

JMS-30-MES

30 m³/s (60,000 CFM), Mobile, Electric, Skid Dust Collector



Technical Specification

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Overview

The **JMS-30-MES** is a complete dust collection system, featuring a single air intake, filter house, clean air box, silencer, exhaust, centrifugal fan and dust discharge system mounted on a drag skid base. The centrifugal exhaust fan creates **30 m³/s (60,000 CFM) at 3 kPa**.

Electric Power

The **JMS-30-MES** is powered by 415 V - 3 Ph -50 Hz and features a 185 kW Variable Frequency Drive (VFD).

The VFD ensures the dust collector provides the required air flow while using the least amount of power. If there is insufficient air flow, the dust collector will turn up the VFD to generate more air volume. Equally, the air flow meter will turn down the VFD to use less kW for the same amount of air volume. This makes the mobile dust collector power efficient, with many projects reporting a 40% reduction in power consumption.

Overview	
Air Volume	30 m³/s (60,000 CFM)
Electric Power	415 V - 3 Ph - 50 Hz
Mobility	Skid
Air Intakes	
Single Air Intake Ø	1,372 mm
Filter Technical Data	
Number of High Efficiency Filters	32
Total Filter Surface Area	864 m²
Filter MERV Rating (Note 1)	15
Reverse Pulse Filter Cleaning	
Reverse Pulse Cleaning Solenoids	16
On-Board Compressor	Yes
Centrifugal Fan	
Fan Static Pressure	3 kPa
Fan Motor Power	185 kW
Fan Silencer	Yes
Variable Speed Drive (VSD)	
Variable Speed Drive	Yes
Variable Frequency Drive (V)	415 V - 3 Ph - 50 Hz
Variable Frequency Drive (kW)	185 kW

Note 1: During normal operation dust collectors achieve a filtration efficiency better than installed filter MERV rating due to dust cake build-up on filter media. Dust cake efficiency is dependent on dust type, particle sizes etc. Efficiencies of 99.99% at 0.067 micron have been achieved.

Mobility

The **JMS-30-MES** - 30 m³/s (60,000 CFM), Mobile, Electric, Skid Dust Collector is mounted on a compact, skid base.

Dust collectors mounted on a skid base offer a cost-effective option when dust collection needs are relatively static.

The unit can be dragged into position using the four rigging mounts at each end of the machine or moved using the four lifting lugs. When units need to be repositioned there is limited downtime in construction works as the complete unit can be moved easily.

Dimensions	
Maximum Width	2,586 mm
Maximum Height	3,522 mm
Maximum Length	9,260 mm
Mass	12,500 kg

Dust Discharge System	
Hydraulic Reversible Augers	1
Main Screw Conveyor Auger	1
Stainless Steel Rotary Valves	1
Control and Monitoring System	
CANBus PLC	Yes
HMI Display	Yes
Fan and Differential Pressure Gauges	Yes
Exhaust Monitoring Probe	Yes
Safety Features	
Emergency Stops	1
Amber Rotating Beacons	1
Operational Lights and Alarms	Yes
Work Safety Lights	Yes
Optional Configurations	
Multiple Side Air Intakes Ø	Optional: 4 x 508 mm
Clean Air Exhaust (REC to RND)	Optional Extra
Incline Screw Conveyor Auger	Optional Upgrade
Velocity Probe	Optional Upgrade
Plant Air Attachment	Optional Upgrade
Wet Discharge System	Optional Extra
Central Auto Mechanical / Electrical Greasing System	Optional Upgrade
Explosion Vent	Optional Extra

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