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### 7 9 A Ĵ Ì Ĵ Ĵ Ĵ 4 ZENIT Ĵ Ì ĺ VERVIEW

submersible electric pumps aeration and mixing systems lifting stations

# nanoBOX Lifting stations

AN HIGH QUALITY POLYETHYLENE TANK INTENDED FOR COLLECTING WATER EXCLUSIVELY FROM DOMESTIC DRAINS, INCLUDING WASHING MACHINES, SHOWERS AND SINKS (NOT SUITED FOR WC'S). THE TANK HAS A 33 L MAXIMUM CAPACITY AND IS SUPPLIED WITH A ZENIT STEEL SERIES SUBMERSIBLE PUMP ALREADY INSTALLED. IT IS VERY VERSATILE AND EASY TO INSTALL.



#### Dimensions (mm) .. .410x360x310 Nr. of pumps Operation temperature ......35°C ..DR-Steel 25 / DR-Steel 37 Pre-installed pump..

nanoBOX 331

Including: DR-Steel pump, 10m standard cable, float switch. Delivery port: DN32 (male thread). Inlet: nr. 1 x DN30, nr. 1 x DN40.

## AMS Aeration and mixing systems

INTENDED FOR THE TREATMENT OF CIVIL AND INDUSTRIAL WASTEWATER. 9" AND 12" DISC-SHAPED AND 2" TUBULAR AIR DIFFUSERS WITH ELASTOMER MEMBRANES PROVIDING HIGH OXYGEN TRANSFER;

VENTURI-TYPE SUBMERGED AERATORS FOR A COMBINED MIXING AND AERATION ACTION, SUITABLE FOR HOMOGENIZATION TANKS AND STORING WATER FROM THE FIRST RAINFALL

MIXERS AND FLOW-MAKERS WITH SELF-CLEANING PROPELLERS FROM 285 MM TO 2100 MM IN DIAMETER WITH A ROTATION SPEED FROM 1000 TO 27 RPM.



Micro-perforated elastomer membrane for continual/intermittent aeration and in high-efficiency permanent systems. Wastewater treatment and purification (for the activation of biological oxidation and nitrification process), pre-aeration and aeration processes in oxidation tanks and aerobic digestion plants for civil and industrial sludges.



Recommended for the construction of removable aeration systems and where a large output surface area is required with only a small number of air distribution pipelines. They consist of a head with threaded connection. rigid polypropylene support and tubular membrane in elastomer with tiny holes, secured with stainless steel band clamps



Aerators: the "Venturi" principle oxy, system oxy and jetoxy provide a combined mixing and aeration action. Coupled to electric pumps up to 30 kW and channel-type hydraulic units with large free passage combined with "oxv" series ejector devices.

Context of use: civil and industrial, wastewater treatment plants, sludge treatment or the oxygenation/pumping of water, fish farms, small treatment tanks, holding, homogenisation and stabilisation pits and tanks, first rainfall collection and oxidation tanks.

# **BlueBOX**

THE IDEAL SOLUTION FOR COLLECTING SEWAGE AND PUMPING IT INTO THE MAIN SEWER NETWORK.

THE BLUEBOX RANGE CONSISTS OF ROTARY MOULDED POLYETHYLENE TANKS OF 60, 90, 150 AND 250 LITRES FOR INSTALLATION WITH A SINGLE PUMP OR 400 LITRES FOR INSTALLATION WITH TWO PUMPS. THE 60, 90 AND 150L MODELS ARE RECOMMENDED FOR DOMESTIC SYSTEMS AND THE 250 AND 4001 FOR CIVIL AND RESIDENTIAL PLANTS

6
BlueBOX

Dimensions (mm). ..480x370x610 Nr. of pumps. Operation temperature 40°C Recommended pumps......DG Blue

Including: cable gland, PVC delivery pipe Ø 11/2", emergency draining connector, gasket kit for inlet pipes 2xØ110, 1xØ75 and 1xØ50 mm, nr.1 special support to reduce the float switch level, use and maintenance booklet. Overflow alarm level optional

.580x480x660

.DGBlue, DGBluePRO,

.40°C



150L

..GRBluePRO Including: cable gland, PVC delivery pipe Ø 11/2", emergency draining connector, gasket kit for inlet pipes 2xØ110, 1xØ75 and 1xØ50 mm, nr.1 special support to reduce the float switch level, use and maintenance booklet

Overflow alarm level optional

Operation temperature ....

Recomanded pumps..

Dimensions (mm) Nr. of pumps.



**BlueBOX** 

250L

Dimensions (mm) ..900x500x660 Nr. of pumps. Operation temperature ..... 40°C DGBlue DGBluePRO Recomanded pumps. GRBluePRO

Including: cable gland, nr. 2 gaskets pipe Ø110, nr. 1 gasket pipe Ø75 mm



..900x1000x660 Dimensions (mm) Nr. of pumps Operation temperature 40°C ..DGBlue, DGBluePRO, Recomanded numps. ..GRBluePRO, DGO

Including: cable gland, nr. 4 gaskets pipe Ø110, nr. 2 gasket pipe Ø75 mm



PRS, PRX and PRO series mixers are built in cast iron or stainless steel, propellers with self-cleaning design and diameter up to 850 mm. The electric motors are rated from 1.1 to 15 kW and have 4, 6 or 8 poles; transmission may be direct or by means of a planetary reduction gear. Use: mixing processes where large quantities of liquid have to be kept in motion to prevent sedimentation.



ΛΔΚFR9

Built in cast iron with stainless steel propeller. Propellers of self-cleaning design, up to 2100 mm in diameter. Electric motors from 0.8 to 5.5 kW with 4 or 6 poles, with planetary reduction gear. Use: oxidation and denitrificatoin tanks and all applications

with a need to prevent sedimentation on the tank floor.

# UNIQA<sup>®</sup> U

## New high performance series

THE UNIQA® RANGE REPRESENTS THE PERFECT SOLUTION FOR ANY CIVIL, INDUSTRIAL OR PROFESSIONAL APPLICATION, WITH A CHOICE OF 2-, 4-, 6- OR 8- POLE MOTORS FROM 4 TO 200 KW, 50 AND 60HZ, AND OUTLETS FROM DN80 TO DN400.

THE VORTEX IMPELLER THAT ALLOWS FOR WIDER FREE PASSAGE, PAIRED WITH THE ANTI-CLOGGING SYSTEM, GUARANTEES THE OPTIMUM PERFORMANCE OF EVERY UNIQA® MODEL IN ANY APPLICATION.

UNIQA® MOTORS CORRESPOND TO IE3 EFFICIENCY CLASS AND MATCH S1 DUTY CYCLE STANDARDS FOR SUBMERGED OPERATION AT A TEMPERATURE OF 60° C, AS PER NEMA A. A PRODUCT BUILT TO LAST. IN CIVIL AND INDUSTRIAL APPLICATIONS UNIQA® IS A SYNONYM FOR SMOOTH OPERATION, STEADY PERFORMANCE AND CONTINUOUS WORK CYCLES WITHOUT UNDESIRED SYSTEM SHUTDOWNS.

IT IS MADE OF INNOVATIVE MATERIALS AND IS EQUIPPED WITH CUTTING-EDGE TECHNICAL FEATURES SUCH AS THE NEW PATENTED COOLING SYSTEM.

# BOXPRO

New range of lifting stations

PUMPING STATIONS IN MEDIUM-DENSITY STURDY POLYETHYLENE, SUITABLE FOR INSTALLATIONS IN SMALL TO LARGE RESIDENTIAL DISTRICTS.

- THE LIFTING STATION IS PROVIDED WITH A WALK-OVER AND A DRIVE-OVER METAL COVER;
- THE TANK IS DESIGNED TO RESIST THE GROUND- AND WATER-PRESSURE;
- SMOOTH INTERNAL WALLS EASE THE EMPTYING PROCESS AND PREVENT UNPLEASANT SMELLS AND THE PROLIFERATION OF BACTERIA.

THE BOX PRO PUMPING STATIONS CAN BE USED WITH ONE OR TWO ELECTRICAL SUBMERSIBLE PUMPS WITH VORTEX, CHANNEL OR GRINDER IMPELLER.

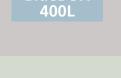
THE PUMPS MIGHT BE EQUIPPED WITH A LEVEL COUPLING DEVICE FIXED TO THE BOTTOM WHICH AVOIDS EMPTYING THE TANK IN ORDER TO LIFT THE PUMP BACK TO THE SURFACE.

EVERY STATION IS DESIGNED WITH 3 OPTIONAL WASTE WATER INLET CONNECTIONS, AND 2 OUTLETS FOR THE ELECTRICAL AND FLOAT SWITCHES CABLES.

THE LIFTING STATIONS CAN BE SUPPLIED WITH ELECTRICAL CONTROL DEVICES FOR FULLY AUTOMATIC OPERATION SUCH AS FLOAT SWITCHES AND A HIGH-LEVEL ALARM INDICATOR FOR A SAFER USE.













# **DG** DRAGA vortex impeller

THE DRAGA (DG) FAMILY CONSISTS OF ELECTRIC PUMPS WITH SET-BACK VORTEX IMPELLER WHICH PROVIDES AMPLE FREE PASSAGES OFTEN ENTIRELY FREE PASSAGES IDEAL FOR APPLICATIONS IN INDUSTRY IN GENERAL AND IN AGRICULTURE, FOR PUMPING BIOLOGICAL SLUDGES, LIVESTOCK FARM SLURRY AND SOILED LIQUIDS CONTAINING SOLIDS.

DG MODELS WITH MOTORS UP TO 1.5 kW ARE IDEAL FOR APPLICATIONS IN INDUSTRY, AGRICULTURE AND LIVESTOCK FARMING; THOSE WITH MOTORS UP TO 16.4 kW ARE SUITABLE FOR PROCESSING BIOLOGICAL SUUDGES AND LIVESTOCK FARM SILIRRY





Motor power.. 0,37 ÷ 0,75 kW Poles Delivery port .. GAS 11/4"-11/2" V Free passage.. max 40 mm Max flow rate 6.3 l/s Max head...... 10.0 m

Motor power.. 0,3 ÷ 0,74 kW

Delivery port .. GAS 11/2" V

Max flow rate 7.7 l/s

Max head...... 11.6 m

Frequency ..... 50/60 Hz

Motor power., 0.37 ÷ 1.5 kW

Delivery port .. GAS 2" V

Free passage.. max 50 mm

Motor power.. 0,37 ÷ 1,5 kW

Max flow rate 11.6 l/s

Max head...... 15.7 m

Frequency ..... 50/60 Hz

...... GAS 2" DN50 H

Free passage .. max 40 mm



DOMESTIC

n DG Blue



Motor power.. 0,37 ÷ 1,5 kW Delivery port .. GAS 11/2" - 2" V Free passage .. max 50 mm Max flow rate 12.6 l/s Max head...... 15.3 m Frequency ..... 50/60 Hz

Poles ...... 2

Poles ..... Z

DOMESTIC 



DGO

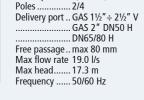




 $\langle E_{x} \rangle$  ATEX







Motor power., 0.74 ÷ 1.5 kW Poles ..... 2/4 Delivery port .. DN80 H Free passage .. max 80 mm Max flow rate 15.2 l/s Max head...... 8.4 m

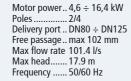






SEWER SYSTEMS





Motor power.. 1,1 ÷ 4,1 kW

Delivery port .. GAS 2½" V

DN65 ÷ DN150 H

## DR DRENO open multi-channel impeller

DGP

THE DR IMPELLER IS SUITABLE FOR LIFTING SEWAGE. FOR WASTEWATER TREATMENT PLANTS, AND FOR INDUSTRIAL APPLICATIONS IN GENERAL, DR MODELS UP TO 1.5 kW (FREE PASSAGE UP TO 15 MM) ARE USED FOR THE TREATMENT OF MAINLY CLEAN OR SLIGHTLY SOILED WATER. THOSE UP TO 19.3 kW (FREE PASSAGE UP TO 120 MM) ARE SUITABLE FOR LIFTING SEWAGE, FOR WASTEWATER TREATMENT PLANTS, AND FOR INDUSTRIAL APPLICATIONS IN GENERAL.

### 0.25 ÷ 1.5 kW



DOMESTIC

DOMESTIC

DOMESTIC

Motor power.. 0,25 ÷ 0,75 kW Poles 2 Delivery port .. GAS 11/4"-11/2" Free passage .. max 12 mm Max flow rate 335 l/m Max head...... 16.0 m



Motor power.. 0,37 ÷ 1,5 kW Poles Delivery port .. GAS 1<sup>1</sup>/<sub>4</sub>" - 2" V Free passage .. max 15 mm Max flow rate 11.5 l/s Max head...... 17.0 m Frequency ..... 50/60 Hz

Motor power.. 0,37 ÷ 1,5 kW Delivery port .. GAS 11/4" - 2" V ..... GAS 2" DN50 H Free passage...max 15 mm Max flow rate 12.6 l/s

Motor power..  $0,37 \div 1,5 \text{ kW}$ Delivery port .. GAS 11/4" ÷ 21/2" V ..... GAS 2" DN50 H Free passage .. max 15 mm Max flow rate 13 l/s Max head...... 18.4 m

Frequency ..... 50/60 Hz

# MA MACS open single-channel impeller

THE MACS (MA) FAMILY CONSISTS OF ELECTRIC PUMPS WITH SINGLE-CHANNI OPEN IMPELLER WHICH ALLOWS VERY HIGH PERFORMANCE AND AMPLE FREE PASSAGES, OFTEN ENTIRELY FREE PASSAGES, WHICH REDUCE THE RISK OF FOULING. UNITS IN THIS FAMILY CAN BE USED FOR LIFTING SEWAGE, FOR WASTEWATER TREATMENT PLANTS, AND FOR INDUSTRIAL APPLICATIONS IN CONTRACT THE DECATION OF THE READ OF THE DECATION OF THE GENERAL. THE LOCATION OF THE BLADES IN THE REAR OF THE IMPELLER DOUB THE WATER FLOW THROUGH THE COOLING JACKET, IN INSTALLATIONS IN DRY CHAMBER, REDUCING THE RISK OF FOULING AND ENSURING THE MOTOR IS COOLED EFFECTIVELY EVEN IN HEAVY-DUTY CONDITIONS.



Motor power.. 1,1 ÷ 4,1 kW Delivery port .. GAS 2½" V . DN65 ÷ DN150 H ree passage  $40 \div 100 \text{ mm}$ Max flow rate 47.1 l/s Max head...... 23.2 m Frequency ..... 50/60 Hz



Ex ATEX

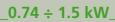


DRP

Motor power.. 4,1 ÷ 19,3 kW Poles ..... 2/4/6 Delivery port .. DN80 ÷ DN150 H ree passage.. max 125 mm Max flow rate 140.9 l/s Max head...... 52.6 m Frequency ..... 50/60 Hz

AP ALTA PREVALENZA high head impeller

MODELS UP TO 1.5 kW ARE SUITABLE FOR CLEAR WASTEWATERS. MAINLY USED IN CIVIL OR PROFESSIONAL APPLICATIONS, WITH SOLID PARTICLES UP TO 7 MM. MODELS UP TO 10 kW ARE MAINLY USED FOR PROFESSIONAL, AGRICULTURAL, FISH FARMING, IRRIGATION AND CIVIL APPLICATIONS. THE HIGH MANOMETRIC HEAD ENSURES EXCELLENT RESULTS FOR THE WATER FEATURES AND DECORATIVE FOUNTAINS.



Motor power.. 0.74 ÷ 1,5 kW Delivery port .. GAS 11/2"-DN32 H Free passage.. max 6 mm Max flow rate 7.1 l/s Max head...... 26.6 m . 50/60 Hz reauencv ....

# DOMESTIC





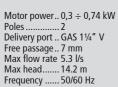






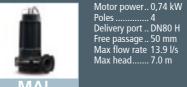
DR BluePRO

Max head...... 18.0 m Frequency ..... 50/60 Hz Poles 2/4



#### 0.74 ÷ 4.1 kW







otor power.. 1,1 ÷ 4,1 kW livery port .. GAS 2½" V Free passage .. 40 ÷ 100 mm Max flow rate 53.9 l/s Max head...... 30.2 m



otor power.. 0.74 kW ery port .. DN65 ÷ DN100 Free passage.. max 55 mm Max flow rate 17.6 l/s Max head...... 6.9 m

otor power.. 0,74 kW

## VL VULCO multi-channel open impeller

HYDRAULICS IN CAST IRON COATED WITH A THICK LAYER OF HARD-WEARING POLYURETHANE (VULKOLLAN) OF VIRTUALLY UNLIMITED DURATION, ALLOWING ITS APPLICATION WHERE OTHER MATERIALS GENERATE TOO MANY PROBLEMS. WITH EXCESSIVE WEAR AND INSUFFICIENT TIME BETWEEN SERVICES. USED IN THE CERAMICS INDUSTRY, FOR THE PROCESSING OF GRANITE, MARBLE AND GLASS, FOR METAL CUTTING, IN QUARRIES AND MINES, IN AGGREGATE PROCESSING SYSTEMS AND IN CONCRETE PRODUCTION PLANTS.

## 1.5 ÷ 16.4 kW

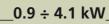


Motor power.. 1,5 ÷ 16,4 kW Free passage .. max 54 mm Max flow rate 49.7 l/s Max head...... 30.7 m

DOMESTIC (Real CIVIL

**GR** GRINDER impeller with grinder system

THE MODELS WITH 2 POLE MOTORS UP TO 7.2 kW ARE FITTED WITH "ACS" (ANTI-CLOGGING SYSTEM), WHICH GUARANTEES THE PUMP AGAINST FOULING AND ENSURES PROMPT RESTARTS EVEN WITH LOW POWER. SUITABLE FOR CIVIL, LIVESTOCK FARMING AND FOOD INDUSTRY APPLICATIONS. MODELS WITH 4-POLE MOTORS FROM 2.2 TO 3.0 kW ARE FITTED WITH A RUGGED "S"-SHAPED IMPELLER OPERATING SNUG AGAINST THE DIFFUSER PLATE, WITH TOOTHED INTAKE ORIFICE: SUITABLE IN AGRICULTURAL AND LIVESTOCK FARMING APPLICATIONS WITH HEAVILY SOILED LIQUIDS CONTAINING SOLIDS WHICH CAN BE BROKEN DOWN



Poles **GR BluePRC** 

Motor power.. 0.74 ÷ 1,5 kW Delivery port .. GAS 11/2"-DN32 H Free passage. Max flow rate 5.6 l/s Max head...... 27 m Frequency ..... 50/60 H

# Fluid Design

### The perfect assistant in the design of the lifting stations for wastewate

With just a few clicks you will be able to calculate the needed capacity, while considering the pressure losses, so that you can arrive at the product that best suits your needs.

Fluid Design is easy to use and allows you to compare the difference in performance of various Zenit pumps in the plant you have designed.

Fluid Design is available at www.zenit.com



## 0.74 ÷ 1.5 kW



Motor power.. 1.1 kW Delivery port .. GAS 11/2"-DN32 H Free passage .. 4 Max flow rate 4.8 l/s Max head...... 26 m



CIVIL





Poloc

#### Motor power.. 1,5 kW Delivery port .. GAS 2"-DN32 H Free passage .. 7 mm Max flow rate 9.5 l/s Max head...... 24.9 m requency ..... 50/60 H



#### Motor power.. 1,1 ÷ 1,5 kW Poles Delivery port .. GAS 11/2"-DN32 H Free passage .. max 7 mm

Max flow rate 7.6 l/s Max head...... 22.6 m

### 1.8 ÷ 10 kW



EXPLOSIVE ATMOSPHERES

Poles 2 Free passage .. max 10 mm Max flow rate 10 l/s Max head...... 38.7 m Frequency ..... 50/60 Hz



Motor power.. 1,8 ÷ 4,1 kW Delivery port .. GAS 1½"-2" DN32 H

Motor power.. 7,2 ÷ 10 kW Delivery port .. GAS 2" DN32 H Free passage .. 10 mm Max flow rate 11.8 l/s Max head...... 58.3 m

## X-Y-B SPECIAL ALLOYS vortex and multi-channel open impeller

DRX, DRY AND DGX MODELS ARE CONSTRUCTED IN CE8-M (AISL 316) STAINLESS STEEL DRX AND DRY MODELS ARE SUITABLE FOR WATER WITH SMALL SOLID PARTICLES (MULTI-CHANNEL OPEN IMPELLERS). DGX MODELS ARE RECOMMENDED FOR HEAVILY SOILED WASTEWATERS (VORTEX IMPELLER), RECOMMENDED FOR APPLICATIONS WITH CORROSIVE AND AGGRESSIVE LIQUIDS, AND CAN THEREFORE BE USED FOR INDUSTRIAL, CHEMICAL AND PHARMACEUTICAL PLANTS, OR WITH SEAWATER. DRB AND DGB MODELS ARE IN B10 BRONZE.

SUITABLE FOR WATERS WITH SMALL SOLID PARTICLES (DRB) AND HEAVILY SOILED WATER (DGB). RECOMMENDED FOR MARINE, FISH FARMING AND LIVESTOCK FARMING CONTEXTS.

### 0.37 ÷ 15.0 kW INOX AISI 316



Motor power.. 0.37 ÷ 1,5 kW Poles 2 Delivery port .. GAS 1<sup>1</sup>/<sub>4</sub>"-2" V Free passage .. max 15 mm Max flow rate 12.5 l/s Max head...... 17.8 m



Motor power.. 0,37 ÷ 1,5 kW Delivery port .. GAS 2" V .... DN65-DN80 H ree passage .. max 60 mm Max flow rate 18.4 l/s Max head...... 14.9 m



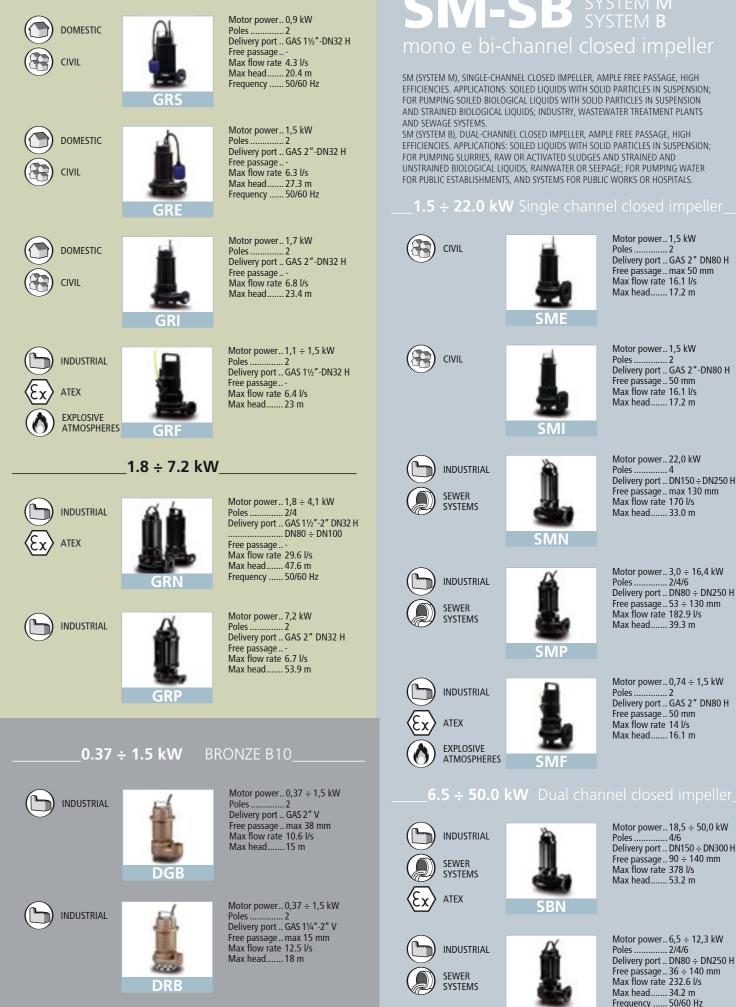
Motor power.. 2,4 ÷ 15 kW

Poles ...... 2/4 Delivery port .. DN65 ÷ DN100 H Free passage .. max 80 mm Max flow rate 72.8 l/s Max head...... 40.2 m





#### \_0.9 ÷ 4.1 kW\_



All the photos, weight and dimensions are indicative only. The information contained herein is not binding. enit reserves the right to alter the product without prior notice

Motor power.. 0,74 ÷ 1,5 kW Delivery port .. GAS 2" DN80 H



Zenit Group ranks among the top international names in the design and manufacture of water treatment technologies. Its core business is the design and manufacture of submersible electric pumps for domestic and industrial use. Thanks to the knowledge and experience it has acquired over the years Zenit has also featured oxygenating and mixing devices on the market, providing a comprehensive range of products designed to meet the most demanding needs. Today Zenit is a Group of companies with direct control over the markets it serves, thanks to a targeted territorial presence. Although the various companies of the group are located accross the globe, they all pursue a single mutual objective. As a result of a sequence of successful strategic managerial decisions today Zenit Group is a global player.

We are convinced that the path we have taken is the right one and intend to proceed further in the same direction guided by the three pillars of our corporate vision: People, Product, Passion



#### Zenit ITALIA

Headquarter, production site and sales office for the Italian market

Via dell'Industria 11 41018 San Cesario sul Panaro (MO), Italy Tel. (+39) 059.950.611 Fax (+39) 059.597.0399 Mail info.it@zenit.com

#### Zenit CHINA

Production site and sales office for the Chinese market

26 Wupu Road, Shengpu dc. Suzhou Industrial Park, 215126 Jiangsu, P.R.C. Tel. (+86) 512.628.718.88 Fax (+86) 512.628.718.66 Mail info.cn@zenit.com

#### Zenit EUROPE

Sales office and regional office for Europe, the Middle East, Africa, North and South America

29-31 Zone Artisanale "Op Zaemer" 4959 Bascharage, Luxembourg Tel. (+352) 270.305 Fax (+352) 246.111.76 Mail info.lu@zenit.com

#### Zenit ASIA PACIFIC

Sales Company for the Asia-Pacific region

30 Toh Guan Road - #08-07 ODC Districentre, Singapore 608840 Tel. (+65) 656.011.01 Fax (+65) 656.011.41 Mail info.sg@zenit.com



