

beinlich pump
systems

VSE.flow

DST. magnetic
couplings

HBE. hydraulic
components

oleotec
COMPONENTI OLEODINAMICI



上海柔肯液压科技有限公司

<http://www.roken.com.cn/>

Tel: 021-6180 8099 Fax: 021-6259 5096

Echterhage - holding

Industrial divisions

Development & production



- pump systems
- 0,1 cm³/rev – 2600 cm³/rev

Gevelsberg /
Germany



- flow measurement technology
- 0,002 cm³/min.....525 l/min

Neuenrade/
Germany

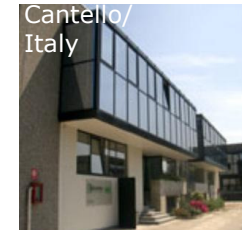


- magnetic coupling systems



- oil tanks
- hydraulic components
- drive couplings

Cantello/
Italy



- hydraulic components
- measurement instrumentation

Echterhage - Group

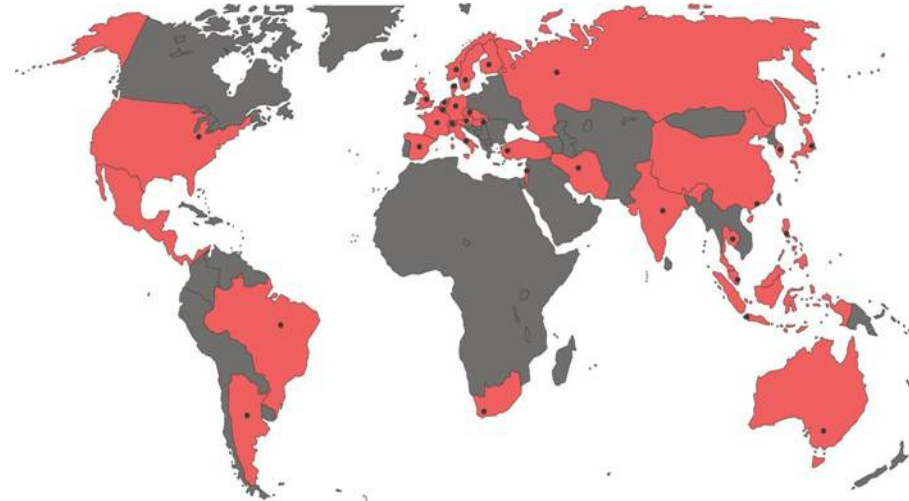
distribution & Service worldwide

Argentinien
Australien
Belgien
Brasilien
China
Dänemark
Deutschland
Finnland
Frankreich
Großbritannien
Indien
Indonesien
Iran

Israel
Malaysia
Italien
Japan
Kanada
Korea
Kuweit
Malaysia
Mexiko
Niederlande
Norwegen
Österreich

Philippinen
Polen
Russland
Schweden
Schweiz
Slowakei
Spanien
Süd-Afrika
Tschechien
Türkei
Ungarn
USA

IC.flow **UK**.flow **Suco**
VSE.France **BEDA**.flow **GFS** German Fluid
德国流体系统有限公司 Systems



Beinlich Pumpen GmbH



上海柔肯液压科技有限公司

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Key markets 市场

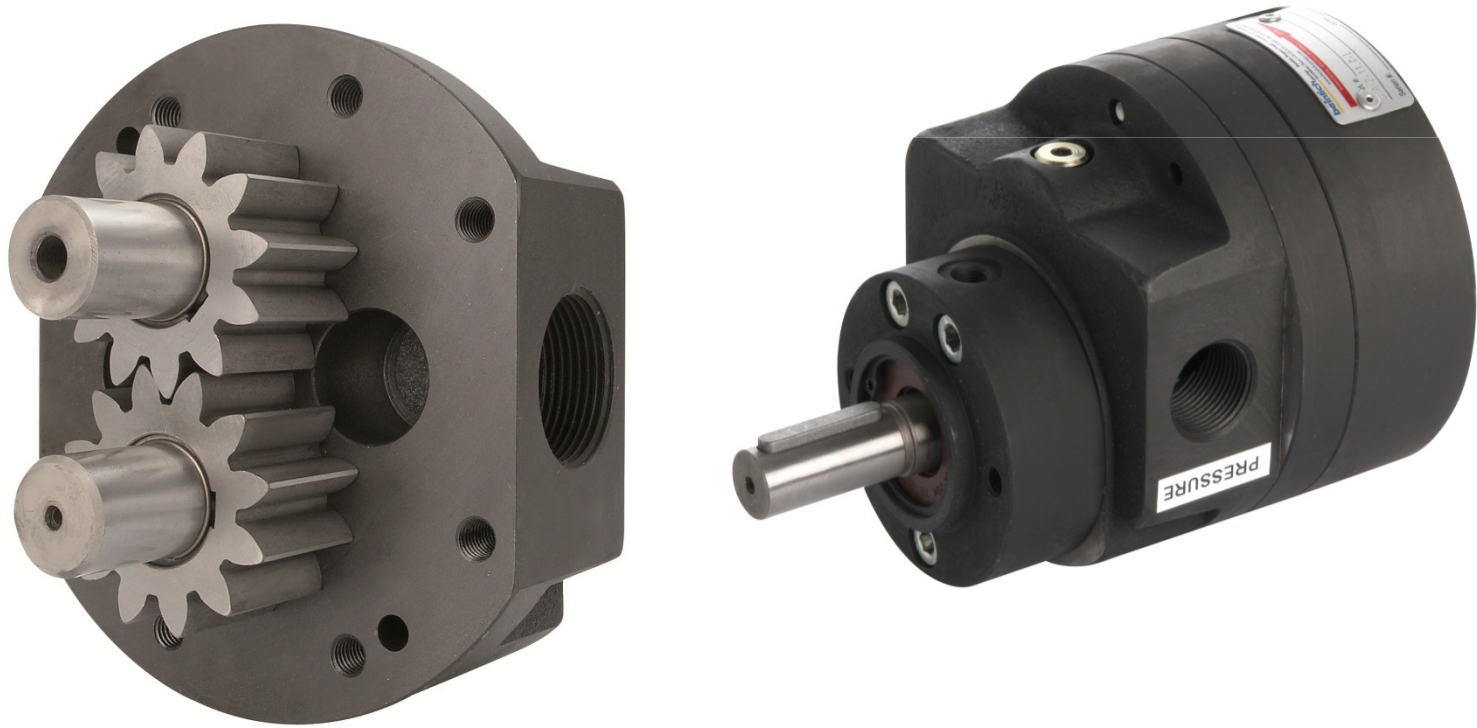
- ✓ Electronic entertainment (Mobile Phone, Television)
电子产品(手机, 电视)
- ✓ Bonding (Glue) in automotive and glass industry
各种粘接 / 汽车 和 玻璃工业
- ✓ Hot melt in packaging industry
热熔胶 / 包装行业
- ✓ Heating and Cooling (thermal oil and cooling liquids)
- ✓ Test benches

Target market

目标市场

- ✓ Hydraulic 液压
- ✓ Chemical and process industry 化工
- ✓ Dosing and Transfer 定量和输送
- ✓ Petrogas industry 液化气行业
- ✓ Food industry 食品行业

Gear pump with external gears

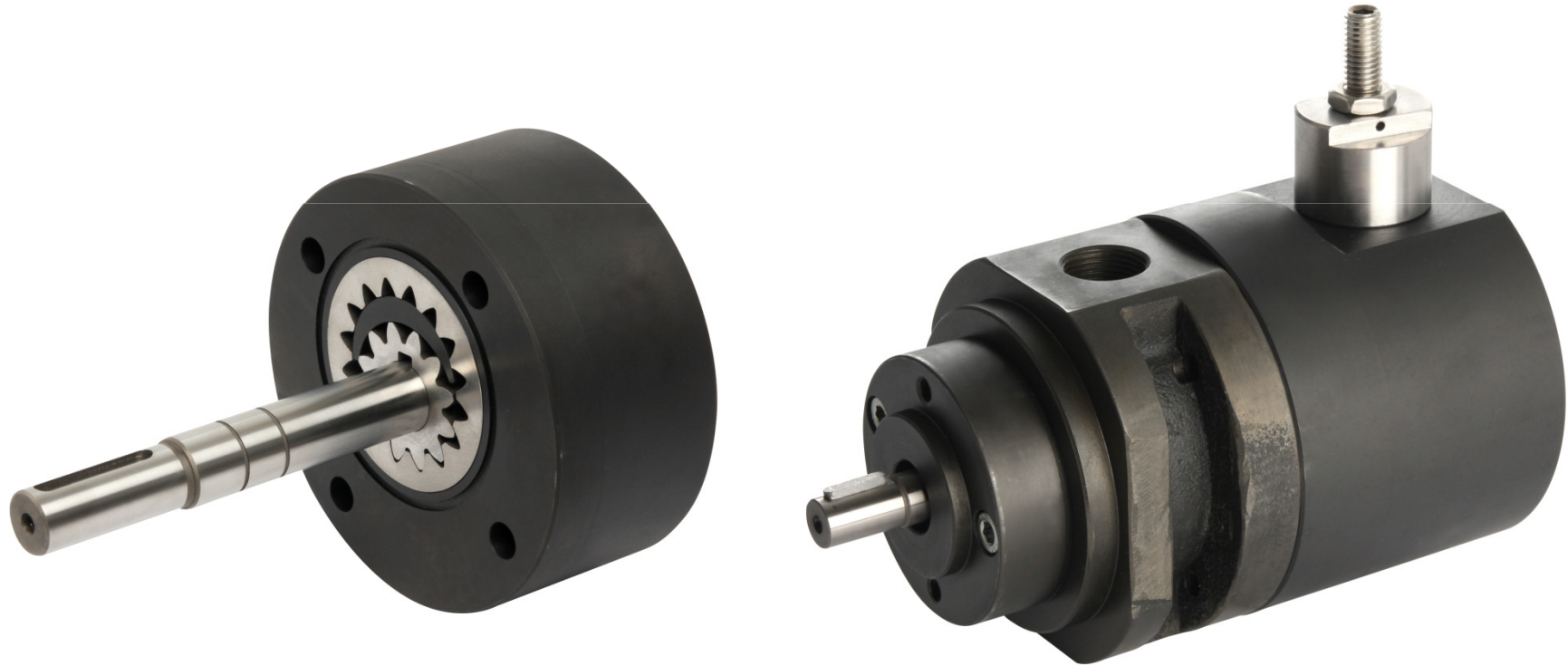


- ✓ Available in different material selections 可选不同材质
- ✓ Available in different sealant options 不同密封材料和形式
- ✓ Available for 0,1 – 2600cc/rev

Use...

- ✓ ...any fluid application, no matter if lubricant or non lubricant, no matter if there are any fillers or not.
- ✓ ...for fluids with viscosities of 0,8 to 2.000.000mPa*s and sometimes even more or less.
最高可处理材料粘度可达 2百万mPa.s
- ✓ ...for pressure up to 200bar. In my family we have a few versions which can even work for higher pressures.

Gear pump with internal gears

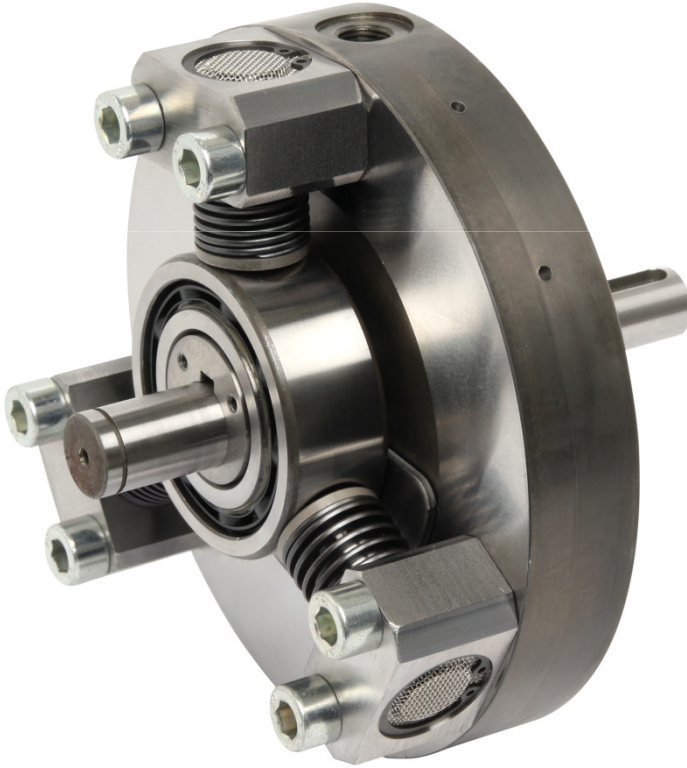


- ✓ Available in different material selections
- ✓ Available in different sealant options
- ✓ Available for 1,0 – 207cc/rev

Use...

- ✓ ...any fluid application, no matter if lubricant or non lubricant.
- ✓ ...for fluids with viscosities of 0,8 to 1.000mPa*s and sometimes even more or less.
- ✓ ...for pressure up to 120bar. In my family we have a few versions which can even work for higher pressures.

Radial piston pump



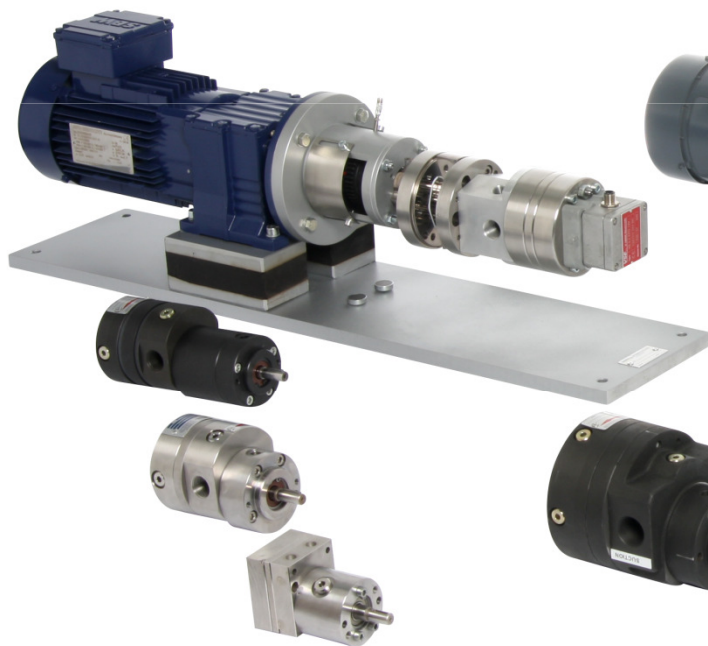
- ✓ Available with/without housing or coating
- ✓ Available in different sealant options
- ✓ Available for 0,6 – 41,4cc/rev

Use...

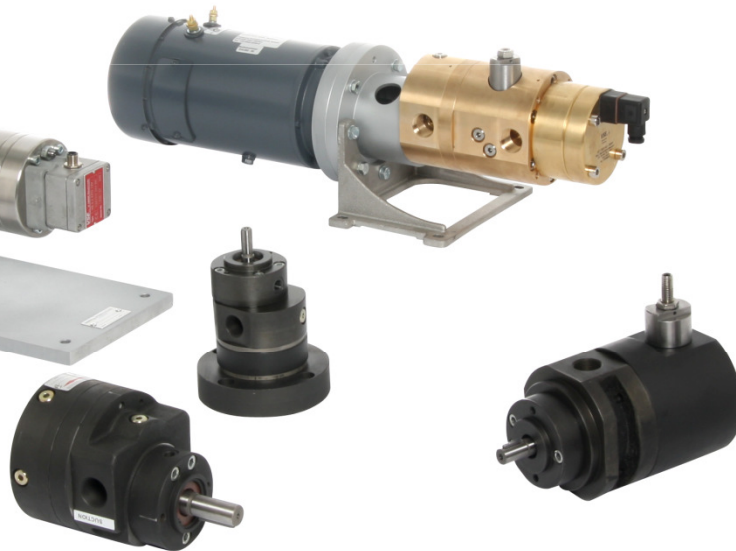
- ✓ ...any fluid application, no matter if lubricant or non lubricant.
- ✓ ...for fluids with viscosities of 0,8 to 800mPa*s and sometimes even more or less.
- ✓ ...for pressure up to 700bar.

Complete family

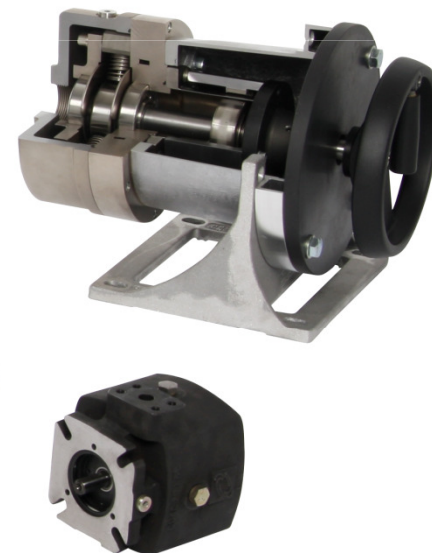
External gear pumps



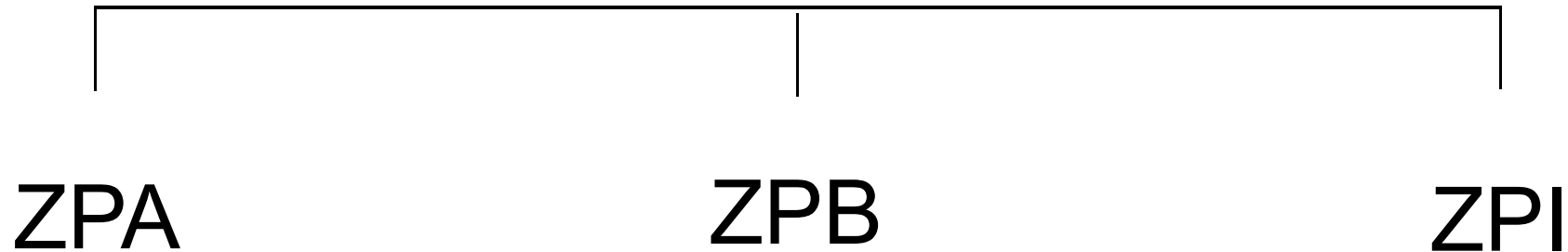
Internal gear pumps



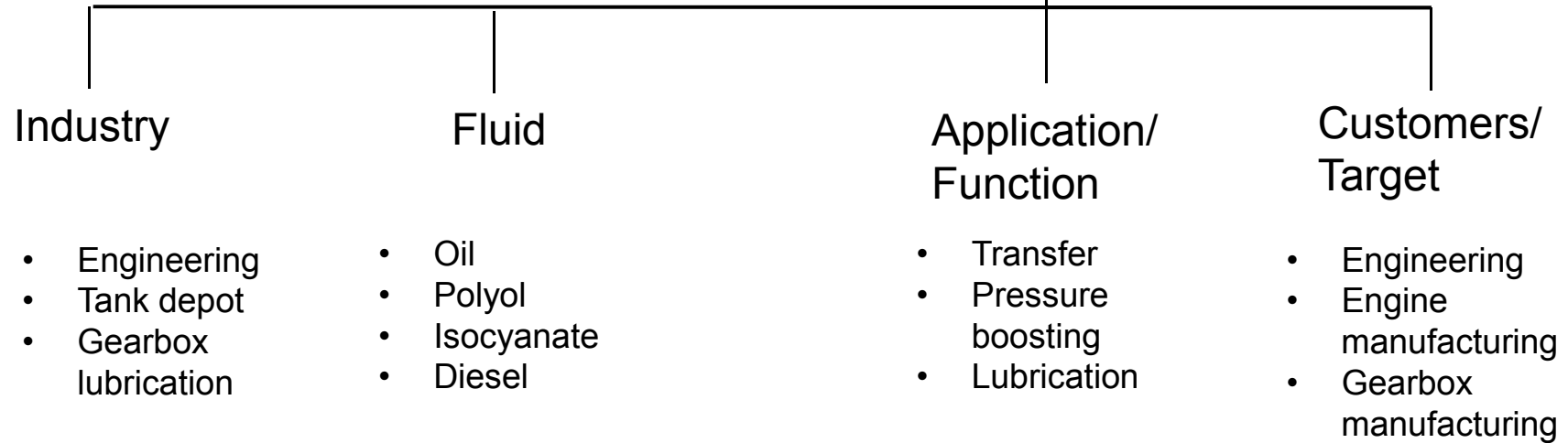
Radial piston pumps



Transfer pumps



Transfer pumps



Applications

- ✓ Engine test benches
- ✓ Gearbox Filling Station
- ✓ Booster applications

Competitive advantages

- ✓ Various material combinations
- ✓ Higher pressures
- ✓ Increased durability
- ✓ High efficiency
- ✓ Application related test
- ✓ Customized and innovated solutions

Customers 客户

✓ MAN



✓ Index



✓ Kasto



✓ Neuman Esser



Dosing pumps 定量泵



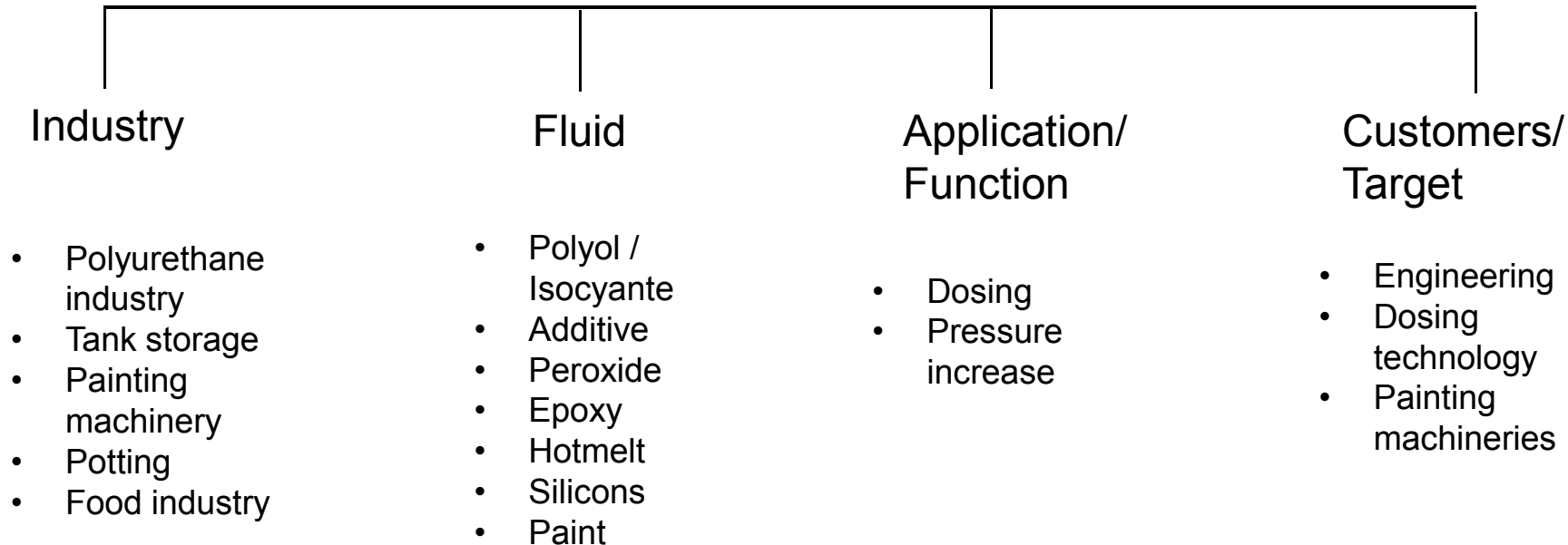
ZPD

ZPBD

ZPDA

DARTec

Dosing pumps



Applications应用

- ✓ Potting machinery 灌封/封装
- ✓ 2-Component application / 3-Component application
2组分或3组分定量、混合应用
- ✓ Hotmelt application
热熔胶

Competitive advantages

- ✓ Various material combinations
- ✓ Higher pressures
- ✓ Increased durability
- ✓ High efficiency
- ✓ Application related test
- ✓ Customized and innovated solutions

Customers 客户

✓ Hilger & Kern



Hilger u. Kern

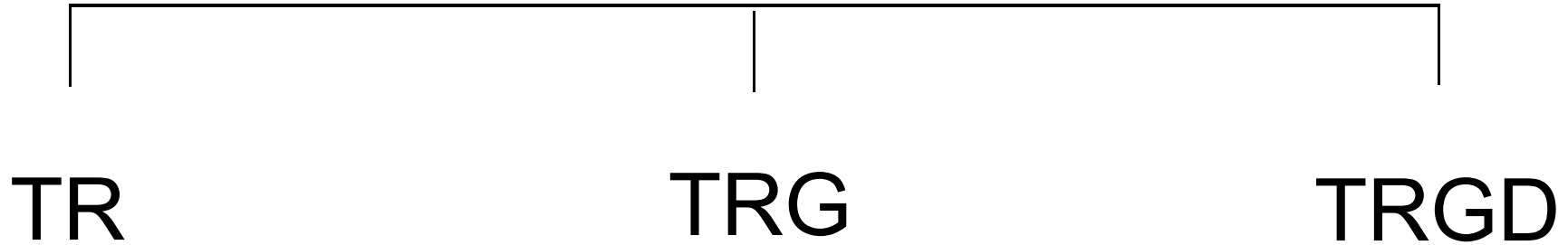
✓ Rosenbauer



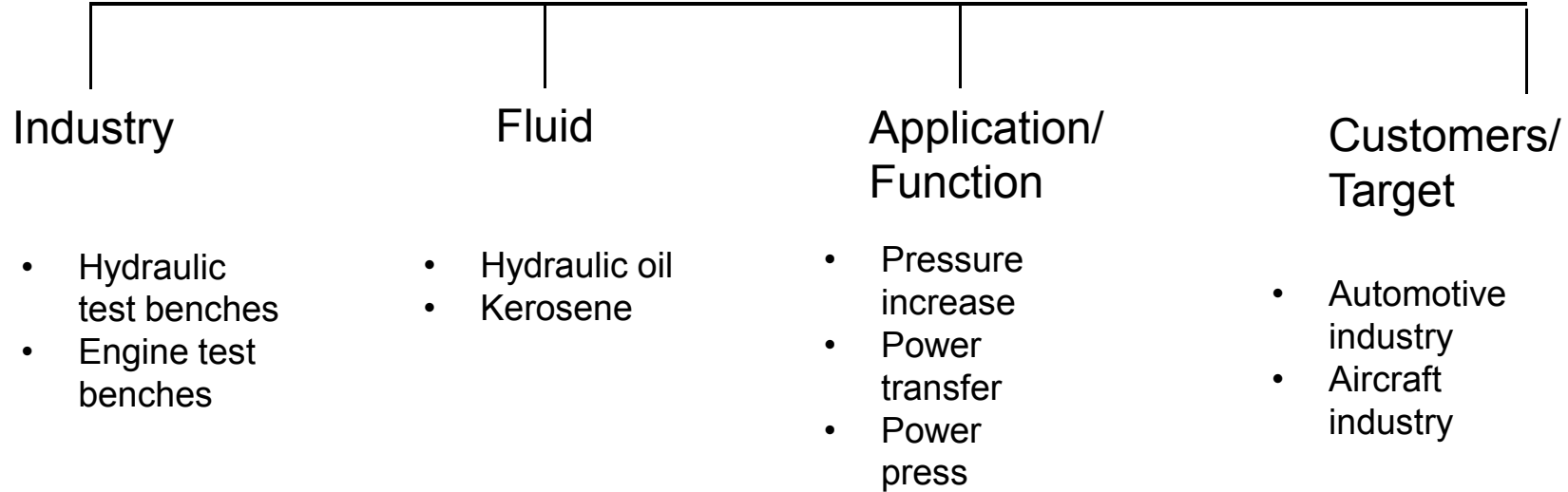
✓ PVA



Radialpiston Pumps



Radialpiston Pumps



Applications

- ✓ Engine test benches
- ✓ Jet engine test benches
- ✓ Hydraulic test benches

Competitive advantages

- ✓ Coatings
- ✓ Increased durability
- ✓ High efficiency
- ✓ Application related test
- ✓ Customized and innovated solutions

Customers

- ✓ HPS
- ✓ Bürkle (SMG)
- ✓ Bosch
- ✓ Krauss Maffei
- ✓ Afros
- ✓ IAC



Krauss Maffei



Afros Division

Application examples

Hotmelt-sealing machine in the glass industry

Hotmelt-sealing machine in the glass industry

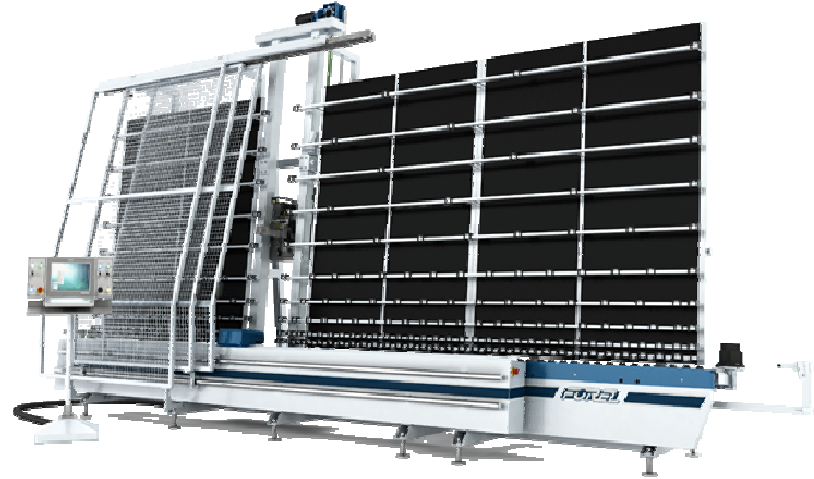


Common pump features

- ✓ plate assembling inlet in rear plate
- ✓ with heating supplied through us or direct on plate
- ✓ low speed from 10 to max. 100 rpm
- ✓ not more than 120 bar working pressure
- ✓ cast iron housing
- ✓ double lip seal or gland packing
- ✓ fluid temperature between 160 to 190 ° C
- ✓ not more than 3 l/min flow rate

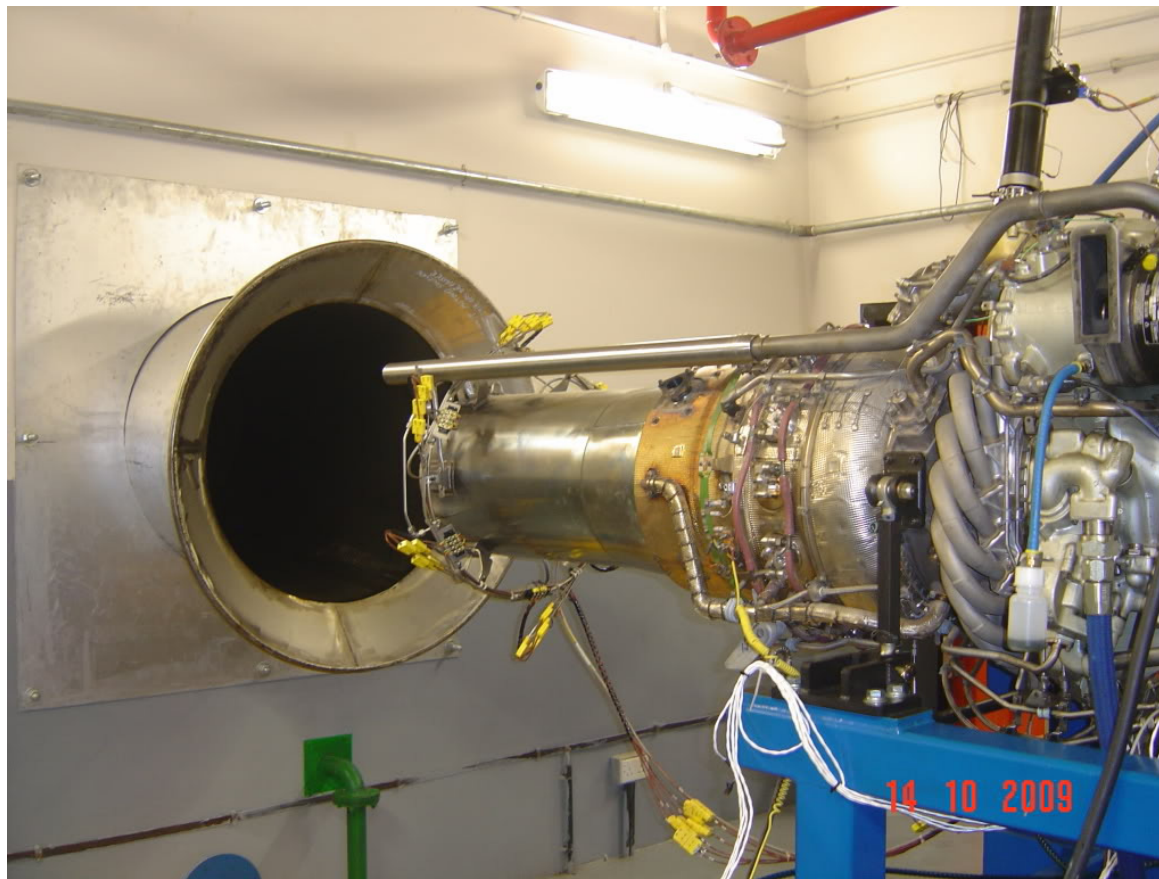
Pump models

- ✓ ZPD Hotmelt
- ✓ ZPDA
- ✓ ZPDE



Hydraulic test bench

Aircraft test bench

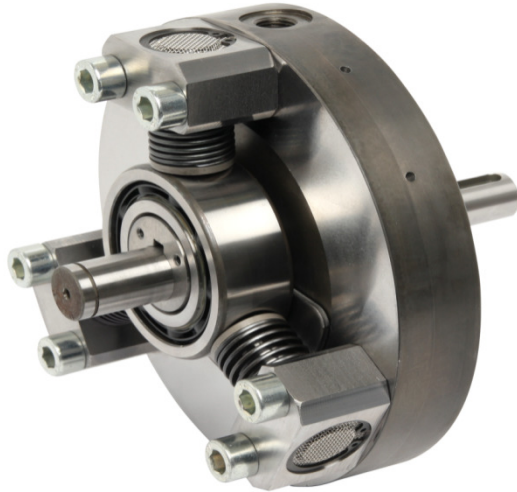


Common pump features

- ✓ high speeds from 680 to max. 3000 rpm
- ✓ working pressure between 1 - 700bar
- ✓ cast iron housing
- ✓ magnetic coupling
- ✓ fluid temperature between 20 to 130 ° C
- ✓ wide range of flow rates

Pump models

- ✓ ZPD
- ✓ ZPA
- ✓ TR / TRG / TRGD



Rotor blade production

Rotor blade production



Common pump features

- ✓ low speeds from 100 to max. 680 rpm
- ✓ not more than 120 bar working pressure
- ✓ cast iron housing
- ✓ triple shaft seal
- ✓ fluid temperature between 20 to 130 ° C
- ✓ flow rates between 2 – 50l/min

Pump models

- ✓ ZPDA
- ✓ DARTec
- ✓ ZPD
- ✓ ZPA



Fire engine

Fire engine



Fire engine



Common pump features

- ✓ high speeds from 1000 to max. 3000 rpm
- ✓ not more than 50 bar working pressure
- ✓ stainless steel or bronze housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 130 ° C
- ✓ wide range of flow rates

Pump models

✓ZPD

✓ZPA



Dispensing System

Dispensing System

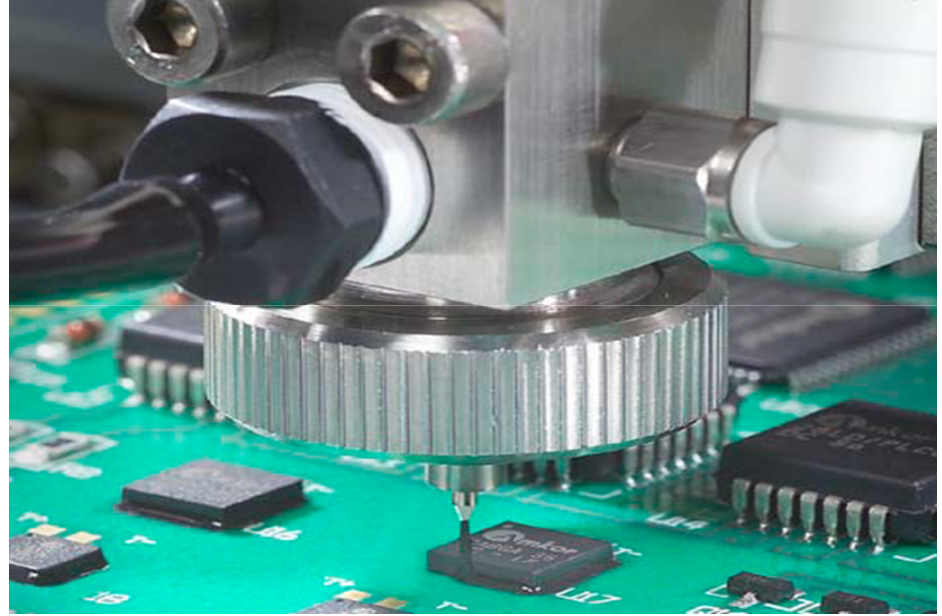


Common pump features

- ✓ low speeds from 1 to max. 400 rpm
- ✓ not more than 150 bar working pressure
- ✓ stainless steel housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 130 ° C
- ✓ flow rates between 0,1 – 4,0l/min

Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec
- ✓ ZPA



Internal pipe coating

Internal pipe coating

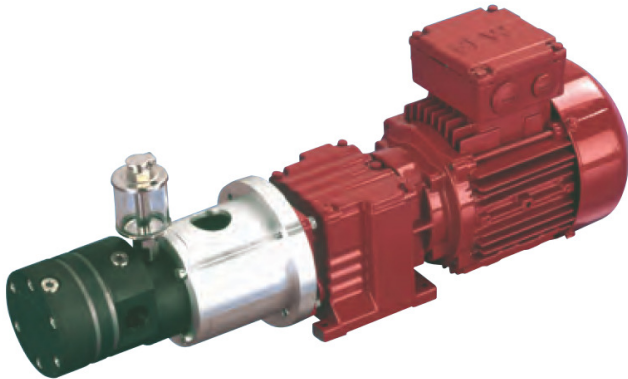


Common pump features

- ✓ low speeds from 250 to max. 600 rpm
- ✓ not more than 80 bar working pressure
- ✓ cast iron housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 130 ° C
- ✓ flow rates between 5 – 40l/min

Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



Propane gas compression

Propane gas compression



Common pump features

- ✓ high speeds from 1000 to max. 1800 rpm
- ✓ not more than 80 bar working pressure
- ✓ cast iron housing
- ✓ magnetic coupling
- ✓ fluid temperature between 20 to 130 ° C.
- ✓ high flow rates > 20l/min

Pump models

- ✓ ZPD
- ✓ ZPA

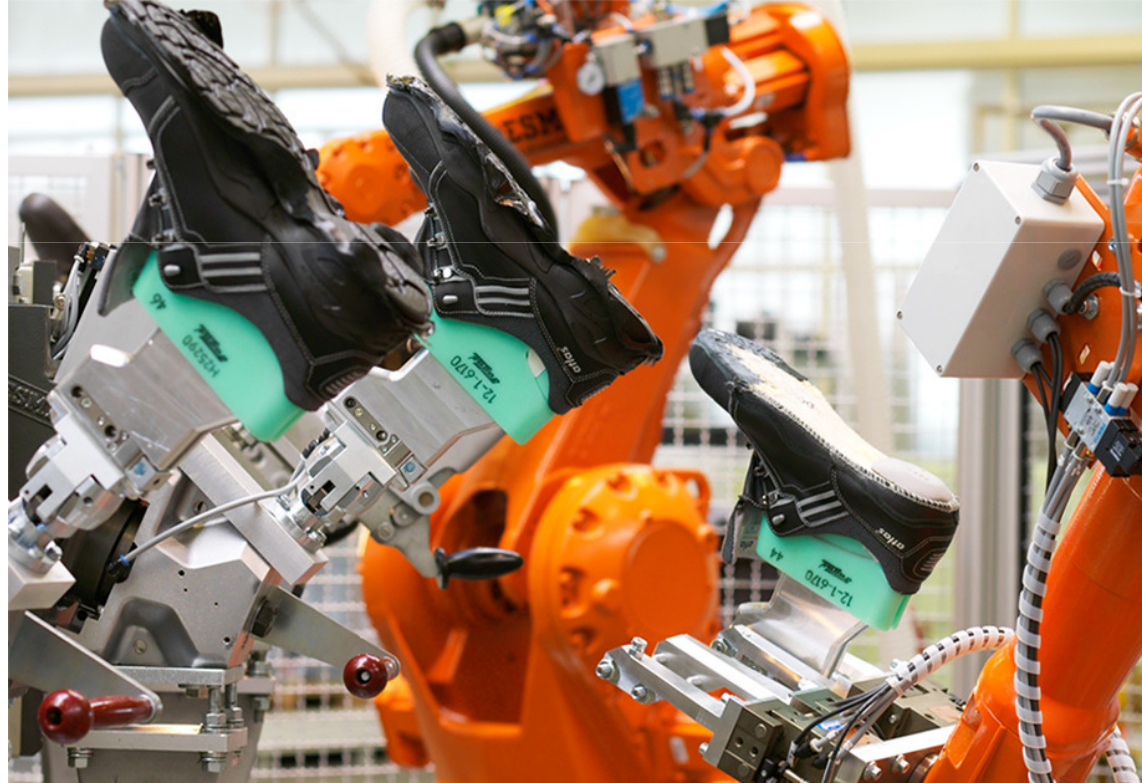


Shoe machinery

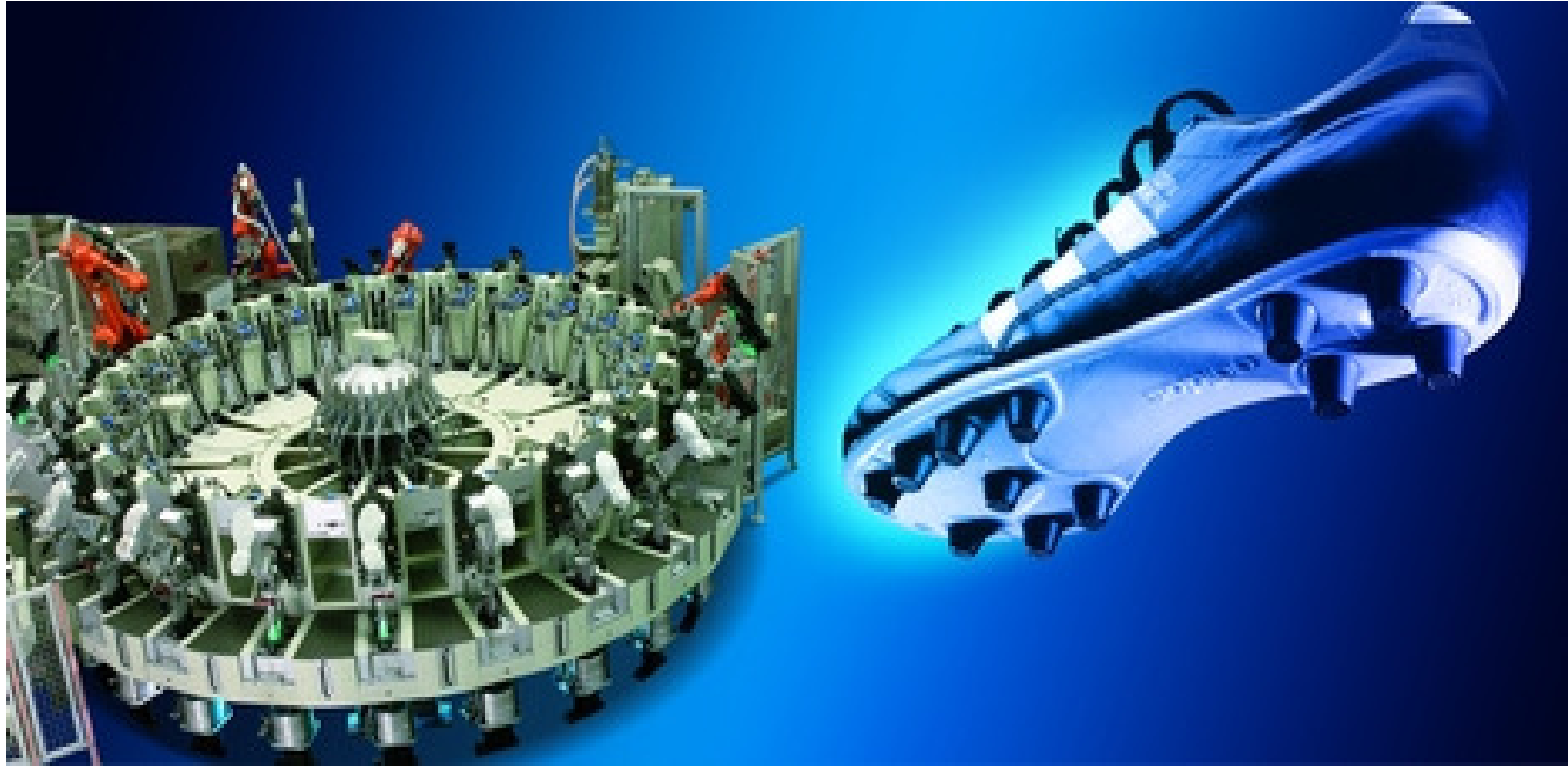
Shoe machinery



Shoe machinery



Shoe machinery

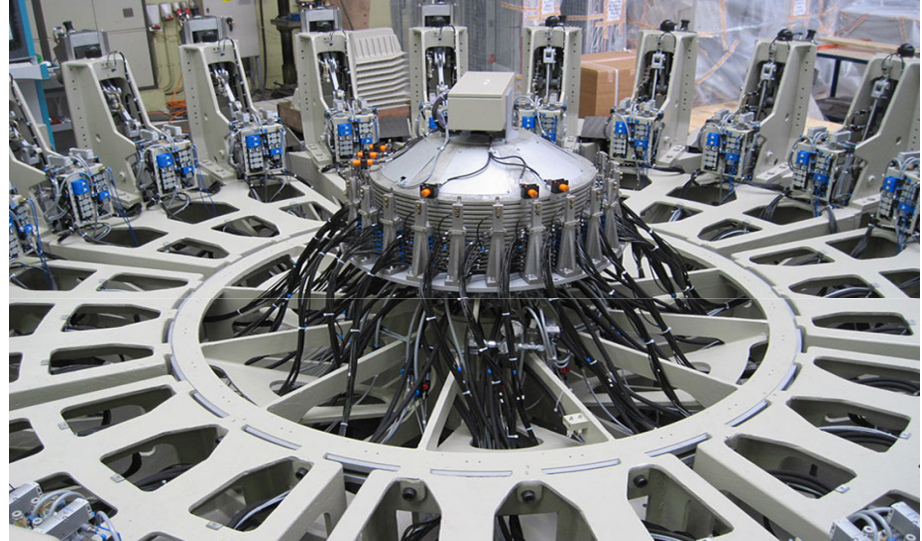
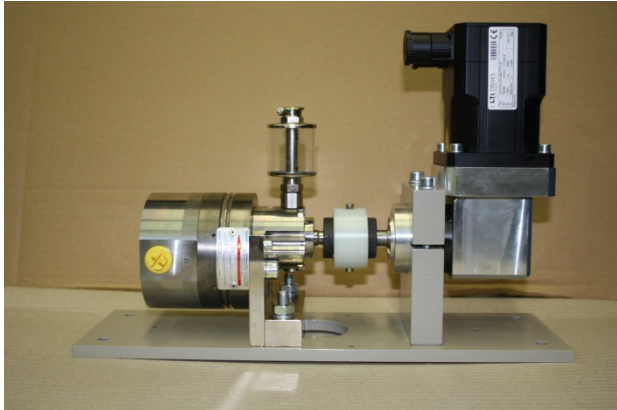


Common pump features

- ✓ low speeds from 50 to max. 250 rpm
- ✓ not more than 80 bar working pressure
- ✓ cast iron housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 130 ° C
- ✓ low flow rates between 0,1 – 2,0l/min

Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



Marine engines

Marine engines



Common pump features

- ✓ high speeds from 680 to max. 1450 rpm
- ✓ not more than 80 bar working pressure
- ✓ cast iron housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 130 ° C
- ✓ high flow rates between 50 – 300l/min

Pump models

✓ ZPA



Hot melt

Hot melt

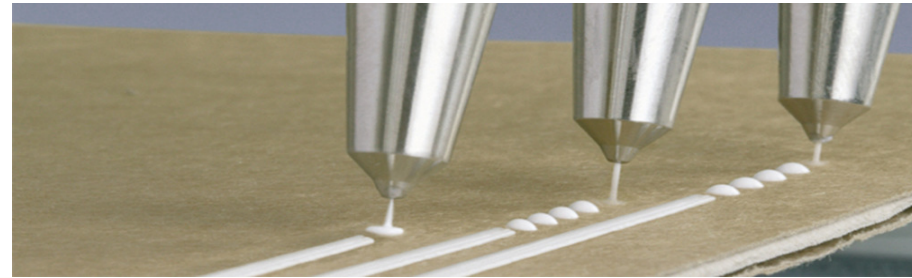


Common pump features

- ✓ low speeds from 100 to max. 600 rpm
- ✓ not more than 80 bar working pressure
- ✓ cast iron housing
- ✓ mechanical seal
- ✓ fluid temperature between 80 to 250 ° C
- ✓ low flow rates between 0,1 – 3,0l/min

Pump models

- ✓ ZPD
- ✓ ZPDA



Robotic dosing application

Robotic dosing application



Common pump features

- ✓ low speeds from 100 to max. 600 rpm
- ✓ not more than 100 bar working pressure
- ✓ cast iron housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 150 ° C
- ✓ low flow rates between 0,1 – 5,0l/min
- ✓ high inlet pressures > 80bar

Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



Robotic gluing application

Robotic gluing application in automotive industrie



Robotic gluing application 汽车白车身涂胶/粘接

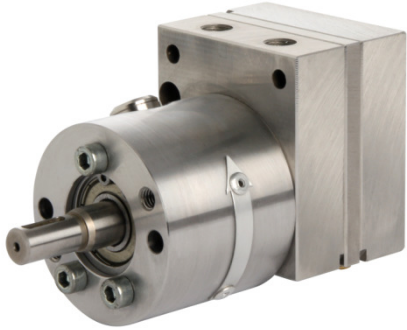


Common pump features

- ✓ low speeds from 10 to max. 400 rpm
- ✓ not more than 100 bar working pressure
- ✓ Stainless steel housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 150 ° C
- ✓ low flow rates between 0,1 – 5,0l/min
- ✓ high inlet pressures > 80bar

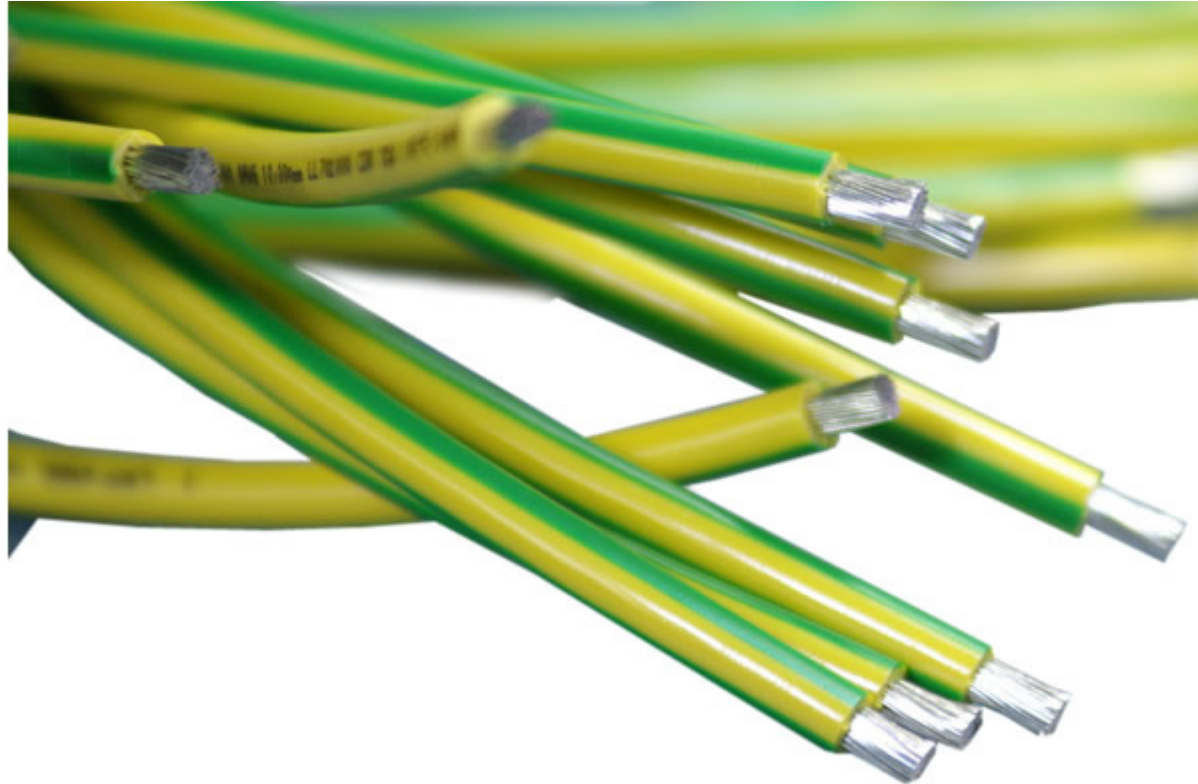
Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



Color coding - cables

Color coding - cables



Common pump features

- ✓ low speeds from 10 to max. 100 rpm
- ✓ not more than 100 bar working pressure
- ✓ Stainless steel housing
- ✓ mechanical seal
- ✓ fluid temperature between 20 to 50 ° C
- ✓ low flow rates between 0,01 – 0.5l/min
- ✓ low inlet pressures < 10bar

Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



Heat transfer oil – solar heat

Heat transfer oil – solar heat



Heat transfer oil – solar heat



Common pump features

- ✓ high speeds from 680 to max. 1450 rpm
- ✓ not more than 20 bar working pressure
- ✓ Cast iron housing
- ✓ Gland packing
- ✓ high fluid temperature between 200 to 350 ° C
- ✓ flow rates between 1 – 20l/min
- ✓ low inlet pressures < 10bar

Pump models

- ✓ ZPA
- ✓ ZPD



New products

