



re360

360 degree overview – in real time

The new Manufacturing Execution System from EREMA

CHOOSE THE NUMBER ONE.

EREMA[®]
PLASTIC RECYCLING SYSTEMS

From the machine to your desktop.

Data transparency in real time.

If you have the overview, you can make decisions. A fast overview means: faster and better decisions. re360 supports you ideally in the process. This is because the new Manufacturing Execution System (MES) from EREMA provides you with production and machine data at the press of a button directly on your desktop. Regardless of whether you have one, two or a dozen machines. And regardless of whether they are EREMA recycling machines or film or other plastics production facilities.

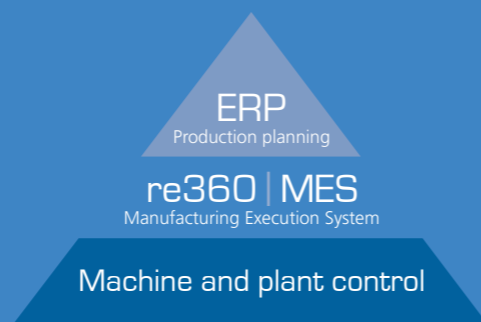
Take advantage of the information lead you gain from clear, real-time data to make sure that everything is running smoothly in your production processes. And to make sure that you can react quickly to deviations from plan at short notice, too.

Look back for a sharper future focus.

re360 can, however, do much more. This is because it is also a perfect analysis tool. Thanks to the long-term storage of your production data you can look back over weeks, months and even years – to establish trends and important findings for future decisions and optimisation. For more quality and productivity at your production facility.

Benefits

- **Transparency instead of data overload:** perfect overview from your desktop, data in real time, top visualisation with different depths of detail
- **Increase productivity:** make better use of machine capacity, raise throughput, reduce waste, lower downtime and identify its causes more quickly
- **Continuous quality:** recipe management, fast identification of deviations, continuity in maintenance work, comparison between different locations
- **More data security:** documented quality data, centralised storage of know-how
- **Optimise production and workflow processes**
- **Greater flexibility:** faster remedial action in the event of deviations from plan
- **Strong customer focus:** interconnection of the individual re360 modules with the individual customer order, strengthening of long-term customer relationships by securing constant, customer-specific (repelletised) quality



The MES links ERP with machine level



Benefits at all levels.

re360 is ideal for:

Managing directors, operations managers, quality officers, machine operators, service and maintenance engineers

The re360 modules at a glance
Interconnected with the individual customer order



re360Monitor
Transparent production in real time: all machines, all data



re360QuickBoard
Key information at a glance. Decisions can be taken immediately



re360Quality
Quality assured – and documented



re360Setup
Ready to start in no time: recipe management with the additional bonus

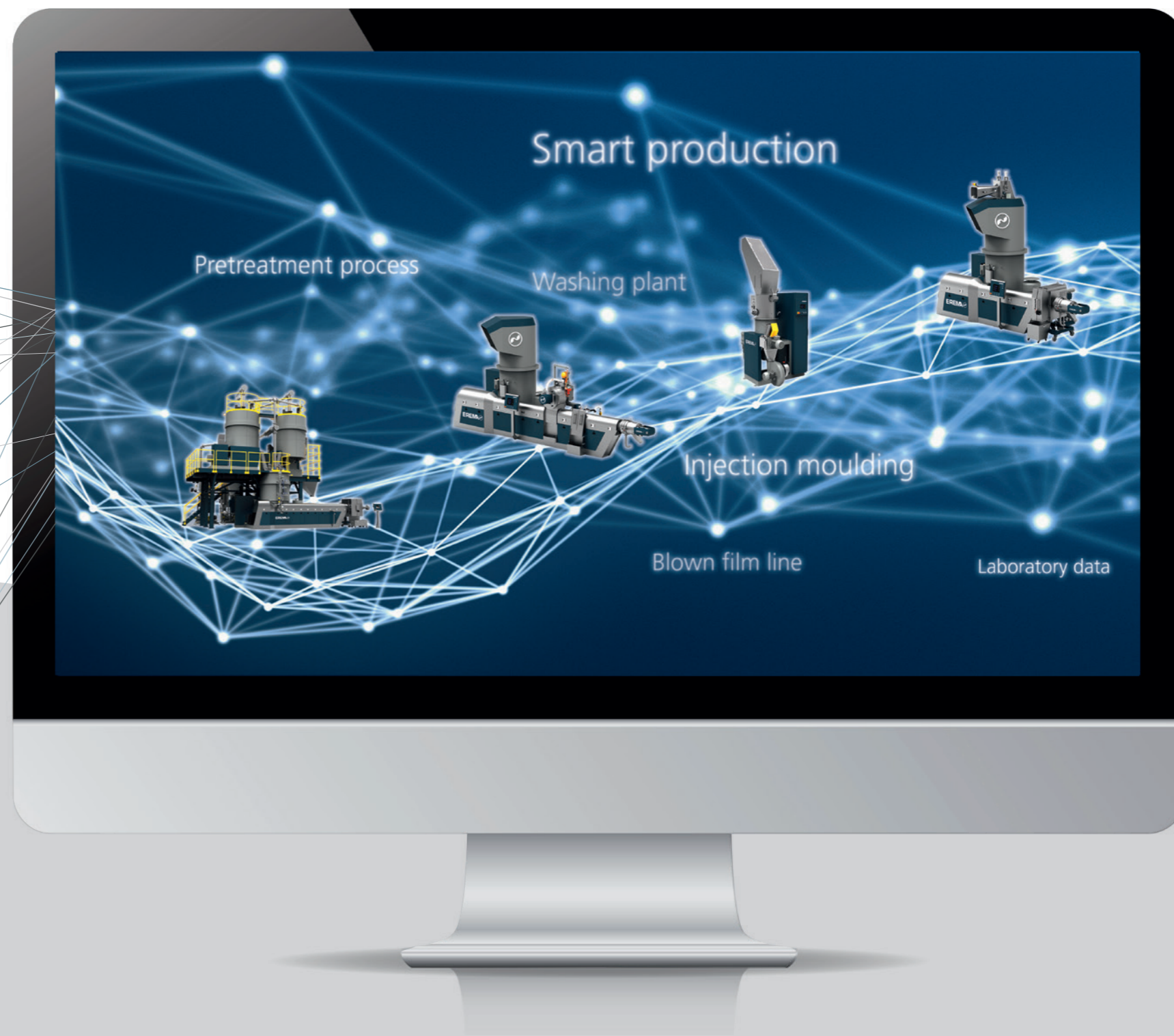


re360Maintenance
Maintenance work under perfect control



re360Planning
Clear planning guaranteed*

*Available from summer 2017



re360Monitor

**Transparent production in real time:
all machines, all data.**

What is the throughput of recycling machine 3 at the moment? Is the recycled pellet production of machine 4 still according to plan? What is the current production status of the film plant? And how high is the process temperature of machine 6 right now? The re360Monitor module answers all these questions and many more for you at the press of a button.

View the production and process data of every individual machine in real time on your desktop, obtain information updates on the machine's current operating status or find out what maintenance tasks or checks are due to be carried out.

- **High-performance production and process data acquisition** for any number of machines.
- **Information in real time:** up-to-the-minute production data (e.g. throughput, current order/customer), process data (e.g. temperature, mass pressure, speed), machine operating status, specific energy consumption (kg/kWh), etc.
- **Practical layout view:** clear visualisation of all machines, live projection on a large screen possible in the production building
- **Current machine monitor display** mirrored on PC in real time
- **Production run recorder:** graphical time pattern of production status and machine operating status
- **Alarm history,** set value changes, order information and much more



Fast overview in real time

Current status of every production machine

Production status: - Production - No production - Start/stop - Run empty	Machine status: - Manual - Automatic - Malfunction - Offline	Downtime reason: - Production end - Material change - Maintenance - etc.
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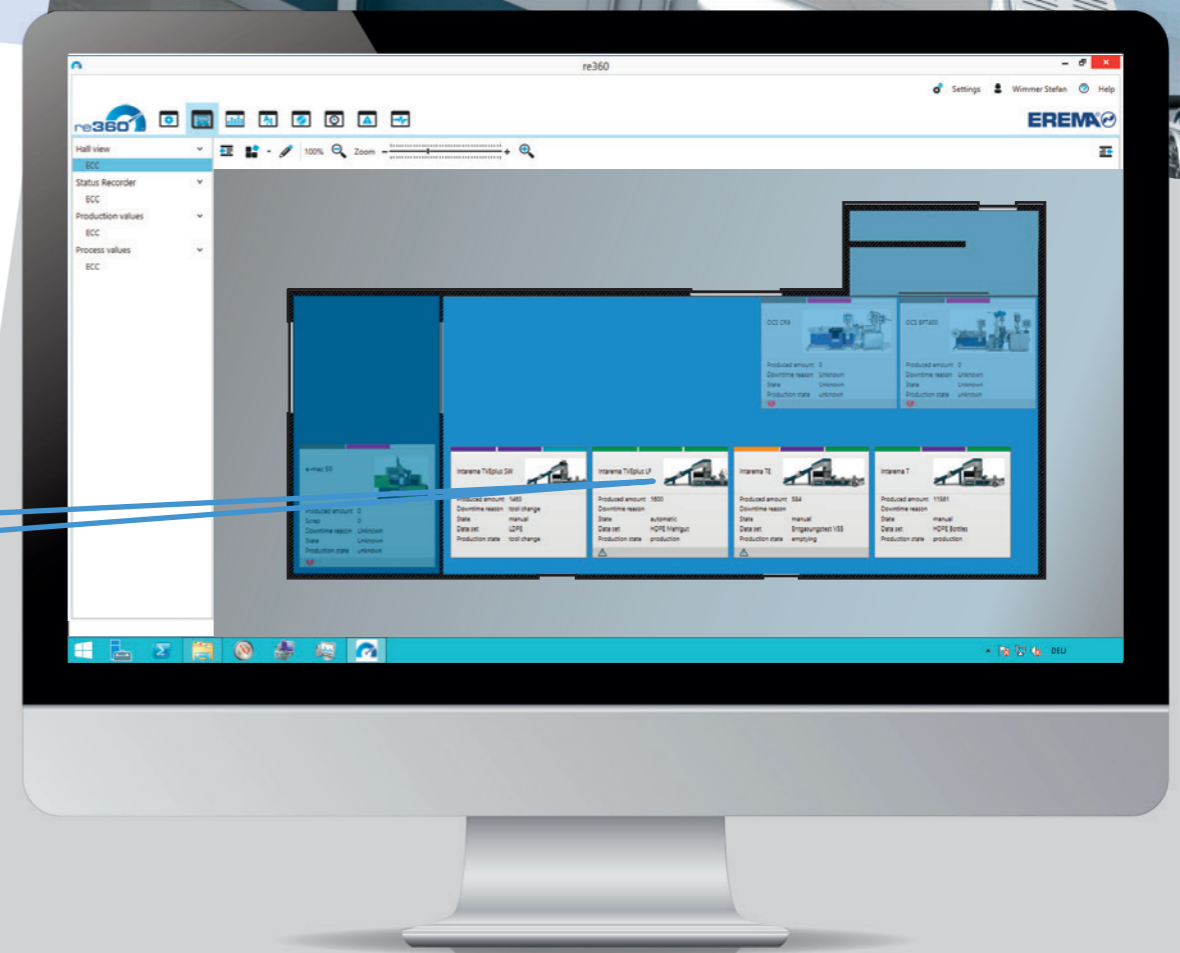
Produced amount	1600 kg
Downtime reason	-
State	automatic
Data set	HDPE regrind material
Production state	production

Display of maintenance tasks and checks
 What maintenance tasks are imminent?
 What checks are to be carried out next?



SPARE PARTS REQUIRED?

Order components easily and conveniently by linking up with the new EREMA online spare parts catalogue



re360 QuickBoard

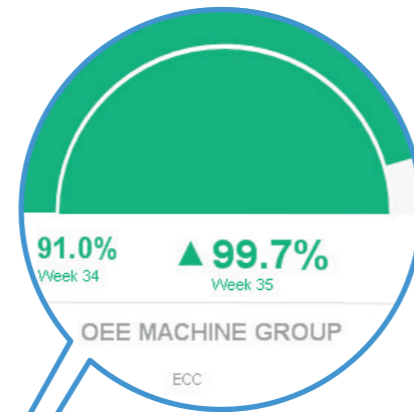
Key information at a glance. Decisions can be taken immediately.

The re360QuickBoard gives you the perfect overview. All you have to do is press a button to obtain relevant and current key performance indicators (KPI) such as overall equipment effectiveness and quality rates.

Make better decisions

The QuickBoard enables you to have fast and clear analyses whether it is for special shifts, orders or different locations of your company. You also have up-to-the-minute information at all times on any production downtime and the reason for it. This tool helps you to make better and more specific decisions. For more quality and productivity at your production facility.

- **Quick overview** of key performance indicators (KPI): overall equipment effectiveness (OEE), including utilisation rate, performance rate and quality rate (premium grade, technical grade)
- **Statistics and analyses** of shifts, weeks, months, years, locations for individual machines or machine groups downtime and reasons for it
- **Effective business intelligence (BI)**, interdepartmental figures, access to multiple data sources
- **Valuable help when making investment decisions** as figures can be compared (e.g. at different locations)



OEE: fast overview, fast comparison
Current week vs previous week's performance



re360 Quality

Quality assured – and documented.

re360Quality records dozens of quality-relevant values for you all the time, informs you by email if they fall below or rise above the defined limits and show you the data collected in a clear form.

Your specifically defined quality becomes comprehensible and reproducible

This enables you to identify trends and deviations easily and you can optimise your processes in good time. re360Quality thus makes a valuable contribution to assuring the quality and consistency of your processes and products.

- **Comprehensive recording and long-term archiving** of all target and actual process data values (e.g. temperature, mass pressure, speed) and quality data (e.g. MVR, colour)
- **Monitoring of defined maximum and minimum limits**, including automatic email notification if crossed
- **Straightforward data analysis thanks to clear visualisation:** quick switching between general and detailed view and between graphical and statistical table view
- Additional bonus: **perfect documentation of quality samples**
- **Identify trends**, process optimisation in good time
- **Reduce energy costs:** makes the energy consumption of the machines visible – therefore ideal to derive energy-saving measures
- **Generate quality certificates** (e.g. as PDF documents)
- Supports the **continuous improvement process (CIP)** in your company
- Ideal tool to **ensure data traceability** / support mandatory documentation



Strong duo: re360Quality & QualityOn

Thanks to the integration of QualityOn, quality data such as colour and MVR are measured continuously and directly in the ongoing recycling process and transferred immediately to re360Quality for perfect data visualisation.

See QualityOn brochure for more details

Jochen Zweckmayr, process engineer

“ If you want to secure quality and keep processes stable you have to keep an eye on a number of indicators. With re360 the required amount of data is processed in a clear way. And this makes work much easier! ”



re360Setup

Ready to start in no time: recipe management with the additional bonus.

Which machine settings lead to the best result in the current application? re360Setup has the answer. With the practical recipe management it is remarkably easy to take advantage of previously saved setup data. So you are clear to start faster with new orders and ensure the reproducibility of the customer's specified quality in repeat orders.

- Save, archive and visualise recipes (collections of settings) easily and, if required, transfer them online to the machine from the centralised management system
- Manage any number of **versions of a recipe** (e.g. LDPE film Version 1, Version 2, etc.)
- Analyse and optimise different recipes easily – **a significant contribution to quality assurance and improvement**
- Fast identification of the right recipe version thanks to **practical comparison function** (shows different parameters of similar recipes in a clear format)
- Protect valuable know-how through centralised data storage
- **Change logbook** makes it clear who changes which parameters
- Approve or block recipes thanks to **authorisation system**

What is the same, where is the difference?
Compare the "ingredients" of similar recipes quickly

%	101	→	%	101
rpm	100	→	rpm	100
%	50	→	%	50
°C	25	→	°C	100
°C	25	→	°C	100
°C	25	→	°C	100
°C	0	→	°C	100

Ernst Meindl, machine operator

“ This tool is really practical! I get the stored processing parameters from the recipe management system by simply pressing a button and can start immediately with production. It really saves time! ”

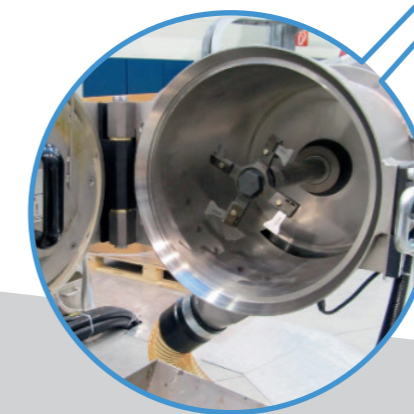


re360Maintenance

Maintenance work under perfect control.

Never forget maintenance again: this tool reminds your maintenance personnel in good time and gives them a step-by-step guide of exactly what they have to do – in a clear and easy to understand way, directly on the re360 panel of the machine. re360Maintenance makes for continuity in maintenance work and is thus an integral part of quality assurance.

- Fully automatic monitoring of maintenance intervals
- Stored maintenance plans – an important tool for quality assurance in production
- Fully automatic monitoring of maintenance intervals
- No maintenance is forgotten: warning limits remind maintenance technicians about pending maintenance work
- Clear and transparent maintenance structure, maintenance tasks are plannable
- Documentation of maintenance work, proof of maintenance or certificates (e.g. as PDF documents) possible



Andreas Brych, maintenance manager

“ re360 is like a navigation system which enables us to reach our goal quickly and safely: it informs our team automatically when maintenance work is to be carried out and guides us through the individual tasks step by step. ”



Headquarters & Production Facilities

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