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# STEEL

## REFERENCE LIST

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# MELTSHOP

# SCRAP YARD TECHNOLOGICAL PACKAGES

# MELTSHOP

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolySCRAP Technological Package for scrap yard management	Riva Forni Elettrici   SAM Neuves Maisons	France	2016

# CRANE TECHNOLOGICAL PACKAGES

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Remote control station for crane operations with full mastery of the 80 meter high crane	ArcelorMittal Italy	Italy	in progress
PolyCRANE Technological Package for crane in EAF loading area	Gerdau   Petersburg	USA	2017
Revamping of automation equipment and software for ladle transfer crane	Sama S.r.l.   Duferdofin-Nucor	Italy	2013
PolyCRANE Technological Package EAF charge crane	Sama S.r.l.   Riva Forni Elettrici SAM Neuves Maisons	France	2012
PolyCRANE Technological Package for crane in continuous casting evacuation area	Riva Forni Elettrici   SAM Neuves Maisons	France	2011
PolyCRANE Technological Package for crane in EAF loading area	Riva Forni Elettrici   SAM Montereau	France	2011

# BLAST FURNACE TECHNOLOGICAL PACKAGES

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
ActiveCAST Iron Technological Package for blast furnace cast iron's temperature measurement	ArcelorMittal Italy	Italy	in progress

# EAF TECHNOLOGICAL PACKAGES

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolySLAG Technological Package for slag detection	AST Terni	Italy	in progress
PolySLAG Technological Package for slag detection	AST Terni	Italy	in progress
PolySLAG Technological Package for slag detection	Gerdau   Whitby	Canada	2019
PolySLAG Technological Package for slag detection	Gerdau   Petersburg	USA	2018
PolySLAG Technological Package for slag detection	Duferdofin Nucor	Italy	2013

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Ternium	Mexico	in progress
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Ternium	Mexico	in progress
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Tenova   Nippon Steel	Japan	in progress
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Tenova   JSW Mingo	USA	in progress
PolySAMPLE EAF Semi-automatic EAF furnace sampling and measurement cell with oxygen torch tool and automatic ladle sampling after tapping	Acciaierie Valbruna	Italy	2020
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Alfa Acciai	Italy	2020
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Tenova   Shandong Laigang Yongfeng Steel Corporation	China	2019
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Tenova   Shandong Laigang Yongfeng Steel Corporation	China	2019
PolySAMPLE EAF Manual loading cell for EAF furnace sampling and measurement	Tenova   Ural Steel	Russia	2019
PolySAMPLE EAF Manual loading cell for EAF furnace sampling and measurement	Tenova   Ural Steel	Russia	2019
PolySAMPLE EAF Full automatic cell for EAF furnace and PolyEYE 360° view Cameras after tapping	Tenova   ORI Martin	Italy	2018
PolySAMPLE EAF Full automatic cell for EAF furnace and PolyEYE 360° view Cameras after tapping	Tenaris   Tamsa	Mexico	2018
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Acciaieria Arvedi	Italy	2017

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
PolySAMPLE EAF Manual loading cell for EAF furnace sampling and measurement	Beltrame Group   LME	France	2017
PolySAMPLE EAF Full automatic cell for EAF furnace and PolyEYE 360° view Cameras after tapping	Gerdau   Petersburg	USA	2016
PolySAMPLE EAF Manual loading cell for EAF furnace sampling and measurement	Acciaieria Arvedi	Italy	2016
PolySAMPLE EAF Manual loading cell for EAF furnace sampling and measurement	SIJ Metalravne	Slovenia	2015
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Tenaris   Tamsa	Mexico	2014
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   ALPA	France	2014
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   Thy Marcinelle	Belgium	2012
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   SISE	Spain	2012
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   Iton Seine	France	2011
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   SISE	Spain	2010
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   ALPA	France	2009
PolySAMPLE EAF Full automatic cell for EAF furnace sampling and measurement	Riva Forni Elettrici   SAM Neuves Maisons	France	2008

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyEYE 360° view Cameras after tapping	Acciaieria Arvedi	Italy	2020

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyEBT Robotic cell for the semi-automatic removal of any obstruction of EBT in an arc furnace	Tenova   Nippon Steel	Japan	in progress
PolyEBT Robotic cell for the semi-automatic removal of any obstruction of EBT in an arc furnace	Gerdau   Aracariguama Sao Paolo	Brazil	2020
PolyEBT Robotic cell for the semi-automatic removal of any obstruction of EBT in an arc furnace	CMC Florida	USA	2018
PolyEBT Robotic cell for the semi-automatic removal of any obstruction of EBT in an arc furnace	Riva Forni Elettrici   Thy Marcinelle	Belgium	2018
PolyEBT Robotic cell for the semi-automatic removal of any obstruction of EBT in an arc furnace	Riva Forni Elettrici   Verona	Italy	2016
PolyEBT Robotic cell for the semi-automatic removal of any obstruction of EBT in an arc furnace	Riva Forni Elettrici   SISE	Spain	2012

## LABORATORY ROBOTICS

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyLAB Robotic cell for fully automated analysis of samples	Gerdau   Petersburg	USA	2019
PolyLAB Robotic cell for fully automated analysis of samples	Riva Forni Elettrici   SAM Neuves Maisons	France	2013

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
Upgrade and virtualization of HMIs, SCADA, L.2 Meltshop and Rolling Mill	Riva Forni Elettrici   SISE	Spain	2020
Revamping of automation equipment and software for furnace	Riva Forni Elettrici   Iton Seine	France	2005



SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	ORI Martin	Italy	in progress
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	ORI Martin	Italy	in progress
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Villares Metals	Brazil	in progress
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Celsa	Spain	in progress
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Tenaris   Silcotub	Romania	in progress
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Tenaris   Silcotub	Romania	in progress
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	AFV Beltrame	Italy	2019
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Villares Metals	Brazil	2019
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Villares Metals	Brazil	2018
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Riva Forni Elettrici   Verona	Italy	2016
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	MMK	Russia	2016
PolySAMPLE LF Full automatic cell for LF furnace sampling, measurement with steel level measurement	Riva Forni Elettrici   BES	Germany	2013
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Riva Forni Elettrici   Verona	Italy	2012
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Riva Forni Elettrici   SAM Montereau	France	2012
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Riva Forni Elettrici   Iton Seine	France	2011
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Riva Forni Elettrici   Thy Marcinelle	Belgium	2011
PolySAMPLE LF Full automatic cell for LF furnace sampling and measurement	Riva Forni elettrici   SAM Neuves Maisons	France	2010

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolySAMPLE RH HYDRIS Full automatic cell for RH station, sampling, measurement, hydris measurement	ArcelorMittal   Bremen	Germany	in progress
PolySAMPLE Robotized cell for liquid iron / Hot Metal measurement at deslagging station	ArcelorMittal   Bremen	Germany	in progress
PolySAMPLE Robotized cell for liquid iron / Hot Metal measurement at deslagging station	ArcelorMittal   Bremen	Germany	in progress
PolySAMPLE RH HYDRIS Full automatic cell for RH station, sampling, measurement, hydris measurement	ArcelorMittal   Dunkerque	France	in progress

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyCLEAN Full automatic cell for cartridge, cutting and opening	ArcelorMittal   Dunkerque	France	2020
PolyCLEAN Full automatic cell for cartridge, cutting and opening	Riva Forni Elettrici   BES	Germany	2016
PolyCLEAN Full automatic cell for cartridge, cutting and opening	Riva Forni Elettrici   SAM Neuves Maisons	France	2015

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyLADLE Ladle sliding gate maintenance robotic cell	ArcelorMittal Italy	Italy	2021

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
Automation, equipment and software for vod system	Tenova   NLMK Verona	Italy	in progress
Automation, equipment and software for vd/vod system	SMS Innse S.p.A.   Metalravne	Slovenia	2015
Automation, equipment and software for dedusting filter system	SMS Innse S.p.A.   Metalravne	Slovenia	2015
ActiveARC Technological Package for LF furnace with electrodes regulation	SMS Innse S.p.A.   Metalravne	Slovenia	2015
Automation equipment and software for alloy handling system in LF Furnace	SMS Innse S.p.A.   Metalravne	Slovenia	2015
ActiveARC Technological Package for LF furnace with electrodes regulation	Sama S.r.l.   Duferdofin-Nucor	Italy	2013
ActiveARC Technological Package for LF electrodes furnace	Riva Forni Elettrici   SISE	Spain	2012

# CONTINUOUS CASTING ROBOTICS

# MELTSHOP

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyCAST Multi tool robotic cell for continuous casting machines	Gerdau   Midlothian	USA	in progress
PolyCAST Multi tool robotic cell for continuous casting machines	Ugitech	France	2017
PolyCAST Multi tool robotic cell for continuous casting machines	AFV Beltrame	Italy	2016

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyTAG BLE Robotic cell for billets tagging	Scaw Metals Group	South Africa	in progress
PolyTAG BLE Robotic cell for billets tagging	Tenaris   Koppel	USA	in progress
PolyTAG BLE Robotic cell for billets tagging	Cemtas Celik Makina Sanay VE Ticaret AS	Turkey	in progress
PolyTAG BLE Robotic cell for hot billets tagging - SBQ mill	Gerdau   Monroe	USA	in progress
PolyTAG BLE Robotic cell for hot billets tagging and PolySHAPE dimensional control of billets/slabs/bloom	Riva Forni Elettrici   HES	Germany	2020
PolyTAG BLE Robotic cell for billets tagging	Optimus Steel	USA	2020
PolyTAG BLE Robotic cell tagging no weldable steel	Cogne Acciai Speciali	Italy	2020
PolyTAG BLE Robotic cell for billets tagging	Feralpi   Calvisano	Italy	2020
PolyTAG BLE Robotic cell for billets tagging	AFV Beltrame	Italy	2020
PolyTAG BLE Robotic cell for hot billets tagging and PolySHAPE dimensional control of billets/slabs/bloom	Gerdau   Cartersville	USA	2019

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
PolyTAG BLE Robotic cell for billets tagging	CMC New Jersey	USA	2018
PolyTAG BLE Robotic cell for billets tagging	Tenaris   Dalmine	Italy	2018
PolyTAG BLE Robotic cell for billets tagging	Gerdau   Midlothian	USA	2017
PolyTAG BLE Robotic cell for billets tagging	Tenaris   Calarasi	Romania	2017
PolyTAG BLE Robotic cell for billets tagging	Gerdau   Petersburg	USA	2016
PolyTAG BLE Robotic cell for billets tagging	Duferdofin Nucor	Italy	2016
PolyTAG BLE Robotic cell for billets tagging	Duferdofin Nucor	Italy	2016
PolyTAG BLE Robotic cell for billets tagging	ORI Martin	Italy	2016
PolyTAG BLE Robotic cell for billets tagging	Feralpi   Lonato	Italy	2015
PolyTAG BLE Robotic cell for billets tagging	Riva Forni Elettrici   Caronno	Italy	2015
PolyTAG BLE Robotic cell for billets tagging	Feralpi   Calvisano	Italy	2015
PolyTAG BLE Robotic cell for billets tagging	Riva Forni Elettrici   Thy Marcinelle	Belgium	2014
PolyTAG BLE Robotic cell for billets tagging	Riva Forni Elettrici   SAM Neuves Maisons	France	2014
PolyTAG BLE Robotic cell for billets tagging	Riva Forni Elettrici   Lesegno	Italy	2013

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
PolyMARK Robotic cell for paint jet marking of flat products	Ilva S.p.A.	Italy	2007

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Upgrade and virtualization of all HMIs, SCADA and Level 2 for the Meltshop, continuous casting machine and rolling mill	Riva Forni Elettrici   SISE	Spain	2020
Revamping of automation equipment and software for continuous casting billets evacuation line	Sama S.r.l.   Riva Forni Elettrici Caronno	Italy	2018
Continuous Casting Automation revamping and Process Control (ActiveCAST)	Duferdofin-Nucor Travi e Profilati Pallanzeno S.r.l.	Italy	2015
Continuous Casting Automation revamping and Process Control (ActiveCAST)	Sama S.r.l.   ArcelorMittal	Poland	2012
Continuous Casting Automation revamping and Process Control (ActiveCAST)	Tenaris   Dalmine	Italy	2012

## TRACKING

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Production Tracking on Continuous Casting Evacuation	Optimus Steel	USA	in progress
Tracking & Level 2 Automation System for Continuous Casting	Duferdofin-Nucor Travi e Profilati Pallanzeno S.r.l.	Italy	2015
Production Tracking on Continuous Casting Evacuation	Riva Forni Elettrici   Lesegno	Italy	2013



# ROLLING MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyREAD System for Tag reading on billets before RHF	Ferrosider   OriMartin	Italy	in progress
PolyREAD System for Tag reading on billets before RHF	Cemtas	Turkey	2020
PolyREAD System for Tag reading on billets before RHF	Riva Forni Elettrici   Cerveno	Italy	2019
PolyREAD System for Tag reading on billets before RHF	Feralpi   Lonato	Italy	2018
PolyREAD System for Tag reading on billets before RHF	Feralpi   Lonato	Italy	2018
PolyREAD System for Tag reading on billets before RHF	Gerdau   Midlothian	USA	2018
PolyREAD System for Tag reading on billets before RHF	Riva Forni Elettrici   Cerveno	Italy	2018
PolyREAD System for Tag reading on billets before RHF	Riva Forni Elettrici   HES	Germany	2018
PolyREAD System for Tag reading on billets before RHF	Riva Forni Elettrici   Thy Marcinelle	Belgium	2018
PolyREAD System for Tag reading on billets before RHF	ORI Martin	Italy	2017
PolyREAD System for Tag reading on billets before RHF	Feralpi   Lonato	Italy	2017
PolyREAD System for Tag reading on billets before RHF	CMC New Jersey	USA	2017
PolyREAD System for Tag reading on billets before RHF	Riva Forni Elettrici   SAM Neuves Maisons	France	2014



SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyTAG FC Robotic cell for bundle bars tagging	Riva Forni Elettrici   BES	Germany	in progress
PolyTAG FC Robotic cell for bundle bars tagging	Nucor   Sedalia	USA	2020
PolyTAG FC Robotic cell for bundle bars tagging	ORI Martin	Italy	2019
PolyTAG FC Robotic cell for bundle bars tagging	Megasa   Megasider	Spain	2019
PolyTAG FC Robotic cell for bundle bars tagging	Megasa   Megasider	Spain	2019
PolyTAG FC Robotic cell for bundle bars tagging	Riva Forni Elettrici   SISE	Spain	2019
PolyTAG FC Robotic cell for bundle bars tagging and PolySHAPE dimensional control system	Gerdau   Cambridge	Canada	2019
PolyTAG FC Robotic cell for bundle bars tagging and PolyCOUNT bars counting system	Gerdau   Jackson	USA	2018
PolyTAG FC Robotic cell for bundle bars tagging and PolySHAPE dimensional control system	Gerdau   Midlothian	USA	2018
PolyTAG FC Robotic cell for bundle bars tagging	Megasa   Maia	Spain	2017
PolyTAG FC Robotic cell for bundle bars tagging	Feralpi   Lonato	Italy	2016
PolyTAG FC Robotic cell for bundle bars tagging	Riva Forni Elettrici   HES	Germany	2014
PolyTAG FC Robotic cell for bundle bars tagging	Riva Forni Elettrici   ALPA	France	2013
PolyTAG FC Robotic cell for bundle bars tagging	Riva Forni Elettrici   Iton Seine	France	2009

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
PolyTAG V Wire rods internal/external tagging robot	Riva Forni Elettrici   HES	Germany	in progress
PolyTAG V Wire rods internal/external tagging robot	Riva Forni Elettrici   HES	Germany	in progress
PolyTAG V Wire rods internal/external tagging robot	ORI Martin	Italy	in progress
PolyTAG V Wire rods internal/external tagging robot	Riva Forni Elettrici   SAM Neuves Maisons	France	2011

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
PolyWASH Robotized cell for rolling stands washing	Tenaris   Tamsa	Mexico	2016
PolyWASH Robotized cell for rolling stands washing	Tenaris   Tamsa	Mexico	2016

# LONG AUTOMATION

# ROLLING MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
New auxiliary single drives for rolling mill	Gerdau   Petersburg	USA	2020
Automation upgrade roughing mill stands	Gerdau   Petersburg	USA	2020
DC/AC conversion of the intermediate rolling mill stands motors	Riva Forni Elettrici   Montereau	France	2020
Rolling Mill Automation revamping and Regulation system (ActiveROLL)	Riva Forni Elettrici   Lesegno	Italy	2019
Rolling Mill Automation revamping and Regulation system (ActiveROLL)	Feralpi   Nave	Italy	2019
Automation for bars mill	Inteco	Bulgaria	2017
ActiveROLL Technological Package for rolling mill	Riva Forni Elettrici   HES	Germany	2017
Rolling Mill Automation revamping and Regulation system (ActiveROLL)	Lagunartea	Spain	2012
Rolling Mill Automation revamping and Regulation system (ActiveROLL)	Riva Forni Elettrici   Lesegno	Italy	2011
Drive equipment and software parameters optimization for rolling stands	Riva Forni Elettrici   Thy Marcinelle	Belgium	2011
Rolling Mill Automation revamping and Regulation system (ActiveROLL)	Riva Forni Elettrici   SISE	Spain	2009
Rolling Mill Automation revamping and Regulation system (ActiveROLL)	Riva Forni Elettrici   SISE	Spain	2008
Revamping of drive equipment and software for straightener PLA2	Ilva S.p.A.	Italy	2007

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
MV/LV Drives upgrade	Riva Forni Elettrici   Thy Marcinelle	Belgium	2020

# LONG AUTOMATION

# ROLLING MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
ActiveHEAD Technological Package for head outcoming adjustment system to laying head	Riva Forni Elettrici   BES	Germany	2014

# TRACKING

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Production Tracking on Beams Storage	Riva Forni Elettrici   Malegno	Italy	2018
Production Tracking on Beams Storage	Riva Forni Elettrici   HES	Germany	2017
Production Tracking on Billets Yard	Riva Forni Elettrici   Thy Marcinelle	Belgium	2014

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
Tracking & Level 2 Automation System for Rolling Mill	ORI Martin	Italy	in progress
Production Tracking on Rolling Mill	Riva Forni Elettrici   Thy Marcinelle	Belgium	2018
Production Tracking on Rolling Mill	Riva Forni Elettrici   Cerveno	Italy	2017
Production Tracking on Rolling Mill	Riva Forni Elettrici   Thy Marcinelle	Belgium	2017
Tracking & Level 2 Automation System for Rolling Mill	Riva Forni Elettrici   BES	Germany	2015
Production Tracking on Rolling Mill	ORI Martin	Italy	2014
Production Tracking on Rolling Mill	Riva Forni Elettrici   BES	Germany	2012
Production Tracking on Rolling Mill	Riva Forni Elettrici   Lesegno	Italy	2012
Production Tracking on Rolling Mill	Riva Forni Elettrici   Iton Seine	France	2009

# FLAT ROBOTICS

# ROLLING MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyDESTRAPPING Destrapping robotized cell	Mair   Nucor Tubular Products Trinity	USA	in progress

# FLAT AUTOMATION

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
New drive cabinets, PLC cabinets, new PLC and HMI SW, electrical erection, commissioning FNA plant	Ilva S.p.A.	Italy	2017
Cutting line modernization	Riva Forni Elettrici   ST Wandrille	France	2011
Slitter line modernization	Ilva S.p.A.	Italy	2009
Automation upgrade combustion control system for 250 tons/hour reheating furnace for slabs	Ilva S.p.A.	Italy	2007
Revamping of drive equipment and software for straightener	Ilva S.p.A.	Italy	2007

# FLAT AUTOMATION FOR EQUIPMENT SUPPLIER

# ROLLING MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Automation equipment and software for straightener, leveller and shear&cutting station	FIMI   Daming	China	2018
Automation equipment and software for straightener, leveller and shear&cutting station	FIMI   Daming	China	2018
Machines' upgrade for straightener, leveller and cutting station	FIMI   Ferona	Slovakia	2017
Machine upgrade for straightener, leveller and shear&cutting station	FIMI   Ferona	Czech Republic	2017
Machine upgrade for straightener, leveller and shear&cutting station	FIMI   Ferona	Slovakia	2017
Automation equipment and software for straightener	FIMI   Laura Metaal	Holland	2017
Automation equipment and software for straightener, leveller and shear&cutting station	Sacma S.p.A.   CSN	Brazil	2013
Automation equipment and software for alloy handling system	SMS Innse S.p.A.   Metalravne	Slovenia	2013
Automation equipment and software for straightener, leveller and shear&cutting station	Sacma S.p.A.   Ivanar	Argentina	2012

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Automation equipment and software for beams handling	CMV Costruzioni Meccaniche Valentini   S.p.A. Riva Forni Elettrici HES	Germany	2015

# GALVANIZING LINES ROBOTICS

# ROLLING MILL

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
Zinc block handling machine	Zekelman   Wheatland	USA	2019
Zinc block handling machine	Zekelman   Wheatland	USA	2019
Zinc block handling machine	Zekelman   Wheatland	USA	2019
Zinc block handling machine	Zekelman   Wheatland	USA	2019
Robotic cell for zinc block sinking and zinc dross removal on HDGL	ArcelorMittal   Amp	Poland	2016





# TUBE MILL

# TUBE MILL ROBOTICS

# TUBE MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyMAN Robotic cell for application and pre-screwing of couplings in API line	Tenaris   Saudi Arabia LTD	Saudi Arabia	2017
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Tamsa	Mexico	2016
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Tamsa	Mexico	2016
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Tamsa	Mexico	2016
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Tamsa	Mexico	2015
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Tamsa	Mexico	2015
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Silcotub	Romania	2014
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Siderca	Argentina	2014
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Tamsa	Mexico	2014
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Silcotub	Romania	2013
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Silcotub	Romania	2013
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Dalmine	Italy	2011
PolyMAN Robotic cell for application and pre-screwing of couplings on the finished product evacuation line	Tenaris   Dalmine	Italy	2011

<b>SOLUTION</b>	<b>CUSTOMER   SITE</b>	<b>COUNTRY</b>	<b>YEAR</b>
PolyPRO Robotic cell for screwing protectors in API line	Tenaris   Silcotub	Saudi Arabia	2018
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Silcotub	Romania	2018
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2017
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2016
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2016
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2016
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2015
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2015
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2014
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Tamsa	Mexico	2014
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Silcotub	Romania	2014
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Siderca	Argentina	2013
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Silcotub	Romania	2013
PolyPRO Robotic cell for screwing protectors on tube in OCTG line	Tenaris   Silcotub	Romania	2013
PolyPRO Robotic cell for application of tube caps on the finished product evacuation line	Tenaris   Dalmine	Italy	2011

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyGREASE Robotic cell for the application of tube lubrication API line	Tenaris   Silcotub	Romania	2018
PolyGREASE Robotic cell for the application of tube lubrication API line	Tenaris   Saudi Arabia LTD	Saudi Arabia	2018
PolyGREASE Robotic cell for the application of tube lubrication API line	Tenaris   Saudi Arabia LTD	Saudi Arabia	2017
PolyGREASE Robotic cell for the application of tube lubrication	Tenaris   Tamsa	Mexico	2016
PolyGREASE Robotic cell for the application of tube lubrication	Tenaris   Tamsa	Mexico	2016
PolyGREASE Robotic cell for the application of tube lubrication	Tenaris   Silcotub	Romania	2015
PolyGREASE Robotic cell for the application of tube lubrication	Tenaris   Silcotub	Romania	2014

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyBRUSH Robotic cell for tube cleaning in heat treatment	Tenaris   Tamsa	Mexico	2015
PolyBRUSH Robotic cell for tube cleaning in heat treatment	Tenaris   Tamsa	Mexico	2015

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyOCR Robotic cell for tube marking and ocr reading	Tenaris   Tamsa	Mexico	2014
PolyOCR Robotic cell for tubes marking and ocr reading	Tenaris   Tamsa	Mexico	2014

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyTAG T Robotic cell for bundle of tube	Arvedi Tubi Acciaio S.p.A.	Italy	2014

# TUBE MILL ROBOTICS

# TUBE MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyMOVE M Robotic cell for uploading/unloading of couplings on phosphating line	Tenaris   Silcotub	Romania	2019
PolyMARK M Robotic cell for couplings marking	Tenaris   Tamsa	Mexico	2015
PolyMOVE M Robotic cell for couplings' handling	Tenaris   Tamsa	Mexico	2015
PolyMOVE M Robotic cell for magnetic control of couplings	Tenaris   Tamsa	Mexico	2015
PolyMOVE M Robotic cell for couplings' handling	Tenaris   Tamsa	Mexico	2014
PolyMOVE M Robotic cell for magnetic control of couplings	MMK	Russia	2014

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyPAINT Cell specifically built for tube threading coating	Tenaris   Tamsa	Mexico	2016
PolyPAINT Cell specifically built for tube threading coating	Tenaris   Tamsa	Mexico	2016
PolyPAINT Cell specifically built for tube threading coating	Tenaris   Tamsa	Mexico	2016
PolyPAINT Cell specifically built for tube threading coating	Tenaris   Silcotub	Romania	2014
PolyPAINT Cell specifically built for tube threading coating	Tenaris   Silcotub	Romania	2014
PolyPAINT Cell specifically built for tube threading coating	Tenaris   Silcotub	Romania	2014

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
PolyBUNDLE 4" Tube bending cell for steel and aluminium elbows productions	Zekelman   Picoma	USA	2020
PolyBUNDLE Robotized cell for the automatic bundling of conduits	Zekelman   Wheatland	USA	2019

# TUBE MILL AUTOMATION

# TUBE MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Revamping of automation equipment and software OCTG3 line	Tenaris   Dalmine	Italy	2011

# TUBE MILL AUTOMATION FOR ERW TUBE MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Automation Systems Supply for the new greenfield 18" ERW Tube Mill	SMS group   Padana Tubi	Italy	in progress
Automation Systems Supply for the new greenfield 28" ERW Tube Mill	SMS   Atlas Tube   Zekelman Industries	USA	in progress
Revamping of automation equipment and software for ERW tube mill	Ilva S.p.A.	Italy	2010

# TUBE MILL AUTOMATION FOR EQUIPMENT SUPPLIER

# TUBE MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Automation equipment and software for flying cut-off	MTM Italia   Priefert	USA	in progress
Automation equipment and software with motion control for flying cut-off (double blade 10")	Meccanica Adda fer S.r.l.   Tumesa Tubos del Mediterraneo	Spain	2016
Automation equipment and software with motion control for flying cut-off and automation of pipe mill	Meccanica Adda fer S.r.l.   Nguyen Minh Steel Group	Vietnam	2013
Automation equipment and software with motion control for flying cut-off and automation of pipe mill	Meccanica Adda fer S.r.l.   Agrisovgaz	Russia	2013
Automation equipment and software with motion control for flying cut-off (double blade 10")	Meccanica Adda fer S.r.l.   Agrisovgaz	Russia	2012
Automation equipment and software with motion control for flying cut-off and automation of pipe mill	Meccanica Adda fer S.r.l.   Agrisovgaz	Russia	2012

# TUBE MILL AUTOMATION FOR TUBE HANDLING

# TUBE MILL

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Autonetics handling automation upgrade	Tenaris   Algoma	Canada	2018
Automation equipment and software for tube handling	Tenaris   Tamsa	Mexico	2014
Automation equipment and software for tube handling	Tenaris   Tubo Caribe	Colombia	2013

# TUBE MILL AUTOMATION FOR EQUIPMENT SUPPLIER

SOLUTION	CUSTOMER   SITE	COUNTRY	YEAR
Automation equipment and software for automatic spool and unspool of coiled tubes	CMV Costruzioni Meccaniche Valentini   S.p.A. Tenaris Bay City	USA	2017
Automation equipment and software for automatic spool and unspool of coiled tubes	CMV Costruzioni Meccaniche Valentini   S.p.A. Tenaris Bay City	USA	2016
Automation equipment and software for cosmetics and coating handling	CMV Costruzioni Meccaniche Valentini   S.p.A. Tenaris Bay City	Mexico	2015
Automation equipment and software for tube handling	CMV Costruzioni Meccaniche Valentini   S.p.A. Tenaris Bay City	Argentina	2013





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