

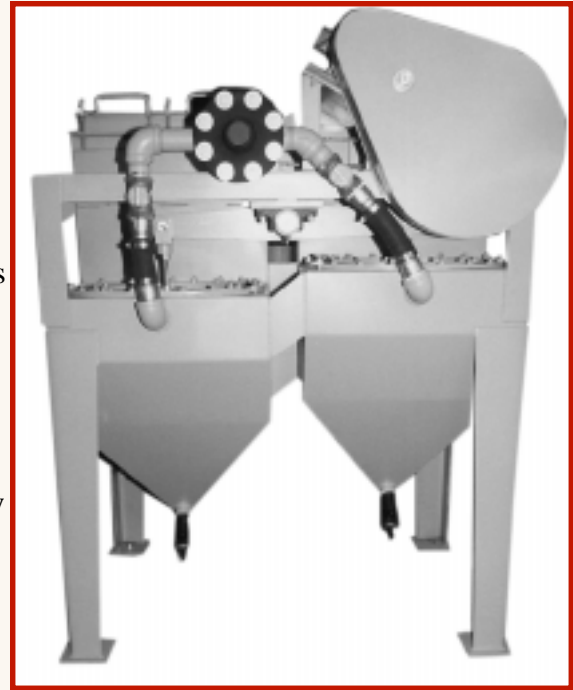


SEPOR, INC.
718 N. FRIES AVE.
P. O. BOX 578
WILMINGTON, CA 90748
PHONE: 310-830-6601
FAX: 310-830-9336

SELECTIVE MINERAL JIGS

PILOT PLANT AND SMALL SCALE PRODUCTION SIZES

These Mineral Jigs were designed for the recovery of minerals or other heavy industrial products, and they employ the proven, inexpensive basic laws of gravity to affect the concentration. These Selective Mineral Jigs operate on the principle of hindered settling and are effective where there is a difference in the settling rate of the solids treated. Usually, the rule of thumb for gravity concentration is there must be a Difference in Specific Gravity Units of 1.0 between the materials to be separated. Typical applications involve the recovery of gold and silver from placer or hard rock deposits, diamonds, other precious metals, lead, zinc, fluorspar, chrome, black sands, magnetite, ilmenite, rutile, tin, garnet, barite, etc..

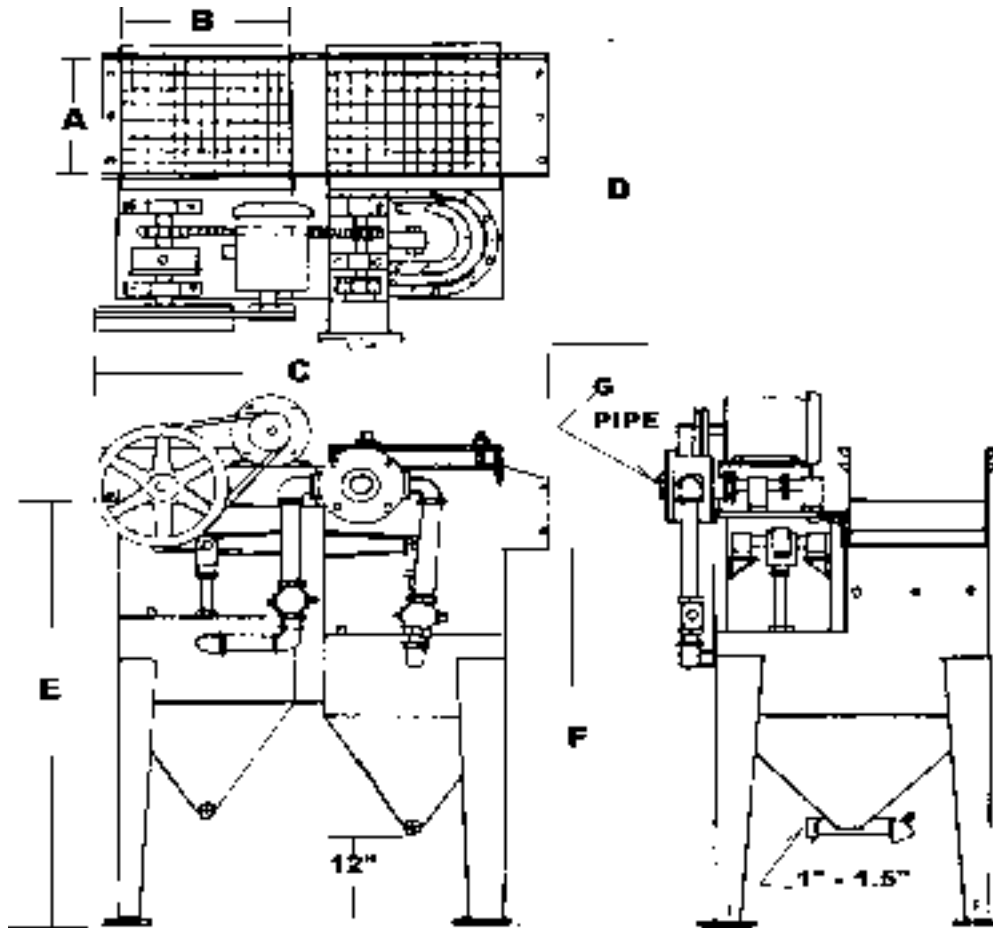


16 X 24 Duplex Selective Mineral Jig

Some Advantages of the Selective Mineral Jig

1. Designed to process minus 3/16" x 0 unclassified feed material.
2. The rotating water valve results in a highly selective product. The rotating water valve adds water to the hutch only on the upstroke of the diaphragm. The jig bed is subjected to upward pulsations only. Gravity separation is effected by the true hindered settling principle, as the suction effect on the material in the feed compartment is diminished.
3. The rotating water valve reduces the volume of water required for operation.
4. The selective mineral jig has a low power requirement per tone processed.
5. Very little operator attention is required for operation of the jig.
6. These machines are available in Simplex Models (single unit), or Duplex Models (2 jigs in series)
7. Screen compartments are designed to prevent entrance slurry between basket and tank walls. This eliminates packing, cementation and permits easy screen box removal for cleaning or maintenance.

CATALOG NUMBER	DESCRIPTION	CATALOG NUMBER	DESCRIPTION
050G-020	8 X 12 Simplex	050G-023	8 x 12 Duplex
050G-021	12 x 18 Simplex	050G-024	12 x 18 Duplex
050G-022	16 x 24 Simplex	050G-025	16 x 24 Duplex



APPROXIMATE DIMENSIONS						SPECIFICATIONS					
A X B	C	D	E	F	G	MILL** CAPACITY	GPM	WATER RPM	MOTOR HP	WEIGHT LBS.	
8" X 12"	2' 6"	2' 6"	4' 2"	3' 5"	1.5"	7 - 35*	2 - 3	275-325	.75	520	
12" X 18"	2' 10"	3'	4' 6"	4'	1.5"	25-75*	5-8	275-325	1	1130	
16" X 24"	3' 4"	3' 11"	3' 11"	4' 4"	2"	75 - 100*	6-10	275-325	1.5	1450	
DU P L E X M O D E L S											
8" X 12"	3' 1"	2' 6"	3' 10"	3' 4"	1.5"	15-45*	4-6	275-325	1	780	
12" X 18"	4' 2"	3' -1"	2' 6"	3' 10"	1.5"	50-150*	9-15	275-325	1.5	1570	
16" X 24"	5' 1"	3' 11"	5' 1"	3' 5"	2"	150-400*	12-20	175-325	2	1985	

* Tons/Hour

** Estimated capacity in closed circuit grinding operation including circulating load

** Estimated capacity for placer operations is 2 tons/hour per square foot of jig bed area.

Specifications

- Available as simplex or duplex unit right (as shown) or left hand.
- Welded steel hutch with support legs to position hutch discharge approximately 12" from ground level, with locking cock.
- Units are standard with removable, hydraulically sealed screen boxes. removable screen boxes provided with integral feed, transition and discharge launders and sealed in the tank on a rubber gasket. Thus slurry cannot enter, compact, and cement between the screen box and tank wall. Result: Boxes are easily removed.
- 2-mm and 3-mm tapered wedge bar bedding screens are available.
- Trash screen of mild steel is included.
- Diaphragms are of urethane or rubber and are held in position by steel plates with bolts on close centers.
- Eccentric is of bronze and adjustable from approximately 0 to 1".
- Drive bearings are self-aligning ball bearings. Yoke bearings are split bronze bushed bearings.
- Rotating water valve is chain driven to assure proper timing. Piping included to hutch compartment(s).
- Balance flywheel is grooved for V-belt drive.
- End draw—off's optional, but not normally required.
- Unit primed with Rustoleum, finished with green enamel and assembled complete for shipment.