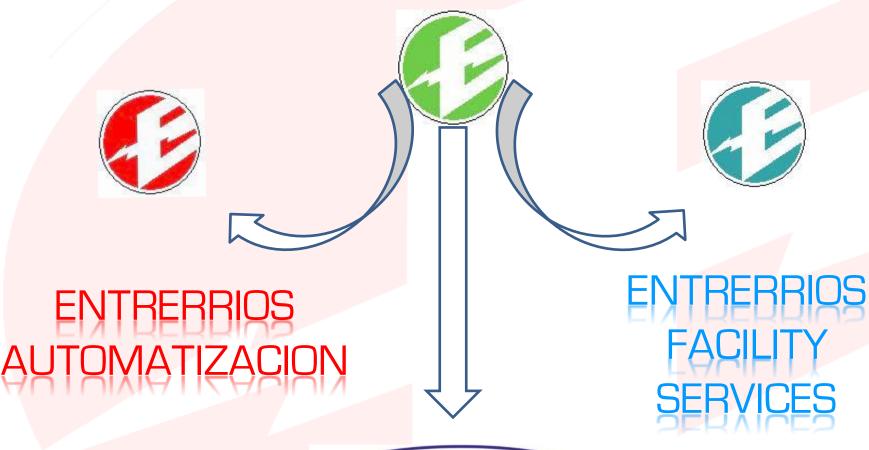
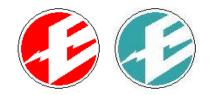
ENTRERRIOS GROUP









INTRODUCTION

Entrerríos Group is a leader group and a reference in the industrial facilities sector, both nationally and internationally, which brings together three companies, Entrerríos Automatización S.A. (industrial automation and electric installations, both LV and HV), Entrerríos Facility Services S.A. and Geyselmain S.L.(maintenance, installations of fluids, communication networks, civil work, movement of machinery, etc...); Entrerríos Group proved its efficiency and experience accomplishing projects of great scope for companies such as Opel, Volkswagen, SEAT, CAF, INDITEX, CLH, PSA, Grupo Renault-Nissan, Ford, etc..., Entrerríos Group is working with them since 1986 with an around 250 people staff.

Entrerríos Automatización, Entrerríos Facility Services y Geyselmain are strategically defined companies to generate complete solutions in projects, installations and maintenance, offering quality, warranty and fastness; putting at the disposal of its customers all their resources, personnel and infrastructure, and of course keeping as priority the safety and ethics at work.

In order to earn the **TRUST** of our **CLIENTS** our company has a global and flexible organization that is able to offer a customized service to suit every need; taking advantage of all our potential for the benefit of an optimal management, for both small and large projects.









AUTOMATION

- Fingineering, design, manufacturing, assembly and start up for an optimal automation
- Supply and programming of leading PLC brands: Siemens, Bosch, Schneider Electric, Moeller, Omron, Rockwell (Allen Bradley), General Electric
- Operating, programming and simulation of robots
- SCADA Systems (WinCC de Siemens / Intouch de Wonderware / Monitor Pro de Schneider / Proficy Cimplicity de General Electric ...)

ELECTRICAL ASSEMBLIES

- > Indoor and outdoor lighting
- > Supply and assembly of control and power electrical panels
- > Electrical installation: Control and power wiring and connecting
- Ground and aerial conveyors
- Figh Voltage installations
- Adequacy of safety in machinery and equipment according to Real Decreto 1215/97
- > **ATEX** Installations in areas with high risk of explosion
- > Photovoltaic installations

FLUID MECHANICS

- Heating, ventilation and air conditioning systems
- > Waste waters systems
- Collecting and pumping water systems
- Fire prevention systems
- Installations and nets of fluids (Water, gas, steam, compressed air and water cooling)

EPC

- Turnkey projects:
- Engineering
- Civil Works
- Mechanics
- Installations
- > Etc....





ACTIVITIES



COMMUNICATIONS

ARTIFICIAL VISION AND TRACEABILITY

MAINTENANCE

MECHANICS

- ➤ Installation, wiring and fiber optic certification
- ➤ Industrial communication **networks** (Ethernet, Profibus, Profinet / etc ...)
- ➤ Industrial identification and **marking**
- > Code reading
- > Optical control with artificial vision
- Software for integral management of the traceability

- > Continuous productive maintenance service
- **Continuous** electrical maintenance service, software, SCADA, nets, PLCs, etc
- > Continuous mechanical maintenance service
- > Continuous civil works service
- **Continuous** cleaning services, both technical and ordinary.

- Fingineering and design: CAD 3D, CAM y CAE.
- Machining
- Special machinery
- > Metallic structures
- > Tools
- > Metal works
- Movement of machinery
- Dismantling of production lines







Entrerríos Group develops works in the main sectors of society and important companies, inside and outside the industry, distributed in diverse sectors, such as:

SECTOR

- **AUTOMOBILE**
- **CONSTRUCTION**
- **LOGISTICS**
- **COMMUNICATIONS**
- **MACHINERY MANUFACTURERS**
- **PHOTOVOLTAIC INSTALLATIONS**
- **PUMPING UNITS**
- **PETROCHEMICAL**

INDUSTRY

- **GLASS**
- **TEXTIL**
- **MINING**
- **PAPER**
- **METALLURGICAL**
- **PROCESSING**
- CHEMICAL
- **FOOD**
- **BODYWORK**
- **PHARMACEUTICAL**
- OIL & GAS







AUTOMOBILE

OPEL, PSA, Stellantis		ArcelorMitta	l Tailored Blank	
SEAT		KIRCHHOFF	España	
Grupo Volkswagen		LEAR Corpor	ration Asientos	
Valeo		Mcsyncro Fra	ance	
FORD		Android Indu	ustries Zaragoza	
RENAULT		Proma Hispa	nnia	
ENLOG		TI Group		
BOSAL		CIEMMADA		
Gestamp		Cooper Stand	dard	
ADIENT Automotive (Johnson Controls) 🗆	Nothelfer Gn	mbH	
TMS (Turnkey Manufacturing Solutions	GmbH)	Plastic OMNI	IUM Automotive	
KONGSBERG Actuation Systems		Automotive 3	Interiors Zippex (MAGN	A]
Faurecia				

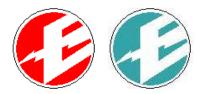






CONSTRUCTION

- □ Acciona
- **□** Dragados
- □ Construcciones San José
- ☐ Mariano López Navarro
- □ FCC
- □ DHO
- □ GTM
- **□** Inobare
- □ Sorigué







PROCESSING

- □ BSH
- □ TEKA Industrial

FURNITURE

☐ HMY YUDIGAR

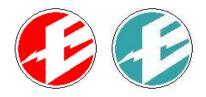
METALLURGICAL

- □ Inalsa
- □ CELSA
- □ Casting Ros
- **☐** Fundiciones Miguel Ros





GLASS	
□ Vicasa (Saint - Goba	ain Vicasa) - VERALLI <mark>A</mark>
PLASTIC	
□ Araven Group	
CHEMICAL	
□ NUREL	□ Adiego Hnos.
☐ FMC Foret	Budenheim Iberica
□ Perorsa	□ N <mark>OVAPET</mark>
☐ IQE (Industrias Quimi	cas del Ebro) 🗆 Carburo del Cinca





TEXTIL

- **☐** Grupo Inditex
 - Zara
 - Bershka
- Stradivarius
- Massimo Dutti

- Pull and Bear
- Zara Home

□ BRILEN

PAPER

- □ SAICA
- □ Torraspapel (Montañanesa)
- □ MONDI

FOOD

- □ CALADERO
- □ MOWI
- □ NESTLÉ
- **□ PASTAS GALLO**
- **□** NUTRIAD
- **□ PANISHOP**







OIL & GAS

- □ CLH
- **□ VOPAK TERQUIMSA**
- **□ WÄRTSILÄ**
- **□ LAPESA**

PHARMACEUTICAL

- □ Advanced Accelerator Applications Ibérica (AAA)
- □ Casen Recordati









MACHINERY MANUFACTURERS

	ABB	□ IRM
	Hitachi	☐ FAGOR Arrasate Service
	CAF	FFT (Tecnología Automoció
	BOSCH REXROTH	☐ FIVES Conveying
	DÜRR SYSTEM SPAIN	□ GAYPASA
	SIEMENS	☐ INGEMETAL
	Schneider Electric España	☐ ISTOBAL (División Iberia)
	Indu-Equip	□ CERNEY
	Eclipse Combustion	□ EM GMSA
	TAIM WESSER	□ NATUS GmbH-CO.KG
	THYSSENKRUPP GmbH	 Industrias Hidráulicas
	Wittur Elevator	Maquinaria Nervión
0	CARRIER ESPAÑA	Talleres Mercier
	Actemium Handling Systems	□ SCHAKO
	ELTHERM	
	EXIDE	







LOGISTICS

- **MARCOTRAN Transportes** Internacionales
- **□** GRUPAJES EUROPEOS
- ☐ CARRERAS GRUPO LOGISTICO
- **□** GRUPO SESÉ
- **□** TRANSFESA
- **□** BERSHKA LOGISTICA
- □ LOGITERS LOGISTICA
- ☐ C. OPER. LOGISTICAS INTEGRALES NORTE
- ☐ SPAIN CAR
- **□** TRADISA
- **□ VIA AUGUSTA**







BODYWORK INDUSTRY

- **□ LECIÑENA**
- ☐ SCHMITZ CARGOBULL

MINING INDUSTRY

□ S.A. Mineria y Tecnología de Arcillas (MYTA)

PUMPING UNITS

- ☐ Torres de Segre
- □ Las Garrigues
- □ SASTESA





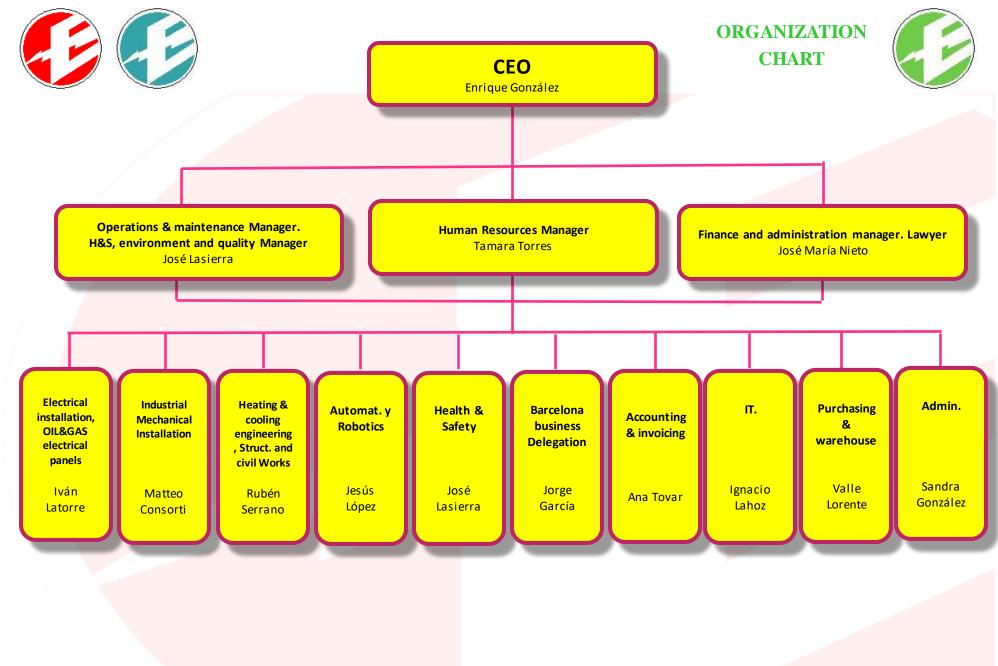


PHOTOVOLTAIC INSTALLATIONS

- **□ VEOLIA**
- □ DEERS Green Power Development

COMMUNICATIONS

- MOVISTAR (TELEFONICA DE ESPAÑA)
- **□ VODAFONE**
- □ TELNET Redes Inteligentes
- □ Torrescámara y Cía de Obras
- **□** Cables De Comunicaciones







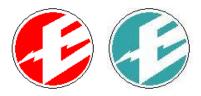
ELECTRICAL PANELS

JUAN VALLS juan.valls@entrerrios-automatizacion.es

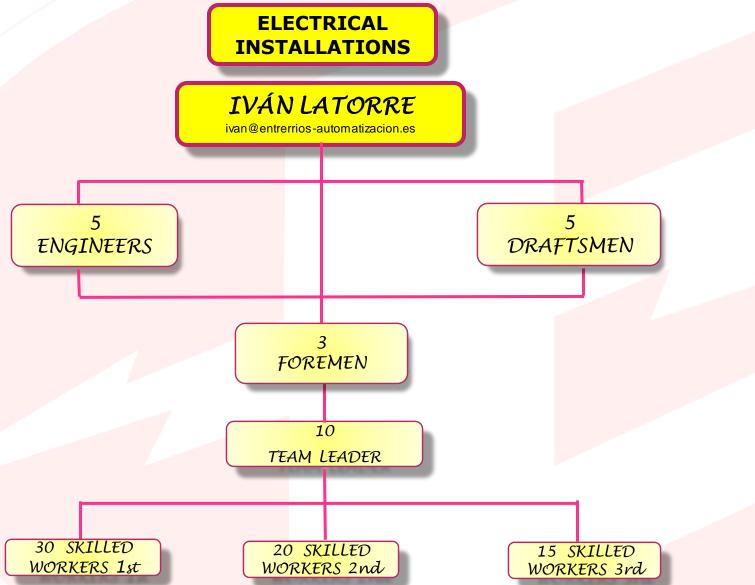
1 ENGINEER

DRAFTSMEN

6 Panel Workers







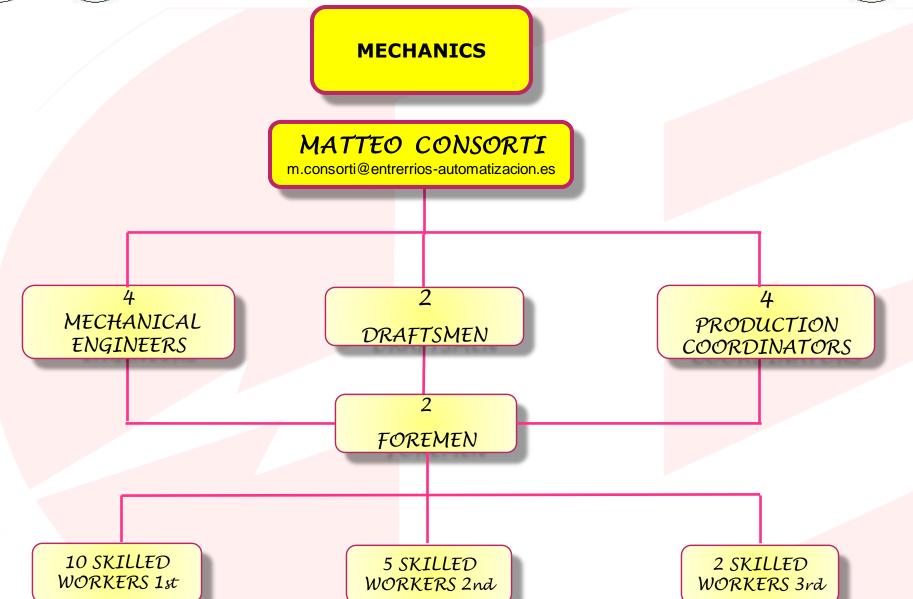




AUTOMATION JESUS LOPEZ jesus.lopez@entrerrios-automatizacion.es 12 8 PLC ROBOTS SCADA PROGRAMMERS PROGRAMMERS PROGRAMMERS

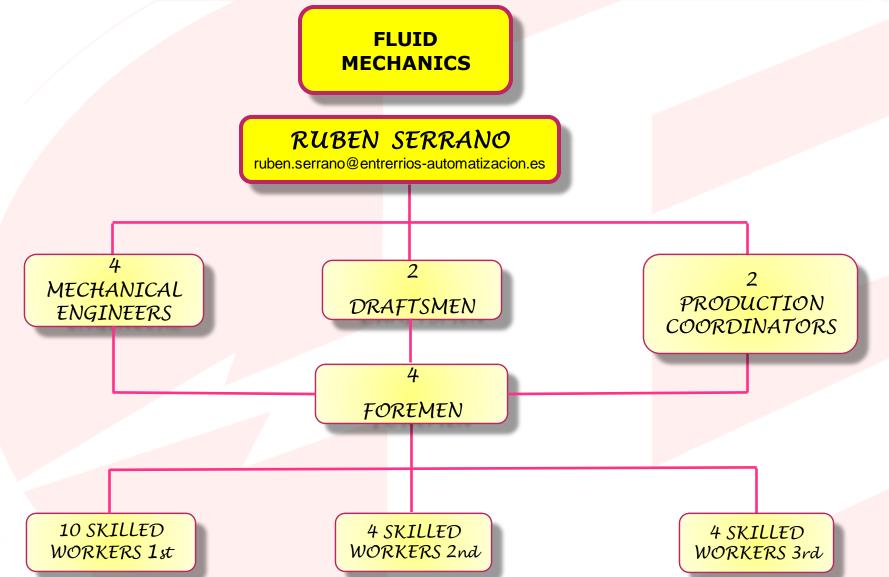


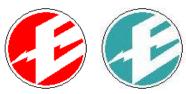




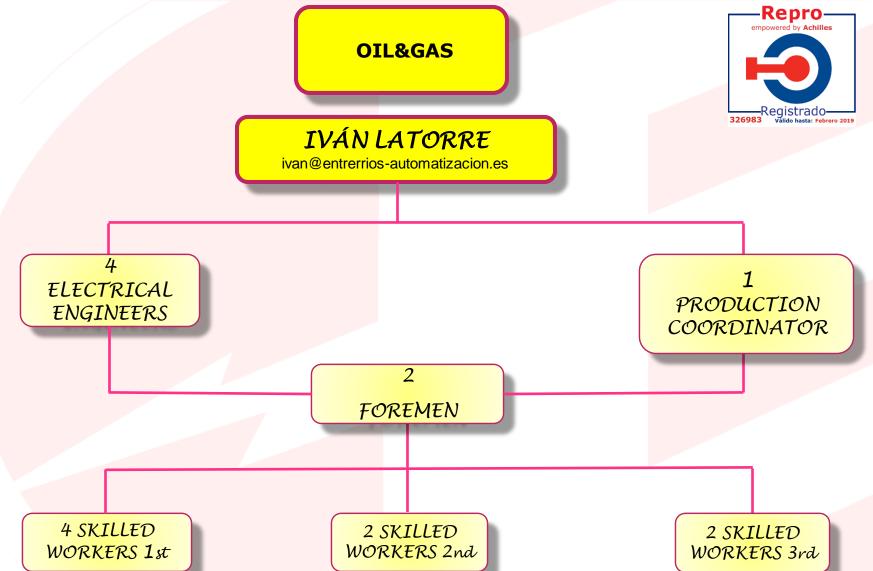


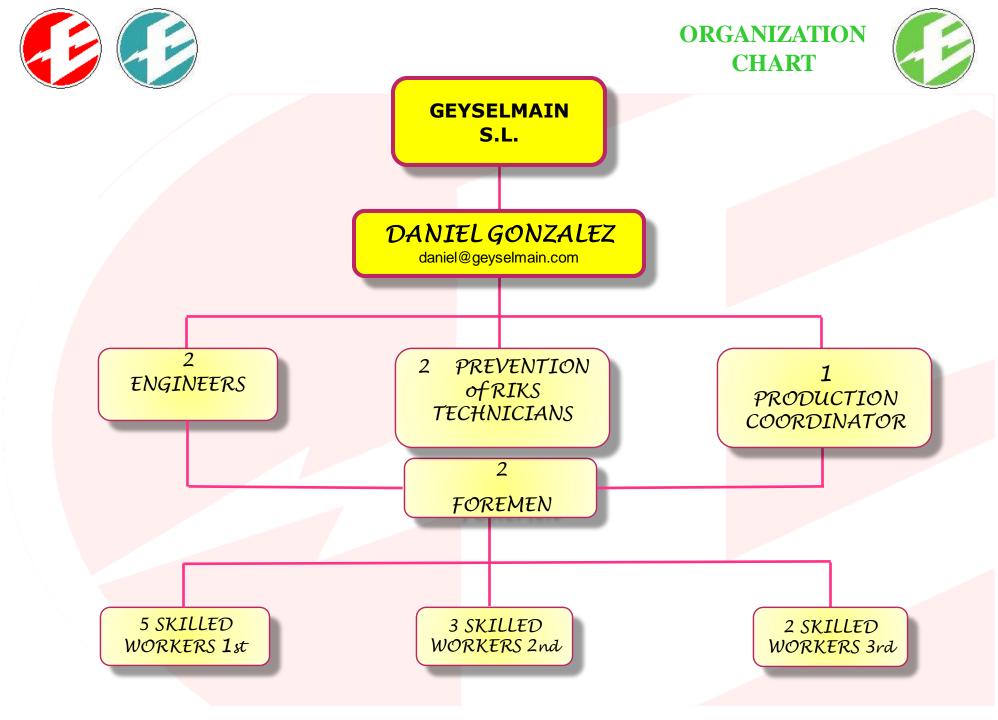




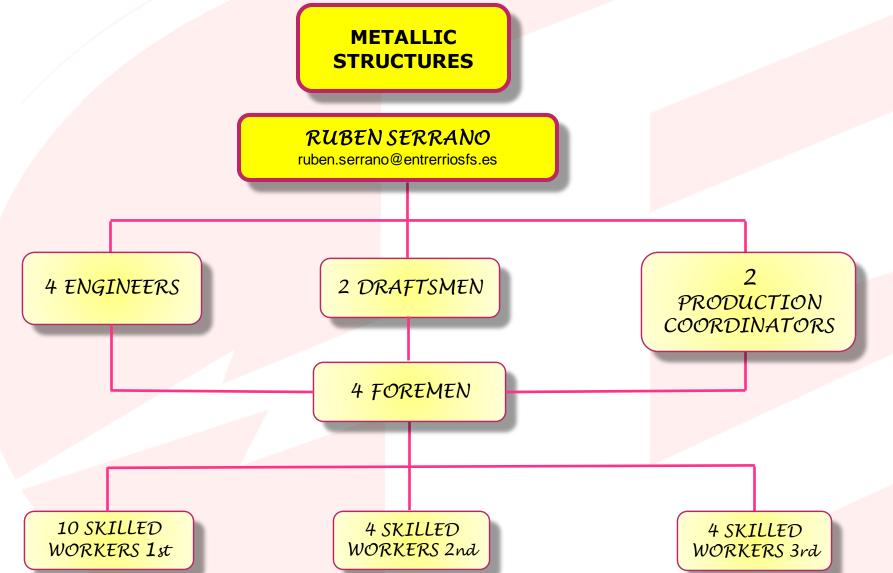






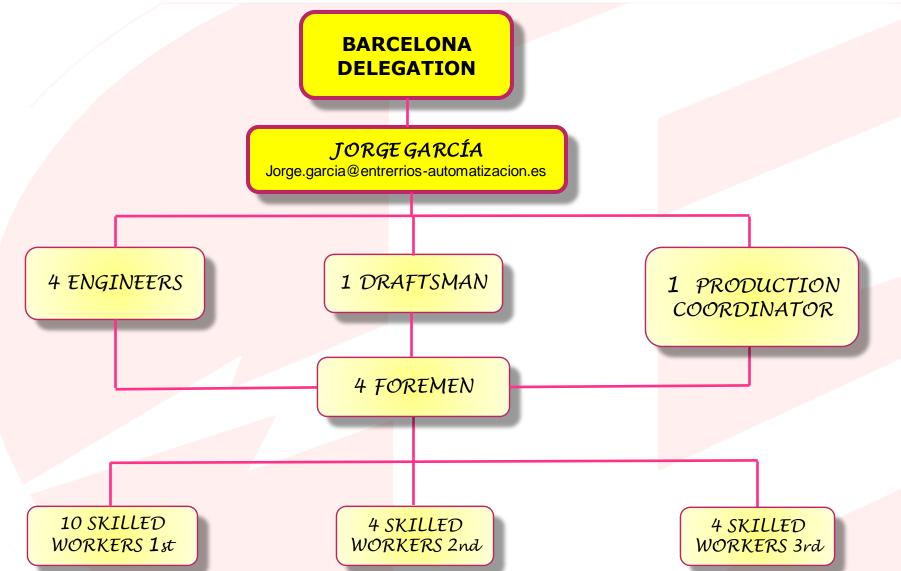


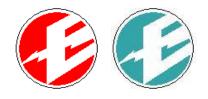














HEADQUARTERS

PEDROLA (ZARAGOZA)

BARCELONA OFFICE

ESPARRAGUERA

NAVARRA OFFICE



PAMPLONA

JAEN OFFICE



MARTOS

WORK SITES



OPEL - SEAT - CAF - ABB
VALEO- VW Navarra - RENAULT
TEKA - PLASTIC OMNIUM











CERTIFICADO Nº CERTIFICATE No.

36876/18/AN

Se certifica que el Distema de Gestión de Calidad de it is hereby certified that the Quality Management System of

ENTRERRIOS AUTOMATIZACIÓN, S.A.

POLIGONO EL PRADILLO - CIANETO 1, PARCELA 15, 50690, PEDROLA (ZARAGOZA), ESPAÑA

en las siguientes unidades operativas / in the following operational units

POLIGONO EL PRADILLO - C/ANETO 1, PARCELA 15, 50690, PEDROLA (ZARAGOZA), ESPAÑA

cumple con la norma it in compliance with the standard

ISO 9001:2015

para el siguiente campo de actividades / for the following field of activities

SMEKO, DESARROLLO Y MONTALE DE ADTINACIONES ELÉCTRICAS DE ALTA Y SALA TIMBODO DISEÑO Y DESARROLLO DE CALIBRIOS.
ELÉCTRICOS, CUARROS DE MANCO Y MUTURATAS PROCESAMENTES PIRA REFINACIONES ROCISTRACIA A TOMANTACION Y ROCEPTACA DE CONTROL SERVICIONES DE PROCESOR DE CALIBRIO DE CALIBRIO PIRA CALIBRIO PIRA CALIBRIO DE CALIBRIO PIRA CALIBRIO CONTROL CONTROL DE PROCESOR DE CALIBRIO DE CALIBRIO PIRA CALIBRIO DE CALIBRIO DE CALIBRIO DE CALIBRIO DE CALIBRIO PIRA CALIBRIO DE CALIBRIO

GROSSYY, DISENVOLUPRARYY (MANYANIE DYNOTAL LACONS ELÉCTROLIES EN ALTA I MANA YERRÓ, DISSENY DISSENY DISENVOLUPARENT DE GROCHES ELÉCTROS, GUADRES DE COMPACHISTIT I AUTORIST HI ROCHEMBRELES FIREN A ROTAL CAUCHE ROCHEMA, AUTORISTICACIÓ RESONDA, MANYANIE FIRENA, LACONS DE PROFUCIOS CONTRA HISTORIO, RETRA LACIÓ DE TOT TIPUS DE TALLOS, MODRAS PERO CALORI CLIRATITIZACIÓ, MUTAL LACONS DE PROFUCIOS CONTRA HISTORIO, RETRA LACIÓ DE TOT TIPUS DE TALLOS, MICHAEL RIQUETRIAL, ANTARRES PORTES DE CONTRA LACONS DE PROFUCIOS CONTRA HISTORIO, RETRA LACIÓ DE TOT TIPUS DE TALLOS, MICHAEL RIQUETRIAL, ANTARRES PORTES DE TALLOS DE PROFUCIOS CONTRA HISTORIO, RETRA LACIÓ DE TOT TIPUS DE TALLOS, MICHAEL RIQUETRIAL,

DESIGN DEVELOPMENT AND ASSEMBLY OF ELECTRICAL INCTALLATIONS IN WIGH AND DISVOLTABLE DESIGN AND DEVELOPMENT OF ELECTRICAL PARELL, CONTROL PARELL AND PROCREMANDLE AUTOMATA FOR RECEITING METICAL EXTORATION AND AND RECEIVED A RESIGNAL FOR DEVELLATION OF PIERRY OFFICE METHODIC AND CONTROLLED AN INCRESSED AND RECEIVED CONTROL OFFICE COLD. HERE AND AND CONDITIONING, FIRE PROTECTION FACULTIES, INSTALLATION OF ALL PIFIES OF FLUIDS, INDUSTRIA, MICHIGANICS, INDUSTRIA, MANTENANCE.

CONCEPTION, DÉVELOPPEMENT ET WONTAGE EINSTALLATIONS ÉLECTRIQUES EN HAUTE ET SASSE TENSION, CONCEPTION ET District register in the instruction of all products, or instruction of control of a control of the control of LINCENDE: INSTALLATION DE TOUS TYPES DE PLUIDES: MÉCHANIQUE INDUSTRIELLE MAINTENANCE MOUSTRIELLE

La veltraz de este certificate caracte de las sudivina sementena / en para y recepir compres caractes afon del financia de Caratic The radially of this certificate as dependent on an account? are receivity excit and on a complete review, every three years, of the management system

\$1 ass y wilder de ode setficiale esté après al complements de las decumentes filhet. Paglaments pare la Cartificación de Salamas de Cartificación de Cartifica The use and ratidly of this certificate are subject to compliance with the fifted document. However the certification of County Management Cysteria.

Orimers emisión First Issue Pecha de vencimiento Expiry Date

Fecha de renovación de la decisión

Revision date

04.06.2019 Renewal decision date 31.01.2015 Fecha de revisión

Organitización con Sixtema de Gestión certificado desde Organization with Management System certified since:

12/02/2016

C WANTED TO A STORY

WMM-SNA-OVE

For information concerning

duly of the certificans, you can visit the side

Referee a la documentación no

ia información portespondente a los requisitos de la nomia que re se aplican al alcanos del sistema

Performing to be discussed to the

relevant documented information for the requirements of the standard that cannot be applied to

the Organization's management system scape

Alessandro Romei Certification EMEA Region



91.01.2019











con la validez del certificado. puede consultarse el sito

For information concerning

validity of the certificate, you can visit the site

Referirse a la documentación con la información correspondiente a los requisitos de la norma que no

se aplican al alcance del sistema

Reference is to be made to the

relevant documented information for the requirements of the standard that cannot be applied to

the Organization's management system scope

IAF:25

CERTIFICADO Nº CERTIFICATE No.

36878/18/AN

Se certifica que el Sistema de Gestión de Calidad de it is hereby certified that the Quality Management System of

ENTRERRIOS FACILITY SERVICES, S.A.

POLIGONO EL PRADILLO, C/ANETO 1, PARCELA 15. 50690 PEDROLA (ZARAGOZA), ESPAÑA

en las siguientes unidades operativas / in the following operational units

POLIGONO EL PRADILLO, C/ANETO 1, PARCELA 15. 50690 PEDROLA (ZARAGOZA), ESPAÑA

cumple con la norma is in compliance with the standard

ISO 9001:2015

para el siguiente campo de actividades / for the following field of activities

DISEÑO, DESARROLLO Y MONTAJE DE INSTALACIONES ELÉCTRICAS DE ALTA Y BAJA TINSIÓN, DISEÑO Y DESARROLLO DE CUADROS ELÉCTRICOS, CUADROS DE MANDO Y AUTOMATAS PROGRAMABILES PINA RESTALACIONES INDUSTRIALES, AUTOMATIZACION Y ROBOTICA, MONTAJE E RESTALACION DE PIREN ÓFICA DE RED Y AUTOMATISMO DE AUTOMATIZACION Y ROBOTICA, CUMATEACION, NISTALACIONES DE PROTECCIÓN CONTRA INCENSIOS, RISTALACIONES DE AUTOMATICACIÓN. MONTAMENTO RIODISTRIAL, CORRA CINI, PESTILUCTURAS METALACIOS.

DISSENY, DESENVOLUPAMENT I MUNTATOR D'INSTAL LACIONS ELÈCTRIQUES EN ALTA I BAIXA TENSIÓ, DISSENY I DESENVOLUPAMENT DE QUADRES ELÈCTRICS, QUADRES DE COMMANMENT I AUTOMATS PROGRAMABLES PIER A ROTAL (ACIONS RIUDISTINUS, AUTOMATITACIÓ I REBOTICA, MUNTATOR I INSTAL ALACION SON EN AUTOMATICA SU AVAICA I DACES. RISTAL (ALACION ENTE COMPREMI. TASTIL, ALCIONES PIERO CALORI CLIMATITACIÓ, RISTAL (ALCIONS DE PROTECCIÓ CONTRA INCRIDISI, RISTAL ALCION E TOT TIPUS DE FLUTIG, MECÀNICA INDUSTRAL; AUTOMATICA CORRES CONTRA INCRIDISTINATION CONTRA INCRIDISTINATION CONTRA LACIONE.

DESIGN, DEVELOPMENT AND ASSEMBLY OF ELECTRICAL INSTALLATIONS IN HIGH AND LOW VOLTAGE, DESIGN AND DEVELOPMENT OF ELECTRICAL PARELS, CONTROL PARELS AND PROGRAMMABLE AUTOMATA FOR INDUSTRIAL INSTALLATIONS, AUTOMATION AND PROGRESS ASSEMBLY AND INSTALLATION OF FIERE OPTO INSTINUTION AND DATE COMPRESSED ARE INSTALLATIONS, PROLITED COLD. HEAT AND ARE CONDITIONING, FIRE PROTECTION FACILITIES: INSTALLATION OF ALL TYPES OF FLUIDS; INDUSTRIAL MICHARICS; INDUSTRIAL MAINTENANCE.
DISSENY, DESENVOLUPAMENT I MUNTATOE DINISTAL LACIONS ELECTROQUES IN A TATA BAINA TENSIÓ, DISSENY I DESENVOLUPAMENT DE

GUISSIN, LIGENYOLO PRIMERY I MOST A GELINIOS ALECTROLLES EN ATTENDO FENDO FENDO. GESENY I DESENVOLUE PRIMERY DE GUISSIES ELÉCTRICO, QUADRES DE COMMANAMENT I AUTOMATS PROGRAMMENTES PER A INSTALLACIONS INDUSTRICON CAUDITICA MUNITATICE I INSTALLACIÓ DE PRIMA ÓPTICA DE XARCA I DADES, INSTALLACIONS D'AIRE COMPRIMET, INSTALLACIONS PRIED, CAUDITICAMITICACIÓ, INSTALLACIONS DE PROTECCIÓ CONTRA MUNICIPIES, INSTALLACIÓ DE TOT I PROS DE PLUEDE, RACIAL ACIONS DE CAUDITICAMITICACIÓ, INSTALLACIONS DE PROTECCIÓ CONTRA MUNICIPIES, INSTALLACIÓ DE TOT I PROS DE PLUEDE, RACIAL ACIONS DE CAUDITICAMITICADO, INSTALLACIONS DE PROTECCIÓ CONTRA MUNICIPIES, INSTALLACIÓ DE TOT I PROS DE PLUEDE, RACIONAL DISTALLACIONS DE PROPER A MUNICIPAL DE TALLACIONS DE PROPER A MUNICIPAL DE LACION DE TORDA DE LACIONS DE PROPER A MUNICIPAL DE LACIONS DE PROPER A MUNICIPAL DE LACIONS DE PROPER DE LACIONS D MANTENIMENT INDUSTRIAL OBRES CIVILS I ESTRUCTURES METAL-LIQUES

La validaç de este certificado depende de las auditorias semestrales / anuales y revisión completa cada tres años del Sistema de Gestió The validity of this certificate is dependent on an annual / six monthly sudit and on a complete review, every three years, of the manage

El uso y validaz de este certificació esté suleto al cumolimiento de los documentos RINA: Reclamento para la Certificación de Satemas de Gestión de Calidar The use and validity of this certificate are subject to compliance with the RINA document : Rules for the certification of Quality Management Systems

Fecha de renovación Primera emisión de la decisión

First Issue 04.06.2018 Renewal decision date 31.01.2019 Fecha de vencimiento Fecha de revisión 11.02.2022

31.01.2019

Organización con Sistema de Gestión certificado desde Organization with Management System certified since:

12/02/2016

Alessandro Romel Certification EMEA Region Senior Director















ISO 14001



CERTIFICADO Nº CERTIFICATE No.

EMS-7266/AN

Se certifica que el Sistema de Gestión Ambiental de it is hereby certified that the Environmental Management System of

ENTRERRIOS AUTOMATIZACIÓN. S.A.

POLIGONO EL PRADILLO - C/ANETO 1, PARCELA 15. 50690, PEDROLA (ZARAGOZA), ESPAÑA

en las siguientes unidades operativas / In the following operational units



Para información relacionada con la validez del certificado. puede consultarse el sito

validity of the certificate, you can visit the site

00000

POLIGONO EL PRADILLO - C/ANETO 1, PARCELA 15. 50690, PEDROLA (ZARAGOZA), ESPAÑA

Cumple con la norma is in compliance with the standard

ISO 14001:2015

Para el siguiente campo de actividades / For the following field(s) of activities

DISENO, DESARROLLO Y MONTAJE DE PISTALACIONES ELECTRICAS DE ALTA Y BAJA TENDION, DISENO Y DEBARROLLO DE CUADROS ELÉCTRICOS, CUADROS DE MANDO Y AUTOMATA PROCRIMANDES PARA RETALACIONES ROUDETRIALES, AUTOMATIZACION Y RODOTICA, MONTAJE E RISTALACION DE RIBRA OPITADA DE REDY DATOS MATERIALES AUTOMATIZACION Y RODOTICA, MONTAJE DE RISTALACIONES DE PROCOCIONICOS CONTROS DE PLUDOS, MECANICA RODOTICA DE CONTROS DE PLUDOS, MECANICA RODOTICA MONTAJEMBRA. DE PRODUCTIVA DE PROCEDE PROCED

DESIGN, DEVELOPMENT AND ASSEMBLY OF ELECTRICAL INSTALLATIONS IN FIGH AND LOW VOLTAGE, DESIGN AND DEVELOPMENT OF ELECTRICAL PANELS, CONTROL PANELS AND PROGRAMMABLE AUTOMATA FOR INDUSTRIAL INSTALLATIONS, AUTOMATION AND ROBOTICS; ASSEMBLY AND INSTALLATION OF FIRER OPTIC NETWORK AND DATA, COMPRESSED ARE INSTALLATIONS, FACULTIES COLD, HEAT AND ARC CONCEPTION, OPERIORIZION FACULTIES, INSTALLATION OF ALL TYPES OF FLIDES, INDUSTRIAL MICHANICS, INDUSTRIAL MARTINANCE, CONCEPTION, OPERLOPPEMENT ET MONIFACE DIVISIFILATIONS ELECTROQUES DE HAUTE ET BASSE TENSONS, CONCEPTION ET DEVELOPPEMENT DE PANNEAUX ÉLECTRIQUES, DE PANNEAUX DE CONTRÔLE ET D'AUTOMATIES PROGRAMMABLES POUR INSTALLATIONS INDUSTRIELLES, D'ADMINISTATION ET ROBOTIOUR. ASSIMBLAGE ET INSTALLATION DE RISSAU DE PRIMES OPTIQUES ET DE DONNÉES, INSTALLATIONS D'ADMINISTATION D'ANDIE MONTAULT MONDE PROFETORM CONTRELL MONDIEL MONTAULT MONTAU DE TOUS TYPES DE PLUIDES MÉCHANIQUE INDUSTRIELLE MAINTENANCE INDUSTRIELLE

La validaz de este certificado depende de las auditorias semestrales / anuales y revisión completa cada trea años del Statema de Gestión The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system Ill use y validac de este certificado está sujeto al cumplimiento de los documentos RINA: Reglamento para la Certificación de Sistemas de Gestión Ambiental.

The use and the validity of this certificate are subject to compliance with the RINA document Rules for the Certification of Environmental Management Systems.

Primera emisión		Fecha de renovación de la decisión			. VOA	
First Issue	04.06.2018	Renewal decision date	31.01.2019	Organización con Sistema de Gestión certificado desde:	A. TPA	
Fecha de vencimiento		Fecha de revisión		Organization with Management System certified since:	12/02/2016	d
Explry Date	11.02.2022	Revision date	31.01.2019	All Control of the Co	WAL	y.,
					207.09 19	

Alessandro Romei Certification EMEA Region Senior Director





management system Certification Bodies



CERTIFICADO Nº CERTIFICATE No.

EMS-7267/AN

Se certifica que el Sistema de Gestión Ambiental de it is hereby certified that the Environmental Management System of

ENTRERRIOS FACILITY SERVICES, S.A.

POLIGONO EL PRADILLO, C/ ANETO 1, PARCELA 15. 50690 PEDROLA (ZARAGOZA), ESPAÑA

en las siguientes unidades operativas / in the following operational units

Para información relacionada puede consultarse el sito

CISQ is a member of

www.ignet-certification.com

IAF:15

For information concerning validity of the certificate, you can visit the site

POLIGONO EL PRADILLO, C/ANETO 1, PARCELA 15, 50690 PEDROLA (ZARAGOZA), ESPAÑA

Cumple con la norma is in compliance with the standard

ISO 14001:2015

Para el siguiente campo de actividades / For the following field(s) of activities

DEENO DESARROLLO Y MONTALE C REVISACIONES ELECTRICAS DE LA Y PALA TENDRO, DERION O DESARROLLO Y MONTALE DE REVISACIONES ELECTRICAS DE LA Y PALA TENDRO, DERION O DESARROLLO DE CILICRIOS ELECTRICOS, CULTUROS ELECTRICOS, CULTUROS DE LOCADOS DE MANDO Y AUTOMATAS PROGRAMANES PARA RETRALACIONES ROMANIA PROGRAMA DE LOCADO PLANONA DE REVISACIONES DE AREZ COMPRISO, DE LUDOS, MECANICA ROMOSTRALACIONES DE LUDOS, MECANICA ROMOSTRALO DE LUDOS, MECANICA ROMOSTRALO, DEL LUDOS, MECANICA ROMOSTRALO DE LUDOS, MECANICA ROMOSTRALO, DEL LUDOS, MECANICA ROMOSTRALO, METALLA DEL LUDOS, MECANICA ROMOSTRALO, METALLA ROMOSTRALO, METALLA LUDOS DE PROGRAMANES DE LUDOS, MATELLA ROMOSTRALO, METALLA ROMOSTRALO, MET

La validaz de este certificado decende de las auditorias semestrales / anuales y revisión comoleta cada trea años del Sistema de Gestión The validity of this certificate is dependent on an annual / als monthly audit and on a complete review, every three years, of the management system Ill use y validat de eate certificade esté aujete al cumplimiente de los documentes ISINA. Regismente para la Certificación de Sistemas de Gestión Ambienta The use and the validity of this certificate are subject to compliance eith the RINA document Rules for the Certification of Environmental Management System

> Fecha de renovación de la decisión

Primera emisión 04.06.2018 Renewal decision date 31.01.2019 Fecha de vencimiento Fecha de revisión Revision date

Organización con Sistema de Gestión certificado desde: Committation with Management System pertitled since:

Alessandro Romel Certification EMEA Region Senior Director

RINA Services S.p.A.













ISO 45001



CERTIFICADO Nº OHS-3407 CERTIFICATE No.

Se certifica que el Sistema de Seguridad y Salud Ocupacional de It is hereby certified that the Occupational Health and Safety Management System of

ENTRERRIOS AUTOMATIZACIÓN, S.A.

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA), ESPAÑA

en las siguientes unidades operativas / in the following operational units

Para información relacionada con la validéz del certificado puede consultarse el sito

CISQ is a member of

Diffeet, the association of the world's first class

For information concerning validity of the certificate, you can visit the site

POL. PRADILLO, C/ANETO, PARCELA 15, PEDROLA (ZARAGOZA), ESPAÑA

Cumple con la norma Is in compliance with the standard

ISO 45001:2018

Para el siguiente campo de actividades / For the following field(s) of activities

DISEÑO, DESARROLLO Y MONTAJE DE INSTALACIONES ELÉCTRICAS EN ALTA Y BAJA TENSIÓN, DISEÑO Y DESARROLLO DE CUADROS CTRICOS, CHARROS DE MANDO Y AUTOMATAS PROGRAMANIES PIANA INTRALACIONES RODUTINIALES MONTALE E MISTALACIONE DE RIBA OFFICIA DE RED Y CATO, INSTALACIONES DE AIRE COMPRIMIDO, INSTALACIONES PRÍC, CALO Y CLIMATEZACIÓN, INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS, INSTALACIONES DE AIRE COMPRIMIDO, INSTALACIONES PRÍC, CALO Y CLIMATEZACIÓN, INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS, INSTALACIONES DE TRODO INFO DE LIDIOS, MEGANICA ROJUSTRIAL, AMANTENIMENTO BIODISTRIAL.

DISSIAN, DESENVAL IMPAINT I MUNTATES TRESTAL JACONE ELECTRIQUES DI ALTA BANA TERIOD. DISSIANI DESENVALUPARANTI DE QUARRISE ELECTRICE, QUADRES DE COMANDAMENT I AUTOMATE PRODUMARAISE PRE NA RIAL JACONE DISTINAL SANCHISTALS. MINISTRAL MA DI ANTI LACIO DE PIERA OPTICA DE XARIXA I DAGES, RETAL JACONES D'AIRE COMPRIATI, ROTTA L'ALCIONE PRED, CALORI CLIBANTIZACIÓ. INSTAL JACIONE DE PROTOCCIÓ CONTINA INCENSIO, RISTAL-JACIO DE TOTTU DE SPULDOS MECHACIA RIDUSTRIAL AMPRIMENTA MANTEMMENT ROUSTRIAL. ESTIDIO ENVILOPMENT AND ASSEMBLY OF ESCRIBOL HORIZON IN HORIZON COLLEGE ESTIDIA PARA DESTRUCTIONES OF SECTIONAL PARISE, CONTROL PRINCE AND PROGRAMMER AUTOMATS OF ROUTITIAL WORLD ALLATION ASSEMBLY AND INTELLATION OF PRINCE AND INTELLATION OF ASSEMBLY AND INTELLATION OF PRINCE AND INTELLATION OF PRINCE AND AND CONTROL MANTHEMATIC.

DESON, RÓMELOPREMENT EM MONTAGE EMBET AL ATIONS DE CETTIONES DE HAUTE ET EN DESCRIPTION CRESSANT D'ANA OPPENENT DE PAMPAILA DE ELECTROSIES, DE PROMICIA DE CONTROLLE ET DIATIONATE PROGRAMMARIES D'ONT MONTALISMOS REACTRESILES. ASSEMBLAGE ET ROTALIATION DE RÉSEAU DE RIVEIS OFTOCIOS ET DE DONNÉES NOTALIATIONS D'AIR COMMINIST, MOTALIATIONS DE PRODU. DE CHALDITE DE CLIMITATION MOTALIATIONS DE PROTECTION CONTRE LINCHIDES MOTALIATIONS D'ET DONNÉES. MÉCHANIQUE RIVEIT DE LINCHITE DE CLIMITATION MOTALIATION DE L'ONDITION DE L'AUTRILIE. ÈTU un y vidèze de sels cetificades sels qu'elle d'orgénier de la disconnées l'All Réglements par la Cartification de Salemas de Seguridad y Saled Coupedonal

The use and validity of this certificate are subject to compliance with the PRNA document: Pulsas for the Certification of Occupational Health and Safety Management Systems La validez de este certificado depende de las auditorias semestrales / anuales y revisión compreta ceda trea años del Statema de Gestión The validity of this certificate is dependent on an annual / six monthly sudit and on a complete review, every three years, of the management system

Primera emisión First Issue

08.08.2018

Fecha de vencimiento

Fecha de revisión 07.08.2021 Revision date

08.08.2018

Alessandro Romel Certification EMEA Region

ACCREDIA N

SCR Nº 003 F Signatory of EA, SAF and SLAC Mutual Recognition Agreement

RINA Services S.p.A. Via Corsica 12 - 16128 Genova Italy



CISO es la Pederación dellars de Ente management system Certification Bodies



OHS-3406

CERTIFICADO Nº CERTIFICATE No.

Se certifica que el Sistema de Seguridad y Sajud Ocupacional de

It is hereby certified that the Occupational Health and Safety Management System of

ENTRERRIOS FACILITY SERVICES, S.A.

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA), ESPAÑA

en las siguientes unidades operativas / in the following operational units

CISQ is a member of

Para información relacionada puede consultarse el sito www.rina.om

validity of the certificate, you can visit the site

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA), ESPAÑA

Cumple con la norma

is in compliance with the standard

ISO 45001:2018

Para el siguiente campo de actividades / For the following field(s) of activities

DISEÑO, DESARROLLO Y MONTAJE DE INSTALACIONES ELÉCTRICAS EN ALTA Y BAJA TENSIÓN. DISEÑO Y DESARROLLO DE CUADROS STRICOS, CUADROS DE MANDO Y AUTÓMATAS PROGRAMABLES PARA INSTALACIONES INDUSTRIALES, MONTAJE E INSTALACIÓN DE FIBRA ÓPTICA DE RED Y DATOS. INSTALACIONES DE AIRE COMPRIMIDO, INSTALACIONES PRIO, CALOR Y CLIMATIZACIÓN, INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS, INSTALACIÓN DE TODO TIPO DE FLUIDOS, MECÁNICA INDUSTRIAL, MANTENIMIENTO INDUSTRIAL.

DISSINY, DESENVALUPMENT MUNTATO CHIEFATA, ACCIONE SE ECTRIQUES IN ACTA SENVA CHIEFATO DESENVALUPMENT DE QUARTIES ELECTRICE, QUARDES ELE COMANIQUEMENT, ANTOMATS PROGRAMALES PER A NUTRA, LACIONE ROUSTINSAL, MUNTATO DI QUARTIES ELECTRICE, CONCRETO COMPANDATO DE LACIONE DI CONTROLT, ACCIONE DI CONTROLT, THE RELIEF OF THE PROPERTY AND ADMINISTRATE SHEET CHAPTER OF THE PROPERTY AND ADMINISTRATE PRODUCTION.

ZERODA QUESTION MANY AND ADMINISTRATE OF ELECTROCAL HIGH PLANTAGE IN MOST AND LOW YOU TAKE DESIGN ADD OPEN COMMITTED

THE PROPERTY OF THE PROPERTY AND ADMINISTRATE OF THE PROPERTY AND ADMINISTRATE ADM

DESSAN ARTHELATERMENT ET MANTAGE DIEST ALL PROME BLETTENES EN HAUTE ET EN HAUSET TRUCKO, DESSAN ET GÊNE LYFERMENT DE PRIMERAGE DELETTENESE DE TRAMIÈRA DE CONTINUES ET DESTAMBAGET DESSAN MANTAGET DEVEN RETALLATENE PLANS ET MEI DE ASSEMBLAGE ET BETALLATEN DE RÉDEAU DE TRIBES OFTOURES ET DE DONNÉES. NOTALLATIONE DAR COMPINIER. INSTALLATIONS DE FRIOD. DE CHALEUT DE CLUMITES DANN ARTALLATIONS DE PROVIETONOS CONTRE L'UNITABLE TRUCKLATION DE TOUS PRESSE MÉCHANIQUE ROUSTROELLE MANTENANCE ROUSTROELLE. ET uso y villèze de sels cefficiales dels julge à la orgéniterio de la documente BLA. Regisemble par la Ceditación de Talemas de Segundar y Salud Coupadoral

The use and validity of this certificate are subject to compliance with the RINA document. Roles for the Certification of Occupational Health and Safety Management System La validaz de este certificado depende de las suditorias semestrales / enusies y revisión completa cada tres años del Statema de Cestión The validity of this certificate is dependent on an annual / six monthly sudit and on a complete review, every three years, of the management syste

Primera emisión First Issue

08 08 2018

Fecha de vencimiento

07.08.2021

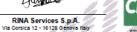
Fecha de revisión Revision date

08.08.2018

Alessandro Romei Certification EMEA Region Senior Director

SCR Nº 003 F

ACCREDIA 7



CISQ to the Itelan Federation of







ISO 50001

CISQ is a member of

www.ignet-certification.com

IQNet, the association of the world's first class indicators badies, is the largest provider of realisiguenal System Certification in the world. Kyllet is compared of more than 30 booles and counts.

over TID substitutes of over the glade.

Para información relacionada

puede consultarse el sito

validity of the certificate, you can visit the site www.rine.org

99999

00000



CERTIFICADO N. EnergyMS-169 CERTIFICATE No.

> SE CERTIFICA QUE EL SISTEMA DE GESTION PARA LA ENERGIA DE IT IS HEREBY CERTIFIED THAT THE ENERGY MANAGEMENT SYSTEM OF

ENTRERRIOS AUTOMATIZACIÓN, S.A

POLIGONO EL PRADILLO - C/ANETO 1, PARCELA 15. 50690, PEDROLA (ZARAGOZA), ESPAÑA

EN LAS SIGUIENTES UNIDADES OPERATIVAS / IN THE FOLLOWING OPERATIONAL UNITS

POLIGONO EL PRADILLO - C/ANETO 1, PARCELA 15. 50690, PEDROLA (ZARAGOZA), ESPAÑA

CUMPLE CON LA NORMA / IS IN COMPLIANCE WITH THE STANDARD

ISO 50001:2011

PARA EL SIGUIENTE CAMPO DE ACTIVIDADES / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

DISEÑO, DESARROLLO Y MONTAJE DE INSTALACIONES ELÉCTRICAS EN ALTA Y BAJA TENSIÓN. DISEÑO Y DESARROLLO DE CUADROS ELÉCTRICOS, CUADROS DE MANDO Y AUTÓMATAS PROGRAMABLES PARA INSTALACIONES INDUSTRIALES, MONTAJE E INSTALACIÓN DE FIBRA OPPOG DE RED Y DATOS, INSTALACIONES DE ARE COMPRIMIDO, RETALACIONES PIO ACIONA FINALEZ. MATIZACIÓN, INSTALACIONES DE PROTECCIÓN CONTRA INCENSIALACIONES DE ARE COMPRIMIDO. RETALACIONES DE PROTECCIÓN CONTRA INCENSIALACIÓN

DISSENY, DESENVOLUPAMENT I MUNTATGE D'INSTAL LACIONS ELÉCTRIQUES EN ALTA I BAIXA TENSIÓ. DISSENY I DESENVOLUPAMENT DE QUARRES ELÉCTRICS, QUADRES DE COMANDAMENT I AUTÓMATS PROGRAMABLES PER A INSTAL LACIONS INDUSTRILLAS INSTAL LACIÓ DE PIERA OPTOLO DE SATIXA I DIDES. INSTAL LACIONES D'ARES COMPRIMET. INSTAL LACIONS PERO, CALOR I CLIMATITACIÓ. INSTAL LACIONS DE PROTECCIÓ CONTRA INCENDIS. INSTAL·LACIÓ DE TOT TIPUS DE PLUIDS. MECÂNICA INDUSTRIAL MANTENMENT INDUSTRIAL

DETIDIE ETVECOMENT AND ASSEMBLY OF BESTIMEA BETTELLETINES IN HIGH AND LIGHTVICE THE CERTISM AND DETRE CHARGE OF BESTIMMER PRINCES CONTINCE PRINCE AND PRODURBANGE AUTOMATE FOR ROUGHTRIE, INCHES AND ASSEMBLY AND INSTALLATION OF FRIEND OFFIC NETWORK AND DATA COMPRESSED ARE NOTALLATIONS, FACILITIES OCCU, PIEAT AND ARE CONSTITUTIONS FIRE PROTECTION FOR THE AND ASSEMBLY AND ASSEMBLY OF THE ASSEMBLY MICHIGANIC SOUTHERS AND CONTRACTANT MATERIANICS.

DESSEA MONEL OFFENDER ET MONTAGE DINSTALLATIONS ÉLECTIONSE DE HAUTE ET DIA BAGE TRACIOS ACCORTE CÓNCO-PREMIENT LE PRIMERA DE CENTROIRE. ET RAMIRATIO ET CONTINUE ET DIA/FORMETS PROGRAMMATIC POUR BROTAL FATOR BROTATEMENT EL ASSEMBLAGE ET MOTAL TATION DE RÉGISAU DE PRIMES CHITOLISE ET DE DOMRÈSE. MOTAL ATRION GIANT COMPRIME. MOTAL ATRION GE PROG. DE CHALLEUT ET DE CLIMATIS ENTON MOTALLATIONS DE PROTECTION CONTITE. MOTALISME ATRICALATION DE L'OPRIS DEFL'AUGU MÉCHANIQUE INDUSTRIELLE. MAINTENANCE INDUSTRIELLE.

La validaz de este certificado depende de las auditorias semestrales / anuales y revisión completa cada tres años del filiatema de Gastión The validity of this certificate is dependent on an annualitis monthly sudit and on a complete review, every three years, of the management system III uso y is validate de eats certificacion del Sistemas de Centificacion de de Centificacion

The use and validity of this certificate are subject to compliance with the FINIA document: Rules for the Certification of Energy Management Systems

First Issue

20.07.2018

Fecha de vencimiento

Fecha de revisión

20.07.2018

Alessandro Romel Certification EMEA Region Senior Director

RINA Services S.p.A. Via Corsica 12 - 16128 Genova Italy









Para información relacionada

puede consultarse el sito

validity of the certificate, you can visit the site www.rina.org

CERTIFICADO N.

EnergyMS-170

CERTIFICATE No.

SE CERTIFICA QUE EL SISTEMA DE GESTION PARA LA ENERGIA DE IT IS HEREBY CERTIFIED THAT THE ENERGY MANAGEMENT SYSTEM OF

ENTRERRIOS FACILITY SERVICES, S.A

POLIGONO EL PRADILLO, C/ANETO 1, PARCELA 15. 50690 PEDROLA (ZARAGOZA), ESPAÑA

EN LAS SIGUIENTES UNIDADES OPERATIVAS / IN THE FOLLOWING OPERATIONAL UNITS

POLIGONO EL PRADILLO, C/ANETO 1, PARCELA 15. 50690 PEDROLA (ZARAGOZA), ESPAÑA

CUMPLE CON LA NORMA / IS IN COMPLIANCE WITH THE STANDARD

ISO 50001:2011

PARA EL SIGUIENTE CAMPO DE ACTIVIDADES / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES DESIGN, DEMPROLLO Y MONTALE DE RISTA ACONSE ELÉCTRICAS DE NATAY DA AI TRIMÓN DESERVO DESSARROLLO DE CLUCROS ELÉCTRICOS, CUNCHOS DE MINDO Y ATOMANA DE POROSIDAMENE DE PARA RESTANDACIOSE RINDISTRICAD MONTALE DE RINDIALACIÓN DE PROSIDA ÓPERA DE RED Y DATOS. INSTALACIONES DE ARE COMPRISMO. DISTALACIONES PIÑO CALOR Y CLIMATIZACIÓN, RISTALACIONES DE PROTECCIÓN CONTRA RECENIDAS INSTALACIÓN DE TODO TENO DE FULDOS MECANOS RIVINO CALORY Y CLIMATIZACIÓN. RISTALACIONES DE PROTECCIÓN CONTRA RECENIDAS INSTALACIÓN DE TODO TENO DE FULDOS MECANOS RIVINDES. MANTENIDATION DIODETRICA CONTRA DE PROPERSON DE PROPERSON DE PROPERSON DE PROPERSON DE PARA PROPERSON DE PROPERSON DE

DISSIN', DISSIN'OLIMBENTI MINTATOLI TRIGITALI JACONE ELECTROLICE DI ATA BANA TENSO DISSIN'I DESENDI UDIAMENTI DE GUARRIES ELECTRICI, GLODIES DE COMANGAMENTI AUTOMATI PROGRAMALES PER A RETAL JACONE RISTRIALI, MUNICIPATINI, AUMINTATO INSTAL JACONE DE PIENE OPPICA DE XARIXA I DAGES. RETAL JACONES ETARIE COMPIRET. INSTAL JACONES PIED, CALON I CUARATIZACIÓ. INSTAL JACONES DE PROTOCCIÓ CONTRA RICCIORES. RETAL JACONES ETARIES DE PUEDE MEDICANA RICUSTRIAL MANTENMENT RIGUESTRIAL.

BEIDDE EDVECTORIES AND ASSERBLY OF BECTTEGA BETTELLETING IN FIGURED LOWYGE FARE CERTIFIC AND DEVEL CHARACT OF BECTTORIES FROMES, CONTROL PRINCE AND PRODUMENTAL ENTORIEST FOR RECUSTRIES, LINE LATIONAL STORMAY AND INTELLETION OF FREER OPTIC NETWORK AND DATA COMPRESSED ARE NOTALLETINGS, FACILITIES COLD. HEAT AND ARE CONCENTIONAL FIRE PROTECTION FACILITIES INTELLETION OF ALL THOSE OF FLUIDS. INCIDENTAL MICHARICS LOWER TRANSPERSANCE.

DEEDE, EÜNEL OPFERMENT ET MONTREC DIEST ELLA FLORG ÉLETIEURE EN HAUTE ET EN BASEE TEMPOR GEGEN ET ÉQUE, OPPHENNT DE PRINCIPACE DE CENTROLES, EL PROMICIAL DE CONTROLE ET DIALTORISTE PROGRAMMARIES POUR MONTRELA FLORGE ALLATORISTE ASSEMBLAGE ET MISTALLATION DE RÉGIEND DE TRIBES OPTIQUES ET DE DOMRÉS. MISTALATORIS CHAR COMPRISE. BISTALATORIS DE PROG. DE CHALLES ET DE CLIMATISTON MISTALATORISTE DE PROFECTION CONTRE! ENCENALATION DE TOUTRELATION DE TOUTRE DE PROG. MECHANIQUE INDUSTRIELLE MAINTENANCE INDUSTRIELLE

La validaz de este certificado depende de las auditorias semestrales / anuales y revisión completa cada trea eños del Sistema de Gestión The velicity of this certificate is dependent on an annualitix monthly sudit and on a complete review, every three years, of the management system III uso y is veliced de este certificado está sujeto a la conformidad con el documento RINA: Regismento para la Certificadón de Sistemas de Gestión de Emergía.

The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Energy Management Systems

Primera emisión First Issue 20.07.2018

Expliv Date 19.07.2021 Fecha de revisión Revision date

20.07.2018

Certification EMEA Region Senior Director

RINA Services S.p.A.



Certificación del Statema de Gestión CISO la the Neben Federation of necessarient system Certification Sodie

ACCREDIA SGE Nº 008 M



ISO 27001

CERTIFICACIONES







CERTIFICADO Nº

717/21

CERTIFICATE No.

SE CERTIFICA QUE EL SISTEMA DE GESTIÓN DE LA SEGURIDAD DE LA INFORMACIÓN IT IS HEREBY CERTIFIED THAT THE INFORMATION SECURITY MANAGEMENT SYSTEM OPERATED BY

ENTRERRIOS AUTOMATIZACIÓN, S.A.

POLÍGONO EL PRADILLO, C/ANETO 1, PARCELA 15, 50690, PEDROLA, ZARAGOZA, ESPAÑA

EN LAS SIGUIENTES UNIDADES OPERATIVAS / IN THE FOLLOWING OPERATIONAL UNITS

POLÍGONO EL PRADILLO, C/ANETO 1, PARCELA 15, 50690, PEDROLA, ZARAGOZA, ESPAÑA

CUMPLE CON LA NORMA IS IN COMPLIANCE WITH THE STANDARD

ISO/IEC 27001:2013

PARA EL SIGUIENTE CAMPO DE ACTIVIDADES / FOR THE FOLLOWING RELOISI OF ACTIVITIES

LOS ESTRIMA DE EN ONIGICIÓN QUE DAN ESPONTA A ME ACTIVENCIS DE CIBERCO, DESARROLLO Y MONTALE DE PETALACIONES ELÉCTRICAS DE ATE EN ALTERIAS, DIRECTO ESPONDADO DE CIAMPOS ELECTRICOS, CUARPOS DE MACOS Y POTRACADE MARIESE PARA PARTACIONES PRE, CADO Y CIAMPINSCOS, ESTERACIONES EN PROTECCIONO CONTRA RECENSIDAD, WITALACIONES DE TODO TROS DE AUGUSTO.

ACCREDIA 7

26,07,3601

Confection EMEA Region

RINA Services S.p.A.

SSI Nº 001 G





CERTIFICADO Nº

718/21

CERTIFICATE No.

SE CERTIFICA QUE EL SISTEMA DE GESTIÓN DE LA SEGURIDAD DE LA INFORMACIÓN. IT IS HEREBY CERTIFIED THAT THE INFORMATION SECURITY MANAGEMENT SYSTEM OPERATED BY

ENTRERRIOS FACILITY SERVICES, S.A.

POLÍCIONO EL PRADILLO, CI ANETO 1, PARCELA 15, 50690, PEDROLA, ZARAGOZA, ESPAÑA

EN LAS SIGUIENTES UNIDADES OPERATIVAS / IN THE FOLLOWING OPERATIONAL UNITS

POLÍCIONO EL PRADILLO, CI ANETO 1, PARCELA 15, 50690, PEDROLA, ZARAGOZA, ESPAÑA

CUMPLE CON LA NORMA IS AN COMPLIANCE WITH THE STANDARD

ISO/IEC 27001:2013

PARA EL SIGUIENTE CAMPO DE ACTIVIDADES / FOR THE FOLLOWING RIGLOYS) OF ACTIVITIES

ACCREDIA 5

36,67,3601 entification EMEA Regio

RINA Services S.p.A.







EN 1090



NOTIFIED BODY No 2028 RINA SIMTEX-OC Bucuresti, 4D Leonte Anastasievici St., 5th district, ROMANIA

scredital pentru CERTIFICARE



SR EN ISO/CEI 17065 2013 CERTIFICAT DE ACREDITARE ON 072

CERTIFICATE OF CONFORMITY OF FACTORY PRODUCTION CONTROL

No. 2028 - CPR - 465

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

STEEL STRUCTURAL COMPONENTS

Execution class up to EXC 3, according EN 1090-2 Method for declaration of the component properties 3a, 3b according Table A.1 - EN 1090-1

Intended use: Structural use in any type of constructions.

placed on the market under the name of

ENTRERRIOS FACILITY SERVICES SA Poligono El Pradillo, C/Aneto 1, Parcela 15, 50690 PEDROLA (ZARAGOZA), ESPANA

and produced in the manufacturing plant: **ENTRERRIOS FACILITY SERVICES SA**

Poligono El Pradillo, C/Aneto 1, Parcela 15, 50690 PEDROLA (ZARAGOZA), ESPANA

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 1090-1:2009+A1:2011

runder system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements

This certificate was first issued on 27.11.2018

Date of the next surveillance is until 27.11.2019

The certificate remains valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Eng. Mircea Vasile ZEGREAN

Bucuresti, Date: 27.11.2018

DIRECTOR OF PRODUCT CERRIFICATION DEPARTMENT







MRS 10000



CERTIFICATE No. MRS-52/18

IT IS HEREBY CERTIFIED THAT THE SOCIAL RESPONSABILITY MANAGEMENT SYSTEM OF

ENTRERRIOS AUTOMATIZACIÓN, S.A

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA) - SPAIN

IN THE FOLLOWING OPERATIONAL UNITS

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA) - SPAIN

IS IN COMPLIANCE WITH THE STANDARD

MRS 10000:2018

FOR THE FOLLOWING FIELD(3) OF ACTIVITIES

DISEÑO, DESARROLLO Y MONTAJE DE INSTALACIONES ELÉCTRICAS EN ALTA Y BAJA TENSIÓN. DISEÑO Y DESARROLLO DE CUADROS ELÉCTRICOS, CUADROS DE MANDO Y AUTÓMATAS PROGRAMABLES PARA INSTALACIONES INDUSTRILAS MONTAJE E INSTALACIONES INSTALACIONES DE CARGO VENTA DE REVOLATOR DE LA PROGRAMA DE LA PROGRAM PROTECCIÓN CONTRA INCENDIOS. INSTALACIÓN DE TODO TIPO DE FLUIDOS, MECÁNICA INDUSTRIAL, MANTENIMIENTO INDUSTRIAL

DESIGN, DEVELOPMENT AND ASSEMBLY OF ELECTRICAL INSTALLATIONS IN HIGH AND LOW VOLTAGE. DESIGN AND DEVELOPMENT OF ELECTRICAL PANELS, CONTROL PANELS AND PROGRAMMABLE AUTOMATA FOR INDUSTRIAL INSTALLATIONS, ASSEMBLY AND INSTALLATION OF FIBER OPTIC NETWORK AND DATA COMPRESSED AIR INSTALLATIONS. FACILITIES COLD, HEAT AND AIR CONDITIONING, FIRE PROTECTION FACILITIES, INSTALLATION OF ALL TYPES OF FLUIDS, INDUSTRIAL MECHANICS, INDUSTRIAL MAINTENANCE.

CONCEPTION, DÉVELOPPEMENT ET MONTAGE D'INSTALLATIONS ÉLECTRIQUES EN HAUTE ET BASSE TENSION. CONCEPTION ET DÉVELOPPEMENT DE PANNEAUX ÉLECTRIQUES, DE PANNEAUX DE CONTRÔLE ET D'AUTOMATES PROGRAMMABLES POUR INSTALLATIONS INSTALLATIONS DIAT STALLATION DE FISIEN DE FISIES OPTIQUES ET DE DONNÉES. INSTALLATIONS DUR COMPRIMÉ. INSTALLATIONS DE FROID, DE CHALGURE ET DE CLIMATISATION. INSTALLATIONS DE PROTECTION CONTRE L'INCENDIE. INSTALLATION DE TOUS. TYPES DE FLUIDES. MÉCHANIQUE INDUSTRIELLE. MAINTENANCE INDUSTRIELLE.

DISSENY, DESENVOLUPAMENT I MUNTATGE D'INSTAL·LACIONS ELÈCTRIQUES EN ALTA I BADA TENSIÓ. DISSENY I DESENVOLUPAMENT DE QUADRES ELÉCTRICS, QUADRES DE COMANDAMENT I AUTÓMATS PROCREMANLES PER A INSTAL·LACIONS INUISTRIALS. MUNTATOR INSTAL·LACIONS INUISTRIALS. MUNTATORIO DE TORTO TRUES DE FIRA D'IPICA DE ZARXAL ADAGE. INSTAL·LACIO DE TOT TRUES DE FLUIDS. MECANICA INDUSTRIAL MANTENIMENT INDUSTRIAL. MANTENIMENT INDUSTRIAL. MANTENIMENT INDUSTRIAL.

The validity of this certificate is dependent on an annual/six monthly sucil and on a complete review, every three years, of the management system. The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Social Responsibility Management.

08.06.2018 First Issue

Alessandro Romel Certification EMEA Region Senior Director

Revision Date Expiry Date

08.06.2018 07.06.2021

RINA SIMTEX-O.C. S.R.L. Str. Dr. Leonte Anastasievici, nr. 4D, comul A sector 5. Bucuresti Romania

SC RINA SINTEX - ORGANISMET, DE CERTIFICARE SKL

8-mail: officeReintex.ro; www.rinaromania.ro Rucureati, Str. Leonte Anastasievici, nr.4D, sector 5, J/40/9653/1999; RD 1235179D Tel/Fax: +40 21 6190651 / 54 / +40 21 6190353 / +40 726367806/ +40 741065156

Functs de lucrui Constants, Str. Remus Opreanu nr.10A, bl.1.3, sc.A sp.1, fel.: +40 341 170080 /+40 341 170081 Fax: +40 341 170082; finisoars, Str. Paris nr 2A, Cladice Central Fark, Csm. 204, fel: +40 356 17755] Fax: +40 356 177 557



CERTIFICATE No. MRS-51/18

IT IS HEREBY CERTIFIED THAT THE SOCIAL RESPONSABILITY MANAGEMENT SYSTEM OF

ENTRERRIOS FACILITY SERVICES, S.A.

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA) - SPAIN

IN THE FOLLOWING OPERATIONAL UNITS

POL. PRADILLO, C/ ANETO, PARCELA 15, PEDROLA (ZARAGOZA) - SPAIN

IS IN COMPLIANCE WITH THE STANDARD

MRS 10000:2018

FOR THE FOLLOWING FIELD(8) OF ACTIVITIES

DISEÑO, DESARROLLO Y MONTAJE DE INSTALACIONES ELÉCTRICAS EN ALTA Y BAJA TENSIÓN. DISEÑO Y DESARROLLO DE CUADROS ELÉCTRICOS, CUADROS DE MANDO Y AUTÓMATAS PROGRAMABLES PARA INSTALACIONES INDUSTRIALES, MONTAJE E INSTALACIÓN DE FIBRA ÓPTICA DE RED Y DATOS, INSTALACIONES DE AIRE COMPRIMIDO, INSTALACIONES FRÍO, CALOR Y CLIMATIZACIÓN, INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS, INSTALACIÓN DE TODO TIPO DE FLUIDOS, MECÁNICA INDUSTRIAL, MANTENIMIENTO INDUSTRIAL.

DESIGN, DEVELOPMENT AND ASSEMBLY OF ELECTRICAL INSTALLATIONS IN HIGH AND LOW VOLTAGE, DESIGN AND DEVELOPMENT OF ELECTRICAL PANELS, CONTROL PANELS AND PROGRAMMABLE AUTOMATA FOR INDUSTRIAL INSTALLATIONS. ASSEMBLY AND INSTALLATION OF FIBER OPTIC NETWORK AND DATA, COMPRESSED AIR INSTALLATIONS. FACILITIES COLD, HEAT AND AIR CONDITIONING, FIRE PROTECTION FACILITIES, INSTALLATION OF ALL TYPES OF FULIDS. INDUSTRIAL, MACHANICS, MUDISTRIAL MANTENANCE.

CONCEPTION, DÉVELOPPEMENT ET MONTAGE D'INSTALLATIONS ÉLECTRIQUES EN HAUTE ET BASSE TENSION. CONCEPTION ET DÉVELOPPEMENT DE PANNEAUX ÉLECTRIQUES, DE PANNEAUX DE CONTRÔLE ET D'AUTOMATES PROGRAMMABLES POUR INSTALLATIONS NOUSTRIELLES ASSEMBLAGE ET INSTALLATION ET RÉSAUL DE FIRSE OPTIQUES ET DE DONNÉES. NETALLATIONS D'AIR COMPRIMÉ. INSTALLATIONS DE FROID, DE CHALEUR ET DE CLIMATISATION. NETRALATIONS DE PROTECTION CONTRE L'INCÉDULE. INSTALLATION DE TOUS TYPES DE FLUIDES, MÉCHANIQUE INDUSTRIELLE, MAINTENANCE INDUSTRIELLE

DISSENY, DESENYOLUPAMENT INUNTATIOE CYNSTAL LACIONS ELECTRICURE SEN ALTA I BADIA TENSIÓ. DISSENY I DESENYOLUPAMENT DE QUADRES ELECTRICS, QUADRES DE COMANDAMENT AUTOMATS PROGRAMABLES PER A INSTAL LACIONS INDUSTRIAL MAINTATOS I INSTAL LACIÓ DE FIBRA ÓPTICA DE XARXAI DADES. INSTAL LACIONS D'ARE COMPRIMIT. INSTAL LACIONS PERD, CALOR I CLIMATITACIÓ INSTAL LACIÓNS DE PROTECCIÓ CONTRA INCENDIS. INSTAL LACION DE TOT TIPUS DE FLUIDS. MECÀNICA RIVUSTRIAL MAMERIMENT INDUSTRIAL

The validity of this certificate is dependent on an encuetivis monthly sudit and on a complete review, every three years, of the management system. The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Social Responsibility Management.

Alessandro Romel 08.06.2018 Certification EMEA Region First Issue Senior Director

Revision Date Expiry Date

08.06.2018 07.06.2021

RINA SIMTEX-O.C. S.R.L. Str. Dr. Leonte Anastasievici, nr. 4D, corpul A sector 5, Bucuresti Romania

SC RINA SINTEX - ORGANISMIL DE CERTIFICARE SEL

8-mail: OfficeSeistex.ro; waw.rinaromania.ro Rucureati, Str. Leonte Anastasievici, nr.4D, sector 5, 2/40/9653/1999; RO 12251790

Pel/Pax: +60 21 6190651 / 54 / +40 21 6190353 / +40 726367806/ +40 741065156

Panote de lucru: Constanta, Str. Remus Opreanu nr.10A, bl.l.b., ac.A ap.i, Tel.: +40 341 170080 /+40 341 170081 Pax: +40 341 170082; Timisoara, Str. Paris nr 2A, Cladire Central Park,Cam. 204, Tel: +40 354 177551 Pax: +40 356 177 557





ELECTRICAL INSTALLATIONS







OUTDOOR AND INDOOR LIGHTING

- Great surfaces lighting
- Indoor industrial plant lighting
- Artistic and ornamental lighting
- Office lighting
- Public lighting





AERIAL AND GROUND CONVEYORS

- Aerial conveyors
- Ground conveyors
- Automatic stores



ELECTRICAL CONDUIT SYSTEMS FOR POWER DISTRIBUTION

- Power and lighting distribution
- Busbar system
- Feedings
- Great power machine feedings





ELECTRICAL INSTALLATIONS



HIGH VOLTAGE

- Substations and transformer centers
- Aerial and underground cable laying
- Rural electrification
- Pole transformers for small power
- High Voltage protections, metering equipment and capacitors
- Projects, assemblies and maintenance















ELECTRICAL INSTALLATIONS



ELECTRICAL PANELS

- Power switchboards
- Motor switchboards
- Lighting switchboards
- Signal panels
- Automation panels
- Metering equipment panels















PHOTOVOLTAIC INSTALLATIONS

- 84.848 solar modules
- 20 Inverters of 500 kW
- 20 Transformers of 500 kW
- 1 Transformer of 20 MW
- 539 km cable
- 340 km VELCRO



OPEL: WORLD'S LARGEST ROOFTOP SOLAR PHOTOVOLTAIC SYSTEM









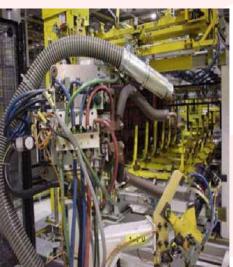
The FLUID MECHANICS department performs different types of work :

- * Waste water systems
- * Air conditioning and heating systems
- Collecting and pumping water systems



- * Installations and nets of **fluids** (Water, gas, steam, compressed air and water cooling)
- * Fire prevention systems
- * Turnkey solutions













POTABLE WATER INSTALLATIONS

- Complete installation of potable water pumping groups located in the building 61 (Opel Spain), including all the pipelines from the tank outlet to different buildings
- PUMPING GROUP EQUIPMENT:
- 4 stainless steel pumps, AISI 316 L with following performances (flow rate: 80.2 m3/h and manometer: 70,3 m height), and with all the accessories required for its control and subsequent maintenance
- 4 deposits of 750 liters for the installation of potable water have been installed. Deposits are replaceable, completely waterproof membrane of synthetic rubber flexible, suitable for water, which keeps in permanent isolation air water, excluding any pollution or dilution of the air in the water









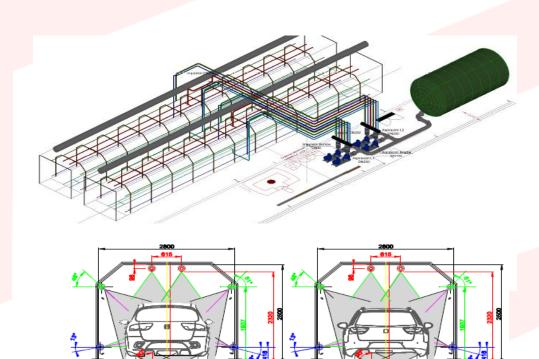


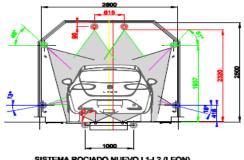
RAIN TEST TURNKEY INSTALLATION

Rain test tunnel for SEAT S.A.

Tunnel spray, to rain test, with an independent main cabinet control.

Regulation of pumps is done by frequency variators, getting stabilization of pressure and an energy saving





SISTEMA ROCIADO NUEVO L1-L2 (EXEO)

SISTEMA ROCIADO NUEVO L1-L2 (ALTEA XL)

SISTEMA ROCIADO NUEVO L1-L2 (LEON)







2 CHILLERS 2500KW INSTALLATION

Installation of two CARRIER-SANYO chillers model TSA - 16 TJ of 2.445 KW's cold, including:

- -Steam pipelines of 1 Kg/cm2 from the principal collector of power to the chiller plant entrance
- -Steam pipelines from the absorption group up to the current condensate deposit
- -Cold water pipes from distribution to the inlet manifold and the chiller outlet
- -Installation of the regulation elements.









ASSEMBLY LINES

- Development of the mechanical project. Design of transport systems with definition and calculation of drives
- Development of the electric project. Main panel design, decentralised stations and field equipment
- Control equipment configuration and communication networks
- Manufacturing, assembly, testing and start up for an optimal automation
- Documentation. Mechanical drawings, electrical drawings by Eplan, program listings, screen design, device parameterization and spare parts list in order to ensure maximum availability of the installation
- Certifications









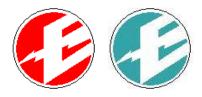
OVENS AUTOMATIC BUFFER

MECHANICAL EQUIPMENT

- Elevator with a travel of 5.000 mm approximatelly
 - Elevator with asynchronous gearmotor.
 - Manipulator equipped with :
 - Transfer with 3 positions for collecting empty pallets in the 3 lanes.
 - Pneumatic system for manipulating the ovens, with motorized transverse movement
- Three transport circuits, with two levels: the upper level for the ovens acumulation and the lower level for the pallets return. Simple chain accumulation conveyors with pneumatic stoppers.
- Ovens downward elevator (same design as elevator)
- Main metallic structures
- ☐ Fences, with access for maintenance, equipped with safety devices.







AUTOMATION



ELECTRICAL EQUIPMENT

- □ Central control panel y peripheral panel equipped with a Simatic S7-300 control PLC:
 - CPU 317F-2 PN/DP with Profinet and Profibus integrated networks, both with Profisafe MMC profile
- Decentralized boxes to distribute power and control, equipped with :
 - ■ET 200S station with Profibus interface, digital I/O modules for sensors and actuators, Safety I/O modules for safety equipment and emergencia areas
- ☐ Two operator controls equipped with HMI TP900
- □ Access door pressbuttons, general sensors.









TIRE ASSEMBLY LINE

Design, manufacturing, assembly and startup of the TIRE ASSEMBLY LINE with the following requirements:

- Cycle time: 12 seconds.
- Tire-cover-wheel conveyors with 1000 mm width. Conveyors with 0,6m/s speed except the last 1750 mm section with a variable 0,6-1m/s speed.





- Conveyors of pallets in supplying area and robot-wrapping area are prepared for 2 pallet models, 1200x1200 mm with 24Kg/unit and 1900x1200 mm with 38 kg/unit.
- The pallets conveyors speed is 130 mm/sg.
- The set of wheels maximum weight is 35kg.



AUTOMATION



MECHANICAL EQUIPMENT

Supplying area

Roller conveyor for the pallet reception. Approximate weight 800 kg

- Scissor lift for tire depalletizing
- Roller conveyor installed on the scissor lift for 1500x1500 mm pallets
- Speed conveyor : 130 mm/seg
- Conveyor approximate height: 530 mm
- Crane for metallic pallet exit, maximum 250 kg
- Supplying area fence with door
- The roller conveyors total length is 22 meters



- □ Robot-wrapper area
- ☐ Robot ABB IRB6700 155/2.85
- Prepared to manipulate 2 wheel sets per cycle, cover and pallet
- Fences with access door for manual pallet charge



AUTOMATION



WRAPPER - FILM COVER

Roller conveyor for pallets to wrapper entry.

Approximate weight 1.000 kg

☐ Wrapper Line :

- Rotary roller table
- Maximum height 2400 mm
- Wrapping of pallets
- Automatic load height detection
- Maximum weight : 1800Kg
- Siemens PLC and LCD creen
- Plunger for installation of vacuum suction cups
- Vacuum with suction cups for cover removal



☐ Film Cover:

- Hot wire Film cutter
- Electrical panel with Siemens PLC
- Labeler

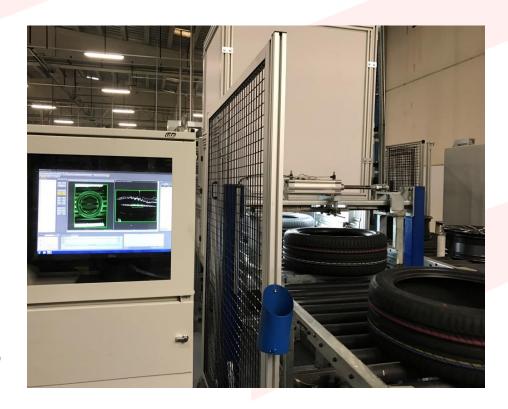






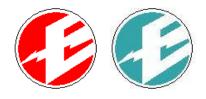
ELECTRICAL EQUIPMENT

- ☐ Control PLC : Simatic S7-300
- ☐ CPU 319F-2 PN/DP, Profinet and Profibus nets
- Touch Panel TP1200 Comfort.
- ☐ Two HMI Operator controls, equipped with:
 - Metal enclosure
 - Operation touch Panel, TP1200 Comfort
- ☐ Safety equipment:
 - Door security endpoints
 - Optical barriers of security in accesses to the palletizing, wrapping and exit areas
 - Emergency stop buttons



□ Artificial Vision System to verify the correct position in the transport band







The Automation department offers to our clients a complete study, choosing the right components and providing the specialized technical knowledge to perform their automation projects.

The Automation Department is composed by twenty-five programmers who coordinate their work with the mechanical and electrical departments. We have the necessary infrastructure to develop the different types of programming. PLCs, robots programming and SCADA systems.

PLC programming is the fundamental base of our work, using the following main brands:

SIEMENS

OMRON

MODICON

- MOELLER
- TELEMECANIQUE
- GENERAL ELECTRIC

BOSCH

ROCKWELL (ALLEN BRADLEY)

• SCHNEIDER







SIEMENS













PROGRAMMING DISPLAY AND OPERATIONAL ELEMENTS:

> SCADA DISPLAYING AND INDUSTRIAL PROCESS:

- WinCC (SIEMENS)
- CMI (CONTROLMATIC)
- Intouch (WONDERWARE)
- Monitor Pro, Vijeo Citect (SCHNEIDER)
- Proficy HMI/SCADA Cimplicity (General Electric)
- Zenon

PERIPHERAL PROGRAMMING:

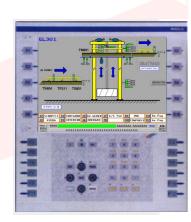
- MOBY
- LAZO DE CONTROL PID
- CONTROL DE POSICIONAMIENTO
- ROBOTS

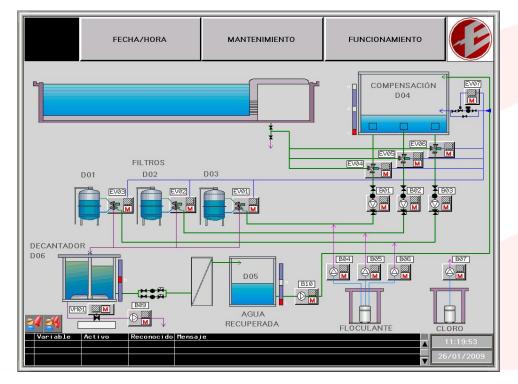
COMMUNICATION NETS:

- · AS-I
- PROFIBUS
- PROFINET
- ETHERNET
- MODBUS

> HMI OPERATOR PANELS :

- PXT 305 (PILZ)
- BT 20 (BOSCH)
- XBT (TELEMECANIQUE)
- OP 25, OP 37, MP377 (SIEMENS)









AUTOMATION OF PRESSLINE 18

11 FANUC robots were installed. With the old ABB line robots achieved an average 7 beats/min. Through the current change, we were able to increase the line to an average of 10.5 beats/min.

This included a complicated development to reach that increase of strokes, we performed a detailed engineering to adjust positions and precisions, in order to get a more effective, quicker and faultless line.









Headrest test station

It was designed to perform, using a pair of servo motors, a functional check of active safety system on all the seats that were manufactured by our customer. The test was divided in two attempts. In the first attempt the servomotors must press over the back **250N** without the safety system goes off, and in the second attempt it must push **750N** and the headrests must be jumped ahead a minimum distance of 36mm. This distance is measured by **two optic laser** pointing to the headrests of every seat pairs.





The PLC to control the process is a **Simatic IM 151-8PN/DP** equipped with digital and analogical inputs and outputs and communication ports Profibus-DP and RS485(Modbus).

The control unit for the servomotors is a **Simotion D425**, and the control unit for the interface with the operator is a **touch panel TP177STN 5,7**" bluemode.









Crossmember Fixing Station

Automation and control of the pokayokes operations that is required by the new option "Active headrest" of the front seats of Meriva NG. The process consists of the control and automatic checking of riveting sequence and screwing of the lateral crossmember. Initial phase of the integration in the manufacturing sequence of the seats by means of reading by scanner of LCB infrared of "Broadcast ID" in each seat.



EQUIPMENT

- 1 PLC Siemens S7-200
- 1 Touch Panel TP177







Assembly of rods and washers

Automation of the press task and coupling of all instruments that integrate the **Meriva rear seat** inclination regulation. Verification and control of all the shared pieces in the process. Machine whole compounds of pneumatic actuators which assembly in the same sequence as 20% backs as the 40% inclination.



□ EQUIPMENT

- 1 PLC Siemens S7-300.
- 1 Profibus slave block, EX250
- 1 Touch Panel TP177.





AUTOMATION



Wheel Conveyor at Opel Spain factory

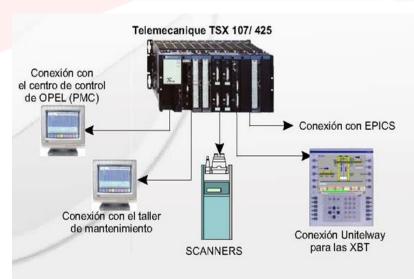
A 500 meter conveyor takes the wheels from the unload station to the final positioning into the car. During the path the wheels are unstacked, taking part in a conformity control, lubricated and finally distributed in two production lines.

The installation is completely automatized:

- 6 electrical panels and 6 Telemecanique TSX107 PLCs
- 40 modules electrical panels
- Around 5000 inputs and outputs
- 100 motors, 8 elevators and 20 variable speed drivers
- 2 lubricating wheel stations
- 1 automatized unload dock of trucks
- 3 bar code reading stations
- 1 control system with encoders

Press Line 10 Automation

This project was done at Opel Spain factory, assembly and programming of 8 electrical panels in connection with Siemens PLCs in order to control 10 ABB robots of the load and unload press in the lines 3, 10, 17 and 18 in building Z-61





AUTOMATION











Robot programming

38 robot programming in the press shop at Opel Spain factory. The necessary changes are done in order to adapt the robots on the press lines for new Monocab model production

The changes affect the robots, where 20 new pieces, the PLCs that operate the presses, displays and SCADAs, are programmed covering the lines

The new pieces were programmed in order to reduce the production time (strikes per minute) for the Monocab model production

Electrical Paths Automation Wax Building 38

The automation consisted of the new functional group introduction, modification and the existing one extension. All electrical and programming of the installation components has been designed, developed and implemented

This installation was done with the aim of bodywork transportation from the corrosion-inhibiting application cabinet output to the unload ground conveyors, which carry the bodywork to the final assembly building



The transportation was done by means of **500 meters of electric paths** divided in two lines and whose path elevators, direction changes, and **transfer station to the ground groups are crossing**. Two **octopus return lines** were taking part which add up to 200 meters







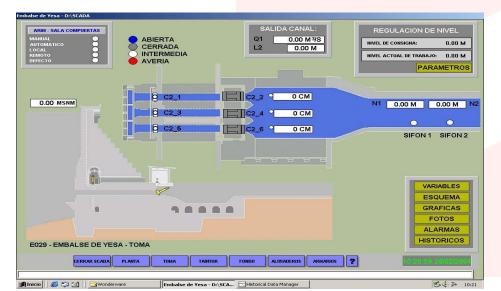
Lock gate automation in Yesa reservoir (Zaragoza, Spain)

- Irrigation Channel Gate: 3 lock gates in parallel for feeding the Bardenas irrigation channel with level regulation in absorber bowl previous to outlet lock gate
- Canal Outlet Gate: Lock gate type Tayntor, flow regulation according to applications from Irrigation Organization Canal.
- Reservoir Bottom Gate: Necessary outlet to get the ecological level in the basin of the Aragón river
- Emergency Outlet Gate: Outlets to regulate the water sheet height which have been spilled to the river when the dam is at maximum levels

Project equipment:

- 1 PLC S7/300 with decentralized input/output modules ET200M with optic and electric Profibus/DP
- HMI TP270 and Scada Intouch





AUTOMATION





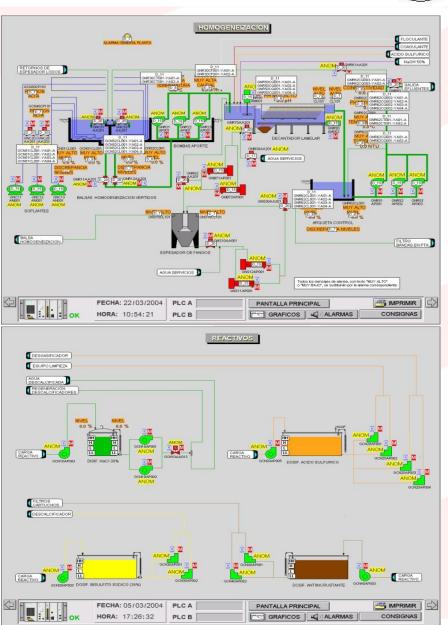
Automation of water and tributary treatment plant in the Combined Cycle Power Plant of Aceca (Toledo, Spain)

Automation for the treatment of feeding water to turbines by means of filtering, decalcifies, deionization, reverse osmosis and reactive dosage by means of the following components:

- 1 PLC Redundant Modicon Quantum with:
 - > 150 analogic signals
 - 900 digital signals
- 1 Scada Monitor Pro 7.2

Automation for the treatment of the tributary water by means of blending and reactive dosage with the following components:

- 1 PLC Modicom Quantum Redundant with
 - > 35 analogic signals
 - > 300 digital signals
- 1 Scada Monitor Pro 7.2







AUTOMATION



Automation of paper machine MP8 at Saica factory (Zaragoza, Spain)

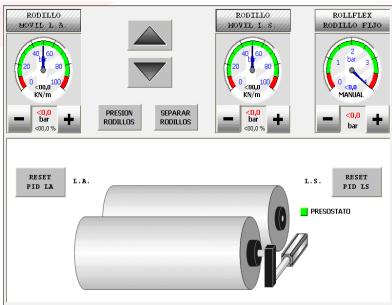
Automation of paper machine, as dry as humid zone, of the paper machine 8 (MP8) of Saica, by means of the mixture of paper paste, drying, extrusion and coil with the following elements:

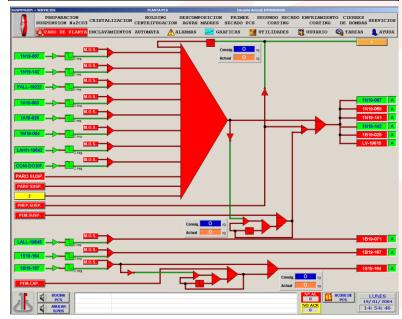
- 2 Siemens PLC S7- 414 3DP :
 - 96 analogic signals
 - 480 digital signals
- 5 HMI Siemens MP-370 15"

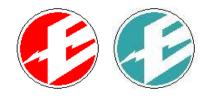
Displaying and control of PCS-30KTA plant of sodium percarbonate in FMC Foret

Displaying and control to prepare the suspension processes of sodium percarbonate, cristallize, centrifugalization, water descomposition, first drying, second drying, cooling, pump and service lock, by means of the following elements:

- 1 Schneider PLC Quantum 534
 - > 184 analogic signals / 352 digital signals
- 1 Scada Monitor Pro 7.0
- 1 Ethernet communication card







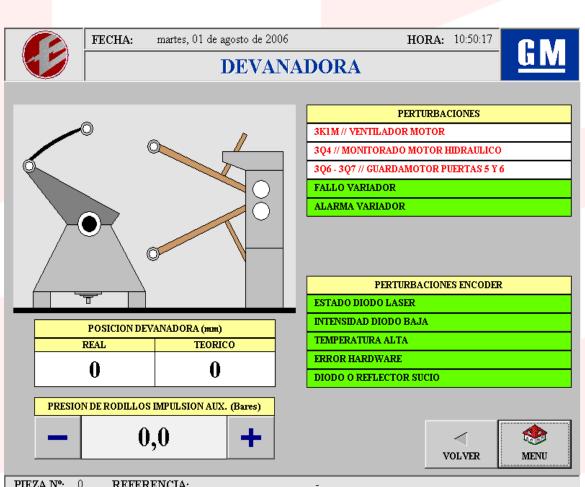


Slitting machine for the press building in Opel Spain:

Automation of process of inlet sheet into the slitting machines of the lines 8, 10, 14 and 16, by means of hydraulic and pneumatic regulation, the speed control and synchronization of inlet sheet into the slitting machines of press lines. 4 Pilz PLCs were installed raising the safety to 4 category.

Project equipment:

- · 4 Siemens PLC S7- 400
- 2304 digital signals
- 4 safety Pilz PSS SB PLC
- 2 Siemens touch screens MP-370
- 2 Siemens touch screens TP-37



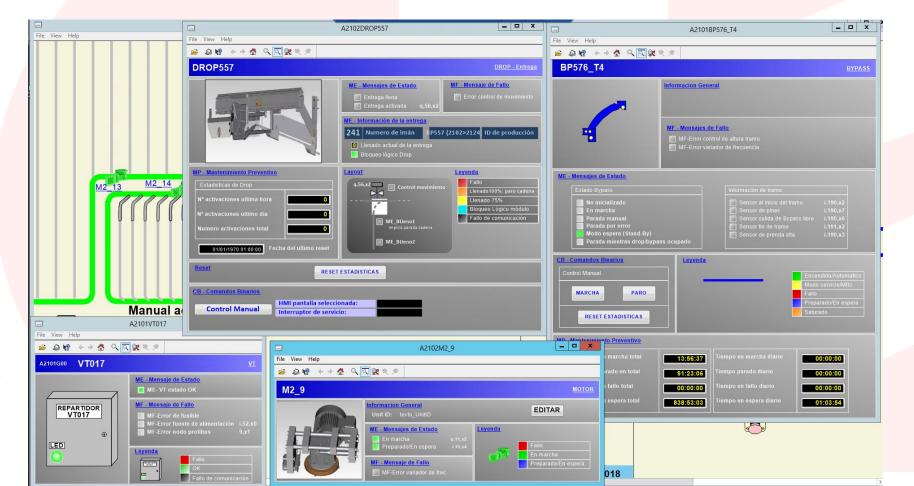






SCADA INDITEX Logística Plataforma Europa (Bershka, Stradivarius y ZARA)

The alarm viewer developed by our SCADA department allows the expansion of 10 extra points of information to be customized by the user improving the capabilities of the standard product Cimplicity of General Electric helping both maintenance and production





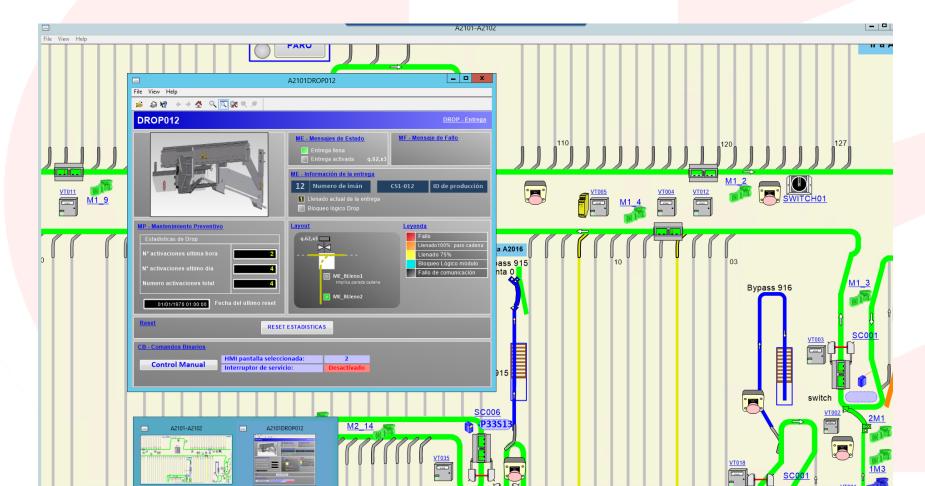






SCADA INDITEX Logística Plataforma Europa (Bershka, Stradivarius y ZARA)

The extra information is saved into a SQL Database by a process developed by our SCADA department that improves the capabilities of the Cimplicity product of General Electric, likewise a second process allows the reception of certain critical alarms via e-mail

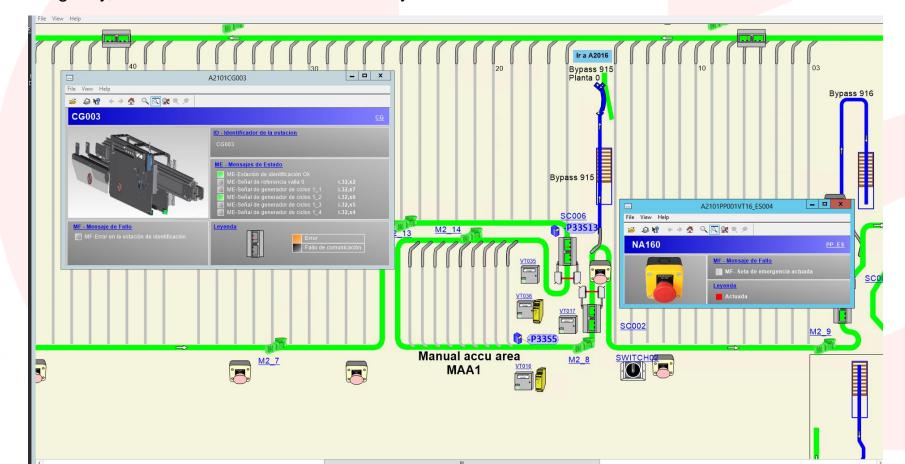






SCADA INDITEX Logística Plataforma Europa (Bershka, Stradivarius y ZARA)

Developed using General Electric Cimplicity (OOP), the project monitors 92 PLCs in four floors with a storage capacity of the largest in the world, the conveyor is displayed in green for correct operation, in yellow for a 75% saturation, in orange if it is stopped by a 100% saturation, blue paused, red stopped by emergency, black without connection to the system





ARTIFICIAL VISION



ARTIFICIAL VISION, MARKING, TRACEABILITY

Entrerríos Automatización offers global solutions of industrial traceability and artificial vision. We supply components and know-how, for the quick and professional achievements in the industrial identification tasks, traceability and optic inspection. We link the different components of the product range for a unique and customized solution in the control and traceability projects of our clients

We have the specialized work team with great experience in the different areas, which play a role in the traceability cycle and quality control

- Marking and industrial identification
- Code reading
- Optic controls with artificial vision
- Integral management of the traceability

Our main suppliers are:

- Sic-Marking
- Microscan
- Label Vision Systems
- Vision Control
- Vision Components
- etc ...







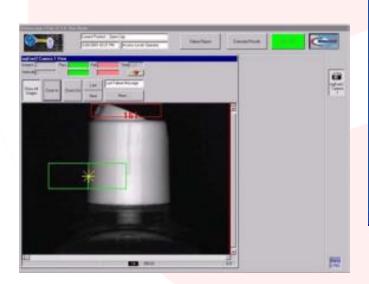
ARTIFICIAL VISION



Artificial vision

With our experience in artificial vision systems in the industry world, we provide solutions to OCR character recognition, level measurements, color identification, analysis and surface studies, etc., by means of elements as measurement laser, high resolution cameras (intelligent or with PC connection), lightings and optics:

- Complete camera range (intelligent or PC based ones)
- Lighting equipment: special lighting, telecentric optics, lasers
- User interface









ARTIFICIAI VISION



Identification methods

We provide different identification methods of our codes:

- Barcode
- PDF 417 Code
- Alphanumeric Code
- DATA MATRIX Code
- RFID (Radio Frequency Identification)

Marking equipment and systems

In order to make the marking of the product units we provide different methods:

- Laser systems (diode, lamp, CO2)
- Ink injection system Ink-Jet
- Ink printing system HP-Jet
- Marking by Micropuncture / Scratching
- RFID label record





















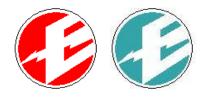






PRODUCTIVE MAINTENANCE, ELCTRICAL, MECHANICAL, ORDINARY CLEANING, INDUSTRIAL CLEANING AND CIVIL WORKS

*	Experience in corrective, preventive, predictive, 0 hours (overhaul) and running maintenance since 1986 in different factories such as:					
		OPEL - PSA - STELANTIS		LEAR		
		C.A.F.		JOHNSON CONT	ROLS	
		CLH-EXOLUM		TEKA		
		FMC FORET		PLASTIC OMNIUM		
		LECIÑENA		FAURECIA		
		BOSAL		ADIENT		
		VICASA		SEAT		
		SAICA		B/S/H/		
		TORRASPAPEL		AAA IBERICA		
		KEIPER IBERICA		ARCELOR MITT	AL	
		PROMA HISPANIA		MONDI		
		PANISHOP		EXIDE		
		VIA AUGUSTA		ARAVEN		
		MERCIER		CARRERAS		
		LAPESA		HMY YUDIGAR		
		SCHAKO		MOWI		





FACILITY MAINTENANCE STELLANTIS (OPEL ZARAGOZA)

Complete Facility factory maintenance (fire prevention, cooling, heating, industrial water, drinking water, LV, HV, etc...) and the water plant, the manpower for this services is **70 employees**.

TECHNICAL CLEANING PAINTSHOP EN STELLANTIS (OPEL ZARAGOZA)

Technical cleaning of the general installations and the air controlled delimited side, the manpower for this services is **55 employees**.

MAINTENANCE AT SEAT BARCELONA

LV electrical maintenances for all Seat facilities in Barcelona. (Seat Martorell, Seat Zona Franca, Centro Técnico, Seat Componentes, etc...), the manpower for this services is **15 employees.**

Mechanical maintenance for the conveyor transport lines for the assembly workshops 8,9, 10, the manpower for this services is **35 employees.**



MAINTENANCE AT VALEO ZARAGOZA

Complete facility maintenance of the infrastructure and the production process, we also does the process moulds and dies, the manpower for this services is 15 employees.

MAINTENANCE AT VALEO JAEN

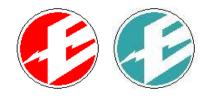
LV electrical maintenance for the complete facility and the electrical and mechanical maintenance for the assembly production process, the manpower for this services is **60 employees.**

MAINTENANCE AT CAF ZARAGOZA

Electrical and mechanical maintenance of the complete facility, the manpower for this services is **8 employees**.

MAINTENANCE AT HITACHI-ABB ZARAGOZA

Electric-mechanical maintenance of the complete facility and the production lines, the manpower for this services is **10 employees**.





INSTALLATIONS IN AREAS WITH HIGH RISK OF EXPLOSION (ATEX)

- Experience in electrical and control assemblies for the petrochemical sector, transportation and distribution of OIL&GAS
- Our clients are companies with very strict safety and operation protocols which are required in this sector
- Strategic works and "turnkey" projects for the entire electrical work of a new plant
- Leading companies in this sector trust in us such as CLH, Vopak Terquimsa, WÄRTSILÄ, Eltherm







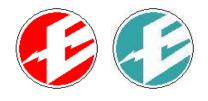


INSTALLATIONS IN AREAS WITH HIGH RISK OF EXPLOSION (ATEX)

- High voltage, low voltage, industrial electronics and lighting of large industrial areas
- Storage of fuel and chemical products
- Great power pumping and transportation as oil and gas pipelines, medium power pumping such as truck loading, etc
- Design, engineering and procedures related with this type of installations









INSTALLATIONS IN AREAS WITH HIGH RISK OF EXPLOSION (ATEX)

- ❖ New installation of CLH in El Arahal (Sevilla)
- Electrical installation for the set of tanks (Cubeto 10) of Terquimsa
- ❖ New CLH installations in Burgos
- ❖ New HV and LV assemblies in the CLH plant (Mahón)
- ❖ Hydrant: Torrejón Adolfo Suarez (Barajas) Airport
- * HV and LT electrical maintenance of CLH plants in Aragón and Cataluña









SAFETY IN MACHINES AND EQUIPMENT R.D. 1215/97

- Movement of industrial and heavy machinery
- Dismantling production lines
- Manufacturing of metal structures and custom machinery









SAFETY IN MACHINES AND EQUIPMENT R.D. 1215/97

- Corrective and predictive maintenance
- Repair of electrical breakdowns
- Pneumatic and hydraulic system maintenance











MANUFACTURE AND ASSEMBLY OF METAL STRUCTURES

- Technical and economic studies and development of projects for industry and civil works
- Design and calculation using advanced software: Autodesk MEP, Avanced Steel, Robot, 3D Solidworks Dassault
- Experience in manufacturing metal structures, both heavy and light according to the European standard EN-1090-2
- Experience in assembly and disassembly of metal structures, roofs and facades
- Assemblies of own equipment and of other manufacturers











MANUFACTURE AND ASSEMBLY OF METAL STRUCTURES









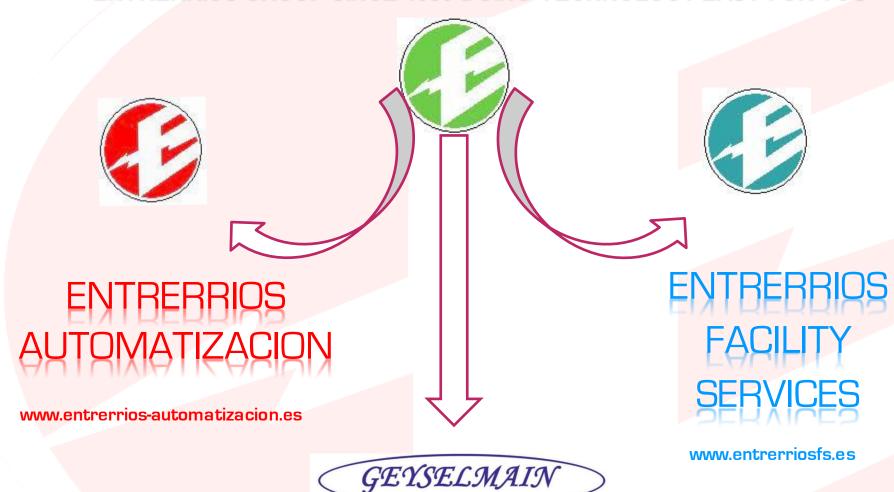








ENTRERRIOS GROUP SINCE 1986 DOING TECHNOLOGY EASY FOR YOU



www.geyselmainzaragoza.com