EUROCARBO SpA

A worldwide leader sintered material company (Electrical Carbon, brush holder, Mechanical carbon, silicon carbide, etc..)

company profile











Segment of Eurocarbo Business

Mechanical carbon

Electrical carbon&spare

Silicon carbide



Trend sales last years

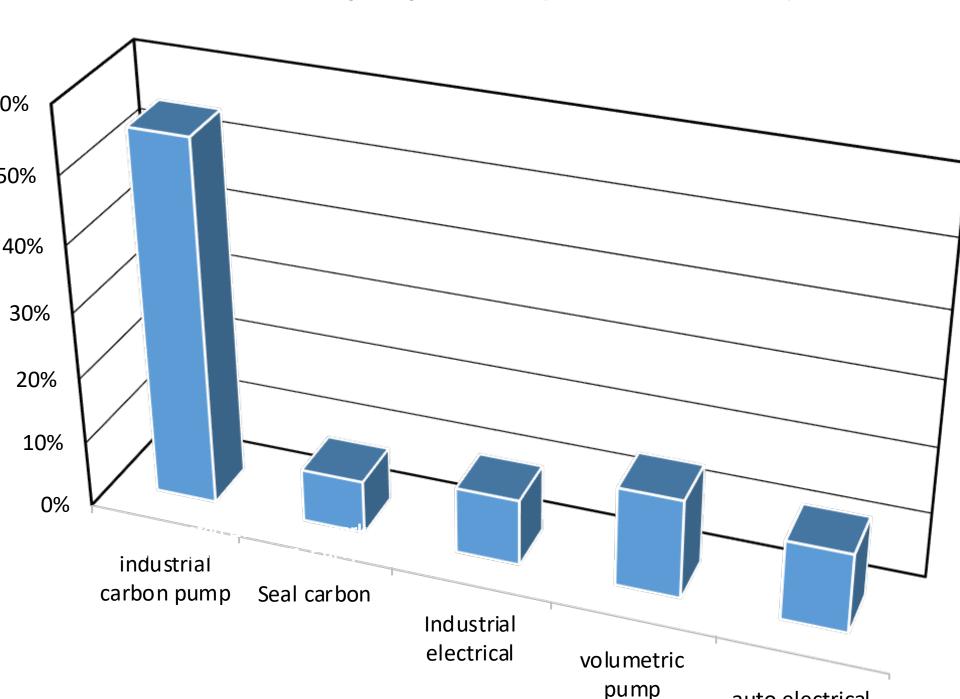
sales in K€

20000 10000
-sales in K€

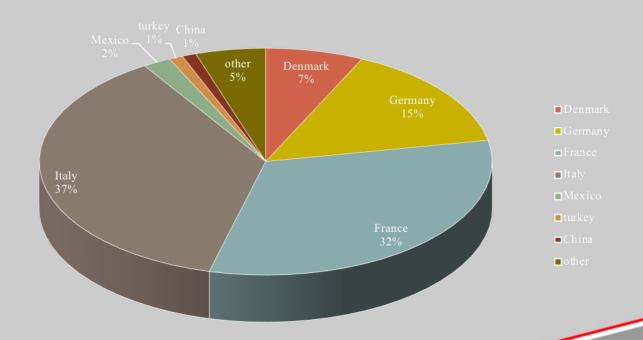
0



Sales 2018 per product (total 12,300KE)

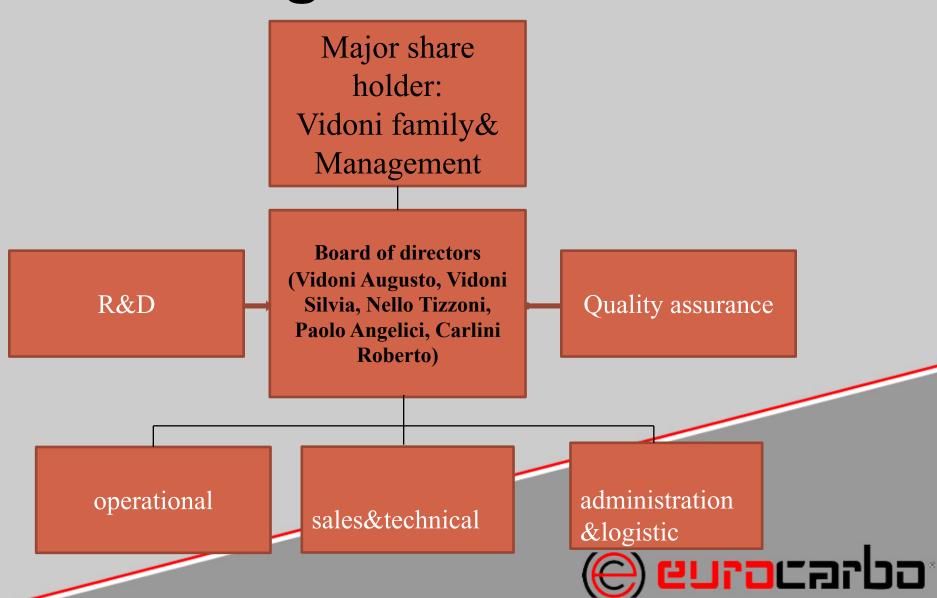


Sales distribution 2018





Organisation





Founded in 1973

Area: 30.000 m²

15.000 m² covered plus new building

Employes: 115 units

85 direct

30 indirect

High skilled people with More than 15 years as average experiences



UNI EN ISO 9001-2008



CERTIFICATO

Nr 50 100 3441 - Rev. 02

Si attesta che / This is to certify that IL SISTEMA QUALITÀ DI THE QUALITY SYSTEM OF

EUROCARBO S.p.A.
SEDE LEGALE E OPERATIVA:
VIA SANTA SCOLASTICA 35
I-64013 CORROPOLI (TE)

È CONFORME AI REQUISITI DELLA NORMA HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2008

Riferirsi al manuale della qualità per eventuali dettagli delle esclusioni ai requisiti della norma ISO 9001:2008 Refer to quality manual for possible defalls of exclusions of requirements of the norm ISO 9001:2008

Questo certificato è valido per il seguente campo di applicazione This certificate is valid for the following product or service range

Progettazione e fabbricazione di spazzole per macchine elettriche e di carboni per applicazioni meccaniche e chimiche (EA 15)

Design and manufacture of brushes for electrical machines and of carbon components for mechanical and chemical applications (EA 15)



ISOD NY ORBIT SCA NY ORBIT SCR NY ORBIT SCR NY ORBIT STORY ORBIT S Per l'Organismo di Carillicazione Fer rho Cortification Body TÜV Italia S.r.I. Data di emissione / Issue da

Data di scadenza / Expiry date 2012-09-24

Rinnovo del certificato emesso per la prima volta in data 2003-11-03

"La validità del presente certificato è subcrdinata a sorvegianza periodica a 12 mesi e al riesame completo del sistema di gestione aziendale con periodicità triennale."

"The validity of the present certificate depends on the annual survaillance every 12 months and on the complete review of company's management system after three-years"

TÜV Italia • Gruppo TÜV SÜD • Via Carducci 125, Fal. 23 • 20099 Seste San Giovanni (MI) • Italia • www.tuv.it TUV



Prodotto Conforme

OELLE TECNOLOGIE

REALITATION OF THE PRODUCT OF

TIFQ Prodotto Conforme D.M. 174/2004











CERTIFICAT

.

CERTIFICADO

•

СЕРТИФИКАТ

•

#

.

CERTIFICATE

•

ZERTIFIKAT

UNI EN ISO 14001-2004

TUN SECOND

CERTIFICATO

Nr 50 100 7265 - Rev. 01

Si attesta che / This is to certify that IL SISTEMA DI GESTIONE AMBIENTALE DI THE ENVIRONMENTAL MANAGEMENT SYSTEM OF

EUROCARBO S.p.A.

SEDE LEGALE E OPERATIVA: VIA SANTA SCOLASTICA 35 I-64013 CORROPOLI (TE)

È CONFORME AI REQUISITI DELLA NORMA HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 14001:2004

Questo certificato è valido per il seguente campo di applicazione This certificate is valid for the following product or service range

Progettazione e realizzazione di spazzole per macchine elettriche e carboni per applicazioni meccaniche e chimiche tramite macinazione, mescolazione, pressatura, cottura e rifinitura (EA 15)

Design and manufacture of brushes for electrical machines and of carbon components for mechanical and chemical application by grinding, mixing, pressing, baking and finishing (EA 15)

Certificazione rilasciata in conformità al Regolamento Tecnico SINCERT RT-09



SCAN 1999 ITX N 001L ISPN 091C SCAN N 000F Membro drigit Accords of Vision Membroscope do FA 1965 a LAC Separatory of EA, UF and ILAC Natural Recognition Automoreis Per l'Organismo di Certificazione For the Cartification Body TÜV Italia S.r.l. Data di emissione / Issue date 2010-10-31

Data di scadenza / Expiry date

2013-10-30

Rinnovo del certificato emesso per la prima volta in data 2007-11-26

La validità del presente certificato è subcrdinata a scrvegianza periodica a 12 mesì e al rieseme completo del sistema di gestione aziendale con periodicità firennale

The validity of the present certificate depends on the annual surveillance every 12 months and on the complete review of company's management system after three-years'

TÜV İtalia • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • İtalia • www.tuv.it **TÜV**





.

CERTIFICATE

•

ZERTIFIKAT

New all carbon HPC835 approvals by:



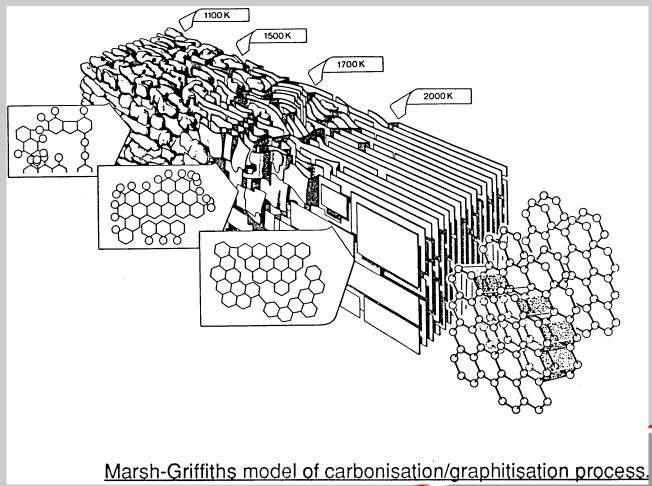
Recently approved on NSF 61 FOR OUR NEW ALL CARBON HPC835



Meaning of our sintered products



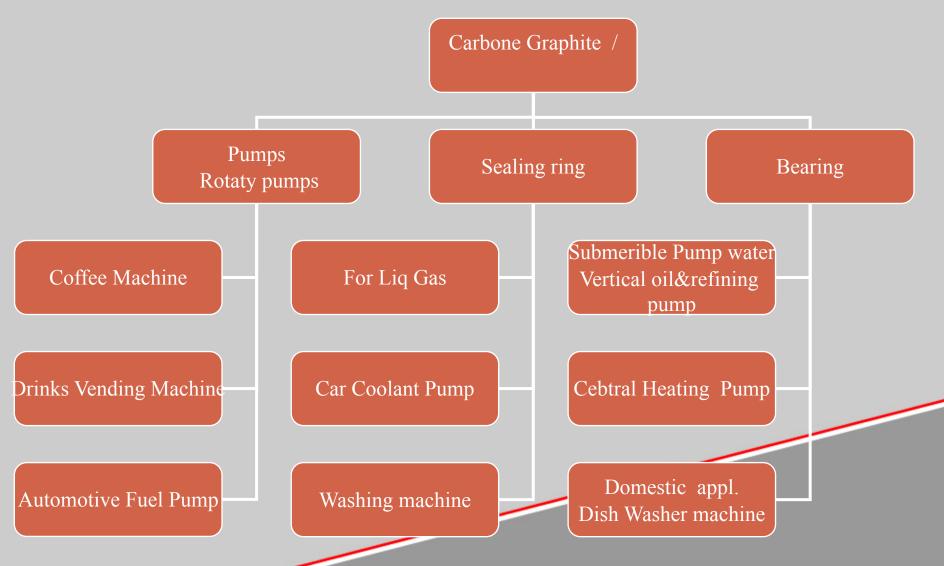
We make hard carbon bake process 950-1150°c



Where we are (carbon explanation)



Application of hard carbon







Mechanical carbon some pictures:

- bearings
- seal rings
- trust bearings
- pads
- sleeves

Applications:

- chemical pumps
- mechanical seals
- circulator
- submersible pumps
- volumetric pumps
- Bevarege application pumps
- other





Mechanical carbon:

special bearings

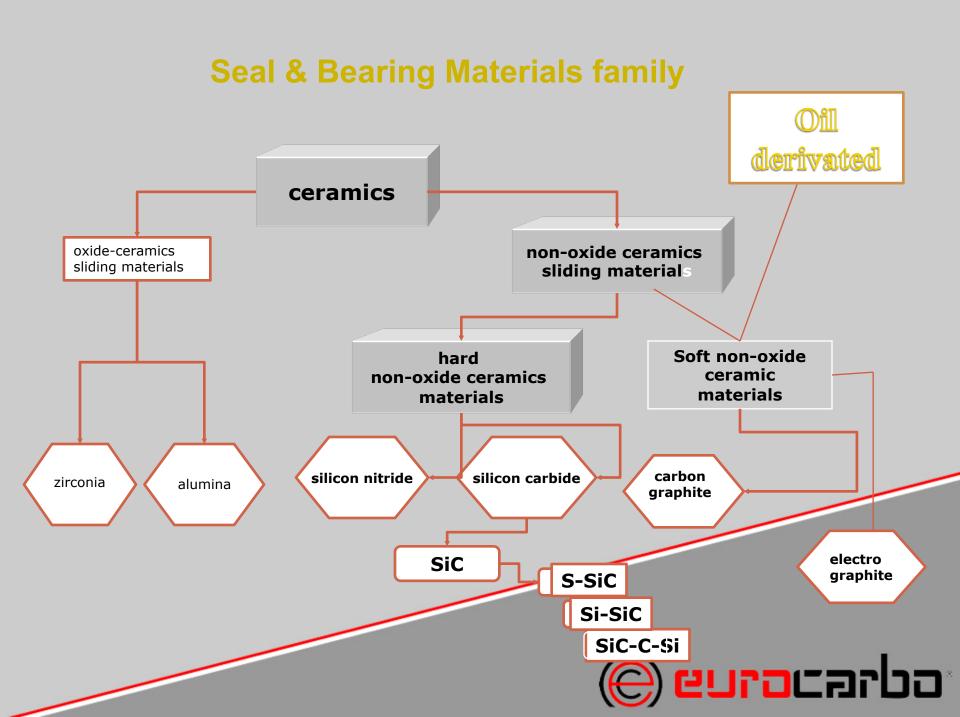
Applications:

 process pumps for oil & chemical plants



Silicon carbide







Sintered Silicon carbide Podwer from realible Supplier SSiC:

We make Ssic with our graphite for:

- . seal rings
- . small bearings
- . small shafts

Applications:

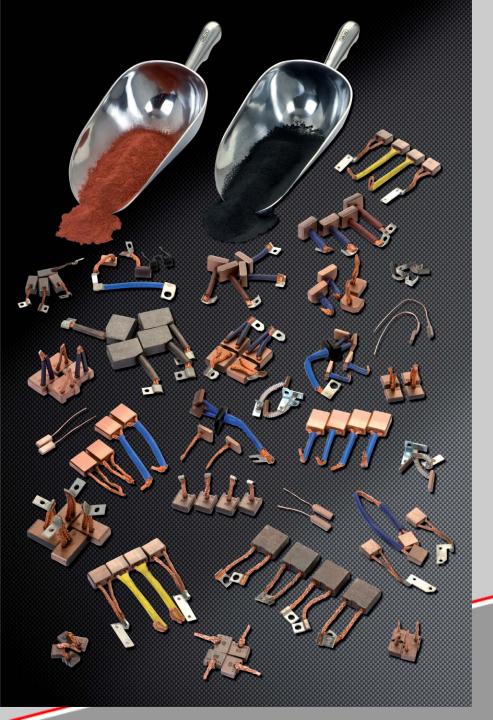
- chemical pumps
- mechanical seals
- Thrust bearing

•



Electrical segment





Electrical carbon:

- auto brushes
- fhp brushes
- industrial brushes
 (partner E-Carbon Group for small user, eg grade industrial application)
- traction brush
- earthing brush
- Microbrushes

Applications:

- industrial motors
- automation motors
- traction motors
- automotive
- microbrushes for

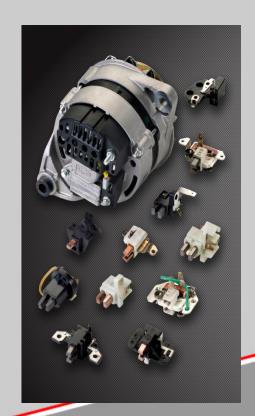
tooling and medical electrical motor

Wind energy



Auto business application carbon and brush holders



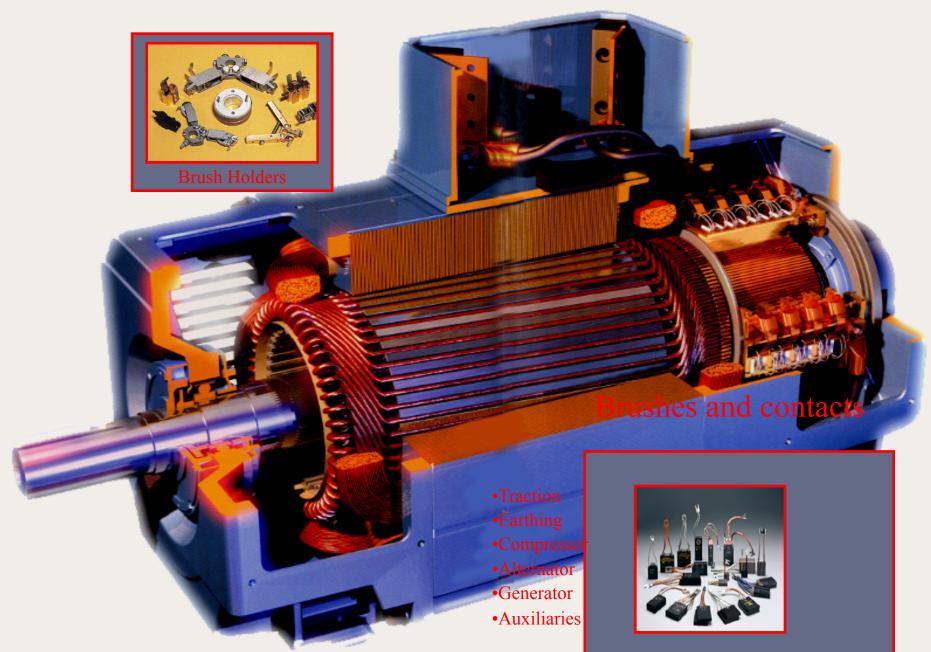


Applications:

 starters and generator for automotive



Industrial application on DC motor

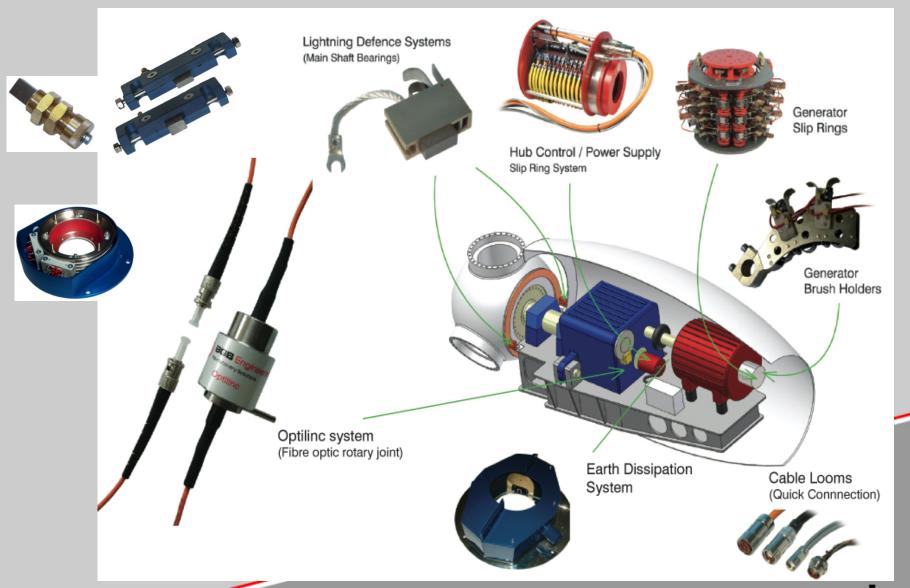


BGB & Vestas Partnership





BGB Wind Turbine Product Range





MAJOR MECHANICAL APPLICATIONS Principali applicazioni carbone meccanico



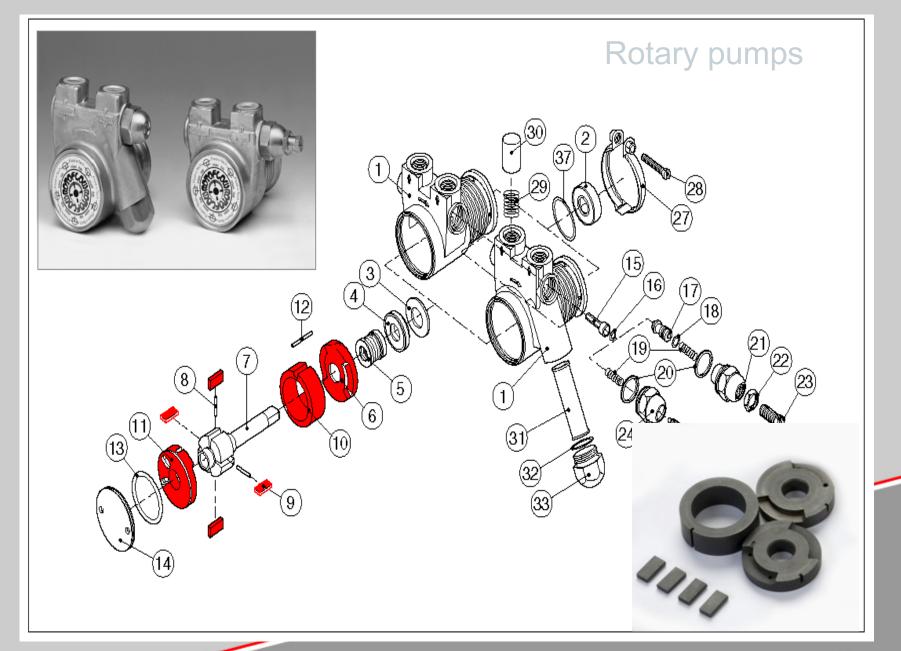
Rotary pumps

- rotary pumps for:
 - beverage vending machine
 - post-mix drink dispenser
 - espresso coffee machine
 - cooling system
 - reverse osmosis
 - ultra filtration

Strong increase high quality

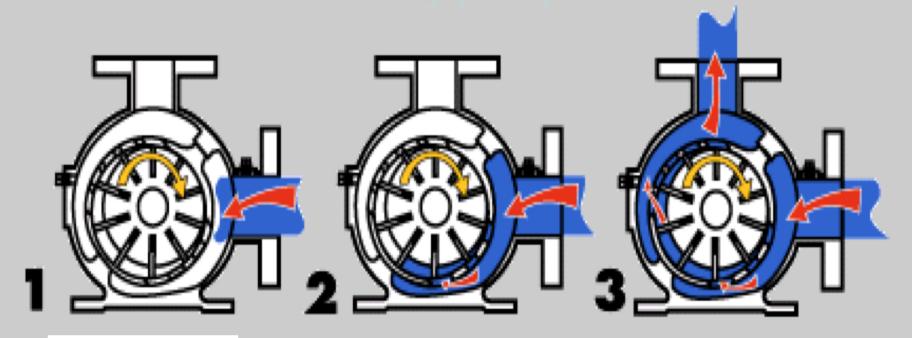
We supply the complete carbon set-pumps:

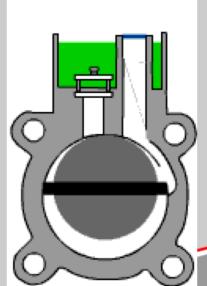
- vanes, liner rings, rear rings
- grade: HT204 resin impregnated carbon
- NSF 51 approved
- ・ New R&D all carbon, low resin content ピリアコピヨアレコ*





Rotary pumps







Mechanical seals

 Main customer and our major share holder Roten-Aves Srl Italy:

mechanical seals for fluid handling

we supply rotary & stationary seal rings: carbon and silicon carbide materials

grade: mainly resin impregnated but other solutions are available related to working conditions, metal or green.





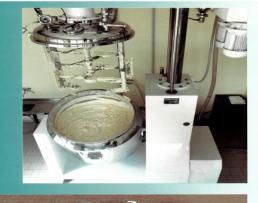


























Eurocarbo spa

Worldwide leader in carbon bearing



Bearings our core







Bearings our core

 bearings for circulating heating pumps (million pcs per year) strong relation ship with Wilo starting from beginning when Eurocarbo was founded

grade: metal antimony and resin impregnated

Now



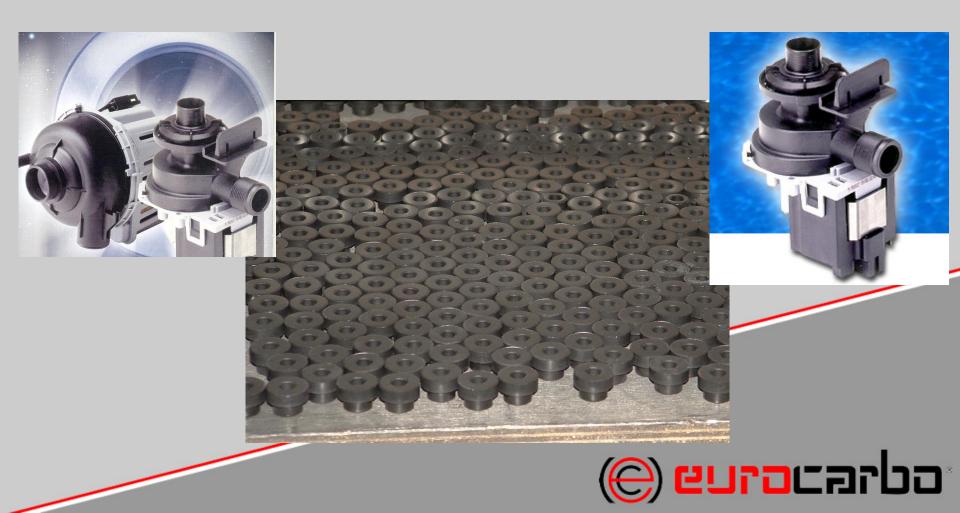




• New development: eurocarbo trade registred metal free materials for green solution HPC835 (high performance carbon very very low friction)

Dish washer application

Syncrounus pumps



Submersible pumps motor

- Submersible pumps: application only on the electrical motors. Thrust bearings used on mitchell support and bearings for shaft.
- Grade: metal or resin impregnated



Submersible pumps





Eurocarbo spa

Worldwide leader in carbon path

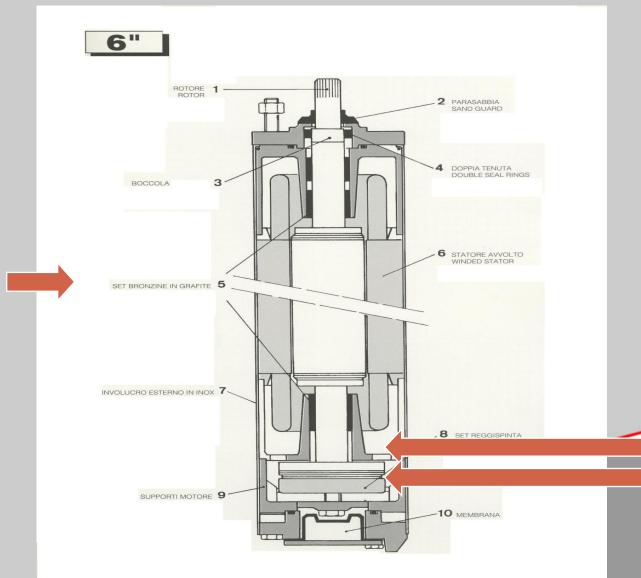


Submersible pumps





Submersible motor pumps





Main size where we are 4"-6"- 8" - 10" - 12" well water

Specifiche

- •Flow: 550,00 m3/h
- •Power: till 460,0 m
- •trifase 50 Hz
- Motor 4,00 kW up 300,00 kW
- temperature flow liquid: till 30,0 °C
- deep well: till 350,0 m

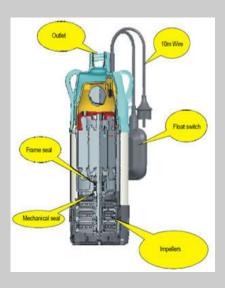
Application

- water distribution
- cleaning
- underground barrier protection
- chemical plants and refinery
- Irrigation
- •Fire protection
- Osmosi
- Oil plants



Oil business & Refinary







Packed Tower Internals

Random Packing

High Performance Trays

Conventional Trays

. Special bearing with high performance anti corrosion steel and impregnated graphite for vertical pump;

. Raschig bearing for alkalin tower refinery



Eurocarbo is putting reasorce and capital on carbon and Sic because this our

"Core business"

Investment Eurocarbo 2012-2017 already in place

. New Building (wherehouse)

- . New kiln
- . New vessel Sb
- . H&S (rain water)
- . Layout Lean
- . New lenght grinder
- . New two grooves grinder
- . New automatic vessel resin
- . New washing bearing system
- . New cnc working station
- . Metrologic room
- . Total spend last three years

To be done this year and committed:

New ID grinder automatic high Volume (via Wilo)

New automatic equipment for Internal dimension control used on green department (done)

Total on 2017 value 750K€ (Grinder ID, lapping, milling) Planned on 2018.

Additional ID grinder350K€Additional Ext grinder350K€Milling250K€

Total 2700K€



Major Key Accounts

Wilo Group

Bosch group

Grundfos Group

Roten – Aves Group

Fluidotech (Italy and Asia)

Askol group

Standex Procoon

Xylem group

Weir Group

Sumoto group

Alarko

Vansan

Impo

KSB Turkey

Taco Usa

Nuert

And ... others



VIRTUAL PLANT TOUR



Manufacturing processes

PROCESSES

- Grinder and raw material preparation
- Mixing in temperature
- Milling powder
- Press
- Kilning
- Impregnation:

Phenolic resin

Babbit

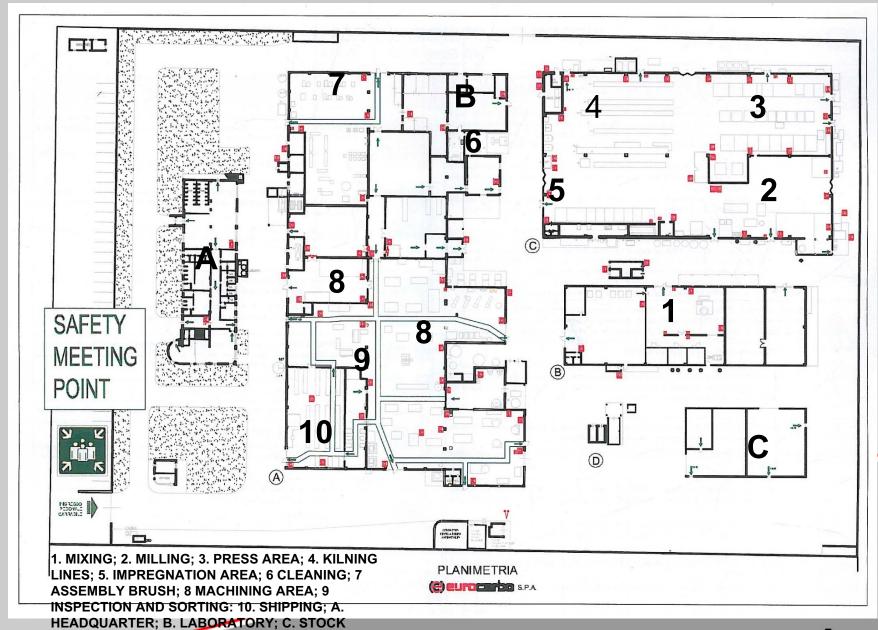
Antimony

Antimony alloy

FINISHING

- CNC
- Grinding ID / OD
- Lapping
- Polishing / Superlapping

- graphitaziation EG
- Electrical assembly
- Grinding
- Tamping
- Terminal fixing



BUILDING

