

DE BEERS GROUP

IGNITE™

CDX 118CD and CWX 118CD MK2 Dual Wavelength X-ray Sorters

APPLICATION

Free fall, X-ray sorter, single pass, single input, Primary bulk recovery; and Re-concentration applications; Material size range (-32mm + 1mm) split at appropriate ratio and feedrates. Material feed application wet or dry.

FEATURES AND SPECIFICATIONS

- Eight channel photo multiplier detection system
- Manual or automated inlet chute gate options available
- Robust air ejector system
- Modular, compact, robust, ergonomic design (left and right hand variants available)
- Split cabinet design – heat exchanger cooled X-ray generator and power supply compartment
- Separate control and service panel configuration
- Single network interface for control and information
- Full maintenance support
- User friendly menu driven OTI and HMI
- Tracer catch trays for tracer tests

Maximum Throughput Capacity

Size range (mm)	Maximum feedrate (kg/h)
-2+1	825
-4+2	1275
-8+4	2100
-16+8	3450
-32+16	4500
Channel	8
Material size range	-32mm to +1mm

Wet or dry process



For more information contact De Beers Group IGNITE™
Cnr Crownwood and Booyens Reserve Roads, Theta, Johannesburg, 2013
Tel: +27 11 374-7333 Fax: +27 11 374-5333 E-mail: debtech@debeersgroup.com
<https://ignite.debeersgroup.com>

DE BEERS GROUP

IGNITE™

CDX 118CD and CWX 118CD MK2 Dual Wavelength X-ray Sorters

BENEFITS OF THE CDX 118CD and CWX 118CD MK2



- A smart Ascii bus safety and operational system (technical)
- Improved fault and alarm reporting system (technical)
- A simplified and ruggedized machine cabinet design for both simpler and easier machine maintenance (technical)
- Provision of more information for machine interrogation (technical)
- Single phase 220 Volt single power requirement versus the previous 400Volt 3 phase (technical and safety)
- An enhanced X-ray system design – reduction in weight and size (safety and reduced maintenance task time)
- Simpler plant integration design (technical)
- Removal of the gateway control cabinet (simpler system and reduced maintenance)
- On board PLC for simpler machine interfacing to the plant control system (simpler design)
- Remote machine diagnostics interrogation (technical support)
- 24 hour call center support (Faster maintenance question response)
- Digitalization opportunities (future)
- PC based high definition touch screen on board the machine with added functionality (technical)
- Additional metallurgical information and simpler machine set up options (Information)
- Improved maintenance and repair ergonomics (technical and support)
- Reduced number of purpose made components and simplified wiring where possible (ejector driver PCB and certain connector systems)
- Improved calibration jig design (machine availability advantage)
- The inlet chute is removable without removing the Autogate assembly (reduced maintenance task time)
- Internal feeder camera (security)
- Removal of the feeder can be done from the rear of the machine without removing any top mounted assemblies (reduced maintenance task time)
- On the CDX118CD dry machine only, a new lens cleaning system (maintenance)
- Advance thermal monitoring of the X-ray tube (safety)
- Lighting in the communication cabinet (safety)



For more information contact De Beers Group IGNITE™
Cnr Crownwood and Booyens Reserve Roads, Theta, Johannesburg, 2013
Tel: +27 11 374-7333 Fax: +27 11 374-5333 E-mail: debtech@debeersgroup.com
<https://ignite.debeersgroup.com>