ROADTEC

COLD PLANERS

ASTEC™


ROADTEC
RX-600e

BUILT TO CONNECT

Astec Industries' Roadtec cold planers provide industry-leading asphalt milling for highways, interstates, and more.

The Roadtec brand has been an integral member of the Astec Industries family since 1981. By aligning all Astec brands, we harness the power of a comprehensive dealer network, expansive parts distribution, and robust service.

Based in Chattanooga, Tennessee, Astec was founded in 1972 with the vision to supply creative thinking and state-of-the-art technologies to Rock to Road industries.

Today Astec manufactures more than 100 products in 25 facilities worldwide. Astec products include:

- Rock crushing plants.
- Screening plants.
- Hot mix asphalt facilities.
- Concrete plants.
- Asphalt pavers.
- Recycling solutions.
- Forestry solutions.

Astec is committed to placing the customer first. We focus on customer-driven innovation in everything we do. This approach informs how we design, build, and service our products.\

As part of Astec Industries we are Built to Connect today, tomorrow, and in the future. This means that our products, services, and solutions connect communities. We design and develop innovative and sustainable industry-leading cold planers through collaboration, modernization, and teamwork. We are Built to Connect.

RX-SERIES COLD PLANERS

The RX series of asphalt cold planers provides high production and reliability through precise weight balance and easily accessible components. Astec's cold planers, also knowns as asphalt mills, are available in half-lane and full-lane models, to fit your specific applications.

Milling an asphalt surface prior to resurfacing makes paving easier and assures the best possible smoothness, especially if your cold planer is equipped with automated grade and slope controls, as the RX series is.

With Astec's cold planers you have full control over the cut depth, width, and mill pattern.

- You can remove the full depth of the asphalt surface, or just a portion depending on the road rehabilitation needed.
- You can select the width of the cut, to suit your specific task.
- You can choose the drum width and tooth pattern.

Additionally, the reclaimed material can be a source of income. It can be recycled in your own asphalt plant or sold to an asphalt producer. If you use Cold-in-Place recycling you can recycle the asphalt millings on the spot, saving time, money and waste.

RX-600 | 86 -inch Milling Width Cold Planer

RX-700 | 120-inch Milling Width Cold Planer

RX-900 | 150-inch Milling Width Cold Planer

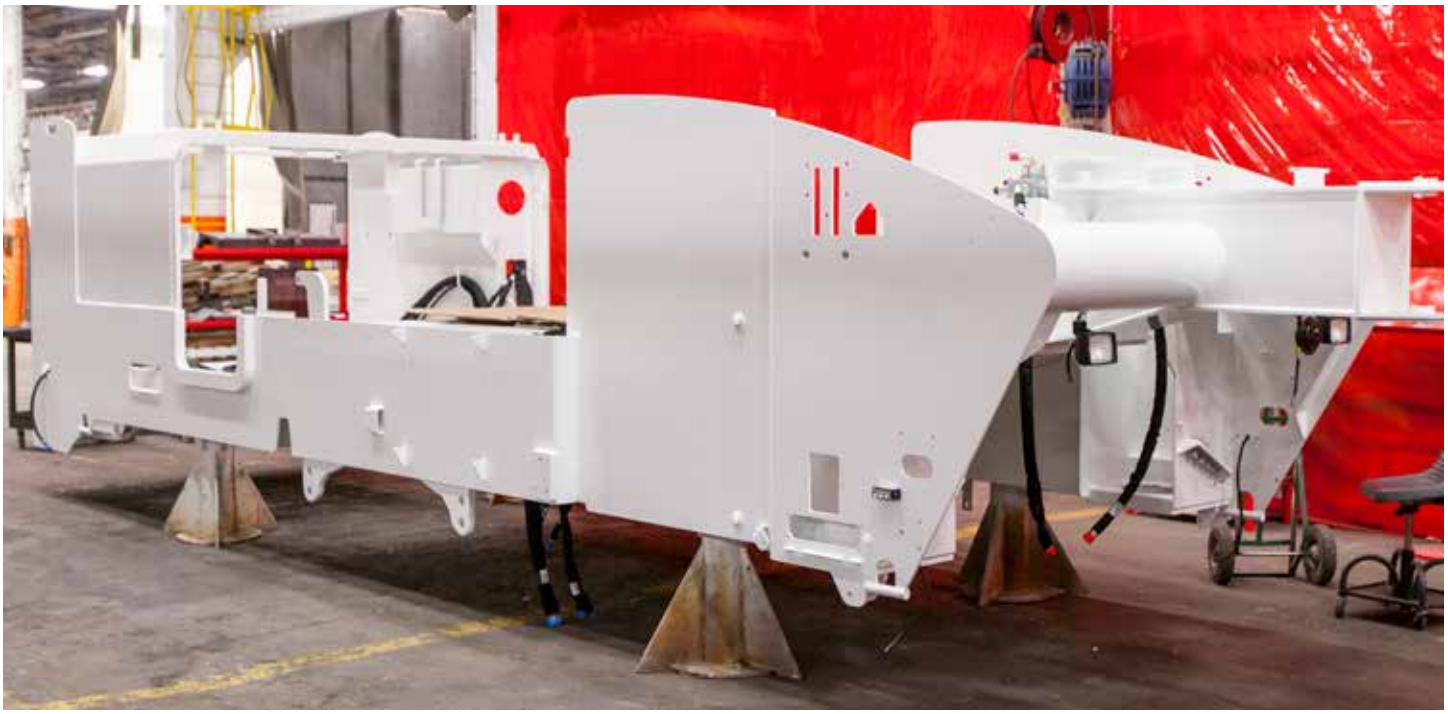
POWERFUL AND BALANCED

Power, Maneuverability, and Balanced Weight

To perform all the functions of the milling operation, a cold planer requires a delicate balance of weight and power. The weight of RX machines is balanced over the cutter housing, to ensure excellent traction while maintaining the desired depth of cut. With proper balance, the machine's power remains consistent while following trucks through tight turns or in adjacent lanes.

Choose Either Three or Four Tracks

With Astec cold planers you can select either three or four tracks. Cold planers with three-track suspensions are more maneuverable in the cut and lower in weight. Four-track machines provide greater tractive effort and flotation.

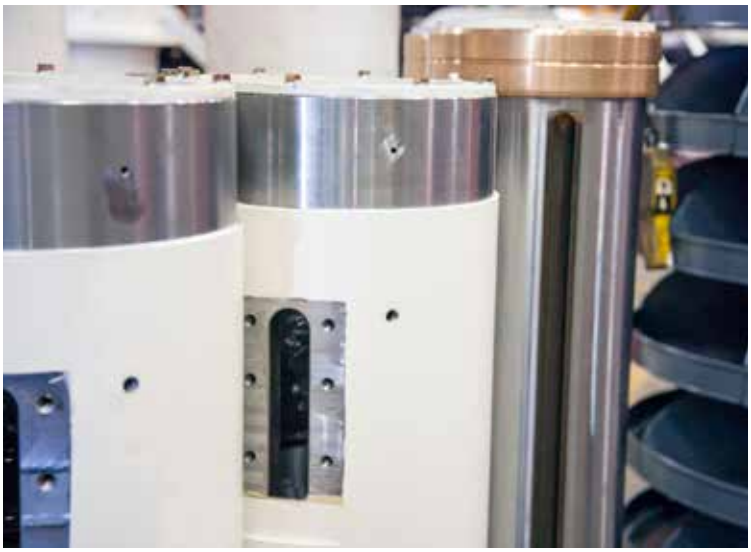


Solid Construction and Strong Frame

Astec builds the machine frame from extremely strong A656 grade 80 steel. This steel has twice the yield strength as the mild steel used in other machines on the market. Astec frames are very strong and rigid without adding unnecessary weight.

Fuel Economy & Engine Performance

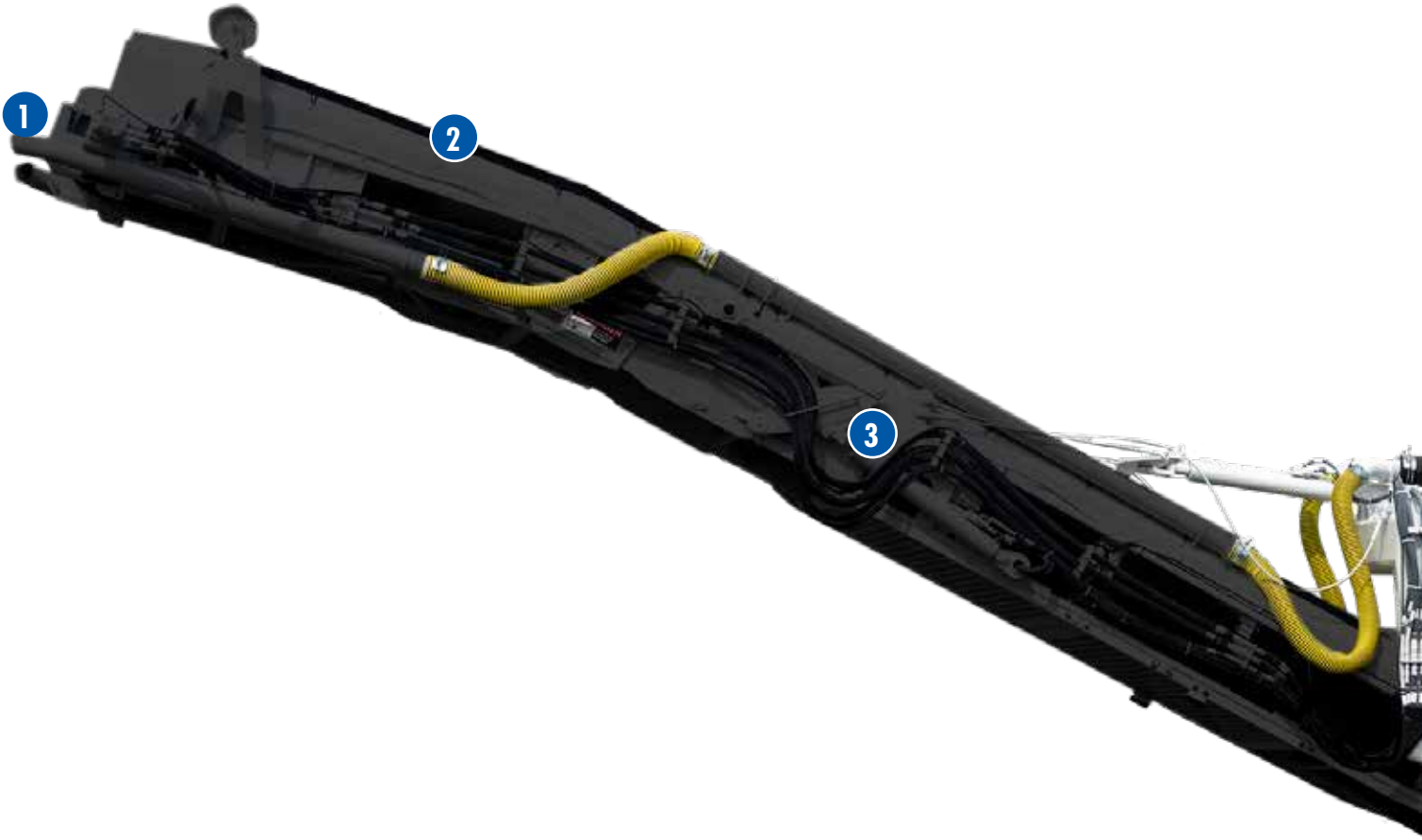
Having the proper balance of weight and horsepower combined with the latest in engine technology ensures that every unit of fuel being burned is not wasted.



Keyway Steering

Steering a cold planer is controlled from the tops of the front legs using steering keys that are easily replaceable. This innovative design requires no linkage under the primary conveyor between the front legs, which adds to the overall accessibility of the machine. Four steering modes enhance the machine's agility, allowing it to produce through tight turns. Steering modes include crab, coordinated, rear only, and front only.

KEY FEATURES



1 Dust Extraction System
The dust extraction system pulls dust from the primary conveyor and ejects the material along the secondary conveyor into the dump truck.

2 Secondary Conveyor Swing
The 60 degree conveyor swing allows you to easily feed a truck in an adjacent lane or around a tight bend, such as in a cul-de-sac.

3 Folding Conveyor
A folding secondary conveyor is available on all Astec cold planer models to simplify transport and loading.

4 Bolt-On Track Pads Standard
When your track pads are ready to be replaced you can simply unbolt the old ones and bolt on new ones, saving you time and money.

5 ACE™ Grade and Slope Automation

ACE automates the elevation of the machine through a combination of grade and slope sensors. The ACE option includes three user friendly control panels located at the operator station and on either side of the machine.

6 Dual Water Spray Bars

Astec cold planers have two independent spray bars to inject water in the cutter housing. The front spray bar is primarily for dust suppression, the rear spray bar cools the drum.

7 Three Track or Four Track

Astec is the only brand that offers three or four track options to match your jobsite needs.

8 Rear Object Detection

Rear object detection provides an increased level of safety. The system stops the cold planer if a person or object is behind the machine while it is in reverse.

OPERATOR COMFORT

Large Platform with Intuitive Controls

1 Dust Extraction System

A standard dust extraction system improves operator comfort and safety. The dust extraction system removes dust and debris from the milling operation through a hydraulic fan at the primary conveyor. The dust is ejected at the end of the secondary conveyor into the dump truck. As the dust is ejected, the material exiting the secondary conveyor belt helps to channel the fine material into the dump truck.

2 Reduced Sound

Rubber vibration isolators eliminate destructive vibration throughout the cold planer. Eliminating vibration makes the machine quieter. Mounts underneath the operator's platform provide a more comfortable ride. The engine is cooled by a variable speed fan that further reduces noise by operating at a level continuously optimized according to engine load.

Intuitive Controls

Simplified controls allow for easy operation from either side of the platform. With multifunctional joysticks and accessible controls, operating the cold planer is clear and intuitive. The controls are designed to be operated with one hand to allow for truck signaling.

Safe & Functional Platform

The operator platform is conveniently accessed from the right or the left side. Two control stations allow machine operation from either side.

PERFORMANCE

Conveyor Efficiency

Milled asphalt material is easily handled by the 32 in (813 mm) wide secondary conveyor with 1 in (25 mm) tall molded cleats. Each conveyor also features self cleaning pulleys which release wet material from the conveyors to ensure maximum efficiency. Canvas conveyor covers also come standard.

Conveyor Swing

Mobility is critical. The secondary conveyor on the Astec cold planers swings 60 degrees to the left and right. This feature makes it possible to mill tight turns and send material to trucks in an adjacent lane. Conveyors also feature infinitely variable speeds.

Dual Spray Bars

Two independent stainless steel spray bars positioned at the front and rear of the cutter housing provide increased tool life and dust control. Each spray bar can be controlled independently, or both can be adjusted from a master control. The spray system can be easily connected to an air system for quick purging and winterizing.

The water system is automated to only spray water during cut entry and forward propel while milling. With this added functionality, the operator is not required to prompt the system to cease water spray at the end of a pass or when shifting into travel mode.

1 Solid Cutter Housing & Wear Areas

Cutter housing is made of T-1 steel (350 BHN). Replaceable, 1/2 inch (12.7 mm) chromium-clad (600 BHN) wear plates cover all potential wear areas.

2 Adjustable Engates

Adjustable endgates have replaceable shoes at the high-wearing front and rear corners.

3 Material Brace

A material brace on the front moldboard applies even pressure to the front edge of the cut for excellent material sizing.

4 Scraper Blades

Bolt-on tungsten carbide scraper blades at the rear moldboard add to the housing's toughness.

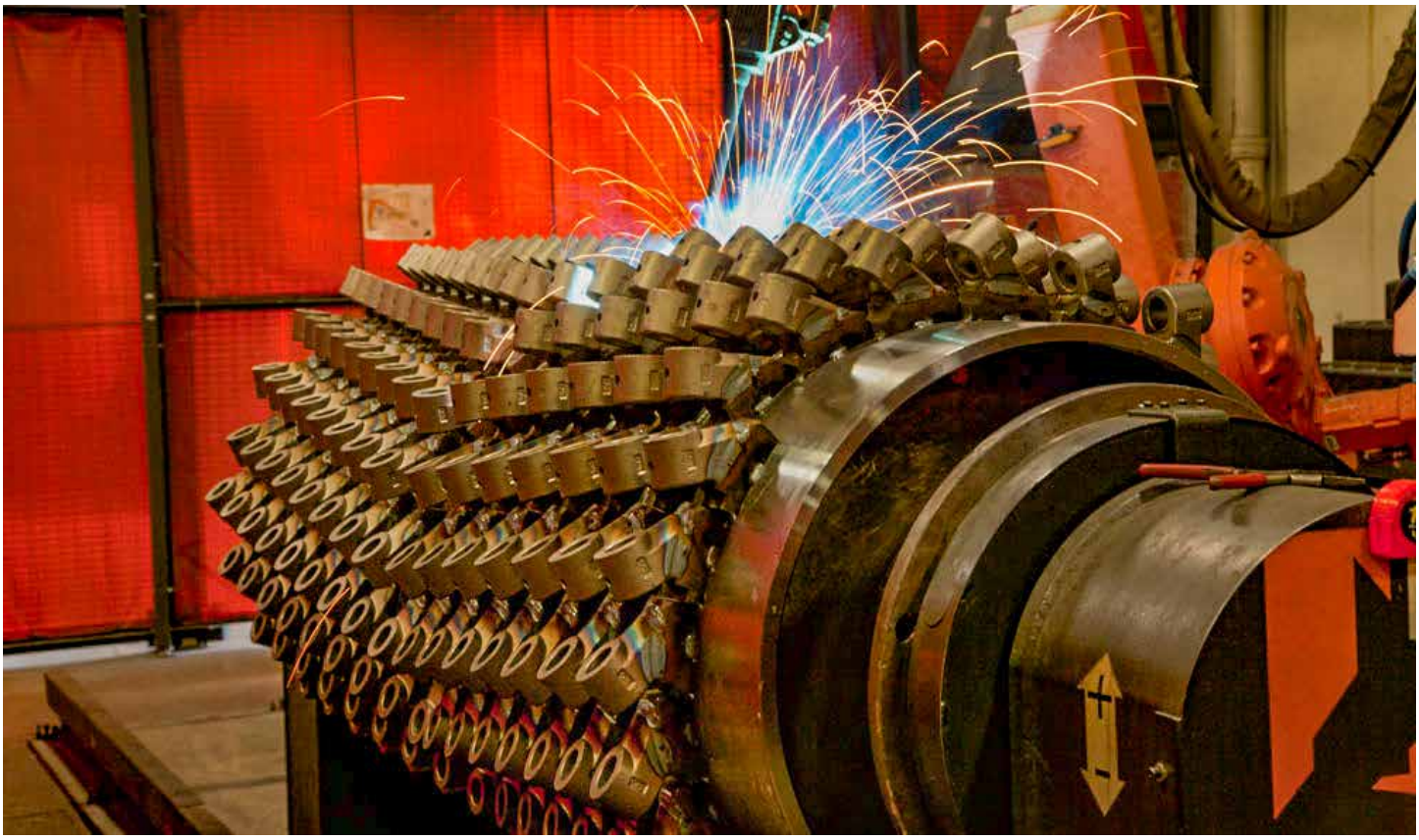
5 Angled Rear Moldboard

The angled rear moldboard can be set in a fixed position or in float mode. Float allows the moldboard to adjust up and down with the elevation of the cut, and the height of the rear moldboard is fully adjustable. When the moldboard is fully raised the engine is shut down for safety. Both the rear and front moldboards are angled in toward the drum by 10 degrees. This allows less material to accumulate around the drum, which increases component life, production rates, and efficiency as well as leaving less material to clean up at the end of a pass.

6 Modular Cutter Housing

The cutter housing and drum are completely modular allowing them to be easily interchanged with other housings and drums of different widths.

HEAVY DUTY DRUMS



Cutter Drums

Specialty cutter drum designs are available from wide spaced excavating patterns to fine spaced micro milling patterns, as well as double hit drums to improve production without sacrificing quality of cut. Multiple tooling options are available including Astec QX1, Sollami® and Kennametal®. A wealth of experience and engineering expertise is readily available to design drums best suited for your application and that will offer you the lowest operating costs and maximize your profitability. All of the cutter drums are designed and manufactured by Astec utilizing three-dimensional solid modeling and highly accurate robotic welding.

Engineering Expertise

There is no substitute for outstanding design. Astec engineers put an enormous amount of time and effort into designing machines that perform at the highest level in every possible application. Various lacing patterns are available on each cutter drum allowing the machine to obtain the desired surface texture. Innovative options such as the Variable Cutter System VCS® are available to allow machines to cut at different widths with minimal effort.

Cutter Drum Gearbox

Heavy-duty, high-torque gearboxes transfer power from the drive belts to the cutter drum. Shear couplings are also used as a protective measure. If the drum strikes a buried obstruction, the shear coupling will separate the input shaft from the gear box to protect the engine. The coupling is easily and quickly replaceable.

Cutter Access

Changing cutter teeth is much easier with the rear moldboard fully raised to expose cutter teeth. The rear moldboard slides vertically for a much cleaner tooth changing process. A safety disengage will shut off the machine when the moldboard is fully raised. A power pack raises or lowers the moldboard when the machine is off.

Drum Styles

- Standard $^{5}/_{8}$ inch (16 mm) Single Hit Triple Wrap: The most versatile drum available. Excellent performance at varying depths.
- Double Hit Quad Wrap: Drum designed for typical cut depths for overlays. These drums can increase tooth life and improve forward speed of machine without sacrificing surface texture and increase tooth life.
- Single Hit Profiling: For 4 inch or less of removal at a normal speed of 40 to 50 FPM.
- Single Hit Micro Mill: Fine milling, for 2 inch or less of removal at slow speeds (20 to 25 FPM to leave straight lines).
- Double Hit Micro Mill: Fine milling, for 2 inch or less of removal at higher speeds (40 to 50 FPM to leave straight lines).

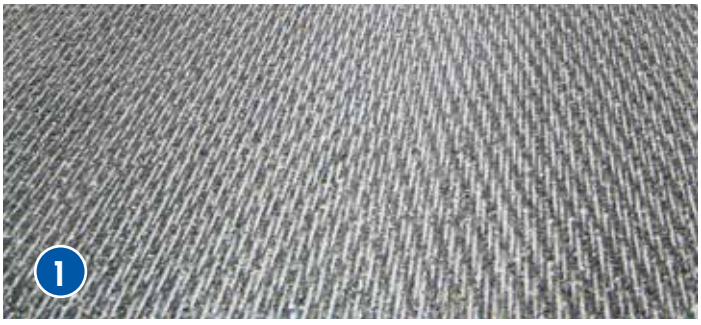
*All speeds can vary and are dependent on material, tooling, and other factors.

Roadrunner™ Drums

Quad wrap, double hit drums allow the machine to travel at higher speeds while maintaining a consistently smooth surface pattern and increasing the tooth life. This allows you to maximize production and create an ideal surface for overlays.

Exclusive VCS® System

The Variable Cutter System allows the cold planers to cut at widths of 24 inches (610 mm), 36 inches (914 mm), 48 inches (1,219 mm), and 60 inches (1,524 mm) without changing the cutter housing. A hydraulically adjustable segmented rear moldboard is included with the VCS system allowing the machine to easily adapt to the different cutting widths.



Drum Options

Roadtec offers a number of drum options to allow smooth machine operation in different applications. With a variety of widths and tooth patterns available, you can select the drum best suited for your projects. Various tooth patterns will yield their best surface at different speeds.

1 Standard $^{5}/_{8}$ inch (16 mm) Single Hit
Triple Wrap - 100 FPM

2 Roadrunner™ Double Hit
Quad Wrap - 100 FPM

AUTOMATED ELEVATION

Ace™ Grade and Slope Control System

The ACE Grade and Slope Control

The ACE Grade and Slope Control system is designed to automate the elevation of your machine in the most precise and user friendly way possible. New graphic displays allow the crew to easily select, calibrate, and control sensors with minimal time and effort. The sensors used to measure depth and slope are continuously monitored and displayed on three separate control panels keeping the entire crew on the same page at all times.

Automatic Calibration

The ACE system provides the ability to automatically calibrate specific hydraulic parameters ensuring the machine consistently achieves the precise depth. The automatic calibration feature is easily accessible through the ACE control panels.

Additional Sensors

The ACE system can easily incorporate additional sonic sensors. Sonic averaging skis can be installed on both sides of the machine to average depth variations and minimize drastic deviations in the machine's elevation. The sensors used on these averaging skis will appear on the ACE control screens when they are plugged in for use on the machine.

Control Panels

The color control panels are clearly labeled for simple, straightforward operation. Selecting wire rope, sonic, and slope sensors is easily done from any of the three screens. Setting the values and transitioning among the different sensors is done from the same screen view on the control panel. This simple setup eliminates the need to access different menus or use excessive button combinations to make changes while the machine is operating.

FEATURES AND ACCESS

Centralized Lubrication

The grease fittings are arranged in zones that are clearly labeled with recommended amounts to make preventative maintenance as convenient as possible.

Bolt-On Track Pads

Bolt-on style track pads facilitate quick and easy installation of new track pads.

Light Package

All models come with lights to illuminate key areas of the machine, as well as two halogen magnetic work lights. Additional work lights are available.

Easy Clean-Up

The high pressure washdown system keeps your machine looking and running like new. The system includes washdown bars at conveyors and plenty of hose length to reach all points of the machine.

Easy Engine Access

Astec cold planers offer the best engine access in the industry. A large hood opens hydraulically for complete access to the engine. Additional access doors are found at each service point.

Rear Object Detection

Astec mills offer a rear object detection system that provides an increased level of safety for your milling crew. This feature is designed to aid in stopping the mill if a person or object is behind the machine while it is in reverse. This system includes additional sensors and ground level buttons allowing members of the crew to disable reverse. Sensors and ground level buttons allow members of the crew to disable reverse.

Air Compressor Included

Astec cold planers come with a standard compressed air system. Service and maintenance tasks are accomplish quickly with air tools powered by two storage tanks and a compressor.

Conveyor Access and Belt Tensioning

Each end of the belt on each conveyor can be independently tensioned. Keeping the belt tensioned properly ensures that the belt is tracking correctly, which improves belt life and creates a safer working environment.

Electrical System

Astec RX cold planers have a standard 24 volt electrical system with 105 amp alternator. CAN-based electronics with on-board and remote diagnostics allow simple troubleshooting throughout the machine.

FEATURES AND OPTIONS

Cutter Drum Width Options

	RX-505	RX-600	RX-700	RX-900
VCS*		●		
79 in(2 m)	●	●	●	
86 in (2.2 m)	●	●	●	●
98 in (2.5 m)			●	●
150 in(3.8 m)				●
CH903V**				●

*Includes 24 in, 36 in, and 48 in cut widths

**Segmented cutter housing allowing cut widths of 10 ft 6 in, 11ft 6 in, 12 ft 6 in, and 13 ft 6 in

Variable Cutter System: VCS® allows the change of cut widths by only changing the drum.

Cutter Drum Tooth Spacings

	5/8 in (15 mm)	Roadrunner Double-Hit	3/8 in (9.5 mm)	8 mm	6 mm*	0.2 in (5 mm)
79" (2 m)	●			●		
86" (2.2 m)	●	●	●		●	●
98" (2.5 m)	●	●	●	●	●	●
150" (3.8 m)	●	●	●	●	●	●

* QX1 Tooling Only

The Astec QX1 quick change cutter tooling system is designed for better access to the wear parts located on the cutter drums of Astec cold planers. The QX1 system is designed to provide increased access for bit and insert replacement.

The base block and sleeve design provide the ability to remove bits and tooth holders using rear punch tools, or wedge tools and bit forks. Notches in the seating face of the QX1 sleeves allow the use of a small wedge tool for removal. Notches in the nose of the sleeve allow the use of a fork tool for cutter bit removal. A shortened shank at the sleeve also makes tool removal with a rear punch tool.

Cold-In-Place Recycling (CIR) Package

Both the RX-700 and RX-900 cold planers can be equipped with bolt-on packages that allow them to be used for Cold-In-Place Recycling (CIR).

- Additive Control Computer – The computer and controls on the CIR package are located in one easy to operate panel. You can control and meter up to three additives which could include asphalt (either in emulsion or foam), water, and a slurry if needed.
- Water Application Rate Control System – Water control system includes water pump, flow meter, proportional valve, and spray bar to dispense water directly into the cutter housing.
- Solvent/Release Agent Tank – An onboard release agent tank with drain allows you to easily flush the additive system at the end of a shift so all transfer lines and spray nozzles are conditioned for another work day.
- Bidirectional Controls – Removable and repositionable control box mounted on the back of the operator platform provides the ability to easily operate the machine in reverse.

MODELS

Protect your investment and keep operating costs low by monitoring your machines in real time through a wireless signal with the Guardian® Telematics System. Guardian is the industry's only live 2-way telematics system. Guardian includes software, on-machine viewing screens, and wireless signal boosters to send and receive data in real time from anywhere at anytime.

Guardian provides the data you need to make changes in real time to mitigate risks and increase profits. Guardian's intuitive Live Schematics™ lets owners and technicians view electrical circuits in a simple, efficient layout with real time status of switches, valves, and settings.

GUARDIAN
Roadtec Telematics System

RX-600 Cold Planer

Details	Spec
Engine (Tier 4)	Cummins® QSX15 675 hp (503 kW) @ 1,850 rpm
Engine (Tier 3)	Cummins® QSX15 630 hp (462 kW) @ 1,850 rpm
Weight (Three-Track)*	60,560 lbs (27,469 kg)
Weight (Four-Track)*	63,480 lbs (28,794 kg)

*1/4 tank fuel; no water, 86 in cutter housing & drum

RX -600 Cutter System

Maximum Cut Depth	13 in (330 mm)
Maximum Cut Width	86 in (2,184 mm)
Standard Tooth Spacing	5/8 in (16 mm)
Standard Tip Diameter	44 in (1,118 mm)

Options (RX-600, RX-700, RX-900)

Miscellaneous
Hydraulically folding secondary conveyor
Operator station canopy
Automated lubrication system
Tow hitch
Cameras
Guardian™ Totalizer
Three-track or four-track assemblies
Additional Lighting
Night Light Package – Four 24v high intensity discharge lights enhance visibility for work performed at night.
SaberLight™ - (2) 92W, LED light panels

RX-700 Cold Planer

Details	Spec
Engine (Tier 4)	Caterpillar® C18 800 hp (597 kW) @ 1,800 rpm
Engine (Tier 3)	Caterpillar® C18 700 hp (522 kW) @ 1,900 rpm
Weight (Three-Track)*	77,380 lbs (35,099 kg)
Weight (Four-Track)*	82,400 lbs (37,376 kg)

*1/4 tank fuel; no water, 86 in cutter housing & drum

RX-900 Cold Planer

Details	Spec
Engine (Tier 4)	Caterpillar® C27 1050 hp (783 kW) @ 1,800 rpm
Engine (Tier 3)	Caterpillar® C27 950 hp (700 kW) @ 1,800 rpm
Weight (Three-Track)*	94,000 lbs (42,637 kg)
Weight (Four-Track)*	98,000 lbs (44,452 kg)

*1/4 tank fuel; no water, 86 in cutter housing & drum

RX-700 Cutter System

Maximum Cut Depth	14 in (356 mm)
Maximum Cut Width	126 in (3,200 mm)
Standard Tooth Spacing	5/8 in (16 mm)
Standard Tip Diameter	44 in (1,118 mm)

RX-900 Cutter System

Maximum Cut Depth	14 in (356 mm)
Maximum Cut Width	150 in (3,810 mm)
Standard Tooth Spacing	5/8 in (16 mm)
Standard Tip Diameter	44 in (1,118 mm)

Auxiliary Power
4 kW continuous duty hydraulic generator
15 kW continuous duty hydraulic generator
Grade and Slope Control
ACE™ digital grade and slope control system for operator and ground man
Sonic averaging ski package with one or two skis
Rear leg control system. Sonar grade control for rear elevation.
Cutter Systems
Profiling or micro-milling drums (multiple widths and spacing available)

Cold-in-Place Recycling
Dual control package for bidirectional operation
Cutter housing bidirectional package
Cold-in-Place additive system

www.astecindustries.com

All specifications subject to change without notice. Products shown are representative, details may vary. Equipment show with options available at additional cost.