

**WE  
PROCESS  
THE  
FUTURE**

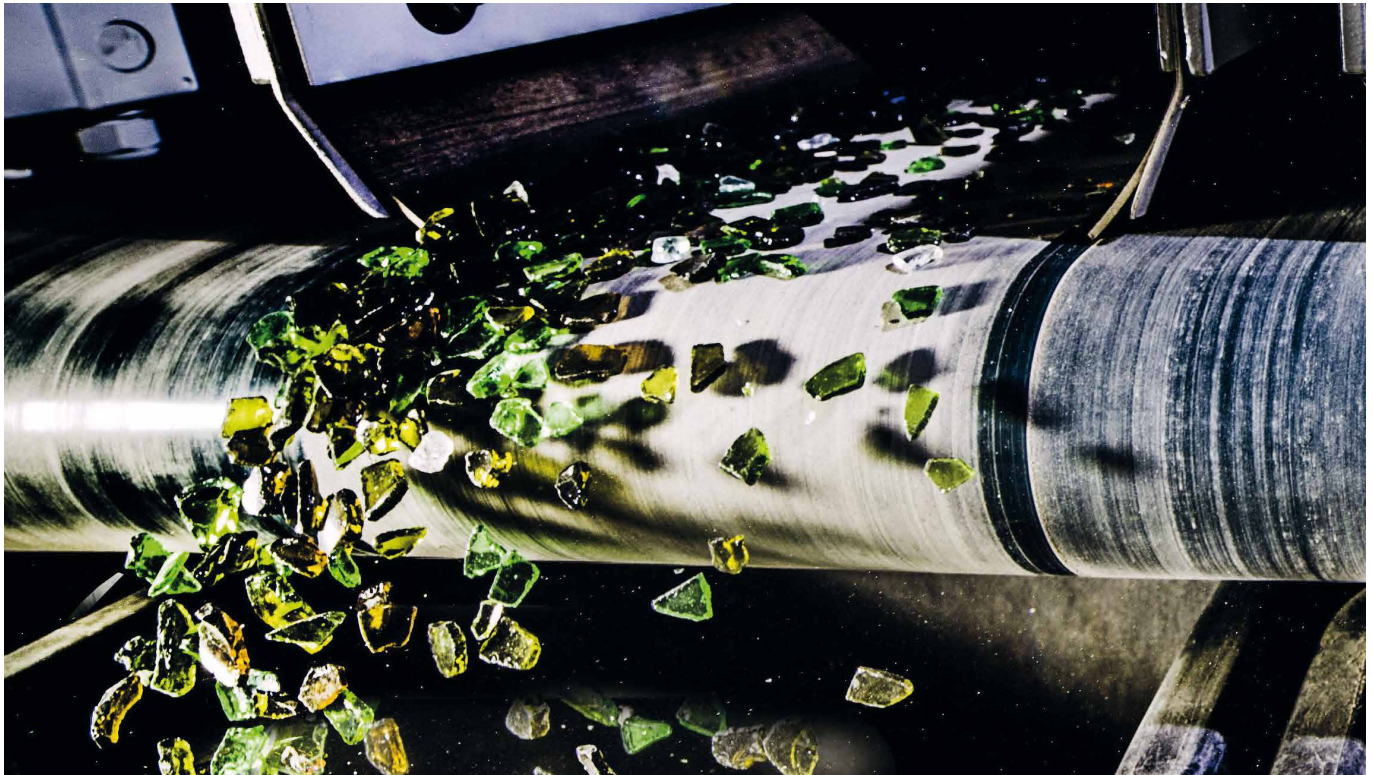
**binder+co**



**CLARITY QC**  
**AUTOMATED QUALITY CONTROL**  
**FOR YOUR CULLET**

# CLARITY QC SAMPLING – ANALYSIS – EVALUATION OF YOUR PRODUCTS

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- 1 **Feed hopper\***: Collects sample material
  - 2 **Discharge vibratory feeder\***:  
Ensures consistent feeding into the dryer.
  - 3 **Dryer\***: Dries the sample for optimal analysis results.
  - 4 **Flap**: Allows material to bypass the analysis unit if required.
  - 5 **Screening and distribution feeder\***:
    - Separates fine particles
    - Classifies the sample into different grain size fractions.
  - 6 **Infeed vibratory feeder**:  
Distribution and controlled material feed for optical analysis.
  - 7 **CLARITY – Optical analysis & discharge of contaminations**:
    - Glass, CSP (ceramics, stones, porcelain), glass ceramics, lead glass, ferrous and non-ferrous metals
    - Recording of grain size distribution, color and material statistics
    - Trend analysis for process optimization
  - 8 **Sample collection container with weighing system**:
    - Automatic weighing of the good product
    - Return to the product flow.
  - 9 **Container for ejected material with plate scale**:
    - Collects false colors or material rejects for further inspection.
    - Manual emptying possible.
  - 10 **Flap**:  
Enables collection of a product sample for quality control or calibration (optional program).
  - 11 **On-site control cabinet**:
    - Touch panel
    - Creation and export of analysis reports
    - Standardized OPC-UA interface
- Laboratory PC\***:
- Input of lab values
  - Pre-installed analysis software
  - Save, print, and export reports

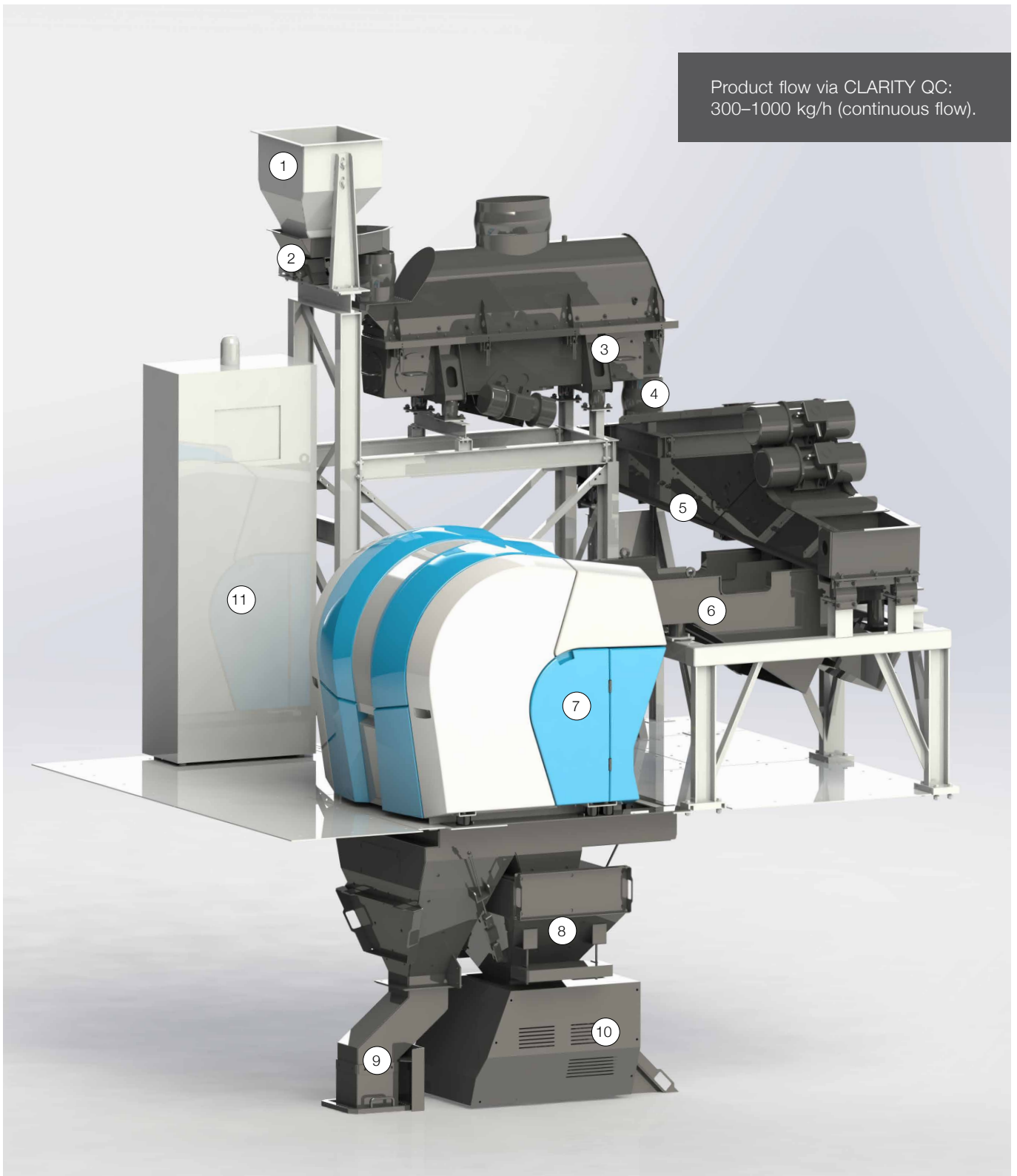
\*Optional Units

Sampling is done by a pneumatically controlled discharge flap (optional; not shown).

With Binder+Co's CLARITY QC, you get an intelligent, automated solution for analyzing your product streams. The system evaluates the quality, composition, and properties of your

samples in real time - as part of your line or in stand-alone operation. This gives you a constant overview of the quality of your products and ensures efficient and stable processes at all times.

Product flow via CLARITY QC:  
300–1000 kg/h (continuous flow).



**HOW TO PRODUCE THE HIGHEST QUALITY CULLET -****WITHOUT RISKING PRODUCTION ERRORS, REJECTIONS, AND COSTLY DOWNTIME:**

- **Fully automated material analysis:**  
Efficiently analyzes large sample volumes with consistently accurate results.
- **Continuous product monitoring:**  
Real-time evaluation of key parameters like grain size, weight, color, and material composition.
- **In-process quality assurance:**  
Immediate correction of deviations increases productivity and maintain high-quality standards.
- **Reliable data evaluation:**  
Automation ensures objective, and consistent, results.
- **Early warning system:**  
Automatic alerts when predefined thresholds are exceeded or not met – enabling fast intervention.
- **Increased efficiency through data analysis:**  
Detailed insights enable targeted improvements across your plant.
- **Customer certification:**  
Analysis reports serve as proof of quality – building trust and strengthening long-term relationships.
- **Impurity detection and removal:**  
Impurities are identified and sorted out for further analysis – supporting continuous improvement.

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RELIABLE  
CRUSHING



EFFICIENT  
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WET  
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BAGGING  
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