

Thermoplastic

Pavement marking machine

The Thermoplastic Pavement Marking System ensures durable, long-lasting markings by melting granulated material in a precisely temperature-controlled kettle. Material is delivered to the application guns or dies by gravity, pump, or pressure pot, with oil-jacketed lines maintaining temperature for smooth, consistent application. Available in spray, ribbon, screed or extrude systems, the Thermoplastic offers versatile application options and reliable performance for a wide range of marking projects.

Highlights

- **Thermoplastic application system – Delivers durable pavement markings**
- **Multiple Application Methods**: Available in spray, ribbon, and extrude systems
- **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
- **Flexible material delivery**: Available in pumper style, pressure pot, or gravity feed delivery system

Your benefits

- **Precise control** of tempurature and application rate
- **Material line heating** for consistant material application
- Air blow-back system clears material lines for **quick end-of-day maintenance**
- **Highly reliable** – Durable components for consistent performance
- Platform layout designed for **efficient workflow and service access**

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-inch-wide rear bumper provides space for mounting optional equipment such as toolboxes, hose reels, and paint manifolds. Multiple access ladders and bolt-down railings provide safe and convenient access while allowing easy removal and replacement of components for servicing. Integrated loading platforms allow operators to safely load thermoplastic material into the kettles directly from the on-deck storage area.The striping platform itself is available with diamond tread plate or a smooth surface with tread tape and can be configured in steel or aluminum to meet specific requirements.

Striping Equipment

The Thermoplastic system is equipped with a heavy-duty rear-mounted carriage designed for long-lasting performance. Gun mounts accommodate air jets, thermoplastic applicators in spray, ribbon, or screed configurations, as well as glass bead guns, providing flexibility for a wide range of marking applications.

Paint and Pump System

The Thermoplastic system offers multiple delivery options to match different operational needs. Choose between a progressive cavity pump in pumper style, a pressure pot system, or gravity feed. Each setup ensures reliable thermoplastic flow to the applicators, providing consistent performance across spray, ribbon, and screed applications.

Air Compressor

The Thermoplastic system is equipped with a 125 CFM compressor to provide reliable air supply for applicators, bead guns, and cleaning systems.

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. 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, or joysticks. Additional guidance support includes rear-view camera systems (with optional DVR for traffic recording), guidance cameras, hydraulic pointers, driver and operator lasers, and optical sights.
Control and data logging options range from automated skip controllers and handheld remotes to full material manage-

ment 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.
For added security and ease of use, available crash attenuator systems can be integrated, and a safety chute is provided for adding material to kettles.

Options

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

- Multiple bead systems available
- Gun height adjuster options for superior control of thermoplastic application precision
- Flexible thermo gun configurations available including with option for adjustable width ribbon guns
- Lift deck available for easier loading of material into kettles
- Guidance systems, line guidance camera system with outriggers and monitor, hydraulic pointer, laser for driver, lasers for operators, optical sight
- Carriage outrigger steering controls including steering wheels (hydraulic or steer-by-wire), or joysticks
- Lighting safety options including 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
- 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

Boost safety, efficiency, and convenience with tailored options: bright safety and night lighting, handy toolboxes, optional data logging, and a lift deck for effortless material loading into kettles.
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.

Related products

Melter

Pavement marking machine



Epoxy

Pavement marking machine





Enhancing roadway safety through innovation
MB pavement marking solutions deliver reliable performance with precise and consistent results.

Technical data

	TPX 3000 Spray-Ribbon	TPX 5000 Extrude	TPX 6000 Spray-Ribbon
Truck Chassis			
Chassis Model	Isuzu FVR	Peterbilt 520	Peterbilt 520
US Truck Class	7	8	8
Chassis GVWR	33,000 lbs	43,000 lbs	60,000 lbs
Chassis Engine	Cummins B6.7 (6.7L)	Paccar PX-9 (8.9L)	Paccar PX-9 (8.9L)
Chassis Engine Performance	260 HP (2,400 1/min)	360 HP (2,000 1/min)	360 HP (2,000 1/min)
Front Axle & Suspension Type	Dana E-1254W steer axle, 12k GAWR	Paccar FX-20 steer axle, 20k GAWR	Paccar FX-20 steer axle, 20k GAWR
Rear Axle & Suspension Type	Air spring Dana S21-140, 21k GAWR	Air spring Air Trac, 23k GAWR Single	Air spring, 40k GAWR Tandem
Chassis Wheelbase	12‘ 8“	16‘ 8“	17‘
Overall Truck Length (Approx.)	30‘	34‘	36‘
Overall Truck Height (Approx.)	11 1/2‘	12 1/2‘	13‘
Turning Radius (Curb to Curb)	21‘	30.4‘	29‘
Fuel Type	Diesel	Diesel	Diesel
Fuel Tank Size	100 gal	100 gal	100 gal
Equipement Platform			
Material of Construction	Structural steel	Structural steel	Structural steel
Deck Surface	Flat sheet steel with abrasive grip tape	Flat sheet steel with abrasive grip tape	Flat sheet steel with abrasive grip tape
Overall Width	8‘	8‘	8‘
Overall Length	17‘ 6“	22‘ 8“	25‘
Riser Height	5“	5“	5“
Equipement Utilities			
Auxiliary Engine	95hp Tier 4F diesel engine	74 hp Tier 4F diesel engine	95hp Tier 4F diesel engine
Air Compressor Model	Vanair ADHD 125-185 cfm hydraulic driven rotary screw compressor	BOSS 210 utility skid rotary screw compressor	Vanair ADHD 125-185 cfm hydraulic driven rotary screw compressor
Air Dryer	Schmidt coalescing dryer	Schmidt coalescing dryer	Schmidt coalescing dryer
Hydraulic Pump	Multiple gear & piston pumps	Load sense piston pump, engine aux drive	Multiple gear & piston pumps
Hydraulic System Type	Closed & open center, with return filter & cooler	Open center, with return filter & cooler	Closed & open center, with return filter & cooler
Hydraulic Reservoir	–	50 gal	75 gal
Cleaner System			
Gun Flushing	Air blowdown purge	Air blowdown purge	Air blowdown purge
Application Material System			
Material Tank Type	Air jacketed diesel fired kettle with hydraulic driven agitator and single burner	Air jacketed diesel fired kettle with hydraulic driven agitator and single burner	Air jacketed diesel fired kettle with hydraulic driven agitator and single burner
Material Tank Quantity	2	2	2
Material Tank Capacity	1,500 lbs	2,500 lbs	3,000 lbs
Material Pumps	Moyno 1L10 Progressive cavity pump with hydraulic drive	–	Moyno 1L10 Progressive cavity pump with hydraulic drive
Material Plumbing	Insulated hot oil jacketed hoses, piping, manifolds and valves	Insulated hot oil jacketed hoses, piping, manifolds and valves	Insulated hot oil jacketed hoses, piping, manifolds and valves
Material Manifold Filter	Carriage manifold basket strainers	Carriage manifold basket strainers	Carriage manifold basket strainers
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	500 lbs	750 lbs	1,500 lbs
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	200 lbs/min
Glass Bead Plumbing	2“ Sanitary and/or NPT	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

	TPX 3000 Spray-Ribbon	TPX 5000 Extrude	TPX 6000 Spray-Ribbon
Glass Bead & Paint Guns, Air Blowers			
Material Guns	Hornsby 22S Air atomized spray/ ribbon guns	Extrude die with air actuated knife gate and rock hop	Hornsby 22S Air atomized spray/ ribbon guns
Material Gun Quantity	3	3	3
Glass Bead Guns	Graco 238-338	Graco 238-338	Graco 238-338
Glass Bead Gun Quantity	3	3	3
Air Blowers	3	3	3
Outrigger & Carriage Type			
Outrigger Location	Rear	Rear	Rear
Carriage Style	Heavy duty parallel lift with hydraulic cylinders	Heavy duty parallel lift with hydraulic cylinders	Heavy duty parallel lift with hydraulic cylinders
Outrigger Travel	48“	48“	48“
LH Carriage Wheel Quantity	1	1	1
RH Carriage Wheel Quantity	1	1	1
Operator Area			
Operator Cover Type	Canopy	Canopy	Canopy
Operator Seats	(2) Air ride vinyl high 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	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
Gun Elevators	Electric actuator TPX gun elevators, controls in console	Electric actuator TPX gun elevators, controls in console	Electric actuator TPX gun elevators, controls in console
TPX Select Valves	Air operated valves, solenoid valve controls in console	Air operated valves, solenoid valve controls in console	Air operated valves, solenoid valve controls in console
Lighting			
Cab Lights	Amber LED light bar	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	(3) 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
TPX Safety	(2) High temp gloves / (1) Face shield / (1) 5 gallon water tank	(2) High temp gloves / (1) Face shield / (1) 5 gallon water tank	(2) High temp gloves / (1) Face shield / (1) 5 gallon water tank
Heat System			
Hot Oil Heating System	Diesel fired hot oil boiler	Diesel fired hot oil boiler	Diesel fired hot oil boiler
Hot Oil Circulating Pumps	2	1	2
Hot Oil Controls	Speed controls at pumps, hot oil temperature and pressure readings in console	Speed controls at pumps, hot oil temperature and pressure readings in console	Speed controls at pumps, hot oil temperature and pressure readings in console

	TPX 8000 Spray-Ribbon	TPX 12000 Spray-Ribbon
Truck Chassis		
Chassis Model	Peterbilt 520	Peterbilt 520
US Truck Class	8	8
Chassis GVWR	66,000 lbs	79,500 lbs
Chassis Engine	Paccar PX-9 (8.9L)	Paccar PX-9 (8.9L)
Chassis Engine Performance	360 HP (2,000 1/min)	360 HP (2,000 1/min)
Front Axle & Suspension Type	Paccar FX-20 steer axle, 20k GAWR	Paccar FX-20 steer axle, 20k GAWR
Rear Axle & Suspension Type	Air spring, 46k GAWR Tandem	Air spring, 46k GAWR Tandem / EXS13, 13.5k GAWR Self-Str Pusher
Chassis Wheelbase	17‘	20‘ 2“

	TPX 8000 Spray-Ribbon	TPX 12000 Spray-Ribbon
Overall Truck Length (Approx.)	36‘	40‘
Overall Truck Height (Approx.)	13 1/2‘	13‘
Turning Radius (Curb to Curb)	29‘	34.4‘
Fuel Type	Diesel	Diesel
Fuel Tank Size	100 gal	180 gal
Equipement Platform		
Material of Construction	Structural steel	Structural steel
Deck Surface	Flat sheet steel with abrasive grip tape	Flat sheet steel with abrasive grip tape
Overall Width	8‘	8‘
Overall Length	25‘	28‘ 6“
Riser Height	5“	5“
Equipement Utilities		
Auxiliary Engine	95hp Tier 4F diesel engine	95hp Tier 4F diesel engine
Air Compressor Model	Vanair ADHD 125-185 cfm hydraulic driven rotary screw compressor	Vanair ADHD 125-185 cfm hydraulic driven rotary screw compressor
Air Dryer	Schmidt coalescing dryer	Schmidt coalescing dryer
Hydraulic Pump	Multiple gear & piston pumps	Multiple gear & piston pumps
Hydraulic System Type	Closed & open center, with return filter & cooler	Closed & open center, with return filter & cooler
Hydraulic Reservoir	75 gal	75 gal
Cleaner System		
Gun Flushing	Air blowdown purge	Air blowdown purge
Application Material System		
Material Tank Type	Air jacketed diesel fired kettle with hydraulic driven agitator and single burner	Air jacketed diesel fired kettle with hydraulic driven agitator and single burner
Material Tank Quantity	2	4
Material Tank Capacity	4,000 lbs	3,000 lbs
Material Pumps	Moyno 1L10 Progressive cavity pump with hydraulic drive	Moyno 1L10 Progressive cavity pump with hydraulic drive
Material Plumbing	Insulated hot oil jacketed hoses, piping, manifolds and valves	Insulated hot oil jacketed hoses, piping, manifolds and valves
Material Manifold Filter	Carriage manifold basket strainers	Carriage manifold basket strainers
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	1,500 lbs	2,000 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		
Material Guns	Hornsby 22S Air atomized spray/ ribbon guns	Hornsby 22S Air atomized spray/ ribbon guns
Material Gun Quantity	3	3
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	Heavy duty parallel lift with hydraulic cylinders	Heavy duty parallel lift with hydraulic cylinders
Outrigger Travel	48“	48“
LH Carriage Wheel Quantity	1	1
RH Carriage Wheel Quantity	1	1

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Heat System		
Hot Oil Heating System	Diesel fired hot oil boiler	Diesel fired hot oil boiler
Hot Oil Circulating Pumps	2	2
Hot Oil Controls	Speed controls at pumps, hot oil temperature and pressure readings in console	Speed controls at pumps, hot oil temperature and pressure readings in console

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