

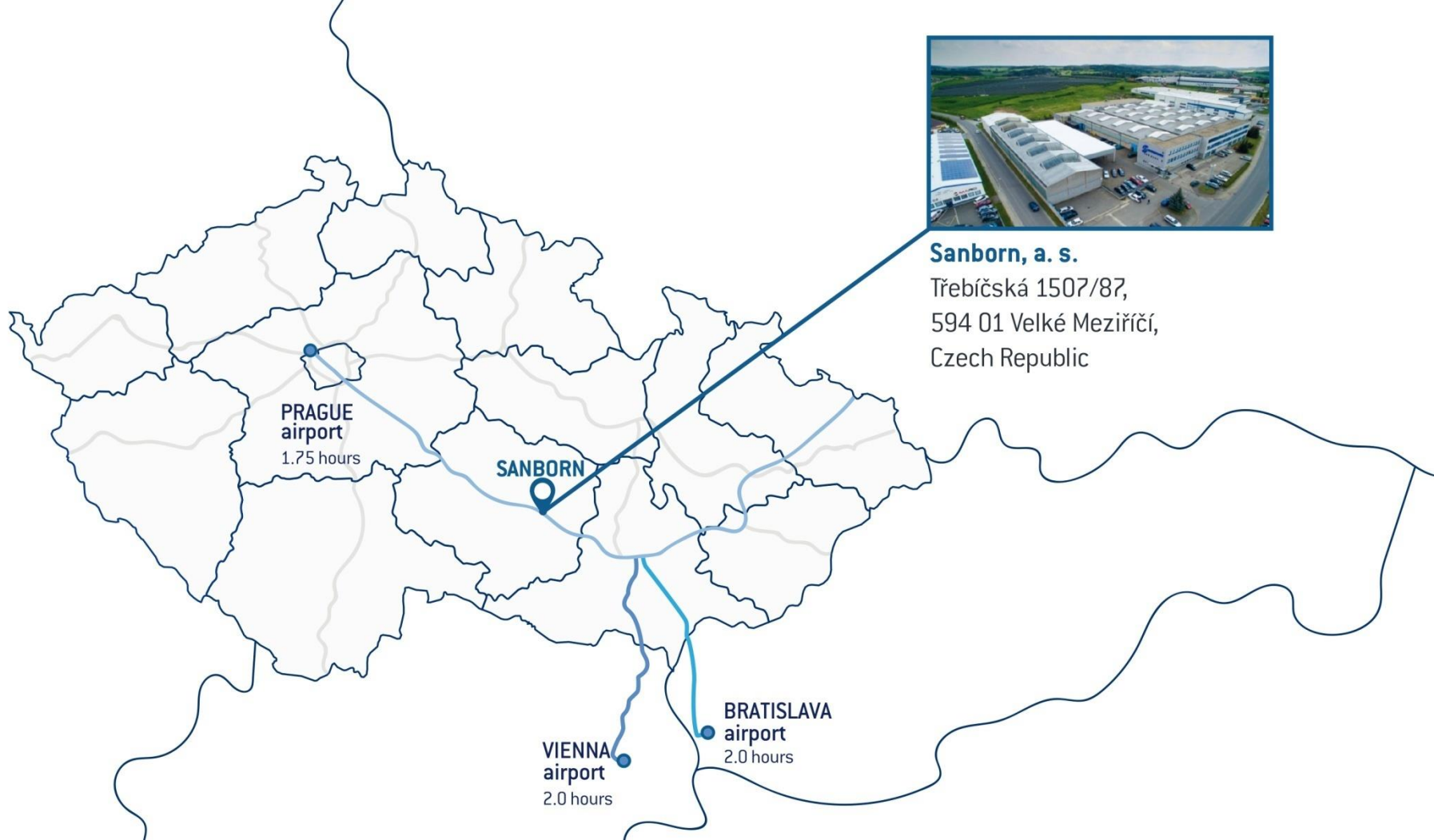


CUSTOMER NAME



Sanborn, a. s.

Třebíčská 1507/87,
594 01 Velké Meziříčí,
Czech Republic



ABOUT US

One of the leading manufacturer of parts for equipment in the Energy,
Oil & Gas and Transportation industries



Machining shop in
the Czech republic



Specialty parts
producer



Production according to
customer requirements



Machining of steel alloys
and nickel alloys

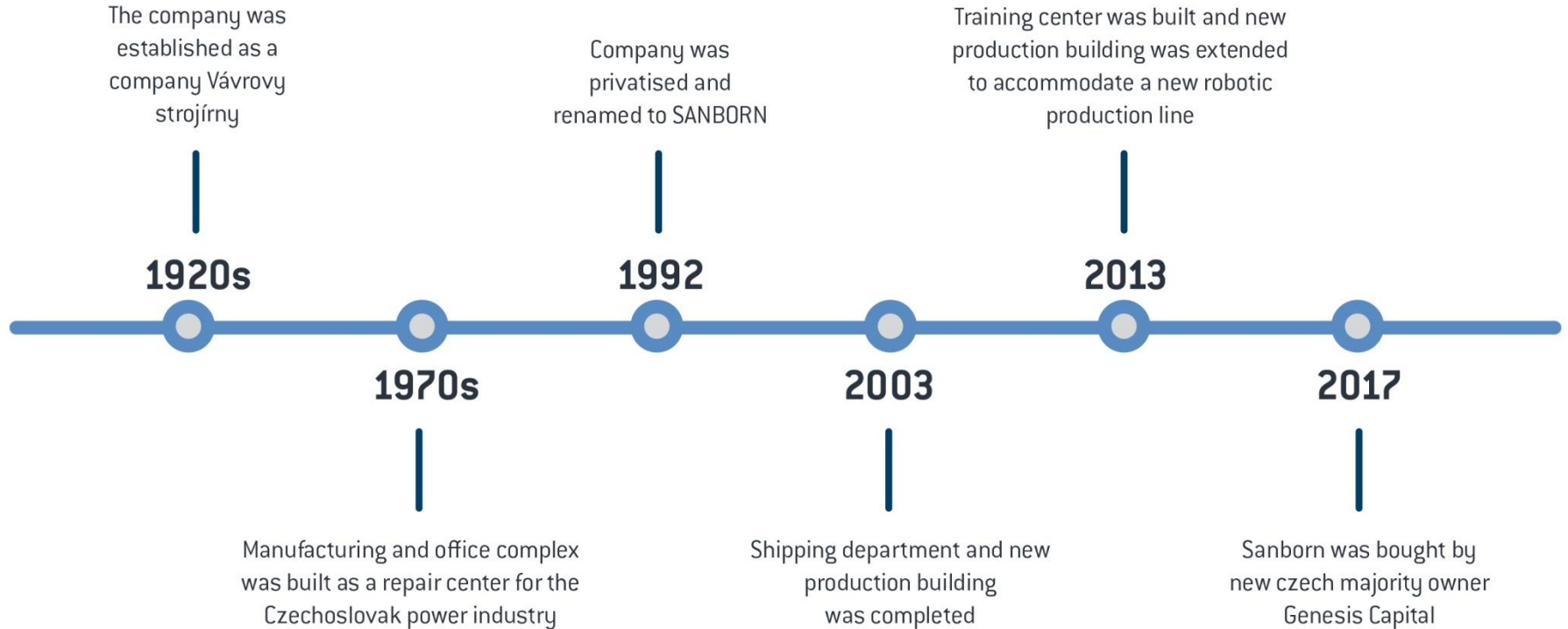


Production of
specialty fasteners



Worldwide
deliveries

HISTORY



SANBORN IN NUMBERS

100

years of machining
experience

200

employees

1 100

tons of material
in stock

5 100

different parts
yearly

460 000

delivered pieces
yearly

16 mil.

€ sales

WHY SANBORN?

1.

Qualified and experienced staff

100 years of knowledge and experiences in machining

2.

Comprehensive quality assurance

fully equipped measurement department and NDT in house

3.

State of the art technology

we invest every year into new technologies

4.

From single piece to serial production

production batches from 1 piece to 1000's of pieces

5.

Flexible and quick deliveries

intelligent production planning and material stock

6.

Customer references

we supply the biggest OEM producers in the world

FIELDS OF ACTIVITIES AND PRODUCTS



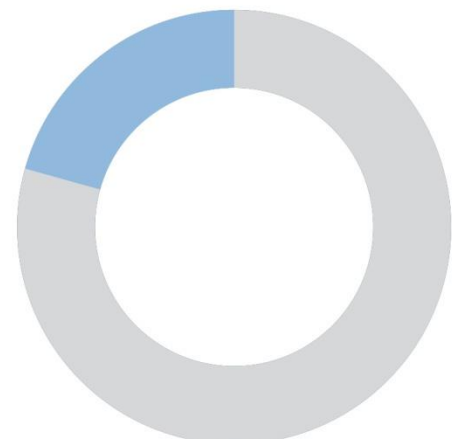
50%

POWER GENERATION



35%

OIL & GAS



15%

TRANSPORTATION

OUR PRODUCTS POWER GENERATION

Studs, bolts
Nuts, sleeves

Bushings

Tie bolts

Cylinders



OUR PRODUCTS POWER GENERATION

Labyrinth rings

Valve parts

Generator bolting

Burning chamber parts



OUR PRODUCTS

OIL & GAS



Stems

Hangers

Piston rods and shafts

Seals

OUR PRODUCTS

OIL & GAS

Bonnets

Rings

Lock screws



OUR PRODUCTS TRANSPORTATION

Turbocharger studs

Labyrinth covers, discs
and rings

Specialty fasteners for
large diesel engines



OUR PRODUCTS TRANSPORTATION

Components for cranes,
off-highway vehicles,
marine engines

Transmission components
and pins for construction
machines



MACHINING

Turning



dia

10–800 mm



max

length

5 000 mm

Milling



max

dimensions

(width × length × height)

800 × 2 000 × 600 mm

Deep hole drilling



hole dia

8–42 mm



max

length

2 000 mm

Grinding



max dia

600 mm



max

length

4 000 mm

Thread rolling



max dia

up to M180

Shaft machining



dia

20–600 mm



max

length

4 000 mm

MACHINE TOOLS

- 7-axis machining center
- 5-axis milling centers
- Robotic production line
- CNC machine centers
- CNC grinders
- Vertical turning lathes
- Milling and boring machines
- Conventional machines



MACHINE TOOLS





MATERIALS USED

- Nickel alloys
- Duplex and super duplex
- Stainless steel
- High temperature steel
- Quenched and tempered steel
- Structural steels
- Titan alloys



SURFACE AND HEAT TREATMENT

We provide externally per customer, EN or AISI specification

- Electrolytic zinc, copper, nickel, silver and chrome plating
- Phosphatising
- Plasma, HVOF, etc. sprayed coatings
- Nitrotec and Nitriding
- Zinc flake coating (Delta, Geomet)
- Fluoroplastic coating (Xylan)
- Induction hardening

...and another surface and heat treatment

QUALITY ASSURANCE

Destructive and non-destructive testing

- MPI – magnetic particle inspection
- PT – Penetrant testing
- UT – ultrasonic inspection
- Mechanical testing
[tensile strength, impact testing, hardness]
- Chemical composition analysis
- Coordinate measurement – 2x CMM, 1x Optical
- Visual control



ISO 9001:2015
ISO 14001:2015
ADW 2000/WO
PED 97/23EG

QUALITY ASSURANCE



REFERENCES

SIEMENS
energy



VOITH





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