



BUCKET WHEEL DEWATERERS

MEKA Bucket Wheel range of sand classification systems are designed to operate with maximum versatility for efficient dewatering and fine sand recovery from the solid-water suspension in the underflow of a washing screen or dissolving station. The twin bucket units provide the removal of clays, silts and slimes to produce up to 2 grades of sand.

Sand from a washing screen becomes a solution with water and is fed into the bucket tank of the washer. Most of the coarse sand is taken away by the buckets, drained and discharged. The rest of this sand then floats in suspension to the auger tank. The coarser of this sand, sinks to the bottom and is removed to the buckets for discharge by the auger screw. The silt, then floats away to the customers ponds.

The water flow rate is an important factor, as a material with a high percentage of fines to be removed, will require a high volume of water.

APPLICATIONS

- All Forms of Concrete, Mortar and Asphalt Sands • Quarry Dust / Crushed Fines • Lake and Beach Sands
- Slag • Golf Course Sands • Filter Bed Sands • Fly Ash • Iron Ore



FEATURES/BENEFITS

- High capacity depending on material size and type
- Can produce either 1 or 2 grades of material
- Production of silt free material, removes clays, silts and slimes below 75 μ m (200 mesh)
- Increased drainage time produces a drier product, removes water to 10–15% of residual water content
- Major reduction in saleable material discharging to the pond
- Economical in operation, low running costs
- Heavy duty robust construction ideal for rugged operating environments
- In case further recovery is required, bucket wheel performs 80–90% of the work reducing wear on pumps and cyclones whilst increasing operating efficiency

MODEL	DRIVE		WATER CONSUMPTION		CAPACITY		WORKING rpm
	kW	HP	m ³ /hr	gpm	mtph	stph	
MBW60	5,5	7,5	50-75	220-330	40-60	44-66	2-5
MBW100	7,5	10	75-100	330-440	60-100	66-110	2-5
MBW150	11	15	100-125	440-550	100-150	110-165	2-5