

Gearboxes for Iran

Latest projects by Wikov





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Wikov is Škoda and ČKD

BEFORE 2004



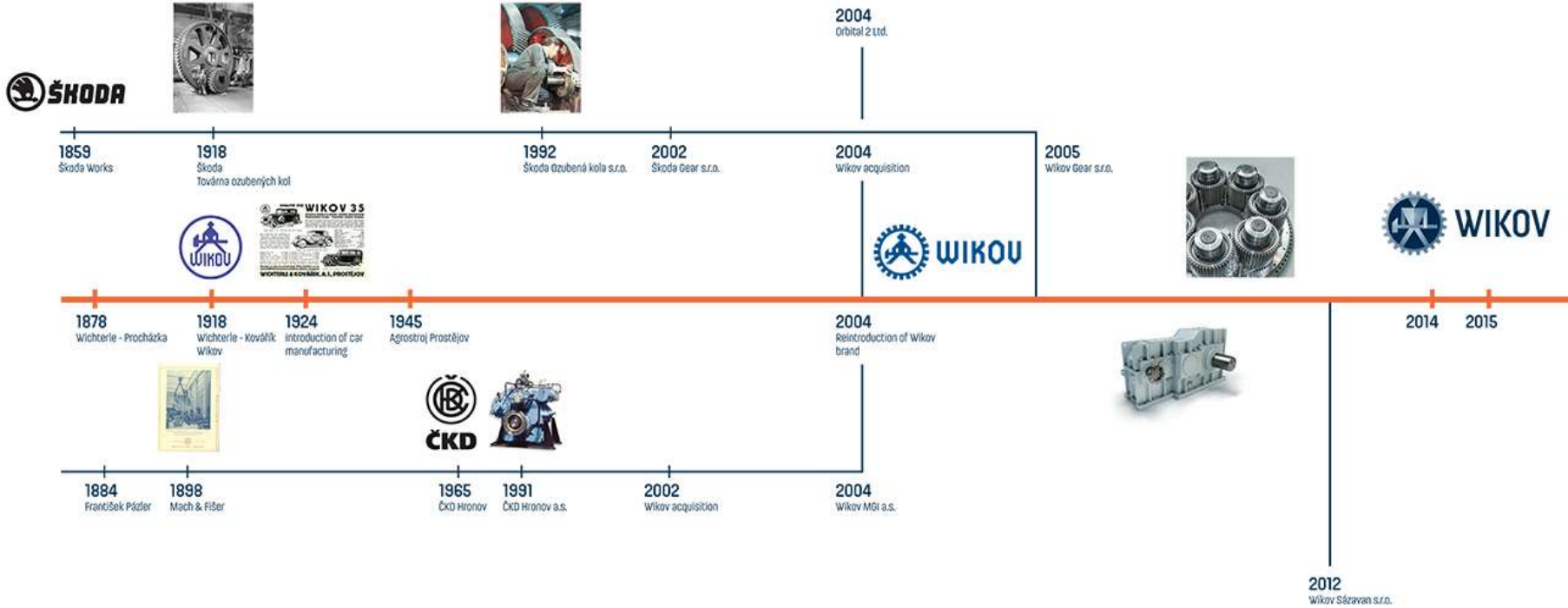
ŠKODA and ČKD installation base counting over 500 gearboxes in Iran

AFTER 2004





History of the Brand





Project for a thermal power plant in 2016

- 54 MW gas turbine load gearbox

Load Gearbox Type	RSB 660
Power	54.000 kW
Input speed	5.163 rpm
Output speed	3.000 rpm
Ratio	1,721



Mapna Group

power generation industry



High-speed gearbox of GE type with integrated pump

Gearbox Type	GE6B_M
Power	550 kW
Input speed	5.100 rpm
Output speed (shaft No. 2/ 3A/ 3B/ 4)	3.589 / 1.884 / 6.033 / 1.429 rpm
Ratio (No. 1/ 3A/ 3B)	1,421 / 1,9 / 1,681



High-speed parallel shaft gearbox of RSB type

Gearbox Type	RSB 250
Power	2.500 kW
Input speed	5.984 rpm
Output speed	16.755 rpm
Ratio	2,80



Mapna

Gas Turbine RSB 660 Load Gearbox Testing





Tehran Cement

cement industry



Project for a cement plant in 2016

- ZTB parallel shaft gearbox for a horizontal ball mill



Gearbox Type	ZTB
Power	2.400 kW
Input speed	990 rpm
Output speed	115 rpm
Ratio	8,61



Estahban Cement cement industry



Project for a cement plant

- 3 stage parallel shaft gearbox for a kiln drive

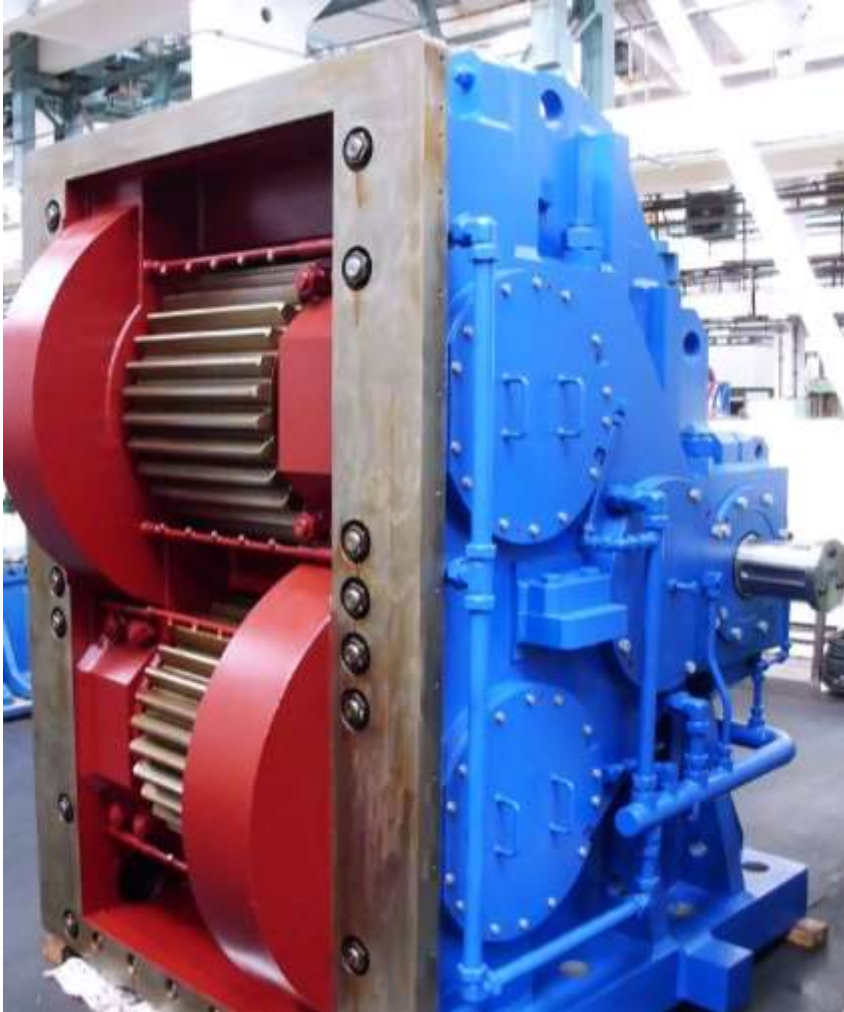


Gearbox Type	C3HX
Power	112 kW
Input speed	900 rpm
Output speed	22 rpm
Ratio	40,91



Gol-e-Gohar Mine mining industry

شرکت معدنی و صنعتی گل گهر (سهامی عام)
Golgohar Mining & Industrial Co.



Project for a mining industry

- Gol-e-Gohar Iron Ore pelletizing plant, Kerman Province
- 2 side drive gearboxes each of 4 MW power for iron ore ball mill

Gearbox Type	Side Drive (SD)
Power	2 x 4.000 kW
Input speed	990 rpm
Output speed	146 rpm
Ratio	6,78



Razi petrochemical industry



Project for a petrochemical industry

- parallel shaft high-speed gearbox for a synchronized gas compressor of the Shahpur Chemical Company
- replacement for MAAG gearbox



Gearbox Type	R1T 400
Power	18.070 kW
Input speed	4.815 rpm
Output speed	10.615 rpm
Ratio	2,205



Roshd Sanat Co. – Tarik Dam

small hydro power plant



Gearbox type	One-stage bevel gearbox - type KHVE
Power	1.500 kW
Output speed	750 rpm
Ratio	2,80
Kaplan turbine type	Bulb





Sudcco
spare parts

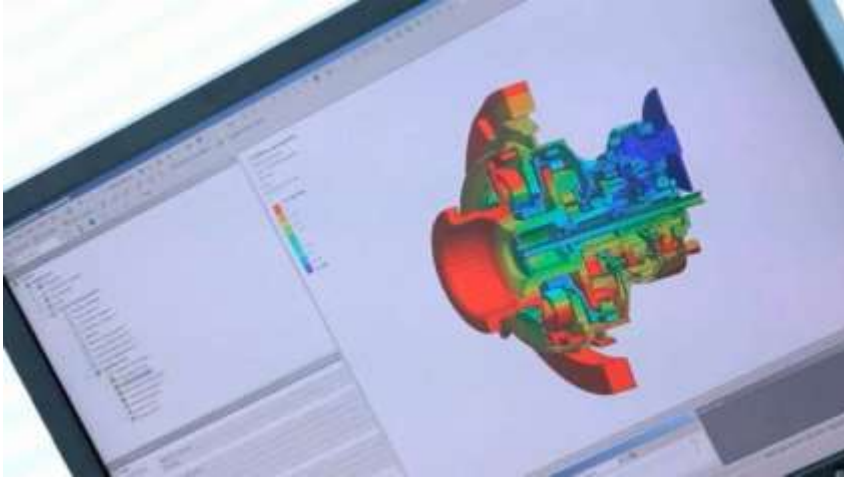


Variety of spare parts for sugar processing industry





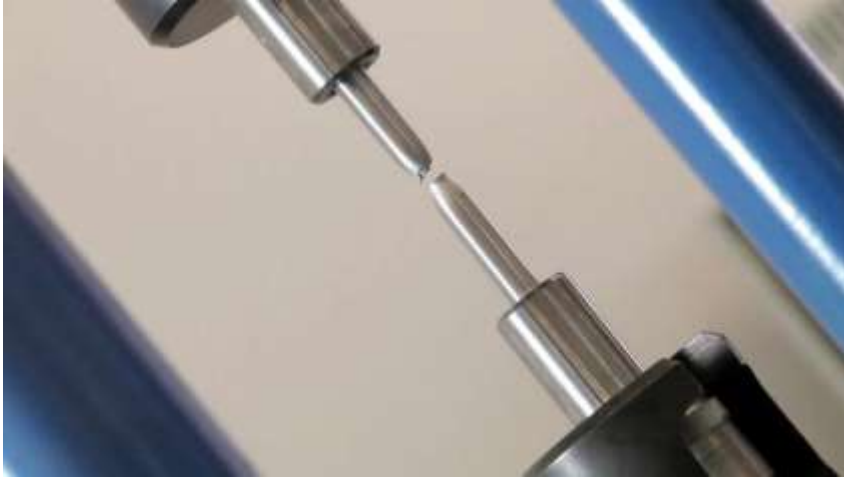
New Design and Reverse Engineering



- 3D software - **Solid Edge**
- Housing stiffness and tightness calculations by **FEM** (Finite Element Method)
- Gearing calculations according to:
 - ISO 6336
 - DIN 3990
 - AGMA 2001
 - API 613 5th Edition
- **KISSsoft** software for total calculations of gear units, gearing, shafts and bearings



Quality Management



ISO 9001:2008 certified
by **Bureau Veritas** and **Lloyd's Register**

Control methods:

- Chemical analysis – Spectrotest
- Mechanical properties – Tensile and Impact test
- External cracks – Magnetic test
- Dimensions measuring:
 - Wenzel 3020-40
 - Merlin 1100
- Gear geometry:
 - Klingelnberg P100
 - Klingelnberg P300



Testing labs



- 2 certified testing labs in our facilities in Hronov and Pilsen
- Hronov:
 - Load tests up to 8 MW
 - Cold climate condition test of gearboxes or complete drives in cooling chamber (-40°C)
- Pilsen:
 - dynamic testing lab for high-speed gearboxes up to 35.000 rpm
 - automatic test recording and camera monitoring
- Acceptance of Wikov gearboxes by independent certification bodies: BV, DNV, LRS, GL, ABS, KR, RMR, CCS



Group of Wikov

Global sales and service network

Europe

North
and Central America

Middle East

Africa

Asia Pacific and Australia





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