



C.O.R.E.

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UNITED GRINDING Group



IMPACT 620



UNITED GRINDING



# DIGITAL TRANSFORMATION

Who we are...

Why digitalization? What drives us?

C.O.R.E. and Digital Solutions

Our Digital Vision



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# UNITED GRINDING – OUR GROUP IN NUMBERS



**~ 2'500**  
employees

**+15'000**  
customers



**~ 550**  
Customer Care  
employees



in **+ 40**  
countries present



**+ 20**  
locations

**~ 10%**  
apprentices



**+ 150'000**  
supplied machines



**~ 30**  
nationalities



**100%**  
independent



**~ 50'000**  
installed machines



# DIGITAL TRANSFORMATION

Who we are...

Why digitalization? What drives us?

Developing a digital vision & strategy

Our Digital Vision

## WHY DIGITALIZATION? WHAT DRIVES US?

**"Digital  
Transformation is  
more about humans  
than digital."**

**BRIAN SOLIS**



## SOCIAL DRIVERS – NEXT GEN WORKFORCE

- They don't know a time before the internet, they are never offline
- Connectivity and data exchange anywhere & anytime is normal
- They are born with multi-touch gestures, it's already in their DNA



& then we  
confront them  
with this...



- Modern usability of machine tools will become important
- Interaction has to become intuitive, expert systems are necessary
- Smartphones have to become integral user interfaces





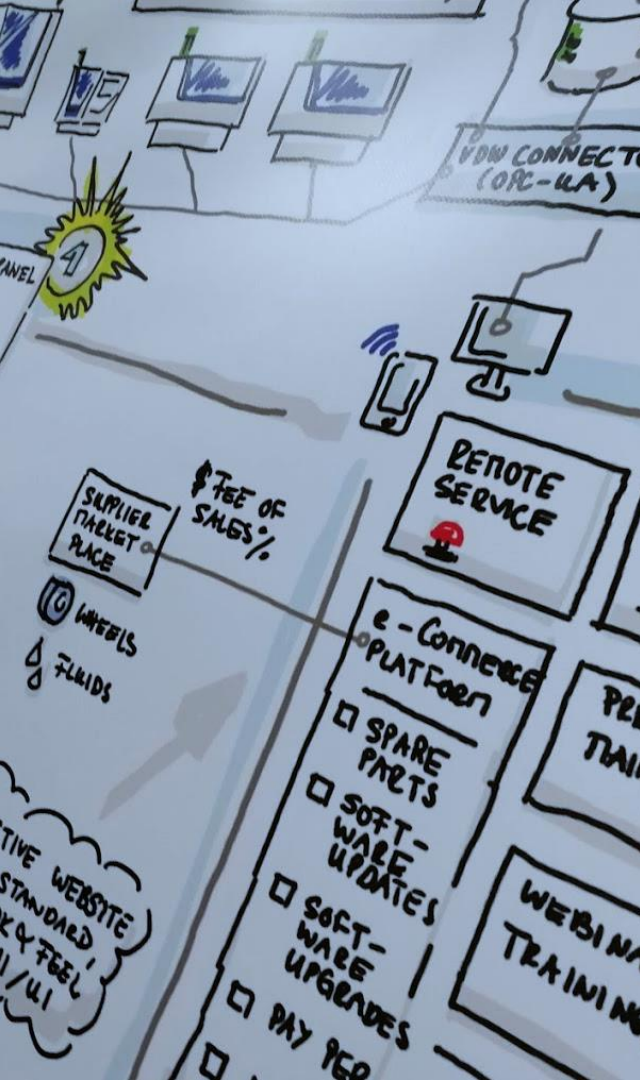
# DIGITAL TRANSFORMATION

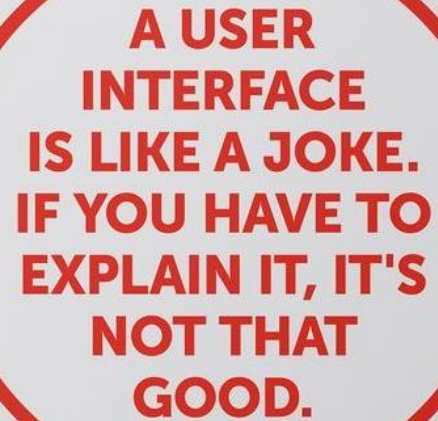
Who we are...

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A large red circle is centered on a white rectangular background. Inside the circle, the text 'A USER INTERFACE IS LIKE A JOKE. IF YOU HAVE TO EXPLAIN IT, IT'S NOT THAT GOOD.' is written in red, bold, uppercase letters.

**A USER  
INTERFACE  
IS LIKE A JOKE.  
IF YOU HAVE TO  
EXPLAIN IT, IT'S  
NOT THAT  
GOOD.**

# C.O.R.E. SHAPES THE FUTURE OF MODERN MACHINE TOOL INTERACTION



NASA Space Shuttle (1985)



SpaceX Dragon (2020)

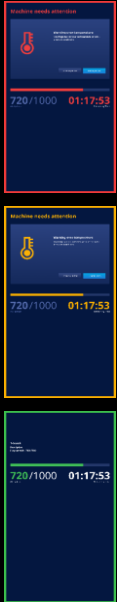
# C.O.R.E. AND DIGITAL SOLUTIONS

- Modern Human-Machine-Interaction
- User-Specific HMI
- The UNITED GRINDING Standard for all Brands



- INTEGRATED CAM**
- ERGONOMIC HANDLE BAR**
- MAGNETIC STRIPES**
- 24" FULL HD MULTITOUCH DISPLAY**
- OPERATOR PROXIMITY SENSOR**
- ERGONOMIC FEEDRATE-OVERRIDE WITH CYCLE START**

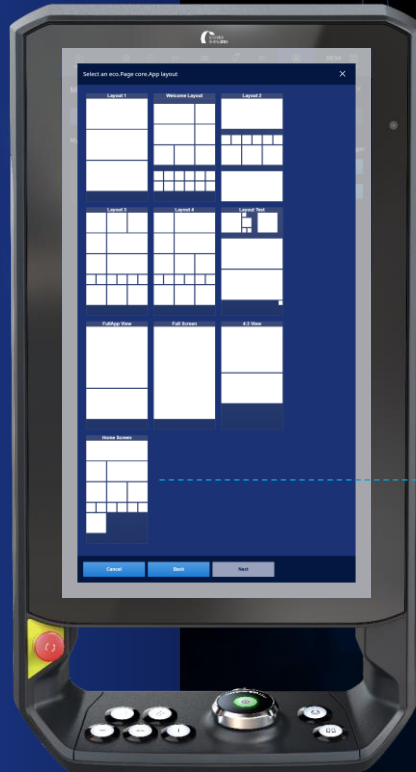
## DARK FACTORY MODE



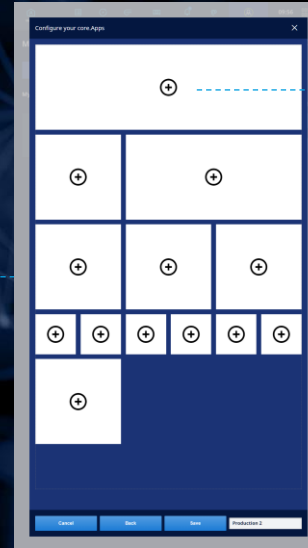


# C.O.R.E. AND DIGITAL SOLUTIONS

## SCREEN TEMPLATES



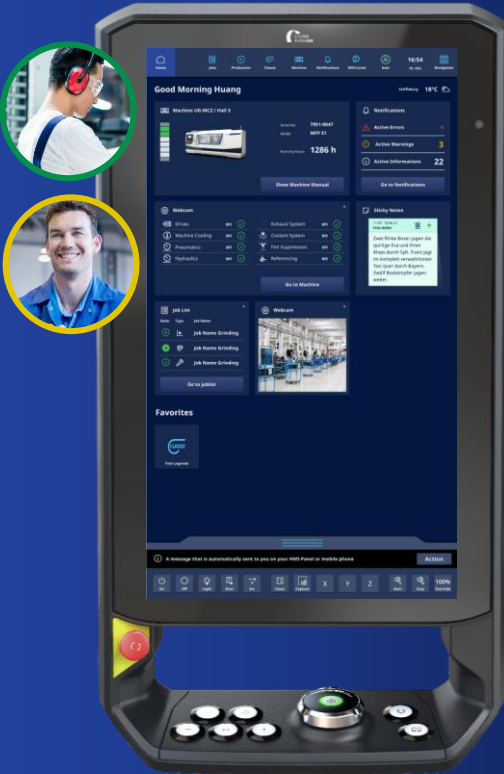
## HMI SCREEN



## UI COMPONENTS



# C.O.R.E. AND DIGITAL SOLUTIONS



PURE MODE // C.O.R.E. HMI  
«JOB LEVEL»



CLASSIC MODE // e.g. StuderWIN  
«TECHNOLOGY LEVEL»

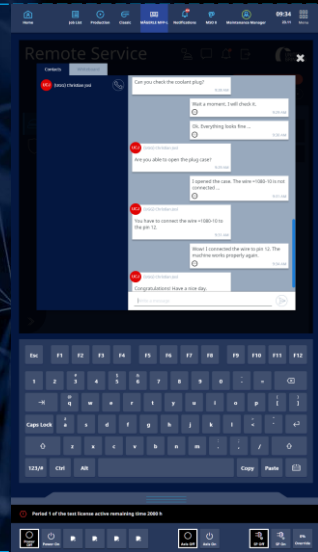


NATIVE MODE // FANUC  
«CNC LEVEL»

# C.O.R.E. AND DIGITAL SOLUTIONS



INTEGRATED  
PANEL CAM

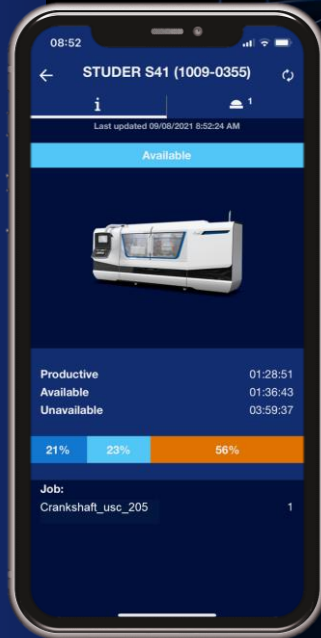
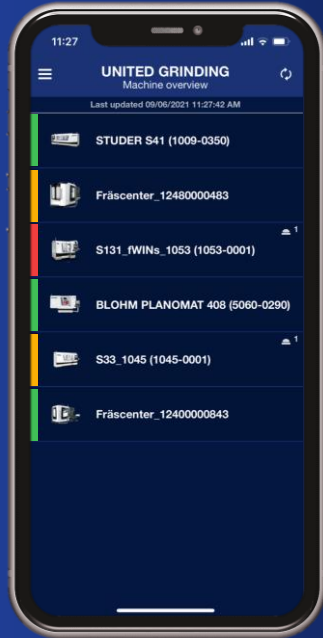


SERVICE CHAT



WHITEBOARD  
DOCUMENT SHARING

# C.O.R.E. AND DIGITAL SOLUTIONS







## Who we are...

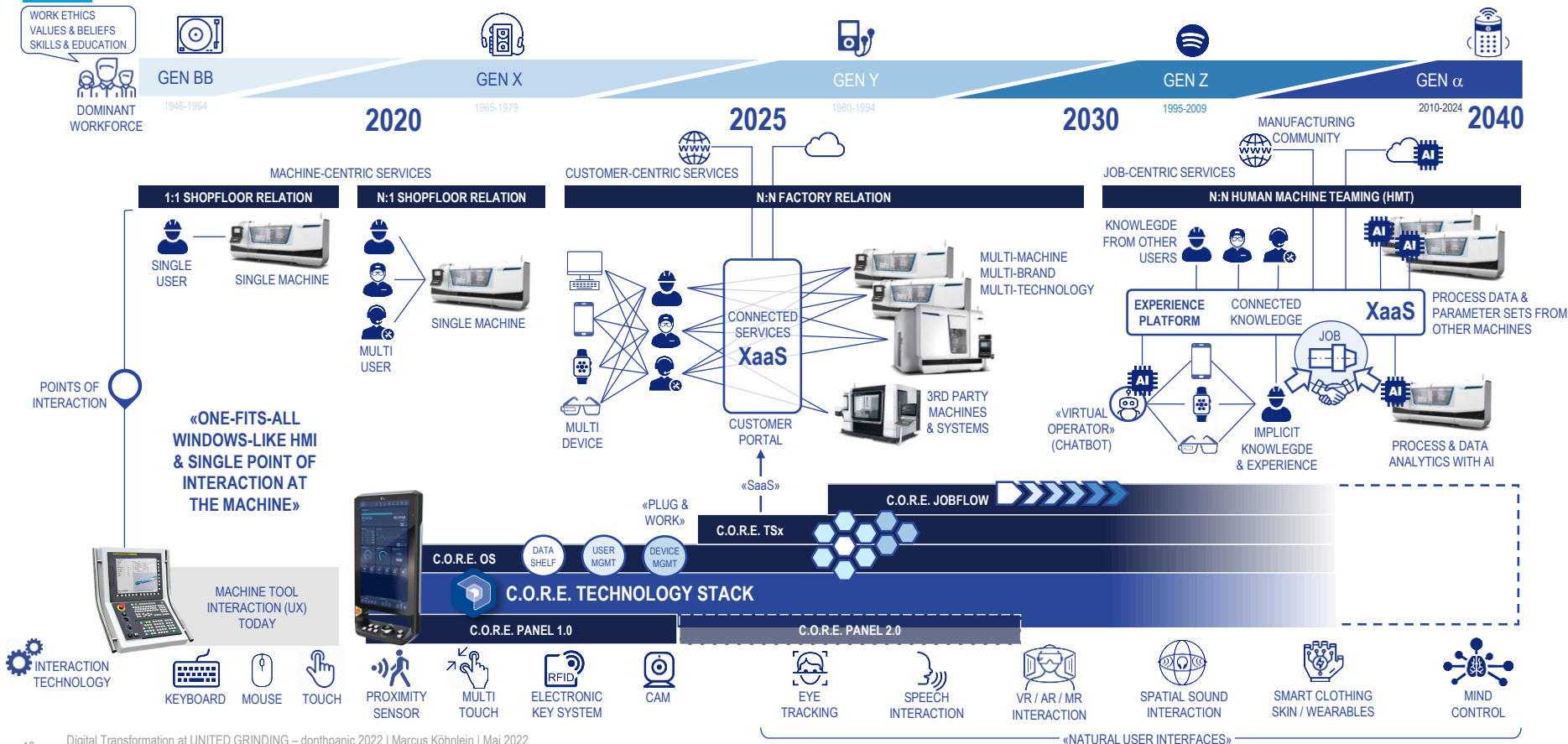
## Why digitalization? What drives us?

## C.O.R.E. and Digital Solutions

## Our Digital Vision



# C.O.R.E. // TRANSFORMATION TIMELINE



**THANK YOU**