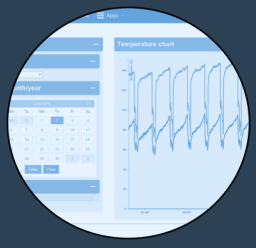
WG-PERFORM: MANAGEMENT DATA



Wilgengroep B.V.
Wilgenweg 8c
2964 AM Groot-Ammers
The Netherlands
info@wilgengroep.com
T. +31(0)184 600 233

WG-Perform: management data

Have you always wanted to know how efficiently your machinery works?

With dryer analysis from Wilgengroep as part of WG-Perform (the analysis portal for heavy duty laundries), you measure factors including the OEE (Overall Equipment Effectiveness), temperature, usage rate and amount of downtime. Besides that, you can apply this data to the processing machines in the clean items department, to gain data on the real-time performance of the dryers and, with that in combination with item tracking, to know what is on the way.

The Performance Dashboards allow you to measure the performance of your employees or machines. These performances are shown with the set norm for the workplace. By recording work and clock times, an active workplace can be linked to an employee or machine. This gives an overall picture of the laundry process, and the combination of that with our cloud-based management dashboards offers you handles that allow you to optimize your process even further!

1. Dryer analysis

- *Quick Overview*
  The quick overview dashboard provides quick insight into the current status of the dryers. Putting the screen with Performance Dashboards in the laundry provides a means to apply extra control over the process. The dashboard provides a clear picture of current capacity, displayed as active, standby and down times.

- *Heat map*
  The heat map provides insight into the behaviour of a dryer compared to the norm. Intelligent Norm Determination continuously monitors the behaviour of a dryer and how it relates to the set norm.

- *Temperature logging*
  Temperature logging (infrared) shows the drying process per item per hour, in detail. That makes it easy to detect abnormalities quickly. To make comparison possible, the collected data is stored and used when determining the norm.

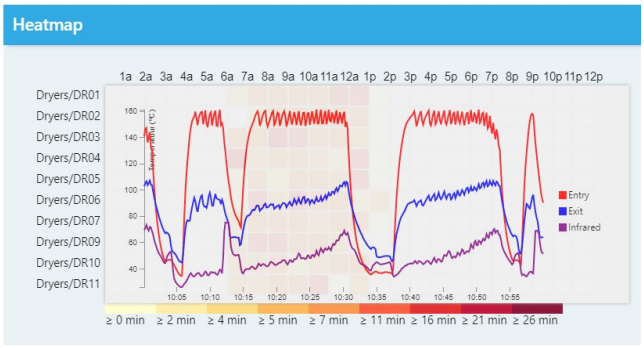
2. Performance dashboard

- Machine performances
  The performance norms are determinable for each machine. Linking all this data gives an overall picture of the machine's performance in relation to the norm.

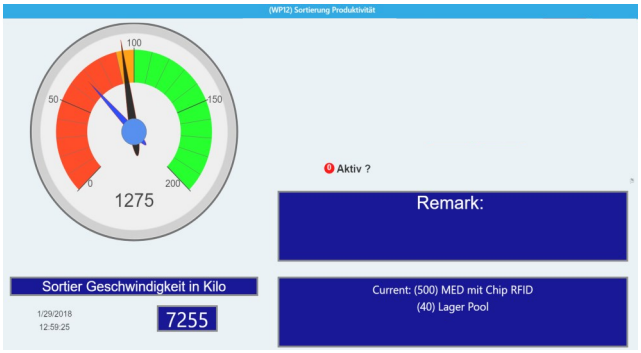
- Employee performances
  Linking an employee to a workplace and letting him or her clock in and out makes it possible to determine performance norms. Linking all this data gives an overall picture of the employee's performance in relation to the norm.

WE CREATE HIGH QUALITY
INDUSTRIAL LOGISTICS WORLDWIDE

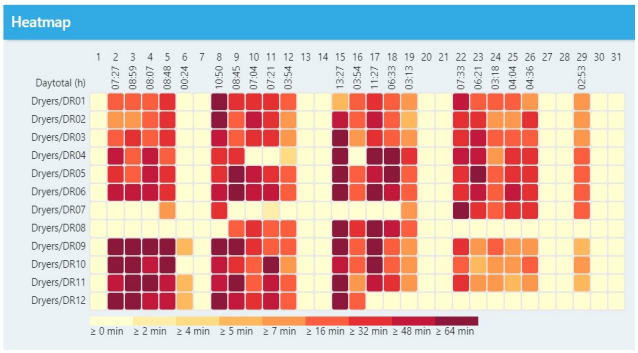
Overview the goals of production improvement.



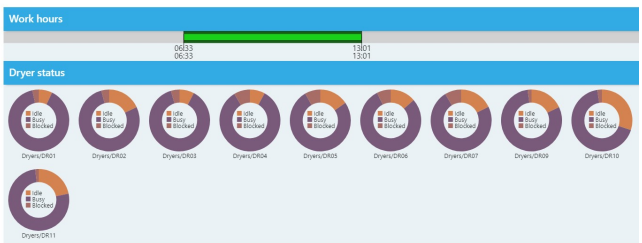
Temperature graphs give a detailed view on the flow of the dryers.



Performance Dashboards show the current goals and more.



The dryers comparison provides you information on efficiency.



The status dashboard provides an overview on the current status.

3. Management dashboard

- *OEE (overall equipment effectiveness)*
  The OEE dashboard shows an overview of the statuses of a machine. Visualizing these statuses provides a clear picture of the percentage of the measured time that the machine has been in production, on stand-by time and subject to a malfunction.

- *Travel time bags*
  To gain insight into how long it takes to unload an item in the clean items department, the travel-time dashboard offers an overview and details of the items in a certain category or at an unloading point that take longer to unload, and thus facilitates further process optimization.

- *Dryer analysis*
  Additional management dashboards combined with the dryer analysis provide an overview of the dryers' performance, based on average values. For example, the average drying time in the trend line and forecast dashboard is displayed so that earlier actions can be assessed and the drying times can be examined, using the dot dashboard.

- *Productivity*
  A machine's performance is shown on the productivity dashboard. Numbers on machine or workplace levels are shown in groups. At the detailed level, the dashboard shows how the performance relates to the set norm and the processing of the different processed categories as a percentage.

- *Time registration*
  By activating and deactivating a workplace and linking it to an employee, information can be collected about his or her performance. This information can be used when scheduling employees for different workplaces, to allow effective planning based on the expected influx of laundry and previously recorded performances.

- *Faults and error messages*
  Optimum maintenance is required to keep your machinery running as well as possible. The faults and error messages on the dashboard will give you quick insight into the most common faults and error messages. Examining and optimizing these faults and error messages will allow you to ensure that your machinery is maintained and your process improved.

- *Consumption meters*
  The consumption meters make the gas and electricity consumption of your machinery transparent and you can use that combined with machine specific dashboards to allow you to identify process improvements quickly. Measuring at multiple points (global and machine specific) also allows you to notice losses, e.g. power leakage or air pressure loss, outside of production, and thus optimize your machinery further.