BRUDERER

PRECISION – SWISS MADE

10 April 2025

**2nd Czech-German Business Meeting**

Transforming Industry
with Intelligent Production
and Energy Solutions

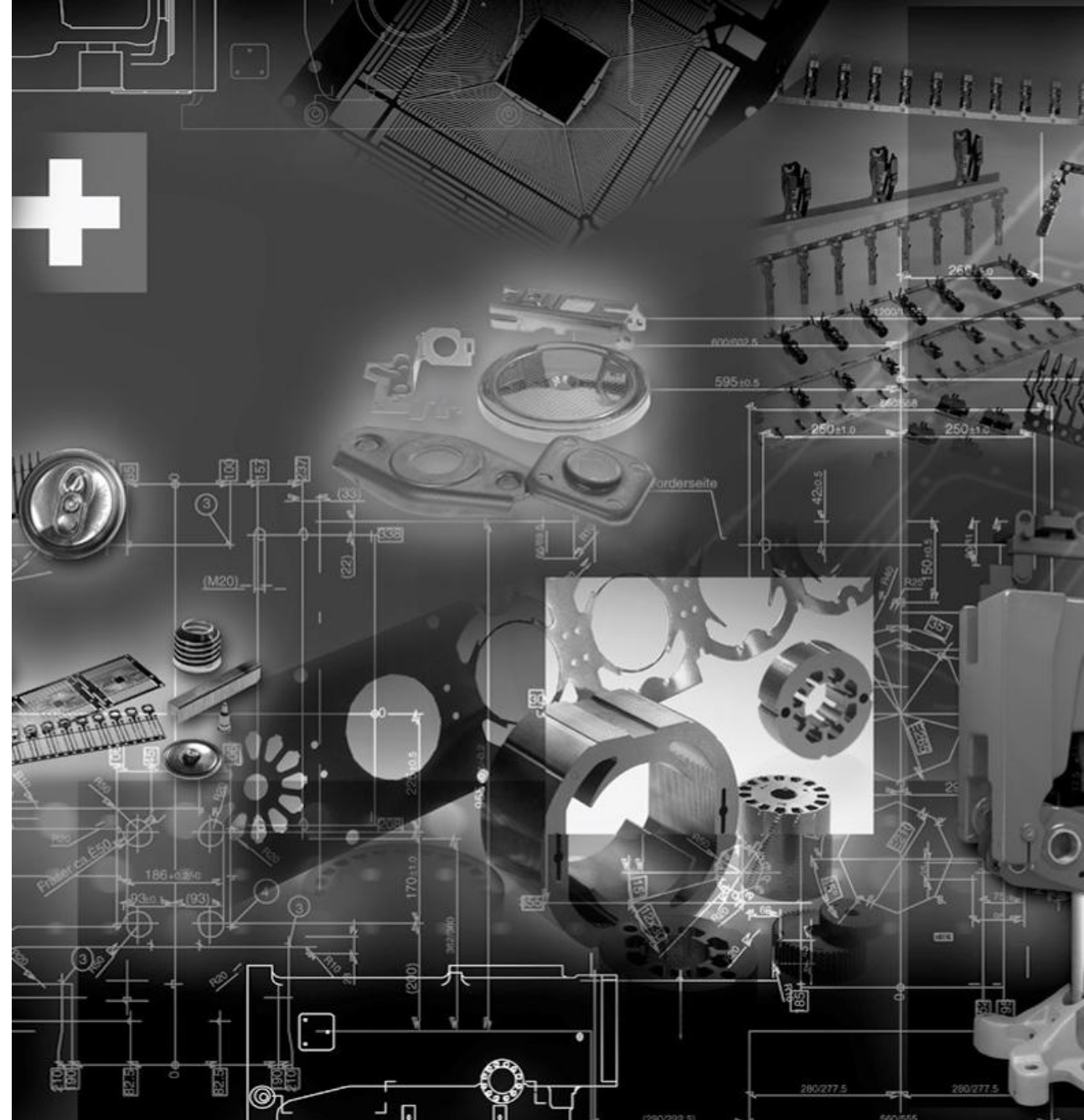VSB - Technical University of Ostrava

VSB TECHNICAL UNIVERSITY OF OSTRAVA

in cooperation with
Fraunhofer

# Products, Innovation, Sustainability

Precision produces perfection.

# Agenda

1. Press Control B3

2. BSP – Bruderer Lamination Control

# BRUDERER B3 press control

## New dimensions in operating

### Integrated modularity for maximum functionality

The BRUDERER B3 control multilanguage display provides continuous information on all relevant events and operating conditions across the entire production line.

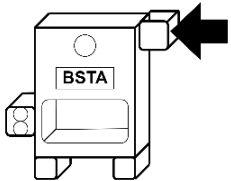Various possibilities for accessing the HMI, via machine screen, mobile devices, office PC
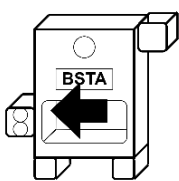
Status /Error
Messages

Time | User

Navigation
- Menus
- Access Services

Stroke speed

Ram height adjustment

**Messages**
Disengaged
3/15/2024, 2:51:49 PM | Service

**Note**
Engage the machine at the console
BrudererDefaultTool

Information /
User guidance

Actual tool

**Navigation**

**Set up | Inching**
Total  00:00:14
951 | 1,000   49

Operating mode

**Stroke rate**
400 1/min
0
100
100 1/min

**Stroke position**
0°
90°   1.4   270°
180°
6
6.41
Hub

Eccentric shaft position/stroke
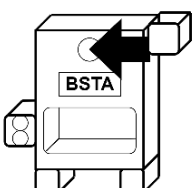
**Ram**
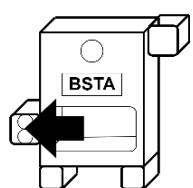Corrected shut height
213.700 mm
213.470 mm  213.470  -0.030
213.300 mm

**BSVL 1**
0°
90°   270°
180°

Feeder

# BRUDERER B3 press control

**New Operating Concept**

- **Operating concept of max. 2 clicks to desired function**
- **User management with role-based access rights and customizable main page**
- **Web based visualization with responsive design – multiple access possibilities**
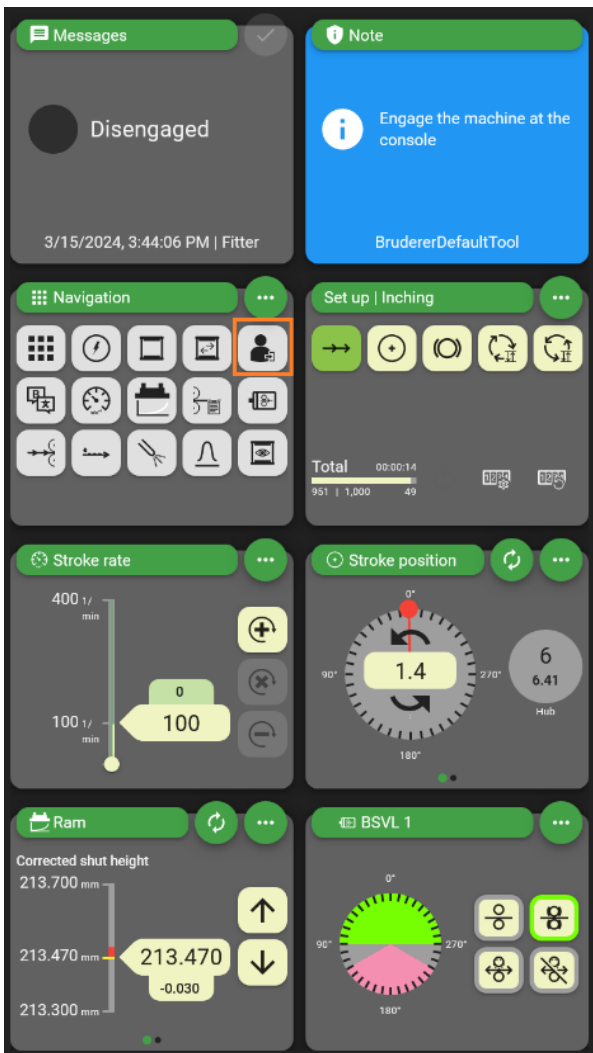- **Possibility of mobile operation via WLAN**

## Operating Concept – Windows
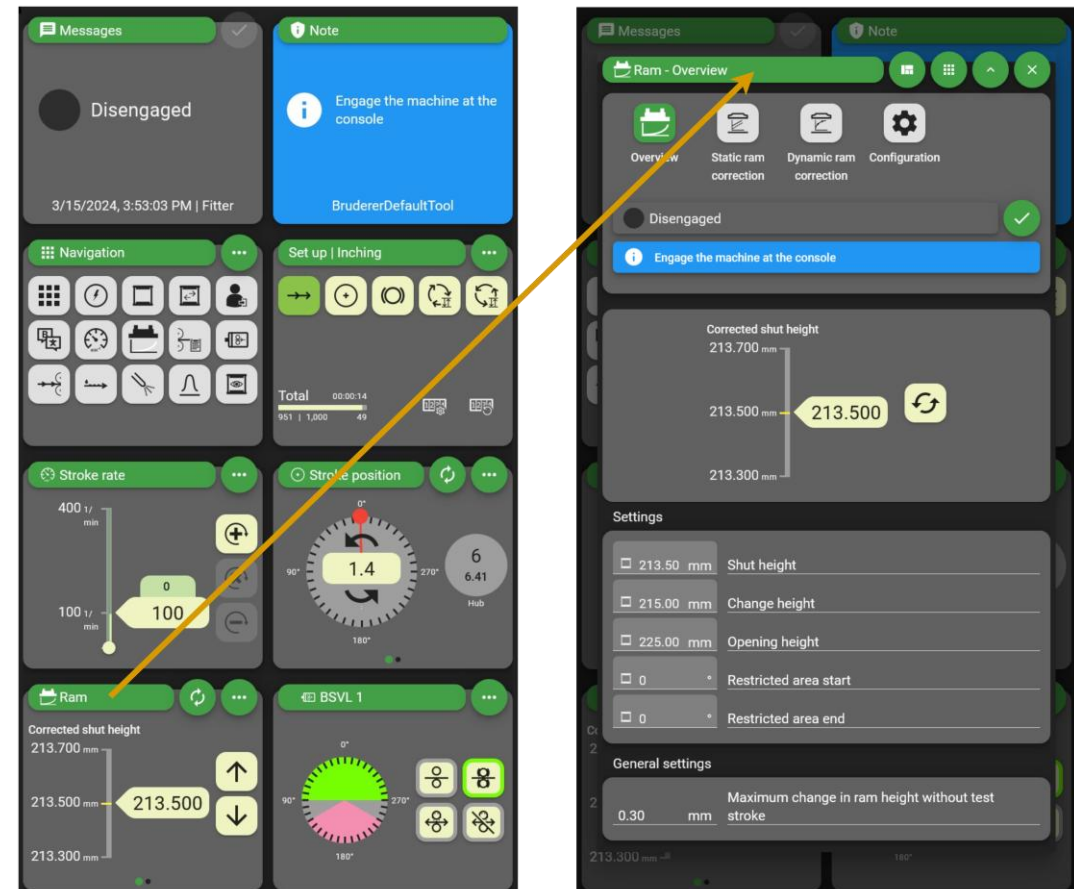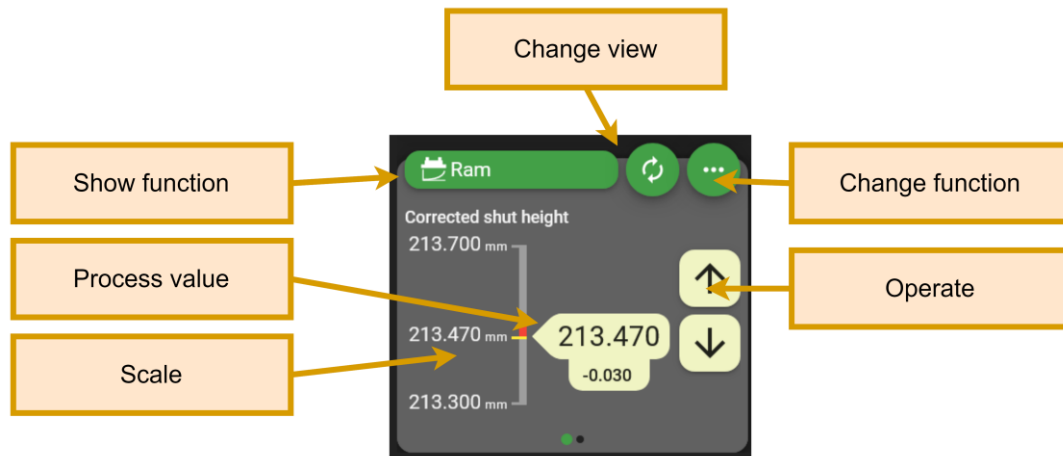
# BRUDERER B3 press control

## Operating Concept – Users & Roles

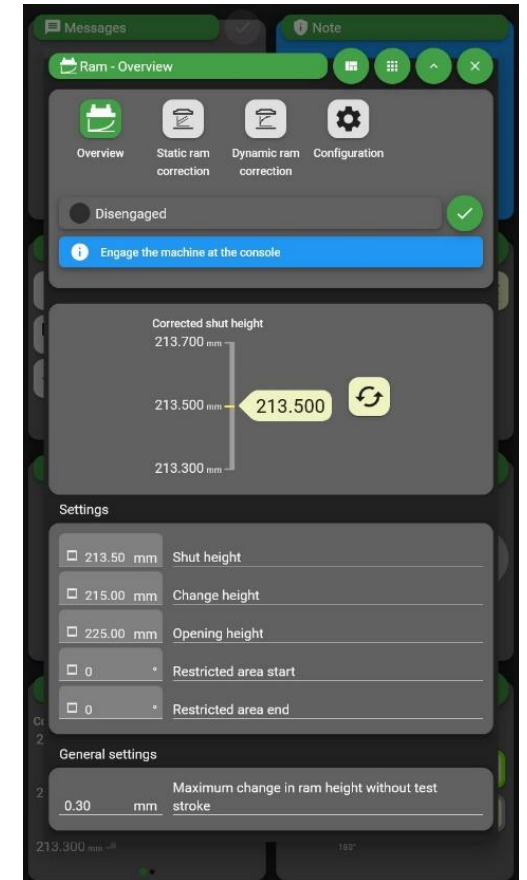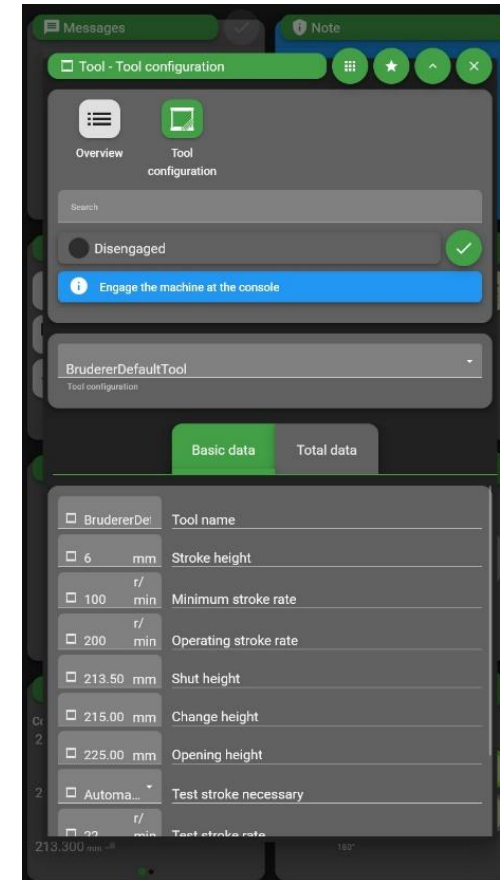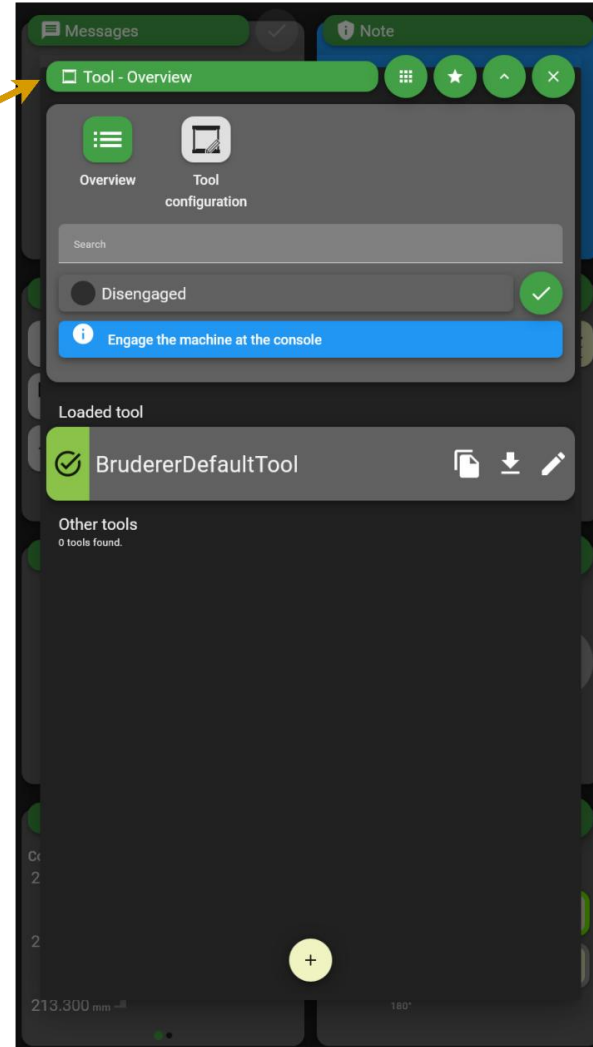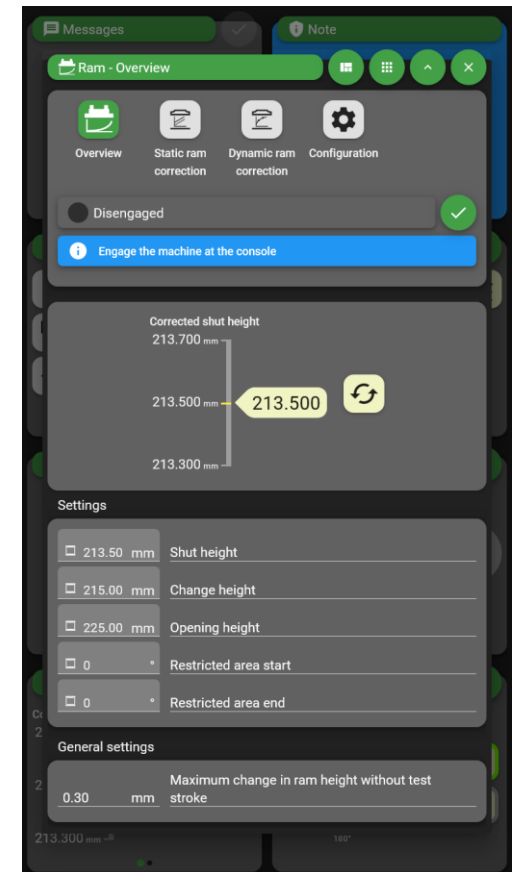| User / Role | Permissions |
| --- | --- |
| Service | Bruderer Service – Setting and activating functions |
| Fitter | Tool Settings |
| Operator | Operating Functions |

## Operating Concept – Tool Settings

## Operating Concept – Basic Functions Examples
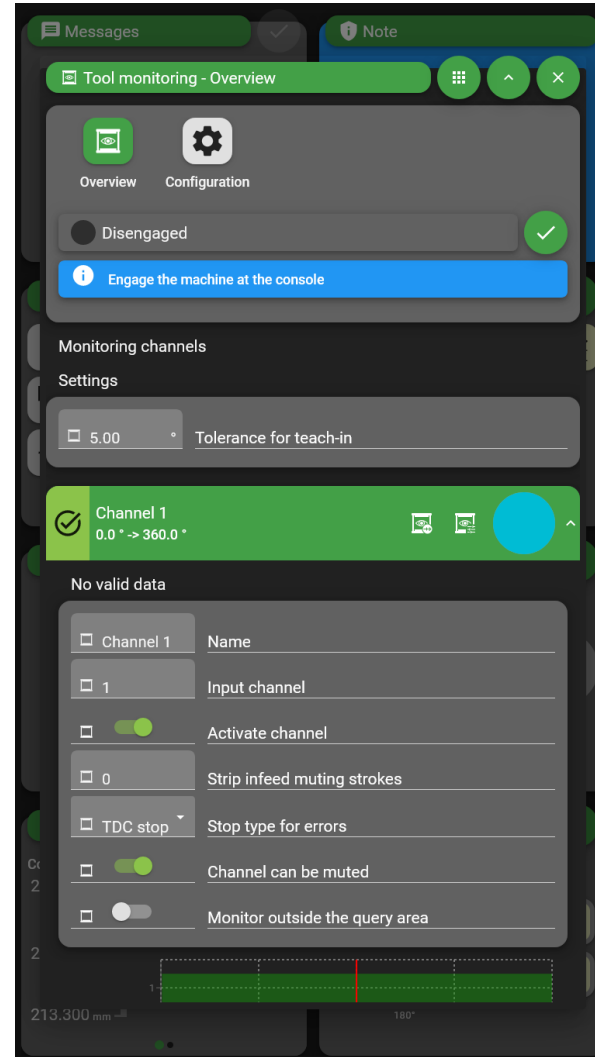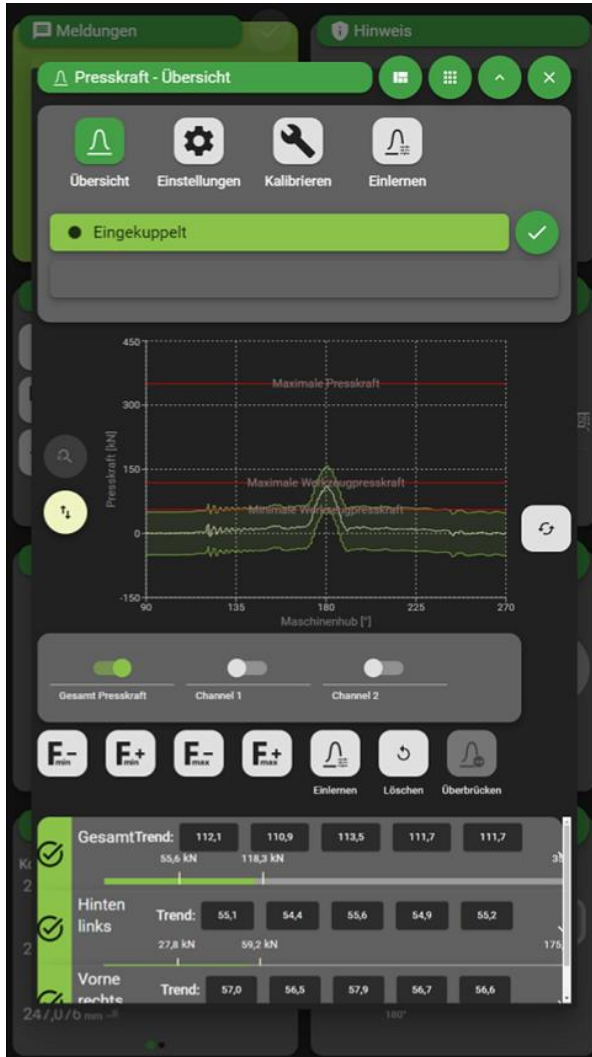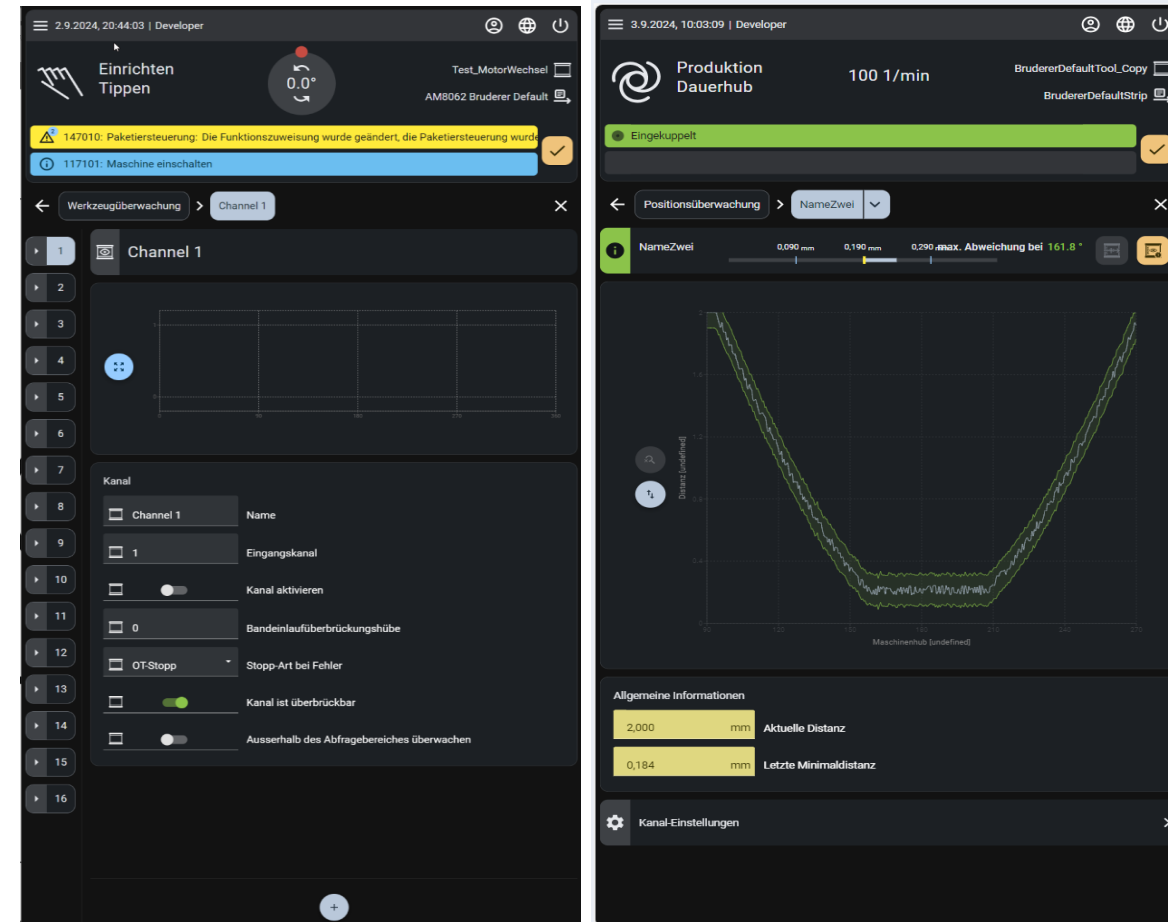
**Operating Concept – Monitoring Systems**

- **Automatic teach-in for all monitoring services (digital & analogue)**
- **Envelope curve for analogue monitoring services**

# Surveillance functions

- **B3 tool monitoring**
  up to additional 16 channels


- **B3 position monitoring**
  max. 8 channels with envelope monitoring 0-10V Sensors

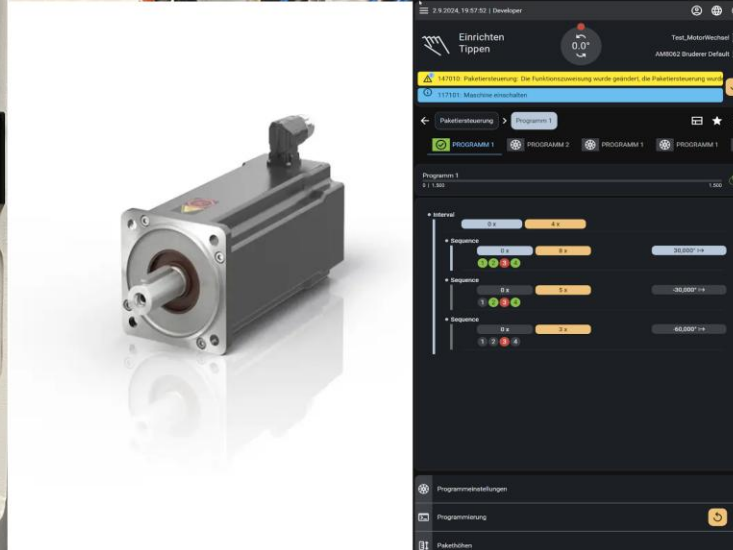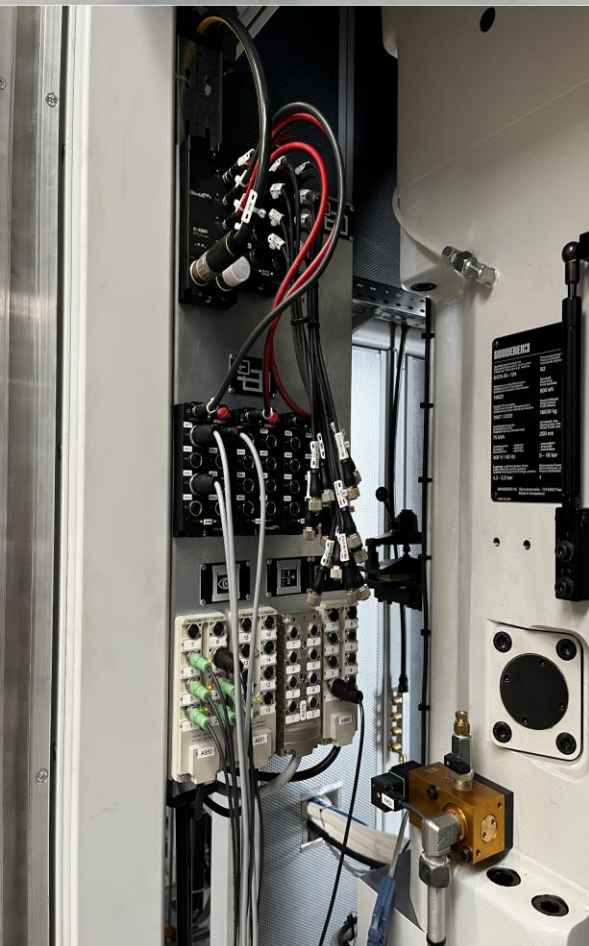# BRUDERER
# Lamination Control

## Lamination Control System

- 1 – 6 turning stations (indexing)
- 1 – 6 conveyor control
- 1 – 8 channels for position monitoring
- 4 – 16 tool monitoring
- Up to 32 free programmable sliders and package height control

- Patented integrated strip thickness measurement
- Data export/import
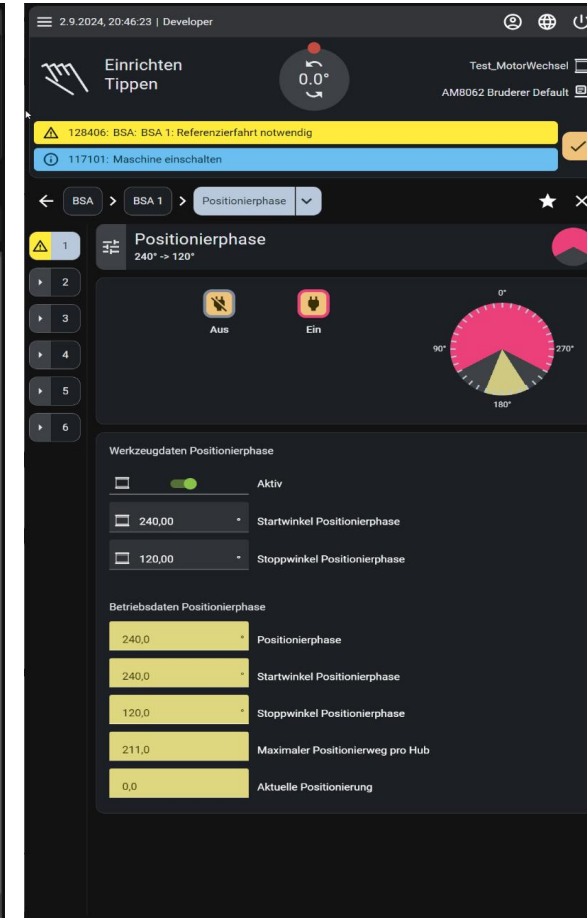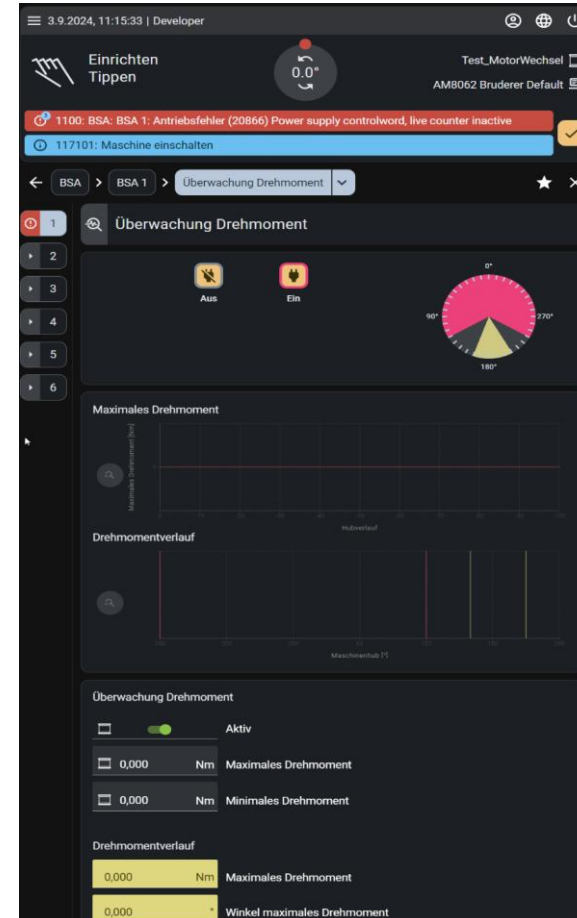- Standalone or integrated in press control B3

# Main functions

- Slider control for pneumatic cylinders
  Supports a maximum of **32 sliders, including monitoring**
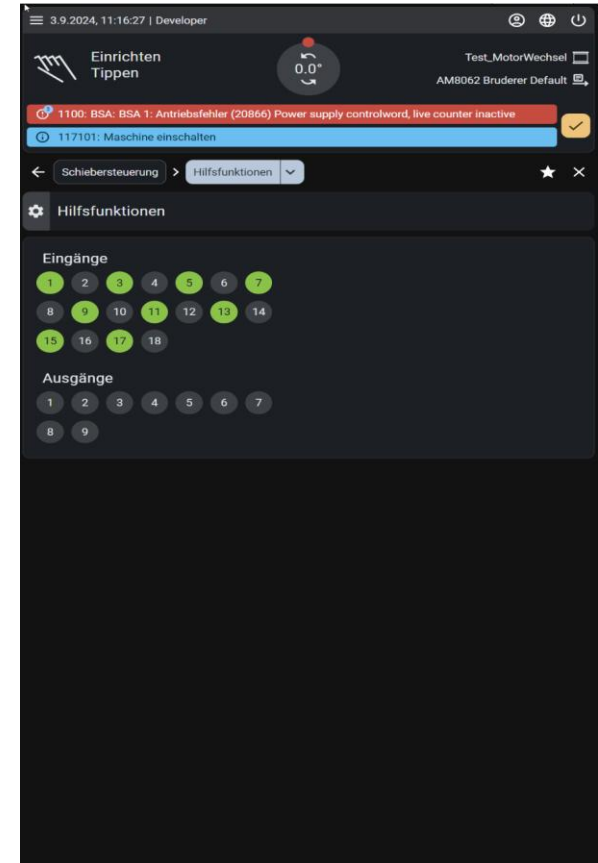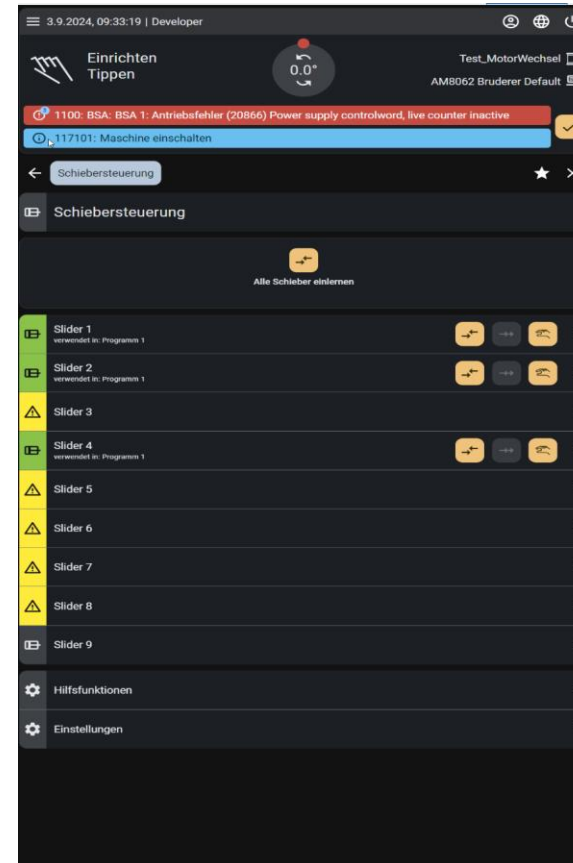
# Main functions

- **Programmable turning stations**
  max. 6 turning stations with torque-reduction
  & free angle in both directions

# Overview motors for turning stations:

| small load 3.22 Nm | medium load 11.4 Nm | high load 21.1 Nm |
|---|---|---|
| AM8033 - 1JH0 | AM8553 - 1LH0 | AM8062 - 1LH0 |
| Expample: T1/4 , 600 Stroke/min, 3Kg, Angle: 60° | Expample: T1/4, 300 Stroke/min, 15Kg, DW: 120° | Expample: T1/4, 300 Stroke/min, 25Kg, DW: 90° |
| | | |

# Functions

- Strip-thickness measurement
  and package height control
  inductive / tactile measurement integrated in BSVL & BSV
  or external system
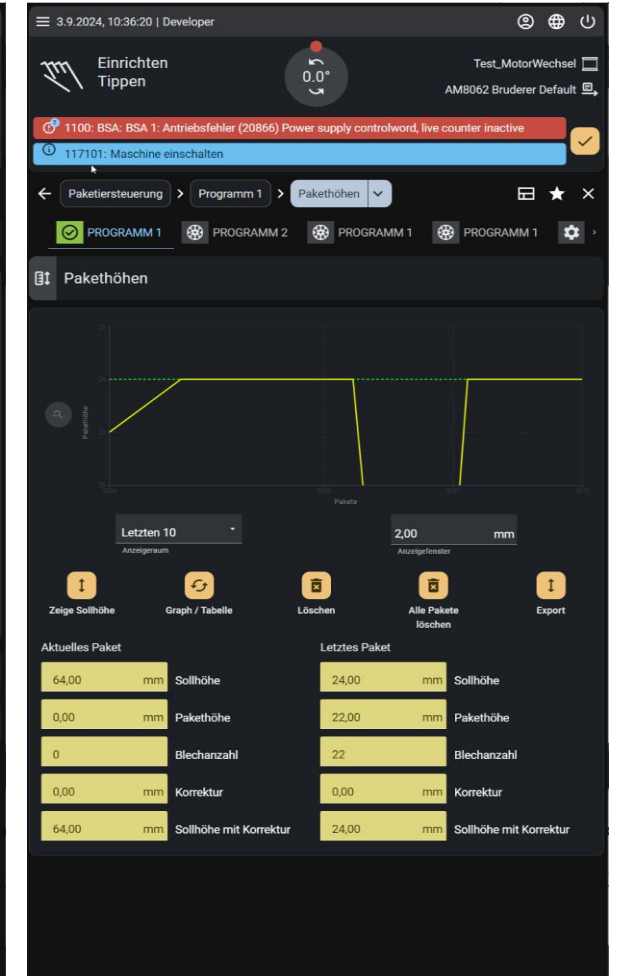
# Strip-thickness measurement options



- **External**
  Attached over HW-interface

- **Integrated in BSVL**
  max. 1 Sensor (inductiv) / option pendular roll

- **Integrated in BSV170 / BSV300**
  max. 2 Sensors (inductiv) / option pendular roll
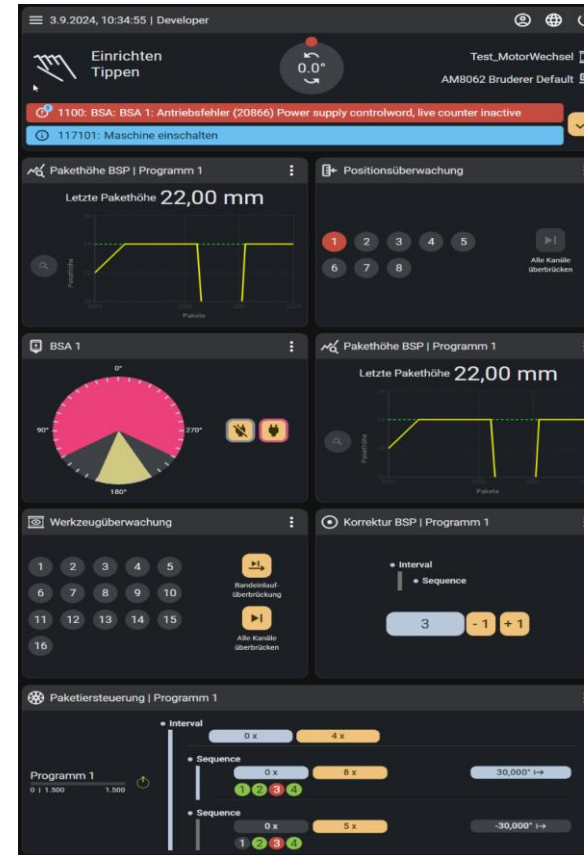


Baumer IWFM-
20U9509/KS35AP
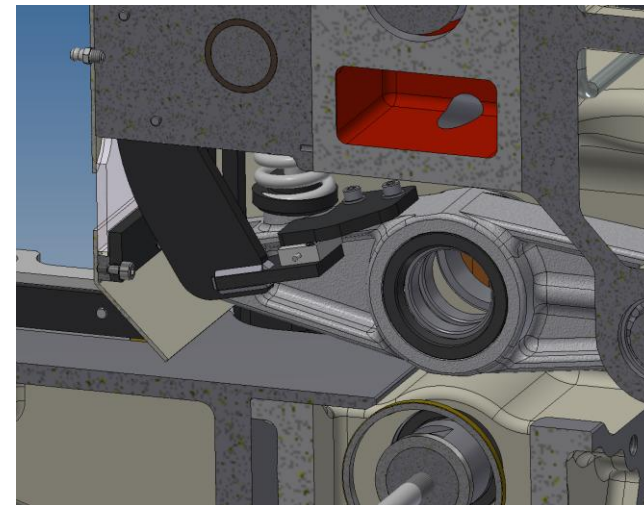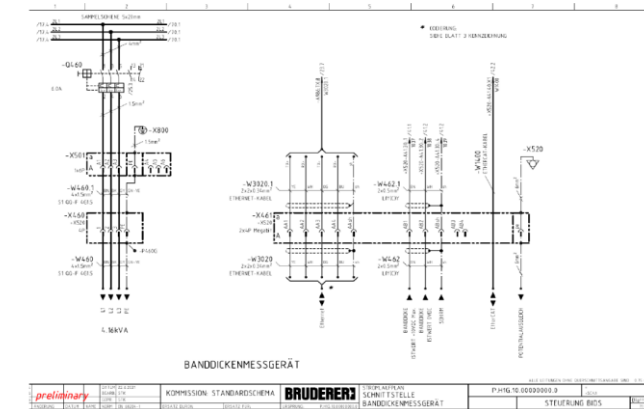
# Additional functions

- Strip lubrication
  Interface to external strip lubrication

- Conveyor control
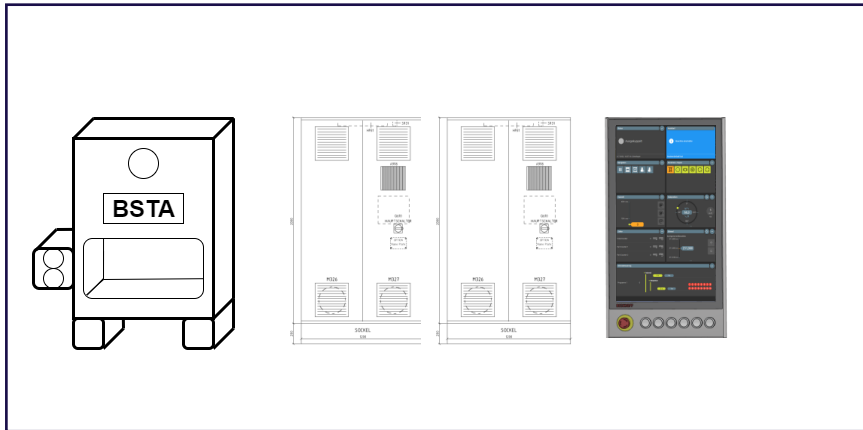  Supports a maximum of 6 conveyors including monitoring
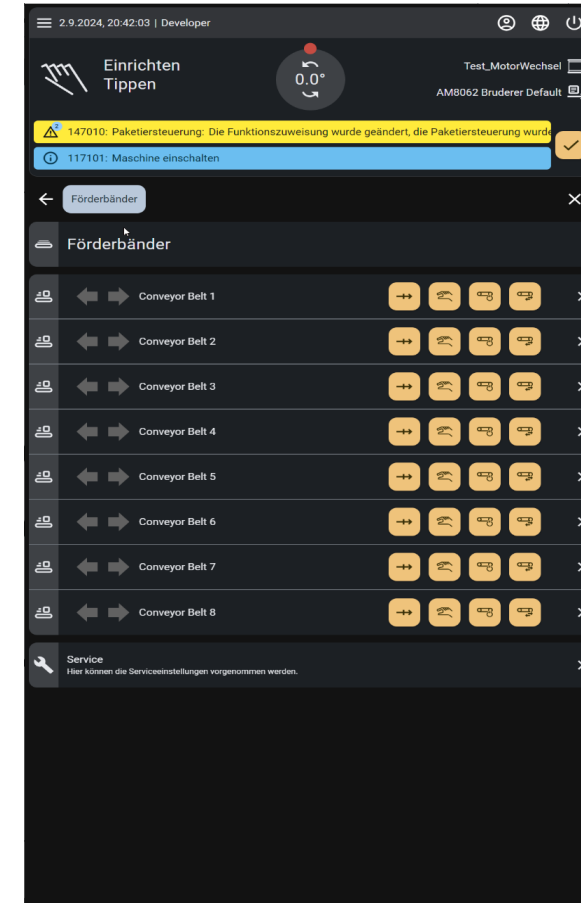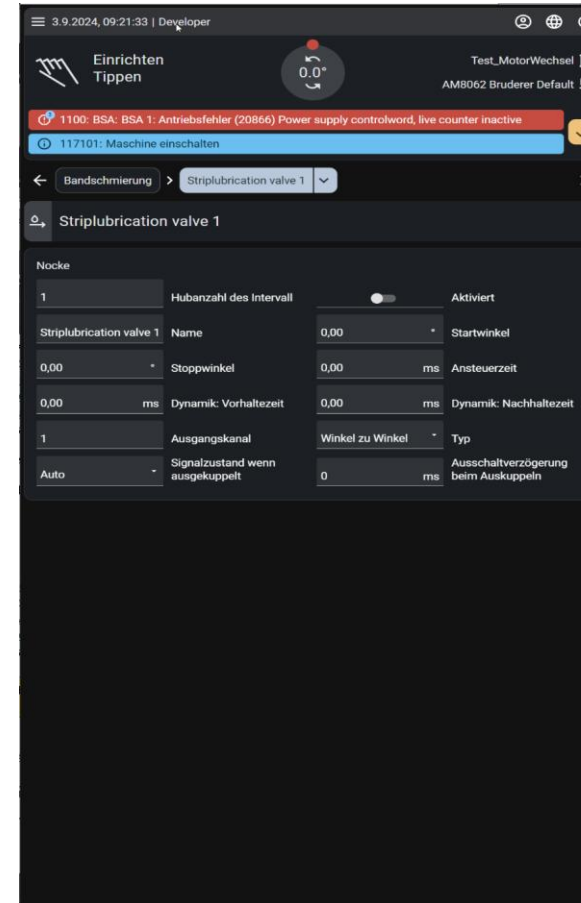
# Additional functions
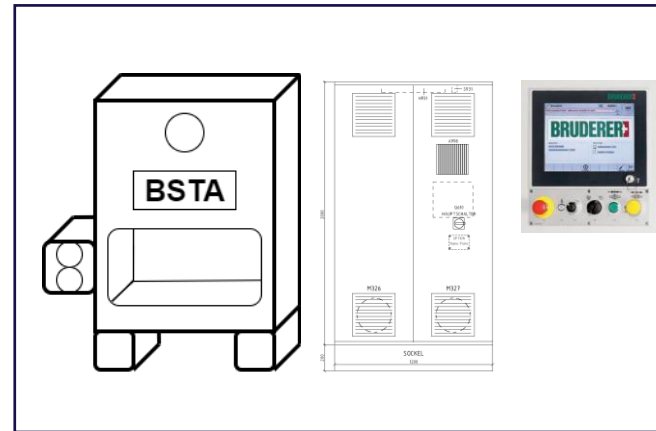
- Free programmable main screen
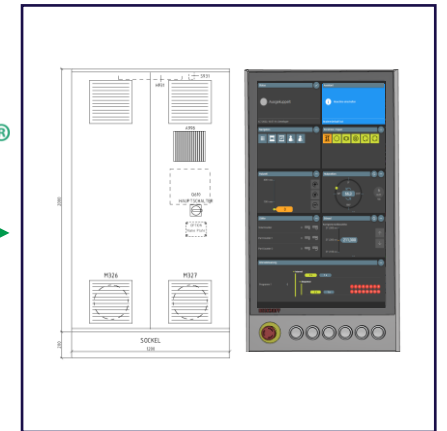  User dependet mainscreen

# Fully integrated or standalone

Integrated with B3 technology

Attachment to a B2 control

BSP standalone

# Thank you
# for your attention.