

# Technical Specification

## Electric Powered Units - Range Overview

	JMS 6 M-SERIES	JMS 10 M-SERIES	JMS 20 M-SERIES	JMS 30 M-SERIES	JMS 40 M-SERIES	JMS 50 M-SERIES	JMS 60 M-SERIES
<b>Overview</b>							
Air Volume	6m³/s	10m³/s	20m³/s	30m³/s	40m³/s	50m³/s	60m³/s
<b>Electric Power Options</b>							
Electric Power Options	415V	415V	415V	415V	415V / 1000V	415V / 1000V	415V / 1000V
415-1000V Step Down Transformer	n/a	n/a	n/a	n/a	Option	Option	Option
<b>Mobility Options</b>							
Drag Skid	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Castor Wheel	Yes	n/a	n/a	n/a	n/a	n/a	n/a
<b>Air Intakes</b>							
Single Air Intake Ø	600mm	600mm	1118mm	1372mm	1600mm	1600mm	1800mm
Dual Air Intake Ø - Option	n/a	2 x 350mm	2 x 508mm	2 x 508mm	n/a	n/a	n/a
Multiple Air Intakes Ø	n/a	n/a	n/a	4 x 508mm	Option: 4 x 508mm	Option: 5 x 508mm	Option: 7 x 508mm
<b>Filter Technical Data</b>							
Number of High Efficiency Filters	12	16	24	32	48	60	84
Total Filter Surface Area	288m²	448m²	672m²	896m²	1,344m²	1680m²	2352m²
Filtration Cleaning Efficiency	99.99% at 0.067 micron						
Filtration of Diesel Particulates	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Filter Access Doors	2	2	2	4	8	10	14
Patented Drop Out Box	No	No	Yes	Yes	Yes	Yes	Yes
Estimated Filter Life *	6000 - 9000 hours						
<b>Reverse Pulse Cleaning System</b>							
Reverse Pulse Cleaning Solenoids	6	8	12	16	16	20	28
On-board Compressor	Option	Yes - 24 CFM	Yes - 37 CFM	Yes - 37 CFM	Yes - 60 CFM	Yes - 60 CFM	Yes - 60 CFM
Plant Air Attachment	Yes	Option	Option	Option	Option	Option	Option
Adjustable Pressure & Frequency Rate	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Drains	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Centrifugal Fan</b>							
Fan Pressure **	-2.5kPa	-3kPa *	-3kPa *	-3kPa *	-3.5kPa *	-3.5kPa *	-3.5kPa / -5kPa
Fan Power (Electric)	37kW	37kW	90kW	110kW	250kW	250kW / 315kW	315kW / 450kW
Fan Silencer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Variable Speed Drive</b>							
Variable Speed Drive (V)	415V	415V	415V	415V	415V / 1000V	415V / 1000V	415V / 1000V
Variable Speed Drive (kW)	37kW	37kW	90kW	110kW	250kW	250kW / 315kW	315kW / 450kW

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<b>Discharge System</b>							
Hydraulic Reversible Augers	Yes	n/a	Yes	Yes	Yes	Yes	Yes
Main Screw Conveyor Auger	1	n/a	1	1	2	2	2
Stainless Steel Rotary Valves	1	1	1	1	2	2	2
Incline Screw Conveyor Auger	Front / Side	Front	Front / Side	Front / Side	Side	Side	Side
Slurry Auger (Wet Discharge)	n/a	n/a	n/a	n/a	Option	Option	Option
Shotcrete Auger	n/a	n/a	n/a	n/a	Option	Option	Option
<b>Hydraulic Components</b>							
Hydraulic Cooling Fans	1	n/a	1	1	1	1	1
Hydraulic Oil Tank Capacity	45L	n/a	60L	60L	60L	60L	60L
<b>Electric Components</b>							
On-board Compressor	Option	Yes	Yes	Yes	Yes	Yes	Yes
Hydraulic Power Pack	4kW	n/a	7.5kW	7.5kW	7.5kW	7.5kW	7.5kW
<b>Control and Monitoring System</b>							
CANBus PLC	Yes	n/a	Yes	Yes	Yes	Yes	Yes
HMI Touch Screen Display	7" 12" Option	n/a	7" 12" Option	7" 12" Option	12"	12"	12"
Static & Differential Pressure Gauges	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Emissions Monitoring Probe	Yes - 24V	Yes - 24V	Yes - 24V	Yes - 24V	Yes - 24V	Yes - 24V	Yes - 24V
Operational Lights & Alarms	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Work Safety Lights	4 x 24V	6 x 24V	6 x 24V	6 x 24V	12 x 24V	12 x 24V	16 x 24V
Velocity Probe	Option	Option	Option	Option	Yes	Yes	Yes
Auto Greasing System	Option	Option	Option	Option	Option	Option	Option
<b>Safety Features</b>							
Emergency Stops	1	2	1	1	2	2	2
Emergency Stop Lanyard System	n/a	Option	Yes	Yes	Yes	Yes	Yes
Amber Rotating Beacons	1	2	2	2	2	2	2
Mains Isolator	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fire Suppression System	Option	Option	Option	Option	Option	Option	Option

\*JMS-Series units log data to show the relationship between filter life and power usage. This helps with decision making on when to replace filters. Changing the filters at the optimum time ensures the machine does not draw more kW than required to maintain air flows.

\*\* Alternative centrifugal fans can be utilised to optimise air volume and pressure to suit site conditions and specific applications.

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## Diesel Powered Units - Range Overview

	JMS 10 M-SERIES	JMS 20 M-SERIES	JMS 30 M-SERIES	JMS 40 M-SERIES	JMS 50 M-SERIES
<b>Overview</b>					
Air Volume	10m <sup>3</sup> /s	20m <sup>3</sup> /s	30m <sup>3</sup> /s	40m <sup>3</sup> /s	50m <sup>3</sup> /s
<b>Diesel Power</b>					
Diesel Engine	T4F/5	T4F/5	T4F/5	T4F/5	T4F/5
Diesel Fuel Tank Capacity	220L	220L	220L	2 x 400L	2 x 400L
Adblue Tank	25L	45L	45L	70L	70L
<b>Mobility Options</b>					
Track Mounted with Remote Control Operation	Yes	Yes	Yes	Yes	Yes
Drag Skid	Yes	Yes	Yes	Yes	Yes
<b>Air Intakes</b>					
Single Air Intake Ø	810mm	1118mm	1372mm	1600mm	1600mm
Dual Air Intake Ø - Option	n/a	2 x 508mm	2 x 508mm	n/a	n/a
Multiple Air Intakes Ø	3 x 508mm	n/a	4 x 508mm	4 x 508mm	5 x 508mm
<b>Filter Technical Data</b>					
Number of High Efficiency Filters	18	24	32	48	60
Total Filter Surface Area	504m <sup>2</sup>	672m <sup>2</sup>	896m <sup>2</sup>	1,344m <sup>2</sup>	1680m <sup>2</sup>
Filtration Cleaning Efficiency	99.99% at 0.067 micron				
Filtration of Diesel Particulates	Yes	Yes	Yes	Yes	Yes
Filter Access Doors	3	2	4	8	10
Patented Drop Out Box	No	Yes	Yes	Yes	Yes
Estimated Filter Life *	4500 - 9000 hours				
<b>Reverse Pulse Cleaning System</b>					
Reverse Pulse Cleaning Solenoids	6	12	16	16	20
On-board Compressor	Yes - 37 CFM	Yes - 37 CFM	Yes - 37 CFM	Yes - 60 CFM	Yes - 60 CFM
Plant Air Attachment	Option	Option	Option	Option	Option
Adjustable Pressure & Frequency Rate	Yes	Yes	Yes	Yes	Yes
Auto Drains	Yes	Yes	Yes	Yes	Yes
<b>Centrifugal Fan</b>					
Fan Pressure **	-3kPa *	-3kPa *	-3kPa *	-3.5kPa *	-3.5kPa *
Fan Power	55kW	90kW	110kW	250kW	250kW / 315kW
Variable Air Volume Control	Yes	Yes	Yes	Yes	Yes
Fan Silencer	Yes	Yes	Yes	Yes	Yes

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	JMS 10 M-SERIES	JMS 20 M-SERIES	JMS 30 M-SERIES	JMS 40 M-SERIES	JMS 50 M-SERIES
<b>Discharge System</b>					
Hydraulic Reversible Augers	Yes	Yes	Yes	Yes	Yes
Main Screw Conveyor Auger	1	1	1	2	2
Stainless Steel Rotary Valves	1	1	1	2	2
Incline Screw Conveyor Auger	Option: Front / Side	Option: Front / Side	Option: Front / Side	Side	Side
Slurry Auger (Wet Discharge)	n/a	n/a	n/a	Option	Option
Shotcrete Auger	n/a	n/a	n/a	Option	Option
<b>Control and Monitoring System</b>					
CANBus PLC	Yes	Yes	Yes	Yes	Yes
HMI Touch Screen Display	7" 12" Option	7" 12" Option	7" 12" Option	12"	12"
Static & Differential Pressure Gauges	Yes	Yes	Yes	Yes	Yes
Emissions Monitoring Probe	Yes - 24V	Yes - 24V	Yes - 24V	Yes - 24V	Yes - 24V
Operational Lights & Alarms	Yes	Yes	Yes	Yes	Yes
Work Safety Lights	6 x 24V	6 x 24V	6 x 24V	12 x 24V	12 x 24V
Proximity Sensors	Option	Option	Option	Option	Option
Velocity Probe	Option	Option	Option	Option	Option
Auto Greasing System	Option	Option	Option	Option	Option
<b>Safety Features</b>					
Emergency Stops	1	1	1	2	2
Emergency Stop Lanyard System	Yes	Yes	Yes	Yes	Yes
Amber Rotating Beacons	2	2	2	2	2
Split Battery and Starter Isolator	Yes	Yes	Yes	Yes	Yes
Fire Suppression System	Option	Option	Option	Option	Option

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\*\* Alternative centrifugal fans can be utilised to optimise air volume and pressure to suit site conditions and specific applications.

# Technical Specification

## Hybrid Powered Units - Range Overview

	JMS 40 M-SERIES	JMS 50 M-SERIES	JMS 60 M-SERIES
<b>Overview</b>			
Air Volume	40m³/s	50m³/s	60m³/s
<b>Air Intakes</b>			
Single Air Intake Ø	1600mm	1600mm	1800mm
Dual Air Intake Ø Option	n/a	n/a	n/a
Multiple Air Intakes Ø	4 x 508mm	5 x 508mm	7 x 508mm
<b>Filter Technical Data</b>			
Number of High Efficiency Filters	48	60	84
Total Filter Surface Area	1,344m²	1680m²	2352m²
Filtration Cleaning Efficiency	99.99% at 0.067 micron		
Filtration of Diesel Particulates	Yes	Yes	Yes
Filter Access Doors	8	10	14
Patented Drop Out Box	Yes	Yes	Yes
Estimated Filter Life *	6000 - 9000 hours		
<b>Reverse Pulse Cleaning System</b>			
Reverse Pulse Cleaning Solenoids	16	20	28
On-board Compressor	Yes - 60 CFM	Yes - 60 CFM	Yes - 60 CFM
Plant Air Attachment	Option	Option	Option
Adjustable Pressure & Frequency Rate	Yes	Yes	Yes
Auto Drains	Yes	Yes	Yes
<b>Variable Speed Drive</b>			
Variable Speed Drive (V)	415V / 1000V	415V / 1000V	415V / 1000V
Variable Speed Drive (kW)	250kW	250kW / 315kW	315kW / 450kW
<b>Centrifugal Fan</b>			
Fan Pressure **	-3.5kPa *	-3.5kPa *	-3.5kPa / -5kPa*
Fan Motor (Electric)	250kW	250kW / 315kW	315kW / 450kW
Variable Air Volume Control	Yes	Yes	Yes
Fan Silencer	Yes	Yes	Yes
<b>Discharge System</b>			
Hydraulic Reversible Augers	Yes	Yes	Yes
Main Screw Conveyor Auger	2	2	2
Stainless Steel Rotary Valves	2	2	2
Incline Screw Conveyor Auger	Side	Side	Side
Slurry Auger (Wet Discharge)	Option	Option	Option
Shotcrete Auger	Option	Option	Option

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	JMS 40 M-SERIES	JMS 50 M-SERIES	JMS 60 M-SERIES
<b>Electric Components</b>			
On-board Compressor	Yes	Yes	Yes
Hydraulic Power Pack	7.5kW	7.5kW	7.5kW
<b>Control and Monitoring System</b>			
CANBus PLC	Yes	Yes	Yes
HMI Touch Screen Display	12"	12"	12"
Static & Differential Pressure Gauges	Yes	Yes	Yes
Emissions Monitoring Probe	Yes - 24V	Yes - 24V	Yes - 24V
Operational Lights & Alarms	Yes	Yes	Yes
Work Safety Lights	12 x 24V	12 x 24V	16 x 24V
Velocity Probe	Yes	Yes	Yes
Auto Greasing System	Option	Option	Option
<b>Safety Features</b>			
Emergency Stops	2	2	2
Emergency Stop Lanyard System	Yes	Yes	Yes
Amber Rotating Beacons	2	2	2
Split Battery and Starter Isolator	Yes	Yes	Yes
Fire Suppression System	Option	Option	Option
<b>Track System Option</b>			
Diesel Engine	T4F/5	T4F/5	n/a
Hydraulic Tank Capacity	500L	500L	n/a
Diesel Tank Capacity	220L	220L	n/a
AdBlue Tank Capacity	45L	45L	n/a
Remote Control	Yes	Yes	n/a
Tracking Speed	2-4 k.p.h.	2-4 k.p.h.	n/a
<b>Stepping System Option</b>			
Diesel Engine	T2	T2	T2
Hydraulic Tank Capacity	85L	85L	85L
Lifting Cylinder Size	4"	4"	5"
Push Cylinder Size	5"	5"	5"
Remote Control	Yes	Yes	Yes
Movement Per Cycle (m)	600mm	600mm	600mm