

Dry Concentration Module

SKU: AVM-DC-05 · Containerized Waterless Mineral Concentration System

10 TPD THROUGHPUT	~75 kW TOTAL POWER	0–10 mm FEED SIZE	Zero WATER USE
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PRODUCT OVERVIEW

The AVM-DC-05 is a containerized waterless mineral separation system using dry screening, electrostatic separation, and air classification to recover gold, heavy minerals, rare earths, and polymetallic materials — ideal for arid and water-restricted sites. Integrates Tornado Mill micronization, Electrostatic Dry Washer, and Rotary Steam Drier in one modular line.

MODULE OVERVIEW

Max Throughput	10 TPD
Total Installed Power	~75 kW
Feed Size	0–10 mm (≤ 8% moisture)
Output (P80)	–200 mesh (75 µm)
Water Consumption	Zero — fully dry process
Target Metals	Au, heavy minerals, REE, polymetallic
Lead Time	90 days from PO

EQUIPMENT SPECIFICATION

SKU	Machine	Capacity (TPH)	Power (kW)
AVM-DC-05-FH	Feed Hopper	1–2	—
AVM-DC-05-SD	Rotary Steam Drier	1–2	15 + thermal
AVM-DC-05-TM	Tornado Mill	1–2	30
AVM-DC-05-DW	Electrostatic Dry Washer	1–3	15
AVM-DC-05-SH	Storage Hopper (Concentrate)	3–5 m ³	—

COMMERCIAL TERMS

Lead Time	90 days from PO — FAT-tested before shipment
Warranty	12 mo workmanship · 24 mo frame · 18 mo Tornado Mill liners · 24 mo HV insulation
Included	Engineering, FAT, install supervision, operator training, O&M manuals, first-fill consumables
Certifications	UL, CE, ETL, ISO 9001 · Kiln burner: ANSI Z21 / EN 746
Payment Terms	30% deposit on PO · 70% on shipment
Upstream Pairing	Crush Line Module AVM-CL-D-20
Downstream Pairing	Hybrid Plasma Smelting, High Temp Fusion Furnace