABAYA	100 t AC	80 MVA	

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TSM					2011
ALFA ACCIAI S.P.A. LM.2	ITALY	SAN POLO - BRESCIA	85 t AC	85 MVA	2009
ALFA ACCIAI S.P.A. TSM	ITALY	SAN POLO - BRESCIA	80 t AC	75 MVA	1996
ASO TSM	ITALY	OSPITALETTO	32 t DC	22 MVA	1996
FERALPI LONATO TSM	ITALY	LONATO	80 t AC	70 MVA	1998
FERRERO TSM	ITALY	S. DIDERO	82 t AC	75 MVA	1997
LEALI VALSUGANA TSM	ITALY	BORGO VALSUGANA	88 t AC	60 MVA	1997
TOKYO STEEL - KYUSHU PLANT TSM	JAPAN	FUKUOKA-KEN	130 t DC	100 MVA	2015
ARCELORMITTAL BELVAL LM.2	LUXEMBOURG	ESCH SUR-ALZETTE	160 t DC	140 MVA	2014
ARCELORMITTAL BELVAL & DIFFERDANGE S.A. TSM TSM	LUXEMBOURG	ESCH-SUR-ALZETTE	150 t DC	120 MVA	1999 1999
ANN JOO STEEL BERHAD DRS TSM	MALAYSIA	PRAI, PULAU PINANG	80 t DC	82 MVA	2006 2003
PERWAJA STEEL SDN BHD LM.2 LM.2 2 x TSM	MALAYSIA	KEMAMAN, TERENGGANU DAR	90 t DC	85 MVA	2012 2012 2008
SOUTHERN STEEL BERHAD LM.2	MALAYSIA	PRAI, PULAU PINANG	80 t DC	85 MVA	2011
ALTOS HORNOS DE MEXICO - TSM	MEXICO	MONCLOVA	150 t AC	140 MVA	2016
ARCELORMITTAL LAZARO CARDENAS MULTIROB	MEXICO	LAZARO-CARDENAS	220 t AC	150 MVA	2017
TAMSA TSM	MEXICO	VERACRUZ	150 t AC	80 MVA	1998
HUTA STALI CZESTOCHOWA S.A. LM.2	POLAND	CZESTOCHOWA	100 t AC	75 MVA	2006

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SIDERURGIA NACIONAL S.A. LM.2 LM.2	PORTUGAL	S.PEDRO FINS	135 t AC	120 MVA	2004 2004
QATAR STEEL COMPANY LTD. TSM	QATAR	MESAIEED	91 t AC	79 MVA	2003
SCAW METALS LTD. LM.2	REPUBLIC OF SOUTH AFRICA	MARSHALLTOWN	75 t AC	75 MVA	2003
ARCELORMITTAL HUNEDOARA S.A. TSM	ROMANIA	HUNEDOARA	120 t AC	50 MVA	2008
S.C. TMK-RESITA S.A. TSM	ROMANIA	RESITA	125 t AC	75 MVA	2009
NOVOKUZNETSK IRON AND STEEL PLANT TSM	RUSSIA	NOVOKUZNETSK	105 t AC	95 MVA	2006
OMZ SPETSSTAL LM.2	RUSSIA	ST. PETERSBURG	120 t AC	60 MVA	2013
ARAB STEEL COMPANY LTD. TSM	SAUDI ARABIA	DAMMAM	130 t DC	102 MVA	2017
NATIONAL STEEL & IRON FACTORY LM.2	SAUDI ARABIA	DAMMAM	85 t AC	72 MVA	2007
SAUDI BASIC INDUSTRIES TSM	SAUDI ARABIA	JUBAIL INDUSTRIAL CITY	150 t AC	120 MVA	2013
NATSTEEL HOLDINGS PTE. LTD. TSM	SINGAPORE	SINGAPORE	90 t DC	56 MVA	2010
ACRONI D.O.O. TSM	SLOVENIA	JESENICE	85 t AC	60 MVA	2001
STORE STEEL D.O.O. TSM	SLOVENIA	STORE	60 t AC	40 MVA	2014
HYUNDAI STEEL COMPANY (EX HANBO) 3 x TSM	SOUTH KOREA	DANGJIN	150 t AC	120 MVA	1994
HYUNDAI STEEL COMPANY (EX INI) TSM	SOUTH KOREA	INCHON	86 t AC	55 MVA	1994
KISCO MASAN - KOREA IRON AND STEEL CO. TSM	SOUTH KOREA	MASAN	65 t AC	42 MVA	1995
YK STEEL CORP. (EX HANBO) LM.2	SOUTH KOREA	PUSAN	90 t AC	72 MVA	2007
ACERINOX	SPAIN	LOS BARIOS (CADIZ)	120 t AC	96 MVA	

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TSM					2004
GERDAU REINOSA LM.2	SPAIN	REINOSA	70 t AC	46 MVA	2012
SIDERURGICA SEVILLANA (RIVA GROUP) TSM	SPAIN	SEVILLA	80 t AC	60 MVA	1999
TUBOS REUNIDOS TSM	SPAIN	AMURRIO	90 t DC	57 MVA	2001
OUTOKUMPU STAINLESS AB MULTIROB	SWEDEN	AVESTA	85 t AC	105 MVA	2014
OVAKO BAR AB DRS TSM	SWEDEN	SMEDJEBACKEN	135 t AC	95 MVA	2012 2008
FENG HSIN IRON & STEEL CO.LTD. LM.2 LM.2	TAIWAN	TAICHUNG HSIEN	110 t DC	82 MVA	2004 2006
LO TOUN STEEL LM.2	TAIWAN	YILAN COUNTY	80 t AC	80 MVA	2009
SHYEH SHENG FUAT STEEL & IRON TSM	TAIWAN	KAOHSIUNG	70 t AC	50 MVA	2009
WORLD BEST CO. LTD. TSM	TAIWAN	KAOHSIUNG	70 t AC	52 MVA	2012
COLAKOGLU METALURJI AS LM.2	TURKEY	BEYOGLU/ISTANBU	300 t AC	240 MVA	2008
KROMAN CELIK TSM	TURKEY	ISTANBUL	80 t DC	75 MVA	1993
ISTIL GROUP, INC LM.2	UKRAINE	DONETSK	130 t AC	95 MVA	2004
CORUS ENGINEERING STEELS LM.2	UNITED KINGDOM	SHEFFIELD	185 t AC	120 MVA	2006
CORUS ENGINEERING STEELS LM.2	UNITED KINGDOM	SHEFFIELD	150 t AC	90 MVA	2007
OUTOKUMPU STAINLESS LTD. LM.2	UNITED KINGDOM	SHEFFIELD	120 t AC	85 MVA	2008
A. FINKL & SONS LM.2	UNITED STATES	CHICAGO	80 t AC	75 MVA	2010
ALLEGHENY LUDLUM 2 x LM.2	UNITED STATES	BRACKENRIDGE, PA	115 t AC	95 MVA	2005

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ARKANSAS STEEL ASSOCIATES TSM	UNITED STATES	NEWPORT	45 t AC	35 MVA	2008
BETA STEEL CORP. TSM	UNITED STATES	PORTAGE	50 t AC	43 MVA	2004
CASCADE STEEL TSM	UNITED STATES	MCMINNVILLE	110 t AC	90 MVA	2010
CMC STEEL TEXAS TSM	UNITED STATES	SEGUIN	92 t AC	70 MVA	1994
ELLWOOD QUALITY STEELS TSM	UNITED STATES	NEW CASTLE	45 t AC	26 MVA	2000
GALLATIN STEEL 2 x TSM	UNITED STATES	GHENT	180 t DC	150 MVA	1997
GERDAU AMERISTEEL KNOXVILLE TSM	UNITED STATES	KNOXVILLE	55 t AC	40 MVA	2009
GERDAU AMERISTEEL SAYREVILLE TSM	UNITED STATES	SAYREVILLE	70 t AC	65 MVA	1996
NORTH AMERICAN HÖGANÄS, INC. LM.2	UNITED STATES	HOLLSOPPLE, PA	50 t AC	42 MVA	2012
NUCOR STEEL AUBURN TSM	UNITED STATES	AUBURN	60 t AC	40 MVA	1996
NUCOR-YAMATO STEEL CORP TSM	UNITED STATES	BLYTHEVILLE	120 t AC	65 MVA	1996
REPUBLIC STEEL TSM	UNITED STATES	CANTON, OHIO	200 t AC	110 MVA	2012
STEEL OF WEST VIRGINIA INC. 2 x LM.2	UNITED STATES	HUNTINGTON, WV	65 t AC	28 MVA	2010
TIMKEN COMPANY TSM 2 x TSM	UNITED STATES	FAIRCREST	150 t AC	120 MVA	2005 2005

Number of System Measurement & Control References: 114