

# AMTAS PTY LTD

Mineral Processing & Materials Handling Equipment

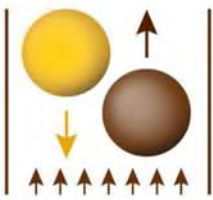
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## BULK SAMPLE PLANT - Model BSP-2 and 2C



### Model BSP-2 Bulk Sampling Plant

- A fully self contained 2 tonne/hr (nominal rating) alluvial processing plant designed for either bulk sampling of deposits or full time small scale production.
- Suitable for the recovery of alluvial gold, platinum, diamonds, tin, tantalum, gemstones and other heavy minerals.
- Standard model or **BSP-2C** with larger capacity scrubber for the treatment of high clay content material.
- Features Russell Jig (primary) and **UMF** concentrator bowls used as secondary concentrators, giving high upgrade ratios and excellent recoveries.
- Robust steel construction with top quality components used throughout.
- Trommel, Russell Jig and concentrate pump driven by a single 5.5hp Honda petrol engine (diesel or electric motor optional). Jig fitted with variable speed drive.
- Water supplied via independent water pump, (petrol, diesel or electric).
- Skid base fitted with removable stub axles, wheels and pneumatic tyres to give greater on-site manoeuvrability.
- Water inlet manifold with quick release cam-lock fitting, control valves and pipe work to all water usage points.



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## BULK SAMPLE PLANT - Model BSP-2 and 2C

P-2

### Description

The BSP2 and BSP2C Bulk Sample Plants are fully self contained processing plants which can be used for prospecting, bulk sampling or small scale full time production. Both models are designed for manual feeding, thereby alleviating the need for mobile mining machinery. They are ideal for use in areas of limited access since they can be easily carried on a 4WD or trailer.

Both models feature the **Russell Jig** model LJ-2. Secondary concentration is achieved using **UMF** heavy duty acrylic concentrator bowls which reduce the final concentrate to a few kilograms from which the gold can be easily recovered. Variations in operating procedure allow for the treatment of gemstones, tin, tantalum and other heavy minerals.

Optional separate water supply pump with a 4.0hp Honda powered petrol engine and hoses, suction hose, strainer and removable pneumatic wheels. Optional:- hand held metal detector for the recovery of nuggets from the trommel oversize.

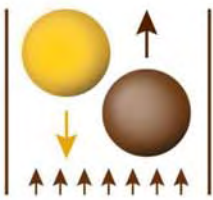
### BSP2 Specification

- Water monitored feed hopper designed for manual feeding by shovel. Hopper fitted with adjustable water spray nozzle and hose for washing material into scrubber.
- Scrubber, 600mm long x 500mm diameter and trommel screen, 400mm long x 300mm dia. Scrubber fitted with internal retaining ring and lifting paddles to increase retention time. Screen section fitted with adjustable external spray bar and high tensile woven wire screens at 6mm aperture. (optional sizes available).
- Trommel oversize discharge chute for gravity discharge of oversize.
- Trommel launder collecting screen undersize material and gravity feeding to Russell Jig.
- **Russell Jig** model LJ-2 complete with internal diaphragm, stainless steel woven wire screens, lead ragging, variable speed drive, adjustable stroke length and hutch inlet water manifold with valves.
- 12mm cast iron concentrate pump, valves and fittings for pumping of jig concentrate to secondary concentrator bowl.
- 150mm diameter concentrator bowl fitted with Saunders diaphragm valve. Overflow from concentrator bowl discharged back into trommel under size launder for re-treatment by jig or discharge over tailings sluice.
- Jig tailings sluice fitted with African pattern rubber riffle mat.
- 5.5hp Honda petrol engine (standard fitment) mounted on frame driving the trommel, jig and concentrate pump through belts and pulleys. Electric and diesel powered available.

### DIMENSIONS AND WEIGHTS FOR BSP-2

Plant Size:- 2150mm long x 990mm wide x 1370mm high  
Open Crate:- 2176mm long x 1076mm wide x 1510mm high  
Weights Ave:- 620kg gross weight, 445kg nett weight

Note:- Specifications and dimensions subject to change without notice.



## BULK SAMPLE PLANT - Model BSP-2 and 2C

P-3

### BSP2C Specifications

The BSP2C features a clay trommel with a higher capacity scrubber than the standard model to give increased retention time and assist in the breakdown of high clay content material. Specifications are the same as for the BSP2 above with the following exceptions:

- 800mm long x 800mm diameter scrubber.
- Belt tensioner fitted to trommel drive which can be used as a clutch to assist starting of the trommel with the scrubber full of material.
- Twin 150mm diameter concentrator bowls fitted with Saunders diaphragm valve. Overflow from concentrator bowls discharged onto scavenger sluice fitted with African pattern rubber riffle mat.

### Optional Equipment For Either Model

- 50mm centrifugal water supply pump mounted in separate steel carrying frame and driven by petrol engine, diesel engine or electric motor. Pump supplied complete with 30m x 50mm flexible lay flat hose, Cam-lock fittings, 3m suction hose, foot valve, filter and float.
- Heavy duty pneumatic wheels with stub axles (4).
- Hand held metal detector with automatic ground balance and ferrous/non ferrous discrimination, for recovery of nuggets from trommel over size.

### DIMENSIONS AND WEIGHTS FOR BSP2C

Plant Size:- 2200mm long x 1100mm wide x 1450mm high  
Open Crate:- 2000mm long x 1220mm wide x 1490mm high  
Weights Ave:- 670kg gross weight, 525kg nett weight.

Note:- Specifications and dimensions subject to change without notice



BSP2C showing high capacity scrubber and removable wheels.