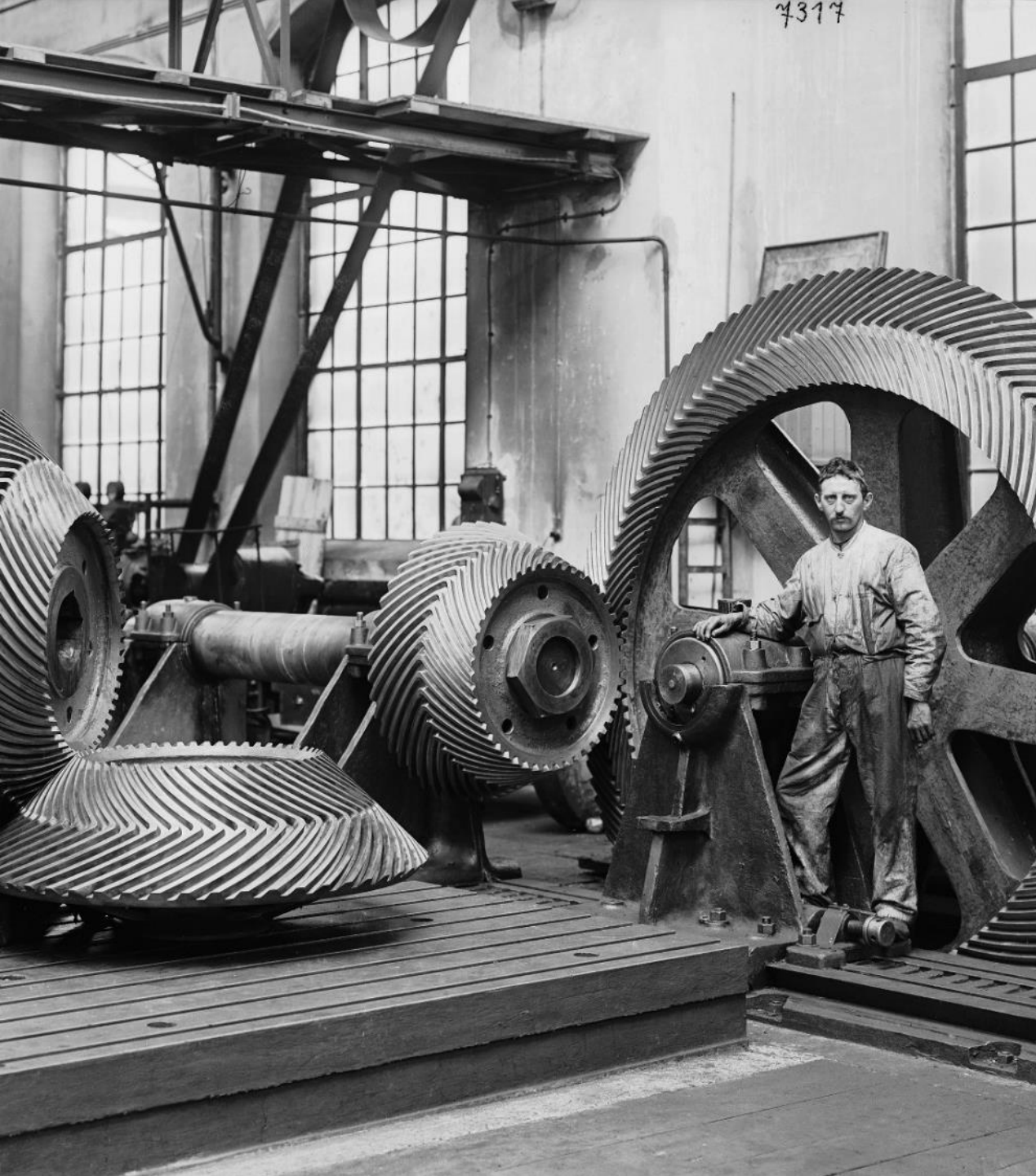


Wikov company presentation





WIKOV HISTORY

We celebrate 100 years of Wikov brand!

” On exactly 22 December 1918 the company *Prostějovské továrny na stroje Wichterle & Kovářik*, a joint-stock company, was founded. The Wikov brand was revived in 2004 by Martin Wichterle, when he renamed the newly acquired companies ČKD Hronov and Škoda Gear from Pilsen as Wikov MGI and Wikov Gear. This is how the modern history of the company began to be written.

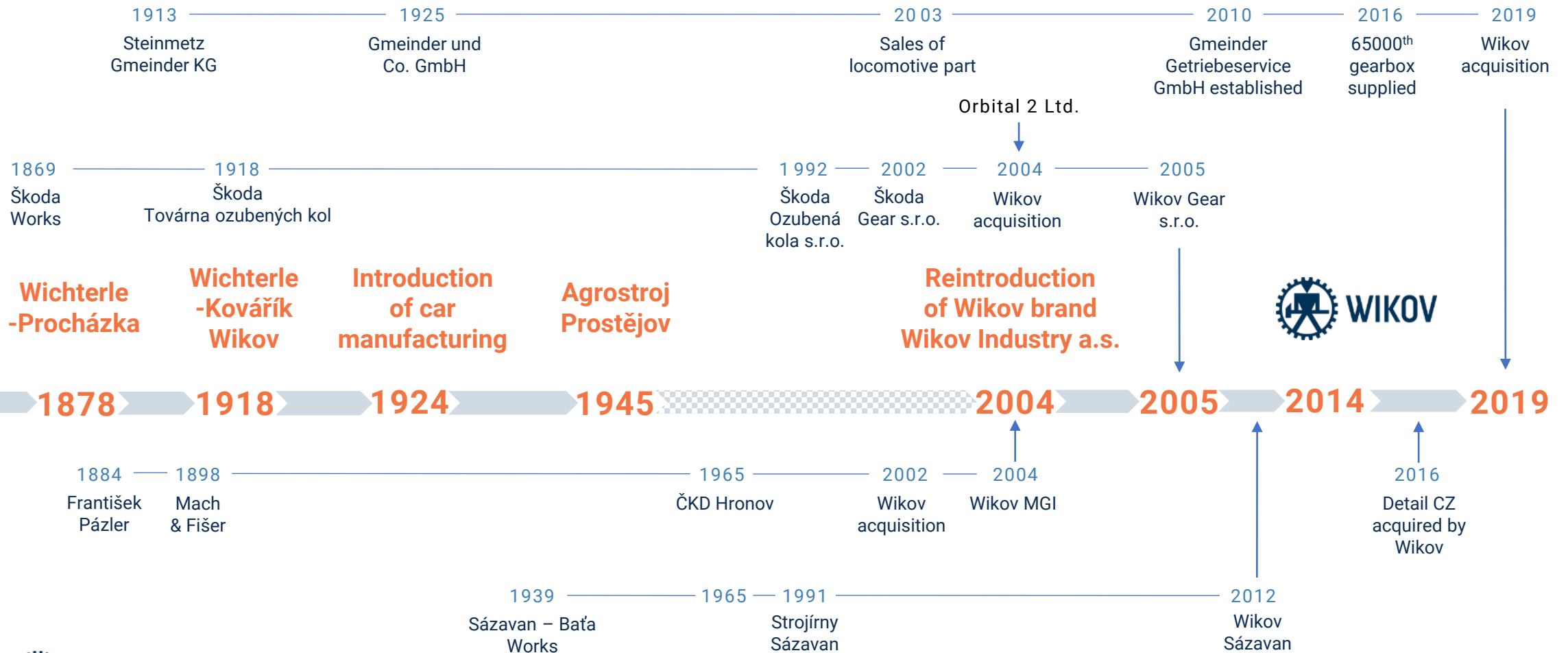


Martin Wichterle
Owner of Wikov Industry a.s.



WIKOV INDUSTRY

History of Wikov brand.



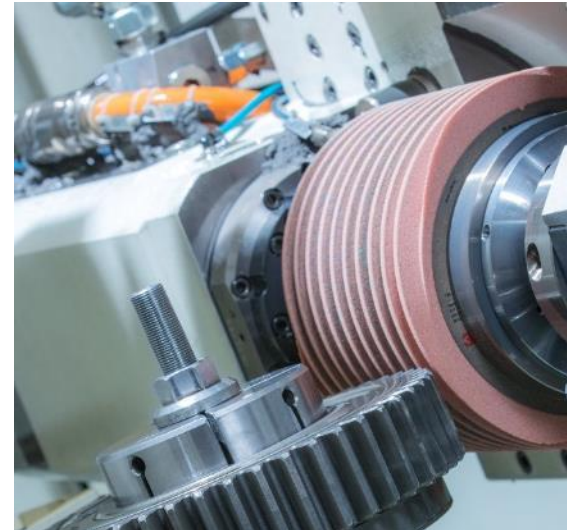
AT THE FIRST SIGHT

Independent
and **self-**
sufficient.



1000+

employees



6

manufacturing
plants



10+

industrial sectors

AT THE FIRST SIGHT

From single
gear to
complete
drive.



\$120

mil. USD
turnover



120 t

150 kg -120 tons
gearbox weight



2.8 m

profile ground
gears

AT THE FIRST SIGHT
Markets 2021

80+

countries

5

continents

81%

export

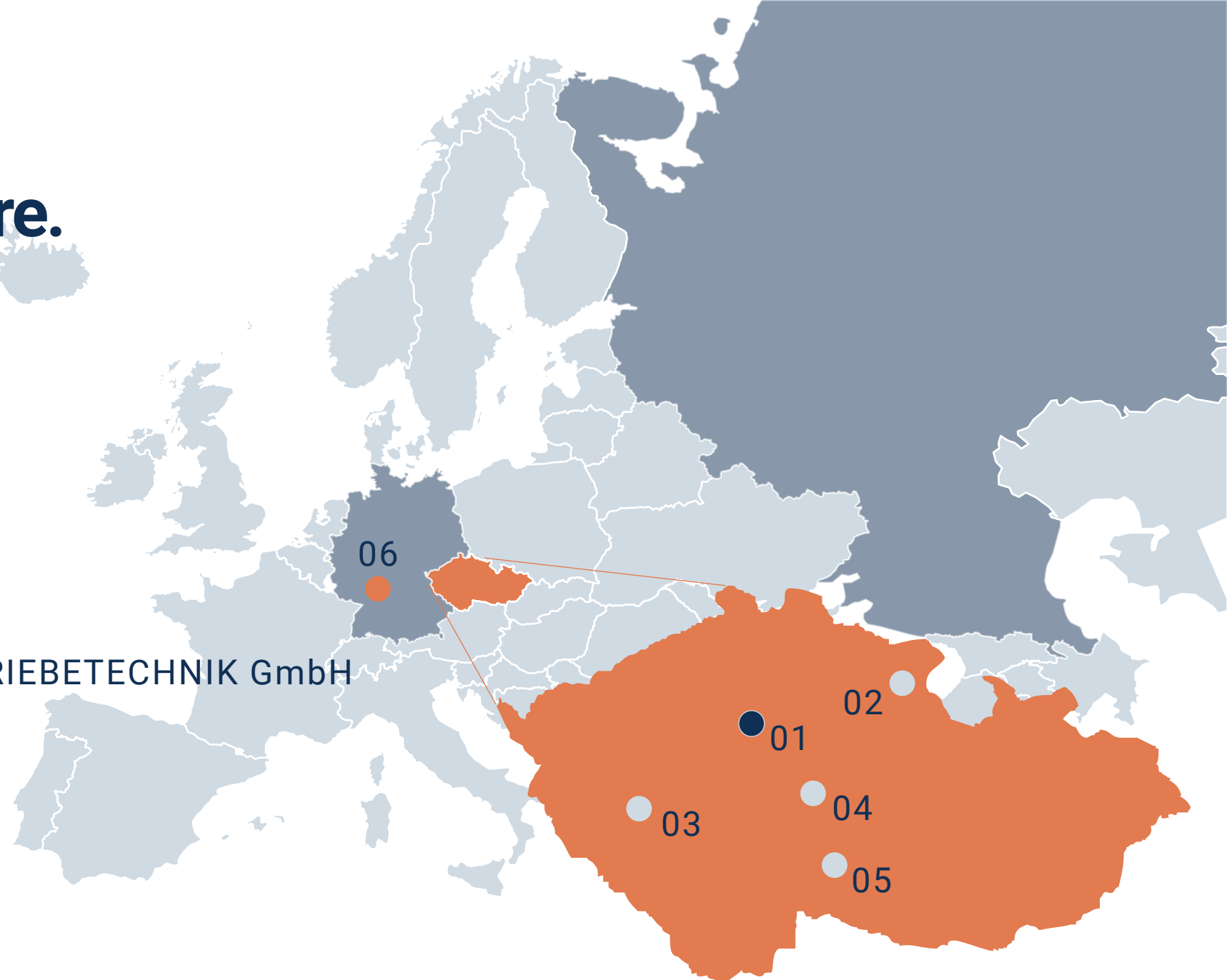
68%

**share of gearboxes
on total turnover**

WIKOV INDUSTRY

Company structure.

- 01 Wikov Industry a.s.
- 02 Wikov MGI a.s.
- 03 Wikov Gear s.r.o.
- 04 Wikov Sázavan s.r.o.
- 05 Detail CZ s.r.o.
- 06 GGT GMEINDER GETRIEBETECHNIK GmbH



COMPANY MOTTO

The essence of
engineering.

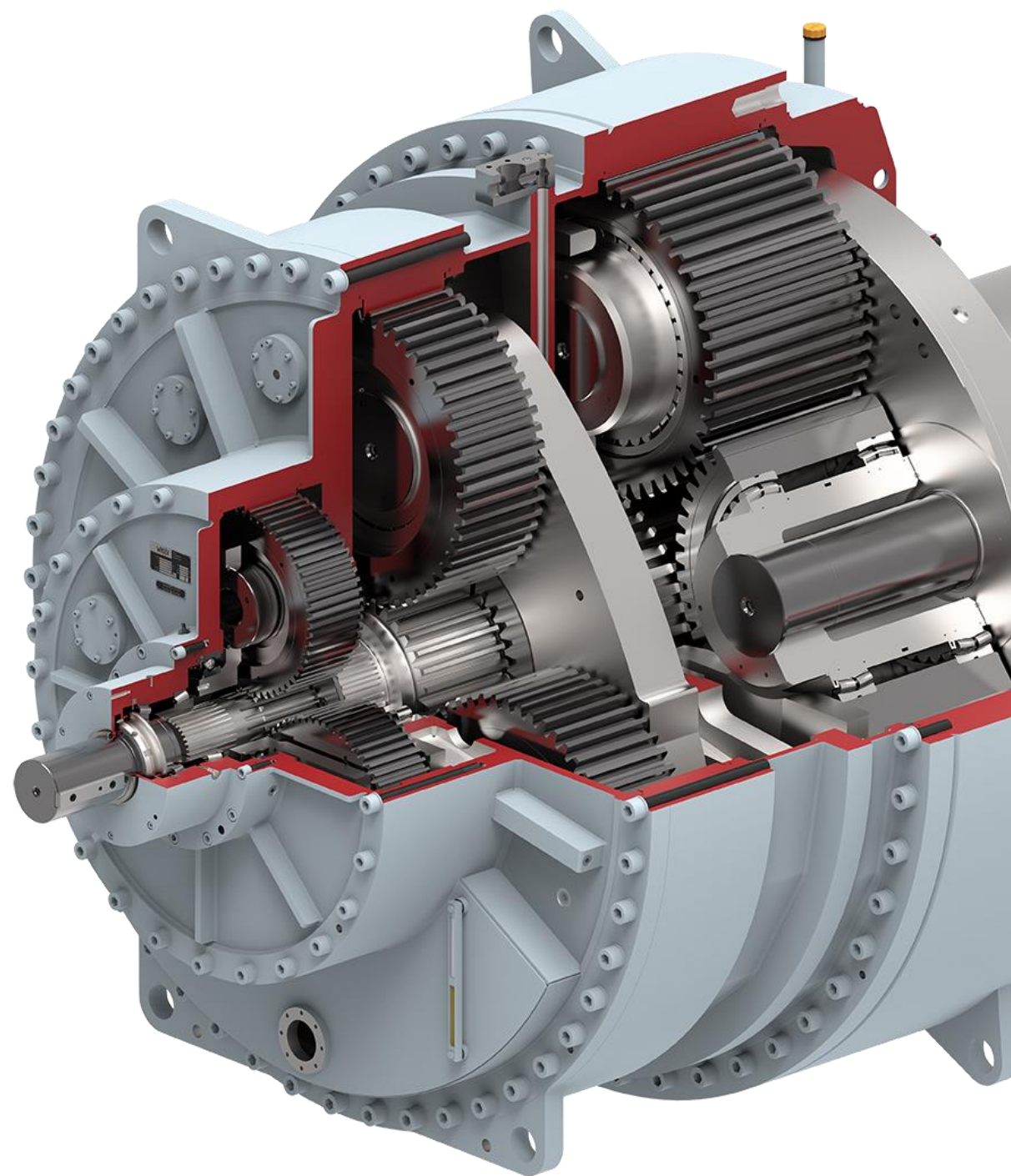


Quality

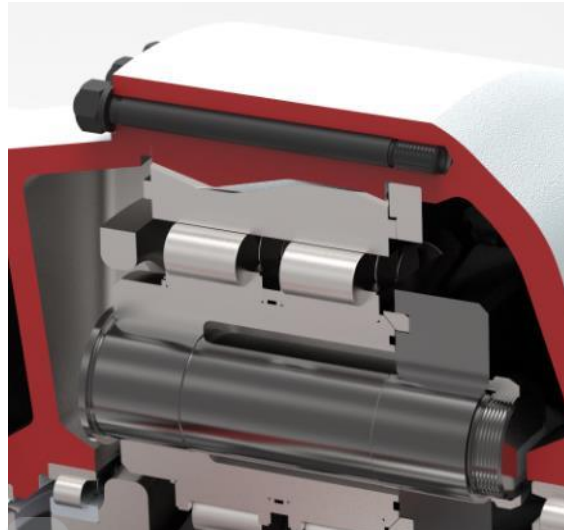
Service

R&D, Innovation

Manufacturing

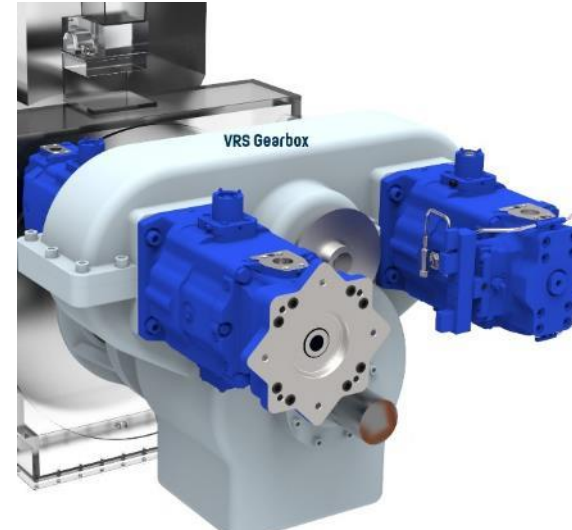


WIKOV R&D, Innovations.



Flexible pin

Patented technology of flexible pin increases lifetime of gears and bearings, reduces weight of gearboxes, protects against shock load resistant.



Variable Ratio Speed

System was originally developed for wind turbine application. VRS gearboxes are ideal also for tidal, hydro applications in the renewable power sector as well as other applications.

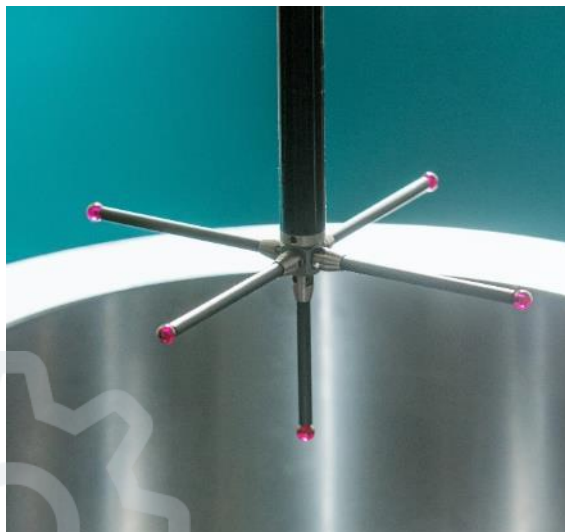


WiGuard®

WiGuard is our complete preventive and diagnostic tool protecting gearbox against fatal damages. Vibration, temperature, speed, pressure and other values are continuously monitored and processed.

WIKOV

Quality Management and Testing.



Quality Management

Chemical analysis, Tensile and Impact tests, Under-surface cracks detection, Surface cracks detection, Dimension CMM inspection, Teeth profile inspection, Post-grinding burned surface detection



Test Rooms

Load tests up to 8 MW of load, Cooling chamber for extremely cold conditions, Dynamic load test for rail vehicle gearboxes, High-speed gearbox test rig – 35.000 rpm



Certification

ISO 9001:2016
IRIS
Third Party Certification:
BV, DNV, LRS, GL, ABS, KR, RMR, CCS

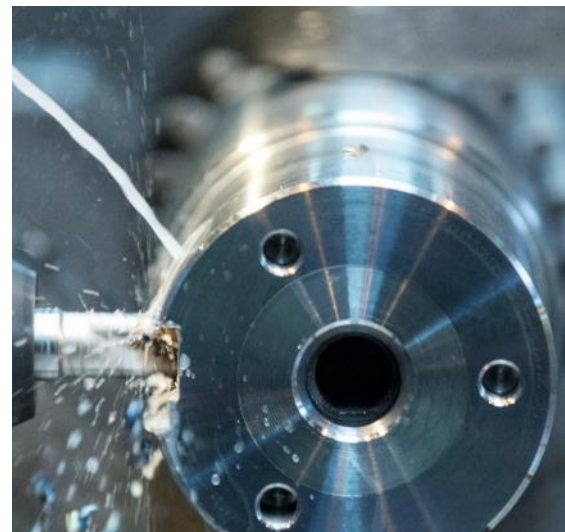
WIKOV

Manufacturing.



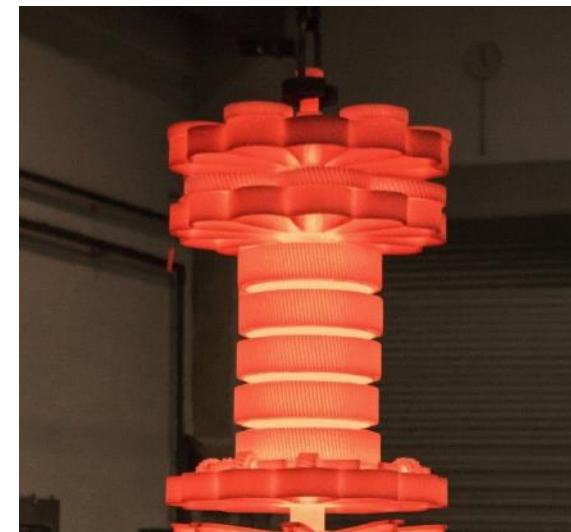
Gearing

Hobbed gears up to 3,5 m
Profile ground gears up to 2,8 m



Shafts, housings & rotating work- pieces

Shafts: up to Ø 0,9 m; length 3,8 m
Flanged parts: up to Ø 5 m
Housing parts: x/y/z 12/3,6/1,6 m



In-house heat treatment

Gas carburising
Quench hardening
Press quenching
Nitriding

SERVICE

Installation, repairs and maintenance.



Installation & Commissioning

By our service engineers for new, refurbished or upgraded gearbox from unpacking to start-up testing.

Onsite Repairs & Inspections

From visual inspection to successful repair during warranty period or afterwards.



Preventative Maintenance

Tailored to the specific needs in a maintenance program to ensure for extended life and stable performance of your gearbox.

Factory Overhauls & Upgrades

Refurbishing or upgrading your existing gearbox no matter what brand.



SERVICE

Drop-in, diagnostics & spare parts.

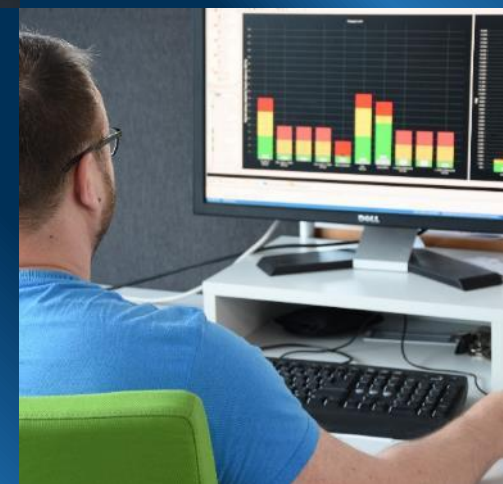


Drop-in

Replacement for existing gearboxes of any brand.

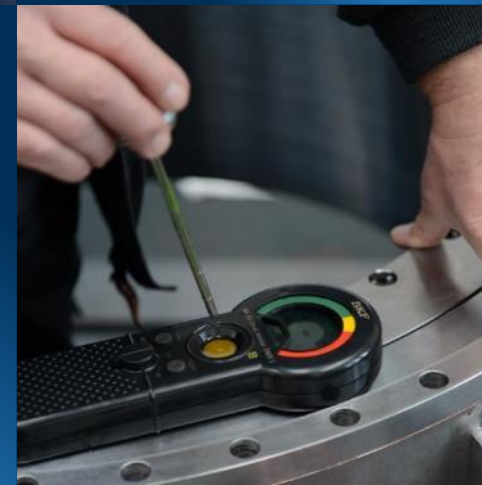
Remote Diagnostics - WiGuard®

Complete preventive and diagnostic tool protecting gearbox against fatal damages



Diagnostics Onsite

Conditions and performance analysis by our service team



Original Spare Parts

Precisely manufactured Wikov spare parts represent guarantee of smooth operation and long life of your gearbox.

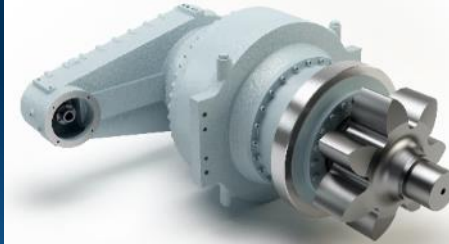


APPLICATIONS & PRODUCTS

Gearboxes according to application.

Oil & Gas

Gearboxes for upstream, midstream and downstream applications



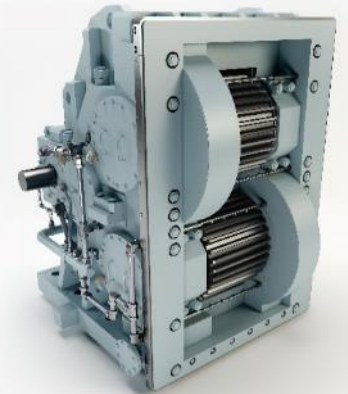
Rail Vehicles

Engineered drive solutions for rail vehicle industry



Cement

High performance drive solutions for cement and mineral processing industry



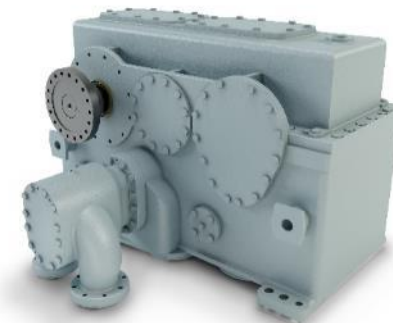
Mining

Gearboxes and gears for open pit and deep mine applications



Power Generation

Gearboxes for thermal power plants

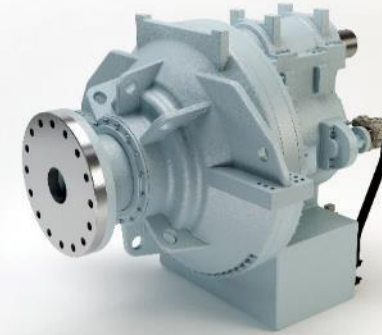


APPLICATIONS & PRODUCTS

Gearboxes according to application.

Hydro Power

Highly-efficient customized gearboxes for small hydro power plants



Turbo

Reliable drive solutions for high-speed applications



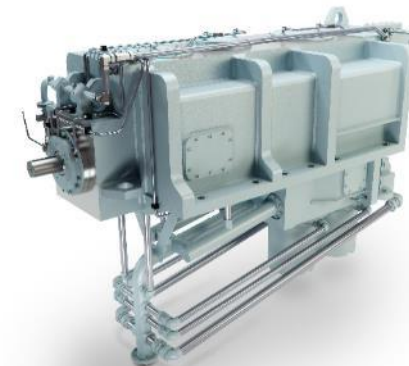
Rubber & Plastic

Engineered drive solutions for rubber & tire industry



Wind and Tidal Energy

Reliable, light weight flexible pin gearboxes for wind and tidal energy market



Steel Industry

Gearboxes for metallurgy industry – rolling mills, wire-drawing machines, foundry cranes, etc.

APPLICATIONS & PRODUCTS

Gearboxes according to application.

Marine and Shipbuilding

Customized gearboxes for river and marine vessels



Sugar Plants

Gearboxes for beet and cane sugar processing plants



Machine Tools

Gearboxes, gears and precision parts for machine tools



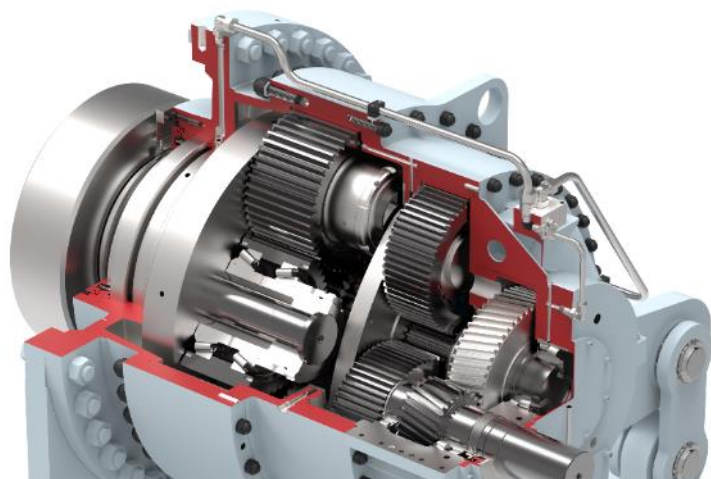
Recycling and Processing Plants

Gearboxes for recycling applications, food & feed processing industry, etc.



WIKOV

Catalogue products.



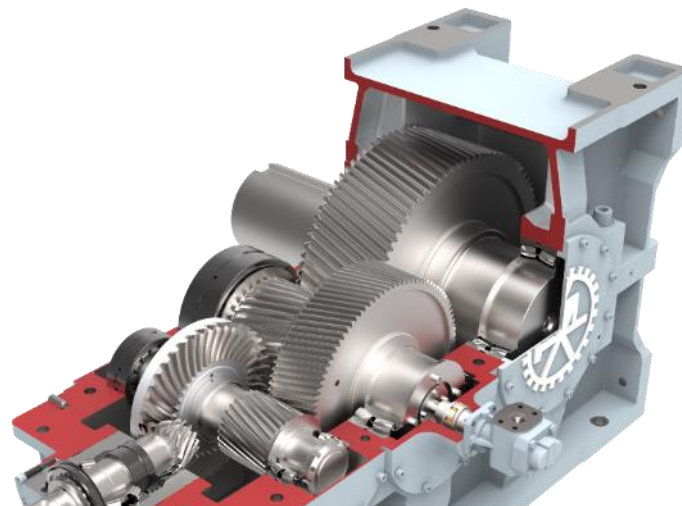
Orbi-flex®

Planetary gearbox series

28 ready-to make designs

Flexible pin technology inside

Application: operations with frequent shock loads



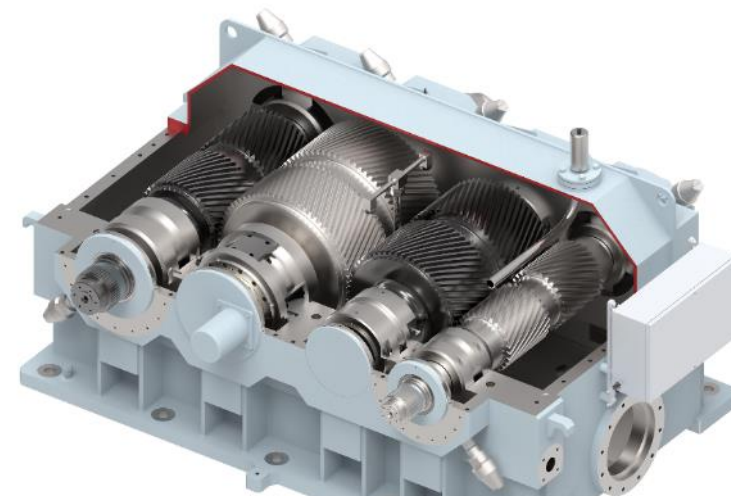
WinGear®

Helical and bevel-helical gearbox series

9 standardized sizes

Highly modular system

Available in various arrangements suitable for different industrial applications



High Speed Gearboxes

Turbo gearboxes in ready-to-make design

4 product lines each in **14 size** executions

Application: power generation, offshore industry, chemical industry

WWW.GEARBOXCONFIGURATOR.COM

New Gearbox configurator.



For planetary, helical and bevel-helical gearboxes.



Fast gearbox selection in three steps.

WIKOV Orbi-flex® Calculator

1. Gearbox type

Co-axial input Ratios: $i = 20 - 40$
 $i = 100 - 310$

Parallel shaft input Ratios: $i = 40 - 100$
 $i = 315 - 1000$

Bevel gear input Ratios: $i = 32.5 - 1500$

2. Input data

High speed shaft* 2300 RPM

Low speed shaft* 05 RPM

Gearbox ratio 460,00

☒ Motor power* 0 kW

☐ High speed torque* 0 kNm

☐ Low speed torque* 0 kNm

Industry Crushing & shredding

Driven machines choose

WIKOV Orbi-flex® Calculator

1. Gearbox type

Co-axial input Ratios: $i = 20 - 40$
 $i = 100 - 310$

Parallel shaft input Ratios: $i = 40 - 100$
 $i = 315 - 1000$

Bevel gear input Ratios: $i = 32.5 - 1500$

2. Input data

High speed shaft* 2300 RPM

Low speed shaft* 05 RPM

Gearbox ratio 460,00

Motor power* 0 kW

High speed torque* 0 kNm

Low speed torque* 0 kNm

Crushing & shredding

choose

Operating time ☐ < 3h ☐ 3-10 h ☐ > 10h

Factor KA* 0

Factor KB 21-40

3. Operating conditions

Angle 0°

Angle 0°

Required bearing life (h) 23

Mounting arrangement Torque linkage

High speed shaft design No preference

Low speed shaft design Male splined shaft

Preferred lubrication Splash with cooling

☐ Dusty environment

☐ Explosive environment

☐ Offshore environment

Climate Cold (from -30°C (-2°))

Elevation 1000 - 2000m above

WIKOV

Selected references.



ALSTOM

GustoMSC

TEREX
CORPORATION

LafargeHolcim



MAN
MAN Energy Solutions

STADLER

FLOWERVE

GENERAL ATOMICS

CEMEX

SIEMENS

KOBELCO

ŠKODA

KONGSBERG

FAM

HEIDELBERGCEMENT

TURBODEN
clean energy ahead

Howden

Wabtec
CORPORATION

HUSE

UNEX

CRH

DOOSAN

Cummins

WIKOV

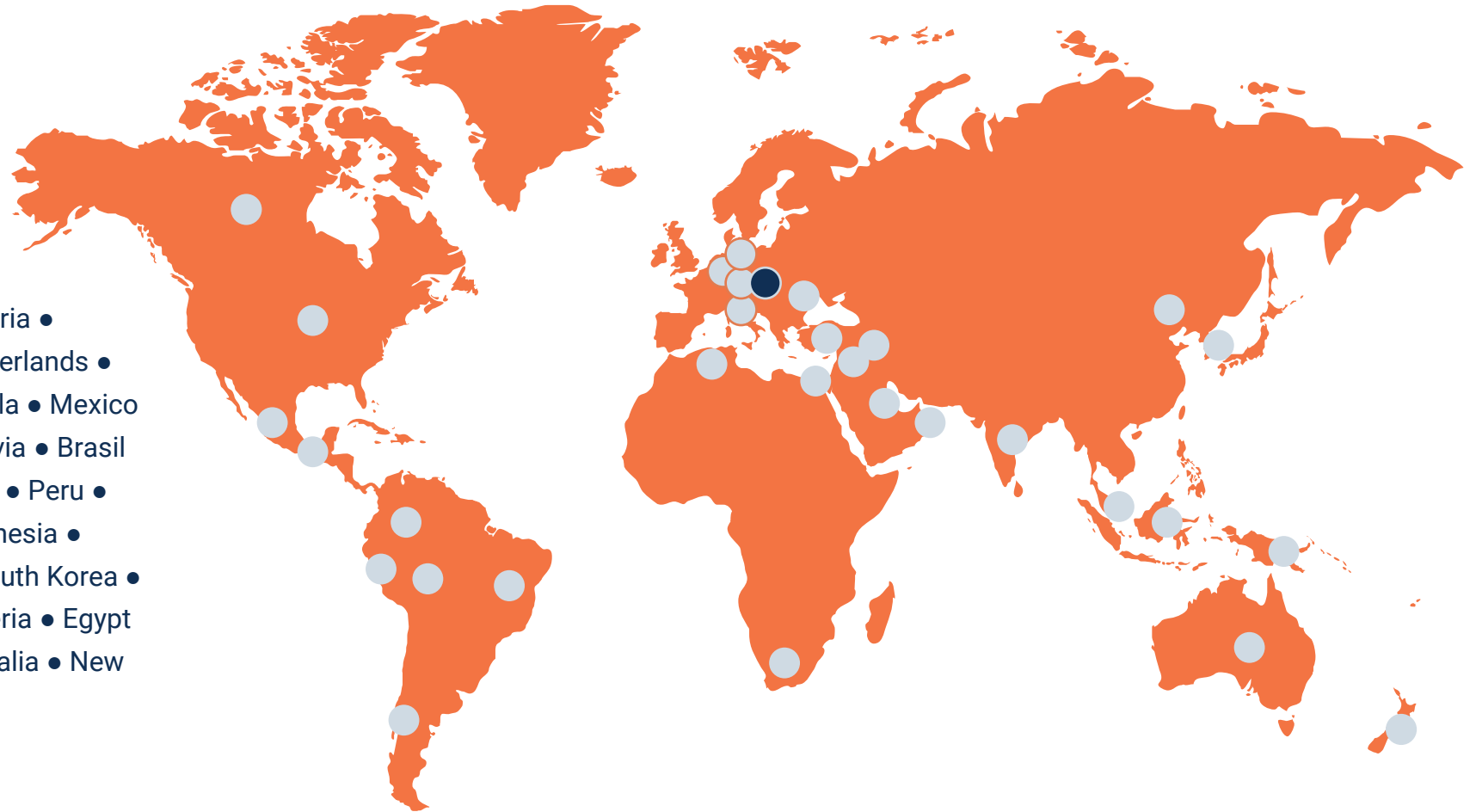
Selected references.



WIKOV

Global Sales Network.

Europe Czech Republic • Belgium • Bulgaria • Germany • Italy • Luxembourg • the Netherlands • Turkey
North America Canada • Guatemala • Mexico • U.S.A • South America Argentina • Bolivia • Brasil • Chile • Ecuador • Colombia • Paraguay • Peru • Uruguay • Venezuela • Asia China • Indonesia • Malaysia • Saudi Arabia • Singapore • South Korea • Turkey • United Arab Emirates
Africa Algeria • Egypt • Republic of South Africa
Australia Australia • New Zealand





Contacts



Wikov MGI a.s.

Zbečník 356
549 31 Hronov
Czech Republic
Tel.: +420 491 488 111
mgi@wikov.com



Wikov Gear s.r.o.

Tylova 1/57
316 00 Pilsen
Czech Republic
Tel.: +420 377 177 110
gear@wikov.com



Wikov Sázavan s.r.o.

Okružní 600
285 22 Zruč nad Sázavou
Czech Republic
Tel.: +420 327 533 302
sazavan@wikov.com