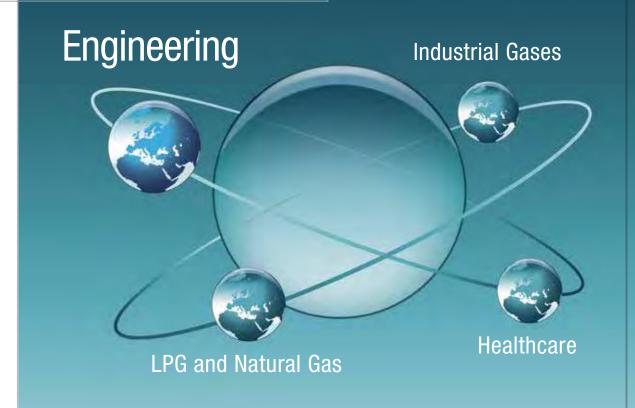


SIAD Macchine Impianti and the Engineering Business



We design and deliver efficiency

#### SIAD Macchine Impianti and the Engineering Business

### The SIAD Group

SIAD is an international chemical group active for almost 100 years in the businesses of **Industrial Gases**, **Engineering**, **Healthcare**, **LPG and Natural Gas**; in addition, it offers energy solutions and environmental management services.

Business diversification is complemented by geographical diversification, with a worldwide presence.

Sustainability, both economic and social, as well as environmental, is part of the SIAD Group's values.

Balanced and steady growth in terms of turnover and market diversification.

Always maximum attention to people and safety.

The link with cultural and scientific institutions in the different territories endorses the importance of creating value for society in the spheres in which we operate.

For the SIAD Group, being sustainable means being authentic with its values.

#### **SOLIDITY, INNOVATION, AUTHENTICITY AND DIFFERENCE**



Research, Technology and Innovation



Experience, Tradition and Strength



Commitment to Quality, Safety and the Environment



Geographical and Sector Diversification



Reliability, Professionalism and Expertise



Attention to Social and Cultural Issues



# SIAD Macchine Impianti and the SIAD Group Engineering Business Companies

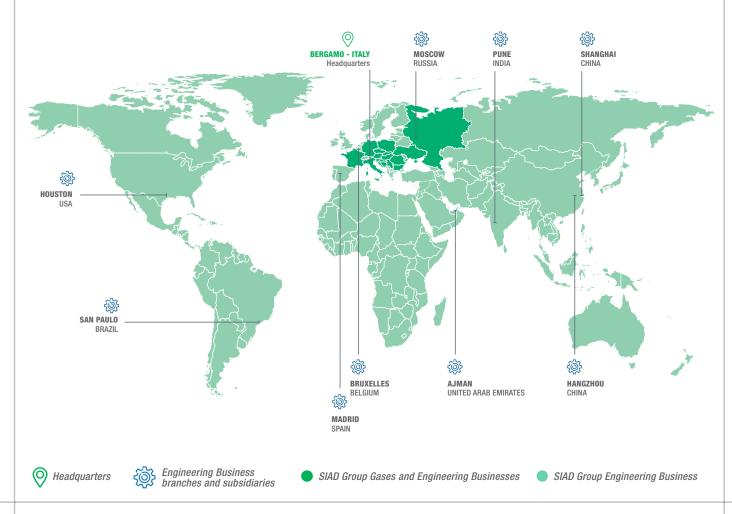
The Engineering Business of the SIAD Group is comprised of **SIAD Macchine Impianti** and twelve worldwide subsidiaries operating in the fields of ASU, LNG, CO<sub>2</sub> and biogas plants, process compression, and combustion systems. The **Tecno Project Industriale** subsidiary provides solutions for CO<sub>2</sub> and biogas and **ESA** for combustion systems.

**Tecno Project Industriale** has two subsidiaries: Tecno Project Industrial Ltda in Brazil and Pentatec S.r.l. in Italy.

**ESA** has two subsidiaries: ESA S.p.A. in Belgium and ESA Manufacturing in India.

SIAD Macchine Impianti with its subsidiaries and a global network of alliances provides equipment and service solutions to meet customers' needs seamlessly under our core operating philosophy of: one Brand, same Quality, multiple Locations.

SIAD Engineering (Hangzhou) Co., Ltd, engineering and manufacturing and SIAD Engineering Trading (Shanghai) Co., Ltd., international sales and domestic service and spare parts support Asia from their China locations. SIAD Macchine Impianti Middle East FZC, sales, service and spare parts, supports the Middle East from its UAE location. SIAD Americas LLC, sales and service supports the Americas from its US location. SIAD Macchine Impianti Sucursal de España, a local office, supports Spain and Portugal and Russian Branch of SIAD Macchine Impianti, a local office in Moscow, supports Russia and CIS Countries.



#### SIAD Macchine Impianti and the Engineering Business

Reciprocating Compressors for process gases and air and Instrument Air Packages

**Compressors Division** 

Reciprocating compressors for Mission Critical Services

Low- to high-speed oil-free product solutions

Thousands of compressors in operation throughout the world

SIAD MI compressors are designed and manufactured according to the "lean" methodology, which combines a modular design with the integration of digital systems, minimizing waste and maximizing performance. This is supported by the Remote Assistance and Remote Monitoring Services, remote services of continuous assistance plus the maintenance of compressors by SIAD MI technicians.

Safety, reliability, efficiency, availability, maintainability and connectivity: these are the most important features incorporated with SIAD MI's reciprocating compressors for process gas and air, thanks to a robust, long and well-documented process that is the result of decades of detailed experience and significant engineering achievements.





BOG compressors - Courtesy of DIG (Depositi Italiani GNL - Italian Coastal LNG Deposits), Ravenna, Italy

### RANGE OF RECIPROCATING COMPRESSORS FOR PROCESS GASES AND AIR (also according to API618 and ISO 13631 standards)

(also according to Al 1010 and 100 13001 standards)		
Compression stages	1/2/3/4/5/6	
Maximum suction volume	90 000 m³/h	
Maximum power	8 700 kW	
Maximum delivery pressure	600 bar	
Cylinder configuration	vertical, V, W, horizontal	
Shaft speed	from 300 to 1 500 rpm	

INSTRUMENT AIR PACKAGES		
Maximum power*	2 400 kW	
Maximum delivery pressure	80 bar oil-free	
Maximum suction volume	6 000 Nm <sup>3</sup> /h	

<sup>\*</sup> The data refers to package units with a single compressor. Additional flow rates are available for two or more compressors in parallel.

# Oil-free Reciprocating Compressors for blow molding r-PET and PLA bottles



#### **Compressors Division**

VITO Next: the "next" generation is green and smart

More than 2,700 installations operating on blow molding lines, in more than 150 countries worldwide





GREATER EFFICIENCY

The lowest specific

consumption

with additional saving

options



ENHANCED SUSTAINABILITY Compactness (small footprint) Low CO, emissions



CONNECTIVITY
with SIADMI4U remote
monitoring and
diagnostic platform



ENHANCED RELIABILITY Minimum vibrations



SAFETY Total operator protection



EXTENDED LIFETIME Longer lasting components



CONTINUOUS PRODUCTION (AVAILABILITY) 8,000 h of continuous operation



OPTIONS AVAILABLE
Energy audits
No-vibration package
Filter silencer unit

After the success of VITO®, the first compressor specifically designed for r-PET and PLA business, the "Next" generation is a **high performing, reliable** compressor built to be **sustainable** and **connected**, at every level.

VITO Next is an enhanced product also in terms of longer lasting components, reduced maintenance costs and greater adaptability in harsher ambient conditions.

OIL-FREE RECIPROCATING Compressors*	HIGH PRESSURE	LOW PRESSURE
Compression stages	3	2
Maximum suction volume	6 000 m³/h	2 100 m³/h
Maximum power	900 kW	220 kW
Maximum delivery pressure	42 bar (a)	16 bar (a)
Cylinder configuration	Vertical, V, W, Horizontal	Vertical

<sup>\*</sup> Completely oil-free ("class 0" ISO 8573) dry air supply.

### Air Separation Units

Air Separation Units and the LNG Plant Division

High purity Oxygen, Nitrogen and Argon

High process efficiency

Standard and tailor-made solutions conforming to local and international standards

SIAD Macchine Impianti offers Air Separation Units (ASUs) with **cryogenic technology** for the production of **high purity** industrial gases in liquid and gaseous phase.

The Company has developed its own **expertise** for selecting and sizing equipment and defining the **most flexible, technical solutions.** 

Our strong point is our ability to coordinate our clients' needs with the company's longstanding experience, thus enabling us to provide a design tailored to specific requirements, based on a constant follow-up of project development. This is also made possible by our versatile, expert design team and our network of selected collaborators worldwide.

For this reason we are regarded as a highly reliable partner when it comes to facing energy transition and renewable energy challenges, since we offer the most advanced products developed through ongoing research and extensive support of the latest technical and digital solutions.



#### RANGE OF OXYGEN, NITROGEN AND ARGON ASUS

Production and flow rates	- Oxygen from 500 Nm³/h to 90 000 Nm³/h (17 - 3 080 TPD) - Nitrogen from 1 500 Nm³/h to 270 000 Nm³/h (45 - 8 100 TPD) - Argon recovery 92%
Purity	- Oxygen 99.95% and beyond - Nitrogen < 1 ppm $\rm O_2$ - Argon < 1 ppm $\rm O_2$

#### RANGE OF OXYGEN AND NITROGEN ASUS

Production and flow rates	- Oxygen from 500 Nm³/h to 90 000 Nm³/h (17 - 3 080 TPD) - Nitrogen from 1 500 Nm³/h to 270 000 Nm³/h (45 - 8 100 TPD)
Purity	- Oxygen 99.9% and beyond - Nitrogen < 1 ppm $\rm O_2$

#### **SMART LIQUID PLANT**

Production and flow rates	- Liquid Oxygen from 330 Nm³/h to 2 500 Nm³/h (12 - 90 TPD) - Liquid Nitrogen from 600 Nm³/h to 3 000 Nm³/h (19 - 98 TPD)
Purity	- Oxygen 99.6% - Nitrogen 99.999%

#### OXYSTEEL, OXYCEMENT, OXYPAPER

Production and flow rates	- Oxygen from 800 Nm³/h to 16 000 Nm³/h (27 - 540 TPD) - Nitrogen can be supplied on request
Purity	$\begin{array}{l} \text{- 95\% for gaseous 0}_2 \\ \text{- 99.5\% for liquid 0}_2 \\ \text{- 99.9\% for gaseous N}_2 \end{array}$

TPD = Tons Per Day

SIAD MI offers the customer the necessary technical and management assistance to complete the installation of the Unit in an optimal way, ensuring supervision during erection, commissioning, start-up and performance test. The process control system is automated and allows the remote adjustment of the parameters of plant operation to actual production needs at all times. The remote assistance and monitoring service guarantees a prompt response in case of sudden requests.



Smart Liquid 2.0, courtesy of Nippon Gases Norway

## Nitrogen units with Cryogenic technology

Air Separation Units for the production of high volume flow rates with high purity nitrogen in gaseous phase. This is employed in all cases where it is necessary to ensure high purity and continuity of supply, due to the production of back-up liquid nitrogen.

RANGE OF NITROGEN ASUS		
Production and flow rates	- Nitrogen from 350 Nm³/h to 50 000 Nm³/h (8.5 - 1 500 TPD)	
Purity	- up to < 1 ppm 0 <sub>2</sub> in Nitrogen	

 $TPD = Tons \ Per \ Day$ 



# Natural Gas Treatment and Liquefaction (LNG) Plant

Air Separation Units and LNG Plant Division

SMART LNG: small and medium size Natural Gas Liquefaction plant

Thanks to the extensive experience and expertise gained in the context of **cryogenic technologies**, SIAD Macchine Impianti has developed a range of **SMART LNG** plant for the production of liquefied natural gas.



SMART TB-LNG BOG re-liquefaction plant Courtesy of DIG (Depositi Italiani GNL - Italian Coastal LNG Deposits), Ravenna, Italy

# Reliable and competitive cryogenic technology

Our technical and engineering know-how has enabled us to develop a reliable, efficient, simple and safe range of system solutions for LNG, based on different technologies.

The systems of the SMART LNG range, suitable for the liquefaction of natural gas, have also been successfully installed in coastal LNG deposits to manage the service of re-liquefaction of evaporated natural gas, the so-called BOG (Boil-Off Gas).

RANGE OF "SMART LNG" PLANT	LNG PRODUCTION		
NAME OF SMANT LING FLANT	Nm³/h	TPD	kg/h
SMART LIN-LNG Plant involving the use of liquid nitrogen (LIN) as the cooling factor	50 - 280	1 - 5	40 - 208
SMART DCE-LNG Technology of direct compression, cooling, expansion and liquefaction of the methane	280 - 560	5 - 10	208 - 415
SMART TB-LNG Nitrogen recycling plant with expansion turbine and booster	560 - 33 600	10 - 600	415 - 25 000

TPD = Tons Per Day

With its LNG plants, SIAD MI is contributing to the achievement of the objectives in the 2030 European agenda relating to the decarbonization of sea transport and heavy land transport

# Biomethane Treatment and Liquefaction (bio-LNG) Plant

Pure LNG\*

Included in the biomethane supply chain, thanks to the skills of several SIAD Group companies, Tecno Project Industriale (TPI), with the support of SIAD MI technology, offers an innovative range for the liquefaction of biomethane: namely the **Pure LNG line.** 



Pure LNG units: safe and efficient small and medium sized plant solution for the liquefaction of biomethane (bio-LNG)

RANGE OF "PURE LNG" PLANT	BIO-LNG PRODUCTION		
NAME OF FUNE LING FLANT	Nm³/h	TPD	kg/h
Pure LNG-LIN Plant involving the use of liquid nitrogen (LIN) as the cooling factor	50 - 280	1 - 5	40 - 208
Pure LNG-DCE Direct compression, cooling, expansion and liquefaction bio-methane	280 - 560	5 - 10	208 - 415
Pure LNG-TB Nitrogen recycling plant with expansion turbine and booster	560 - 1 400	10 - 25	415 - 1 040

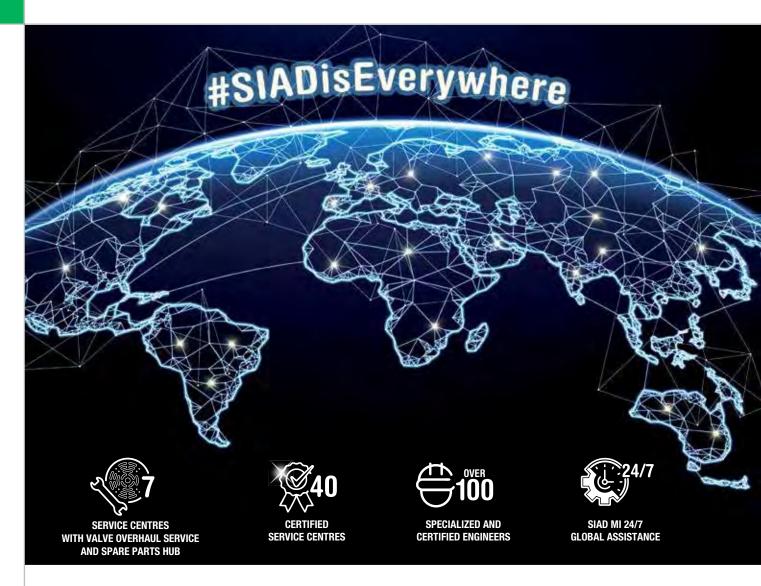
TPD = Tons Per Day



Pure LNG-LIN biomethane liquefaction plant

### Global technical support services

Global Service Division



Keeping the compressor or plant perfectly efficient results in lower operating costs over their entire service life.

Which is why, right from the design phase of its products, SIAD Macchine Impianti focuses on three factors:

- extending the MTBM (Mean Time Between Maintenance) to the maximum
- minimizing plant downtimes
- ensuring that compressors and plant work in a reliable and economical way for decades.

Nowadays knowing end-users' needs and keeping with our clients an ever closer relationship, are becoming key factors. For this reason we are offering a full range of integrated service solutions, including digital services (such as remote assistance, remote testing, remote monitoring and diagnostic services), an international network of technicians (directly trained and managed by HQ), total care contracts and a 24/7 proactive helpdesk.

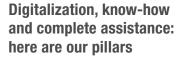


#### A FULL RANGE OF INTEGRATED SERVICE SOLUTIONS

	Commissioning and Start-up
ON SITE AND REMOTE SERVICES	Maintenance and Supervision
	Extraordinary repairs in the event of an emergency or faults
	Use of smart glasses for resolving any anomalies
OEM GENUINE SPARE PARTS: OUR STRENGTH AND PROVEN REPUTATION	Over 15 000 Spare Parts Items in Stock
	Specific oil for SIAD MI compressors
ON-GOING ENGINEERING	Latest generation Spare Parts for the lowest lifecycle cost
	Compressor Refurbish, Re-rate, Upgrade and Revamping. Complete overhaul of the compressor "As NEW"
	Energy saving diagnosis and implementation of specific solutions
SIADMI4U	Remote monitoring and diagnostics system
TOTAL CARE CONTRACTS (tailor-made)	Including on site and remotely plus ongoing engineering services in addition to mechanalysis and predictive maintenance activities
GLOBAL ASSISTANCE 24/7	24/7 Proactive Help desk from any place in the world at anytime CALL +39 02 91947767
TRAINING COURSES	In our Training Center, or at the End Users' site and online (webinars)
	We supply customized documentation
	Professional trainers

#### SIADMI4U Connective compression, anywhere

**SIADMI4U** is a remote monitoring and diagnostic system that enables you to view, analyse and manage in real time, through a smartphone, a tablet or a PC, the operating parameters of a compressor or a plant. Besides the real time visualization of parameters, it enables you to view the data history via graphs and tables. It is able to process customized periodic reports and to inform users of any anomalies or notifications, allowing them to intervene promptly on the machine.





#### It offers many advantages

- Optimization in the planning of maintenance interventions
- Reduction of downtimes, plant management and maintenance costs
- ✓ Less kilometres travelled to benefit the environment (it's ECO-FRIENDLY)
- ✓ Direct connection between the site and the team of specialists at SIAD MI.

#### It is smart and user-friendly

- Custom dashboards can be created quickly and easily
- ✓ Real time notifications via the APP allow the user to be promptly informed in case of unforeseen events
- Data can be stored in the Cloud and exported in any format.

### CO, and Biomethane plant

#### TPI Tecno Project Industriale

Tecno Project Industriale S.r.I. (TPI), a company founded in 1987 and based in Curno, Bergamo, is an international leader in the engineering and construction of innovative CO<sub>2</sub> recovery and reuse plant and biogas upgrading plant. The company has a branch in Brazil, in São Paulo, Tecno Project Industrial Ltda, and a subsidiary in Italy, Pentatec S.r.I., dedicated to the design and production of gas analysis systems.



TPI is a versatile company that, thanks to its research and development department, offers all-round solutions for CO<sub>2</sub> and Biomethane in order to guarantee an efficient product for the food and processing industry. TPI is specialized in the design, production and installation of CO<sub>2</sub> Recovery and Purification plant for all its applications including food, and over the years has achieved the important goal of having installations throughout the world.

TPI also designs and builds CO<sub>2</sub> Production and CO<sub>2</sub> Extraction Plant and is able to supply all the equipment necessary for the use of CO<sub>2</sub>, such as: storage tanks, analyses, evaporators, cylinder/truck loading stations and dry ice machines.

Since 1987, experts in plant for the Treatment, Recovery and Purification of CO<sub>2</sub>.

#### ${\rm CO_2}$ PLANT

CO2 Recovery Plant

CO<sub>2</sub> Production Plant

CO<sub>2</sub> Extraction Plant

CO<sub>2</sub> Purification Plant

Liquefaction and Stripping systems for CO,

Evaporators for CO,

Gas analysis systems

#### **BIOGAS UPGRADING PLANT**

Biogas upgrading plant for Biomethane Recovery

#### **DEOXIDATION SYSTEMS**

#### **Refrigeration Units**

Chillers



#### Biogas Treatment plant for the environmental business

TPI is able to design and build Biogas Upgrading plant with membrane technology or absorption with amines, obtaining both Biomethane for feeding into the network or liquefaction, and food grade CO<sub>2</sub>.



#### **Engineering services**

- Design and implementation of custom-made installations
- ✓ Research projects in the field of gas treatment with implementation of pilot plant
- ✓ Technical assistance for installation and start-up
- Scheduled maintenance contracts
- ✓ Remote assistance via PC and 24/7 telephone assistance.



#### **PENTATEC**

Pentatec is the Tecno Project Industriale company that provides gas analysis tools and systems for quality control of products for the following industries:

- beer and beverages
- industrial gases
- biomethane.





## Complete solutions for industrial combustion

ESA S.p.A. designs and manufactures innovative combustion solutions using traditional fuels or hydrogen, oxygen and carbon free fuels. Established in 1977 in Italy, the company operates with a commercial branch in Belgium (Belgian Branch of ESA S.p.A.) a manufacturing unit in India (ESA Manufacturing Pvt. Ltd.) and a worldwide network of dealers.



Thanks to establishing the largest European Research Center for combustion technology, ESA is committed to deliver combustion products, technologies and solutions which are sustainable, effective and efficient for a wide number of industries.

## 40 different families of industrial burners

- Standard and customized models up to 32 MW, in low and ultra low NOx versions
- ✓ For every fuel and oxidizer
- ✓ Recuperative and self-recuperative also for radiant tubes and with flat flame.
- Regenerative burners
- ✓ High velocity burners, diffusive or flat flame burners, premixed linear, infrared, and for radiant tubes burners.

## Certified electronic equipment

- ✓ EN298 certified electronic controls
- ✓ Ignition and detection systems with permanent control (EN746 II)
- Communication boards and serial protocols, pulse firing cards
- 3-position and/or modulating servomotors, pressure transmitters, UV lamps.



## Certified instruments and accessories

- ✓ EN88 certified zero governors and air/gas regulators
- Venturi and T proportional mixers
- ✓ Valves, solenoid valves, accessories for gas lines and burners
- Calibrated flanges.



## Engineering and automation

- Supply lines on skids up to DN300 in accordance with PED, EN746, ATEX, ASME
- ✓ Software up to level SIL3
- Control panels, instrumentation and other hardware components.



#### **Technologies**

- ✓ Test center with 7 test ovens up to 5MW, atmospheric analyzers, CFD software "fluent"
- Control and data acquisition system
- ✓ Atex supply facilities for Hydrogen; Oxygen tank with evaporator. Liquid (bio) fuels tanks of any type, radiant tubes
- R&D on "Mild" combustion, SCR/SCNR, heat recovery & regeneration, pulse firing.

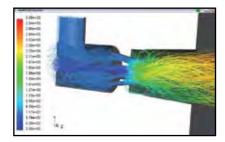


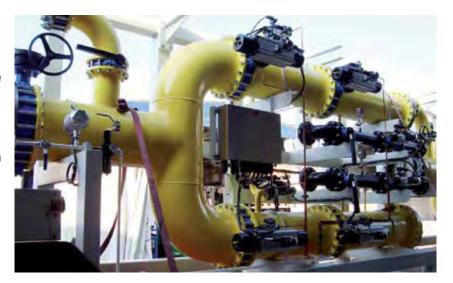
#### Sectors served

ESA products and technologies are used in ferrous and non-ferrous metallurgy (aluminum, copper and lead), ceramics and bricks, glass, hot dip galvanizing, bakery, heat treatments and forging, incineration and post-combustion, petrochemical and chemical, limestone and mining...

#### Services

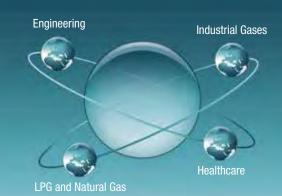
- ✓ H&S/compliance refresher courses
- ✓ Technical assistance, repairs, maintenance, commissioning
- Complete documentation
- ✓ Full warranty.







### The SIAD Group



#### **Industrial Gases**

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GPS: N 40 38.42 - E 14 51.52

#### LPG, Natural Gas and Biomethane

SLOVENIA ISTRABENZ PLINI d.o.o. Sermin 8/a SI-6000 KOPER Tel. +386 5 6634600 - Fax +386 5 6634699 www.istrabenzplini.si - info@istrabenzplini.si GPS: N 45 33.10 - E 13 45.53

GFS: N 46 33.10 - E 13 40.53 PLINARNA MARIBOR d.o.o. Plinarniška ulica 9 SI-2000 MARIBOR Tel. +386 2 2284300 - Fax +386 2 2522272 www.plinarna-maribor.si - info@plinarna-ma GPS: N 46 55.92 - E15 65. 71 narihor si

GTG Plin d.o.o. Bukovžlak 65b SI-3000 CELJE Tel. +386 (0)3 42 60 760

wwww.gtg-plin.com - prodaja@gtg-plin.com GPS: N 46 24.15 - E 15 30.02

BOSNIA AND HERZEGOVINA ISTRABENZ PLINI d.o.o. Polivaj bb BiH-71370 BREZA Tel. +387 32 789300 - Fax +387 32 789302 www.istrabenzplini.ba - istrabenzplini@istrabenzplini.si GPS: N 44 00.17 - E 18 15.1

CROATIA ISTRABENZ PLINI d.o.o.

Pristanište Podbok 3 Pristaniste Poutono 3 HR-5122 BAKAR Tel. +385 51 455300 - Fax +385 51 761175 www.istrabenzplini.hr - istrabenzplini@istrabenzplini.hr GPS: N 45 17.37 - E 14 33.54

SERBIA
ISTRABENZ PLINI d.o.o.
Despota Stefana 12
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Tel. +381 11 3340949 - Fax +381 11 3341199
GPS: N 44 48.59 - E 20 27.47

DIME Società Agricola S.r.I. Via San Bernardino, 92 IT-24126 BERGAMO Tel. +39 035 328111 GPS: N 45 40.57 - E 9 39.44



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