

BSE REFERENCE LIST FOR TEMPERATURE / SAMPLING MANIPULATORS

Steelplant	Country	Place	EAF Type	Transformer	No. of Units	Start-Up
ONESTEEL NSW PTY. LTD (EX BHP STEEL)	AUSTRALIA	SYDNEY	60 t AC	40 MVA	1	1998
BÖHLER EDELSTAHL GMBH & CO. KG	AUSTRIA	KAPFENBERG	54 t AC	30 MVA	1	2011
MARIENHUETTE GRAZ GMBH	AUSTRIA	GRAZ	40 t AC	36 MVA	1	2003
THY MARCINELLE (RIVA GROUP)	BELGIUM	CHARLEROI	155 t AC	120 MVA	1	1998
USINOR INDUSTRIEEL BELGIQUE	BELGIUM	CHALEROI MARCHIENNE	200 t AC	100 MVA	1	2011
GERDAU ACONORTE S.A.	BRAZIL	CURADO - RECIFE - PE	20 t AC	16 MVA	1	2010
GERDAU COSIGUA	BRAZIL	RIO DE JANEIRO	80 t AC	50 MVA	1	2004
GERDAU DIVINOPOLIS	BRAZIL	DIVINOPOLIS	60 t	0 MVA	1	2003
GERDAU GUAIRA	BRAZIL	ARAUCARIA-PR	80 t AC	75 MVA	1	2010
SIDERURGICA BARRA MANSA S.A.	BRAZIL	BARRA MANSA	60 t AC	36 MVA	1	2007
SINOBRAS	BRAZIL	MARABA	40 t AC	41 MVA	1	2012
GERDAU AMERISTEEL CAMBRIDGE	CANADA	CAMBRIDGE	45 t AC	40 MVA	1	2001
GERDAU AMERISTEEL WHITBY	CANADA	WHITBY	138 t AC	94 MVA	1	1996
GERDAU AZA	CHILE	SANTIAGO DE CHILE	60 t AC	45 MVA	1	2005
JIANGYIN XING CHENG STEEL	CHINA	JIANGYIN CITY JIANGSU	100 t DC	100 MVA	1	2004
ASCOMETAL USINE DE FOS	FRANCE	FOS-SUR-MER CEDEX	135 t AC	100 MVA	1	2008
INDUSTEEL FRANCE	FRANCE	LE CREUSOT (CEDEX)	100 t AC	30 MVA	1	2016
ISPAT UNIMETAL GANDRANGE	FRANCE	AMNÉVILLE	170 t DC	150 MVA	2	1994
VALLOUREC & MANNESMANN TUBES	FRANCE	SAINT SAULVE	90 t AC	80 MVA	1	2008
ARCELORMITTAL	GERMANY	BREMEN	300 t	0 MVA	2	2016
BADISCHE STAHLWERKE GMBH	GERMANY	KEHL	80 t AC	57 MVA	2	1997
BADISCHE STAHLWERKE GMBH	GERMANY	KEHL	90 t AC	14 MVA	1	2008
BADISCHE STAHLWERKE GMBH	GERMANY	KEHL	90 t AC	90 MVA	1	2009
EDELSTAHLWERKE BUDERUS AG	GERMANY	WETZLAR	90 t AC	40 MVA	1	2004

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GEORGS-MARIENHÜTTE GMBH	GERMANY	GEORGS-MARIENHÜ	120 t DC	130 MVA	1	2007
PEINER TRÄGER GMBH	GERMANY	PEINE	100 t DC	140 MVA	2	1999
STAHLWERK THÜRINGEN GMBH	GERMANY	UNTERWELLENBOR	120 t DC	120 MVA	1	2006
SIDENOR THESSALONIKI	GREECE	THESSALONIKI	80 t AC	45 MVA	1	1999
ADHUNIK METALIKS LTD.	INDIA	KOLKATA	40 t AC	32 MVA	1	2010
JINDAL SOUTH WEST	INDIA	TORANAGALLU	160 t AC	137 MVA	1	2013
PT ISPAT INDO	INDONESIA	SURABAYA	100 t AC	80 MVA	1	2011
ALFA ACCIAI S.P.A.	ITALY	SAN POLO - BRESCIA	80 t AC	75 MVA	1	1996
ASO	ITALY	OSPITALETTO	32 t DC	22 MVA	1	1996
FERALPI LONATO	ITALY	LONATO	80 t AC	70 MVA	1	1998
FERRERO	ITALY	S. DIDERO	82 t AC	75 MVA	1	1997
LEALI VALSUGANA	ITALY	BORGO VALSUGANA	88 t AC	60 MVA	1	1997
TOKYO STEEL - KYUSHU PLANT	JAPAN	FUKUOKA-KEN	130 t DC	100 MVA	1	2015
ARCELORMITTAL BELVAL & DIFFERDANGE S.A.	LUXEMBOURG	ESCH-SUR-ALZETTE	150 t DC	120 MVA	1	1999
ARCELORMITTAL BELVAL & DIFFERDANGE S.A.	LUXEMBOURG	DIFFERDANGE	150 t DC	120 MVA	1	1999
ANN JOO STEEL BERHAD	MALAYSIA	PRAI, PULAU PINANG	80 t DC	82 MVA	1	2003
PERWAJA STEEL SDN BHD	MALAYSIA	SHAH ALAM, SELANGOR	90 t DC	85 MVA	2	2008
ALTOS HORNOS DE MEXICO -	MEXICO	MONCLOVA	150 t AC	140 MVA	1	2016
TAMSA	MEXICO	VERACRUZ	150 t AC	80 MVA	1	1998
QATAR STEEL COMPANY LTD.	QATAR	MESAIEED	91 t AC	79 MVA	1	2003
ARCELORMITTAL HUNEDOARA S.A.	ROMANIA	HUNEDOARA	120 t AC	50 MVA	1	2008
S.C. TMK-RESITA S.A.	ROMANIA	RESITA	125 t AC	75 MVA	1	2009
NOVOKUZNETSK IRON AND STEEL PLANT	RUSSIA	NOVOKUZNETSK	105 t AC	95 MVA	1	2006
ARAB STEEL COMPANY LTD.	SAUDI ARABIA	DAMMAM	130 t DC	102 MVA	1	2017
SAUDI BASIC INDUSTRIES	SAUDI ARABIA	JUBAIL INDUSTRIAL CITY	150 t AC	120 MVA	1	2013
NATSTEEL HOLDINGS PTE. LTD.	SINGAPORE	SINGAPORE	90 t DC	56 MVA	1	2010

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ACRONI D.O.O.	SLOVENIA	JESENICE	85 t AC	60 MVA	1	2001
STORE STEEL D.O.O.	SLOVENIA	STORE	60 t AC	40 MVA	1	2014
HYUNDAI STEEL COMPANY (EX HANBO)	SOUTH KOREA	DANGJIN	150 t AC	120 MVA	3	1994
HYUNDAI STEEL COMPANY (EX INI)	SOUTH KOREA	INCHON	86 t AC	55 MVA	1	1994
KISCO MASAN - KOREA IRON AND STEEL CO.	SOUTH KOREA	MASAN	65 t AC	42 MVA	1	1995
ACERINOX	SPAIN	LOS BARIOS (CADIZ)	120 t AC	96 MVA	1	2004
SIDERURGICA SEVILLANA (RIVA GROUP)	SPAIN	SEVILLA	80 t AC	60 MVA	1	1999
TUBOS REUNIDOS	SPAIN	AMURRIO	90 t DC	57 MVA	1	2001
OVAKO BAR AB	SWEDEN	SMEDJEBACKEN	150 t AC	95 MVA	1	2008
SHYEH SHENG FUAT STEEL & IRON	TAIWAN	KAOSIUNG	70 t AC	50 MVA	1	2009
WORLD BEST CO. LTD.	TAIWAN	KAOSIUNG	70 t AC	52 MVA	1	2012
KROMAN CELIK	TURKEY	ISTANBUL	80 t DC	75 MVA	1	1993
ARKANSAS STEEL ASSOCIATES	UNITED STATES	NEWPORT	45 t AC	35 MVA	1	2008
BETA STEEL CORP.	UNITED STATES	PORTAGE	50 t AC	43 MVA	1	2004
CASCADE STEEL	UNITED STATES	MCMINNVILLE	110 t AC	90 MVA	1	2010
CMC STEEL TEXAS	UNITED STATES	SEGUIN	92 t AC	70 MVA	1	1994
ELLWOOD QUALITY STEELS	UNITED STATES	NEW CASTLE	45 t AC	26 MVA	1	2000
GALLATIN STEEL	UNITED STATES	GHENT	180 t DC	150 MVA	2	1997
GERDAU AMERISTEEL KNOXVILLE	UNITED STATES	KNOXVILLE	55 t AC	40 MVA	1	2009
GERDAU AMERISTEEL SAYREVILLE	UNITED STATES	SAYREVILLE	70 t AC	65 MVA	1	1996
NUCOR STEEL AUBURN	UNITED STATES	AUBURN	60 t AC	40 MVA	1	1996
NUCOR-YAMATO STEEL CORP	UNITED STATES	BLYTHEVILLE	120 t AC	65 MVA	1	1996
REPUBLIC STEEL	UNITED STATES	CANTON, OHIO	200 t AC	110 MVA	1	2012
TIMKEN COMPANY	UNITED STATES	FAIRCREST	150 t AC	120 MVA	1	2005
TIMKEN COMPANY	UNITED STATES	CANTON	120 t AC	85 MVA	2	2005

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Number of TSM References: 84