

DE BEERS TECHNOLOGIES

BDT1122

XRT Re-concentration or Single Particle Sorter

APPLICATION

Re-concentration or single particle sorting of diamondiferous material using X-ray transmission technology. Material size range (-32mm + 1mm). Dry material feed application. Diamond by weight of concentrate in SPS application typically in excess of 99%.



FEATURES AND SPECIFICATIONS

- Dual Energy XRT detector
- Robust air ejector system
- Full maintenance support
- 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, boart, etc
- Built-in diamond security design

BENEFITS

- Maximum diamond recovery with minimum gangue material at high feedrates
- Spillage free
- Calibration and self-testing
- Operator and maintenance friendly
- Complete operator safety due to improved features
- Low operating costs

Re-concentration

Size range (mm)	Maximum feedrate (kg/h)
-2+1:	10 kg/h
-4+2:	25 kg/h
-8+4:	50 kg/h
-16+8:	100 kg/h
-32+16:	150 kg/h

SPS (Available early 2017)

Size range (mm)	Maximum feedrate (kg/h)
-2+1:	1.25 kg/h
-4+2:	2.5 kg/h
-8+4:	4 kg/h
-16+8:	15 kg/h
-32+16:	30 kg/h