

AMTAS PTY LTD

Mineral Processing & Materials Handling Equipment

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BULK SAMPLE PLANT - Model BSP-10

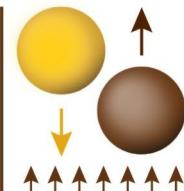


**Self contained, 10 tonne/ hour
- Mobile Bulk Sampling Plant**



**UMF - Winner of the
Australian 1987 BHP
Steel Award (primary
Industry category)**





Description

The UMF Bulk Sample Plant is an innovative design consisting of a completely self contained alluvial mineral processing plant. The plant has been specifically designed for the bulk testing of alluvial gold deposits however it can be used equally well to recover other heavy minerals such as tantalum, cassiterite (tin), chromite, platinum and gemstones or as a full time production plant.

This allows batch samples of 100 tonnes or more to be easily tested in the field without the expense of transporting this material to fixed testing facilities. Sufficiently large samples can therefore be quickly and easily processed to ensure accurate delineation of reserves.

The plant features compact design and robust construction with high quality components and fittings throughout. High gold recovery is achieved through the use of a Russell Jig, sluice and secondary bowl concentrator.

Material is fed with either a front end loader or excavator and is processed via a scrubber/ trommel screen. Screen undersize passes to a Russell Jig and then to an amalgam trap, concentrator bowl. Screen oversize is discharged onto a slewable conveyor and stockpiled away from the machine. Oversize nuggets can be collected using a belt mounted metal detector and deflector chute arrangement.

Specifications

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|------------------------|---|
| Maximum capacity | • 10 tonnes / hour |
| Weight | • Approx. 3 tonnes |
| Hopper/ grizzly | • 1.25m ³ with 100mm aperture |
| Belt feeder | • 1200mm x 300mm |
| Drive | • Sew Eurodrive variable speed |
| Scrubber | • 800mm x 800mm Diameter |
| Trommel screens | • 4 x panels 1000mmx 370mm |
| Drive | • SEW Eurodrive fixed speed |
| Spray bar | • Internal spray pipe full length |
| Primary concentrator | • Model J3 Russell Jig |
| Secondary concentrator | • UMF amalgam bowl |
| Jig sluice | • 1500mm x 710mm Riffle mat |
| Oversize conveyor | • 3200mm x 350mm chevron belt |
| | • Slewable 110°, luffable 30° |
| | • Storage capacity approx. 40m ³ |
| Water Pump | • 65mm centrifugal, electric drive |
| Generator | • Pump demountable from trailer |
| BSP10-C Upgrade | • 30m x 75mm hose & cable |
| | • VM diesel (or equiv) 18kVA |
| | • Demountable from trailer |
| Optional extras | • 1600mm x 800mm scrubber |
| | • Model J2/6 Russell Jig |
| | • Larger UMF amalgam bowl |
| | • Heavy duty suspension |
| | • Water monitored feed hopper |
| | • Conveyor metal detector |
| | • Extension drawbar & pintle hook |

