VOYAGER™

HIGHLY PORTABLE ASPHALT PLANT

ASTEC™

ASTEC™

The Voyager offers a compact, highly portable design. The ability to run up to 30% RAP is unique for a plant in this class. In addition, it is backed by the best service support in the industry.

PORTABLE

CONTINUOUS PROCESS

140 MTPH

MODULAR

UP TO 30% RAP*

VOYAGER

PORTABLE ASPHALT PLANTS

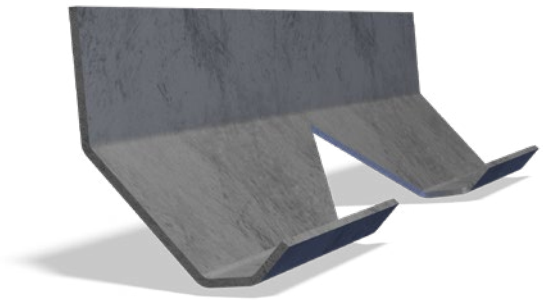
** at 3% moisture*

DRYER/MIXER
DRUM

Achieving a quality asphalt pavement requires mixing materials correctly, with sufficient time for blending. The virgin aggregate, recycled asphalt, additives, baghouse fines, and virgin liquid AC must all be blended thoroughly to ensure everything is coated and the gradation is uniform. The mixing chamber in the UniDrum mixer is an excellent mechanism to ensure adequate blending to achieve a quality mix.

VOYAGER

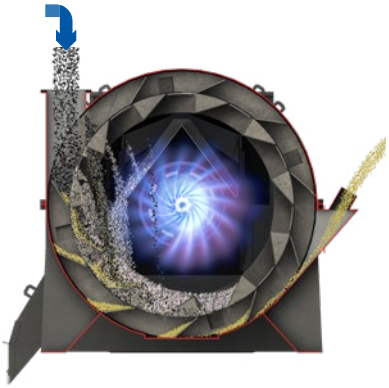
THE UNIDRUM®
DRYER/DRUM MIXER



Astec V-Flight

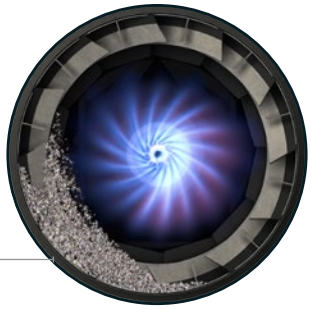
The v-shaped notch allows material to start pouring out of the flights at the beginning of each revolution. The material in the flight continues to pour out until the rotation is complete. This is what provides an even veil of material. The v-flight is also larger than a traditional flight, allowing it to carry the same amount of aggregate even with the notch.

U.S. Patent No. 9,835,374



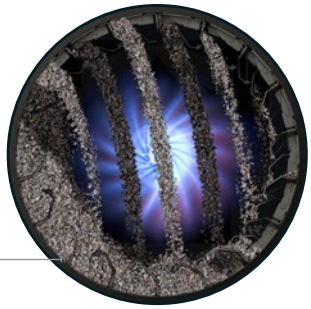
RAP Collar

A collar around the drum allows entry of recycled asphalt (RAP), additives/filler, and baghouse dust into the mixing chamber, where they are blended with the virgin material.



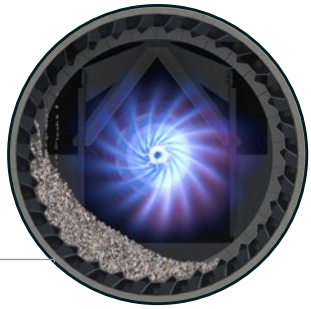
Feeder Flights

Move material into the drying portion of the drum



V-Flights

Provide greater uniformity of aggregate veiling through the gas stream during the drying process, across a wide variety of mix designs and tonnage rates



Combustion Flights

Prevent aggregate from impinging on the flame, while spreading the material to maximize radiant heat transfer

Liquid Asphalt Inlet

Liquid asphalt is injected after virgin aggregate, recycled material, and baghouse dust are mixed. Pre-mixing these materials allows a more even distribution of the liquid asphalt cement.

Mixing Flights

After virgin and recycled materials are combined and brought up to the proper temperature, liquid asphalt is injected. fully configurable mixing flights provide increased agitation for improved mix quality.

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Optional Primary Collector

Coarse fines are separated from fine particulates using an inertial separator. The fine particulates pass through the separator and are collected in the baghouse to be returned to the mix or diverted with optional equipment.

UniDrum® Drum

The 5.5 ft (1.68 meter) counterflow UniDrum drum can produce up to 140 mtph with the addition of 30% recycled material. Astec v-flights come standard and provide greater uniformity of the aggregate veil.

Weigh System

The aggregate weigh system provides accuracy by using a 4-point system that includes an adjustable feed gate, weigh scale, s-type tracking system and gravity take-up.

OPTIONAL RECYCLE BINS

Recycle Inlet
Recycle inlet allows for producing mix with up to 30% recycled asphalt pavement. Optional recycle bins are offered in one or two bin configurations.

Bolt Together Bins
Four bins are standard and more can be easily added to increase capacity with a bolt together bin design.

Sloped Bin Walls
The very steep side walls of the bins promote smooth flow of the aggregate and prevent bridging of materials.

Air Ride Suspension
Air ride suspension provides a smooth ride and allows for fast setup times by raising and lowering the drum into place.

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PORTABLE ASPHALT PLANT

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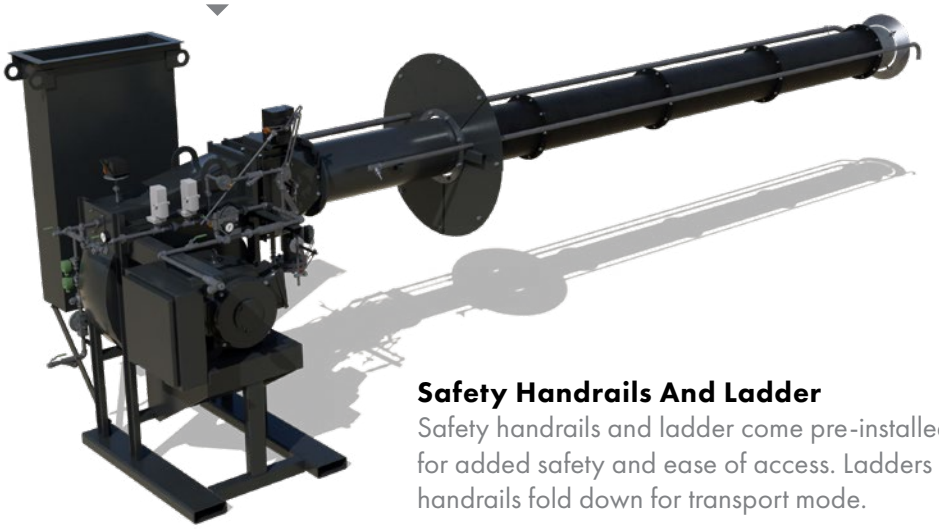
Operator's Cab

Operate your plant in a climate controlled cab while using Astec's fully automated MPIII control system to make your mix. Also available in a stand-alone cab design.

Drag Conveyor

The pivoting drag conveyor and batcher remain attached to the frame during transport. Heavy-duty steel drag components increase reliability. The drag bottom can be unbolted and replaced lowering maintenance costs.

ASTEC FURY BURNER



Fury™ Burner

The Fury burner provides a robust build and simple, accessible construction. Compared to other open-fired designs, the Fury burner achieves better emissions and fuel-efficiency by putting 50% more combustion air through the burner.

Safety Handrails And Ladder

Safety handrails and ladder come pre-installed for added safety and ease of access. Ladders and handrails fold down for transport mode.

Access Door

Generously-sized access doors are provided at critical locations to minimize maintenance and inspection time.

Pulse Jet Baghouse

35,890 m^3/hr (21,125 ACFM) hybrid pulse jet baghouse featuring a streamlined design for ultimate portability and functionality.

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VOYAGER
SPECIFICATIONS

MTPH	140 MTPH
RAP %	30% RAP (base) at 3% moisture
Drum (Diameter: m, ft)	Unidrum, 1.68m (5'6")
Veiling Flights	Astec V-Flights
Mixing Method	Counterflow Drum
Liquid Asphalt Injection	Twin Pump Meter
Mixer Wear Elements	Mixing Flights - Bolt-On
Number of Cold Feed Bins	Up to Four Aggregate Bins
Number of RAP Bins	Up to Two RAP Bins
Scalping Screen	Optional; Requires Separate Load
Filtration Technology	Premium Aramid Bags
Particulate Emission Control	Pulse Jet Baghouse 35,890 m^3/hr (21,125 ACFM), 260 Bags
Primary Collector	Optional In-line Vortex Inertial Separator
Dust Handling	Return All/Divert Some/Divert All
Controls	MPIII
Control House	Air Conditioned Control Cab Attached to Plant Chassis
Burner	35 MBTU/hr Fury™ Burner
Hydraulics	Drag Elevator
Load Out	Truck Scale (not included)
Weigh System	Aggregate/RAP Weighbridge
Feeder Configuration	Volumetric/Gravimetric
Drag Conveyor	Integrated/Folds for Transport
Batcher	Drag-Mounted Batcher
Surge Bin	Optional
Storage Silo	Optional
Drag Chain Construction	10.16 cm (4") Pinch Roller Chain
Drag Liner Material	AR400 (Standard)
Drag Maintenance	Removable Bottom
Suspension Type	Air Suspension
Available Options	Wear Package, RAP System, Enhanced RAP Package

BUILT TO **CONNECT**

ASTEC™

www.astecindustries.com

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