

CDX113C and CDX116C X-ray Sorters

Application

Free fall, dry process, X-ray sorters, single input, Primary and Secondary Bulk diamond recovery. Coarse and fines feedmaterial applications (CDX113C -32mm +8mm) and (CDX116C -8mm +1mm).



Maximum Throughput Capacity:			
CDX113C		CDX116C	
Size range (mm)	Feedrate (kg/h)	Size range (mm)	Feedrate (kg/h)
-16 +8	2500	-2 +1	400
-32 +16	2500	-4 +2	800
		-8 +4	1700
Channel	3	Channel	6
Coarse material	-32mm +8mm	Middles and Fines material	-8mm +1mm

Features and Specifications

- ◇ Single or Dual wavelength technology (Dual wavelength technology available as CDX116CD)
- ◇ Six channel Photo Multiplier detection system (two per gravel channel CDX113C) and (one per gravel channel CDX116C)
- ◇ Modular, compact and robust design philosophy
- ◇ Split cabinet design – air cooled electronics compartment for operational stability and reliability
- ◇ CARP* functions optional:
 - Process cabinet door locks
 - Cabinet door security sensors
 - Surveillance video cameras
 - Wire interfaces to remote security monitoring & control system
- ◇ Dual network interface into PSS and SCADA / Plant PLC
- ◇ Full maintenance support
- ◇ User friendly menu-driven GUI (HMI)
- ◇ Dust extraction interfaces
- ◇ Tracer catch trays for tracer tests
- ◇ Comprehensive sort process data (histograms, background levels, ejection rates etc)
- ◇ Comprehensive process monitoring alarm list
- ◇ Remote / Local control capability

*CARP: Completely Automated Recovery Process

Benefits

- ◇ Maximum diamond recovery with minimum gangue material at high feedrates
- ◇ Spillage-free; low yields
- ◇ No cooling water required – compressed air X-ray cooling
- ◇ Self-testing and on-line calibration
- ◇ Built in diagnostics radically reduces downtime
- ◇ Operator and maintenance friendly
- ◇ Complete operator safety due to improved features
- ◇ Low-power consumption, single phase supply
- ◇ Low operating costs

