

NO-BAKE SAND
RECLAMATION



WESMAN
FOUNDRY EQUIPMENT

LOW-LEVEL RECLAMATION UNIT



WESMAN-FMS LOW-LEVEL RECLAMATION SYSTEMS feature a unique vertical vibratory elevator, which eliminates the requirement for expensive pit work where a low-level shakeout facility is required. In addition, the floor space required for the plant installation is minimized.

STAR FEATURES

- Efficient tramp metal removal
- Floor mounted with no pits
- Modular construction for simplified layout
- Independent vibration for shakeout and elevation eliminates throughput problems
- Low maintenance
- Compact layout minimizes floor requirement
- Easily replaceable screens

The system utilizes multiple screens, starting with a shakeout deck built with heavy-duty slotted steel plate, followed by a primary screen of heavy duty perforated steel plate (6mm aperture), a secondary screen of stainless steel wedge wire (1.5mm aperture) and finally an elevated screen constructed of high tensile stainless steel inter-woven mesh. Liner plates are fitted to high wear areas of the body shell.

A removable clean-out door the rear of the unit allows easy removal of large metallics and non-degradable material. Periodic removal is required to maintain throughput and reduce wear. Fine metallics and sand agglomerates are discharged continuously via the tertiary screen situated in the elevator outlet.

Classification is achieved by a fluid bed powered by a high pressure single stage fan. Where cooling is required, an integral heat exchanger is incorporated in the fluid bed with appropriate water cooling system.

DUST HOOD

A freestanding three-sided environmental dust hood is supplied with the compact vibratory attrition unit for effective collection of fume and dust generated by the integral shakeout deck. The dust hood should be connected to a dust extraction plant.

MODEL	VD 3	VD 6B	VD 6S	VD 9B	VD 9S
NOMINAL OUTPUT	3 TPH	6 TPH	6 TPH	9 TPH	9 TPH
SHAKEOUT SIZE (MM)	1150 X 1000	1500 X 1150	1500 X 1500	1840 X 1600	2000 X 2000
MAXIMUM DECK LOAD	500 KG	1000 KG	1000 KG	2000 KG	2000 KG
SHAKEOUT MOTORS	2.5 KW X 2	5 KW X 2	7 KW X 2	7.6 KW X 2	7.6 KW X 2
ELEVATOR MOTORS	1.1 KW X 2	2.2 KW X 2	2.2 KW X 2	2.2 KW X 2	2.2 KW X 2
MINIMUM EXTRACTION WITH COOLER CLASSIFIER (M3/HR)	7000	10000	10000	17000	17000
WATER REQUIREMENT FOR COOLER CLASSIFIER (LPM)	150	530	530	800	800

THE WESMAN ENGINEERING CO PVT LTD
WESMAN CENTER, 8 MAYFAIR ROAD, KOLKATA 700019
TEL: +91 (33) 40020300 FAX: +91 (33) 22908050
EMAIL: foundry@wesman.com WEBSITE: www.wesman.com
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REGIONAL SALES AND SERVICE OFFICES:
 ■ MUMBAI (22) 28509521 ■ NEW DELHI (11) 26431723
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