



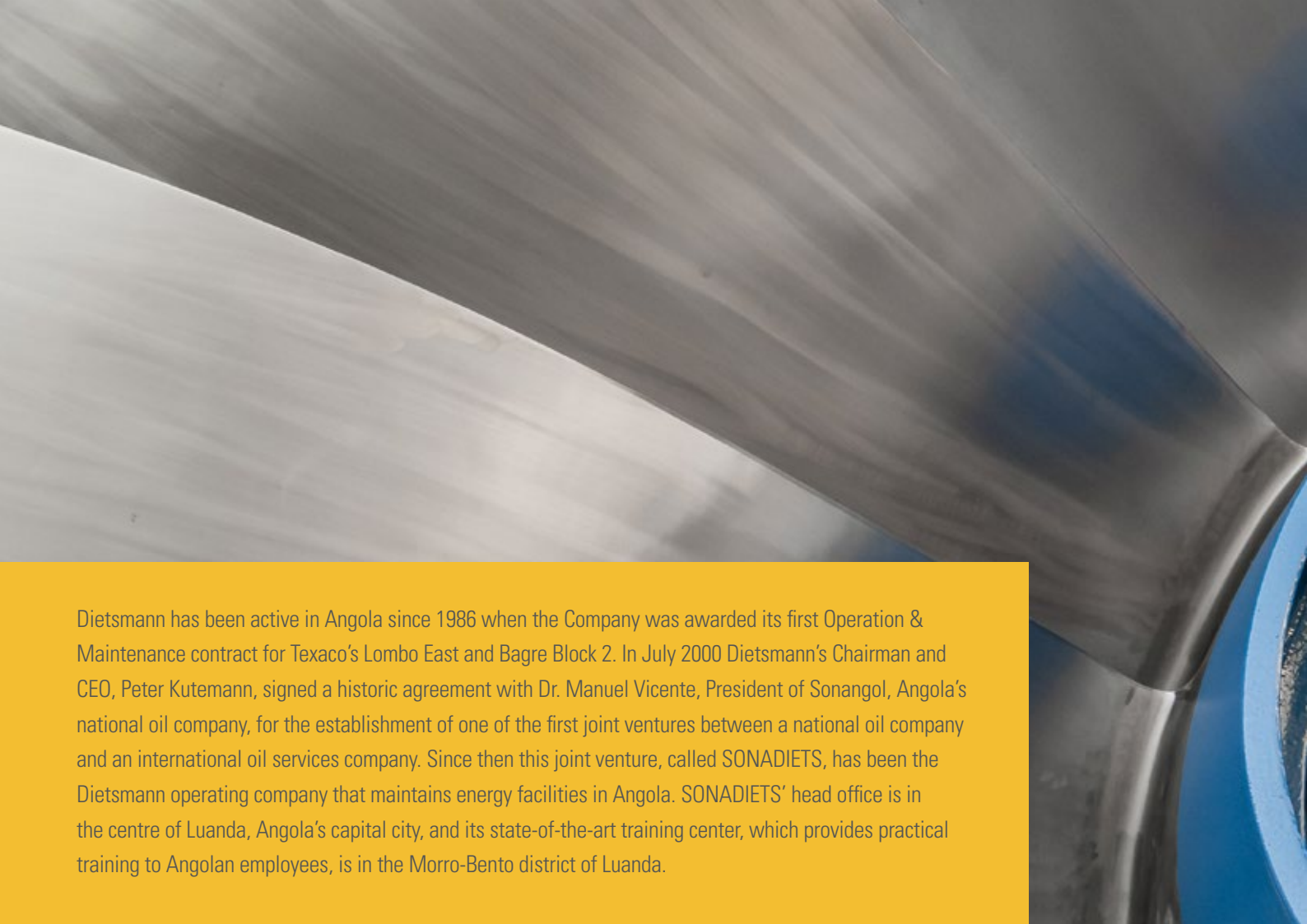
# DIETSMANN TECHNOLOGIES

ELECTRICAL & INSTRUMENTATION ENGINEERING  
AND ROBOTICS EXPERIMENTATION FACILITIES

[www.sonadiets.com](http://www.sonadiets.com)

SMART MAINTENANCE SOLUTIONS FOR CONTINUOUS PRODUCTION PLANT

**Sonadiets**  
A JOINT VENTURE COMPANY OF SONANGOL AND DIETSMANN



Dietsmann has been active in Angola since 1986 when the Company was awarded its first Operation & Maintenance contract for Texaco's Lombo East and Bagre Block 2. In July 2000 Dietsmann's Chairman and CEO, Peter Kutemann, signed a historic agreement with Dr. Manuel Vicente, President of Sonangol, Angola's national oil company, for the establishment of one of the first joint ventures between a national oil company and an international oil services company. Since then this joint venture, called SONADIETS, has been the Dietsmann operating company that maintains energy facilities in Angola. SONADIETS' head office is in the centre of Luanda, Angola's capital city, and its state-of-the-art training center, which provides practical training to Angolan employees, is in the Morro-Bento district of Luanda.

## AN INTRODUCTION

Sonadiets Limitada, the joint venture between Sonangol and Dietsmann, is the Dietsmann operating company that maintains energy facilities in Angola. Dietsmann is the leading independent Operation & Maintenance specialist for continuous-production plant in the oil & gas, conventional and nuclear power generation and mining industries. Dietsmann Technologies, an operating company of Dietsmann, provides electrical and instrumentation engineering and construction services for these industries' installations. In addition, the Company experiments with robotics and drone applications for maintenance inspection innovation.



- Electrical and instrumentation services comprise the design, construction and testing of electrical switchboards, marshalling cabinets, control cabinets and industrial process automation systems;
- HVAC and pressurization services include custom-designed industrial air conditioning and climate control systems;

- Dietsmann Technologies also services clients' spare parts, machinery, equipment, components and materials procurement and repair requirements.

Besides supporting the Group's Operation & Maintenance projects, Dietsmann Technologies directly serves external clients including (inter)national energy companies, major engineering, procurement and construction contractors and Dietsmann's joint-venture partners.



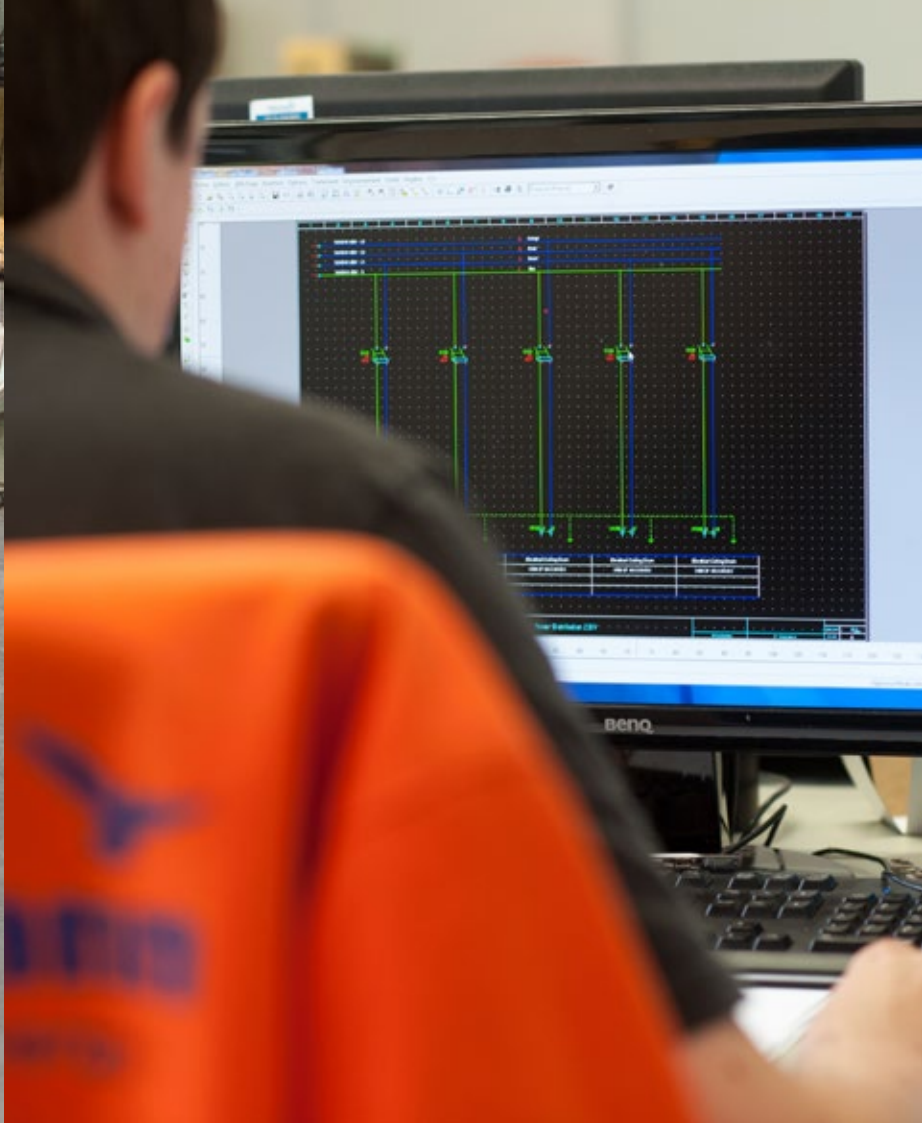
## OUR FACILITIES

### HEADQUARTERS AND SATELLITE FACILITIES

Headquartered in a 24,000 m<sup>2</sup> engineering and construction facility in Salies du Salat, in south-west France, Dietsmann Technologies works closely with the Group's maintenance and inspection engineering offices in nearby Toulouse. In addition, we work on substantial ongoing projects with our clients and contractor partners from permanent satellite facilities in Gabon, the Republic of Congo and Angola. We have engineers and technicians ready for mobilization to turnkey projects anywhere in the world.

### DIETSMANN QUALIFICATION COLLEGE

The Dietsmann Qualification College in BousSENS, France, provides customized training and qualification programs for the oil & gas, power generation and mining industries as well as other industrial sectors. The 1,000 m<sup>2</sup> of training area includes 500 m<sup>2</sup> of workshops equipped with all the relevant maintenance instruction materials plus a dedicated, fully-equipped metrology simulation/instruction room.



## **ROBOTICS TECHNOLOGY EXPERIMENTATION AND TESTING**

The College also features special robotics technology experimentation and testing facilities. Within the foreseeable future, robots will be increasingly used for tasks such as Non-Destructive Testing during inspections of pressure vessels, storage tanks and larger diameter piping, and the cleaning of equipment at less-accessible locations. These developments, along with the use of Augmented Reality (AR) and Virtual Reality (VR), will be instrumental in enabling the oil & gas industry to work more efficiently and effectively.



Laurent Pascal/TOTAL



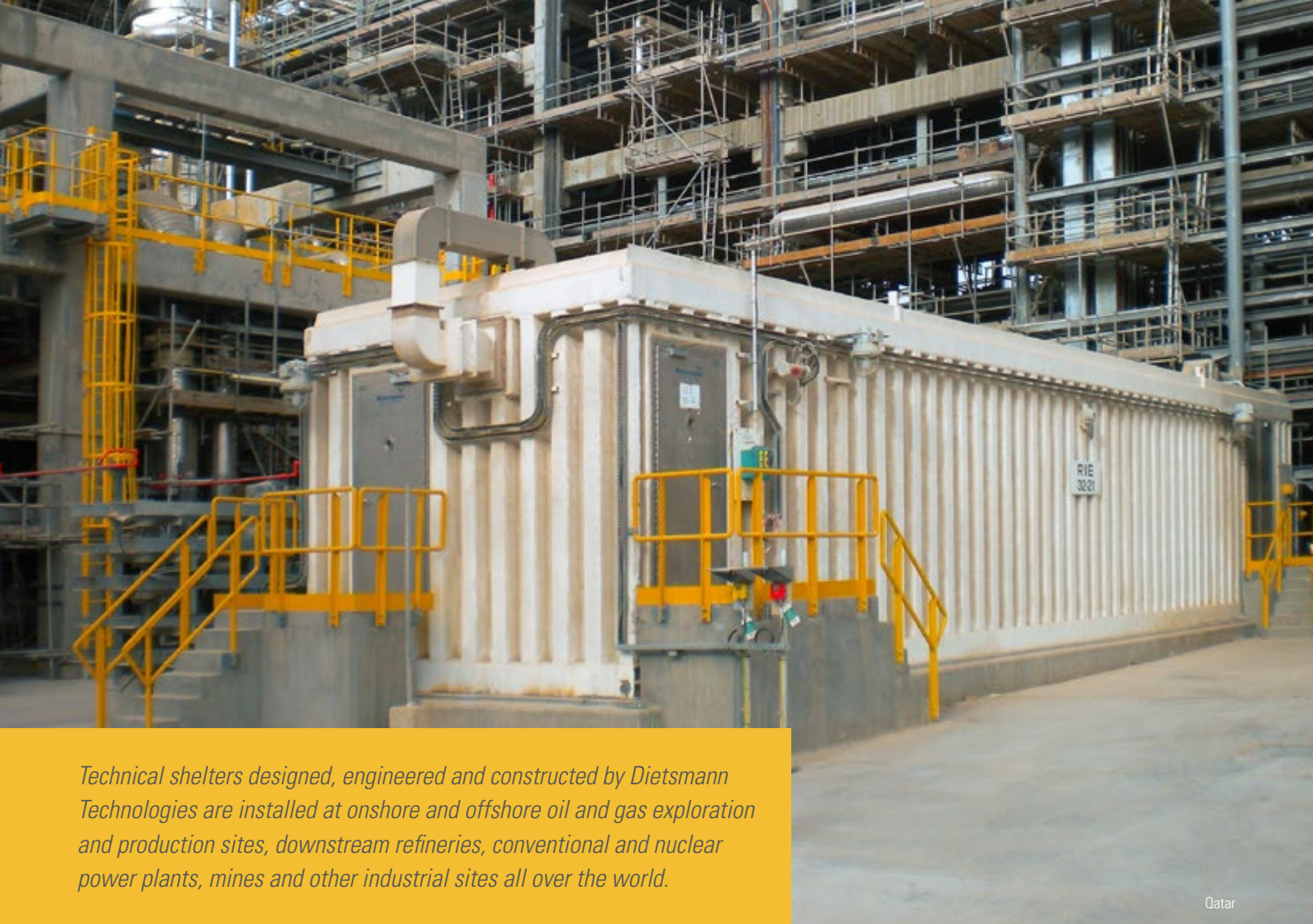
## ELECTRICAL & INSTRUMENTATION **ENGINEERING AND CONSTRUCTION**

Our turnkey electrical and instrumentation engineering and construction projects range from:

- the preparation of drawings and diagrams and the carrying out of detailed studies;
- the assembly in our workshops of electrical switchboards, marshalling cabinets, control cabinets etc.;
- on-site construction, end-to-end testing, calibration and adjustment, commissioning and the provision of technical assistance to operation and maintenance staff.

For PLC systems, our services include:

- functional studies;
- the programming of systems from all major manufacturers (including ABB, Siemens, Quantum, Schneider-Télemécanique, Allen Bradley, etc.);
- site installation and testing;
- (pre-)commissioning and launch assistance;
- training.



*Technical shelters designed, engineered and constructed by Dietsmann Technologies are installed at onshore and offshore oil and gas exploration and production sites, downstream refineries, conventional and nuclear power plants, mines and other industrial sites all over the world.*

Qatar

## DESIGN, ENGINEERING AND CONSTRUCTION OF TECHNICAL SHELTERS

Usually custom-designed and constructed to client specifications on a turnkey basis, our technical shelters vary greatly when it comes to size, function, equipment and fittings. Sometimes built for the extreme of operating environments, the shelters are often fitted with our own HVAC systems and designed to withstand fire, explosion, toxic and noxious gases, dust and moisture.

When shipped to site from our factory in Salies du Salat, our engineers can assist with on-site installation, (pre-)commissioning and start-up. Many shelters serve as on-site accommodation for our industrial process automation control systems, electrical system marshalling cabinets and instrumentation facilities. Others are used as site offices, onshore and offshore living quarters, laboratories, power distribution shelters, shelters for telephone and other communications systems, workshops, cloakrooms and showers, etc. Some are even fixed to trailers so they can be moved as required.



Qatar

## HVAC AND PRESSURIZATION SERVICES

We design and build customized industrial air conditioning and climate control systems, as a key component of our service portfolio. A typical project begins with the definition of technical specifications, detailed drafting and studies of air handling, ducting and pressurization networks, and chilled water networks. Construction in our workshops in Salies du Salat often includes the integration and installation of climate control and pressurization systems into technical shelters specifically built for their operating environment.

Systems may include reverse air blasting units, chilled water recycling and direct expansion units and refrigeration units with rooftop anti-deflagration systems, adapted to various climate zones. We also construct complete climate control facilities on site, from end-to-end testing and commissioning to providing technical assistance and training production and maintenance staff. Our technical shelters are installed at onshore and offshore industrial sites all over the world.





## **PROCUREMENT** OF SPARE PARTS, COMPONENTS AND MATERIALS

Dietsmann Technologies' international trade department procures spare parts, machinery, equipment, components and materials and serves repair requirements. Our team of specialists advises clients, manages the tender process on their behalf, negotiates with and procures parts and materials from manufacturers and vendors at the best possible price, while ensuring orders are delivered to site at the right time.

All spare parts, components and other materials are checked before the required items are assembled and readied for despatch in our warehousing facilities in Salies du Salat. We then manage the logistics of secure shipment to the relevant sites around the world. In our workshops in France and in the field we also repair and recondition components such as turbo compressors, regulators, jet pumps, injectors and diesel engines.



Laurent Pascal/TOTAL



Photo courtesy of Taurob

## TRAINING & ROBOTICS

### EXPERIMENTATION FACILITIES

At the Dietsmann Qualification College, special robotics technology experimentation and testing facilities can be made available to external users. In the near future, robots may be deployed in the industrial and petrochemical sector for tasks including Non-Destructive Testing during regular inspections of pressure vessels, storage tanks and larger diameter piping, and the cleaning of equipment at less-accessible locations.

As robots can be controlled remotely and manoeuvre 'independently', they may be used to perform various tasks on unmanned platforms or in specific circumstances. Robotics applications also include the use of drones for inspections of larger vessels and heat exchangers, flare systems and piping. These developments will be instrumental in enabling the oil & gas industry to work more efficiently and effectively.

The application of Augmented Reality (AR) and Virtual Reality (VR) is also increasing in the industry. New AR and VR training tools enable the required quality level to be achieved in safe conditions. A great benefit to Health, Safety, Social, Security, Environment and Quality (HSEQ). They are also prime examples of technology that supports changes in the day-to-day working environment and, in particular, in staff training.



## COMMITTED TO THE HIGHEST **HSEQ STANDARDS**

Dietsmann Technologies has demonstrated the quality of its operations by its ISO 9001-certification since 1994. We are currently certificated to the Integrated Management System (QSE) ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 standards through to 2017.

Major (inter)national energy companies and other clients entrust us with the Operation & Maintenance of their production facilities, so they can focus on their own core activities while we ensure the optimum performance of their facilities at the lowest possible cost. We have more than 40 years of accumulated experience operating and maintaining hundreds of production installations around the world. We are the market leader, currently maintaining an installed base of tens of thousands of different pieces of equipment and parts, for all production facility components, in multiple configurations.



# OVERVIEW OF REFERENCES WORLDWIDE

dietsmann-technologies@dietsmann.com

www.sonadiets.com

## FRANCE

### Salies du Salat

Zone Industrielle  
31260 Salies du Salat, France  
tel: +33 5 61 98 46 70  
fax: +33 5 61 97 48 43

### Toulouse

8, rue Paul Mespilé  
31100 Toulouse, France  
tel: +33 5 61 43 81 10  
fax: +33 5 61 43 81 12

## THE NETHERLANDS (GROUP HOLDING)

Wilhelminasingel, 19  
4818 AC Breda, The Netherlands  
tel: +31 76 530 19 88  
fax: +31 76 521 63 88

## MONACO

### (GLOBAL SUPPORT & COORDINATION OFFICE)

Gildo Pastor Center  
7, rue du Gabian  
MC 98000, Monaco  
tel: +377 93 10 10 10  
fax: +377 93 10 10 11

## UNITED ARAB EMIRATES (UAE - SUPPORT & COORDINATION OFFICE)

Office 4002  
Jumeirah Business Center 1  
Cluster G, DMCC  
P.O. Box 450171  
Dubai, UAE  
tel: +971 4 4581 662

## ANGOLA

### Sonadiets

Rua Augusto Silverino Ferreira  
10/12 - 1º Andar  
Maculusso, Luanda  
Angola  
tel: +244 222 440 657

## BOLIVIA

Calle M. Terrazas, 14  
Barrio Equipetrol  
Santa Cruz de la Sierra  
Bolivia  
tel: +591 3 3705115

## BULGARIA

### DietsmannEnergoremont

10, Dimitar Manov street  
1408 Sofia  
Bulgaria  
tel: +359 2 813 35 77  
fax: +359 2 813 35 06

## CONGO (THE REPUBLIC OF)

Avenue de Loango  
Boite Postale 1775  
Pointe Noire  
The Republic of Congo  
tel: +242 22 294 44 71  
fax: +242 22 294 43 50

## CYPRUS

Krambis Building, Office 201  
Stasikratous Street, 20  
1065 Nicosia  
Cyprus  
tel: +357 222 50 446

## GABON

P.O. Box 1138  
Port Gentil  
Gabon  
tel: +241 04 62 36 80  
fax: +241 01 55 01 54

## GHANA

36, Cantonments Crescent  
P.O. Box CT 6622  
Cantonments, Accra  
Ghana  
tel: +233 (0)30 276 5383  
fax: +233 (0)30 276 2810

## ITALY

Via Abruzzi, 25  
00187 Roma  
Italy  
tel: +39 06 42020452  
fax: +39 06 42010196

## KAZAKHSTAN

### Atyrau

Satpayeva street,19  
060012 Atyrau  
Republic of Kazakhstan  
tel: +7 7122 586 349/50  
fax: +7 7122 586 348

### Aksai

Druzhiba Narodov Street  
2nd floor 27/2  
090300, Aksai  
West Kazakhstan Region  
Republic of Kazakhstan  
tel: +7 71133 75 5 98  
+7 71133 75 5 97

## LIBYA

Ahmed Ben Yazeed Street  
Hay Al-Andalus, 2  
Tripoli  
Libya  
P.O. Box 93446 Tripoli Tower  
tel: +218 21 4782813/4/5  
fax: +218 21 4782816

## MOZAMBIQUE

Rua Zedequias Manganhela, 267  
Kampfumu  
Maputo  
Mozambique  
tel: +258 84 3232750

## NIGERIA

### NetcoDietsmann

Ceddi Plaza, 3rd floor  
Plot 264 Tafawa Balewa Way  
Central Business District  
Wuse 2, FCT, Abuja  
Nigeria  
tel: +234 (0)80 988 855 32  
fax: +234 (0)80 988 855 31

## QATAR

Al Jazi Tower  
15th floor West Wing  
Doha  
State of Qatar

## RUSSIA

BC «GlassHouse»  
Lyusinovskaya, 36/1  
115093, Moscow  
Russia  
tel: +7 495 539 31 52

## SOUTH SUDAN

Juba Regency Hotel  
Office 3, Building 4  
Plot 43, Block AXI Unity Road  
Juba  
Republic of South Sudan  
tel: +211 920 010 290

## SWITZERLAND

7, rue des Alpes  
1201 Geneva  
Switzerland  
tel: +41 22 73 83 591  
fax: +41 22 73 83 593



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