

Airless

Pavement marking machine

The MB Airless paint system is a high-pressure striping system built for precision and efficiency. A piston pump—operated hydraulically or by air—delivers paint at 800 to 2,000 PSI to a specialized airless paint gun. A low-pressure pump is used to charge the high-pressure pump, transferring material from the paint tank or heat exchangers. This high pressure, combined with a precise small tip, will produce clean, sharp-edged line patterns with excellent definition. The system supports flexible material handling with the ability to draw paint directly from manufacturer tote tanks, drums or non-pressurize paint tanks.

Highlights

- **Airless system – Deliver Precision Striping for Demanding, High-Traffic Projects**
- **Configurable guidance options** including left and right-side guidance camera system, optical sight, laser, and hydraulic pointer and more
- **Flexible control systems** with Skipline, handheld remotes, and joystick operation
- **Gun height adjustment** and **insullated paint lines** ensure crisp, clean application
- **Multiple gun systems available**: paint and bead guns from Kamber and Graco

Your benefits

- **Sharpest line patterns** – Consistent pressure control for crisp markings
- **Efficient at high speeds** – Maintains accuracy during fast striping operations
- **Greater capacity on a smaller chassis** – Maximizes productivity without added bulk
- **Simple to operate and maintain** – Intuitive design with easy service access
- **Highly reliable** – Durable components built for long-term performance

Performance features

Chassis

Choose from Peterbilt, Isuzu, Mack, Autocar, Battle Motors, Freightliner, or International chassis, available in single axle, single axle with lift axle, tandem axle, or tandem axle with lift axle configurations. Chassis are available with gas, diesel, or CNG fuel options to match your operational and environmental requirements. Each chassis is engineered to meet the specific needs of the striping machine, and dual steer options are available for enhanced maneuverability.
MB chassis solutions are highly customizable, allowing each unit to be configured based on your operational needs, local regulations, and preferred platform layout.







Striping Platform

Designed with operator safety and convenience in mind – The truck features multiple forms of egress, including rear steps with anti-skid material for safe access to the rear operator area. A 12“ wide rear bumper provides space for mounting optional equipment such as toolboxes, hose reels, and paint manifolds. Multiple access ladders and bolt-down railings ensure safe operation and allow easy removal and replacement for servicing. The striping platform is available with diamond tread plate or smooth surface with tread tape, and can be configured in steel or aluminum to meet specific requirements.

Striping Equipment

The striping equipment features a linear bearing vertical lift carriage mounted on dual outriggers for smooth, stable operation. Gun mounts accommodate air jets, paint guns, and bead guns, while multiple bead systems—including double drop and Visilok—offer versatile application options. Pressure vessels maintain a constant, regulated pressure to ensure precise paint flow to the gun tips, while ASME certified glass bead tanks deliver consistent media application. Air jets help clear debris to maintain clean lines. A hand painting gun is available, with or without a reel and beads. Choose between rear or mid-mount carriages featuring auto-lock stowage and optional rumble strip avoidance for smooth performance. Choose between single or dual wheel carriages, with a selection of standard or aircraft-style wheels. The optional Visilok system also accelerates paint curing, helping reduce drying time and boost productivity.

Paint and Pump System

Designed for high-performance striping, the airless paint system combines low-pressure 2“ diaphragm pumps with high-pressure paint pumps from ARO, Titan, or Graco—available in hydraulic or air-driven motor configurations ranging from 8.3 to 18 GPM. The pumps are equipped with surge suppression technology, using either a surge chamber or accumulator, ensures a smooth and consistent material flow. For precise application control, paint heating systems and gun height adjusters are available. The system supports flexible gun setups, including high-build double gun configurations, and offers one, two, or three-color application systems. An optional “any color–any gun” paint manifold adds even more versatility to match complex marking requirements with ease.

Air Compressor

Reliable power on demand. Diesel-powered utility skid air compressors—including Boss 210/250 and Sullivan Pallatek 260—run on a robust 74 HP John Deere 4045D engine, delivering consistent performance with Tier 4 Final EPA compliance. For smaller capacity needs, gasoline engine power packs with air compressors ranging from 25 to 85 CFM are available, providing flexible solutions to meet specific application requirements.

Operator Controls & Safety Systems

Operator safety and comfort are built into every detail of the system. Secure seatbelt restraints and ergonomic seating support long shifts, while optional ROPs (Roll Over Protection Systems) and available crash attenuators offer added protection in high-risk environments. A range of operator stations—including open canopy or fully enclosed climate-controlled cabs in various configurations—can be equipped with bubble windows, sliding or swinging doors. In the rear operator cab,

precise control of paint and atomizing pressure gives operators the ability to fine-tune application for consistent line quality. Communication is clear and reliable with your choice of wireless or hardwired headsets.
Line application guidance/carriage steering options include hydraulic or steer-by-wire steering wheels, joysticks, or Limntech automated operator systems. Additional guidance support includes rear-view camera systems (with optional DVR for traffic recording), guidance cameras, hydraulic pointers, driver and operator lasers, and bomb sights.
Control and data logging options range from automated skip controllers and handheld remotes to full material management and reporting systems. Lighting safety features such as night lighting, strobes, and message or arrow boards ensure maximum visibility and operational safety in all conditions.

Options

A wide range of configurable options is available for the MB Airless pavement marking machine, allowing each system to be tailored precisely to the specific needs and preferences:

- Multiple bead systems available: Double drop and Visilok options
- Flexible paint gun configurations available including high build double gun
- 1-3 paint color application systems available
- «Any color-any gun» paint manifold
- Hand painting gun with or without reel and with or without beads
- Paint heat and gun height adjuster options for superior control of paint application precision
- Single wheel or dual wheel carriages available with optional rumble strip avoidance system and standard or aircraft style wheels
- Optional cone setting deck, crash attenuator and toolboxes
- Mid-mount or rear mount striping carriages available
- Air jets to clear debris
- Cleaning systems available for line flush and wash down
- Guidance systems, line guidance camera system with outriggers and monitor, hydraulic pointer, laser for driver, lasers for operators, bomb sight
- Line application guidance including steering wheels (hydraulic), joysticks or Limntech automated operator systems
- Lighting safety options including light bars, night lighting, strobes and message or arrow boards
- Communications systems: wireless or hardwired headsets
- Controls/data logging including skip controllers, full data recording, hand-held remote controls and variable material management systems. Skipline SC-12, MST-14, and Epic Solutions timers are available.
- Operator stations: No cover, open canopy, climate-controlled enclosure (square cab, hi-vis cab, bay window cab - all with or without bubble windows and choices of sliding or swinging doors) with or without ROPs system

Customized solutions

Alternate configurations are available for single-operator units, including models 245 and 260RS. Palletized, removable systems can be designed for flatbed trucks, while utility vehicle-mounted and stencil marking units offer added flexibility for specific applications. Chassis PTO drive options can also be integrated.
MB Pavement specializes in engineering fully customized solutions—designed from the ground up to match each customer's specific operational needs. From machine layout to specialized components, every detail is adapted to ensure that your pavement marking machine aligns seamlessly with your workflow, vehicle platform, and performance expectations.

Gallery





Related products

Pressure Pot

Pavement marking machine



Pumper

Pavement marking machine



Technical data

	MAXI 110 A DRUM	MAXI 240A	MAXI 500A
Truck Chassis			
Chassis Model	Isuzu NPRHD	Isuzu FTR	Isuzu FVR
US Truck Class	4	6	7
Chassis GVWR	14,500 lbs	25,900 lbs	33,000 lbs
Chassis Engine	GMPT-V8 (6.6L)	Cummins B6.7 (6.7L)	Cummins B6.7 (6.7L)
Chassis Engine Performance	350 HP (4,500 1/min)	260 HP (2,400 1/min)	260 HP (2,400 1/min)
Front Axle & Suspension Type	Leaf spring steer axle, 6.6k GAWR	Dana E-1254W steer axle, 12k GAWR	Dana E-1254W steer axle, 12k GAWR
Rear Axle & Suspension Type	Leaf spring axle, 11k GAWR Single	Air spring Dana S19-140, 19k GAWR	Air spring Dana S21-140, 21k GAWR
Chassis Wheelbase	11‘ 1“	12‘ 8“	14‘ 2“
Overall Truck Length (Approx.)	21‘	28‘	29‘
Overall Truck Height (Approx.)	10 1/2‘	11‘	11‘
Turning Radius (Curb to Curb)	20‘	21.8‘	23.7‘
Fuel Type	Gas	Diesel	Diesel
Fuel Tank Size	30 gal	50 gal	50 gal
Equipement Platform			
Material of Construction	Aluminum	Structural steel	Aluminum
Deck Surface	Flat sheet aluminum with abrasive grip tape	Flat sheet steel with abrasive grip tape	Flat sheet aluminum with abrasive grip tape
Overall Width	7‘ 4“	8‘	8‘
Overall Length	12‘ 6“	16‘ 8“	18‘ 6“
Riser Height	7 1/2“	8“	8“
Equipement Utilities			
Auxiliary Engine	Honda GX690 23hp Gasoline Engine	74 hp Tier 4F diesel engine	74 hp Tier 4F diesel engine
Air Compressor Model	Chinook K35 rotary piston compressor, 30 cfm	BOSS 210 utility skid rotary screw compressor	BOSS 210 utility skid rotary screw compressor
Air Dryer	Laman 110 dryer	Schmidt coalescing dryer	Schmidt coalescing dryer
Hydraulic Pump	Pressure compensated piston pump, belt drive	Load sense piston pump, engine aux drive	Load sense piston pump, engine aux drive
Hydraulic System Type	Open center, with return filter & cooler	Open center, with return filter & cooler	Open center, with return filter & cooler
Hydraulic Reservoir	2 gal	50 gal	50 gal
Cleaner System			
Cleaner Tank Type	–	Stainless steel ASME	Stainless steel ASME
Cleaner Tank Capacity	–	20 gal	20 gal
Gun Flushing	Manual flush through paint draw tube or low pressure ports	Fill/HP Pump flush, Flush-on-the-fly available as option	Fill/HP Pump flush, Flush-on-the-fly available as option
Application Material System			
Material Tank Type	Customer supplied drums (stainless steel)	Stainless steel non-pressure round tanks with hydraulic agitator	Stainless steel non-pressure round tanks with hydraulic agitator
Material Tank Quantity	2	2	2
Material Pumps	Titan 8.3 GPM (high pressure only)	1-1/2“ MB Diaphragm pumps with PTFE seals and balls (low pressure) / Titan 12.9 GPM (high pressure)	2“ MB Diaphragm pumps with PTFE seals and balls (low pressure) / Titan 12.9 GPM (high pressure)
Material Plumbing	2“ Stainless steel threaded plumbing (low pressure) / Schedule 80 stainless steel, teflon/nylon braided hoses rated 2,000+ psi (high pressure)	2“ Stainless steel sanitary process plumbing (low pressure) / Schedule 80 stainless steel, teflon hoses rated 2,000+ psi (high pressure)	2“ Stainless steel sanitary process plumbing (low pressure) / Schedule 80 stainless steel, teflon hoses rated 2,000+ psi (high pressure)
Material Manifold Filter	2“ Y-strainers (low pressure) / Graco 30 mesh filter, plated steel (high pressure)	Stainless steel with sanitary clamp end and 100 sq in filter (low pressure) / ARO 30 mesh filter, stainless steel (high pressure)	Stainless steel with sanitary clamp end and 100 sq in filter (low pressure) / ARO 30 mesh filter, stainless steel (high pressure)
Glass Bead System			
Glass Bead Tank Type	Steel ASME with (3) sight gauges	Steel ASME with (3) sight gauges	Steel ASME with (3) sight gauges
Glass Bead Tank Quantity	1	1	1
Glass Bead Tank Capacity	750 lbs	1,500 lbs	3,000 lbs

	MAXI 110 A DRUM	MAXI 240A	MAXI 500A
Glass Bead Loading	Vacuum fill with jet pump	Vacuum fill with jet pump	Vacuum fill with jet pump
Loading Rate	–	200 lbs/min	200 lbs/min
Glass Bead Plumbing	1-1/2“ NPT threaded	2“ Sanitary and/or NPT	2“ Sanitary and/or NPT
Glass Bead Manifold	Steel with sanitary clamp end	Steel with sanitary clamp end	Steel with sanitary clamp end
Glass Bead & Paint Guns, Air Blowers			
Paint Guns	Graco 238-377	Graco 238-377	Graco 238-377
Paint Gun Quantity	3	4	4
Glass Bead Guns	Graco 238-338	Graco 238-338	Graco 238-338
Glass Bead Gun Quantity	3	3	3
Air Blowers	–	3	3
Outrigger & Carriage Type			
Outrigger Location	Midship	Rear	Rear
Carriage Style	Parallel linkage lift with pneumatic cylinder	Linear bearing vertical lift with pneumatic cylinders	Linear bearing vertical lift with pneumatic cylinders
Outrigger Travel	48“	48“	48“
LH Carriage Wheel Quantity	1	2	2
RH Carriage Wheel Quantity	1	1	1
Operator Area			
Operator Cover Type	Canopy	Canopy	Canopy
Operator Seats	(2) Toolbox mounted vinyl low back seats	(2) Air ride vinyl high back seats	(2) Air ride vinyl high back seats
Control Box Mounts	Weatherproof enclosures on RAM ball mounts	Weatherproof enclosures on RAM ball mounts	Weatherproof enclosures on RAM ball mounts
Equipment Controls			
Outrigger Steering	Tilting & telescoping steering columns	Tilting & telescoping steering columns	Tilting & telescoping steering columns
Operator Console	–	Single rear console	Single rear console
Skip Timer Control Boxes	(2) Skipline SC-12	(2) Skipline SC-12	(2) Skipline SC-12
Digital Speed Meter	In front cab	In front cab	In front cab
Lighting			
Cab Lights	–	Amber LED light bar	Amber LED light bar
Platform ICC Lights	3/4“ LED Marker lights	3/4“ LED Marker lights	3/4“ LED Marker lights
Carriage Lights	Red/white flashers	Red/white flashers	Red/white flashers
Safety			
Fire Extinguishers	(1) 5# in cab / (1) 10# on platform	(1) 5# in cab / (1) 10# on platform	(1) 5# in cab / (1) 10# on platform
Ladders	(1) Ladders and rear steps	(3) Ladders and rear steps	(3) Ladders and rear steps
Platform Railings	42“ Square tube railing / rounded corners / bolt-on	42“ Square tube railing / rounded corners / bolt-on	42“ Square tube railing / rounded corners / bolt-on

	MAXI 550A TOTE	MAXI 800A
Truck Chassis		
Chassis Model	Isuzu FVR	Peterbilt 520
US Truck Class	7	8
Chassis GVWR	33,000 lbs	60,000 lbs
Chassis Engine	Cummins B6.7 (6.7L)	Paccar PX-9 (8.9L)
Chassis Engine Performance	260 HP (2,400 1/min)	2,000 1/min
Front Axle & Suspension Type	Dana E-1254W steer axle, 12k GAWR	Paccar FX-20 steer axle, 20k GAWR
Rear Axle & Suspension Type	Air spring Dana S21-140, 21k GAWR	Air spring Dana DSP41, 40k GAWR
Chassis Wheelbase	14‘ 2“	14‘ 2“
Overall Truck Length (Approx.)	29‘	33‘
Overall Truck Height (Approx.)	11‘	11 1/2‘
Turning Radius (Curb to Curb)	23.7‘	32‘
Fuel Type	Diesel	Diesel
Fuel Tank Size	50 gal	80 gal

	MAXI 550A TOTE	MAXI 800A
Equipement Platform		
Material of Construction	Aluminum	Structural steel
Deck Surface	Flat sheet aluminum with abrasive grip tape	Flat sheet steel with abrasive grip tape
Overall Width	8‘	8‘
Overall Length	18‘ 6“	22‘ 8“
Riser Height	8“	8“
Equipement Utilities		
Auxiliary Engine	74 hp Tier 4F diesel engine	74 hp Tier 4F diesel engine
Air Compressor Model	BOSS 210 utility skid rotary screw compressor	BOSS 210 utility skid rotary screw compressor
Air Dryer	Schmidt coalescing dryer	Schmidt coalescing dryer
Hydraulic Pump	Load sense piston pump, engine aux drive	Load sense piston pump, engine aux drive
Hydraulic System Type	Open center, with return filter & cooler	Open center, with return filter & cooler
Hydraulic Reservoir	50 gal	50 gal
Cleaner System		
Cleaner Tank Type	Stainless steel ASME	Stainless steel ASME
Cleaner Tank Capacity	20 gal	40 gal
Gun Flushing	Fill/HP Pump flush, Flush-on-the-fly available as option	Fill/HP Pump flush, Flush-on-the-fly available as option
Application Material System		
Material Tank Type	Customer-supplied tote (poly or stainless steel)	Stainless steel rectangular bulk tank, 2 compartments, hydraulic agitators
Material Tank Quantity	2	2
Material Pumps	2“ MB Diaphragm pumps with PTFE seals and balls (low pressure) / Titan 12.9 GPM (high pressure)	2“ MB Diaphragm pumps with PTFE seals and balls (low pressure) / Titan 12.9 GPM (high pressure)
Material Plumbing	2“ Stainless steel sanitary process plumbing (low pressure) / Schedule 80 stainless steel, teflon hoses rated 2,000+ psi (high pressure)	2“ Stainless steel sanitary process plumbing (low pressure) / Schedule 80 stainless steel, teflon hoses rated 2,000+ psi (high pressure)
Material Manifold Filter	Stainless steel with sanitary clamp end and 100 sq in filter (low pressure) / ARO 30 mesh filter, stainless steel (high pressure)	Stainless steel with sanitary clamp end and 100 sq in filter (low pressure) / ARO 30 mesh filter, stainless steel (high pressure)
Glass Bead System		
Glass Bead Tank Type	Steel ASME with (3) sight gauges	Steel ASME with (3) sight gauges
Glass Bead Tank Quantity	1	1
Glass Bead Tank Capacity	3,000 lbs	5,000 lbs
Glass Bead Loading	Vacuum fill with jet pump	Vacuum fill with jet pump
Loading Rate	200 lbs/min	200 lbs/min
Glass Bead Plumbing	2“ Sanitary and/or NPT	2“ Sanitary and/or NPT
Glass Bead Manifold	Steel with sanitary clamp end	Steel with sanitary clamp end
Glass Bead & Paint Guns, Air Blowers		
Paint Guns	Graco 238-377	Graco 238-377
Paint Gun Quantity	4	4
Glass Bead Guns	Graco 238-338	Graco 238-338
Glass Bead Gun Quantity	3	3
Air Blowers	3	3
Outrigger & Carriage Type		
Outrigger Location	Rear	Rear
Carriage Style	Linear bearing vertical lift with pneumatic cylinders	Linear bearing vertical lift with pneumatic cylinders
Outrigger Travel	48“	48“
LH Carriage Wheel Quantity	2	2
RH Carriage Wheel Quantity	1	1

	MAXI 550A TOTE	MAXI 800A
Operator Area		
Operator Cover Type	Canopy	Canopy
Operator Seats	(2) Air ride vinyl high back seats	(2) Air ride vinyl high back seats
Control Box Mounts	Weatherproof enclosures on RAM ball mounts	Weatherproof enclosures on RAM ball mounts
Equipment Controls		
Outrigger Steering	Tilting & telescoping steering columns	Tilting & telescoping steering columns
Operator Console	Single rear console	Single rear console
Skip Timer Control Boxes	(2) Skipline SC-12	(2) Skipline SC-12
Digital Speed Meter	In front cab	In front cab
Lighting		
Cab Lights	Amber LED light bar	Amber LED light bar
Platform ICC Lights	3/4“ LED Marker lights	3/4“ LED Marker lights
Carriage Lights	Red/white flashers	Red/white flashers
Safety		
Fire Extinguishers	(1) 5# in cab / (1) 10# on platform	(1) 5# in cab / (1) 10# on platform
Ladders	(2) Ladders and rear steps	(3) Ladders and rear steps
Platform Railings	42“ Square tube railing / rounded corners / bolt-on	42“ Square tube railing / rounded corners / bolt-on

aebi schmidt group

Aebi Schmidt North America Inc.
201 MB Lane
Chilton, WI 53014, USA
Phone: +1 800 558 5800
www.aebi-schmidt.com

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TELEMET
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Telemet · Office in Chile

Los Canteros 8723, La Reina, Santiago 7880414, Chile

Phone +56 22 356 2735

info@telemet.com

telemet.com