

## Advanced automation and Industry 4.0 solutions





We design  
and develop  
advanced automation  
and Industry 4.0  
solutions

**REM Software & Automation** is an engineering company specialising in software development for **industrial automation projects** and **Industry 4.0 applications**.

It currently employs 35 qualified people. By always keeping up to date with the latest technologies, we make it possible for our customers to **develop customised, cutting-edge products that are competitive in global markets**.

The industry's demand for Industry 4.0 solutions was the reason why REM Software & Automation decided to develop a product suite not only for **collecting and presenting production data in an organised manner**, but also for **integrating machines with production management**.

## Applications

- Application suite for collecting Industry 4.0 data
- Developing PC and mobile applications for tracking production data
- Developing applications for interfacing machines with the production management system

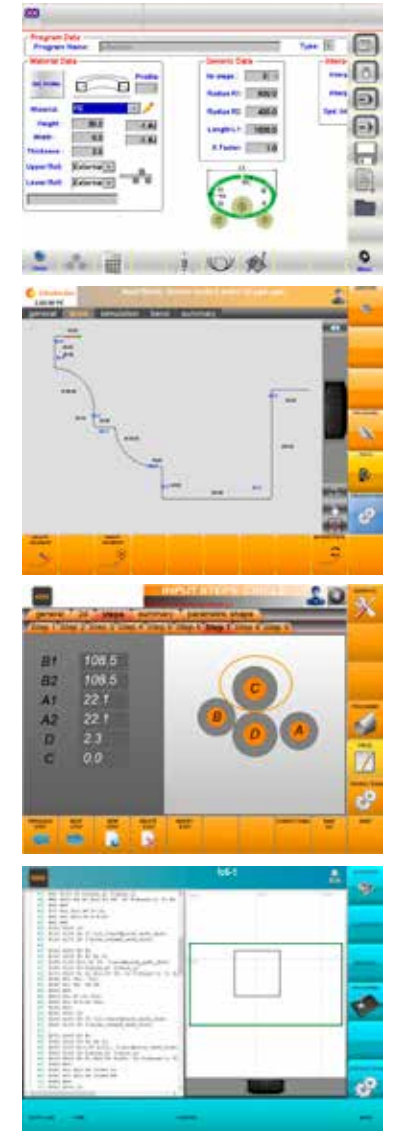
## Software Development

- Developing robotics applications, PLC, user interface
- Servicing and distributing Lazersafe safety PLCs for press brakes



## Fields of Application

- Sheet metal forming machines
  - Folding machines
  - Plate roll bending machines
  - Profile bending machines
- Cutting lines
- Press brakes
- Shearing machines
- Laser, plasma and water cutting
- Tube bending machines
- Logistics
  - Automated warehouses
  - Palletising
  - Packaging



# Smart Tracer



**Smart Tracer** is a mobile app that allows the **production data of machines or plants operating** in an industrial environment to be **monitored remotely** using cloud technology.

It can display information from one or more machines that publish production data on databases.



## MONITORING

The following are displayed for each connected machine:

- Connection status
- Active machine status
- Programme being executed
- OEE Index

## SELECTIONS

- Machine production data
- Production period
- User management

## STATISTICS

Pie charts of:

- Statistics for the selected period
- Total amount of time in each status for the selected period

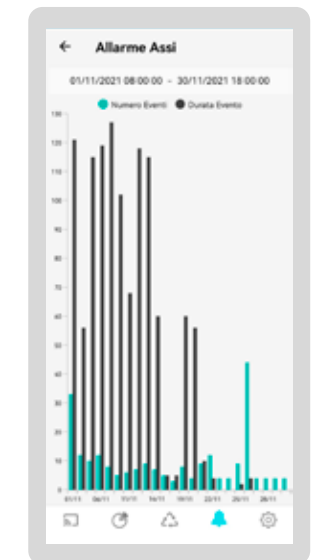
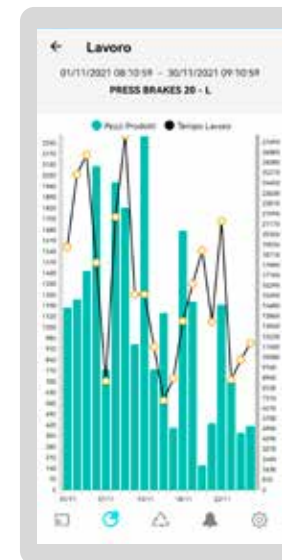
## PRODUCTION

Sequential list of production orders for the selected period:

- Production order code and program
- Order execution start date/time
- Production duration
- Number of pieces produced
- Distribution of pieces produced per day
- Time distribution in relation to machine statuses

## EVENTS

- Event description
- Production order code and program in use when the event occurred
- Event start date/time
- Duration of the event
- The number of times the event occurred and how long it lasted in total for each day in the selected period





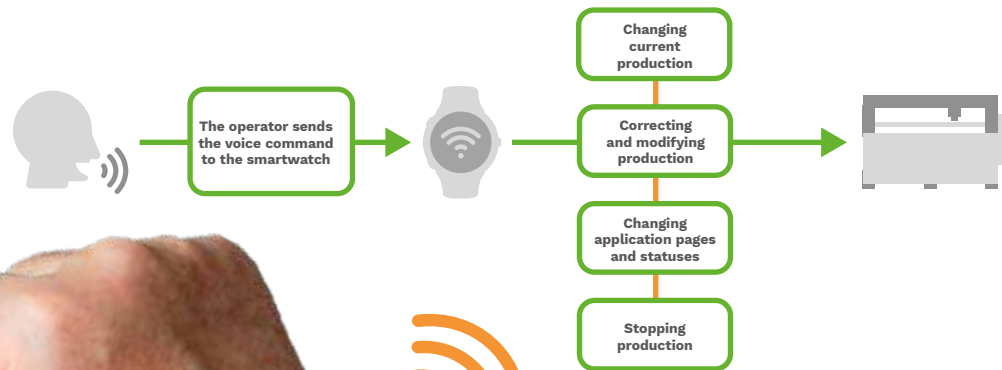
# Machine Assistant



**Machine Assistant** is an application for smartwatches that makes it possible **to send remote commands to the control unit of a machine.**

The **various stages of production can be managed using predefined voice commands**, which makes functional processes easier for operators.

All kinds of machines or systems can have a set of voice commands tailored to specific needs.



## STRUCTURE

The Machine Assistant manages:

- Voice commands
- Custom measurement
- General settings

## COMMAND INTERFACE

There are three icons in the voice command interface:

### Connection status:

- Wi-Fi device disabled;
- No Internet connection;
- No connection to the machine;
- Connection established.

### Machine status:

- Current state of the machine (idle, manual, automatic, etc.)

### Smartwatch status:

- Page on which the smartwatch is displayed (voice commands, measurement, settings)

The name of the programme that is currently being used on the machine is also displayed.

## FUNCTIONS

### Voice Commands

The voice command interface is the main function and is instantly available when launching the app. Once connected to the machine, voice commands can be sent and visual and audio feedback is given indicating that the command has been sent correctly.

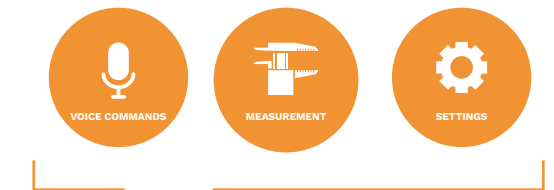
Images can also be seen on the smartwatch display, and the machine can send them to the operator to assist in production management.

The machine can even send alarm messages or alerts to the smartwatch, which appear on the display in real time in the dedicated area.

## Measurement

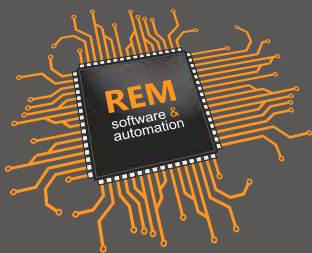
The app can manage machine-specific functions.

By programming and using the integrated sensors, this action can be customised according to the type of machining and the machine being used, for example to measure the bend angle.





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