



BDT1170 — XRT Middles

The XRT Middles machine applies X-ray transmission technology to perform primary, secondary and first pass recon-sorting, in one pass. This provides a significant reduction in process complexity and recovery plant size.

The XRT Middles' advanced X-Ray detection system allows for effective sorting of mid to large-sized materials.

The machine offers greater wear resistance and extended component lifespan. Maintenance is quick and safe, due to easy access to components through multiple service doors.



APPLICATION

- ▶ Primary concentration of diamonds from run of mine material
- ▶ On belt detection X-ray transmission sorter
- ▶ Dry material application
- ▶ The technology may be applied in other mineral separation areas such as coal and iron ore
- ▶ Medium capacity (1.5 tons to 6 tons)
- ▶ Size: Treats -32+3mm dry material.
- ▶ Information: Provides real-time diamond and gravel information.
- ▶ Automation: Remote operation and support

ADVANTAGES OF TECHNOLOGY

- ▶ Efficiency: Recovers all diamond types including yellow and boart
- ▶ DBW: Insensitive to diamond luminescence or ore type
- ▶ Rate: Double the throughput of XRL machine
- ▶ Footprint: Reduced # of recovery units required

FEATURES AND SPECIFICATIONS

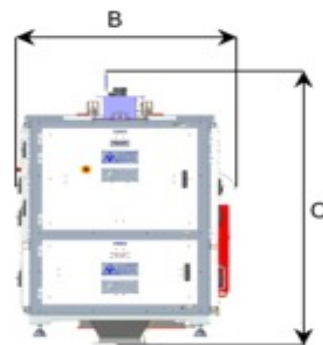
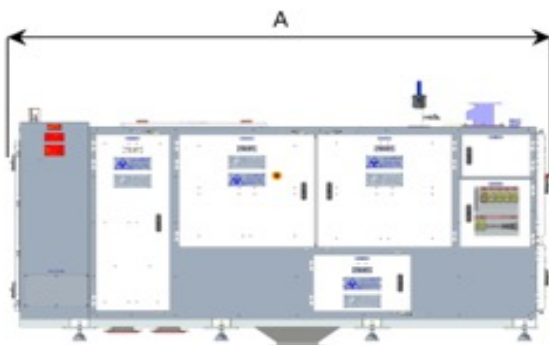
-2+1	825
X-ray Tube power	100 kV
Continuous X-ray tube current	2 mA
Size range	+3mm to -32mm
Sensors	Dual energy XRT detector
Power supply	3 Phase, 400 VAC
Weight (sorter)	Approx. 5500 kg
Yield	<0.005%
Recovery efficiency	99%

MAXIMUM THROUGHPUT CAPACITY

Size range (mm)	Feedrate (kg/h)
-4mm to +3mm	1500
-8mm to +4mm	2500-3500
-16mm to +8mm	5000
-32mm to +16mm	6000

INSTALLATION SIZE

A: 4000mm, B:1650mm , C: 2400mm
 6000mm* 3650mm*
 (*Sizes with the doors open)



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