


Exhibit A Pricing Page

CRFQ DOT2000000028

Roadtec RP170e or Equal Extendable Width Wheeled Asphalt Paver

Item No.	Description:	Make/Model & Year	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Extended width Wheeled Asphalt Paver	2020 VOLVO P5170B W/ CARLSON SCREED	10	\$354,933.00	\$3,549,330.00
Total Bid Amount 					\$3,549,330.00

Vendor Information

Company Name: RUDD EQUIPMENT CO.

Contract Manager: RON JACOBS

Address: PO BOX 610, NITRO, WV 25143

Phone: 304-755-7788

Fax: 304-755-7990

Email: RJACOBS@RUDDEQUIPMENT.COM

Signature:

RECEIVED

2019 OCT 17 PM 12:27

WV PURCHASING
DIVISION

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DOT2000000028

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input checked="" type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input checked="" type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

RUDD EQUIPMENT COMPANY

Company


Authorized Signature

10/17/19

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Russ Equipment Co.

Authorized Signature: [Signature] Date: 10/17/19

State of West Virginia

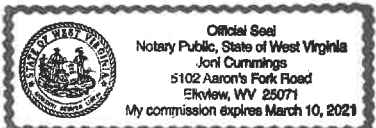
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 17 day of October, 2019.

My Commission expires March 10, 2021.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]
Purchasing Affidavit (Revised 01/19/2018)





Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 – Equipment

Proc Folder: 615049

Doc Description: ASPHALT PAVER (7020EC02)

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2019-08-22	2019-10-08 13:30:00	CRFQ 0803 DOT2000000028	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

RUDD EQUIPMENT CO.
 PO BOX 610
 NITRO, WV 25143

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
 (304) 558-2402
 crystal.g.hustead@wv.gov

Signature X

FEIN # 61-0445955

DATE 10/16/19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH AN OPEN-END CONTRACT FOR ROADTEC RP170E OR EQUAL ASPHALT PAVER 8-FOOT TO 15-FOOT EXTENDIBLE WIDTH PER THE ATTACHED DOCUMENTS.

QUESTIONS REGARDING THE SOLICITATION MUST BE SUBMITTED IN WRITING TO CRYSTAL.G.HUSTEAD@WV.GOV PRIOR TO THE QUESTION PERIOD DEADLINE CONTAINED IN THE INSTRUCTIONS TO VENDORS SUBMITTING BIDS.

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Asphalt Paver	10.00000	EA	354,933	\$3,549,330.00

Comm Code	Manufacturer	Specification	Model #
22101607	VOLVO	ASPHALT PAVER	P5170B w/ CARLSON SCREED

Extended Description :

Extendable width wheeled asphalt paver, Roadtec RP170e or equal

SCHEDULE OF EVENTS

Line	Event	Event Date
1	MANDATORY PRE-BID MEETING	2019-09-12
2	VENDOR QUESTION DEADLINE	2019-09-23

DOT2000000028	Document Phase Final	Document Description ASPHALT PAVER (7020EC02)	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 - Equipment

Proc Folder: 615049

Doc Description: ADDENDUM # 1

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2019-10-03	2019-10-11 13:30:00	CRFQ 0803 DOT2000000028	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

RUDD EQUIPMENT CO.
 PO BOX 610
 NITRO, WV 25143

FOR INFORMATION CONTACT THE BUYER

Crystal G Husted
 (304) 558-2402
 crystal.g.husted@wv.gov

Signature X

FEIN #

61-0445955

DATE 10/16/19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum # 1 is issued for following reasons:

1. To Extend the Bid Opening Date and Time to Friday October 11, 2019 at 1:30pm.
2. To provide answer to vendors questions.
3. Attachment of the Pre-Bid sign-in sheets.

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Asphalt Paver	10.00000	EA	\$354,933	\$3,549,330

Comm Code	Manufacturer	Specification	Model #
22101607	VOLVO	ASPHALT PAVER	P5170B w/ CARLSON SCREED

Extended Description :

Extendable width wheeled asphalt paver, Roadtec RP170e or equal

SCHEDULE OF EVENTS

Line	Event	Event Date
1	MANDATORY PRE-BID MEETING	2019-09-12
2	VENDOR QUESTION DEADLINE	2019-09-23

DOT2000000028	Document Phase Final	Document Description ADDENDUM # 1 ASPHALT PAVER (7020EC02)	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 - Equipment

Proc Folder: 615049

Doc Description: ADDENDUM # 2 ASPHALT PAVER (7020EC02)

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2019-10-08	2019-10-11 13:30:00	CRFQ 0803 DOT2000000028	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US


VENDOR

Vendor Name, Address and Telephone Number:

RUDD EQUIPMENT COMPANY
 PO BOX 610
 NITRO, WV 25143

FOR INFORMATION CONTACT THE BUYER

Crystal G Husted
 (304) 558-2402
 crystal.g.husted@wv.gov

Signature X  FEIN # 61-0445955 DATE 10/16/19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum # 2 is issued for following reasons:

1. To clarify specifications

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Asphalt Paver	10.00000	EA	\$354,933	\$3,549,330.00

Comm Code	Manufacturer	Specification	Model #
22101607	VOLVO	ASPHALT PAVER	P5170B w/ CARLSON SCREED

Extended Description :

Extendable width wheeled asphalt paver, Roadtec RP170e or equal

SCHEDULE OF EVENTS

Line	Event	Event Date
1	MANDATORY PRE-BID MEETING	2019-09-12
2	VENDOR QUESTION DEADLINE	2019-09-23

DOT2000000028	Document Phase Final	Document Description ADDENDUM # 2 ASPHALT PAVER (7020EC02)	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 – Equipment

Proc Folder: 615049

Doc Description: ADDENDUM #3 ASPHALT PAVER (7020EC02)

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2019-10-10	2019-10-17 13:30:00	CRFQ 0803 DOT2000000028	4

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

RUDD EQUIPMENT COMPANY
 PO BOX 610
 NITRO, WV 25143

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
 (304) 558-2402
 crystal.g.hustead@wv.gov

Signature X

FEIN #

61-0445955

DATE

10/16/19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum #3 is issued for following reasons:

1. To extend bid opening date
2. To modify specifications

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Asphalt Paver	10.00000	EA	\$354,933	\$3,549,330

Comm Code	Manufacturer	Specification	Model #
22101607	VOLVO	ASPHALT PAVER	P5170B w/ CARLSON SCREED

Extended Description :

Extendable width wheeled asphalt paver, Roadtec RP170e or equal

SCHEDULE OF EVENTS

Line	Event	Event Date
1	MANDATORY PRE-BID MEETING	2019-09-12
2	VENDOR QUESTION DEADLINE	2019-09-23

DOT2000000028	Document Phase Final	Document Description ADDENDUM #3 ASPHALT PAVER (7020EC02)	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 13 - Equipment

Proc Folder: 615049

Doc Description: ADDENDUM #4 ASPHALT PAVER (7020EC02)

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2019-10-16	2019-10-17 13:30:00	CRFQ 0803 DOT2000000028	5

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

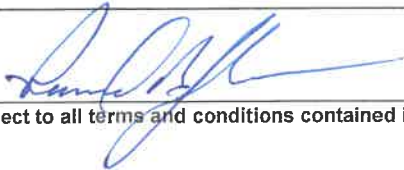
VENDOR

Vendor Name, Address and Telephone Number:

RUDD EQUIPMENT COMPANY
 PO BOX 610
 NITRO, WV 25143

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead
 (304) 558-2402
 crystal.g.hustead@wv.gov

Signature X 

FEIN # 61-0445955

DATE 10/16/19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum #4 is issued for following reasons:

1. To clarify specification 3.2.6.2

No other changes

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Asphalt Paver	10.00000	EA	\$354,933	\$3,549,330

Comm Code	Manufacturer	Specification	Model #
22101607	VOLVO	ASPHALT PAVER	P5170B w/ CARLSON SCREED

Extended Description :

Extendable width wheeled asphalt paver, Roadtec RP170e or equal

SCHEDULE OF EVENTS

Line	Event	Event Date
1	MANDATORY PRE-BID MEETING	2019-09-12
2	VENDOR QUESTION DEADLINE	2019-09-23

DOT2000000028	Document Phase Final	Document Description ADDENDUM #4 ASPHALT PAVER (7020EC02)	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

EZIV

HIGHWAY CLASS SCREED



EZIV

Standard Width	8'-15' (2.43m-4.59m)
Maximum Width	22' (6.7m)
Standard Width	10'-19.5' (3.05m-5.79m)
Maximum Width	26' (7.92m)

OVERVIEW

The Benchmark To Which All Others Are Measured. The Carlson EZIV is the industry's leading asphalt screed for award winning mat quality and wide width ability. Helping contractors to earn multiple Sheldon G. Hayes Awards and other accolades, the EZIV provides contractors a reliable, heavy duty screed platform for commercial, municipal and highway-class applications. Along with its single slide extension support system combined with heavy-duty, adjustable wear components, it is no wonder why the Carlson EZIV is the industry's best selling front mount screed.

Available in 8-foot and 10-foot models, the EZIV can be mounted to all current North American models offered by the major paver manufacturers. The screed platform can also be retrofitted on to nearly any previous North American highway-class paver, combining the leading performance of the EZIV with your fleet's dependable workhorse.

The Industry's Leading Screed For Award Winning Mat Quality





EZIV



Unmatched Performance with its leading thin lift paving ability, heavy-duty single slide extension support system, optional integrated berm builder and recognized wide width paving.

Unequaled Contractor Focus with its deep foldable walkways, long lasting wear components, and leading crew comfort features including storage, cup holders, shovel holders and much more.

Unparalleled Mat Quality with its 2% tapered screed plate for enhanced material flow, state-of-the-art heating elements for fast, even heat, intuitive adjustment points for simple leveling and innovative V3 endgate platform.

FEATURES & BENEFITS

Combining legendary performance, unmatched innovation, and unwavering commitment to the needs of owners and operators, Carlson's EZIV continues to deliver award winning performance to contractors regardless of the tractor decal.



1 Screed Plates

The EZIV features Carlson's exclusive 2% screed taper, facilitating great outboard flow of material towards the endgates whether the augers are in operation or not. Its 1/2" (13mm) Hardox 450 main and extension plates are combined with state-of-the-art heating elements for efficient, clean and even heat through use of full length element hold downs. And with its all-new pivot point location, the EZIV achieves increased screeding surface, enhancing the smoothness and ride quality of the mat while maximizing screed plate lifecycle.

2 Single Slide Extensions

Utilizing a unique single slide extension support system, the EZIV drastically reduces component replacement costs while achieving exceptional rigidity of its extensions. The 2" (51mm) diameter chrome rods provide fluid inboard and outboard motion while the heavy-duty 6" (152mm) tubular frame that the rods are firmly fixed to bears the weight and forces on the extensions. Combined with the industry's largest adjustable slide block bushing for front-mount screeds, the EZIV's extension support system truly sets itself apart from the field in performance, component lifecycle and mat quality.

3 Adjustment Points

The hallmark of Carlson's front mount screeds are the intuitive adjustment points that maintain their hold for exceptional mat quality. The EZIV features a heavy duty, machined power crown assembly with pull pins for adjustment of lead crown on the fly. Combined with an exceptionally strong slope plate bolt pattern and slope stop that allows greater periods between adjustments, along with tightly fitted adjustable strike-offs, the EZIV delivers award winning mat quality while maintaining its adjustments over longer periods of time.

4 Crew Comfort

Creating a safer, more productive environment for crews, the EZIV continues to set the standard for contractor focus. Featuring rubber isolated 20" (508mm) deep foldable walkways, the EZIV provides a comfortable and safe operating platform. And with its conveniently located cup holders, 110v outlets for accessories, depth rods and holders, shovel holders, clip board holder and legendary Carlson oven*, no other screed can match the attention to the needs and wants of contractors like the EZIV.

*Oven available on most North American tractor models.



Utilizing the largest adjustable slide track bushing in its class, the EZIV extension maintains integrity of the slide track function for reduced lifecycle costs and superior performance.



WIDE WIDTH ABILITY & SPECS



Industry Recognized Wide Width Ability

With its uncompromising extension rigidity, innovative bolt-on designs and easy installation, the EZIV is able to tackle wide widths up to 22' (6.7m) (EZIV08) or to 25' (7.62m) (EZIV10). Bolt-on extensions include 12" (305mm), 18" (457mm) and 24" (610mm) wide bolt-on's, all standard with state-of-the-art heating elements and Y-cables. Enabling operators to easily set up for wide width applications with its hydraulically adjustable match height and accessibility of additional power, the EZIV simplifies wide width paving while delivering unmatched mat quality.



STANDARD SHOE

Through use of a simple bolt system, the Carlson V3 Endgate enables easy change of endgate runners to suit the jobsite application. Standard on all Carlson screeds 2013 or newer, the V3 enhances crew safety, reduces downtime and increases productivity. The endgate comes with the Standard Shoe, and can be enhanced with an optional heat kit.



SAFETY EDGE

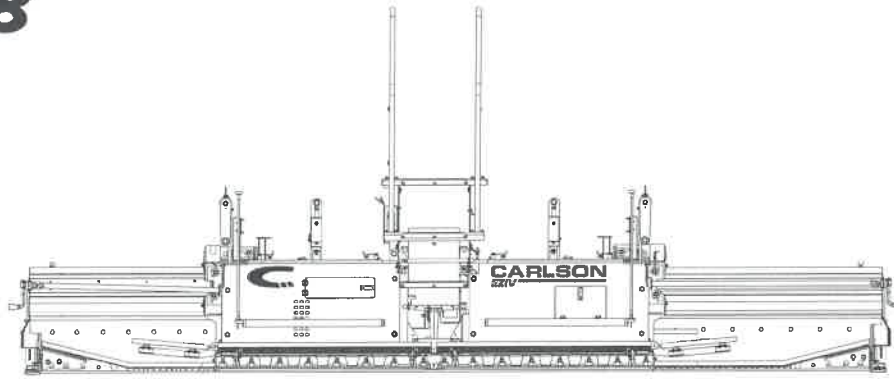
The industry leader in versatility, performance and ease of use, the patented Carlson Safety Edge is the contractor's choice for creating accurate, 30° extruded edges for safer, longer lasting roadways. Easily adjustable when approaching curbs and driveways, the attachment is the only endgate mounted Safety Edge builder approved by the FHWA.



SIDELOAD ATTACHMENT

Through use of state-of-the-art heating elements and simple, external adjustment points, the Sideload Attachment gives operators up to four times edge compaction compared to a traditional endgate. The attachment can be paired with the 4" (102mm) High Density Bolt-on for enhancing longitudinal joint density figures.

EZIV08



8 ft (2.43m)

15 ft (4.59m)

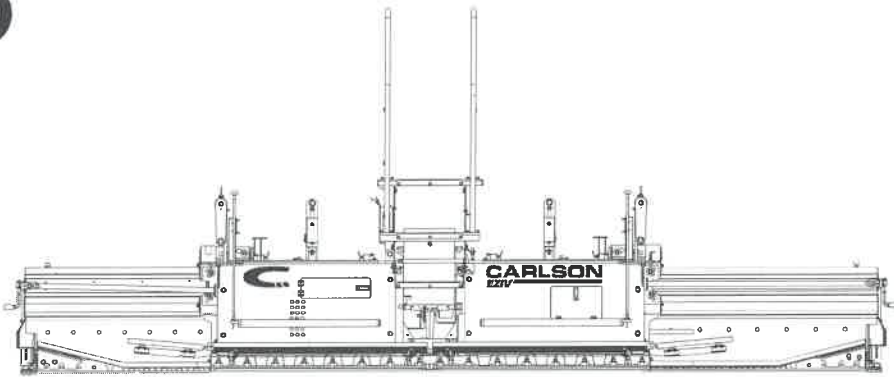
EZIV08 SPECS

Standard Pave Width	8 ft-15 ft (2.43m-4.59m)
Wide Pave Width	22 ft (6.7m)
Vibration	0-3000vpm
Power Crown	2.5 in Crown/1.5 Invert (63.5m/33mm)
Extension Slope	9%
Vertical Extension Height	Hydraulic

ADDITIONAL SPECS

Screed Weight	6,250 lbs (2835kg)
Main Screed Plate Taper	2% from center to outside edge
Power Outlets	4 Outlets
Power Output	120 v @ 1200 watts while heating
Walkway Depth	20.5 in (521mm)
Optional Integrated Berm	12 in (305mm), 18 in (457mm)

EZIV10



10 ft (3.05m)

19 ft (5.79m)

EZIV10 SPECS

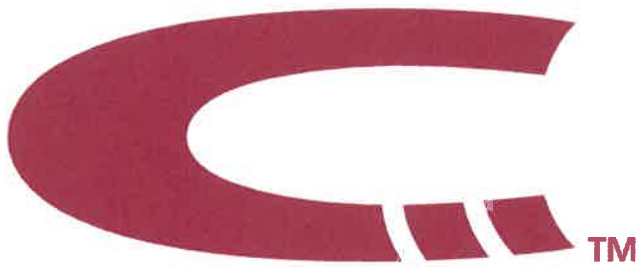
Standard Pave Width	10 ft-19 ft (3.05m-5.79m)
Wide Pave Width	26 ft (7.92m)
Vibration	0-3000vpm
Power Crown	2.5 in Crown/1.5 Invert (63.5m/33mm)
Extension Slope	9%
Vertical Extension Height	Hydraulic

ADDITIONAL SPECS

Screed Weight	7,000 lbs (3175kg)
Main Screed Plate Taper	2% from center to outside edge
Power Outlets	4 Outlets
Power Output	120 v @ 1200 watts while heating
Walkway Depth	20.5 in (521mm)
Optional Integrated Berm	12 in (305mm), 18 in (457mm)

01-217

EZIV



CARLSONPAVINGPRODUCTS.COM

Continually improving our products, Carlson reserves the right to amend materials and specifications without notice. Featured machines and photos may include optional or prototype equipment. 2017 Carlson.

CARLSON PAVING PRODUCTS, INC. an Astec Industries Company

18425 50th AVENUE EAST • TACOMA, WA 98446 USA • PH 800.216.2108 • carlsonpavingproducts.com



Volvo Construction Equipment
Building Tomorrow



P5110B, P5170B

Volvo Tracked And Wheeled Pavers 2.4-5.5 m / 8-18 ft 129 kW / 173 hp



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for customers around the globe. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.

A strong, dedicated, capable dealer network

Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.

The strength of our dealer network is enhanced with extensive individualized product support training at our best-in-class Customer Center in Shippensburg and through hands-on training. Using a great Product Demonstration Center featuring a dedicated area for most common applications, visitors operate equipment from our entire product line under a variety of simulated working conditions. This facility is in year-round use by our dealers and customers.

Building the best starts right here.

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq. ft. expansion – now covers 570,000 sq. ft. on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.





Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

Dependability

Designed and manufactured at Volvo's factory in Pennsylvania and incorporating all the experience of its Blaw-Knox heritage, the P5110B and P5170B pavers have proven their reliability on American jobsites over multiple paving seasons. Teamed up with the UltiMat160 screed, these easy-to-maintain machines deliver high quality mat performance and low total cost of ownership on a wide variety of demanding applications.

Ground level access

With simple serviceability, the P5110B and P5170B take the hassle out of daily checks and routine service. Large opening doors and panels offer ground level access to checkpoints, engine and hydraulic filters as well as main components. The fuel and DEF fills are also performed from ground level.



Volvo Engine

The Volvo D6 Tier 4 Final engine is found in many other Volvo models, with its proven reliability delivering high power at low engine speed. Engine speed is automatically adjusted to the paver application, lowering noise levels and fuel consumption, while delivering consistently high paving performance.



Access machine data from anywhere

With Volvo's optional CareTrack® telematics system, remotely access an array of important paver data including geolocation, and proactively manage service and maintenance to maximize uptime. Stay connected to your machines via remote machine monitoring, meaning you're better equipped to run your machines safely and efficiently, and able to predict potential issues before they arise.



ActiveCare Direct

Using CareTrack® — the Volvo telematics system — thousands of machine data points are captured and sent to the Volvo Uptime Center in Shippensburg, Pennsylvania, where a team of data analysts and a proprietary system monitors and analyzes machine health in real time. With this option, you'll receive a monthly fleet utilization report to help identify opportunities to improve worksite efficiency.





PROVEN AND TESTED DESIGN

The P5110B and P5170B pavers have proven their reliability through a series of rigorous and intense tests on multiple job sites around North America. Customer feedback, innovation and half a century of paver manufacturing experience is built into every Volvo paver.



VERSATILE SCREED LAYS IT DOWN EASY

The UltiMat160 screed features extensions that can be adjusted hydraulically, anywhere from 8 ft up to 16 ft. Rapid adjustability of paving width makes it easy to work around obstacles. Its front mounted extensions enable effortless head-of-material control in the auger channel, resulting in excellent mat quality on every job.

Agility

High production and quality finished mats are all in a day's work for the P5110B and P5170B pavers. Rapid adjustability of paving width makes it easy to work around obstacles, and its solid construction ensures that it can tackle heavy commercial and light highway jobs in its stride.

Maneuverability

A compact machine with a tight turning radius, the P5110B and P5170B can be precisely positioned and follow tight curves easily.



Ease of movement

A fast travel speed and modest size means that driving the P5110B and P5170B pavers between jobs, or transporting by truck from site to site, is fast and economical.



Tailored by you

A wide range of options is available, from powered extending tunnels and flow gates, to radiator debris screens, LED work lights and bolt-on screed extensions. Every paver can be specified to meet the task at hand.



Tech ready

The paver is prewired to plug-and-play, so upgrading to an automatic grade and slope system is easy, either using Volvo's Blaw-Kontrol system or other industry solution.



Straightforward

Marrying the best of proven technology with the latest in design, the P5110B and P5170B pavers are the ideal partners for both veteran operators and the next generation of road crews. Laying a high-quality mat couldn't be easier, with simple controls and behind-the-scenes technology allowing operators to concentrate on the material flow and the road ahead, while sensors and systems take care of business below.

Material flow system

Sonic sensors automatically regulate the speed of augers and conveyors, matching the paver's speed and providing a consistent head-of-material – helping to deliver the highest quality smooth finished mat with minimal operator input.



Primed and ready

Getting ready for paving couldn't be easier. A priming function raises the engine speed, runs the conveyors and augers and provides material to the screed – all ready to start paving. An automatic screed heating system also ensures a consistent screed temperature is maintained.



Screed lock

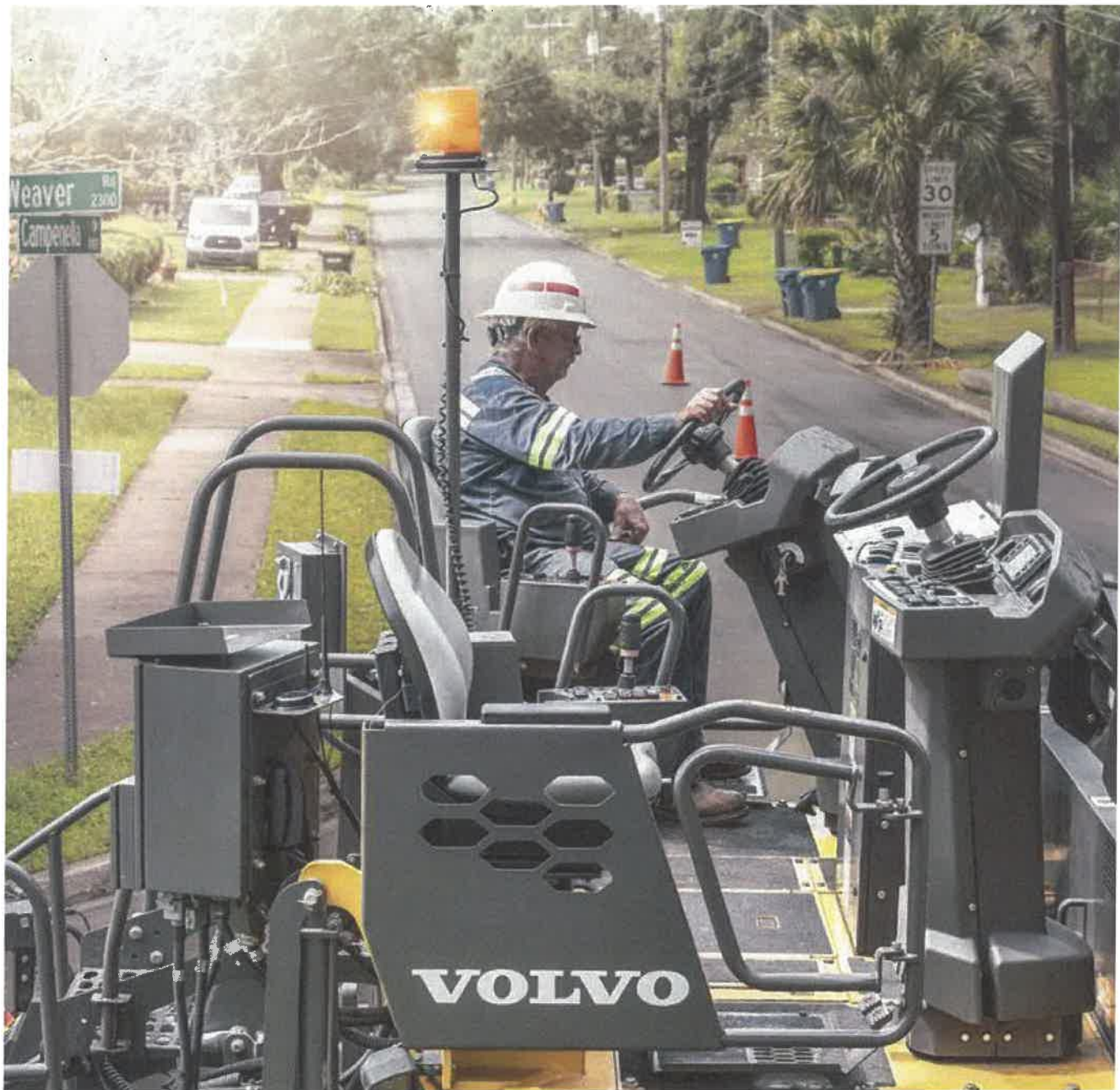
A screed lock function holds the screed rigidly in place until new material is delivered, meaning that paving begins again exactly where it left off – avoiding marks or bumps in the mat when there are pauses in material flow.



Back to school

Maximize paver performance and learn to recognize and correct paving problems, with crew training from the experts at the industry-acclaimed Road Institute.





A PARTNER THAT'S EASY TO GET ALONG WITH

Combining proven technology and excellent all-round visibility, the P5110B and P5170B pavers are the ideal partner for veteran operators and the next generation of road crews. Paving controls are intuitively grouped by function and backlit for easy identification in all light conditions.



A DEMANDING JOB NEEDN'T BE UNCOMFORTABLE

Operator seats and consoles are adjustable for comfort and to optimize the view of the entire work area. A flat deck and anti-slip surfaces help keep things safe when moving around on the paver.

Just relax

Equipped with seats that can be extended beyond the edge of the paver and an unobstructed work-area view from hopper, to auger tunnel, to end gates – the operator has an excellent view of material flow for ultimate paving quality.

Operator station

The low operator platform enables easy crew communication across the deck, with two consoles allowing the paver to be operated from either left or right side of the machine. Paving controls are conveniently grouped, and color coded by function, and the seat and console are fully adjustable for comfort and an excellent view of the entire work area. Safety is paramount, with a flat anti-slip deck, a wide stairwell and conveniently placed handrails.



Fume extraction system

Volvo's SmokEater fumes extraction system effectively collects and disposes of smoke and fumes from the auger area.



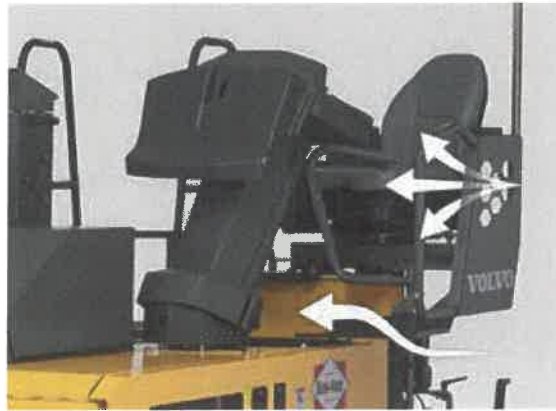
No need to call security

Doors and panels are lockable and interior components protected, while also providing convenient storage for tools and belongings.



Cool under pressure

Effective engine compartment airflow directs heat away from the operator, while a footrest provides additional comfort and the optional umbrella protects operators from the glare of the sun.



P5110B tracked paver

PROVEN AND TESTED DESIGN

Built by experts – with expert customer input – delivering proven reliability on American jobsites.

Operator friendly

Simple controls and behind-the-scenes technology allows operators to concentrate on the material flow and the road ahead.

Operator station

Operator seats and consoles are adjustable for comfort and to optimize the view of the work area. Paving controls are grouped by function and backlit for easy identification in all light conditions.

Built to last

Durable rolled hopper wings help prevent material build-up and reduce clean up, while the large hopper is generously sized for continuous paving.

Automatic track tensioner

The automatic track tensioning system ensures optimal track tension for performance and long life.

Road institute

The Volvo Road Institute has been teaching paving crews and technicians how to operate and service asphalt pavers since 1965.



Ground level access

Most daily service and maintenance checks can be made quickly, safely and easily from ground level.



Sensor feed system

Sonic sensors automatically regulate the flow and delivery of material for smooth paving.

Volvo Engine

The proven Volvo D6 Tier 4 Final engine is tailored to the needs of the paver, lowering noise, vibration and fuel consumption without affecting paving performance.

CareTrack

An array of important paver data can be accessed remotely, thanks to Volvo's CareTrack telematics system.

VERSATILE SCREED

UltiMat 160 screed with rear mounted extensions gives you the best paving quality, uniformity and smoothness. Add or remove extensions in minutes thanks to Volvo's quick coupling system.

P5170B wheeled paver

PROVEN AND TESTED DESIGN

Built by experts – with expert customer input – delivering proven reliability on American jobsites.

Operator station

Operator seats and consoles are adjustable for comfort and to optimize the view of the work area. Paving controls are grouped by function and backlit for easy identification in all light conditions.

Built to last

Durable rolled hopper wings help prevent material build-up and reduce clean up, while the large hopper is generously sized for continuous paving.

Front wheel assist

Optional front two-wheel or four-wheel assist is available to improve the tractive effort and gradeability.

Operator friendly

Simple controls and behind-the-scenes technology allows operators to concentrate on the material flow and the road ahead.



Road institute

The Volvo Road Institute has been teaching paving crews and technicians how to operate and service asphalt pavers since 1965.



Ground level access

Most daily service and maintenance checks can be made quickly, safely and easily from ground level.

Volvo Engine

The proven Volvo D6 Tier 4 Final engine is tailored to the needs of the paver, lowering noise, vibration and fuel consumption without affecting paving performance.

CareTrack

An array of important paver data can be accessed remotely, thanks to Volvo's CareTrack telematics system.

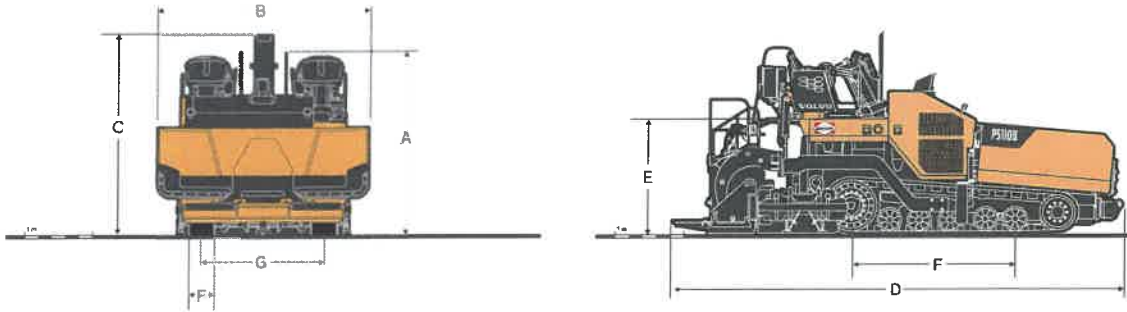
Sensor feed system

Sonic sensors automatically regulate the flow and delivery of material for smooth paving.

VERSATILE SCREED

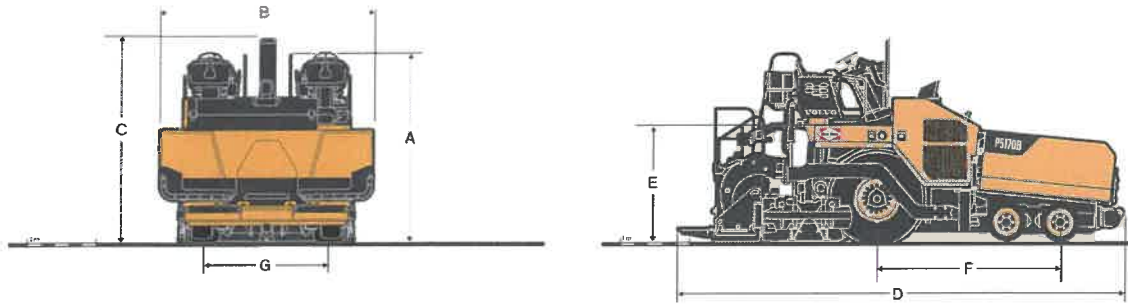
UltiMat 160 screed with front mounted extensions gives you the best paving quality, uniformity and smoothness. Add or remove extensions in minutes thanks to Volvo's quick coupling system.

Specifications P5110B Tracked Paver



Model			P5110B	
Machine Dimensions				
Basic Screed Width	m	ft	2.5	8'
Max Paving Width	m	ft	5.5	18'
Paving Depth	mm	in	6 - 229	0.25" - 9"
B Shipping Width w/ Endgates (Hoppers Up)	mm	in	2,756	108.5"
Shipping Width w/o Endgates (Hoppers Up)	mm	in	2,532	100"
B Operating Width (Hoppers Down)	mm	in	3,193	126"
C Operating Height / Shipping Height	m	ft	3.0	9' 11"
A Railing Height	mm	in	2,781	109.5"
E Deck Height	mm	in	1,715	67.5"
D Operating Length	m	ft	6.6	21' 9"
Shipping Length (Screed down)	m	ft	6.3	20' 7"
Hopper Length	mm	in	2,057	81"
Truck Clearance Width (Hoppers down)	mm	in	3,048	120"
Auger Diameter	mm	in	406	16"
Adjustable Height Augers (from ground)	mm	in	68 - 229	3" - 9"
G Gauge - Track	mm	in	1,863	73"
Ramp Loading Angle	°	°	12	12
Weights				
Shipping Weight Of Tractor Only	kg	lb	15,900	34,950
with UltiMat 160 screed	kg	lb	18,800	41,350
Suspension				
Description	Continuous rubber track with tandem bogie system			
F Track length on Ground (center to center)	mm	in	3,035	120"
H Track Width	mm	in	406	16"
Engine				
Make / Model	Volvo D6J / EPA Tier 4 final			
Rated Power @ 2,000 r/min	kW	hp	129	173
Propulsion				
Description	2-speed drive motors, single speed planetary			
Traction Drive	Hydrostatic direct drive			
Paving Speed	m/min	ft/min	0 - 55	0 - 180
Travel Speed	km/h	mi/h	0 - 13.5	0 - 8.4
Miscellaneous				
Fuel Tank Capacity	l	gal	246	65
DEF Tank Capacity	l	gal	21	5.5
Hydraulic Tank Capacity	l	gal	95	25.1
Cooling Capacity	l	gal	27	7.1
Hopper Capacity (includes tunnel)	t / m ³	T / cu ft	11/6.4	12/225

Specifications P5170B Wheeled Paver



Model			P5170B	
Machine Dimensions (subject to change without notice)				
Basic Screed Width	m	ft	2.5	8'
Max Paving Width	m	ft	5.5	18'
Paving Depth	mm	in	6 - 254	0.25" - 10"
B Shipping Width with endgates (Hoppers Up)	mm	in	2,756	108.5"
Shipping Width without endgates (Hoppers Up)	mm	in	2,532	100"
B Operating Width (Hoppers Down)	mm	in	3,193	126"
C Operating Height / Shipping Height	m	ft	3.0	9' 11"
A Railing Height	mm	in	2,804	110.4"
E Deck Height	mm	in	1,739	68.4"
D Operating Length	m	ft	6.6	21' 9"
Shipping Length (screed down)	m	ft	6.3	20' 7"
Hopper Length	mm	in	2,057	81"
Truck Clearance Width (Hoppers down)	mm	in	3,048	120"
Auger Diameter	mm	in	406	16"
Adjustable Height Augers (from ground)	mm	in	51 - 229	2" - 9"
G Gauge - Wheel	mm	in	1,879	74"
Ramp Loading Angle			12	
Weights				
Shipping Weight Of Tractor Only	kg	lb	14,900	32,800
with UltiMat 160 screed	kg	lb	17,800	39,200
Suspension				
Description	2- Drive wheels, 4-front bogies			
	Optional Front Wheel Assist (2 or 4 wheel)			
F Wheelbase	mm	in	2,729	107"
Drive Tire Size	in		16-24 16-ply	
Front Wheel Size	in		23" OD x 13.3 Wide	
Engine				
Make / Emissions level	Volvo D6J / EPA Tier 4 Final			
Rated Power @ 2,000 r/min	kW	hp	129	173
Propulsion				
Description	2-speed drive motors, single speed planetary			
Traction Drive	Hydrostatic direct drive			
Paving Speed	m/min	ft/min	0 - 73	0 - 240
Travel Speed	km/h	mi/h	0 - 18	0 - 11
Miscellaneous				
Fuel Tank Capacity	l	gal	246	65
DEF Tank Capacity	l	gal	21	5.5
Hydraulic Tank Capacity	l	gal	95	25.1
Cooling Capacity	l	gal	27	7.1
Hopper Capacity (includes tunnel)	t / m ³	T / cu ft	11/6.4	12/225
Turning radius (minimum)	mm	in	2,000	79"

Screed specifications

UltiMat 160



SCREED SPECIFICATIONS

Matched to your application. Gain an advantage with the versatility of Volvo screeds.

Model	UltiMat 160			
	Front-mounted extensions			
Vibration / Tamping System	Vibratory			
Basic Screed Width	m	ft	2.5	8'
Standard Paving Width	m	ft	2.5 - 4.9	8' - 16"
Max Paving Width	m	ft	5.5	18"
Paving Depth	mm	in	6 - 254	0.25" - 10"
Screed Plate Depth - Main	mm	in	724	28.5"
Screed Plate Depth - Extensions	mm	in	216	8.5"
Screed Weight	kg	lb	2,900	6,400
Vibratory Speed	Hz	r/min	17 - 42	1,200 - 2,500
Multiple bolt-on extensions available	Yes			
Tapered joint extensions available	Yes			
Screed remote control unit available	Yes			
Screed Heat Type	Electric			

Equipment

STANDARD EQUIPMENT	P5110B	P5170B
4-sensor feed system	•	•
Adaptive Engine Speed Control	•	•
Adjustable screed tow arms	•	•
Automatic auger / conveyor Prime Mode	•	•
Automatic track tensioning	•	•
Battery disconnect switch	•	•
Color functions display with speed limiter	•	•
Console gauge package	•	•
Console switches backlighting	•	•
Cup holders	•	•
Dual operator consoles with vandal covers	•	•
Dual screed control consoles	•	•
Emergency stop switches	•	•
Extensive hand-rails for deck and steps	•	•
Grade and slope control ready	•	•
Ground level DEF fill with locking cover	•	•
Ground level fuel fill with lockable cap	•	•
Hopper locks	•	•
Hydraulic auger height adjustment	•	•
Independent augers and conveyors	•	•
Interchangeable drop in floor plates	•	•
Low fuel alarm	•	•
Maintenance-free bearings in the material flow system	•	•
Manually tensioned conveyors	•	•
Outboard conveyor drive motors	•	•
Side extendable, rotating seats	•	•
SmokeEater Fumes Extraction	•	•
Smooth drive tracks	•	•
Tivar® polymer spill guards	•	•
Volvo D6 Tier 4 Final engine	•	•

OPTIONAL EQUIPMENT	P5110B	P5170B
Auger Kit, 2 ft. Extension / 10 ft. Paving Width	•	•
Auger Kit, 1.2 m / 4 ft Extension / 3.7 m / 12 ft Paving Width	•	•
Auger Kit, 1.8 m / 6 ft Extension / 4.9 m / 16 ft Paving Width	•	•
Auger Reverse Function	•	•

OPTIONAL EQUIPMENT	P5110B	P5170B
Backup Alarm	•	•
Balloon Lights	•	•
Blow Control, Mechanical and Sonic	•	•
Caretrack telematics	•	•
Chain Curtains	•	•
Conveyor Reverse Function	•	•
Engine Automatic Shutdown	•	•
Custom Paint	•	•
Emergency Drive Control	•	•
Flow Gates, Powered	•	•
Front Bogie Wheels, OWD, 2WD or 4WD	•	•
Generator, 18 kW or 27kW	•	•
Hopper Extensions	•	•
Jumper Cable Studs, Remote LH	•	•
Louvers, LH Door	•	•
Material Indicator	•	•
Mechanical Averaging Ski, 9.1 m / 30 ft	•	•
Operator's Manual, French or Spanish	•	•
Plow, Track or Wheel	•	•
Power Extending Tunnels, 0.81 m / 32 in	•	•
Power Outlet Box, 3 Receptacle	•	•
Push Roller	•	•
Radiator Debris Screen	•	•
Screed Assist, 3 Function	•	•
Screed, Bolt-on Extensions and cut-off plates	•	•
Screed, Depth Cranks, ACME or Ball	•	•
Screed, Heated End Gates	•	•
Screed, Extension Remote Control	•	•
Screed, UltraMat 160, Standard or with 457 mm / 18 in berm	•	•
Service Analyzer Connection Kit	•	•
2-sensor feed system	•	•
Strobe Light	•	•
Tow Point Indicator	•	•
Truck Hitch, powered	•	•
Umbrella, Tractor Operator	•	•
Wash-down System, Basic or Deluxe	•	•
Worklights, Auger, LED	•	•
Worklights, Front and Rear LED	•	•

Tivar® is a registered trademark of the Quadrant group of companies.

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Powered extending tunnels



Auger work lights LED



Flow gates, powered



Radiator debris screen



Tow point indicator



Plow, track or wheel



Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

VOLVO

Volvo Construction Equipment

volvo.com