



# CP100

COMMERCIAL CLASS PAVER



## CP100 II

Engine	100hp (74kW) Cummins Tier IVf
Std. Width	8'-15' (2.43-4.59m)
Max Width	17' (5.18m)
Weight	22,000 lbs (9979kg)

# OVERVIEW

**Meet the new standard in commercial paver platforms.** The all new CP100 II, the next generation of the commercial-class' leading heavy-duty platform, has arrived. Featuring a powerful and reliable Cummins Tier IV Final engine, highway-class wear components and its class-leading screed platform in the EZCSS, the CP100 II delivers a new level of performance and mat quality to contractors.

From small to large-scale commercial paving projects, the CP100 II meets and exceeds the demands of contractors. The platform's versatility and dimensions enable the paver to be utilized in size restrictive areas, such as parking garages, while having the performance and contractor-focus for large-scale parking lot or municipal road applications. The CP100 II is able to do so with its all-new EZCSS 8'-15' screed, the heaviest-duty material distribution system in the commercial class, and a fully rebuildable platform with replaceable auger flights, bolt-on replaceable floor plates and one piece steel frame for longer machine lifecycle. Along with its intuitive controls and availability in 2-man and 3-man configurations, the CP100 II provides contractors a commercial platform unmatched in quality, performance and longevity.

## Highway-Class Build And Performance In A Commercial-Class Paver Platform





# CP100

2-Man Option Shown



**Unmatched Performance** with its powerful, high torque Cummins® QSF3.8 Tier IV Final engine, one piece heavy-duty frame, highway-class wear components and a fully rebuildable, long lasting platform.

**Unequaled Contractor Focus** with its dual control stations with intuitive switch placement, multiple platform configurations and the most standard crew comfort features in its class.

**Unparalleled Mat Quality** with the class-leading EZCSS electrically heated screed, featuring over 30 years of award winning mat quality and performance of Carlson's highway-class front-mount platforms in a commercial class package.

# FEATURES & BENEFITS

Manufactured to outlast and outperform, the CP100 II is built from the ground up to meet the demands of the contractor. Combining the heaviest duty components with leading performance, it is no wonder why the CP100 name has become synonymous with reliability, quality and ease of maintenance.



3-Man Option Shown

## 1 Heavy-Duty Steel Frame

For the CP100 II, it all starts with the frame. Constructed of cold-rolled steel, the CP100 II's single piece frame provides contractors with a longer lasting, higher quality chassis, making it the most robust platform in its class. And since all the pavers wear components and add-ons are bolted to the frame, the CP100 II is able to be fully rebuilt around the heavy-duty frame for even longer service life.

## 2 Power And Performance

Proven reliability, high torque and impressive power are delivered from the 100 horsepower (74kW) Cummins® QSF3.8 Tier IV Final turbocharged engine, coupled with closed loop hydraulics. Producing increased torque figures compared to its predecessor, the CP100 II is able to effortlessly push highway-class asphalt trailers and conquer any day's job.

Maintenance on and around the engine is made accessible with Carlson's leading engine compartment layout. With a one piece, forward tilting hood, largest side doors in its class, and front access panel in the hopper, service to the CP100 II's engine, hydraulics and electrical can be done quickly and comfortably for greater productivity and less machine downtime.

## 3 Track System

Comprising of 7 bogeys, return idler, the largest planetary drives in its class and 14" (356mm) wide poly-pad tracks that provide exceptional lifecycle and performance, the CP100 II's track system gives contractors a robust, heavy-duty system that excels across a wide variety of bases and materials. Hydraulically self-tensioning, the paver's track system also comes standard with rock guards, giving the already robust platform added protection.

## 4 Dual Control Stations

The CP100 II comes standard with dual control stations enabling full control of paver and screed functions from either side. Each console features intuitively organized switch functions, electric over hydraulic steering levers, 7" touch screen display and wired remotes. The 2-man configuration features screed mounted controls that keep them relative to the operator at all times. In the 3-man configurations, the CP100 II's control consoles are able to pivot outwards 45° for enhanced visibility and are able to lower for operation in height restrictive areas.



*The layout of the engine, hydraulics and electrical, along with its forward-tilting hood and large side doors, make service and maintenance easy and accessible.*

*The intuitively organized controls provides simple operation of the platform from both sides, while leading visibility to the augers and screed allow for close monitoring of material flow and head of material.*



# MATERIAL DISTRIBUTION

Among commercial-class paver platforms, there is no rival to the CP100 II's heavy-duty, highway-class material distribution system. Combining robust reliability with industry leading features, the CP100 II's material distribution system elevates paving performance, reduces replacement costs and simplifies end of day clean-up times.



**Highway-Class Components  
For Leading Performance**

## Hopper And Conveyors

To Carlson, heavy-duty isn't just a buzzword. We mean it. Featuring chains and slats 25% stronger than competitive pavers, the largest conveyor sprockets in their class, and easily accessible conveyor tension adjustment points, the CP100 II's 9.5 ton hopper efficiently moves material while giving operators longer wear component lifecycle. Even the CP100 II's hopper wings are the most robust in their class, constructed of ½" steel and requiring no external support like competitive machines, while the heavy-duty lift cylinders provide superior lift angles for even greater material flow.

Clean up of the hopper and conveyors is drastically reduced by the system's design and accessibility. From the between the tracks conveyor design that eliminates the need for daily under hopper cleanout or a hydraulically lifting floor, to the flip up front apron for washdown of the conveyor chains and sprockets, the CP100 II gives contractors a longer lasting platform combined with unrivaled ease of clean up.



## Heavy-Duty Floor Plates

Like all Carlson commercial-class pavers, the CP100 II utilizes 3/8" (9.5mm) heavy-duty, 450 Brinell-rated hardened steel floor plates for longer lifecycle and better performance. These class-leading floor plates are also fully replaceable, enabling contractors to rebuild their machine for even longer machine lifecycle and greater return on investment.

## Auger Flights And Bearings

The CP100 II's fully replaceable 13" (330mm) 500 Brinell-rated steel auger flights provide best-in-class material flow towards the endgates while also ensuring leading component lifecycle. Held in place by the heaviest duty, fully sealed bearing in its class, the CP100 II's augers are truly highway-class for higher production and lower maintenance costs.

## Horizontal Sliding Damper Doors

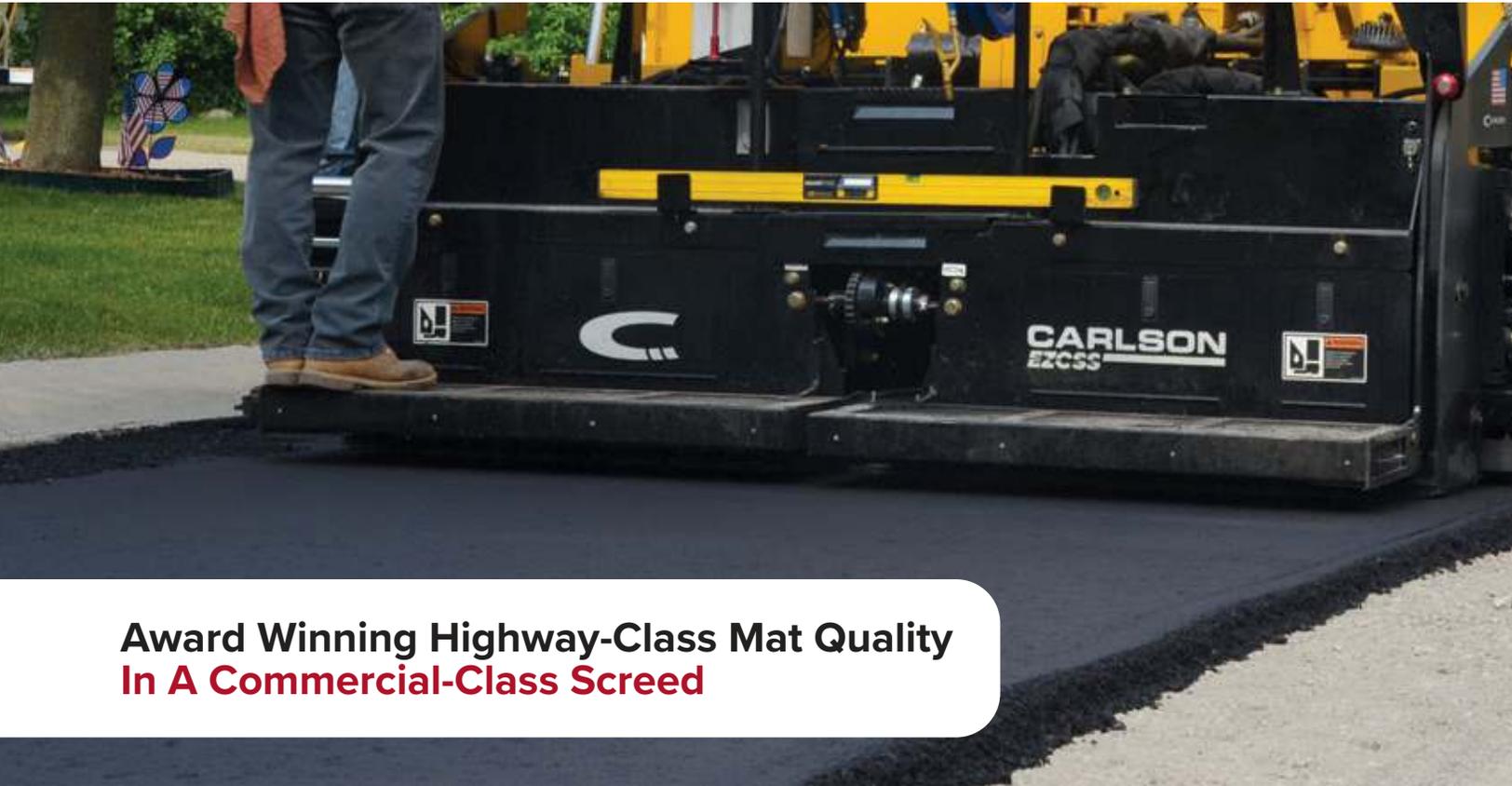
A Carlson exclusive feature, the horizontal sliding damper doors on the CP100 II keep obstructions, such as utility boxes, from damaging them while open. Able to be infinitely adjusted from fully open to closed, contractors are able to utilize the doors' tunnel effect for wider width paving or for narrow width applications, such as utility cuts. The horizontally sliding doors also prevent material from falling when traveling across the jobsite to the next pull.

## Automation And Sonics

For more even head of material at any width, the CP100 II is available with sonic augers and hydraulic tow points. The CP100 II is also prewired as standard to accept grade and slope automation systems, including those sold by MOBA®, Topcon® and TF Technologies®.



Only one commercial paver line carries the industry's leading screed platforms: Carlson's CP series of pavers. And with the all-new EZCSS single slide screed, commercial contractors have a true Carlson highway-class platform in a commercial-class package for unmatched mat quality and unparalleled paving performance.



## Award Winning Highway-Class Mat Quality In A Commercial-Class Screed

### Highway-Class Features

Just like its highway-class screeds, renowned for their award-winning mat quality, the EZCSS shares many similarities to Carlson's larger platforms. Standard with state-of-the-art electric heating elements for clean, even heat across the main and extension plates, the EZCSS also incorporates with each element a full length hold down for better heat transfer to the plate. Add in the spring loaded endgates, innovative screed deck cone system for easy leveling, standard manual extension heat, slope and crown adjustments, and the EZCSS has the most standard screed features in its class for superior ride uniformity and mat quality.

### Screed Plates

Built with the Carlson class exclusive 2% taper, a feature that improves outboard flow of material regardless if the augers are on, the EZCSS screed utilizes a 16" (406mm) deep main screed plate and 8" (203mm) deep extension plates. Each plate is made of 3/8" (9.5mm) 450 Brinell-rated hardened steel, giving contractors leading plate lifecycle and unparalleled mat quality. The EZCSS also has class leading adjustable pre-strike offs tightly fitted to the main, a feature that allows little to no damage to occur when obstructions are bumped or hit due to poor elevation.



## Options For Customization

Contractors are able to add enhanced versatility and customizability to their EZCSS screed through an array of class-leading attachments and functions. Able to be added anytime, contractors can tailor their screed to the demands and requirements of any job including:

- The Carlson Safety Edge endgate produces seamless, extruded 30° mat edges for safer roadway re-entry and eliminates the need for hand tamping. Standard with heat, the Carlson Safety Edge is able to be adjusted from 30° to joint matching with its integrated, externally mounted jack.
- The 12" and 18" Integral Berm option enables contractors to construct a seamless 4" outside edge rise berm curb through quick manual adjustments.
- Power functions can be easily added to the EZCSS to provide greater versatility and enhanced paving performance. These functions include Power Crown for 3" (76mm) crown to 1" (25mm) invert, Power Slope for up to 9% extension slope capability, Power Extension Height for quick adjustment on the fly, and Extension Vibration.

# EZCSS

## Extensions

Like its industry-leading highway-class screeds, the EZCSS commercial screed features Carlson's exclusive single slide extension support system that drastically reduces component replacement costs and achieves exceptional extension rigidity. The 1.5" diameter chrome rods provide fluid inboard and outboard motion while the heavy duty tubular frame the rods are fixed to bears the weight and forces on the extensions.

Along with the only adjustable slide block bushings in its class, on-the-fly angle of attack adjustment, and half the wear components of competitive platforms, the EZCSS's extension support system represents a watershed moment for commercial class mat quality and reliability.



# OPTIONS & SPECS



**Customized To Fit  
Contractor Needs**

With its ability to be customized to the needs of the contractor, the CP100 II is available with a wide array of options and attachments. Ranging from paving performance to operator comfort, all of the CP100 II's options are able to be easily bolted on allowing contractors to add versatility and ability when needed. Simply put, no other paver in its class can match the customizability of the CP100 II.



## PERFORMANCE

- 8 LED Flood Light Package
- High Output Light Package
- Hydraulic Tow Points
- Truck Hitch
- 12" Bolt-on Auger Extensions
- Tunnel Kit
- Auger/Conveyor Reverse
- Depth Crank Indicator Kit



## CONTRACTOR FOCUS

- Umbrella
- Beacon Light
- LH & RH Seat (3-man Only)
- Slide Out Walkway Extensions
- 2nd Washdown Hose Reel
- Citrus Washdown Tank
- 12v Aux. Charger Kit
- Auxiliary Light Mount
- Spanish Decal Kit
- Choice of Depth Crank Thread

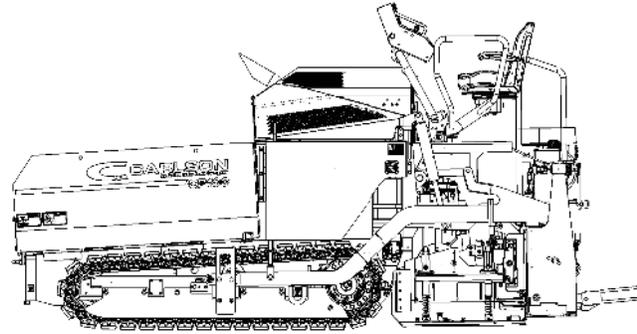


## MAT QUALITY

- Heated Endgate Kit
- Cut Off Shoes
- 12" Heated Bolt-on Extensions
- Carlson Safety Edge
- Integral Berm (12" or 18")
- Power Crown (Optional)
- Power Extension Height (Optional)
- Power Slope (Optional)
- Extension Vibration (Optional)

3-Man Option Shown

94.5 in (2400mm)



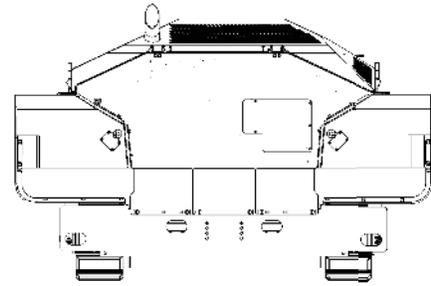
77 in (1956mm)

96 in (2438mm)

167 in (4242mm)

2-Man Option Shown

80 in (2032mm)



86 in (2184mm)

102 in (2591mm)

121 in (3073mm)

### DIMENSIONS

Total Weight	22,000 lb (9979kg)
Tractor Weight	18,000 lb (8165kg)
Screed Weight	4,000 lb (1814kg)
Hopper Capacity	9.5 Tons (8.6 tonnes)
Hopper Inside Width Opening	10 ft (3048mm)
Hopper Dump Clearance	21.25 in (540mm)
Load Angles	15° Forward/15° Reverse

### ENGINE

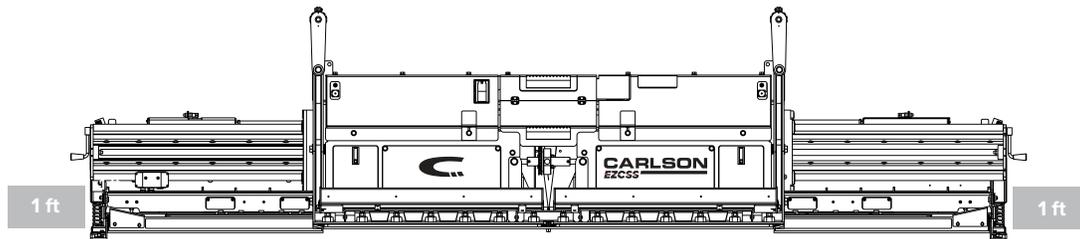
Engine	100hp (74kW) Cummins QSF 3.8
EPA/EU Emissions Standard	Tier IV Final/EU Stage IV
Drive System	2 Speed Planetary
Track Type (Standard)	14" (356mm) Poly-Pad
Max. Pave Speed	155 fpm (47.2m/min)
Max. Travel Speed	255 fpm (78m/min)
Max. Reverse Speed	255 fpm (78m/min)

### COMPONENTS

Floor Plate Thickness	3/8 in (9.5mm) 500 Brinell-rated
Conveyor Width	25.5 in (648mm)
Conveyor Speed	42 rpm
Damper Doors	Dual Horizontally Sliding
Auger Diameter	13 in (330mm)
Auger Flight Thickness	7/8 in (22mm) 500 Brinell-rated
Max. Auger Speed	135 rpm

### CAPACITIES

Fuel Tank	32 gal (121L)
DEF Tank	5 gal (19L)
Hydraulic Tank	22 gal (83.3L)
Cooling System Capacity	7 gal (26.5L)
Washdown Tank	6 gal (22.7L)
Electrical System	12v w/ 80 amp Alternator
Generator	14.4kW Belt Driven



1 ft

8 ft (2.43m)

15 ft (4.59m)

17 ft (5.18m)

1 ft

### EZCSS SCREED

Standard Paving Width	8 ft-15 ft (2.43-4.59m)
Max. Paving Width	17 ft (5.18m)
Paving Depth (Min/Max)	.25-8 in (6mm-203mm)
Main Plate Depth	16 in (406mm) Center 14 in (356mm) Edge
Main Plate Thickness	3/8 in (9.5mm) 450 Brinell Rated
Extension Plate Depth	8 in (203mm)
Extension Plate Thickness	3/8 in (9.5mm) 450 Brinell Rated

Screed Heat Source	Electric Heating Elements
Endgates	Spring Loaded
Crown Adjustment	Manual Adjustment (Power Option)
Crown/Invert	3 in (76mm) / 1 in (25mm)
Extension Height Adjustment	Manual Adjustment (Power Option)
Extension Height Travel	1.75 in (44.45mm)
Power Slope Adjustment	9% Down
Vibration	0-3000 vpm

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# CP100



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