

The ZOLLERN-Group.
Metals In Motion.



Company Presentation

По всем вопросам обращайтесь в наш офис ООО "ТИ-Системс":
Тел/факс: (495) 7774788, 5007154,55, 65, 7489626, 7489127, 28, 29
Эл. почта: info@tisys.ru Интернет: www.tisys.ru www.tisys.kz www.tisys.by www.tesec.ru

The Pioneer Of The Metal Industry

300 Years Of Experience And Innovation



1708

Foundation of Zollern by prince Meinrad II. (1689-1715)

1918

Start up of bearing production in Braunschweig

1989

Transformation into a limited partnership, FHH Laucherthal

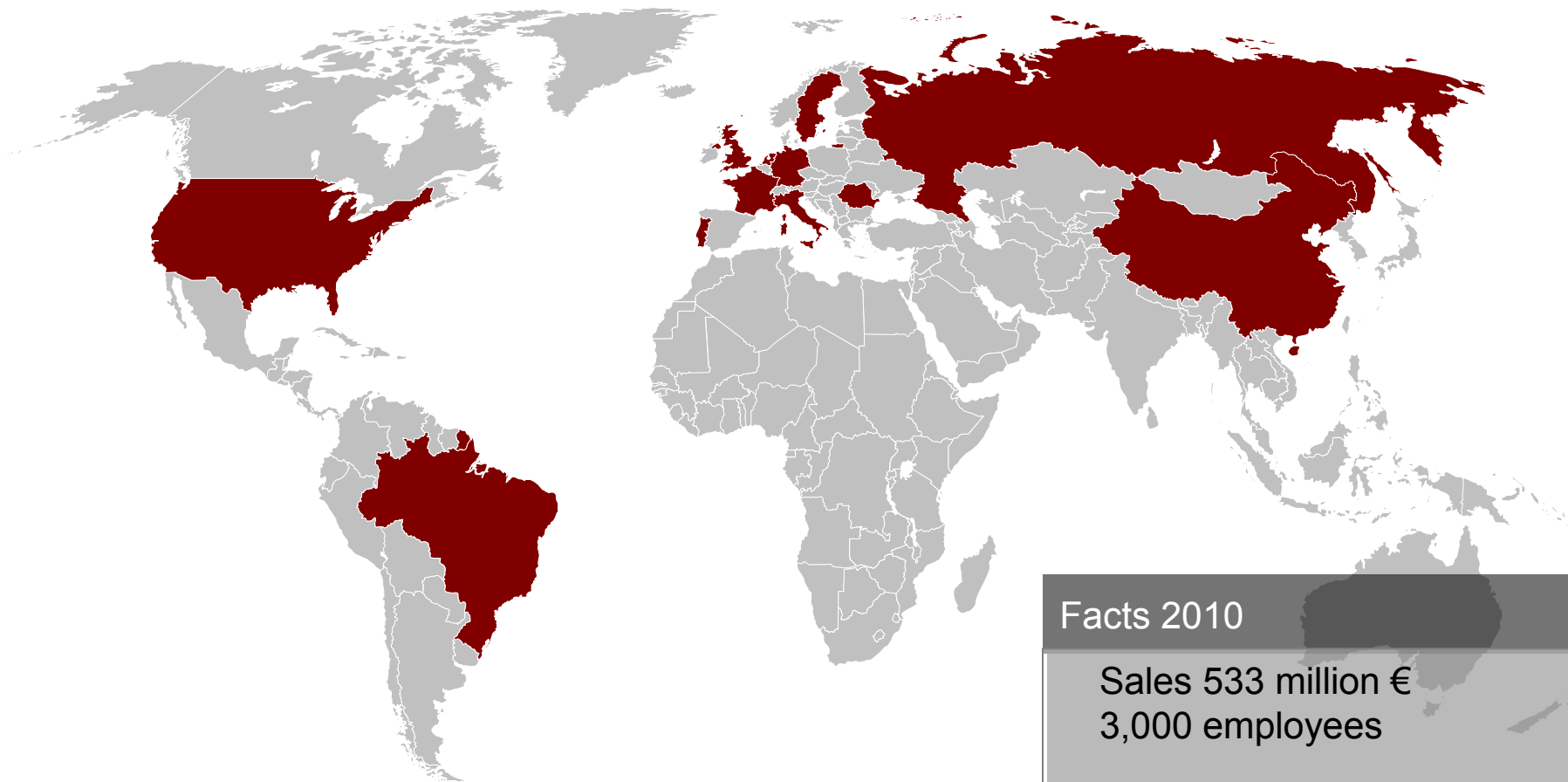
since 1995

Substantial growth of the Zollern group internally

2007

ZOLLERN exceeds 500 million € sales

After more than 300 years ZOLLERN belongs to the holding of the royal family of Hohenzollern in the 10th generation.

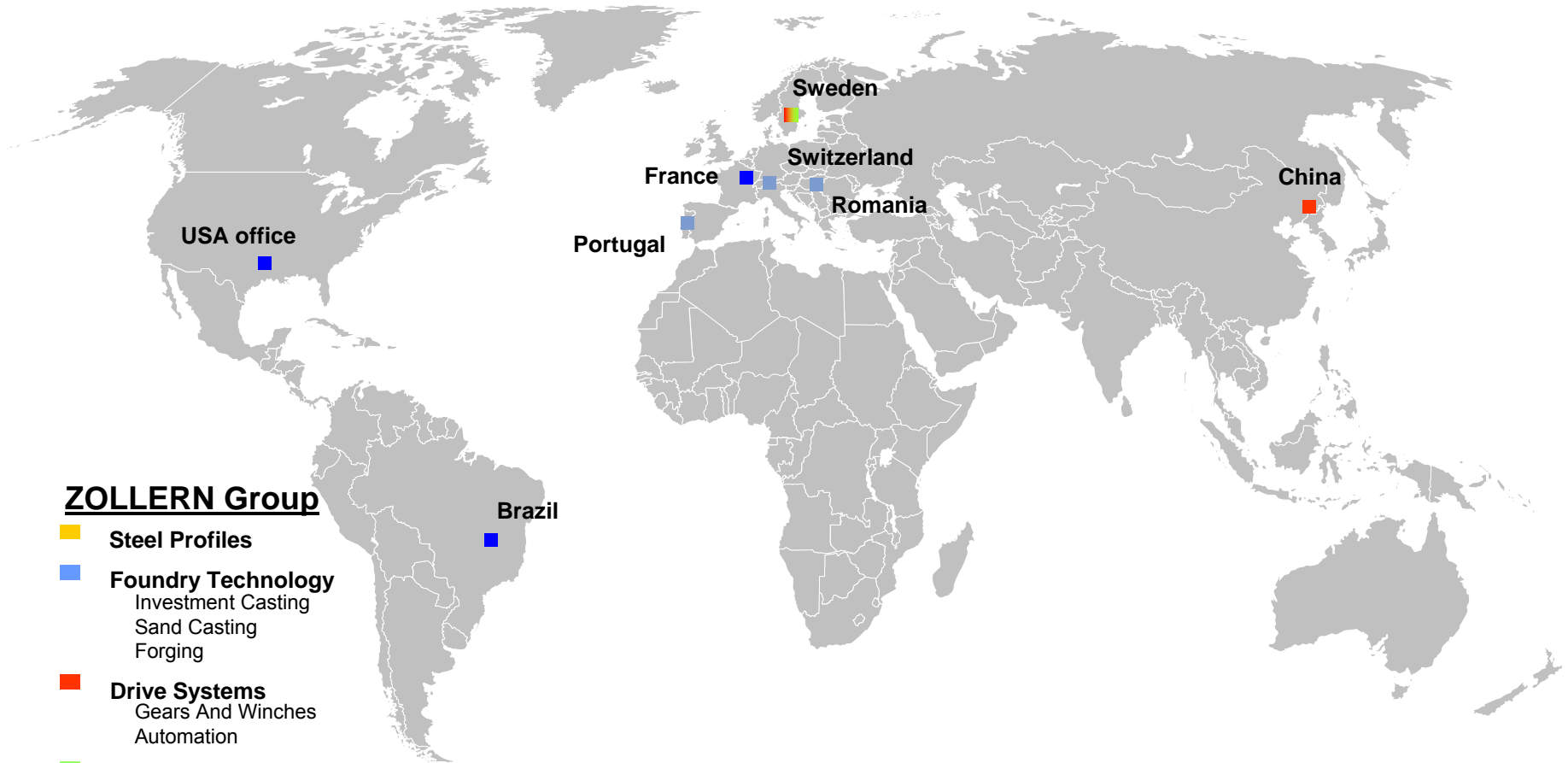


Facts 2010

Sales 533 million €
3,000 employees

■ 15 plants and offices

Global network of agents



ZOLLERN Group

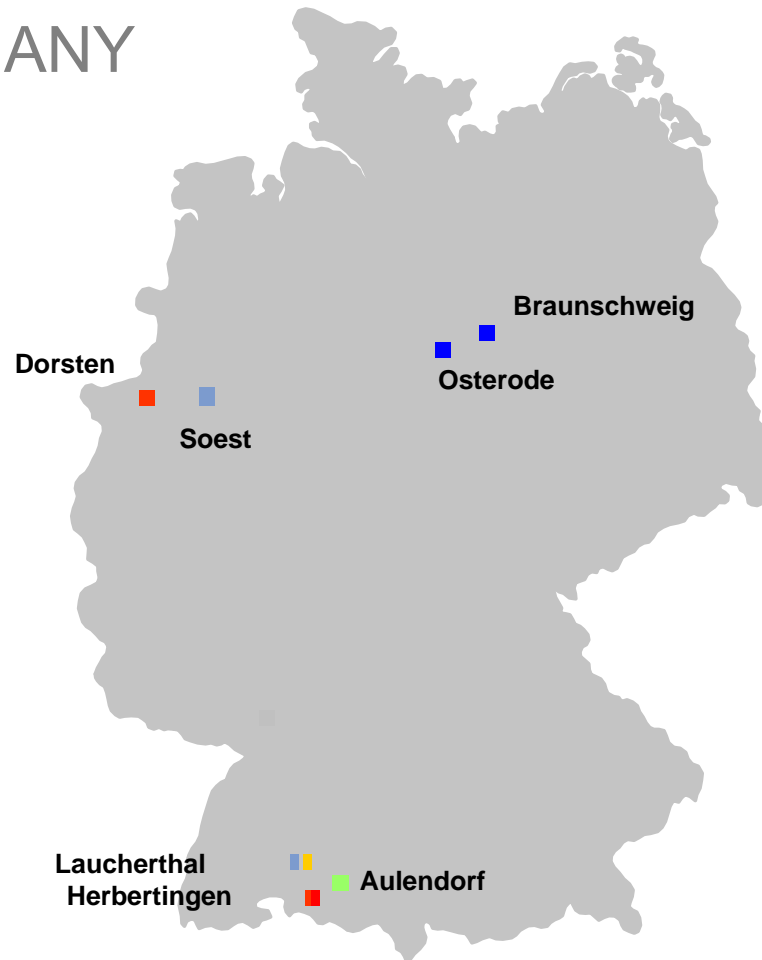
- **Steel Profiles**
- **Foundry Technology**
 - Investment Casting
 - Sand Casting
 - Forging
- **Drive Systems**
 - Gears And Winches
 - Automation
- **Mechanical Engineering Components**
- **Plain Bearing Technology**

По всем вопросам обращайтесь в наш офис ООО "ТИ-Систем":

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LOCATIONS GERMANY



ZOLLERN Group

- Steel Profiles**
- Foundry Technology**
 - Investment Casting
 - Sand Casting
 - Forging
- Drive Systems**
 - Gears And Winches
 - Automation
- Mechanical Engineering Components**
- Plain Bearing Technology**

Products & Technical Competencies



Foundry Technology

- Investment Casting
- Sand Casting
- Forging



Power Transmission

- Gears
- Winches



Plain Bearing Technology

- Plain Bearings
- Hydro- And Aerostatic Bearings



Steel Profiles



Mechanical Engineering Components



Core Markets

Energy Sector

- Water
- Wind
- Nuclear
- Fossil

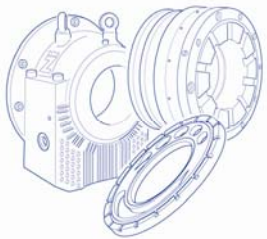
Automotive

Ship, Port, Offshore

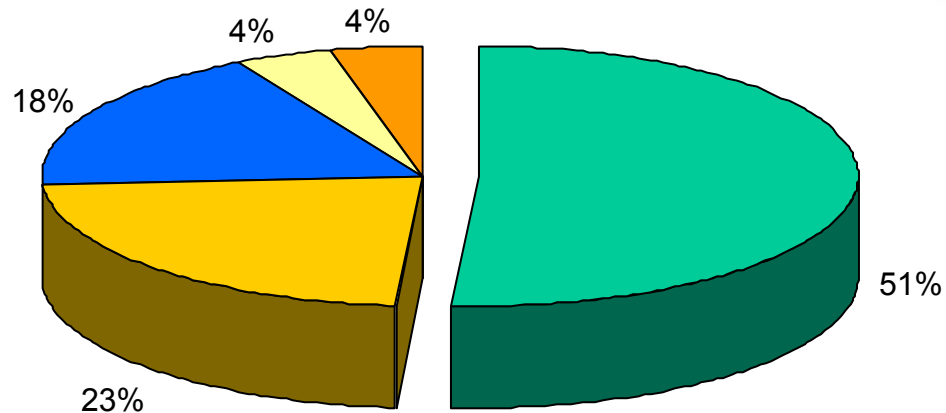
Construction Industry

Aerospace

Mechanical Engineering



Industrial Bearings



Engine Bearings

■ Tilting Pad And Thickwalled Bearings
 ■ Hydrostatic Appl.
 ■ Housing Bearings
 ■ Hydraulic Appl.
 ■ Engine Bearings

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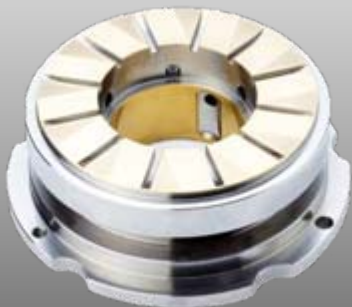
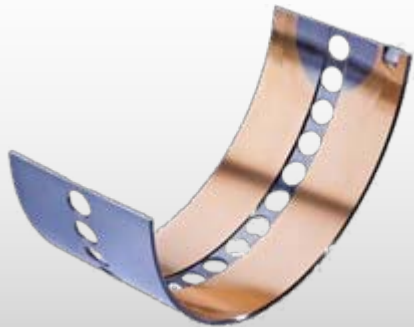
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Plain Bearing Technology

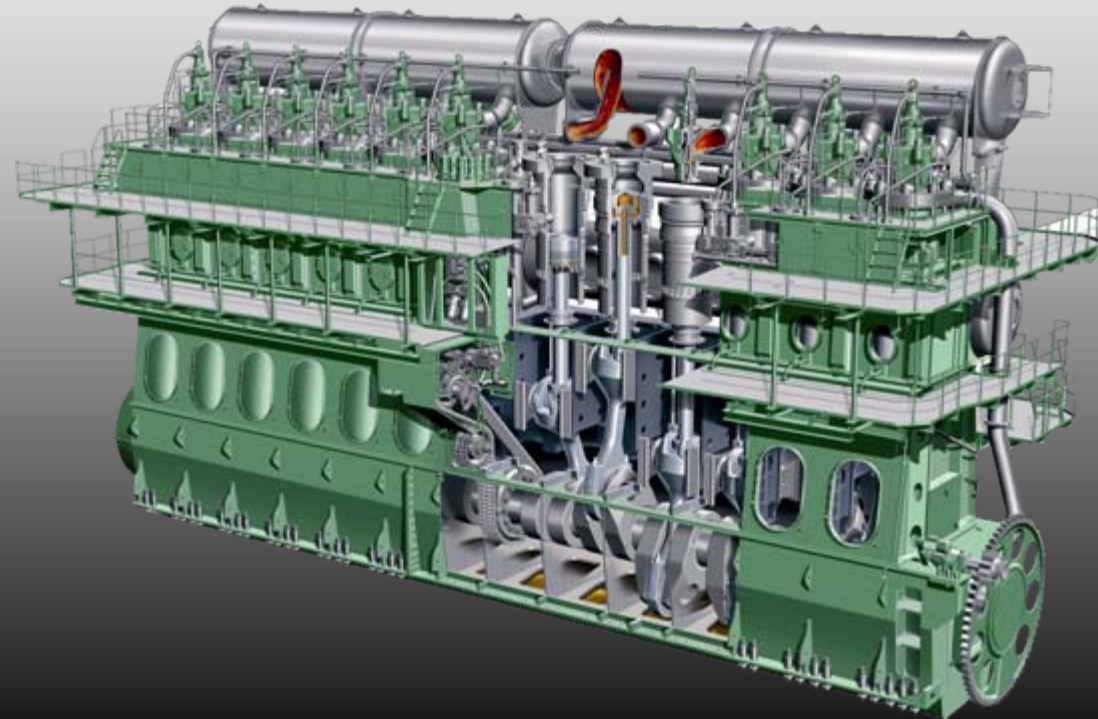
Products



Engine Bearings



- Main Bearing
- Conrod Bearing
- Crosshead Bearing
- Thrust Washer
- Camshaft Bearing
- Bushing



2-Stroke
4-Stroke

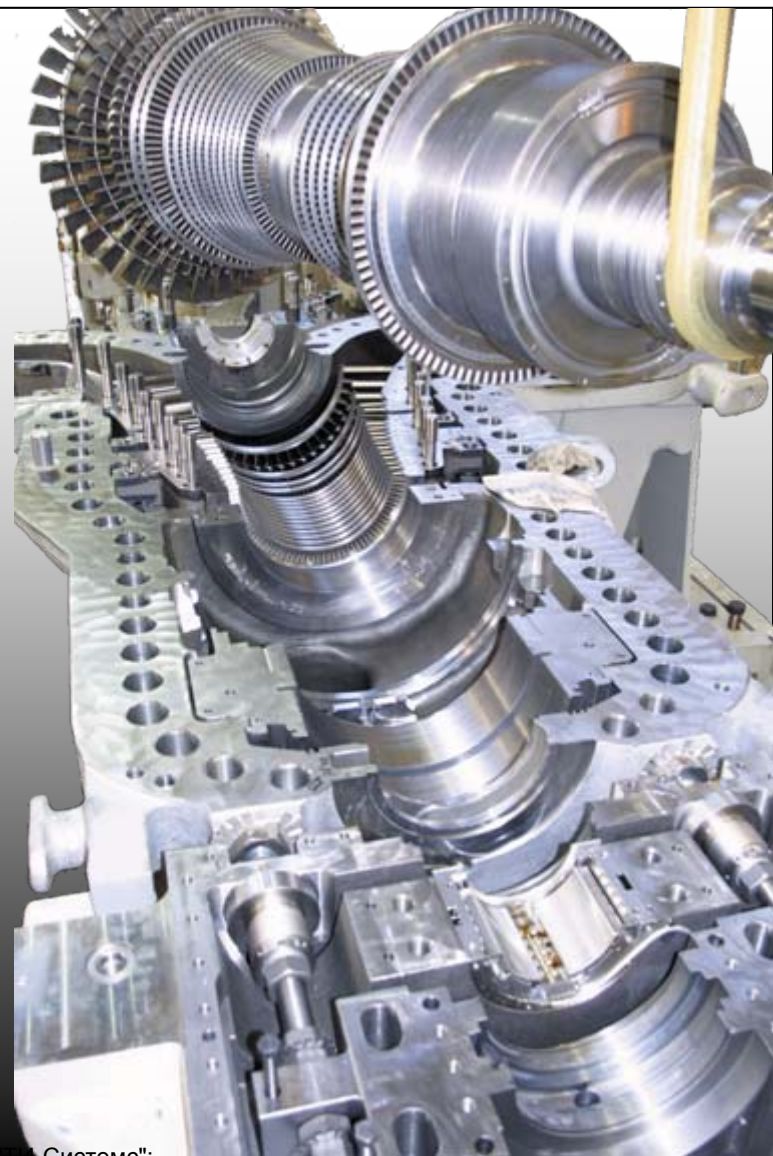
Plain Bearing Technology Products



Industrial Bearings



Tilting Pad Bearing
Journal Bearing
Thrust Bearing
Combined Bearing



Z-Bearings



Housing Slide Bearing
Centerflange Bearing
Flange Bearing



Plain Bearing Technology Products

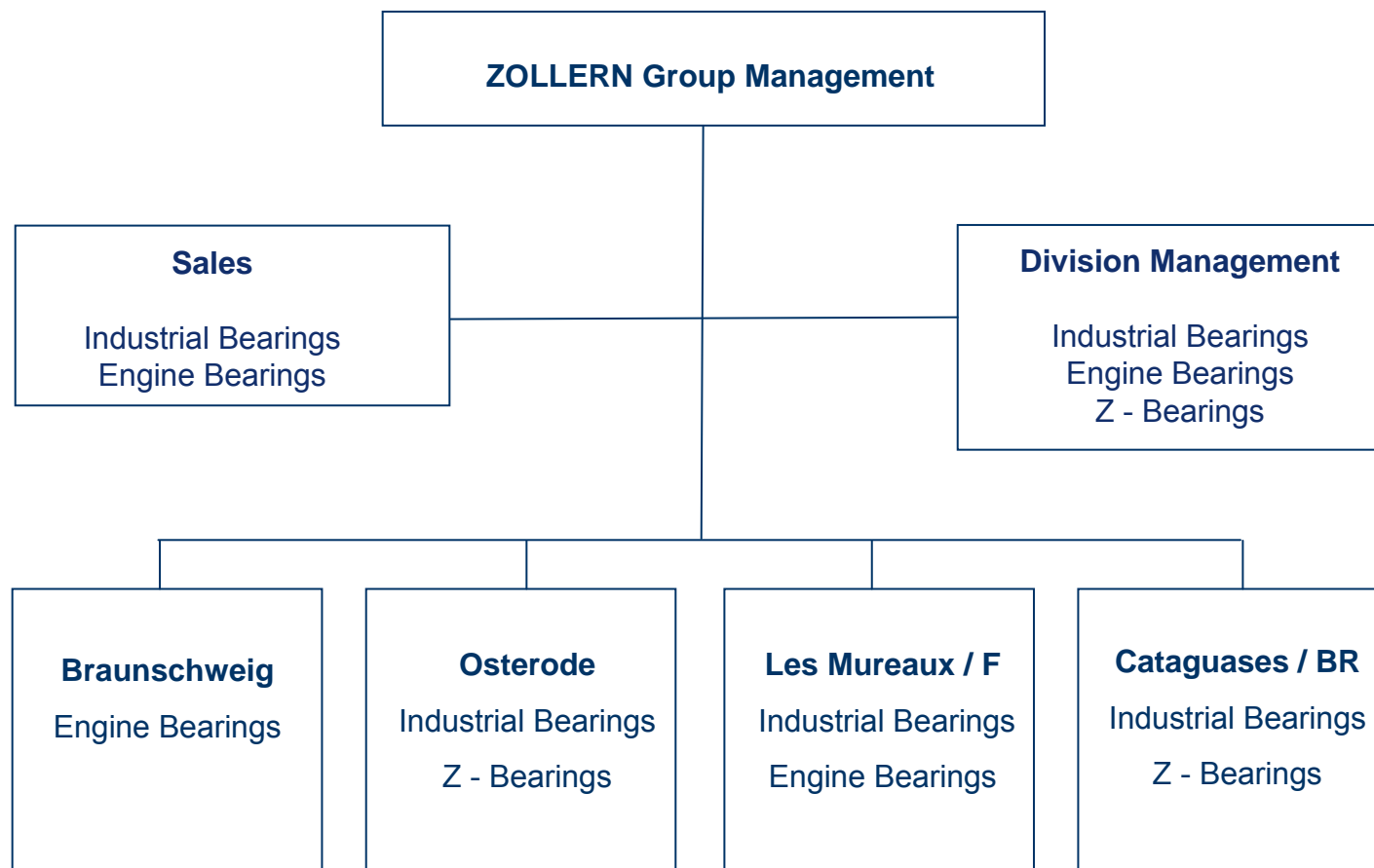


Hydraulic



- Valve Plate
- Holding Down Device
- Rotating Unit
- Swash Plate
- Slipper Retainer





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Organisation

Bearing Divisions



Braunschweig



Osterode



Les Mureau



Cataguases

Revenues

39.0 Mio.€

21.0 Mio.€

4.5 Mio.€

14.0 Mio.€

Headcount

346

135

39

206

Status 2010

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Center of Excellence: Plain Bearings

Braunschweig

- Bushings 25 - 800mm
- Mid Size Bearings 70 - 550mm
- Large Size Bearings 550 - 1100mm

Revenues

39.0 Mio.€

Headcount

346

Status 2010

➤ DIN EN ISO 9001:2008 certified



Center of Excellence: Industrial Bearings

Osterode

- Z- Bearings Gr. 7 - 112
- Journal Bearing 16mm – 1000mm
- Tilting-Pad Bearing 80mm – 800mm
- Hydraulic Components

Revenues

21.0 Mio.€

Headcount

135

Status 2010

- DIN EN ISO 9001:2008 certified



Center of Excellence: Hydropower

Cataguases

- Hydro electric thrust / guide pads = 100 - ∞ mm
- Hydro electric guide bearings = 100 - 3200mm
- Vertical Bearings for pumps, motors, generators and turbines (up to 3,2 m housing OD);

Revenues

14.0 Mio. €

Headcount

206

Status 2010

➤ DIN EN ISO 9001:2008 certified

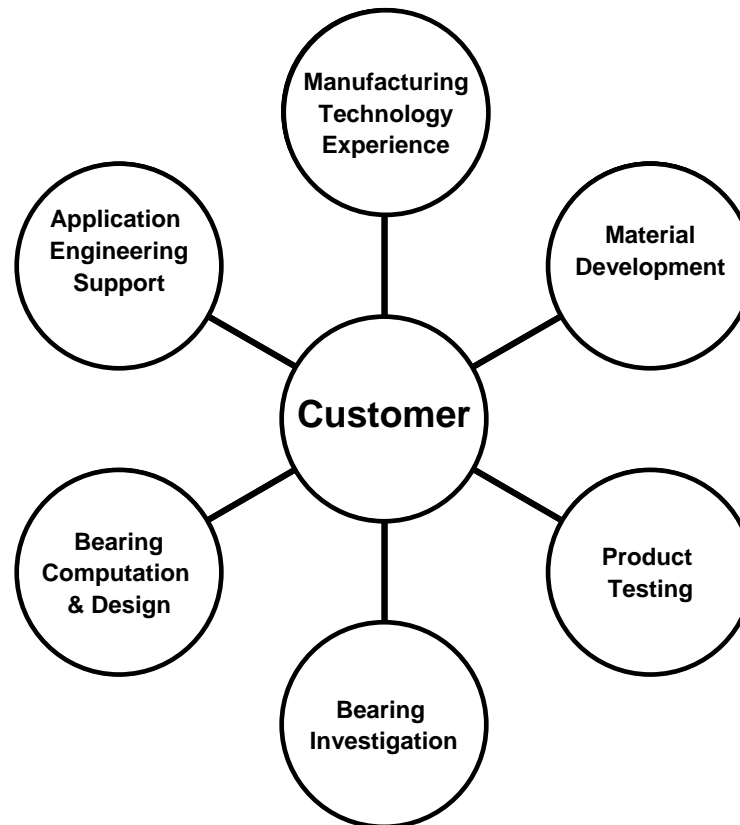
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Plain Bearing Technology

Focus On The Customer



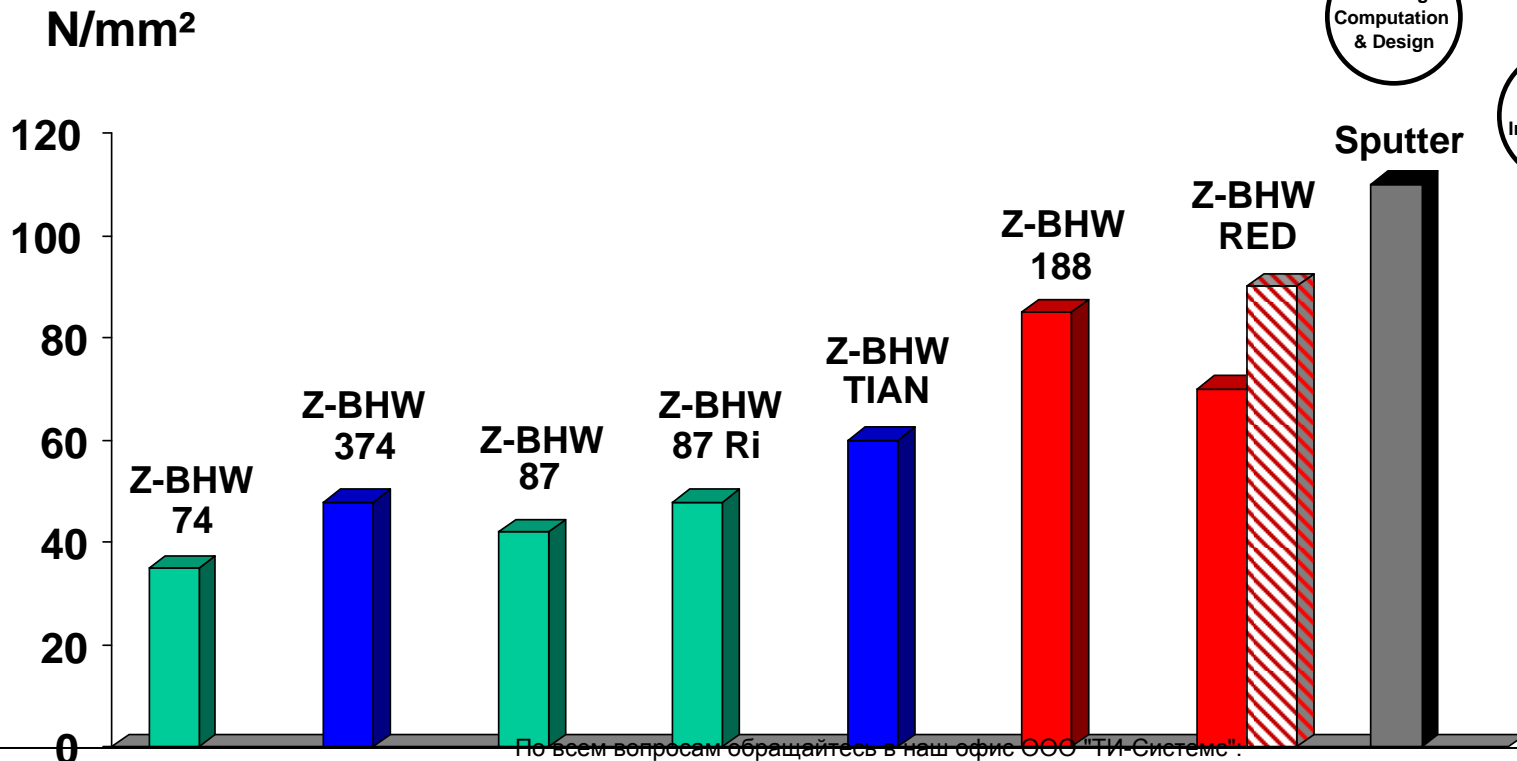
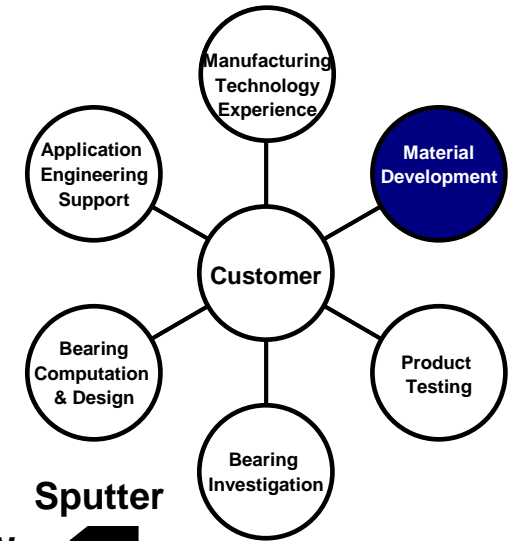
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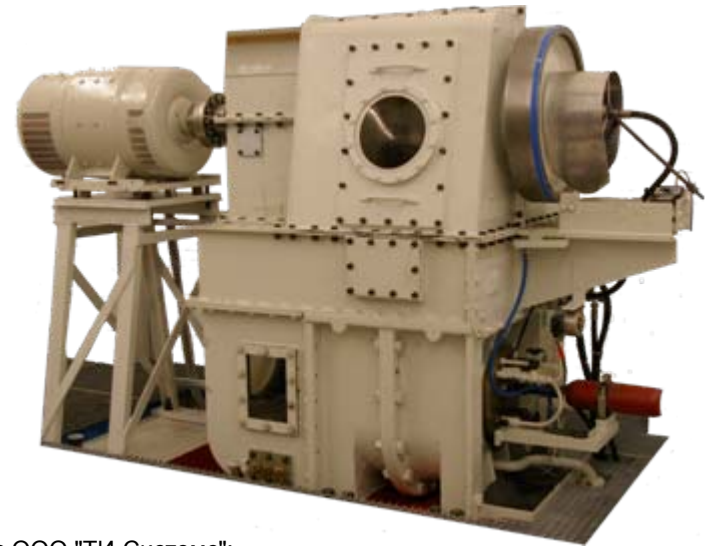
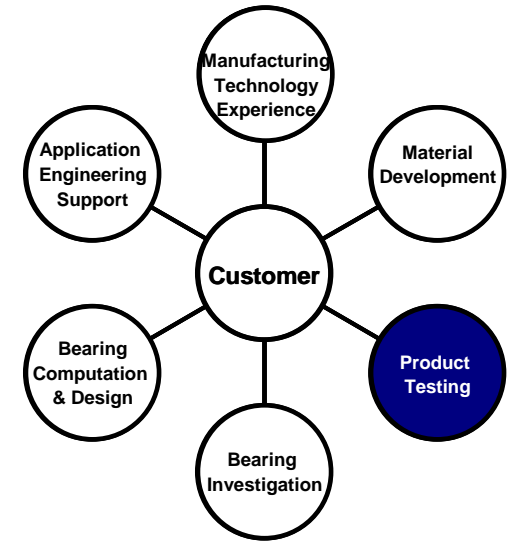
Focus On The Customer



По всем вопросам обращайтесь в наш офис ООО "ТИ-Системы":

World's Leading Test Bench Technology

- Simulation of 2-stroke and 4-stroke load cycle
- Variation of different loads and vectors



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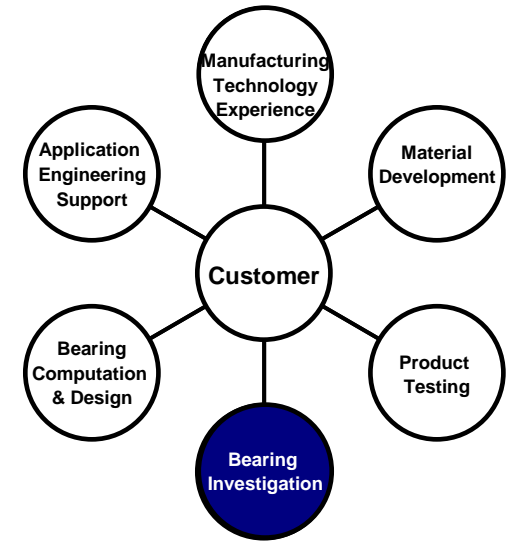
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Plain Bearing Technology

Focus On The Customer



- On Site Inspections By Our Engineers
- Causal Research

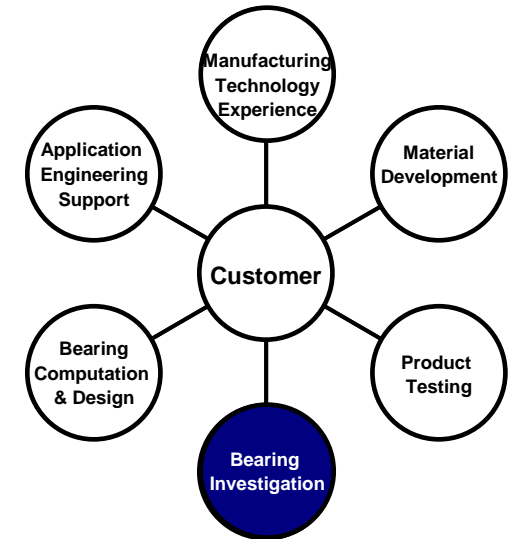


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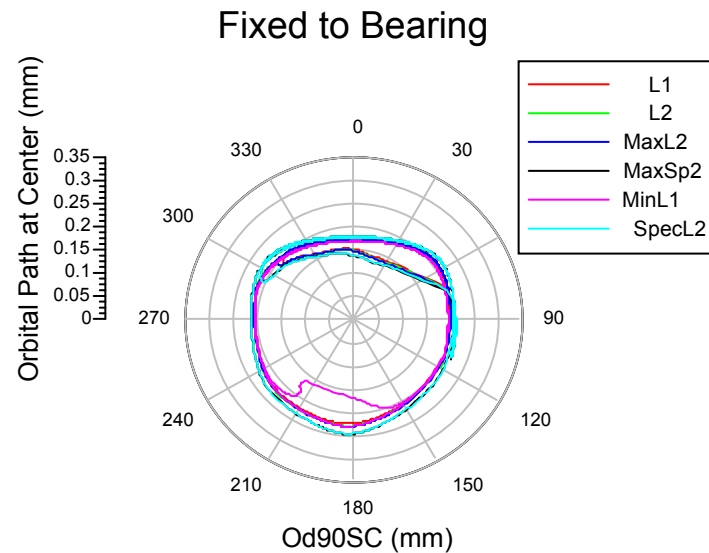
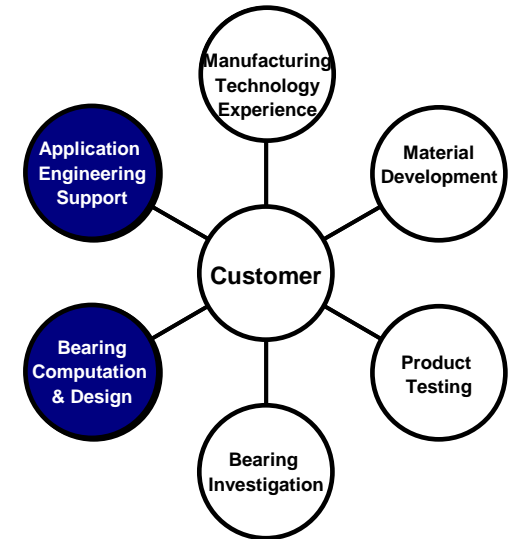
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- Reconditioning Of Damaged Bearings



From Development Stage Series

- (T)EHD And HD– Calculation
- Prototype Bearings
- Creation Of Drawings



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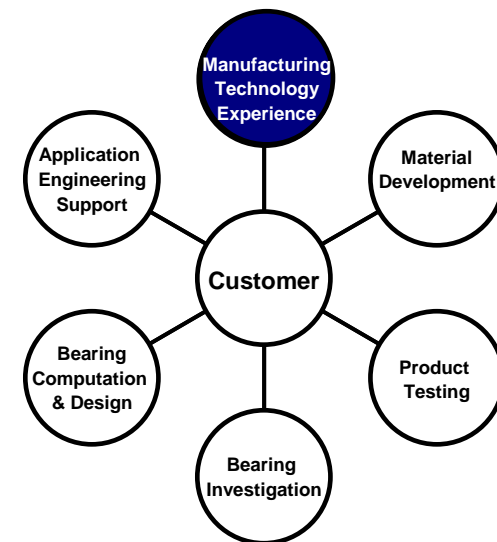
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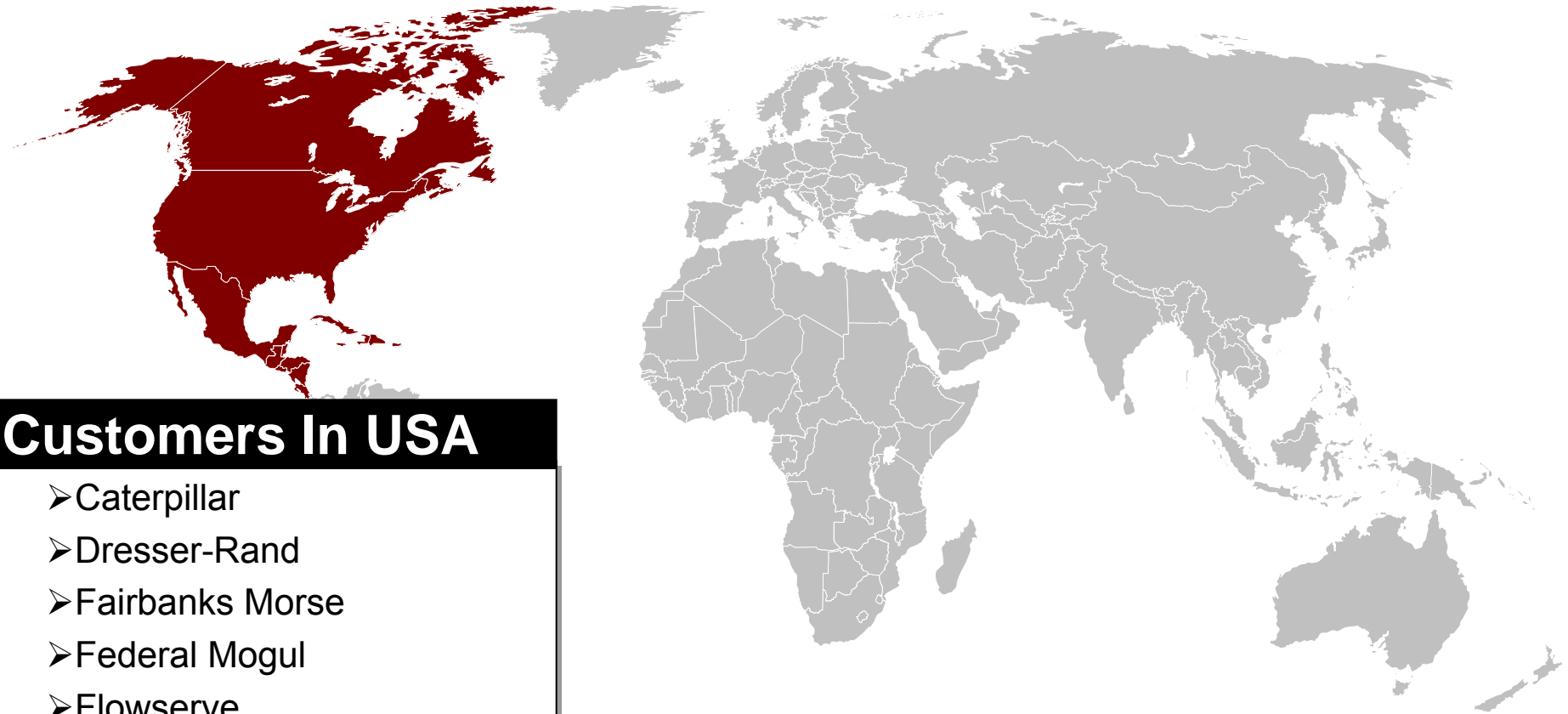
Plain Bearing Technology

Focus On The Customer



- Three Gorges Dam (China)
- Emma Maersk (RTA-96 C)
- Queen Mary II





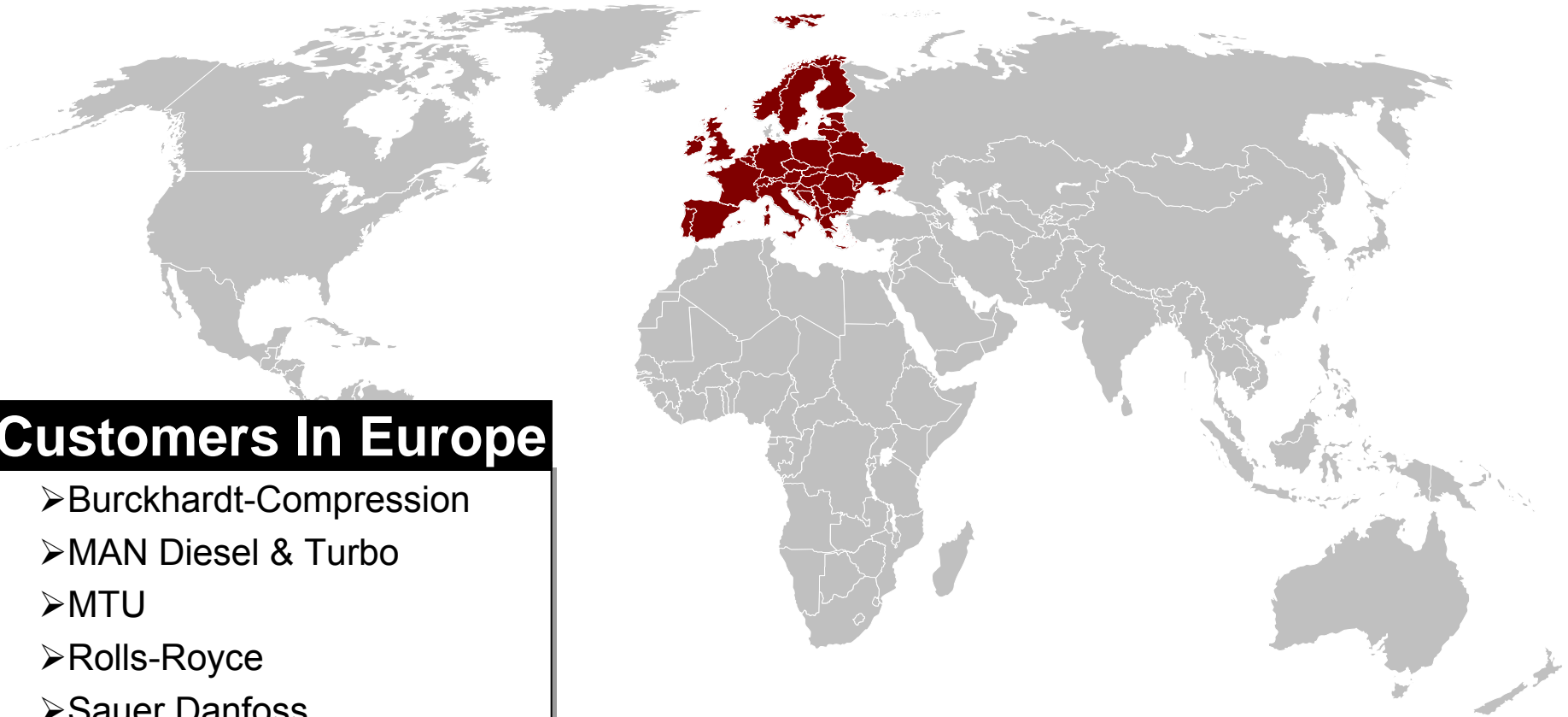
Customers In USA

- Caterpillar
- Dresser-Rand
- Fairbanks Morse
- Federal Mogul
- Flowserve
- General Electric
- Parker Hannifin
- SPX

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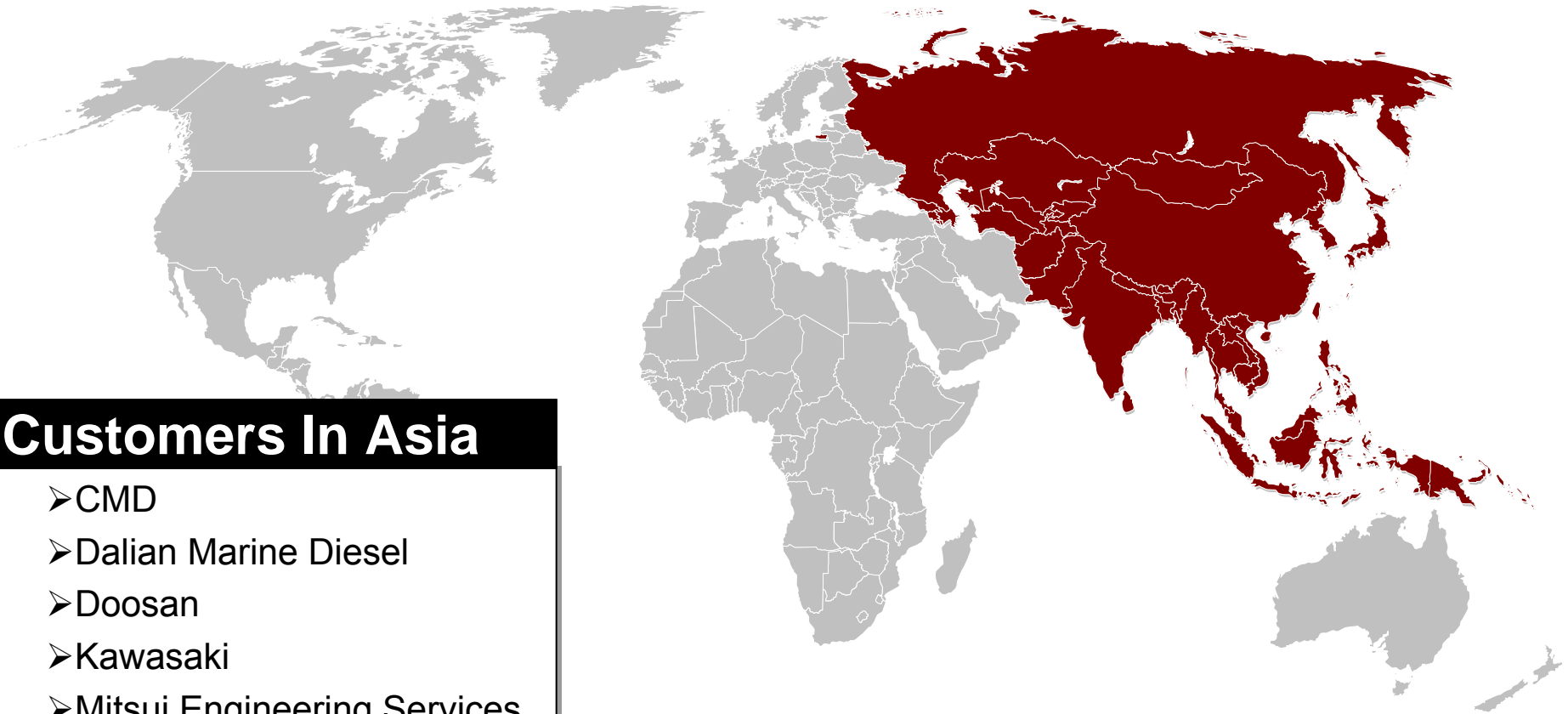
Customers In Europe

- Burckhardt-Compression
- MAN Diesel & Turbo
- MTU
- Rolls-Royce
- Sauer Danfoss
- Siemens
- Thomassen
- Wärtsilä

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Customers In Asia

- CMD
- Dalian Marine Diesel
- Doosan
- Kawasaki
- Mitsui Engineering Services
- Niigata
- Qingdao Marine Diesel
- Shaanxi Diesel

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Thank you for your attention!

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