

PT SRM PRO Series

Asphalt Recyclers

Product Catalog

Your Leader in Mobile

Asphalt Recycling

www.asphaltrecycling.com

PTIC

Pavement Technologies International Corp.
1525 Western Avenue,
Albany, New York 12203



PT-SRM 10 Mobile Recycler



BENEFITS

- Recycles Millings, Small Chunks
- Produces Virgin HMA, Cold Patch
- Mobile
- Batch Recycling (10 minutes, 3 tph)
- Loading Conveyor
- Loading Equipment Not Needed
- Heated 120 Gallon Pumping Kettle
- Tack Coating Spray System
- Additive Metering System
- Auger Discharge
- 300° F Hot Mix Year Round 24/7
- One Man Operation

YEAR ROUND HOT MIX: 24/7, Nights, Weekends & Winters.

RECYCLE RAP / PRODUCE VIRGIN HMA: Designed to recycle RAP millings and asphalt chunks as well as produce virgin hot mix asphalt & high performance cold patch.

QUICK BATCH TIME: The average output capacity is 3 tons per hour, with 4 tph achievable under dry conditions. A 1/2 ton batch of RAP can usually be recycled to 350°F in 8 minutes. Recycling time will vary depending on RAP moisture content.

PT-SRM10 Mobile Asphalt Recycler offers you the ability to produce virgin hot mix, cold-patch, colored mixes and specialty blends. It is a favorite of airports and municipalities who depend on having hot mix year round. The recycler can be loaded directly from the towing vehicle eradicating the need to haul a loader to the jobsite. This reduces needed manpower, costs and your carbon footprint. The unit will recycle a 1/2 ton batch in just 10 minutes providing excellent output for demanding patch crews. If permanent repairs are what you want, they you'll appreciate the heated tack tank and applicator wand for quick tack coating of the repair area.

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From RAP to Hot Mix In just minutes

PROVEN SUCCESSFUL: The US Air Force, Hobby Airport Houston TX, Lambert Airport IL, Aeropuertos Dominicana Dominican Republic and others have come to rely on the PT-SRM Recycler's dependability, especially in winter when the HMA plants are shut down. The PT-SRM10 produces high quality HMA for their runway repairs, keeping the planes landing on a busy schedule.

CONTROLS

The control panel is safely located on the curbside of the machine with all controls switch activated for operator convenience. A batch of RAP can be preheating in the load hopper while a 2nd batch is being recycled, speeding up the process.

A count down timer shuts the burner off after 10 minutes to prevent overheating. Material can be discharged at low or high speed. Material can be discharged at low or high speed.

PATCHING Recycled asphalt can be kept hot within the machine for a full day, simply add heat as needed and discharge at will, the full batch or just a shovel full. The design allows for low or high speed discharge to a bucket, shovel platform or ground.

TOW & GO: The PT-SRM10 is completely mobile and at just 8,900.lbs the recycler is easily towed to the job site behind a 1 ton dump truck. A skid mount option is also available.

LOADING Load the towing vehicle with a full day's supply of RAP millings and head to the jobsite. You can produce your first batch before leaving the yard or right on site. Ideally, use a salt spreader box or a dump truck with a center grain shoot to load millings directly into the recycler's receiving bin.



For loading small asphalt chunks the recycler can be equipped with an 8' overhead loading bin in lieu of a conveyor loader. An optional front load bin is available for bucket loading millings to the conveyor.



PT-SRM 20 Asphalt Recycler

The PT-SRM20 Mobile Asphalt Recycler is designed for continual feed recycling of asphalt millings and to produce cold patch or other specialty products. Dial in your setting and then just keep the top feed bin fed with RAP millings. The discharge conveyor allows for convenient load-out directly to your dump truck or hotbox with recycling rates of approximately 6tph and cold patch production rates of around 12tph. The onboard 120 gallon tank allows you to meter in an additive modifier such as Sunoco Hydrolene or performance grade asphalt. This assures production of high quality asphalt throughout the work day on a continual basis.

Heating of the mixing chamber uses 4 diesel fired Beckett burners. The burners use an indirect heat process which conducts heat through the mixing chamber walls. This prevents the flames from contacting the RAP material reducing airborune emissions. This indirect heating also yields excellent retention of essential tar oils resulting in higher quality recycled hot mix.

The Additive Kettle is located on the rear left side of the recycler. It has a 120 US Gal (454 Liters) capacity and is heated by a Beckett burner. A safety loading shoot allows meltable materials to be safely loaded without splash back.

The burner fires into a flue tube submerged at the bottom of the kettle. The material temperature is controlled by a thermostat that can be set from 0 - 550°F (-18 - 288C). The temperature is visible on an LCD display on the control panel.

A hydraulically driven pump pumps the heated material into the mixing chamber at a controlled rate. The pumping rate is adjustable and can be monitored on an LCD digital display at the control panel. The pump has the ability to circulate the heated material within the kettle for quicker heat up times and is designed to purge material from the pump and plumbing lines prior to shut down. A flush tank allows solvent to be pumped through the system for clean out.



CRACK FILLING The recycler can also be equipped with an optional hot pour crack sealing system with a heated hose and applicator wand. Material is easily loaded through the safety loading door. Optionally an overnight heater provides quicker melt time.

Automatic Controls allow you to dial in your auger feed rate, mixer speed, additive temperature and flow rate. This allows the recycler to be operated and loaded by one person.

The conveyor can be raised and lowered via an electric winch and has the unique ability to fold in half, making it easy to transport your recycler from one job site to another. Additive Tank: The onboard 120 Gal. heated material tank with thermostat is designed to pump heated rejuvenator to the mixing chamber. The material temperature and flow rate can be preset from the control panel allowing the process to be fully automated. An onboard flush tank allows the plumbing to be cleaned out.

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Continual Feed Asphalt Recycler



BENEFITS

- Recycles Millings
- Produces Virgin HMA, Cold Patch
- Mobile
- Continuous Feed Recycling (6tph)
- Cold Patch Production (12tph)
- Off-Loading Conveyor
- Heated 120 Gallon Kettle
- Additive Metering System
- Auger Discharge
- 300° F Hot Mix Year Round 24/7
- One Man Operation

Power is supplied by a turbo-charged 44.5 hp, 4 cylinder liquid cooled diesel engine. The engine drives a hydraulic pump operating the feed auger, both mixers, the kettle pump and conveyor.

Fuel is supplied to the engine and 6 burners from a 60 gallon onboard fuel tank. Each burner and the engine has its own fuel pump and filter. These independent fuel systems allow easier troubleshooting and redundancy of the heating system. In most cases malfunction of one burner will not adversely effect operation of the machine.

The Chassis of the PT-SRM20 is constructed of heavy duty rectangular tubing. The running gear (2) 6000 lb. axles, electric brakes, and DOT approved lighting for safe and easy transporting. A 3" pintle ring hitch is included. Four landing gear legs (one at each corner) are used to stabilize the unit during operation. The empty weight of the recycler is 12,900.LBS (5,851.Kg)

The Tack/Additive Kettle is located on the rear left side of the recycler. It has a 120 US Gal (454 Liters) capacity and is heated by a Beckett burner. A safety loading shoot allows meltable materials to be safely loaded without splash back. The burner fires into a flue tube submerged at the bottom of the kettle. The material temperature is controlled by a thermostat that can be set from 0 - 550°F (-18 - 288C). The temperature is visible on an LCD display on the control panel.

A hydraulically driven pump pumps the heated material into the mixing chamber at a controlled rate. The pumping rate is adjustable and can be monitored on an LCD digital display at the control panel. The pump has the ability to circulate the heated material within the kettle for quicker heat up times and is designed to purge material from the pump and plumbing lines prior to shut down. A flush tank allows solvent to be pumped through the system for clean out.

SRM 10 120 SPECIFICATIONS

Specifications	PT-SRM10
Dimensions	
Length	234", (5943.60 mm)
Width	99", (2514.60 mm)
Height (Operating)	116" (2946.40 mm)
Weight	7,940. Lbs, (3601.52 kg)
Kettle Pumping System	
Model.	Height 20D®
Relief Valve	Yes
GPM Output Rating	20 gpm
Pump Mounting	Submerged
Pump Drive	Hydraulic, reversible, variable speed with LCD Display
Engine	
Manufacturer	Kubota®
Model	V1305EB
Displacement	81 cubic inch
Number of Cylinders	4
Horse Power	36 HP
Fuel Type	Diesel
Cooling	Liquid
Fuel Tank Capacity	30 Gallons (113.56 l)
Hydraulic System	
System Type	Eaton 7000 Series Load Sensing
Pump Displacement	Variable 0 to 1.9 cu in
Control Type:	Forward/Reverse, flow control electric over manual operated, expandable manifold cartridge valve, hydraulic powered hopper agitator, hopper loading doors, sub. pumping system and loading conveyor
Reservoir Capacity	30 Gallons (113.56 l)
Filtration	10 Microns (0.01 mm)
Chassis	
Number of Axles	2
Axle Capacity	6000 lbs. each (2721.55 kg)
Tire Size	225 x 75 R15
Brake Type	Electric Std (Hyd Optional), all 4 wheels
Landing Gear Static Capacity	5,000 lbs each (2267.96 kg)
Screw jack Quantity	1
Hitch Type	3" Pintle Ring adjustable from 26" to 32"
Frame Material	2" x 6" x 3/16 Rectangular Tubing
Lighting	Approved with Breakaway Kit
Recessed Grometed Lights	Optional
Preheat Hopper	
Capacity	11 cu ft
Opening Dimensions	23" x 38" (874 sq. in.) (563869.84 mm)

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SRM 20 120 SPECIFICATIONS

Specifications	PT-SRM10
Loading Conveyor	
Belt	16" (406.40 mm) wide, cleated
Hydraulic Motor	4.0 Cubic inch Hydraulic Motor W/ Forward-Reverse
Mixing Chamber	
Chamber Type	Continuous Batch Mixing
Mixing Style	Rotating Pugmill
Liner Type	U-shaped, Replaceable
Combustion Chamber Liner Material	Replaceable ¼" Wear Resistant AR Steel
Insulation Type and Thickness	2" Fiberglass & Cerwool, 2" thick (50.80 mm)
Pugmill Drive, Hyd Motor	5.75:1 Gear reduction driven by 18/9 ci 2 speed
Pugmill:	
Pugmill Dimensions	Length 57" (1447.80 mm), Diameter 27" (685.80 mm)
Shaft Size	2.5" square
Paddle Size	Replaceable 4" x 5"
Paddle Material	Reversible, Replaceable, ¼" Wear Resistant AR Steel
Number of Paddles	24
Mixing Chamber Heating System	
Burner Type	Indirect Diesel, Forced Air
Number of Burners	2
Fuel Type	Diesel
Manufacturer	Beckett®
BTU Output	up to 420,000 BTU each - 840,000 BTU Total
Kettle	
Capacity	120 Gallons (454.25 l)
Tank material	14\12 gage
Flue Size	6" (152.40 mm)
Heat Transfer Area of Flues	3300 sq in (22.92 ft)
Insulation Type and Thickness	Fiberglass, 2" thick (50.80 mm)
Cover Opening Dimensions	28" x 20"
Kettle Heating System	
Burner Type	Diesel Forced Air
Number of Burners	1
Fuel Type	Diesel
Manufacturer	Beckett®
BTU Output	up to 420,000 BTU
Thermostat Control Range	0 - 550°F (287.78 ce)

Specifications	PT-SRM20
Dimensions	
Length	252", (6400.80 mm)
Width	100", (2540.00 mm)
Height (Operating)	114" (2895.60 mm)
Weight	12,900. Lbs, (5851.34 kg)
Kettle Pumping System	
Model.	Height 20D®
Relief Valve	Yes
GPM Output Rating	20 gpm
Pump Mounting	Submerged
Pump Drive	Hydraulic, reversible, variable speed with LCD Display
Engine	
Manufacturer	Kubota®
Model	V1305EB
Displacement	81 cubic inch
Number of Cylinders	4
Horse Power	36 HP
Fuel Type	Diesel
Cooling	Liquid
Fuel Tank Capacity	30 Gallons (113.56 l)
Hydraulic System	
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Belt	
Hydraulic Motor	
Mixing Chamber	
Chamber Type	
Mixing Style	
Liner Type	
Combustion Chamber Liner Material	
Insulation Type and Thickness	
Pugmill Drive, Hyd Motor	
Pugmill:	
Pugmill Dimensions	
Shaft Size	
Paddle Size	
Paddle Material	
Number of Paddles	
Mixing Chamber Heating System	
Burner Type	
Number of Burners	
Fuel Type	
Manufacturer	
BTU Output	
Kettle	
Capacity	
Tank material	
Flue Size	
Heat Transfer Area of Flues	
Insulation Type and Thickness	
Cover Opening Dimensions	
Kettle Heating System	
Burner Type	
Number of Burners	
Fuel Type	
Manufacturer	
BTU Output	
Thermostat Control Range	

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