

DE BEERS GROUP

TECHNOLOGY

XRT Coarse Concentrator Plus

APPLICATION

On belt detection X-ray Transmission (XRT) sorter. High capacity coarse DMS replacement. Dewatered material feed size range (-75mm + 8mm). Dry material application (-75mm + 6mm). The technology may have applications in other mineral separation such as coal, iron ore, etc.

FEATURES AND SPECIFICATIONS

- Dual Energy XRT detector
- Robust air ejector system
- Self contained services for easy deployment
- Full maintenance support and remote diagnostics
- User friendly menu driven control interface
- Tracer catch trays for tracer tests
- Provides online carat estimates and stone count values
- All diamond types are recovered, low luminescent, type II, yellow, bort, etc
- Built-in diamond security design
- Yield <0.005%



Maximum Throughput Capacity:

Size range (mm)	Maximum feedrate (ton/h)
-8 + 6	42
-16 + 12	84
-25 + 16	140
-32 + 25	224
-50 + 32	280
-75 + 50	400

Recommended size ratio $\leq 3:1$

BENEFITS

- Maximum diamond recovery with minimum gangue material at high feedrates
- Spillage free; ultra low yields
- Calibration and self-testing
- Operator and maintenance friendly
- Complete operator safety
- Low operating costs
- Ruggedised for remote applications



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