

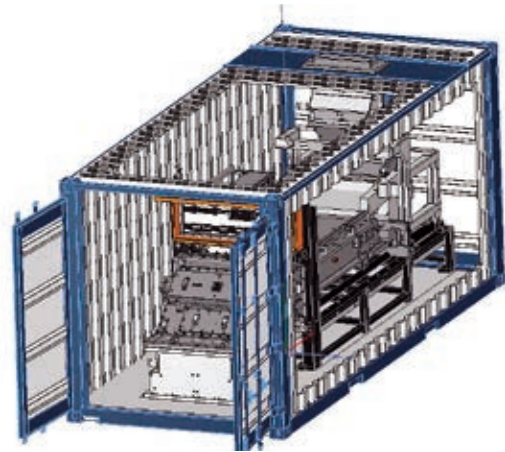
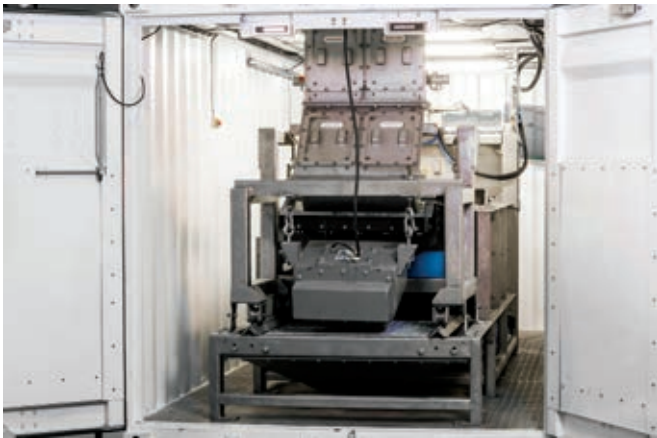
# DE BEERS TECHNOLOGIES

BWT1186

## High Throughput Coarse XRT Sorter

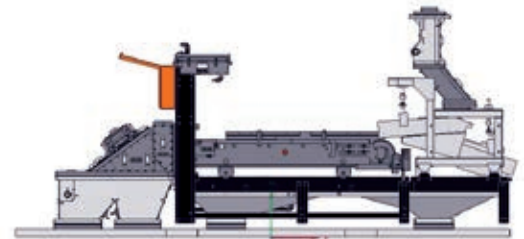
### APPLICATION

On belt detection X-ray Transmission (XRT) sorter. 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, etc.



### FEATURES AND SPECIFICATIONS

- Dual Energy XRT detector
- Robust air ejector system
- Containerised with services container for easy deployment
- Full maintenance support and remote diagnostics
- User friendly menu driven control interface and remote diagnostics
- 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



#### Maximum Throughput Capacity:

Size range (mm)	Maximum feedrate (ton/h)
-8 + 6	21
-16 + 8	42
-25 + 16	70
-32 + 25	112
-50 + 32	140
-75 + 50	200

#### 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 due to improved features
- Low operating costs

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## Product Technical Support

*De Beers Technologies, a division of De Beers Group Services, provides world-class diamond processing products and services across the globe. A large number of specialised technicians are employed in the Product Technical Support (PTS) function of De Beers Technologies to ensure that a high standard of product support is maintained.*

A number of functions are performed by the product support team throughout the product lifecycle. These include the provision of specialised skills during the manufacturing, assembly and testing of the actual products. Both factory acceptance, site commissioning and testing are performed with the clients to demonstrate the performance of the product in accordance with machines specification.

Formal operational and maintenance training is provided to metallurgists and technicians before and during machine hand over, whereas informal training and knowledge transfer take place during subsequent plant visits.

Scheduled inspections are performed on sorting machines to ensure a high standard of separation efficiency. These inspections also serve as a standardised plant audit that provides management with an unbiased view of the performance of the diamond recovery plant. De Beers Technologies technicians normally perform these duties alongside the plant technicians, to ensure that optimal knowledge transfer and training take place during these activities. Repairs can be performed as part of the service depending on the requirements of the client.

First level repairs are performed by mine personnel while PTS is geared to perform second level repairs. Certain modules or machine parts can be returned to De Beers Technologies for repair. De Beers Technologies personnel then liaise with mine personnel to determine whether to repair or replace an item. De Beers Technologies technicians also respond to occasional breakdowns on request from the operations.

Continuous improvement to the machine design takes place based on feedback from field technicians and end users. Unit life cycle management forms an integral part of the product development. Some De Beers Technologies-produced machines have been in operation for more than 20 years.

