

AMTAS PTY LTD

Mineral Processing & Materials Handling Equipment

56 Dooley Street, Naval Base

Western Australia 6165

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PRODUCTS LIST MINERAL PROCESSING - P.1

Bulk Sample Plants



Mobile, self contained, alluvial sampling plants

BSP-0.5 500kg per hour miniature sampling plant complete with wet/dry feed hopper, feed flume with water injection, 100mm wide x 150mm long Russell Jig, Honda petrol motor and belt driven water supply pump. Unit mounted in frame with pneumatic wheels.

BSP-2 2.0 tonne per hour wet or dry feed, petrol or diesel powered with independent water supply pump, suction hose, foot valve, delivery hose and fittings 300mm x 300mm Russell Jig primary concentrator, two 150mm acrylic concentrator bowl secondaries. Large capacity scrubber trommel. Optional skid or wheel mountings. See detailed brochure.

BSP-2C 2.0 tonne per hour, as per BSP-2 but with a larger scrubber for difficult clay conditions and a heavier duty main frame.

BSP-10 10 tonne per hour tandem axle mounted plant with water monitored feed hopper, fixed grizzly and water monitor work station. Optional dry feed hopper with sloped grizzly and variable speed belt feeder into scrubber / trommel. Model J3 Russell Jig primary with two 150mm acrylic concentrator bowl secondaries. Knudsen bowl concentrator optional. Trommel oversize, folding radial stacker conveyor with optional metal detector and nugget removal gate system. Demountable diesel generator and electric main water pump with 30m of cable (complete with plug tops and sockets) for remote connection. See brochure.

BSP-10C 10 tonne per hour as per BSP-10 but with larger scrubber (1000mm diameter x 1700mm long) and fitted with Russell Jig model J2/6. Dual concentrate pumps and larger 200mm concentrator bowl secondaries. Heavier duty 6.0 tonne suspension and larger capacity water pump.

Russell Mineral Jigs



Single diaphragm

Models LJ2, J2, J3, J5, J8, J14, and J24

Twin diaphragm

Models J2/6, J2/10, J2/16, J2/28, J2/54, J2/64 and J2/70

Capacities from 2.0 tonne / hour to 140 tonne / hour in two and four cell (single and twin diaphragms) in single stand alone units. Combinations are used to achieve higher tonnages and for secondary / tertiary concentrator where required. Modular units supplied mounted on skids, wheels or tracks with access stairs, walkways, feed distributors, tailings discharge (pumped or gravity) concentrate collection systems, pumps, water manifolds, electric control stations and lighting.

Scrubber/ Trommels



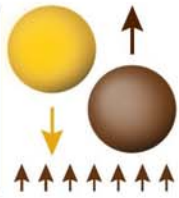
Medium duty

Models WT-10, WT-20, WT-30, WT-50, WT-75, and WT-100

Heavy duty

Models WT-10C, WT-20C, WT-30C, WT-50C, WT-75C and WT-100C

Capacities from 500kg per hour to 300 tonnes per hour with diameters from 300mm to 2600mm and varying scrubber / screen lengths. Most models have drive under scrubber section with cantilever trommel screen. All drives fitted with fluid couplings for soft starting and incorporate heavy-duty forklift type solid wheels (split rim or two piece rim mounted). Standard mounting on skid base complete with undersize hopper, feed chute (wet or dry feed type - optional), spray bar and inline filter. All models can also be incorporated into wheel mounted trailers or with tracks.



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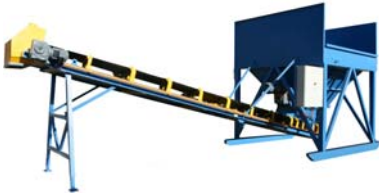
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PRODUCTS LIST MINERAL PROCESSING - P.2

Feed Hoppers



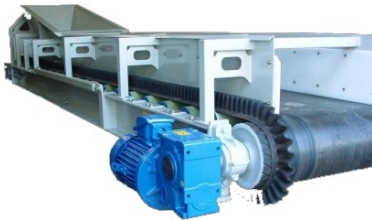
Wet

Water monitored hoppers of all sizes made to suit any application. Grizzlies – fixed flat, fixed angled and tilting with manual or hydraulic lifting, optional FM remote control for hydraulics. Water monitors manual or automated, optional troughed plate feeder for moving difficult to shift material (eg high rock content). Can be supplied as a modular unit or part of a fixed or mobile production plant.

Dry

Material hoppers for most applications with optional grizzlies (as per water monitor hoppers). Optional setup for belt feeder, conveyor, plate, apron or vibratory feeders. Modular units available as a part of a fixed or mobile plant lining.

Conveyor/ Feeders



Conveyors

Ranging from 300mm belt width to 1500mm with standard or cleated belts. Steep angle cleated belts with custom UMF return rollers. Free standing, modular on skids or wheels including slewing conveyors to 20 metre centres. Fixed or variable speed drives. Belt weighers, electronic metal detectors and permanent magnets optional.

Belt Feeders

Troughed or flat design with widths from 300mm upwards, fixed or variable speed drives, (mechanical type or electronic). Rubber impact rollers standard with rubber disc return rollers. Drive rollers rubber lagged with open type heavy duty slatted tail rollers.

Plate Feeders

UMF troughed design for wet feed or standard flat type in lengths and widths to suit most applications.

Screen Decks



Single, double or triple deck screens for wet or dry screening.

Inclined or horizontal designs incorporating bolt-on drive frames, side plates, feed boxes, discharge lips and out of balance drive motors.

Crowned screen deck to maintain screen tension and optional coil springs available on screen tension bolts to stop over tensioning.

Motors cross pipe can be rotated through 10 degrees to adjust the drive angle and therefore increase or decrease transition times over the screens.

Optional dust covers, undersize / oversize chutes, support stands, spray pipes and nozzles etc. All screens can be supplied with a variety of screen cloths including high tensile steel, stainless steel and rubber.

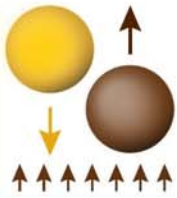
Electrics



Switchboards

Supplied by UMF/AMTAS using top quality switchgear including Moeller, Siemens, S&S, and Telemechanique. Cabinets available in powder coated mild steel, polycarbonate and stainless steel. Minimum sealing IP55 International Sealing Standard. Motor drives incorporate thermal overload / circuit breaker combinations with separate contactors. Optional soft starters, star delta starters and variable speed drives available.

Special builds available to cope with the aggressive environment found in fertiliser plants and the extreme temperatures of mine sites.



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PRODUCTS LIST MINERAL PROCESSING - P.3

Weighing systems



Belt weighers

Conveyor belt weighing systems for belt widths 300mm to 1500mm. Rugged low profile design, ideally suited to retro fitting into conveyors with minimal height between belts.

Current sizes available:-

Single loadcell models (belt width in millimetres) - 300, 450, 500, 600, 650, 750, 900, 1050, and 1200.

Dual loadcell models standard duty (belt width in millimetres) - 1050, 1200, 1400 and 1500

Dual loadcell models heavy duty - 1200, 1400 and 1500

Stainless steel models also available on special order.

Calibration Chains



Calibration chains

Precision roller chains with weights from 5kg/ metre to 300kg/ metre. Mild steel or stainless steel. Available in any length, 6.0m being the standard. Options include rear bridles, centre lock bridles, tethering hardware and stowage boxes.

Optional coatings include zinc plated, galvanized or painted.

Chain deployment



Chain deployment racks and drums for calibration chains

Custom built deployment racks with winches, cables and tethering hardware. Features a lockable safety gate to prevent accidental deployment of chain. Individually engineered mounting frames to suit each application are available.

Deployment drums for link chain are also available as a low cost option for calibrating. Standard drum holds multiple 6.0m strands of galvanized link chain. Features a shaft mounted SEW Eurodrive gear-motor, double spherical roller bearings in cast iron sealed housings and removable axle shaft.

Optional coatings include galvanized or painted.

Pleitz Diamond Jig



Model PL390-P22H shown with petrol drive. These jigs are traditionally used for sampling of alluvial diamonds and other precious gemstones. Also available with AC/DC electric drive (variable speed), model PL390-E55DC.

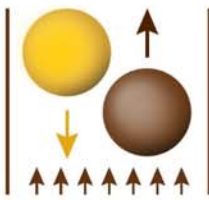
Complete with feed hopper, feed shut-off gate, removable screen frame and drain valve on screen tank. Hopper also removable for transport or if not required for operation.

Overall dimensions:- 970mm x 740mm x 1020mm (L x W x H)

Tank dimensions:- 650mm x 650mm (L x W)

Screen diameter:- 90mm

Motor power:- Petrol 2.2hp - Electric 0.55kW



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Miscellaneous Items



Variable speed Warman pump & hopper



Electric sieve screener



Trommel with dust extractor



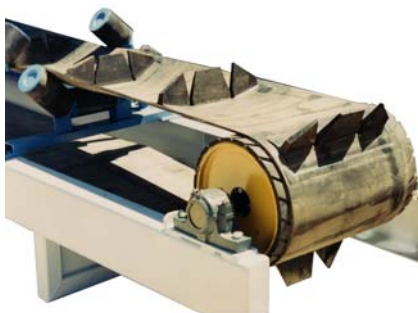
Adjustable loadcell mounting kit



Suspended sieve shaker



Volumetric feeder with conditioner



"Elephant ear" cleated conveyor belt



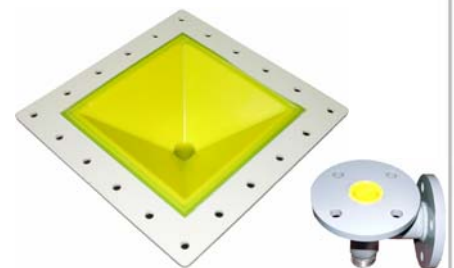
Rubber lined "blind" cyclone



Multiple hopper with pneumatic gates



Chemical pumps



Polyurethane lined components