



Rottenburg-Hailfingen

Company presentation

# WHO WE ARE.

SOBEK Drives develops and manufactures high-performance electrical drives and ECUs for customer specific projects in industrial applications. We are ready, if your needs call for products that do not yet exist. Proven for 20 years.

We are your partner in the development and production of prototypes, small series and series production. Due to our complete in-house manufacturing, we are able to react swiftly and flexibly to special requests. This saves you time, gives you security and increases your productivity.

Our strengths are customer specific developments – we can do line-work, but if it is tight, special and unique, we grow beyond ourselves. Of course we can provide great references, but you have your own peerless challenging tasks – let us sit down together and tackle them.

Quality is the result of years of experience combined with a continuous improvement process. As a medium sized high-tech company, we convince through performance. Performance means to deliver innovative ideas, high quality and reliability – for individual development as well as for a series production order. Thus, quality is our basis – of course certified according to DIN ISO 9001:2008.

# WHO WE ARE.

## Our values

Our values are our DNA. They guide the way we work with our business partners, within our communities and with each other.

### Mastering the complex

We aren't afraid of a complex challenge. In fact, we enjoy them. We master the challenging details that keep our customers on the cutting-edge and to support them in any situation, that's what drives us.

### Hands-on approach

We see the big picture and understand the role small parts play in it. When the bar is set high, we get to do what we do best: go beyond convention. We'll get our hands dirty and we'll get in the trenches with our partners to get the job done. Acting quickly and result oriented.

### Build trust

We believe in honesty not only because it's the right thing to do, but because it leads to better ways of getting things done. We are keeping agreements and we believe in having continuous communication, even if the message is not positive.

### True partnership

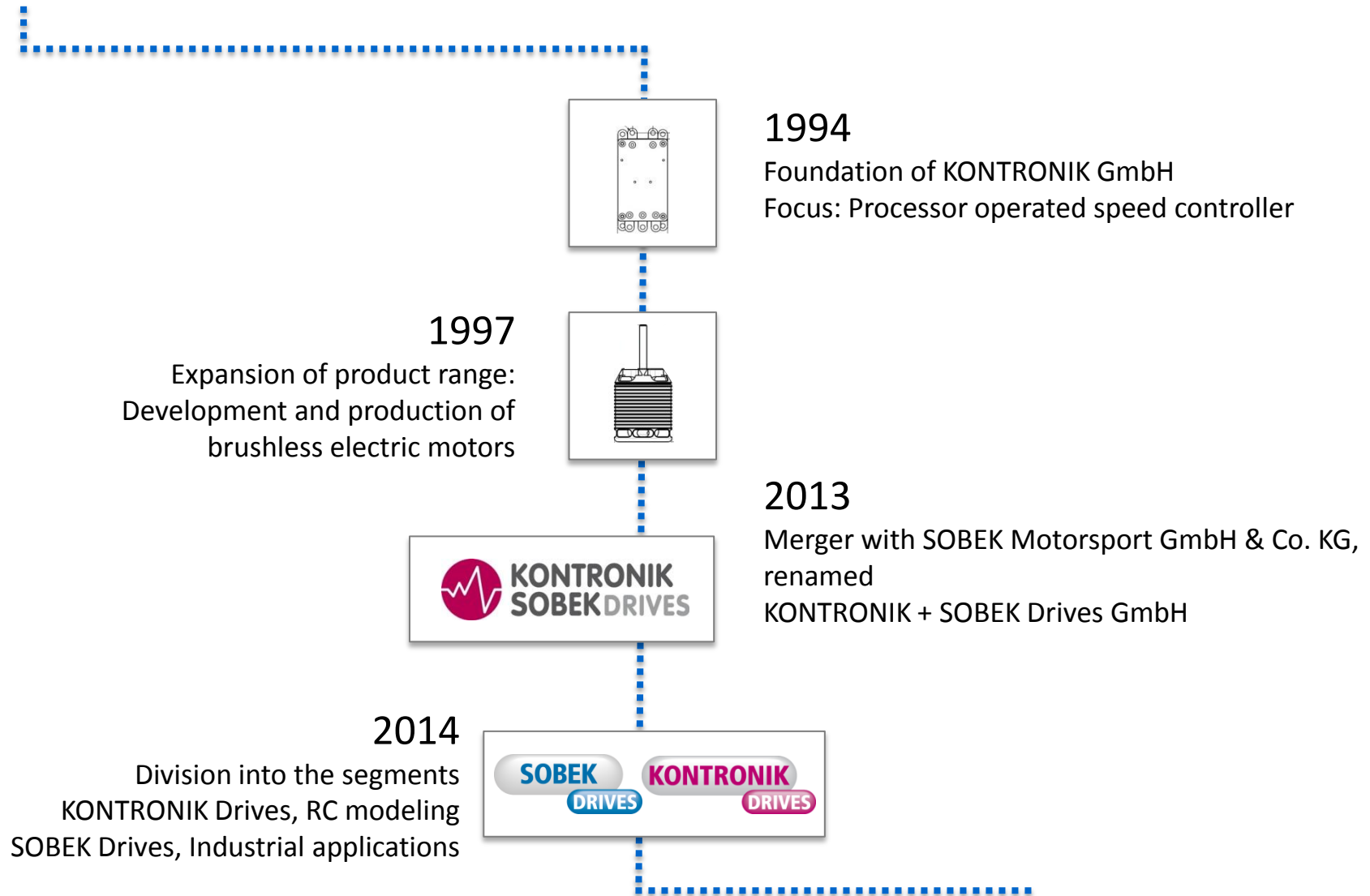
Together, we can accomplish what couldn't be done alone. Our success is based on lasting relationships that we have built with our customers for several decades. A project is only a success if you challenge us with another project.

### Encourage team work

We empower every team member to question the processes openly and constructively and challenge the standards around them in service of continuous improvement. Because the best ideas come from the floor, not necessarily from the board room.

**Passion for our customers**

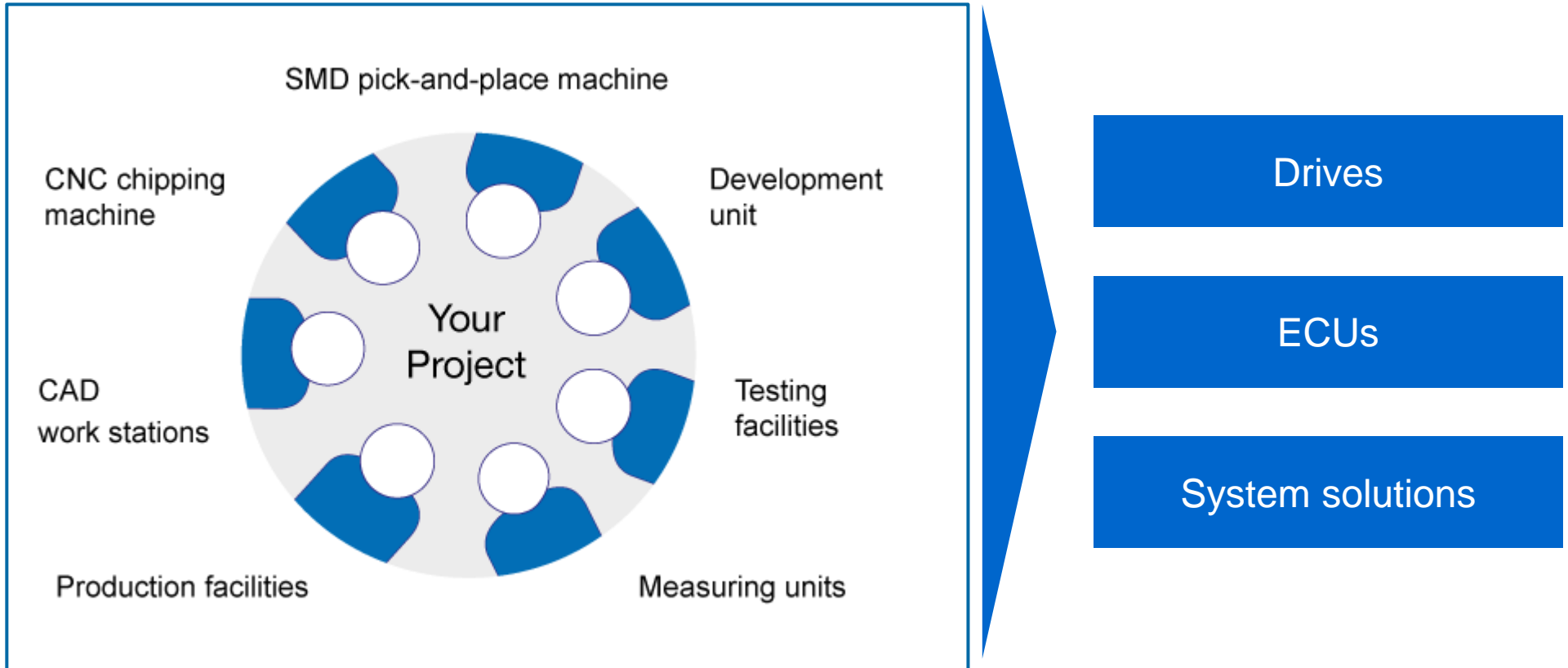
# HISTORY.



# WHAT WE DO.

## Range of services

Our interdisciplinary teams work together in a strong vertical integrated structure to create unique solutions from which you benefit.



# WHAT WE DO.

## Range of services

All SOBEK Drives products are developed and manufactured in-house – completely "made in Germany". Thus we can assure well-thought-out constructions, the use of high quality materials and meticulous workmanship.

Our system solutions are our references, some of them successfully in operation for more than 10 years. But, are excellent references really of use for you, as you have your own unique challenging tasks – let us sit down together and tackle them.

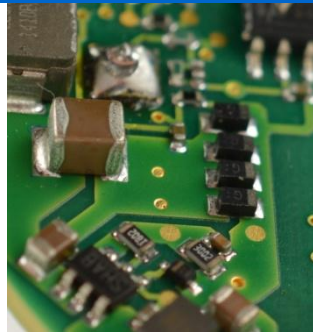
### Drives

- Brushless internal and external rotors (BLDC)
- High efficiency up to 95 %
- High power density (watts/gram)
- Efficient heat management
- Power up to 10 kW
- Speeds up to 50,000 rpm/V
- Weight from 80 g



### ECUs

- Block and sinus commutation
- Voltage range 6 - 75 V
- Continuous current up to 300 A
- Peak current up to 500 A
- Interfaces (e.g., CAN, LIN, I<sup>2</sup>C)
- Telemetry data transmission and data logging
- Controls (e.g. displays, buttons, apps)



### System solutions

#### Automotive

- Oil pumps, water pumps, 48V applications

#### Motorsport

- Impeller, impact wrench

#### Medical

- Surgical tools, wheelchairs

#### Sports equipment

- Bicycles, skateboards

#### UAVs

- Aerial photographs, geodesy, sporting events

#### Agriculture

- Pest control, cultivation

#### Screwdriving

- Hand-operated power tools

#### Laboratory and measuring technology

- Machine drives

# WHAT WE DO.

## Range of services



„All from one source” is part of our heritage:

Both in our high-tech automation in series contracts as well as in our manufacturing of unique prototypes, we place great emphasis on quality, precision and reliability.

We also rely on integrated local production: from the supplied raw material to the finished product – completely in-house.

Thus, we are flexible and fast.

We know, technological breakthroughs can only be achieved if you are willing to get your hands dirty.

This we proofed in numerous long-term experiences in various sectors and application areas:

Always pragmatic,  
Always result-driven.

# REFERENCES.

## Prototypes, engineering and series

### High-performance impeller



#### Engineering service

Design of a high-performance impeller with BLDC motor and BUS control for transmission components

#### Challenge

- Time issue
- pre-production models showed critical temperatures for transmission components
- High requirements regarding flow volume

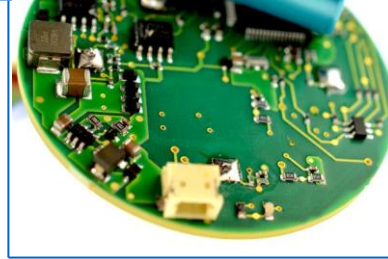
#### Medium

Air

#### Realization period

6 weeks

### Control electronics oil pump



#### Engineering service

Development and production of a demand-controlled ESC for a BLDC-oil pump drive

#### Challenge

Time issue

#### Medium

Oil

#### Realization period

3 weeks

#### Customer

OEM

### MTF cooling



#### Engineering service

Design of a complete supplemental gear oil cooling circuit

- Electric pump ( BLDC motor + pump)
- Line system and oil cooler

#### Challenge

- Time issue
- pre-production models showed critical temperatures for transmission components

#### Medium

Oil

#### Realization period

8 weeks

#### Customer

OEM



# WHY US.

## SOBEK Drives

develops and manufactures...

high-performance BLDC motors and ECUs  
„made in Germany“ in a...

pragmatic, flexible and efficient way,...

to give companies from different industry sectors the  
crucial competitive edge,...

even if they are running out of time.





## AT A GLANCE

SOBEK Drives develops and manufactures ambitious electrical drives and ECUs in the high-performance segment for customer specific projects in industrial applications.

We deliver high-performance products and services “made in Germany” in a pragmatic, flexible and efficient way to give companies from different industry sectors the crucial competitive edge, even in time sensitive situations.

Foundation: 1994

CEOs: Alexander Herm, Jens Klinck

Employees: 40

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