

# Technical Specification

## 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	20,000CFM (10m <sup>3</sup> /s)	40,000CFM (20m <sup>3</sup> /s)	60,000CFM (30m <sup>3</sup> /s)	85,000CFM (40m <sup>3</sup> /s)	105,000CFM (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	48gal (220L)	48gal (220L)	48gal (220L)	2 x 88gal (2 x 400L)	2 x 88gal (2 x 400L)
Adblue Tank	5.5gal (25L)	9.9gal (45L)	9.9gal (45L)	15.4gal (70L)	15.4gal (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	23.6in (600mm)	44in (1118mm)	54in (1372mm)	63in (1600mm)	63in (1600mm)
Dual Air Intake Ø - Option	2 x 13.8in (2 x 350mm)	2 x 20in (2 x 508mm)	2 x 20in (2 x 508mm)	n/a	n/a
Multiple Air Intakes Ø	n/a	n/a	4 x 20in (4 x 508mm)	Option: 4 x 20in (4 x 508mm)	Option: 5 x 20in (5 x 508mm)
<b>Filter Technical Data</b>					
Number of High Efficiency Filters	18	24	32	48	60
Total Filter Surface Area	5,425ft <sup>2</sup> (504m <sup>2</sup> )	7,233ft <sup>2</sup> (672m <sup>2</sup> )	9,644ft <sup>2</sup> (896m <sup>2</sup> )	14,467ft <sup>2</sup> (1,344m <sup>2</sup> )	18,083ft <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 **	12iwg (-3kPa)	12iwg (-3kPa)	12iwg (-3kPa)	14iwg (-3.5kPa)	14iwg (-3.5kPa)
Fan Power	74hp (55kW)	120hp (90kW)	147hp (110kW)	335hp (250kW)	335hp / 422hp (250kW / 315kW)
Variable Air Volume Control	Yes	Yes	Yes	Yes	Yes
Fan Silencer	Yes	Yes	Yes	Yes	Yes

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<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	7in 12in Option	7in 12in Option	7in 12in Option	12in	12in
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

\*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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## 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	12,000CFM (6m <sup>3</sup> /s)	20,000CFM (10m <sup>3</sup> /s)	40,000CFM (20m <sup>3</sup> /s)	60,000CFM (30m <sup>3</sup> /s)	85,000CFM (40m <sup>3</sup> /s)	105,000CFM (50m <sup>3</sup> /s)	125,000CFM (60m <sup>3</sup> /s)
<b>Electric Power Options</b>							
Electric Power Options	380-480V	380-480V	380-480V	380-480V	380-480V / 1000V	380-480V / 1000V	380-480V / 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	23.6in (600mm)	23.6in (600mm)	44in (1118mm)	54in (1372mm)	63in (1600mm)	63in (1600mm)	70.9in (1800mm)
Dual Air Intake Ø - Option	n/a	2 x 13.8in (350mm)	2 x 20in (508mm)	2 x 20in (508mm)	n/a	n/a	n/a
Multiple Air Intakes Ø	n/a	n/a	n/a	4 x 20in (4 x 508mm)	Option: 4 x 20in (4 x 508mm)	Option: 5 x 20in (5 x 508mm)	Option: 7 x 20in (7 x 508mm)
<b>Filter Technical Data</b>							
Number of High Efficiency Filters	12	16	24	32	48	60	84
Total Filter Surface Area	3100ft <sup>2</sup> (288m <sup>2</sup> )	4,822ft <sup>2</sup> (448m <sup>2</sup> )	7,233ft <sup>2</sup> (672m <sup>2</sup> )	9,644ft <sup>2</sup> (896m <sup>2</sup> )	14,467ft <sup>2</sup> (1,344m <sup>2</sup> )	18,083ft <sup>2</sup> (1680m <sup>2</sup> )	25,317ft <sup>2</sup> (2352m <sup>2</sup> )
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 **	10iwg (-2.5kPa)	12iwg (-3kPa)	12iwg (-3kPa)	12iwg (-3kPa)	14iwg (-3.5kPa)	14iwg (-3.5kPa)	14iwg / 18iwg (-3.5kPa / -5kPa)
Fan Power (Electric)	50hp (37kW)	50hp (37kW)	120hp (90kW)	147hp (110kW)	335hp (250kW)	335hp / 422hp (250kW / 315kW)	422hp / 603hp (315kW / 450kW)
Fan Silencer	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Variable Speed Drive</b>							
Variable Speed Drive (V)	380-480V	380-480V	380-480V	380-480V	380-480V / 1000V	380-480V / 1000V	380-480V / 1000V
Variable Speed Drive (kW)	50hp (37kW)	50hp (37kW)	120hp (90kW)	147hp (110kW)	335hp (250kW)	335hp / 422hp (250kW / 315kW)	422hp / 603hp (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	9.9gal (45L)	n/a	13.2gal (60L)	13.2gal (60L)	13.2gal (60L)	13.2gal (60L)	13.2gal (60L)
<b>Electric Components</b>							
On-board Compressor	Option	Yes	Yes	Yes	Yes	Yes	Yes
Hydraulic Power Pack	5hp (4kW)	n/a	10hp (7.5kW)	10hp (7.5kW)	10hp (7.5kW)	10hp (7.5kW)	10hp (7.5kW)
<b>Control and Monitoring System</b>							
CANBus PLC	Yes	n/a	Yes	Yes	Yes	Yes	Yes
HMI Touch Screen Display	7in 12in Option	n/a	7in 12in Option	7in 12in Option	12in	12in	12in
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 hp (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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## Hybrid Powered Units - Range Overview

	JMS 40 M-SERIES	JMS 50 M-SERIES	JMS 60 M-SERIES
<b>Overview</b>			
Air Volume	85,000CFM (40m <sup>3</sup> /s)	105,000CFM (50m <sup>3</sup> /s)	125,000CFM (60m <sup>3</sup> /s)
<b>Air Intakes</b>			
Single Air Intake Ø	63in (1600mm)	63in (1600mm)	70.9in (1800mm)
Dual Air Intake Ø Option	n/a	n/a	n/a
Multiple Air Intakes Ø	Option: 4 x 20in (4 x 508mm)	Option: 5 x 20in (5 x 508mm)	Option: 7 x 20in (7 x 508mm)
<b>Filter Technical Data</b>			
Number of High Efficiency Filters	48	60	84
Total Filter Surface Area	14,467ft <sup>2</sup> (1,344m <sup>2</sup> )	18,083ft <sup>2</sup> (1680m <sup>2</sup> )	25,317ft <sup>2</sup> (2352m <sup>2</sup> )
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>Centrifugal Fan</b>			
Fan Pressure **	-3.5kPa *	-3.5kPa *	-3.5kPa / -5kPa*
Fan Motor (Electric)	335hp (250kW)	335hp / 422hp (250kW / 315kW)	422hp / 603hp (315kW / 450kW)
Variable Air Volume Control	Yes	Yes	Yes
Fan Silencer	Yes	Yes	Yes
<b>Variable Speed Drive</b>			
Variable Speed Drive (V)	380-480V / 1000V	380-480V / 1000V	380-480V / 1000V
Variable Speed Drive (kW)	335hp (250kW)	335hp / 422hp (250kW / 315kW)	422hp / 603hp (315kW / 450kW)
<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	10hp (7.5kW)	10hp (7.5kW)	10hp (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	1-3mph (2-4 kph)	1-3mph (2-4 kph)	1-3mph (2-4 kph)
<b>Stepping System Option</b>			
Diesel Engine	T2	T2	T2
Hydraulic Tank Capacity	18.7gal (85L)	18.7gal (85L)	18.7gal (85L)
Lifting Cylinder Size	4in	4in	5in
Push Cylinder Size	5in	5in	5in
Remote Control	Yes	Yes	Yes
Movement Per Cycle (m)	23.6in (600mm)	23.6in (600mm)	23.6in (600mm)