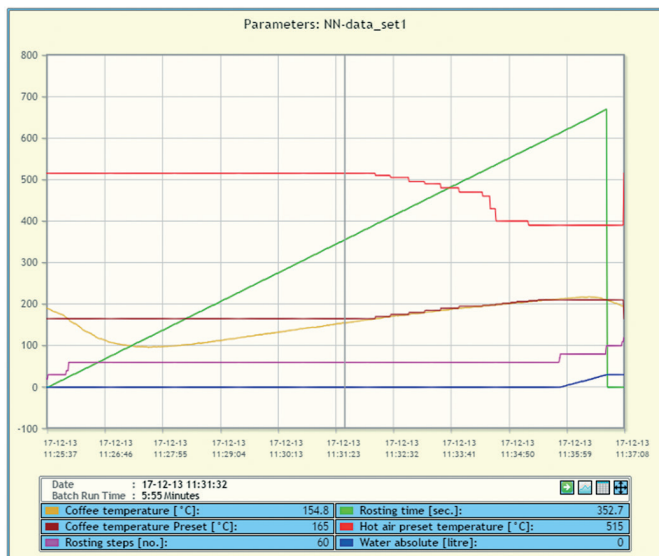


## QUALITY MANAGEMENT FOR RFB AND DRUM ROASTER

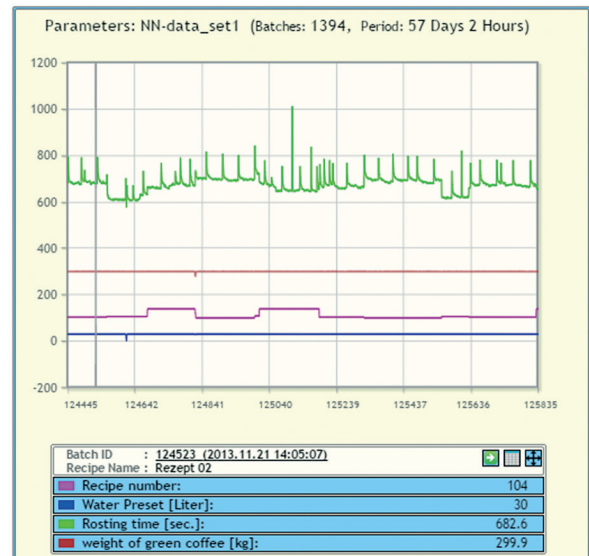
*This Quality Management software by NEUHAUS NEOTEC – one of the world’s leading manufacturers of coffee systems – is a network-based system for quality assurance of the roasting process. The expected roast profile is recorded and archived together with the actual roasting data (set value and actual value). This system can be installed for new roaster as well as an option for already installed roasters.*

| Batch ID | Begin               | End                 | Duration              |
|----------|---------------------|---------------------|-----------------------|
| 125296   | 17.12.2013 11:25:37 | 17.12.2013 11:37:11 | 11 Minutes 34 Seconds |

| Parameter                   | Minimum | Maximum | Average |
|-----------------------------|---------|---------|---------|
| Recipe number               | 101     | 140     | 112.03  |
| Water Preset [Liter]        | 1       | 30      | 29.97   |
| Rosting time [sec.]         | 576.3   | 1009.5  | 675.81  |
| weight of green coffee [kg] | 279.7   | 300.5   | 299.78  |



Single Batch



Comparison of batches of target specifications and finished data

### Innovative Quality Assurance in Production

The roasting data of the produced roasted coffee are stored by batch on an industrial computer and, if required, they are displayed on the company-wide browser and evaluated. The roasting process is thus recorded absolutely seamlessly and transparently for sustained examinations and the results are archived.

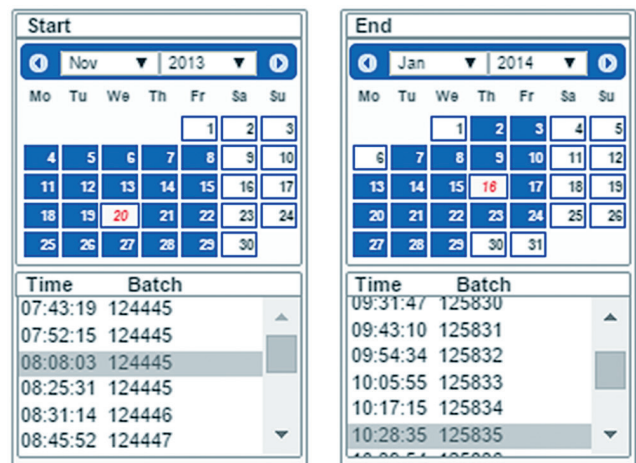
## PRODUCT ADVANTAGES

- » Serves for the complete and seamless traceability of the set and measured data in the roasting process
- » The production data are archived batch precisely, in addition recipe numbers, respectively coffee types can be entered
- » Tamper-proof logging of any data, no manipulation is possible
- » Overlapping of up to 1000 curve data in one chart
- » All data visible with one-click operation
- » Software system-independently applicable in virtual computer environments, especially developed for Siemens control systems
- » Customized adjustments possible

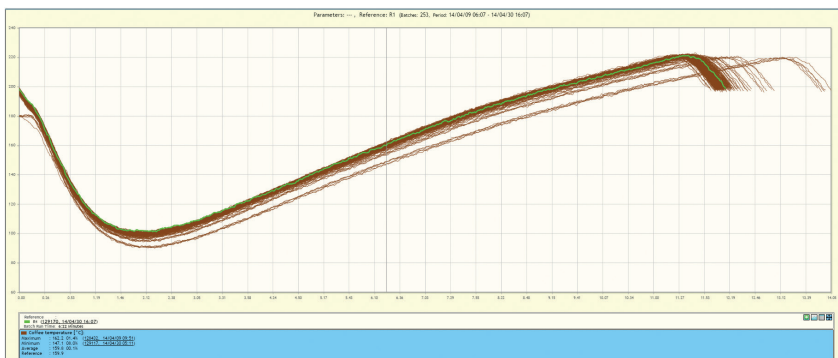
### Batch Selection Window

The selection of batches is done via time period or batch number.

- For each batch the operator can enter any additional information and laboratory reports can be attached.
- The batch data can be exported as PDF, CSV or Excel files.
- Various registered users can use the data evaluation simultaneously with different levels of access rights.
- Individually selected measuring data can be compiled as one set in one chart.



Selection of batches by date or batch no.



Batch overlapping of process values

- Via the zoom function the values of one single batch are displayed.
- Batch overlapping shows the comparison of the reference curve and the selected actual values, thus offering the optimum documentation of the complete roasting process.