

REDWAVE[®] CX

OPTICAL SORTING MACHINES
FOR GLASS RECYCLING



HIGHLIGHTS:

- Flint glass sorting based on chemical composition
- Smart sorting intelligence based on color, shape and transparency
- Statistical evaluations and analysis of input and output material



REDWAVE CX

Glass recycling's most versatile sorting machine



APPLICATION

SORTING OF:



RECOGNITION OF IRON OXIDE LEVELS IN FLINT GLASS:

Low iron oxide glass is the highest quality flint glass. It's not always possible to determine the iron oxide content on the basis of discoloration in the glass. REDWAVE CX sorts flint glass based on a wide range of qualities despite the difficulty of determining the iron oxide content in discolored glass.

HIGH SENSITIVITY
Iron oxide content: < 400 ppm



Passing material / Ejection

MEDIUM SENSITIVITY
Iron oxide content: < 650 ppm



Passing material / Ejection

LOW SENSITIVITY
Iron oxide content: < 900 ppm



Passing material / Ejection

REJECT OF:



*CSP = Ceramics, Stone & Porcelain



Recognition with REDWAVE XRF

REDWAVE CX ADVANTAGES

- Superior material recognition (e.g. dark glass, iron oxide content, glass ceramics)
- Cost-saving separation of impurities with only one sorting machine (e.g. separation of glass ceramics together with CSP and metal)
- Programming dexterity allows one machine to be assigned various sorting tasks lowering costs and saving energy (e.g. different cullet sizes or different colors).

Iron oxide recognition

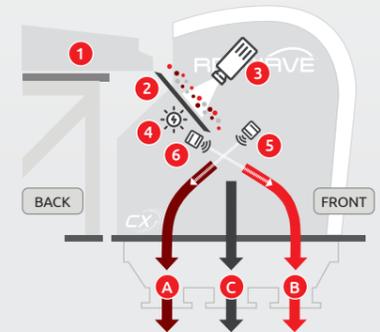
- INCREASE OF QUALITY AND PROFIT**
With REDWAVE CX, different qualities of flint glass can be produced (e.g. a flint glass quality with an iron oxide content < 400 ppm). This makes it possible to produce the highest flint glass quality and customised combination, which in turn increases the use of cullet, and offers a valuable contribution to the cycle.
- EXPANSION OF THE CUSTOMER PORTFOLIO**
Different qualities of flint glass opens up new possibilities for glass processors.

Dark glass recognition

- PRODUCTIVITY RATES**
Glass loss in plants is reduced, and the recovery of marketable glass product is expanded, leading to an increase in plant productivity rates.
- UPGRADE**
A retrofit kit is available to existing REDWAVE CX users supporting a system upgrade to improved technology at low cost.
- GLASS RECOVERY**
Establishing a stand-alone downstream stage for the recovery of dark glass pieces from the CSP waste of existing plants.

REDWAVE CX

OPERATIONAL PRINCIPLE



- Vibratory feeder
- Glass slide
- Camera unit
- LED light source
- Valve and nozzle installed at the front
- Valve and nozzle installed at the back
- A Ejection A (front)
- B Ejection B (back)
- C Pass (negative sort)



LOCATIONS



1 HEADQUARTERS AUSTRIA

REDWAVE
office@redwave.com

2 SUBSIDIARY GERMANY

REDWAVE Waste GmbH
office-germany@redwave.com

3 SUBSIDIARY USA

REDWAVE Solutions US LLC
office-usa@redwave.com

4 SUBSIDIARY SINGAPORE

REDWAVE Solutions Pte. Ltd.
office-singapore@redwave.com

5 SUBSIDIARY CHINA

REDWAVE Environmental Science &
Technology (Shanghai) Co. Ltd.
office-china@redwave.com



REDWAVE, a division of BT-Wolfgang Binder GmbH, Wolfgang Binder Str. 4, 8200 Eggersdorf bei Graz, Austria
Tel.: +43 3117 25152 2200, E-Mail: office@redwave.com, www.redwave.com