



SKB
DRIVE TECH



who we are

OEM

We manufacture drive axles and **drive transmissions** for the most demanding applications.

We cast grey and **nodular iron**.

We **repair and overhaul** transmission gearboxes of all makes and types – working in tramways and electrical multiple units.



100 years of experience in drive transmissions



1912

1946

1994

1998

2011

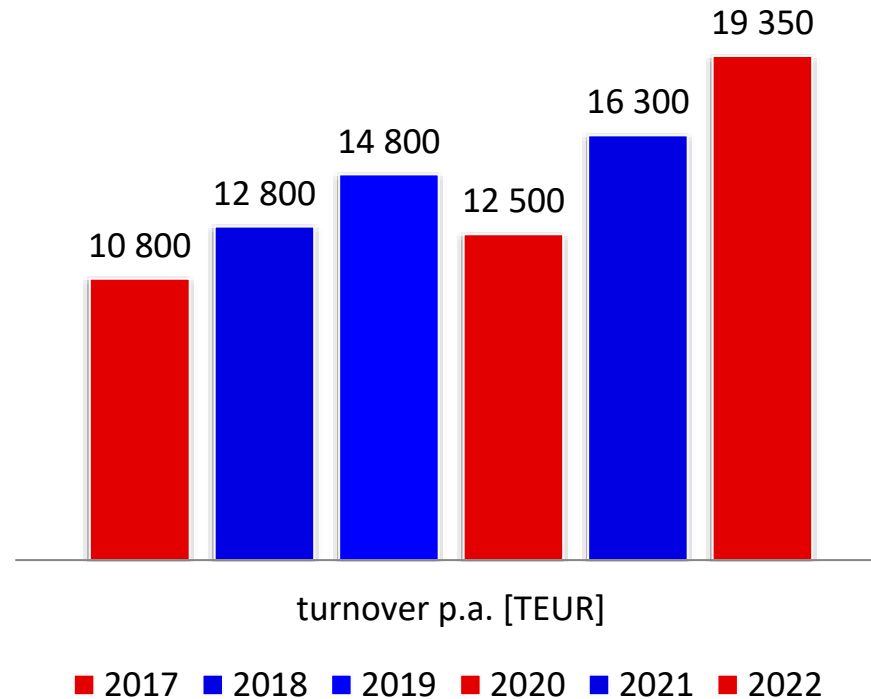
2015

2016

- 1912 – „Machines Factory and Iron Foundry” founded by Alfred Kryzel and Julian Wojakowski
- 1946 – Nationalization and renaming into Machines Factory Radomsko
- 1994 – Privatisation and renaming into Fabryka Osi Napędowych (FON)
- 1998 – takeover by Italian Carraro Drivotech SpA
- 2011 – FON-SKB – takeover by the SKB Group, Polish private equity
- **2015 – rebranding into SKB Drive Tech S.A.**
- 2016 – 23% of shares taken over by the Polish Development Fund (PFR)

our capacities

- turnover: ~ EUR 20M
- headcount: ~ 200 people
- shop floor area: ~ 30.000 sqm
- over 50 CNC machines
- 8'000 Mg p.a. iron castings
- assembly line
- wet painting line
- R&D
- developed QA departments





our capacities

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who we are



exports to 30 countries

- rolling stock
- mining vehicles
- military vehicles
- CNC machines
- construction machines
- agricultural machines
- marine & offshore

certifications

- ISO 9001
- ISO 14001
- AQAP 2120
- Military Products Licence
- Lloyd's Register Marine Certification
- DNV-GL Marine Certification
- IRIS (in progress)



one-stop-shop

- design
- manufacturing
- quality control
- **service**





iron foundry

foundry parameters

Automatic moulding line

Max. mould size [mm]:
2200×1400×550/550

Max. casting size [mm]:
2000×1200×900

Castings weight [kg]:
100 – 1500

Floor moulding line

Max. mould size [mm]:
3000×2000×2000

Max. casting size [mm]:
2800×1800×1800

Castings weight [kg]:
300 – 3000

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iron foundry

foundry key equipment

Induction furnaces, 2 x 3 tons, variable frequency (250-500 Hz)

Wire method spheroidisation, automated wire feed system

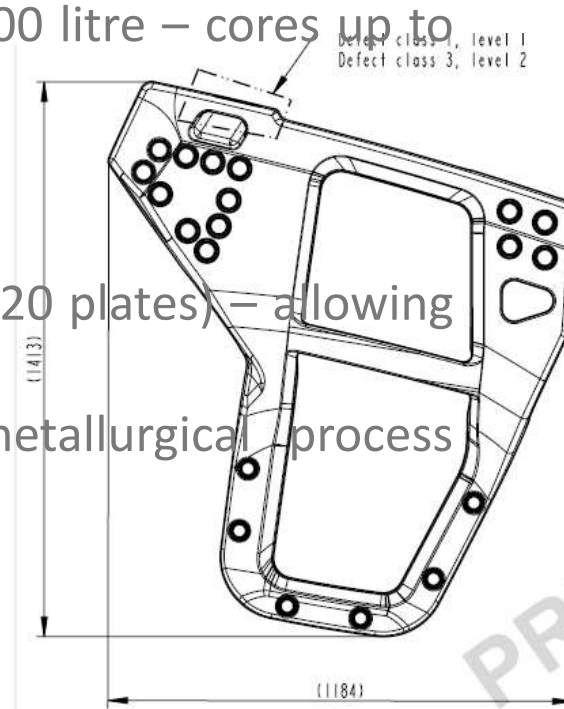
Cold-box core shooters with capacity of 40 and 100 litre – cores up to 2000mm and up to 320kg

Automatic sand mixer with self-study function

Automatic mould closing unit

Pouring and cooling stand of 80 plates (4 lines of 20 plates) – allowing to diversify the cooling time from 2 up to 48 hours

ProCast simulation software, ATAS MetStar metallurgical process control system



60

iron foundry

foundry key accounts

BOMBARDIER
TRANSPORTATION



ALSTOM
• mobility by nature •




Husqvarna®



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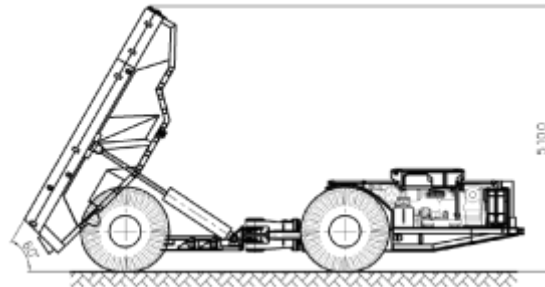
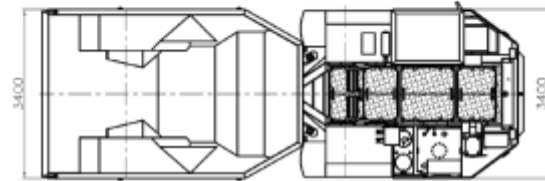
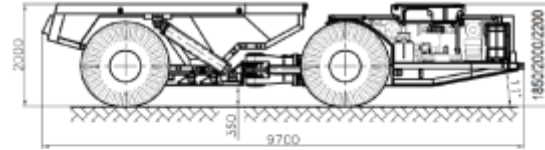
iron foundry



drive axles & transmissions

key accounts – drive axles

KGHM ZANAM



key accounts – wheeled vehicles transmissions



 **TEREX** | TRUCKS
A DIVISION OF VOLVO CONSTRUCTION EQUIPMENT



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who we are

key accounts – electric buses drive axle

E-DRIVE₂₆₀

DATA SHEET

VEHICLE TYPE	city bus
APPLICATION	two axis type, three axis type (articulated)
TYPE	low floor bus
DRIVE	each wheel driven, electronic differential
AXLE LOAD	13 000 kg
AXLE WEIGHT	1 100 kg
SUPPORTED SYSTEMS	ABS, Tachometer
RIM SIZE	22,5"x8,25"
TIRE SIZE	275/70R22,5
EFFICIENCY	up to 96%
VOLTAGE RANGE	up to 800 Vdc
NOMINAL VOLTAGE	650 Vdc
BATTERY CURRENT	up to 250 A
NOMINAL POWER	260 KW
NOMINAL TORQUE	22 500 Nm
WHEEL RPM	up to 550 rpm
COOLING	water/glycol 50/50

Available with inverters only or with full control logic equipment.

A cutting edge technology of permanent magnets used in axial flux motors results with **astonishing axle performance**.

Thanks to close cooperation with our business partners, we were able to achieve **drivetrain efficiency of over 96%**.

Respecting the market needs, our product was developed in close cooperation with buses producers with **client oriented attitude**.



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who we are



transmission gearboxes overhauls



Dresden
Mot
Pfeilary
Viergerade
Zulassung

rolling stock business

- over 1'200 transmission gearboxes overhauled over last 4 years;
- ca. 650 pcs for EMU's
- ca. 550 pcs for tramways
- **authorised representative of VEM Sachsenwerk GmbH**



autoryzowany partner

VEM Sachsenwerk GmbH · Pilsner Landstraße 178 · 01257 Dresden

AUTHORISATION LETTER

VEM Sachsenwerk GmbH is an international active, independent, German supplier of motors and generators up to a power range of 42 MW as well as drive systems.

With more than 100 years of tradition, we rank to the leading manufacturers of high efficient universal, as well as special designed synchronous and asynchronous machines within the range of low- and medium-voltage.

We intend to strengthen our presence in world market and to continually enlarge our business in the field of special, system engineered drives. Therefore, a customer-oriented continuous acquisition is required.

In consequence thereof, we also have concluded a co-operation-agreement with

SKB Drive Tech SA

ul. Miła 2

00-180 Warszawa

to get a closer contact with the market for traction motors in the territory of Poland

Herewith we confirm that the company SKB Drive Tech S.A. is authorised to act in our name, to make business contacts for VEM, to receive enquiries, further project information and to perform main overhaul of traction motors.

Dresden 05/September/2020


Dr. Torsten Kuntze
Managing Director


Thomas Richter
Factory Manager

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overhauls

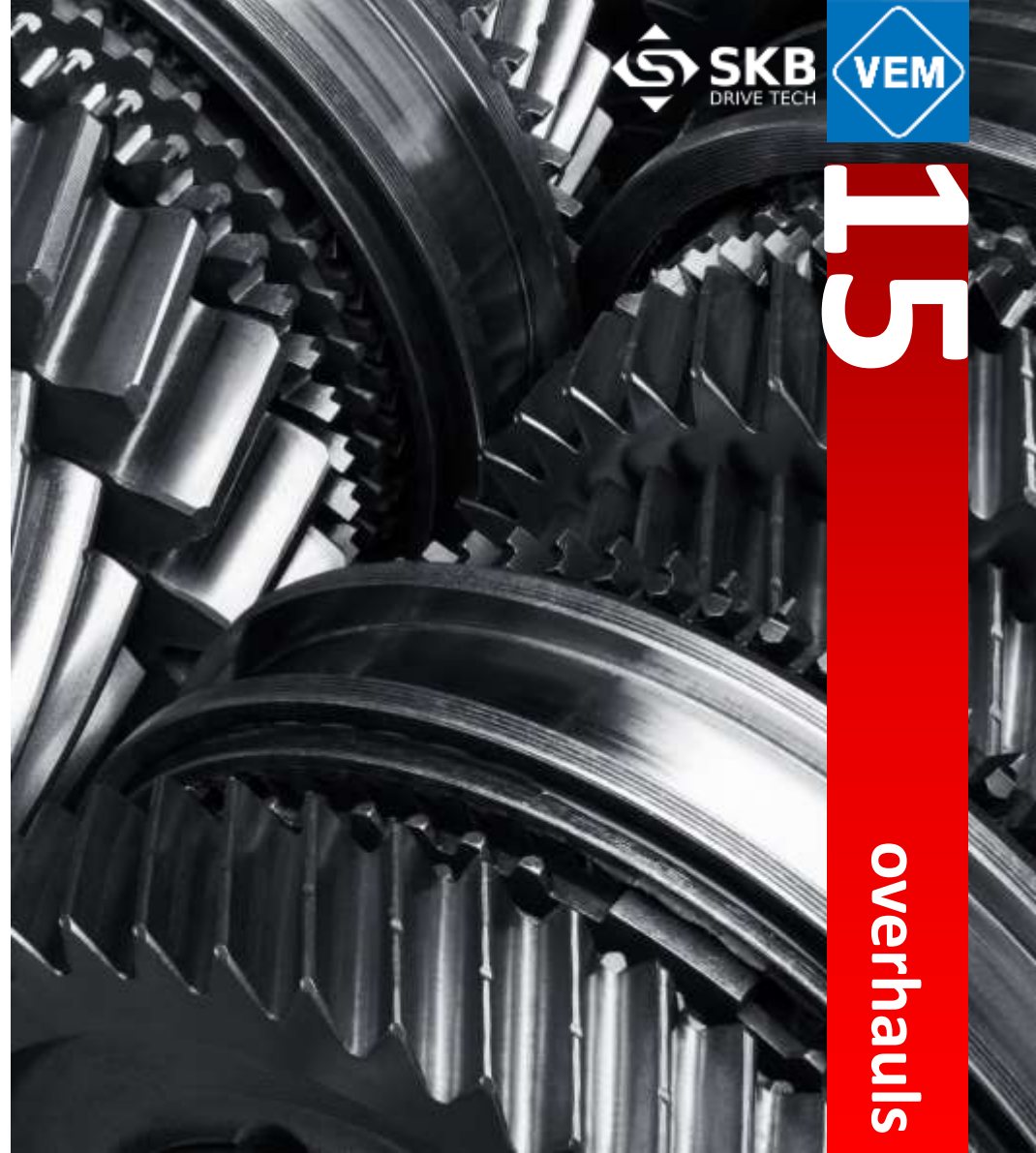
rolling stock business

We overhaul:

- GMEINDER GETRIEBE GGT 275, GGT 292, GGT 292 EOY/589
- WIKOV AWHC 495Z, AWHC 500Z
- VOITH SZH's
- VOITH KSH 212, KSH 217
- SIEMENS / FLENDER
- TATRA

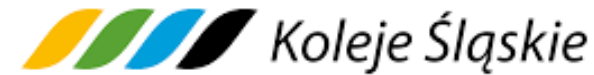
Drivetrains overhauls

with motors of all makes and types



rolling stock business – our customers

- PESA Bydgoszcz S.A.
- NEWAG S.A.
- ZNTK Mińsk Mazowiecki
- Koleje Mazowieckie
- Koleje Śląskie
- Koleje Dolnośląskie
- Koleje Wielkopolskie
- SKM Warszawa
- SKM Trójmiasto
- WKD Warszawa



rolling stock business – our customers

- Tramwaje Warszawskie
- MPK Poznań
- Tramwaje Szczecińskie
- MPK Łódź
- MPK Wrocław



Tramwaje
Szczecińskie



MPK-Łódź





defence

military sales licence + worldwide experience

We hold the military production & sales licence No. **B – 038/2014**.

We have developed many different products for many different defence customers **worldwide** – e.g. USA, UAE, Ukraine, France, Singapore.

We are a **tailor-made solutions** supplier – working both on our own design products as well as implementing customers' documentation.



military projects – CTIS for **ROSOMAK HARDUN**



military projects – 4x4 axles for **JELCZ 442.32**

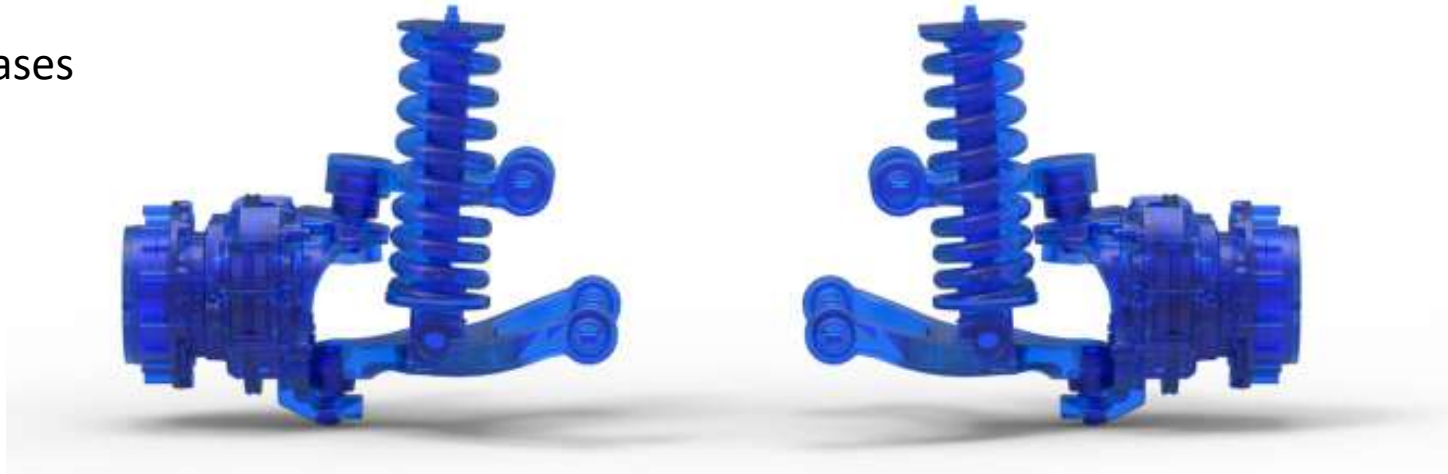


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defence

military projects – independent suspension

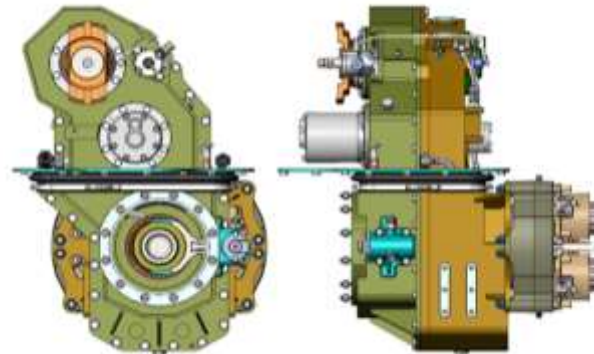
- 4x4 independent suspension
- 6x6 independent suspension
- 8x8 independent suspension
- load of 5 up to 17 tons
- transer cases



military projects – axles & final drives for **ONCILLA**



military projects – 8x8 infantry carrier **transfer case**



SKB Drive Tech S.A.
Rondo ONZ 1
00-124 Warszawa

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97-500 Radomsko

www.skbdrivetech.pl

<https://www.youtube.com/watch?v=SHohHhUoGWk>



looking forward to hearing from you