

REDWAVE CX

HIGH PERFORMANCE REMOVAL OF
IMPURITIES AND COLOUR SORTING

REDWAVE®



OPTIMISED SORTING OF DARK
GLASS AND INTELLIGENT OBJECT
RECOGNITION TECHNOLOGY



REDWAVE[®] CX

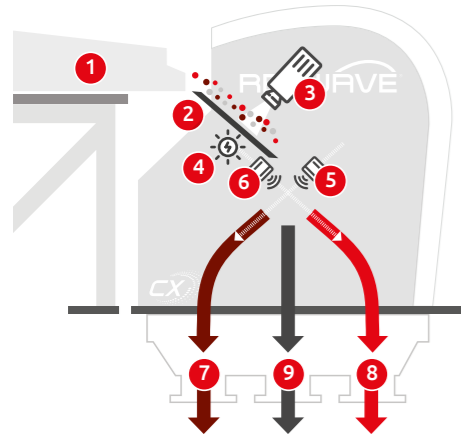
The **new generation** of intelligent **glass sorting**



POWERFUL 2-WAY AND 3-WAY SORTING SYSTEMS WITH IMPROVED RECOGNITION TECHNOLOGY

The unique 3-way design enables equally high efficiency for both the first and the second ejection. With one ejection on the front and one on the back, the distance between the material scan and the ejection is the same for both sorts. This concept, in combination with the improved, independently developed camera and lighting technology as well as the associated sorting software, enables an unprecedented high detection rate. The powerful valve and nozzle arrangement allow compact sorting systems with fewer sorting steps.

OPERATIONAL PRINCIPLE



- 1 Vibratory feeder
- 2 Glass slide
- 3 Camera unit
- 4 LED light source
- 5 Valve and nozzle arrangements on the frontside
- 6 Valve and nozzle arrangements on the backside
- 7 Ejection A (front)
- 8 Ejection B (back)
- 9 Pass (negative sort)

TECHNICAL SPECIFICATIONS

Data	REDWAVE CX for coarse material	REDWAVE CXF for fine material	REDWAVE CXP for fine material
Sorting width	500, 750, 1000, 1500 mm		750, 1500 mm
Sensor technology	High-resolution camera		Near-Infrared
Light source	High power multispectral LED light		
Valves	240 valves for 1500 mm sorting width	240 valves for 1000 mm sorting width	240 valves for 1000 mm sorting width
Valve and nozzle spacing	6 mm	4 mm	4 mm
Sortable fraction	6 bis 50 mm	2 bis 12 mm	3 bis 50 mm

Throughput up to 16 t/h



THE ENHANCED INTELLIGENT SORTING & RECOGNITION TECHNOLOGY

Up to now dark and thick glass pieces could not be distinguished from CSP due to low transmission value and were ejected along with the CSP reject stream. The sorting of dark glass will significantly reduce the amount of glass loss and increase the productivity rate of the plant.

HIGH QUALITY DARK GLASS can be recognized. Productivity and output increases.



CSP REJECT STREAM (Ceramics, Stone and Porcelain) will be reduced and disposal costs decrease.

HIGHLIGHTS

HIGHLIGHTS

REDWAVE CX - Pioneering new camera technology combined with an optimized light source enables the detection of difficult materials.

The advantages of REDWAVE technological improvements:

- **PRODUCTIVITY RATE**
The loss of glass in facilities will be sustainably reduced and recovery rate will be increased. This leads to an increase in the productivity rates of the sorting plants.
- **EXISTING REDWAVE CX UPGRADES**
A retrofit kit is available to existing users of REDWAVE CX and REDWAVE CXF sorting machines to expand them cost effectively and to include the improved technology.
- **GLASS RECOVERY FROM CSP STOCKPILES**
Development of an independent post-stage for the recovery of dark glass pieces from the CSP waste of existing plants.



SORTING OF:



REJECT OF:



*CSP = Ceramics, Stone & Porcelain



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-us@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