

## AUTOMATION 1990-2019 reference list worldwide

**COLOUR LEGEND:**

	POWER PLANTS AND MINES
	METALS
	PULP AND PAPER
	OIL AND GAS, CHEMICAL INDUSTRY
	WATER SUPPLY AND TREATMENT, OTHER AREAS

USER	APPLICATION	PROJECT DELIVERY	YEAR
Misco, Oman	Mini mill	Software engineering	2020
Mukand Sumi Special Steel Ltd., India	Rolling Mill Plant - PSM	Software engineering	2020
NLMK Dansteel A/S, Denmark	Slab reheating furnace	Electrical Design Engineering	2019
Timken Steel, Canton, Ohio, USA	Pipe & bar sawing machine 2 (KKS 800)	SW engineering and commissioning	2019
Posco, Pohang, South Korea	WRM2 – Pouring Reel Line	Electrical Design engineering and manufacturing of PLC, RIOs, MCCs and multidrive	2019
Hotel Westin, Zagreb, Croatia	MCC for cooling pumps	Electrical Design engineering, manufacturing, erection and commissioning	2019
Ovako AB, Smedjebacken, Sweden	Meltshop – vacuum degasser	Electrical Design engineering and manufacturing of PLC, RIOs, MCCs and drives automation	2019
Timken Steel, Canton, Ohio, USA	Pipe & bar sawing machine 1	SW engineering and commissioning	2019
El Marakby Steel, Egypt	Wastewater treatment plant within rolling mill	Electrical Design engineering and manufacturing of automation, drives, MCC and control panels	2018
Acciona, Trinidad and Tobago	Wastewater treatment plant	SW engineering	2018
Audi, Germany	Rear axle adjustment machine and spring mounting machine	SW development, electrical assembly and commissioning	2019
JinXi, People Republic of China	Metal sheet pairing line	Electrical Design engineering, manufacturing and SW engineering of automation, drives and electrification	2018
VW, Germany	Part transfer carts	SW development, electrical assembly and commissioning	2018
ENEL, Ventotene, Italy	Power plant	SW development and commissioning of a hybrid power system	2018
ABINSK ESW Ltd. Abinsk, Russian Federation	Rolling mill plant	Extension of existing line, design and manufacturing of RIO, drives, MCC and local control pulpits	2018

USER	APPLICATION	PROJECT DELIVERY	YEAR
Trans Adriatic Pipeline - Greece, Albania and Italy	Gas pipeline compressor stations	Electrical engineering and SW development for DCS, ESD and FGS systems	2018
Arcelor Mittal Steel Zenica, Bosnia and Herzegovina	Diesel blower for air supply of blast furnace	SW development and refurbishment of automation, electrification and instrumentation	2018
SIDER, Annaba, Algeria	Hot Strip Rolling mill	L2 communication and UPS upgrade	2018
Xinyegang Special Steel, Huangshi, PR China	2x TCM 1380 abrasive cutting machine	Automation, engineering, SW development, supervision of erection and commissioning	2018
EVRAZ Nizhniy Tagil Metallurgical Plant, Russian Federation	Ball Mill	Technology and SW engineering, supervision of erection and commissioning	2017
Feralpi, Riesa, Germany	Wire rod mill	Integration of Siemens S7-400 PLCs into ABB 800xa system	2017
Acerinox Europe S.A.U. Los Barrios, Spain	Cold Rolling Mill No.7 (ZM7)	L2 software development	2017
North American Stainless, Kentucky, USA	20HI CRM Monoblock at Rolling Mill	L2 software development	2016
ELFOULADH Steel co. Bourguiba Tunisia	Wire rod mill	Delivery of 2xDC drive 2050A each and integration into existing automation	2016.
HABAS, Turkey	Skin pass mill	Electrical design, manufacturing, SW development and commissioning	2016
ARCELOR MITTAL Annaba, Algeria	Blast Furnace	Automation system	2016
Arcelor Mittal Zenica, Bosnia and Herzegovina	Continuous Casting	Electrical equipment, drives and automation system	2015
ASOVSTEEL Mariupol, Ukraine	Rail and section mill	Basic and detailed engineering	2015
HUTA LABEDY, Poland	Tube Mill	Double head hydrostatic tester and pipe transport - automation system, drives and mcc	2015
SILMET - TORBOLE CASAGLIA (BS), Italy	Extrusion press	Automation system and mcc	2015
HYUNDAI STEEL, Korea	Continuous Casting	Automation system	2015
CORINTH PIPEWORKS THISVI, Greece	Tube Mill	Electrical equipment and automation system for pipe transport	2014
NAVITAS SOLIS D.O.O. Croatia	Navitas Solis d.o.o. Croatia	Design, delivery, installation and commissioning of SPP "Marin" 300kW and SPP "Inero" 282kW	2014
KARDEMIR, Turkey	Continuous Casting	Automation system	2014
KARDEMIR, Turkey	Rolling Mill	Automation system	2014
GVDO, Brazil	Rolling Mill	Automation system	2014
RUHRORT, Germany	Reheating Furnace	Automation system	2013

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VISA STEEL, India	Reheating Furnace	Automation system	2013
SOUTH STEEL CO., Saudi Arabia	Bar Mill	Automation system	2012
ZHASAN YOUFA, CHINA	Continuous casting	Automation system	2011
ELKA KABELI Zagreb, Croatia	Cable factory Process lines	Modernization of automation and HMI on the Wire Sheathing Line	2010
ARCELOR MITTAL Zenica, Bosna i Hercegovina	Steel factory	Technical assistance for BOF Steel Plant, Blast Furnace and Sinter Plant Automation Systems	2010
NEGEV INDUSTRIAL MINERALS, Israel	Lime kiln	E5 -300 tpd natural gas/biogas and heavy fuel fired Maerz lime kiln electrical and automation system	2010
TLM - TVP d.o.o., Šibenik, Croatia	Rolling mill	Modernization of metal sheet straightening line RL-2	2010
SIDERUGICA, Balboa, Spain	Rolling mill	Bar rolling mill revamping	2010
NAVARD ARIAN FOOLAD C.o. (ARIAN STEEL C.o.)	New rebar mill	Automation and Drive system for new Rebar rolling Mill plant	2009
VAGROS/MAF RODA Spain	Food factory	Installation and commissioning of fruit sorting machines at Neretva voce (Agrokor) and Vagros, Croatia	2009
Yaroslav carton Yaroslav, Russia	Paper mill	Reconstruction of corrugated paper line	2009
BAOSTEEL, China	Steel factory	Electrical Equipment & Automation System for new Redressing Machine	2009
LUKA VUKOVAR d.o.o Vukovar, Croatia	Main port	Crane regulated drive refurbishment and service contract	2009
T-PAP UNIPACK PAPER CO Sfax, Tunisia	Paper mill	Deliver of Paper lline multidrive extension	2009
PISHGAMAN SANTAH KAGHAZ CO Teheran, Iran	Paper mill	New paper machine electrification - Delivery of motors, motor control centers, multidrives, control system, engineering, application software development, equipment assembly, installation supervision and commissioning	2009
KOLUBARA, Serbia	Open pit mine	Delivery of equipment, start-up and delivery of as-built documentation for two belt wagons/spreaders	2009
HAMRYAH Steel Dubai, UAE	Rolling mill	Automation of hardware and software design for bar and wire rod mill; entry & exit area automation	2009
ATRAK Esfahan, Iran	Paper mill Continuous paper machine	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2009
PEHART TEC SA Petresti, Romania	Paper mill	Tissue machine; System of control and supervision	2009
KOSTENEZ HHI Bulgaria	Paper mill	Tissue machine; System of control and supervision	2009
ELFOULADH Steel co. Bourguiba Tunisia,	Wire rod mill	Modernization of Automation and Drives in Wire-rod Mill	2009
TIMKEN Co Canton, OH, USA	Tapered rolled bearings factory	Automation software and commissioning	2009

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CMC Sisak, Croatia	Steel making plant	Electrical Arc Furnace Fume Treatment Plant Automation System	2009
TMK Tagmet, Russia	Steel making plant	Automation software and commissioning of five strand continuous bloom caster	2009
Korporata Energjetike Kosova Coal Mines Prishtina Kosovo	Overburden system I Overburden system II	Turn key refurbishment of the belt conveyers and spreader system for overburden removal in coal mines	2009
SONASID Nador, Marocco	Two strand wire rod mill	Automation, design and start up of two strand wire rod mill exit section	2009
CMC Sisak, Croatia	Steel making plant	Modernization of automation&drives on continuous casting machine	2009
SINOBRAS Maraba, Brasil	Bar and wire rod mill	Automation of hardware and software design for bar and wire rod mill; entry & exit area automation	2009
KROMAN CELIK SANAYII Turkey	Steel making factory	Control and supervision of start up system of finishing area line, commissioning	2009
CINKARNA CELJE Celje, Slovenia	Zink strip mill	Reconstruction of edge training line	2009
Korporata Energjetike Kosova Prishtina Kosovo	Repair of excavator ESH - 10	Dismantle of electrical equipment, supply, delivery and assembly new electrical equipment, design and whole technical documentation for repairing on excavator ESH 10	2009
BESHAY STEEL Cairo, Egypt	Bar rolling mill	Water treatment plant automation	2009
TLM, Šibenik Croatia	Aluminium rolling mill	Control and supervision of two (2) aluminium coil furnaces	2009
TLM, Šibenik Croatia	Aluminium rolling mill	Control and supervision of five (5) aluminium foil furnaces	2009
TLM, Šibenik Croatia	Aluminium rolling mill	Level 2 system for aluminium cold rolling mill	2009
TLM, Šibenik Croatia	Aluminium rolling mill	Turn key project of two (2) aluminium foil mills for automation system, drives, motors and sensors including AGC/AFC system Level 2 system	2009
TLM, Šibenik Croatia	Aluminium rolling mill	Turn key project of aluminium prefoil mill for automation system, drives, motors and sensors Level 2 system	2009
FENG SHIN CABLE Co Taiwan	Cable factory Process line	Control and supervision of start up system of finishing area line commissioning	2008
ARCELOR MITTAL Timoteo, Brasil	Steel making factory	Level 2 automation for steel making plant	2008
TK AST Terni Italy	Steel making plant	Level 2 automation for steel making plant	2008
ABINSK ESW Ltd. Abinsk, Russian Federation	Rolling mill plant	Turn key project of complete automation system, PLC and multidrives, SW	2008
Port of Rijeka, Rijeka, Croatia	Samsung Crane	Turn key project of reconstruction of automation and drive system	2008
CMC Sisak, Croatia	Steel making plant	System of VBC reconstruction	2008

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ACCIAERIE VALBRUNA Vicenza, Italy	70 t AOD plant	Turn key project for automation system, drives, motors and sensors	2008
BESHAY STEEL Cairo, Egypt	Steel making factory	Level 2 automation for steel making plant	2008
ACRONI Jesenice, Slovenia	Steel making factory	Automation of edge cutting line	2008
ARCELOR MITTAL Zenica, Bosnia and Herzegovina	Steel making factory	Technical assistance during for startup of boiler K1 on coke oven gas (COG) and blast furnace gas; delivery of equipment, parameter settings, algorithms adaptation, start up, operator trainings	2008
Compania Siderugica Huachipato S.A (CSH) Concepcion, Chile	Steel making factory	Supervision of start up of finishing line	2008
SIDERUGICA Barra Mansa S.A. Brasil	Single strand mill	Control and supervision of start up system of single strand line, commissioning	2008
GERDAU COSIGA Rio de Janeiro, Brasil	Two strand wire rod mill	Control and supervision of saw start up system Commissioning	2008
KSP Steel factory Pavlodar, Kazahstan	Steel making factory	Tube upsetting press Automation of system for control and supervision	2008
ALCOA Transformacion de productons Alicante, Spain	Hot Rolling mill	Automation of control system for continuous casting line	2008
ALGHANIM INTERNATIONAL Kuwait	Az Zour Power Plant	Automation of I&C system for two gas turbines GT 13E2	2008
KASUR PACKAGES Ltd Lahore, Pakistan	Paper machine 7 Paper machine 8 Paper machine 9	Board machine, stock preparation and deinking plant automation and control system	2008
AL KEENA, Jordan	Paper Mill	Tissue machine; System of control and supervision	2008
SEPETIBA, Rio de Janeiro Brazil	Blast furnace BF1 Blast furnace BF2	Supply of design, manufacturing, erection and commissioning of BF1 and BF2 automation	2008
Tonghua Iron&Steel Co., China	Cold Rolling Mill Nr. 1	Level 2 automation software	2008
Tonghua Iron&Steel Co., China	Cold Rolling Mill Nr. 2	Level 2 automation software	2008
Tonghua Iron&Steel Co., China	Skin Pass Mill	Level 2 automation software	2008
Chinalco, SouthWest Aluminum, Chongqing, China	Cold Rolling Mill Nr. 2	Level 2 automation software	2008
YUSCO (YIEH United), Kaohsiung, Taiwan	Coil Rolling Mill Nr. 6 (Cluster Mill)	Level 2 automation software	2008
YUSCO (YIEH United), Kaohsiung, Taiwan	Coil Rolling Mill Nr. 5 (6 High Mill)	Level 2 automation software	2008
ZJG Hongchang Plate Co., China	Skin Pass Mill	Level 2 automation software	2008
ZJG Hongchang Plate Co., China	Coil Dividing Line	Level 2 automation software	2008
COSIGUA SCR GERDAU ACOS LONGOS Rio de Janeiro, BRASIL	Hot rolling mill	Supervision of Saw start up	2008
ACERINOX Barcelona, SPAIN	Process line	Bright annealing line automation	2008
BELISCE d.d. Belisce, Croatia	Paper Mill 2 Paper Mill 3	Refurbishment of control equipment for evaporation system of Paper Mill 2 and Paper Mill 3	2008
SMS Demag INNSE Spa, Milano Italy	Process lines	Electrical equipment for Continuous Galvanizing Lines 1 & 2 including engineering, delivery, automation, installation, training and supervision	2008
ADNIP Abu Dhabi, UAE	Paper Mill	Automation and control system	2007

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SMS Demag INNSE SpA, Milano Italy	Pipe rolling mill	Electrical Equipment for Calibration Stand in TPCO Tianjin, China	2007
AL SNOBAR Jordan	Paper mill	Tissue machine; System of control supervision	2007
Jelen Do Lime Plant, Republic of Serbia	Lime Kiln plant	Supply of engineering and equipment for a 350 tpd natural gas fired lime kiln	2007
ARCELOR MITTAL Zenica, Bosnia and Herzegovina	Steel Making Factory Blast Furnace Plant BF 4	Refurbishing of blast furnace BF4 automation and instrumentation; Design, supply of equipment, installation and start-up.	2007
ARCELOR MITTAL Zenica, Bosnia and Herzegovina	Steel Making Factory Sinter Plant	Refurbishing of Sinter plant automation and instrumentation; Regulation, control, recipe and batch functions for Sinter machines.	2007
U.S. Steel, Smederevo Republic of Serbia	Steel Making plant	Casting rolls speed control Casting machines roll speed control	2007
SCA Spain	Tissue Macine 6	System of control and supervision	2007
MITTAL STEEL, Skopje Republic of Macedonia	Hot Rolling Mill	Two Coiler Mandrel system for hot rolling mill	2007
TK AST Terni Italy	Steel making plant	Vacuum oxygen degassing (VOD) plant automation	2007
Arian Steel Iran	Blooming mill	Blooming stand automation	2007
Hydro power plants DJERDAP d.o.o Serbia	Hydro power plant Djerdap II	Refurbishment of turbine governing and equipement automation	2007
PPC GREECE Greece	TPP Atherinolakkos	DCS control system for boiler, desalination, demiwater, see water pumps, waste water, turbine/generator auxiliaries, electrical system	2007
Elka d.o.o., Croatia	Process lines for copper wire - IZ11 and IZ12	Refurbishment of control equipment and regulated drives	2006
EPS- Electric Power Serbia Republic of Serbia	Surface mining Kostolac	Surface mining and bulk handling equipment automation	2006
Consolidated Engineering Construction Co. (CECC), Qatar for Qatar Petroleum	Liquid Product Berths 3A/3B	Design, supply, delivery, installation, testing, certification and commissioning and integration services for the Telecommunication System	2006
INA Oil Industry, Croatia	Oil refinery Sisak	Power, electrical and instrumentation equipment refurbishment for 5300-EE-5301	2006
Thermal Power Plants & Mines Open coal mine Drmno Kostolac, Serbia	Power supply and transport station B-1400	Design, manufacturing, erection and commissioning of automation and electrical equipment	2006
LIANZHONG Stainless Steel Corp. (LISCO), China	Cold rolling mill Senzimir type	Automation of cold rolling mill and L2 automation software	2006
LIANZHONG Stainless Steel Corp. (LISCO), China	Cold rolling mill Cluster type	Automation of cold rolling mill and L2 automation software	2006
International Steel Rolling Mills, Heliopolis, Egypt	Two Strand Rolling Mill, Sadat City, Egypt	Reconstruction, modernization of electrification and automation, replacement of parts and bringing to operating condition	2006-2007
TISCO steel Tiuyan, China	Hot annealing pickling line	L2 automation software	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Paper mill PM4	Reconstruction, modernization and bringing to operating condition QCS, DCS, multidrives, MCC, machine controls and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Paper mill PM1	Reconstruction, modernization and bringing to operating condition QCS and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Paper mill PM3	Reconstruction, modernization and bringing to operating condition QCS and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Woodyard plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Kamy® digester plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Washing & screening plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007

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Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Evaporation plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Recausticizing plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Lime kiln plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Recovery boiler plant	Reconstruction, modernization and bringing to operating condition DCS, ESD, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Coal boiler plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Chemical water preparation plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
Natron – Hayat d.o.o., Maglaj, Bosnia and Herzegovina	Freshwater preparation plant	Reconstruction, modernization and bringing to operating condition DCS, MCC and instrumentation	2006-2007
TANGGANG Tangshan, China	Skin Pass Mill	L2 modification	2006
Belišće d.d., Croatia	Paper mill PM2	Refurbishment of dryer section of paper machine PM2	2006
TISCO STEEL Beijing, China	Cold annealing pickling line	L2 automation software	2006
Plinacro d.o.o. Croatia	Transmission gas pipeline Zagreb – Sl. Brod	Construction of measuring and reduction station Nova Gradiška and connecting pipeline DN200/75 with shut-off damper including equipment and material	2006
ORNASTEEL Malaysia	Tandem Mill	L2 automation software	2006
Oil refinery Rijeka Croatia	Refinery plant	Generator excitation and protection, systems for measurement, control and supervision, AC/DC supply	2006
VALIN Steel China	Skin Pass Mill	L2 automation software	2006
Packages Ltd Bulleh Shah paper mill Kasur - Lahore, Pakistan	Two layer board machine & stock preparation CTMP plant	Automation software (DCS, HMI) and commissioning	2006
Tianjin Pipe Mill Tianjin, China	Station for redressing machine (cage calibration)	Automation and electrical equipment	2006
JISCO (Jiuhan Steel) China	Cold annealing pickling line	L2 automation software	2006
Port of Rijeka Rijeka, Croatia	Samsung quay cranes	Annual contract on technical cooperation;	2006
Municipality of Povljana, island Pag, Croatia	Water supply	Electrification equipment and works on construction of water supply facility	2006
Plinacro d.o.o. Croatia	Gas pipeline BS Seoce – Nova Kapela DN200/75 & Nova Kapela measuring & reduction station	Automation, instrumentation and power supply design, delivery, erection and commissioning	2006
TPP EL-TO Zagreb, Croatia	City of Zagreb municipal heating system	Refurbishment of automation, instrumentation and electrification	2006
YUSCO Steel Raiwan	Hot annealing pickling line	L2 automation software	2006
SONASID Nador, Marocco	Bar Mill	L2 automation software	2006
U.S. Steel Smederevo, Serbia & Montenegro	Steel making plant	Refining convertor K1, automation and electrical system refurbishment.	2006
SONASID Nador, Marocco	Wire rod mill	Automation and instrumentation of rolling mill	2006
U.S. Steel Smederevo, Serbia & Montenegro	Acid Regeneration Plant	Automation cubicles and instrumentation for acid regeneration	2006
YUSCO Steel Taiwan	Cold annealing pickling line	L2 automation software	2006
U.S. Steel Smederevo, Serbia & Montenegro	Blast furnance BF 1	Automation system design and delivery	2006

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CHE PONT VENTOUX Susa, Italy	Hydroelectrical Power Plant	Turbine generator automation system and regulation Water treatment system Ventilation air conditioning system Power center automation	2006
JISCO (Jiuhan Steel) China	Bar and wire rod mill	L2 automation software	2006
CARTIERA CIACCI, Gualdicciolo, SAN MARINO	Paper mill	Annual contract on technical cooperation; (Based on previous realized project of stock preparation automation and automation of paper machine)	2005
LAMPRE srl Usmate, ITALY	Special steel processing line	Automation of special steel coating line	2005
Plinacro d.o.o. Croatia	Measuring and reduction station Straža	Automation, instrumentation and electrification refurbishment	2005
TISCO Steel Hanoi, VIETNAM	Special steel process line	Automation of special steel processing line	2005
MARCEGAGLIA Ravenna, ITALY	Continuous pickling line	Automation software PLC, HMI	2005
LISCO STEEL COMPANY Guangzhou, CHINA	Special steel process line (Hot Annealing Pickling Line)	Automation software PLC, HMI	2005
BAOXIN STEEL COMPANY Ningbo, CHINA	Special steel process line (Continuous annealing pickling line)	Automation software PLC, HMI	2005
BAOXIN STEEL COMPANY Ningbo, CHINA	Special steel process line (Hot annealing pickling line)	Automation PLC, HMI	2005
BAOSTEEL Shanghai, CHINA	Special steel processing line	Automation of special steel processing line	2005
MISURATA STEEL COMPLEX Misurata, LIBYA	Reduction plant	Automation and software desing	2005
LOYNA paper mill Leipzig , GERMANY	Paper mill Continious paper line	Continuous machine automation Tissue stock preparation	2005
AL SINDIAN Cairo, EGYPT	Paper mill Continious paper line	Machine automation Tissue stock preparation	2005
AL BARDI Cairo, EGYPT	Paper mill Continious paper line	Machine automation Tissue stock preparation	2005
BAOXIN STEEL COMPANY Beijing, CHINA	Cold annealing pickling line	L2 automation software	2005
Plinacro d.o.o. Croatia	Transmission gas pipeline Zagreb – Sl. Brod	Refurbishment and construction of gas measuring and reduction station Kutina	2005
HADEED STEEL COMPANY EL Jubai, SAUDI ARABIA	Melting shop	Software, PLC, VOD; Automation system application software	2005
BAOXIN STEEL COMPANY Beijing, CHINA	Hot annealing pickling line	L2 automation software	2005
BESHAY STEEL COMPANY/GPM Sadat City, EGYPT	Melting shop	Automation application software with L2 software	2005
TATA STEEL Jamshedpur, INDIA	Rebar mill	L2 automation software	2005
BAOSTEEL Shanghai, CHINA	Bar and wire rod mill	Automation of hardware and software design for bar and wire rod mill; entry & exit area automation	2004
AL- ASSAD Khartum, SUDAN	Profile rolling mill	Reheating furnance automation	2004
FERALPI Lonato Riesa, ITALY	Steel bar mill	Automation of software and hardware design of drives control	2004
FERALPI Lonato Brescia, ITALY	Steel bar mill	Automation and software design Automation of drives control	2004



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RIZHAO Steel Co. Ltd Rizhao, China	Profile rolling mill	Automation of finishing line	2004
Elka d.o.o., Croatia	Regal warehouse and sheathing line IT24	Refurbishment of control equipment and regulated drives, L2 on regal warehouse	2004
MEGASTEEL Kuala Lumpur, MALAYSIA	Continuous pickling line	Automation system, hardware and software design,	2005
Plinacro d.o.o. Croatia	Transmission gas pipeline Zagreb – Sl. Brod	Refurbishment of gas measuring and reduction station Zagreb South	2005
DALMINE S.p.A Bergamo, ITALY	Bar and wire rod mill	Automation of drives control	2003
ENEL Fusina, ITALY	Thermo power plant 200 MWA	Automation and software design	2003
ELKA d.d. Zagreb CROATIA	Lubrication plant CS1	Electrical, automation and instrumentation scope of supply	2003
ELKA d.d. Zagreb, CROATIA	Lubrication plant CS2	Electrical, automation and instrumentation scope of supply (design, manufacturing, erection and commissioning)	2003
DE VIVO S.p.A., Potenza, ITALY	Hospital San Carlo	Building management control and regulation system, more than 40000 process points (design, manufacturing and commissioning)	2005
TIANJIN Pipe Cooperation Tianjin, CHINA	Seamless pipe mill	Automation system software design; Cone type piercer controller Mandrell mill controller Strech reducing mill	2003
BAOXIN STEEL COMPANY Ningbo, CHINA	Tension levelling line	Level 2 automation software	2004
SHENDA Shanghai, CHINA	Chemical industry PVC line	Automation of drives control	2003
SHENDA Guangzhou, CHINA	Chemical industry PVC line	Automation of drives control	2003
BAOXIN Ningbo, CHINA	Pickling line	Level 2 automation software: pickling line	2003
BAOXIN Ningbo, CHINA	Ningbo mill	Level 2 automation software	2003
MAERZ Ofenbau AG, Zürich, SWITZERLAND	Lime kiln 200 TPD Gas fired	Electrical, automation and instrumentation scope of supply	2003
EL FAROUK Cairo, EGYPT	Paper mill	Machine automation Stock preparation	2003
CARTIERA CONDINO ITALY	Paper mill	Hood ventilation; Stock preparation	2003
AST TERNI Terni, ITALY	Special steel processing line	Automation of software and hardware design brightening and pickling line	2003
CARTIERA DEL GARDA Riva del Garda, ITALY	Paper mill	Automation of software and hardware design - coating kitchen; Offline coating machine Online coating MC2	2002
CARTIERA FERDIGNONI Varone, ITALY	Paper mill	Automation of hardware design Stock preparation automation.	2002
RENO DI MEDICI, Villa Santa Lucia, ITALY	Paper mill	Stock preparation (screening lines)	2002
CARTIERA I.P.Z.S. Foggia, ITALY	Paper mill	Steam and condensation control and hall ventilation	2002
CARTIERA DI CARMIGNANO Carmignano, ITALY	Paper mill	Coating kitchen New dosing lines	2002
LAMPRE srl Usmate, ITALY	Coating&painting processing line	Automation of coating line	2002
DUFERCO La Louviere, BELGIUM	Steel bar mill	Automation of dedusting plant; Automation of furnaces	2002

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BANDO D'ARGENTA Bando, ITALY	Power plant cogeneration	Boiler automation; Chipwood feeder, turbine, el. filter; Water treatment; Thermal system.	2002
CARTIERA CIACCI, Gualdicciolo, SAN MARINO	Paper mill	Annual contract on technical cooperation; (Based on previous realized project of stock preparation automation and automation of paper machine)	2002
SHOAIBA Jeddah, SAUDI ARABIA	Power plant	Commissioning of gas turbine drive control system with ADVANT 160/450	2002
KOREA IRON&STEEL Co (KISCO) Chang Wong, KOREA	Thermex Rebar Quenching System	Automation of rebar cooling; Water pumps, drives control; Shear, magnetic brakes,	2002
UNITED PAPER INDUSTRY Kuwait, KUWAIT	Paper mill	Automation of stock preparation; Automation of paper machine.	2001
HE KRALJEVAC Omiš, CROATIA	Hydropower plant	Refurbishment of turbine governing, start/stop sequence and synchronizing system (26 MVA generator)	2001
AST Torino, ITALY	Skin pass mill	Automation of drives control; Revamping.	2001.
SKS Shangai, CHINA	Sendzimir mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives control.	2001
SKS Shangai, CHINA	Skin pass mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives & elongation control.	2001
YUSCO Kaohsiung, TAIWAN	Sendzimir mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives control.	2001
YUSCO Kaohsiung, TAIWAN	Skin pass mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives & elongation control.	2001
TLM Sibenik, CROATIA	Aluminium reversible hot rolling mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives control.	2001
TLM Sibenik, CROATIA	Gas fired pusher furnace for reheating and homogenizing of aluminium rolling plant	Automation of furnaces; Coil annealing furnace with protective atmosphere; Slab reheating furnace.	2001
SHOAIBA Jeddah, SAUDI ARABIA	Power plant	Automation of water treatment, demi water; Desalination, circulation water (pump house); Chlorination; Automation of fuel oil system; Automation of ash handling system.	2001
MAE MOH Lampang, THAILAND	Thermal power plant	Automation of flue gas desulphurisation plant for units 4-7	2001
BIOMASSE Italia S.r.l. Crotone, ITALY	Power plant cogeneration	Boiler automation; Chipwood feeder, turbine, el. filter; Water treatment; Thermal system.	2001
SAN MARCO BIOENERGIE Bando d'Argenta, ITALY	Thermal power plant	Turbine automation.	2001
SEGOSA Matamoros, MEXICO	Steel bar mill	Finishing part automation	2000

USER	APPLICATION	PROJECT DELIVERY	YEAR
LAMINAZIONE SOTTILE Casserta, ITALY	Aluminium rolling mill	Level 2 automation system	2000
REYCAN Trois Fleuve, FRANCE	Aluminium universal mill	Automation of drives control	2000
EUROPA METALLI Fornaci di Barga, ITALY	Copper cold rolling mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives control.	2000
AST Terni, ITALY	Processing line	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives & elongation control.	2000
AMBRO Suceava, ROMANIA	Paper mill	Automation of stock preparation; Automation of paper machine	2000
EL PRAT Barcelona, SPAIN	Paper mill	Automation of stock preparation; Automation of paper machine	2000
ABU DHABI Abu Dhabi, UAE	Paper mill	Automation of stock preparation; Automation of paper machine.	2000
PAN Zagreb, CROATIA	Paper mill	Automation of stock preparation; Automation of paper machine.	2000
CARTIERE DI CONDINO Condino, ITALY	Paper mill	Water treatment; Rewinder automation.	2000
VIRTISÙ Aranguren, SPAIN	Paper mill	Automation of tissue paper machine	1999
PIGNA Bergamo, ITALY	Paper mill	Machine automation; Stock preparation automation.	1999
TRONCHETTI Piano di Coreglia, ITALY	Paper mill	Automation of steam paper machine.	1999
PECHINEY Rugle, FRANCE	Aluminium foil mill	Automation of foil mill	1999
LAMINAZIONE SOTTILE Casserta, ITALY	Aluminium rolling mill	Automation and drives control of hot rolling mill	1999
CARTIERA DI CARMIGNANO Carmignano, ITALY	Paper mill	Water treatment; Stock preparation and retiner control.	1999
AZITO Abidjan, COTE D'IVOIRE	Thermal power plant	Automation of compressed air system; Diesel oil system; Natural gas system; Waste water treatment system.	1999
CELOX Bangkok, THAILAND	Paper mill	Tissue machine; Rewinder control.	1999
CIACCI Gualdicciolo, SAN MARINO	Paper mill	Rewinder reconstruction.	1999
VALBRUNA Vicenza, ITALY	Wire rod and bar mill (special steel)	Cooling conveyor automation; Coil forming station; Coil finishing area automation.	1999
ACERINOX Algeciras, SPAIN	Process line	Bright annealing line automation	1999
PIGNA Bergamo, ITALY	Combined power plant	Burner system management system; Thermal system management; Turbine automation; Electric power generation.	1999
JORF LASFAR Morocco, MOROCCO	Thermo power plant	Coal Handling System; Ash handling system.	1999
MAE MOH Bangkok, THAILAND	Thermo power plant	Desulphurisation plant	1999
AMSA Incarceration plant Milano, ITALY	Thermal treatment of urban waste	Burner and boiler system automation and optimization; Dedusting, turbine and generator system supervision and automation	1999

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LISCO Laiwu, CHINA	Wire rod and bar mill	Data acquisition from the base automation; Material tracking for L2.	1999
TLM Sibenik, CROATIA	Aluminium industry cold rolling mill	Automation of cold rolling mill (revamping); Auxiliary systems; Entry & exit area automation; Drives control; AGC system.	1998
DE VIVO Potenza, ITALY	Building management system	Distributed heterogenous control system for supervision and control in large objects (buildings, plants)	1998
BAOYONG Ningbo, CHINA	Process line	Pickling section & drive line automation	1998
HPP KRALJEVAC Omiš, CROATIA	Hydro power plant	Refurbishment of main butterfly valve security automation system	1998
CBA Sao Paolo, BRASIL	Aluminium cold rolling mill	Commissioning of complete mill automation	1998
NUCOR STEEL Berkeley, USA	Saws and straightener	Rolling mill automation	1998
COGNE ACCIAI SPECIALI Aosta, ITALY	Rolling mill TBB and TCC lines	Rolling mill automation	1998
ERMOLLI Moggio Udinese, ITALY	Paper mill	Refiner control	1998
PIGNA Bergamo, ITALY	Paper mil	Automation of paper mill	1998
CARTIERE DEL GARDA Riva del Garda, ITALY	Paper mill	Coating machine automation	1998
CARTIERA CIACCI Galdicciolo, SAN MARINO	Paper mill	Automation of stock preparation and paper machine	1998
CARTIERA DI CARMIGNANO Carmignano, ITALY	Paper mill	Coating kitchen automation	1998
BELISCE Belisce, CROATIA	Paper mill	Automation of approach flow and stock preparation	1998
LUNG CHING Kaoshiung, TAIWAN	Rolling mill finishing line	Removal area automation	1997
NUCOR STEEL Norfolk, NE, USA	High speed shear	Automation of dirves control	1997
BANGKOK-STEEL Bangkog, THAILAND	Rolling mill finishing area	Removal area automation	1997
CARTIERA DEL GARDA Riva del Garda, ITALY	Paper mill	Water treatment system	1997
MOGILNO Mogilno, POLAND	Underground gas storage	Automation of underground gas storage; Shutdown system.	1997
WEBA OIL OPERATION Amal, LIBYA	Tank farm and pump station	Central monitoring and control system	1997
ARCO STEEL Sadat City, EGYPT	Wire rod and bar mill (special steel)	Mill control; Flying shears control; WRFB control; Cooling bed control.	1997
VALBRUNA Vicenza, ITALY	Wire rod and bar mill (special steel)	Mill control; Flying shears control; WRFB control; Cooling bed control.	1997
EKOFISK II Oslo, NORWAY	Oil and gas platform	Part of process control and safety system	1997

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M.W.P.I Sari, IRAN	Paper mill	Automation of drives control	1997
N.A.S. Ghent, Kentucky, U.S.A.	Cold rolling mill	Automation of cold rolling mill.	1997
TES 3 Ulaanbaatar, MONGOLIA	Power plant	Supervision system; Burner management system for 6 boilers (200t); Sootblower control system.	1997
ATICARTA Pompei, ITALY	Paper mill	Automation of stock preparation; Approach flow steam.	1997
ACESITA Timoteo, BRASIL	Sendzimir mill	Automation of cold rolling mill; Auxiliary systems; Entry & exit area automation; Drives control.	1997
HE KRALJEVAC Omiš, CROATIA	Hydro power plant	Refurbishment of turbine governing system (5,3 MVA generator)	1997
HE KRALJEVAC Omiš, Croatia	Hydro power plant	Refurbishment of start/stop automatic sequence (2x26,1x16,1x5,3 MVA generator)	1997
TLM Sibenik, CROATIA	Aluminium industry Rolling mill V-22	Rolling mill automation	1997
PACIFIC STEEL Auckland, NEW ZEALAND	Finishing line	Finishing area and stacker automation	1997
AL EZZ Alexandria, EGYPT	Rolling mill finishing line	Cold shear area automation	1996
THAI STEEL Rayong, THAILAND	Rolling mill finishing line	Removal area automation	1996
SHUNG FUNG Hong Kong, HONG KONG	Rolling mill finishing line	Removal area automation	1996
BHP STEEL Whyalla, AUSTRALIA	Rolling mill finishing line	Automatic control of diverse beam profiles on finishing line	1996
AVESTA SHEFFIELD Avesta, SWEDEN	Stainless steel melting shop	Refining converter for steel purification by argon and oxygen	1996
ANTARA STEEL MILLS Pasir Gudang, MALAYSIA	Rolling mill	Automatic control of stacker	1996
TRONCHETTI (ITC) Piano di Coreglia, ITALY	Paper mill	Automatic control of tissue machine	1996
PACKAGES LTD Lahore, PAKISTAN	Paper mill	Automation of waste paper and preparation; Machine automation.	1996
KARTONSAN Izmit, TURKEY	Paper mill	Automation of approach flow, broke machine, steam. Lubrication, water and vacuum part; Stock preparation.	1996
AVESTA SHEFFIELD Avesta, SWEDEN	Stainless steel finishing line	Continuous hot slab grinding line automation	1996
POSCO P'ohang, KOREA R.	Cluster mill	Automation of cluster mill; Automation of cold rolling mill;	1996
ANSDK Alexandria, EGYPT	Wire rod mill	Hook conveyor automation; Compacting machine automation.	1996
TIREKUTSAN Tire, TURKEY	Paper mill	Tube boiler automation	1996
TIREKUTSAN Tire, TURKEY	Paper mill	Machine automation; Stock preparation automation.	1996
CELULOSE DO CAIMA Constancia, PORTUGAL	Pulp factory	Automation of pulp machine	1996
ANTARA STEEL MILLS, Pasir Gudang, MALAYSIA	Rolling mill	Automatic control of blooming mill and finishing area	1995
HABASH - 2, Izmir, TURKEY	Wire rod mill	Mill control; Flying shears control; WRFB control.	1995

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CEBITAS, Izmir, TURKEY	Rod bar mill	Mill control; Flying shears control; BSL control; Cooling bed control; Dividing length optimisation.	1995
NISCO, Esfahan, IRAN	Wire rod and bar mill	Mill control; Flying shears control; WRFB control; Cooling bed control.	1995
ESF-FERALPI, Riesa, GERMANY	Bar and rod mill	Mill control; Flying shears control; Cooling bed control.	1995
AVESTA SHEFFIELD, Avesta, SWEDEN	Stainless steel melting shop	Automatic control of stainless steel melting shop; Dedusting plant.	1995
CARTIERE DEL GARDA, Riva del Garda, ITALY	Paper mill	Automatic control of continuous paper production line	1995
CARTIERE DEL GARDA, Riva del Garda, ITALY	Paper mill	Automation of coating kitchen	1994
RST, Firenza, ITALY	Urban waste proccession	Control system for compost production from urban waste	1994
SIAM YAMATO, Rayong, THAILAND	Rolling mill	Automatic control of H-bearn finishing line	1994
COURTICE STEEL, Cambridge, CANADA	Rolling mill	Software adaptation to the new machines on the line; Software adaptation to new PLC for the finishing part.	1994
AL KHALEEY, Dubai, U.A.E.	Sugar rafinery	Automatic control of sugar rafinery	1994
PERONI, Padova, ITALY	Beer production	Control system for water towers cooling in fermentation plant	1993
NGL PLANT, Buattiffi, LIBYA	Natural gas liquid recovery plant	Control of gas drying and purification plant (NGL)	1993
ENICHEM, Mantova, ITALY	Chemical Industry	Polystirole production control	1992
ENICHEM, Ferrara, ITALY	Chemical Industry	Automation of pilot plant for high density polyethylene	1992
HABASH, Izmir, TURKEY	Rolling mill	Control and supervisory system One production line mill control; Flying shears control; BSL control; Cooling bed control; Dividing length optimisation.	1992
INSIG, Ahwaz, IRAN	Rolling mill	Hot rolling mill supervisory; Control system for five production lines for bars&wires.	1992
IDC, Izmir, TURKEY	Rolling mill	Control and supervisory system; Two production lines.	1991
ILVA, Taranto, ITALY	Steel industry	Air compressor station control system	1991
MSC, Mobarakeh, IRAN	Meltshop	Automation application software	1990



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