



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: 323024

Doc Description: Addendum No.01 - Pipestem - Heavy Equipment

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2017-06-01	2017-06-08 13:30:00	CRFQ 0310 DNR1700000057	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:

STATE EQUIPMENT, INC.  
 P.O. BOX 3939  
 CHARLESTON, WV 25339  
 (304)776-4405

06/07/17 10:57:26  
 WV Purchasing Division

**FOR INFORMATION CONTACT THE BUYER**

Brittany E Ingraham

(304) 558-2157

brittany.e.ingraham@wv.gov

Signature

FEIN # 550658298

DATE 6/7/17

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

**ADDITIONAL INFORMATION:**

Addendum

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

\*\*\*\*\*

Request for Quotation

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Natural Resources, Parks and Recreation Section, to establish a one-time purchase of various heavy equipment for Pipestem Resort State Park, 3405 Pipestem Drive, Pipestem, WV, 25979 per the bid requirements, specifications, terms and conditions attached to this solicitation.

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES PIPESTEM STATE PARK RR 20 BOX 150 PIPESTEM WV25979-0150 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES PIPESTEM STATE PARK 3405 PIPESTEM DR PIPESTEM WV 25979-0150 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Skid Steer Loader	1.00000	EA	\$42,720.00	\$42,720.00

Comm Code	Manufacturer	Specification	Model #
22101529	CASE	SKID STEER LOADER	SV340

Extended Description :

Skid Steer Loader

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES PIPESTEM STATE PARK RR 20 BOX 150 PIPESTEM WV25979-0150 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES PIPESTEM STATE PARK 3405 PIPESTEM DR PIPESTEM WV 25979-0150 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Backhoe Loader	1.00000	EA	\$61,533.00	\$61,533.00

Comm Code	Manufacturer	Specification	Model #
22101509	CASE	BACKHOE LOADER	580N

Extended Description :

Backhoe Loader

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES PIPESTEM STATE PARK RR 20 BOX 150		SUPERINTENDENT DIVISION OF NATURAL RESOURCES PIPESTEM STATE PARK 3405 PIPESTEM DR	
PIPESTEM	WV25979-0150	PIPESTEM	WV 25979-0150
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Deckover Split Tilt Trailer	1.00000	EA	\$15,117.00	\$15,117.00

Comm Code	Manufacturer	Specification	Model #
25181702	HUDSON	DECKOVER SPLIT TILT TRAILER	HTD20C

**Extended Description :**  
Heavy Duty Deckover Split Tilt Trailer

<b>DNR170000057</b>	<b>Document Phase</b> Final	<b>Document Description</b> Addendum No.01 - Pipestem - Heavy Equipment	<b>Page 4</b> <b>of 4</b>
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**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

Exhibit A - Pricing Page  
 West Virginia Division of Natural Resources-Parks and Recreation Section  
 Skid Steer Loader, Backhoe Loader and Split Trailer for Pipstem Resort State Park

Item No.	Description	*Manufacturer, Model, and Year of Item Bid	Quantity	Unit Price	Extended Price
3.1.1	Skid Steer Loader	CASE SV340 (2017)	1	\$42,720.00	\$42,720.00
3.1.2	Backhoe Loader	CASE 580N (2017)	1	\$61,533.00	\$61,533.00
3.1.3	Deckover Split Tilt Trailer	HUDSON HTD20C (2017)	1	\$15,117.00	\$15,117.00
<b>Total Bid Amount (Bid price must include shipping/freight charges)</b>					\$119,370.00

\*Vendor should include manufacturer's literature documenting it meets the mandatory requirements stated in the specifications. Vendors should note the areas of the provided manufacturer's literature that adheres to the mandatory requirements outlined in the RFQ. This information may be required before award.

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:** \_\_\_\_\_


**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 type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input 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.

STATE EQUIPMENT, INC.  
 \_\_\_\_\_  
 Company  
  
 \_\_\_\_\_  
 Authorized Signature  
 6/7/17  
 \_\_\_\_\_  
 Date

**NOTE:** This addendum acknowledgement should be submitted with the bid to expedite document processing.  
Revised 6/8/2012

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

  
 \_\_\_\_\_  
 (Name, Title)

EDDIE ROWAN, JR GENERAL MANAGER

\_\_\_\_\_  
 (Printed Name and Title)

560 NEW GOFF MOUNTAIN ROAD CROSS LANES, WV 25313

\_\_\_\_\_  
 (Address)

(304)776-4405 (30)776-4409

\_\_\_\_\_  
 (Phone Number) / (Fax Number)

EDDIE@STATEEQUIPMENT.COM

\_\_\_\_\_  
 (email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

STATE EQUIPMENT, INC.

\_\_\_\_\_  
 (Company)

  
 \_\_\_\_\_  
 (Authorized Signature) (Representative Name, Title)

EDDIE ROWAN, JR GENERAL MANAGER

\_\_\_\_\_  
 (Printed Name and Title of Authorized Representative)

6/7/17

\_\_\_\_\_  
 (Date)

(304)776-4405 (304)776-4409

\_\_\_\_\_  
 (Phone Number) (Fax Number)

State of West Virginia

**VENDOR PREFERENCE CERTIFICATE**

Certification and application is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

- 1.  **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification;  
 Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

- 2.  **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

- 3.  **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's employees or the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; or,

- 4.  **Application is made for 5% vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

- 5.  **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

- 6.  **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

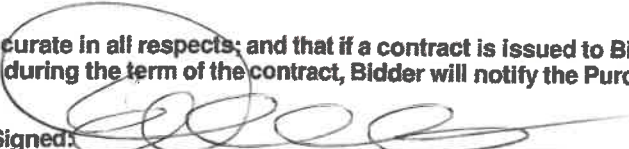
- 7.  **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with *West Virginia Code* §5A-3-59 and *West Virginia Code of State Rules*.**  
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) rescind the contract or purchase order; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

**Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.**

Bidder: STATE EQUIPMENT, INC.

Signed: 

Date: 6/7/17

Title: GENERAL MANAGER

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.



STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** 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 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: STATE EQUIPMENT, INC.

Authorized Signature: [Handwritten Signature] Date: 6/7/17

State of WEST VIRGINIA

County of KANAWHA, to-wit:

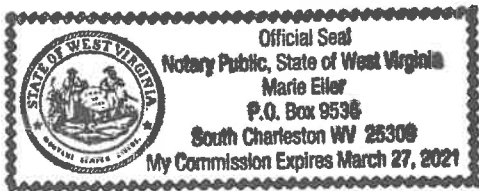
Taken, subscribed, and sworn to before me this 7<sup>th</sup> day of June, 2017.

My Commission expires March 27, 2021.

**AFFIX SEAL HERE**

**NOTARY PUBLIC** Marie Eller

*Purchasing Affidavit (Revised 08/01/2015)*





## ENGINE

Model	FPT F5B FL413 E*B002
Emissions Certification	Tier 4 Final
Type	Diesel, Turbo – Direct Injection
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	Direct
Fuel	#2 Diesel
Fuel filter:	
Pre-filter	Beta (30) = 200/spin-on
Main filter	Beta (4) = 20/spin-on
Air intake	Turbocharged w/ waste gate and external cooled EGR
Exhaust aftertreatment	Selective Catalytic Reduction – SCR
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2500 +/- 25
Rated – full load	2500
Low idle	1150 +/- 25
Horsepower @ 2500 RPM – SAE J1349:	
Gross	90 hp (67 kW)
Net	84 hp (63 kW)
Peak torque @ 1400 RPM	282 lb-ft (383 N-m)
Radiator:	
Core type	Aluminum bar and plate
Core size area	2.21 ft <sup>2</sup> (0.206 m <sup>2</sup> )
Rows of tubes	21
Cap pressure	16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan:	
Diameter	22 in (560 mm)
Ratio	1.1:1
Water pump:	
Style	Centrifugal
Flow	47.8 gpm (181 L/min)
Engine lubrication pump	Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles
Pump operating angle ratings:	
Side to side	45°
Bucket up	35°
Bucket Down	45°

## LIFT GEOMETRY

Vertical Lift

## DRIVETRAIN

Drive pump controls	Servo-assist mechanical
Pump to engine ratio	1:1
Displacement	2.81 in <sup>3</sup> (46 cm <sup>3</sup> )
Flow @ rated engine RPM:	
@ 97% efficiency	29.4 gpm (111 L/min)
Charge pressure	360 psi (24.5 bar)
System relief pressure	5,220 psi (360 bar)

Drive pump controls	Electro-hydraulic
Pump to engine ratio	1:1
Displacement	2.75 in <sup>3</sup> (45 cm <sup>3</sup> )
Flow @ rated engine RPM:	
@ 97% efficiency	28.8 gpm (109 L/min)
Charge pressure	362 psi (25 bar)
System relief pressure	5,220 psi (360 bar)

Drive motors:	
Max. displacement	28.7 in <sup>3</sup> (470 cm <sup>3</sup> )
Displacement – optional:	
High speed	17.2 in <sup>3</sup> (282 cm <sup>3</sup> )
Motor RPM @ high idle and 97% efficiency:	
Standard 1-speed	237
Optional 2-speed	355
Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar):	1,987 lb-ft (2 694 N-m)

Travel speed:	
Low range	7.7 mph (12.4 kph)
High range – optional	11.5 mph (18.5 kph)

Final drive Single-reduction chain drive

Drive chain:	
Size	ASA #100
Tensile strength	30,000 lb (133.4 kN)

Axles:	
Torque @ max. displacement and relief pressure	5,957 lb-ft (8 077 N-m)
Diameter	2.44 in (62 mm)
Length	15.6 in (396 mm)

Parking brake:	
Type	Spring-applied, hydraulic release multiple disc.
Engagement	Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat or stop engine.

## ELECTRICAL

Alternator	160 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance 1,000 cold-cranking amps @ 0° F (-18° C°)

## OPERATOR ENVIRONMENT

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized – FSP; Glass door w/ wiper and washer; Sliding side windows – removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS;

Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt, w/ heater and lumbar support; Hand and foot throttle; Alarm package – back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat Pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional auxiliary hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, fuel level LCD bar graph w/ alarm, DEF Level, diagnostic features and security lockout.

Warning lights with alarms:  
Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:  
Battery voltage – plus display; Diesel Exhaust Fluid (DEF); Oil service.

Indicator light:  
Engine preheat; Parking brake;  
Seat bar reminder.

## OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 78 in Heavy-Duty bucket; full of fuel; 14 x 17.5 tires:	9,100 lb (4 136 kg)
Shipping weight	8,557 lb (3 890 kg)

Add-on weights:	
Side cab glass	47 lb (21.3 kg)
Polycarbonate cab door	75 lb (34.0 kg)
Glass cab door w/ wiper	75 lb (34.0 kg)
Suspension seat	22 lb (10.0 kg)
Additional counterweight	300 lb (136.0 kg)

## HYDRAULICS

Implement pump type	Gear
Displacement:	
Standard aux.	2.23 in <sup>3</sup> (36.6 cm <sup>3</sup> )
High-flow aux.	1.42 in <sup>3</sup> (23.3 cm <sup>3</sup> )

Standard flow @ rated engine RPM:  
@ 100% efficiency 24.2 gpm (91.5 L/min)

Optional high-flow @ rated engine RPM:  
@ 100% efficiency 38.7 gpm (146.5 L/min)

Enhanced high-flow @ rated engine RPM:  
@ 100% efficiency 35.0 gpm (132.5 L/min)

Loader control valve:	
Type	3 spool/open center/series - series
Relief pressure	3,450 psi (238 bar)

Port relief pressures:	
Loader raise	3,625 psi (250 bar)
Bucket curl	3,916 psi (270 bar)
Bucket dump	3,625 psi (250 bar)

Hydraulic lines:	
Tubing	ORFS + 37° JIC Flare
Loop hoses	SAE 100 R19

## HYDRAULICS CONT.

### Hydraulic oil cooler:

Number of fins	10 per inch (3.94 per cm)
Number of tube rows x columns	9 bar/plate
Area	138.7 in <sup>2</sup> (890 cm <sup>2</sup> )

Hydraulic filter Beta (4) = 75/spin-on

### Lift cylinders:

Bore diameter	2.75 in (69.85 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	34.9 in (886.5 mm)
Closed length	47.4 in (1 205 mm)

### Bucket cylinders:

Bore diameter	3.0 in (76.2 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	15.7 in (398 mm)
Closed length	24.0 in (610 mm)

## SERVICE CAPACITIES

Fuel tank 25.5 gal (96.5 L)

Engine oil w/ filter 8.9 qt (8.5 L)

### Hydraulic system:

Reservoir	6.0 gal (22.7 L)
Total	12.0 gal (45.4 L)

Chain tanks – per side 5.9 gal (22.2 L)

Diesel Exhaust Fluid (DEF) Tank 2.8 gal (10.7 L)

## PERFORMANCE SPECS

### Rated operating capacity – ROC\*:

50% of tipping load 3,400 lb (1 545 kg)  
w/ additional counterweight 3,650 lb (1 656 kg)

Tipping load\* 6,800 lb (3 090 kg)

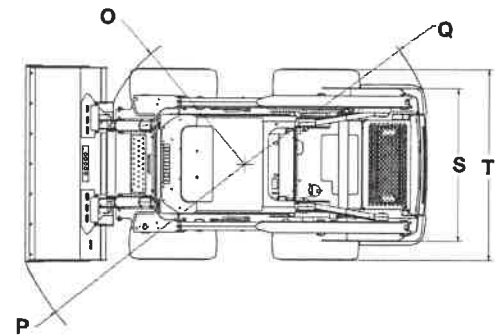
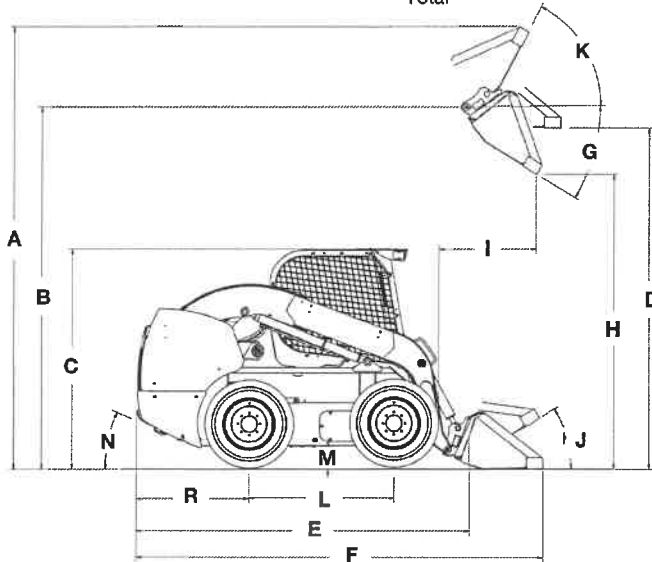
### Breakout forces @ 3,150 psi (217 bar)\*:

Bucket cylinders 9,531 lb (42.4 kN)  
Lift cylinders – tip limit 6,816 lb (30.3 kN)

### Cycle times:

Raise	4.6 sec
Lower	3.5 sec
Dump	2.6 sec
Roll back	2.0 sec

NOTE: \*Measured using 72 in (1.83 m) dirt and foundry bucket.



Line drawings are for illustrative purpose only and may not be exact representation of unit.

## DIMENSIONS

<b>A.</b> Overall operating height:		
with foundry/excavating bucket		160.4 in (4.07 m)
with low profile bucket		164.4 in (4.18 m)
with low profile extended bucket		169.5 in (4.30 m)
Height to:		
<b>B.</b> Bucket hinge pin		130.0 in (3.30 m)
<b>C.</b> Top of ROPS		78.8 in (2.00 m)
<b>D.</b> Bottom of level bucket, fully raised		124.8 in (3.17 m)
Overall length:		
<b>E.</b> without attachment with coupler		119.1 in (3.02 m)
<b>F.</b> with foundry/excavating bucket on ground		144.0 in (3.66 m)
with low profile bucket		148.0 in (3.76 m)
with low profile extended bucket		153.1 in (3.89 m)
<b>G.</b> Maximum dump angle		46.7°
<b>H.</b> Dump height:		
with foundry/excavating bucket		103.5 in (2.63 m) @ 45°
with low profile bucket		100.6 in (2.56 m) @ 45°
<b>I.</b> Dump reach at maximum height with low profile bucket		29.3 in (0.74 m) @ 45°
Maximum attachment rollback:		
<b>J.</b> Bucket on ground		35.0°
<b>K.</b> Bucket at full height		86.0°
<b>L.</b> Wheelbase		52.0 in (1.32 m)
<b>M.</b> Ground clearance – bottom of belly pan		8.0 in (0.20 m)
<b>N.</b> Angle of departure		23.5°
Clearance circle:		
<b>O.</b> without bucket		56.2 in (1.43 m)
<b>P.</b> with 72 in (1.83 m) foundry/excavating bucket in carry position		84.1 in (2.14 m)
with 72 in (1.83 m) low profile bucket on ground		87.8 in (2.23 m)
with 72 in (1.83 m) extended low profile on ground		71.2 in (2.35 m)
<b>Q.</b> Clearance circle rear		70.4 in (1.81 m)
<b>R.</b> Rear axle to bumper		42.4 in (1.08 m)
<b>S.</b> Tread over gauge with spec tires		56.9 in (1.45 m)
<b>T.</b> Over the tire width spec tires		69.6 in (1.77 m)

## TIRE SELECTION

Type	Size	Tread Gauge	Over Tires Width	Each Tire Weight*
Heavy-Duty	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	110 lb (50 kg)
Premium	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	119 lb (54 kg)
Premium-Lined	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	119 lb (54 kg)
Severe-Duty	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	135 lb (61 kg)
Non-Pneumatic – Solid	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	280 lb (127 kg)
Mining	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	380 lb (173 kg)
Flotation	33 L x 15.5 x 16.5	59.0 in (1.50 m)	76.0 in (1.93 m)	143 lb (65 kg)
Premium	14 L x 17.5	62.0 in (1.58 m)	76.0 in (1.93 m)	148 lb (67 kg)

NOTE: \*Tire weight does not include the wheel weight.

## OPTIONAL BUCKETS

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft <sup>3</sup> (0.46 m <sup>3</sup> )
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft <sup>3</sup> (0.42 m <sup>3</sup> )
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft <sup>3</sup> (0.66 m <sup>3</sup> )
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft <sup>3</sup> (0.78 m <sup>3</sup> )
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft <sup>3</sup> (0.64 m <sup>3</sup> )
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft <sup>3</sup> (0.40 m <sup>3</sup> )
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft <sup>3</sup> (0.44 m <sup>3</sup> )
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft <sup>3</sup> (0.48 m <sup>3</sup> )
Heavy-Duty with spillguard	72 in (1.83 m)	585 lb (265 kg)	18.4 ft <sup>3</sup> (0.52 m <sup>3</sup> )
	78 in (1.98 m)	605 lb (275 kg)	19.8 ft <sup>3</sup> (0.56 m <sup>3</sup> )
	84 in (2.13 m)	640 lb (290 kg)	21.5 ft <sup>3</sup> (0.61 m <sup>3</sup> )

## STANDARD EQUIPMENT

### OPERATOR ENVIRONMENT

See page 1

### ENGINE

FPT F5B FL413 E\*B002  
207 CID (3.4 L) Turbo  
Tier 4 Final Certified  
Diesel Oxidation Catalyst (DOC) with  
Selective Catalytic Reduction  
(SCR) muffler  
Charged Air Cooler (CAC)  
High Pressure Common Rail (HPCR)  
fuel injection  
Horsepower:  
Gross: 90 hp (67 kW)  
Net: 84 hp (63 kW)  
Peak torque 282 lb-ft (383 N-m)  
160 amp alternator  
Dual element air cleaner  
Organic Acid Technology (OAT)  
Anti-freeze solution to -34° F  
Fuel tank - 25.5 gal (U.S.)  
Over and under radiator and oil cooler  
3-stack after cooler/radiator/oil  
cooler configuration  
Glow plugs

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy  
with side screens  
Keyed start ignition  
Ventilation system with integrated heater  
Electro-hydraulic controls:  
For drive/steering, loader functions  
Switchable between H and ISO patterns  
Adjustable sensitivity of controls  
Mechanical hand controls  
Hand and foot controls:  
Hand controls the loader drive function  
and foot controls the bucket and boom  
Non suspension seat  
Suspension seat, vinyl  
Open cab interior trim package  
Demolition cab door with polycarbonate  
FOPS level 2

Integral engine oil cooler  
Fuel filter with water trap  
1,000 CCA 12V battery  
Master electrical disconnect

### DRIVETRAIN

2-speed hydrostatic four wheel drive  
ASA #100HS drive chain  
SAHR disc parking brake

### HYDRAULICS

Auxiliary hydraulics:  
@ 3,450 psi (238 bar) – 24.2 gpm  
(91.5 L/min)  
6 micron oil filtration system  
3-spool loader control valve  
Auxiliary hydraulic disconnects, ISO  
flat-face – connect-under-pressure  
with case drain  
Hydraulic circuit pedal lock  
Auxiliary function lockout override  
Loader lift lockout override  
Heavy-duty hydraulic oil cooler  
Loader arm float position  
Hydraulic one-way self-leveling  
Ride control  
Connect under pressure auxiliary  
hydraulic disconnects

### HYDRAULICS

High-flow auxiliary hydraulics – combined:  
@ 3,450 psi (238 bar) – 38.7 gpm  
(146.5 L/min)  
Enhanced High-Flow auxiliary hydraulics – EHF:  
@ 4,000 psi (276 bar) – 35.0 gpm  
(132.5 L/min)  
Second auxiliary hydraulics

### LOADER

Auxiliary front electric control  
Hydraulic attachment coupler

### LOADER

Heavy duty hydraulic attachment coupler  
Vertical lift geometry  
Loader lift arm support strut  
SAE operating load: 3,400 lbs  
Tipping load: 6,800 lbs  
In-cab loader lock

### TIRES

14 X 17.5 Heavy duty

### OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood  
Heavy duty front lights  
Pre-wired for rotating beacon  
Lockable service access hood  
Single-point daily service  
Rear tail lights  
Remote oil drain  
Remote oil and fuel filters  
Block heater  
Debris ingress sealing  
Mounting points for add-on counterweights  
Heavy duty rear door  
Deluxe cloth, air suspension seat

### OTHER

Language decals  
Factory-installed tires – see page 3  
Buckets – see page 3  
Bolt-on bucket cutting edges  
Bolt-on heavy-duty bucket spill guard  
Special paint  
Offsite service arrangement  
Telematics

### FACTORY SUPPLIED ATTACHMENTS

Interior mirror  
Add-on counterweights  
Road lights  
Rotating beacon  
Four-corner LED strobe  
Bolt-on heavy-duty bucket teeth  
48 in (1.22 m) pallet forks

### SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

CaseCE.com

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IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

Form No. CCE201608SV340

SV340

4 of 4

**CASE**  
CONSTRUCTION

# Skid Steer Loaders

ALPHA SERIES



RADIAL

SR130  
SR160

SR175  
SR210

SR240  
SR270

VERTICAL

SV185  
SV280

SV340

**SINCE 1842**



**SR130**



**SR160**



**SR175**



**SV185**



**SR210**



**SR240**



**SR270**



**SV280**



**SV340**

# *Digging, loading, pushing or grading.*

CASE Alpha Series loaders are designed to work.

- + Performance designed for maximum breakout force
- + Optimized hydraulic horsepower
- + Best-in-class visibility
- + Push button ride control™
- + Speed and controls customization with EZ-EH controls
- + Maintenance-free Tier 4 Final Solutions
- + Largest cab for operator comfort





## YOU BE THE JUDGE

### **TORQUE**

Need to run your loader longer, stronger, and more profitably? No problem with CASE's heavy-duty rotation force—get up to 282 lb.-ft. (383 N-m) at 1,400 RPM—more power than ever before.

### **BREAKOUT FORCE**

What contractor doesn't enjoy breaking into massive piles and lifting them effortlessly with more than 8,700 lbs. (38.7 kN) of breakout force? CASE makes it easy.

### **AUXILIARY HYDRAULIC PACKAGES**

Like a little extra power with your SSL? With CASE, you can put up to 4,000 psi at your disposal to run bigger attachments longer. The Alpha Series offers three different auxiliary hydraulic packages: standard, high-flow and enhanced high-flow. It also offers secondary auxiliary hydraulics for applications requiring multiple hydraulic movements simultaneously.



**CASE**  
CONSTRUCTION

# Skid Steer Loaders

ALPHA SERIES





**SR130**



**SR160**



**SR175**



**SV185**



**SR210**



**SR240**



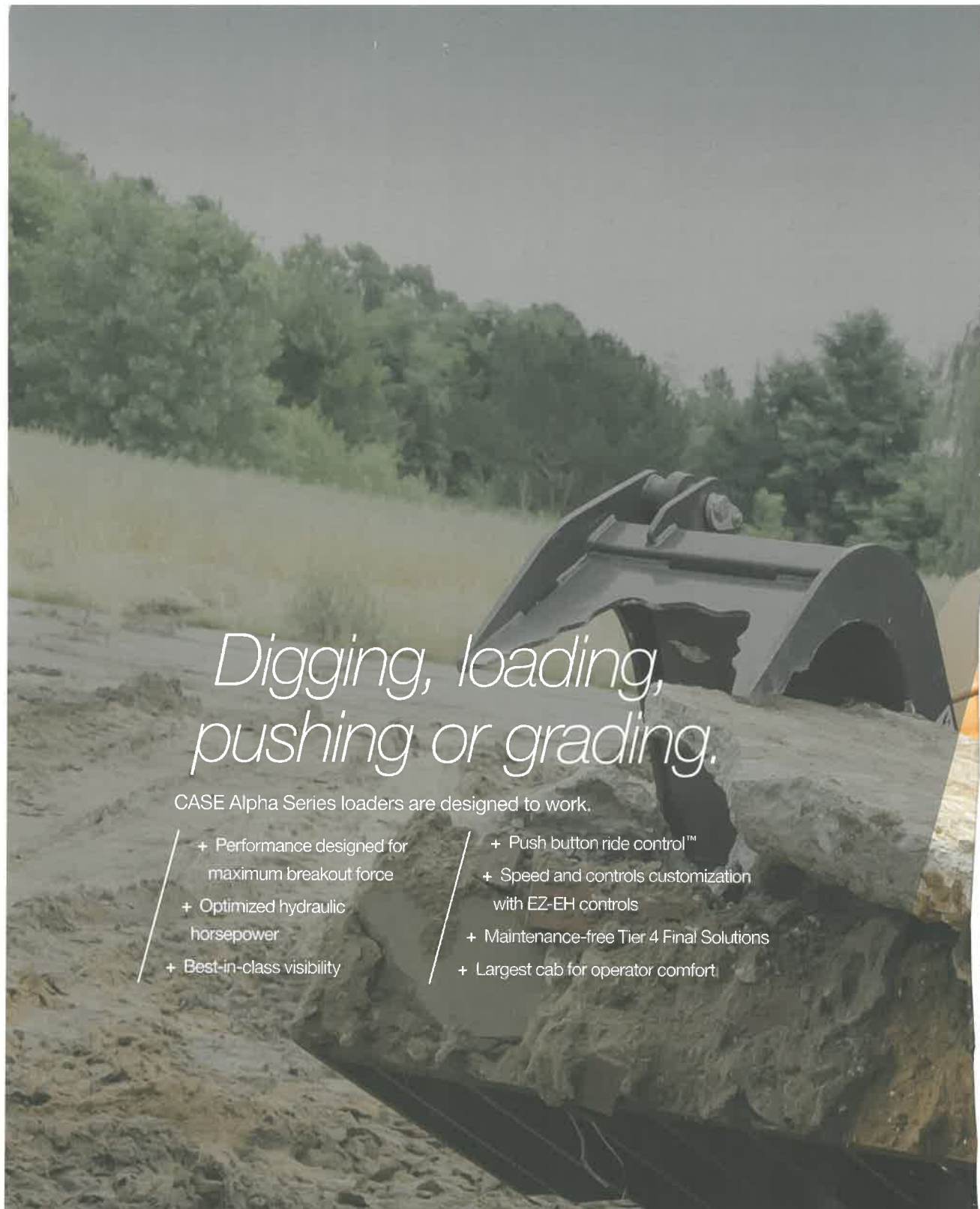
**SR270**



# *Digging, loading, pushing or grading.*

CASE Alpha Series loaders are designed to work.

- + Performance designed for maximum breakout force
- + Optimized hydraulic horsepower
- + Best-in-class visibility
- + Push button ride control™
- + Speed and controls customization with EZ-EH controls
- + Maintenance-free Tier 4 Final Solutions
- + Largest cab for operator comfort





## YOU BE THE JUDGE

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**BEST-IN-CLASS VISIBILITY**

Easily see what's all around you with industry-leading visibility and standard side lighting. And thanks to our industry-exclusive standard side lighting, operators can maneuver quicker and more confidently at any time—that's safe operation.



## TIER 4 DONE RIGHT, MADE EASY

One solution does not fit all. CASE carefully considered each machine's application, life expectancy, maintenance needs and operators. That's why every CASE skid steer loader features a proven Tier 4 Final solution that is tailored for that model. The result? Compliance without compromise or complexity. CASE Tier 4-certified equipment is easier to maintain and, unlike competitive models, won't require you to master additional maintenance procedures. In fact, most CASE machines have maintenance-free emission solutions, so you can stay focused on your work — and not maintaining your machine.

### CASE Tier 4 Final Solutions in Simple Language

#### CEGR

**What it means:** Cooled Exhaust Gas Recirculation. For Tier 4 Final, it works with a combination of the after-treatment technologies listed below.

**What it means to you:** As an in-engine system, CEGR requires no operator maintenance or management. CEGR is included in all CASE skid steer loader models (excluding SR130).

#### DOC

**What it means:** Diesel Oxidation Catalyst. The DOC oxidizes the machine's exhaust to create heat and manage emissions.

**What it means to you:** DOC is a maintenance-free solution — no fluids to add and no filter to replace.

#### DPF

**What it means:** Diesel Particulate Filter. The DPF captures particulate matter and burns off the captured particulate matter through a combustion process known as "regeneration." This solution is less expensive for the manufacturer, keeping the unit price down. CASE chose this solution only in its smaller, price-sensitive units. This solution

#### PM Catalyst

**What it means:** Particulate Matter Catalyst. This is made up of a DOC and a high-efficiency flow-through filter. The DOC oxidizes the machine's exhaust to create heat and manage emissions. The remaining particulate matter then passes through to the filter where it is slowed and burned.

**What it means to you:** PM Catalyst is a maintenance-free solution — no fluids to add and no filter to replace.

#### SCR

**What it means:** Selective Catalytic Reduction. It's a simple after-treatment solution that combines DEF (Diesel Exhaust Fluid) with exhaust to convert emissions into nitrogen and water. DEF, also commonly referred to as urea, is a non-toxic liquid that reacts with engine exhaust in the presence of a catalyst to perform the emissions conversion.

**What it means to you:** Because SCR is an after-treatment system, it lowers exhaust temperatures and does not require unproductive fuel use associated with burning off particulate matter — great for larger engines. This offers a significant reduction in fuel use and has no DPF to replace. Keeping it running is simple.



*We made it simple.  
The right solution  
for the right machine  
for the task.*

	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
<b>Gross HP</b>	49	60	67	60	74	74	90	74	90
<b>Maintenance Free</b>			✓	✓	✓	✓		✓	
<b>Minimal DEF Required</b>							✓		✓
<b>No DPF Filter to Replace</b>			✓	✓	✓	✓	✓	✓	✓
<b>Increased Fuel Efficiency</b>			✓	✓	✓	✓	✓	✓	✓
<b>Tier 4 Final Solution</b>	DOC DPF	CEGR DOC DPF	CEGR DOC	CEGR DOC	CEGR PM Catalyst	CEGR PM Catalyst	CEGR DOC SCR	CEGR PM Catalyst	CEGR DOC SCR





## COMFORT PAYS



### **RIDE CONTROL™**

Who likes dropping or spilling materials? No one. That's why CASE's innovative Ride Control™ feature is such a benefit. Just push a button to automatically steady the loader arm when traveling at elevated speeds and the machine automatically compensates with greater shock absorption and reduced loader arm bounce, so you can work faster than ever without spilling your load.



#### **MORE SPACE, MORE COMFORT**

A comfortable operator is a productive and happy operator. At nearly three feet wide, CASE loaders offer the largest ROPS/FOPS-certified cab in the industry. It's fully sealed and pressurized to reduce noise, dust and fumes—and comes with an optional radio and upgraded climate control system.

#### **GREASELESS BUCKET TILT CYLINDER**

Thanks to greaseless, self-contained bucket tilt cylinders, gone are the days of grease-smearred clothing when getting in or out of the cab. Exclusive to CASE, the aggressive mounting style improves breakout force and provides twice the life of previous methods—and best of all, you never have to touch it again.

#### **LOWER LOADER STOPS FOR GREATER GRADING**

The load belongs on the chassis. A CASE innovation, all CASE loaders offer a low loader frame support to help properly transfer the load to where it belongs—the chassis. Plus, interchangeable spacer “pucks” allow for arm-height adjustment to accommodate various tire diameters and attachment height requirements.

#### **ENHANCED-VISIBILITY SIDE LIGHTING**

Easily see what's to the left, what's to the right, what's behind you, and what's straight ahead. That's safe operation. And thanks to our enhanced-visibility side lighting, operators can maneuver quicker and more confidently at any time—day or night.

#### **POWERSTANCE FOR STEADY STRENGTH**

A wheelbase that's up to 21% longer gives you stability you can feel. The improved weight distribution enables you to lift larger loads and reduces control jerking, back jolting and load-spilling bounce when hauling. Clear curbs easier, retain more material and experience a faster, more comfortable ride.

#### **QUICK, TOOL-FREE SWITCHING**

Switch loader attachments without the added hassle of getting out of your cab. CASE's Connect Under Pressure (CUP) manifolds facilitate fast, easy and tool-free connecting and disconnecting of hydraulic lines by releasing pressure into the standard case drain.

## **MATCH THE LIFT TO THE TASK**

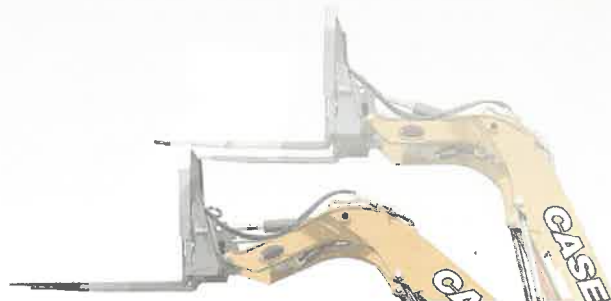
The entire series includes both radial-lift and vertical-lift models. Which is better? It all depends on your application. That's why CASE offers both lift patterns in various sizes to make sure you have the right machine for the job.

### **VERTICAL LIFT**



Vertical-lift machines are engineered for lift-and-carry and truck-loading jobs. The geometry of the dual arm allows the load to rise directly up, providing maximum reach at full height. Vertical-lift machines are ideal for reaching over the side of and into the middle of high-side trucks.

### **RADIAL LIFT**



Radial-lift machines are engineered for digging, prying and pushing. The angle of the arm ties directly into the chassis for superior strength when



**RESIDENTIAL**

Got a tight space to navigate? Our superior EZ-EH Controls make maneuvering those tight spaces a breeze. Plus, left, right, forward or even behind, our best-in-class visibility gives operators all-around better lines of sight making the job more productive and safer.





### **SNOW REMOVAL**

Our fully-sealed, pressurized cab is the largest ROPS/FOPS-certified one in the industry.

And with our improved climate control system, operators are now more comfortable than ever on the job regardless of the conditions outside.



## MAXIMIZE YOUR BUSINESS OUTPUT

CASE loaders are compatible with more than 250 buckets, forks, brooms, augers, rakes, grapples, hydraulic hammers, snow accessories, bale spears and other CASE attachments, including CASE compact track loader and compact wheel loader attachments. CASE also has partnerships with numerous attachment manufacturers to give your business even greater versatility—meaning you can do more with a single machine than you ever thought possible. Consult your dealer for details.



Low-Profile Bucket



Dirt and Foundry Bucket



Side Discharge Bucket



4-in-1 Bucket



Concrete Claw



Scrap Grapple



Root Rake



Rotary Cutter



Pickup Broom



Cold Planer



Rock Saw



Auger



Trencher



Vibratory Roller



Dozer Blade



Pallet Forks



Bale Handler

### AUXILIARY HYDRAULIC PACKAGES AVAILABLE



Standard



High-Flow



Enhanced High-Flow



Secondary Auxiliary



Front Electric/  
Multi-Function



## MAINTENANCE MADE EASY

### **NO TOOLS NECESSARY**

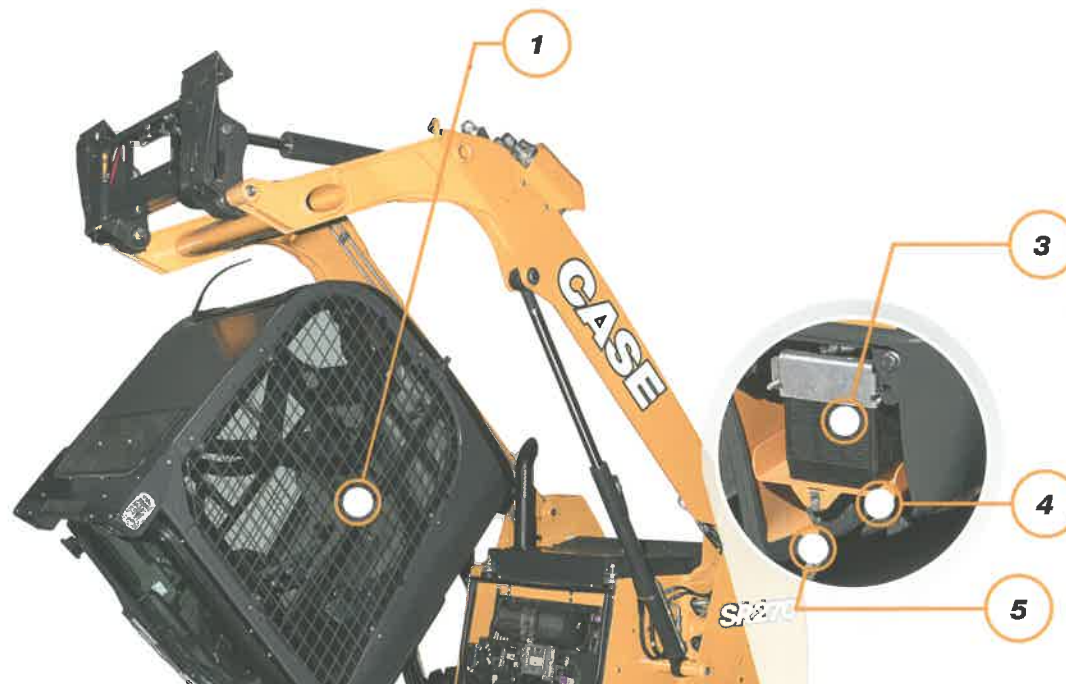
CASE loaders continue the hallmark of simple serviceability with features like tool-free access to the oil cooler, radiator and other routine maintenance points.

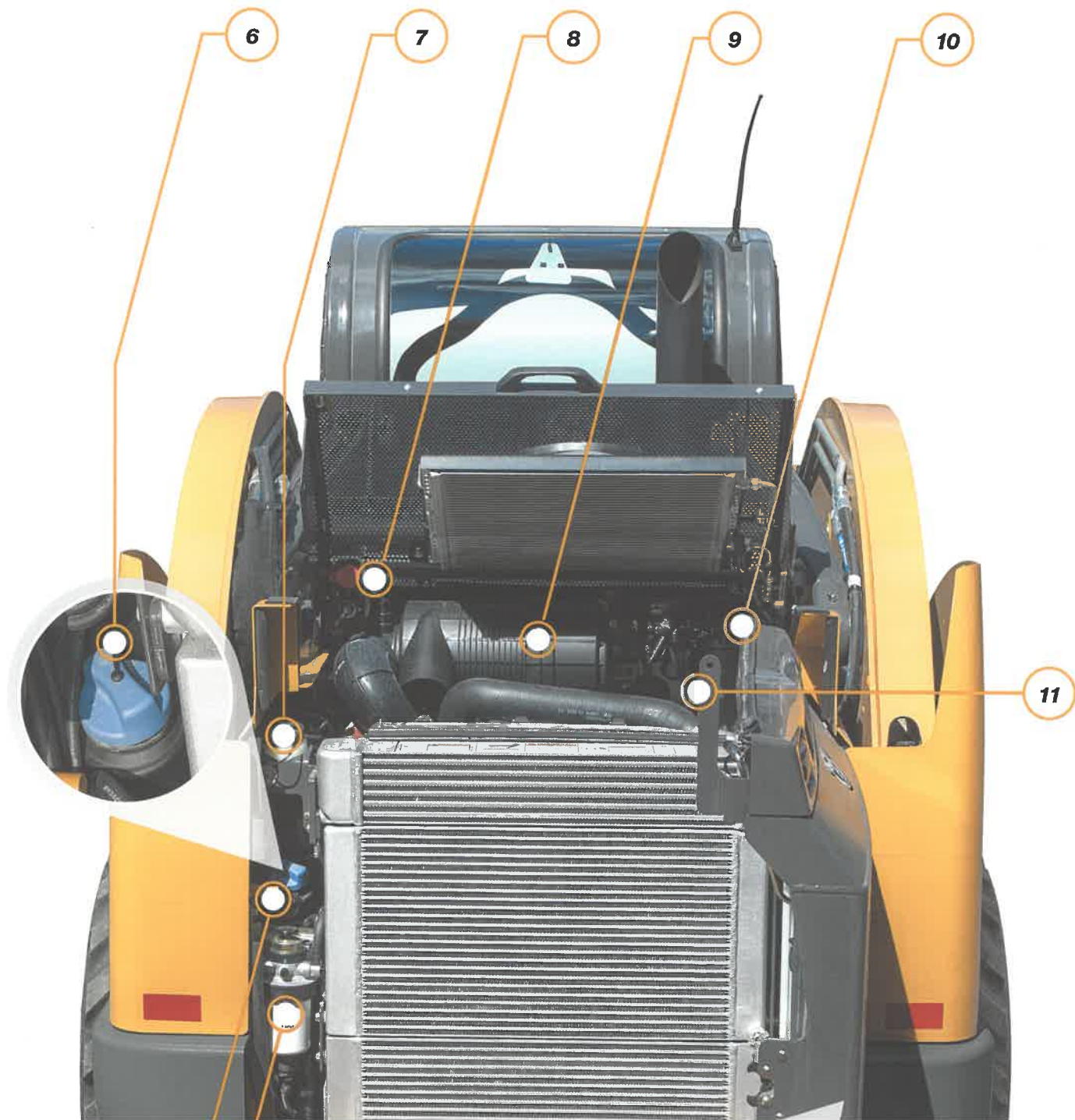
### **LOW MAINTENANCE**

Maintenance is a breeze. Regular maintenance points are grouped into a single area, under the engine compartment cover and door. With swing-out doors, a single, easily-removable side panel and the removal of two nuts, the entire cab swings forward, out of the way, to open up the entire drivetrain compartment for easy repair and inspection.

#### **Easy access to everything**

- 1 Easy-tilt cab access to powertrain
- 2 Hydraulic pressure release valve
- 3 Battery
- 4 Engine oil filter
- 5 Remote oil drain
- 6 DEF tank\*
- 7 Hydraulic fill
- 8 Master disconnect switch
- 9 Air filter
- 10 Hydraulic filter





## **SUPPORT COMES STANDARD**

### **BASE & EXTENDED WARRANTY COVERAGE:**

#### **1-YEAR/UNLIMITED-HOUR FULL-COVERAGE BASE LIMITED WARRANTY**

#### **2-YEAR/2,000-HOUR EXTENDED ENGINE WARRANTY**

Discuss the extended engine warranty coverage details with your dealer.

#### **UPTIME SOLUTIONS**

Your CASE dealer can provide solutions to meet all your needs and keep you productive.



#### **STRONGER PRODUCT SUPPORT SOLUTIONS**

Your CASE dealer knows best how you can maximize your equipment investment and uptime—with genuine CASE parts, expert service and a complete range of product support solutions including CASE remanufactured and all-makes parts. CASE supports better parts availability and faster deliveries through nine parts distribution centers in North America and a forecasting system to ensure that the right parts will be there when you need them. And only CASE dealers have exclusive access to the Electronic Service Tool (EST) that quickly pinpoints machine issues. Just ask your dealer for details.



#### **FLEXIBLE FINANCIAL OPTIONS**

Specialized finance programs and flexible leasing packages put you in the driver's seat of industry-leading CASE equipment while no-  
residual warranties and comprehensive protection plans ensure that





# STANDARD AND OPTIONAL FEATURES

Standard ● Optional ○ Not Applicable —

OPERATOR ENVIRONMENT	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
Open Cab (No Heat or HVAC)	●	●	●	●	●	○	○	○	○
Open Cab Interior Trim Package	○	○	○	○	○	○	○	○	○
Enclosed Cab with Heater	○	○	○	○	○	○	○	○	○
Enclosed Cab with Heater and AC	—	—	○	○	○	●	●	●	●
Enclosed Cab with Heat, Demolition Door	○	○	○	○	○	○	○	○	○
Enclosed Cab with HVAC, Demolition Door	—	—	○	○	○	○	○	○	○
Non-Suspension Seat	○	○	○	○	○	○	○	○	○
Suspension Seat, Vinyl	●	●	●	●	●	○	○	○	○
Air Ride Suspension Seat	○	○	○	○	○	●	●	●	●
Three-Point Seat Belt, 2 in	●	●	●	●	●	●	●	●	●
Three-Point Seat Belt, 3 in	○	○	○	○	○	○	○	○	○
One-Speed Controls	●	●	○	○	○	○	—	—	—
Two-Speed Controls	—	—	●	●	●	●	●	●	●
Hand Controls	●	●	●	●	●	●	●	●	●
Hand and Foot Controls	○	○	○	○	○	○	○	○	○
EZ-EH Controls	○	○	○	○	○	○	○	○	○
CASE SiteWatch™ Telematics	○	○	○	○	○	○	○	○	○
FOPS Level-2 Modification	○	○	○	○	○	○	○	○	○
Interior Mirror	○	○	○	○	○	○	○	○	○
HYDRAULICS	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
Standard Auxiliary Hydraulics	●	●	●	●	●	●	●	●	●
High-Flow Auxiliary Hydraulics	—	—	○	○	○	○	○	○	○
Enhanced High-Flow Auxiliary Hydraulics	—	—	—	—	—	—	○	—	○
Secondary Auxiliary Hydraulics	—	—	○	○	○	○	○	○	○
Manual Coupler	●	●	●	●	●	○	○	○	○
Hydraulic Coupler	○	○	○	○	○	—	—	—	—



## SPECIFICATIONS AND DIMENSIONS

SPECIFICATIONS	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
<b>Lift Configuration</b>	Radial	Radial	Radial	Vertical	Radial	Radial	Radial	Vertical	Vertical
<b>Engine</b>	ISM N844L-F	ISM N844LT-F	ISM N844LTA-DI-F-50	ISM N844LTA-DI-F-45	FPT F5H FL463 A*F001	FPT F5H FL463 A*F001	FPT F5B FL413 E*B002	FPT F5H FL463 A*F001	FPT F5B FL413 E*B002
<b>Gross Horsepower—hp (kW)</b>	48.8 (36.4)	60 (44.7)	67 (50)	60 (44.7)	74 (55)	74 (55)	90 (67)	74 (55)	90 (67)
<b>Net Horsepower—hp (kW)</b>	45.8 (34.1)	57 (42.2)	64 (47.7)	57 (42.4)	68 (51)	68 (51)	84 (63)	68 (51)	84 (63)
<b>Peak Torque—lb ft (Nm)</b>	105.5 (143)	139 (188)	153 (208)	153 (208)	232 (314)	232 (314)	282 (383)	232 (314)	282 (383)
<b>Displacement/Cylinders—in<sup>3</sup> (L)</b>	135.2 (2.2)/4	135.2 (2.2)/4	135.2 (2.2)/4	135.2 (2.2)/4	207.0 (3.4)/4	207.0 (3.4)/4	207.0 (3.4)/4	207.0 (3.4)/4	207.0 (3.4)/4
<b>Emissions Certification<sup>*</sup> Solutions</b>	Tier 4 Final (DOC, DPF)	Tier 4 Final (CEGR, DOC, DPF)	Tier 4 Final (CEGR, DOC)	Tier 4 Final (CEGR, DOC)	Tier 4 Final (CEGR, DOC, PM Catalyst)	Tier 4 Final (CEGR, DOC, PM Catalyst)	Tier 4 Final (CEGR, DOC, SCR)	Tier 4 Final (CEGR, DOC, PM Catalyst)	Tier 4 Final (SCR)
<b>Rated Operating Capacity (ROC) 50%—lb (kg)</b>	1,300 (590)	1,600 (726)	1,750 (790)	1,850 (840)	2,100 (953)	2,400 (1 088)	2,700 (1 225)	2,800 (1 270)	3,400 (1 545)
<b>Tippling Load—lb (kg)</b>	2,600 (1 179)	3,200 (1 455)	3,500 (1 588)	3,700 (1 678)	4,200 (1 905)	4,800 (2 177)	5,400 (2 450)	5,600 (2 540)	6,800 (3 090)
<b>Bucket Cylinder Breakout Force—lb (kN)</b>	4,180 (18.6)	5,270 (24.3)	7,270 (32.3)	5,550 (24.7)	7,270 (32.3)	8,680 (38.6)	8,677 (38.6)	8,776 (39.0)	9,531 (42.4)
<b>Standard Auxiliary Hydraulics—gpm (L/min)</b>	17.5 (66.2)	18.4 (69.7)	20.6 (78.0)	20.6 (78.0)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)
<b>High-Flow Auxiliary Hydraulics—gpm (L/min)</b>	—	—	30.7 (116.2)	30.7 (116.2)	33.2 (125.7)	37.6 (142.5)	37.6 (142.5)	37.6 (142.5)	38.7 (146.5)
<b>Operating Weight—lb (kg)</b>	5,070 (2 300)	5,510 (2 505)	6,270 (2 842)	6,570 (2 980)	6,970 (3 160)	7,400 (3 350)	8,117 (3 681)	8,090 (3 670)	9,100 (4 136)

DIMENSIONS	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
<b>Height to Bucket Hinge Pin</b>	112.0 in (2.85 m)	112.0 in (2.85 m)	122.0 in (3.10 m)	120.0 in (3.05 m)	123.0 in (3.12 m)	125.1 in (3.18 m)	125.1 in (3.18 m)	130.0 in (3.30 m)	130.0 in (3.30 m)
<b>Dump Height with Low-Profile Bucket<sup>**</sup></b>	84.8 in (2.15 m)	84.8 in (2.15 m)	94.6 in (2.4 m)	90.7 in (2.31 m)	95.6 in (2.43 m)	98.3 in (2.50 m)	98.3 in (2.50 m)	100.6 in (2.56 m)	100.6 in (2.56 m)
<b>Height to Top of ROPS</b>	75.5 in (1.92 m)	75.5 in (1.92 m)	77.7 in (1.97 m)	77.7 in (1.97 m)	78.7 in (1.99 m)	78.8 in (2.00 m)	78.8 in (2.00 m)	78.8 in (2.00 m)	78.8 in (2.00 m)
<b>Overall Length with Low-Profile Bucket</b>	125 in (3.18 m)	125 in (3.18 m)	134.3 in (3.41 m)	135.8 in (3.45 m)	133.7 in (3.40 m)	146.2 in (3.71 m)	147.5 in (3.75 m)	146 in (3.70 m)	148 in (3.76 m)
<b>Over-the-Tire Width with Spec. Tires</b>	59.8 in (1.52 m)	59.8 in (1.52 m)	64.6 in (1.64 m)	64.6 in (1.64 m)	69.1 in (1.76 m)	69.6 in (1.77 m)	69.6 in (1.77 m)	69.6 in (1.77 m)	69.6 in (1.77 m)







## **BUILDING A STRONG CASE**

Since 1842, we at CASE Construction Equipment have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity. We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development. This focus has led to numerous innovations like Ride Control™, EZ-EH controls, blade shake, PowerLift™, over-center boom design and the peace of mind that only CASE ProCare provides.

Every CASE machine is backed by more than 350 North American dealer locations, thousands of OEM, remanufactured and Gold Value™ parts, and flexible financing and insurance options that provide the kind of reliable, steadfast support you expect from a professional partner.

We are passionate about improving the lives of others, whether investing in our veterans or raising awareness about local infrastructure initiatives through Dire States. Our goal is to build both stronger machines — and stronger communities.

At the end of the day, we do what's right by our customers and our communities so that they can count on CASE.

**CASE**  
CONSTRUCTION

# Skid Steer Loaders

ALPHA SERIES



RADIAL

SR130  
SR160

SR175  
SR210

SR240  
SR270

VERTICAL

SV185  
SV280

SV340

**SINCE 1842**



**SR130**



**SR160**



**SR175**



**SV185**



**SR210**



**SR240**



**SR270**



**SV280**

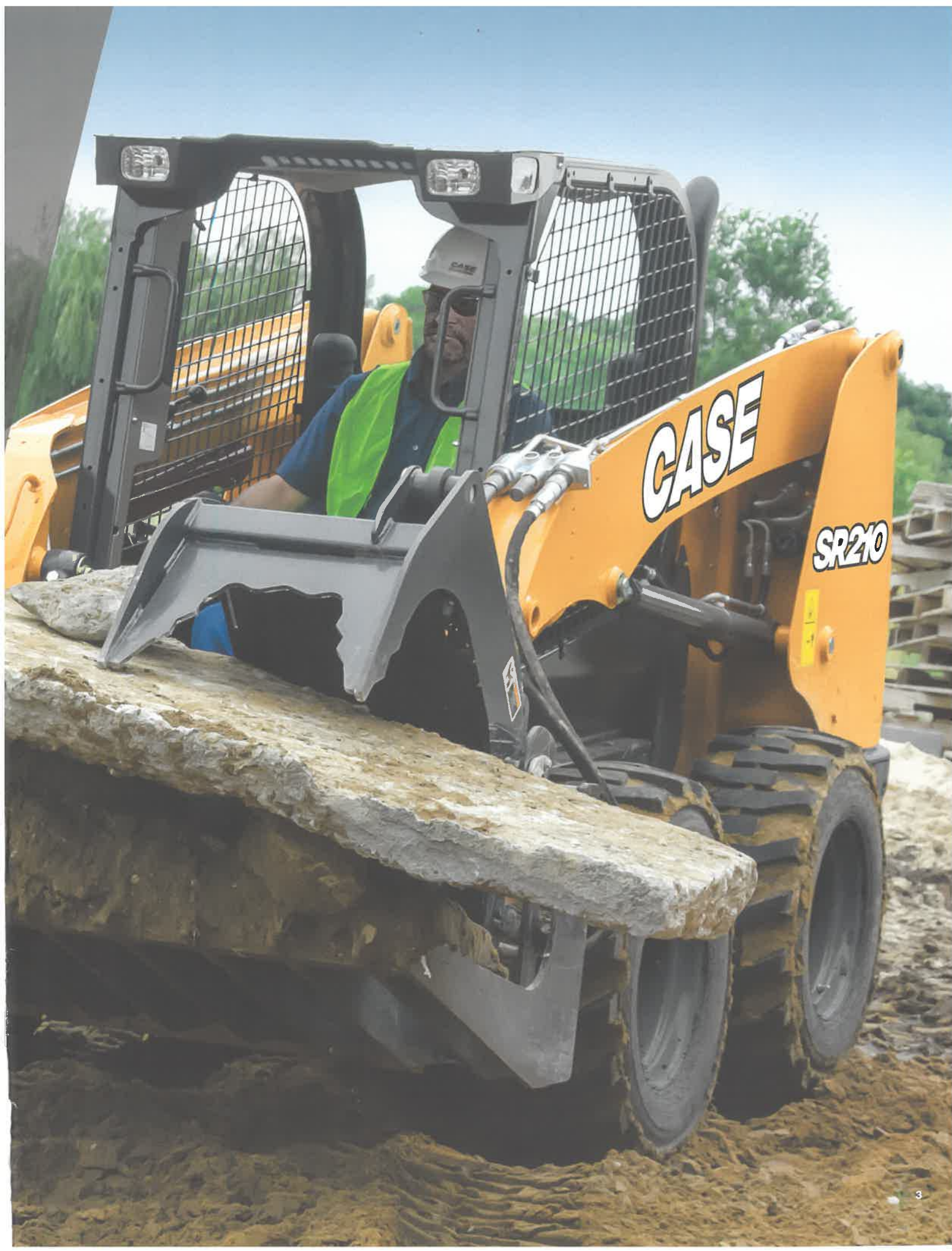


**SV340**

# *Digging, loading, pushing or grading.*

CASE Alpha Series loaders are designed to work.

- + Performance designed for maximum breakout force
- + Optimized hydraulic horsepower
- + Best-in-class visibility
- + Push button ride control™
- + Speed and controls customization with EZ-EH controls
- + Maintenance-free Tier 4 Final Solutions
- + Largest cab for operator comfort



## YOU BE THE JUDGE

### **TORQUE**

Need to run your loader longer, stronger, and more profitably? No problem with CASE's heavy-duty rotation force—get up to 282 lb.-ft. (383 N-m) at 1,400 RPM—more power than ever before.

### **BREAKOUT FORCE**

What contractor doesn't enjoy breaking into massive piles and lifting them effortlessly with more than 8,700 lbs. (38.7 kN) of breakout force? CASE makes it easy.

### **AUXILIARY HYDRAULIC PACKAGES**

Like a little extra power with your SSL? With CASE, you can put up to 4,000 psi at your disposal to run bigger attachments longer. The Alpha Series offers three different auxiliary hydraulic packages: standard, high-flow and enhanced high-flow. It also offers secondary auxiliary hydraulics for applications requiring multiple hydraulic movements simultaneously.



**CASE**  
CONSTRUCTION

# Skid Steer Loaders

ALPHA SERIES





**SR130**



**SR160**



**SR175**



**SV185**



**SR210**



**SR240**



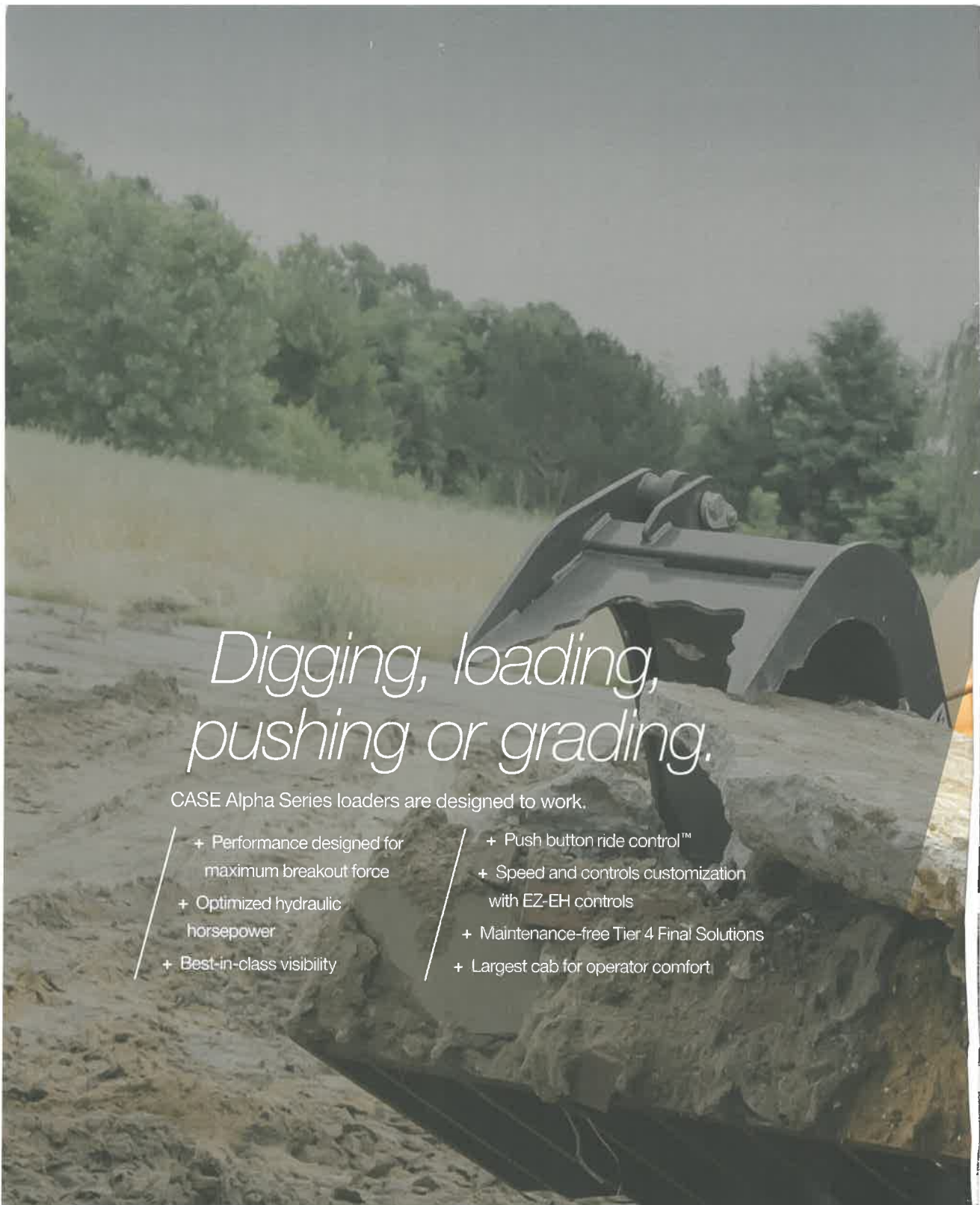
**SR270**



# *Digging, loading, pushing or grading.*

CASE Alpha Series loaders are designed to work.

- + Performance designed for maximum breakout force
- + Optimized hydraulic horsepower
- + Best-in-class visibility
- + Push button ride control™
- + Speed and controls customization with EZ-EH controls
- + Maintenance-free Tier 4 Final Solutions
- + Largest cab for operator comfort







## YOU BE THE JUDGE

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**BEST-IN-CLASS VISIBILITY**

Easily see what's all around you with industry-leading visibility and standard side lighting. And thanks to our industry-exclusive standard side lighting, operators can maneuver quicker and more confidently at any time—that's safe operation.



## TIER 4 DONE RIGHT, MADE EASY

One solution does not fit all. CASE carefully considered each machine's application, life expectancy, maintenance needs and operators. That's why every CASE skid steer loader features a proven Tier 4 Final solution that is tailored for that model. The result? Compliance without compromise or complexity. CASE Tier 4-certified equipment is easier to maintain and, unlike competitive models, won't require you to master additional maintenance procedures. In fact, most CASE machines have maintenance-free emission solutions, so you can stay focused on your work — and not maintaining your machine.

### CASE Tier 4 Final Solutions in Simple Language

#### CEGR

**What it means:** Cooled Exhaust Gas Recirculation. For Tier 4 Final, it works with a combination of the after-treatment technologies listed below.

**What it means to you:** As an in-engine system, CEGR requires no operator maintenance or management. CEGR is included in all CASE skid steer loader models (excluding SR130).

#### DOC

**What it means:** Diesel Oxidation Catalyst. The DOC oxidizes the machine's exhaust to create heat and manage emissions.

**What it means to you:** DOC is a maintenance-free solution — no fluids to add and no filter to replace.

#### DPF

**What it means:** Diesel Particulate Filter. The DPF captures particulate matter and burns off the captured particulate matter through a combustion process known as "regeneration." This solution is less expensive for the manufacturer, keeping the unit price down. CASE chose this solution only in its smaller, price-sensitive units. This solution

#### PM Catalyst

**What it means:** Particulate Matter Catalyst. This is made up of a DOC and a high-efficiency flow-through filter. The DOC oxidizes the machine's exhaust to create heat and manage emissions. The remaining particulate matter then passes through to the filter where it is slowed and burned.

**What it means to you:** PM Catalyst is a maintenance-free solution — no fluids to add and no filter to replace.

#### SCR

**What it means:** Selective Catalytic Reduction. It's a simple after-treatment solution that combines DEF (Diesel Exhaust Fluid) with exhaust to convert emissions into nitrogen and water. DEF, also commonly referred to as urea, is a non-toxic liquid that reacts with engine exhaust in the presence of a catalyst to perform the emissions conversion.

**What it means to you:** Because SCR is an after-treatment system, it lowers exhaust temperatures and does not require unproductive fuel use associated with burning off particulate matter — great for larger engines. This offers a significant reduction in fuel use and has no DPF to replace. Keeping it running is simple.



*We made it simple.  
The right solution  
for the right machine  
for the task.*

	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
<b>Gross HP</b>	49	60	67	60	74	74	90	74	90
<b>Maintenance Free</b>			✓	✓	✓	✓		✓	
<b>Minimal DEF Required</b>							✓		✓
<b>No DPF Filter to Replace</b>			✓	✓	✓	✓	✓	✓	✓
<b>Increased Fuel Efficiency</b>			✓	✓	✓	✓	✓	✓	✓
<b>Tier 4 Final Solution</b>	DOC DPF	CEGR DOC DPF	CEGR DOC	CEGR DOC	CEGR PM Catalyst	CEGR PM Catalyst	CEGR DOC SCR	CEGR PM Catalyst	CEGR DOC SCR



## COMFORT PAYS



### **RIDE CONTROL™**

Who likes dropping or spilling materials? No one. That's why CASE's innovative Ride Control™ feature is such a benefit. Just push a button to automatically steady the loader arm when traveling at elevated speeds and the machine automatically compensates with greater shock absorption and reduced loader arm bounce, so you can work faster than ever without spilling your load.



**MORE SPACE, MORE COMFORT**

A comfortable operator is a productive and happy operator. At nearly three feet wide, CASE loaders offer the largest ROPS/FOPS-certified cab in the industry. It's fully sealed and pressurized to reduce noise, dust and fumes—and comes with an optional radio and upgraded climate control system.

**GREASELESS BUCKET TILT CYLINDER**

Thanks to greaseless, self-contained bucket tilt cylinders, gone are the days of grease-smearing clothing when getting in or out of the cab. Exclusive to CASE, the aggressive mounting style improves breakout force and provides twice the life of previous methods—and best of all, you never have to touch it again.

**LOWER LOADER STOPS FOR GREATER GRADING**

The load belongs on the chassis. A CASE innovation, all CASE loaders offer a low loader frame support to help properly transfer the load to where it belongs—the chassis. Plus, interchangeable spacer “pucks” allow for arm-height adjustment to accommodate various tire diameters and attachment height requirements.

**ENHANCED-VISIBILITY SIDE LIGHTING**

Easily see what's to the left, what's to the right, what's behind you, and what's straight ahead. That's safe operation. And thanks to our enhanced-visibility side lighting, operators can maneuver quicker and more confidently at any time—day or night.

**POWERSTANCE FOR STEADY STRENGTH**

A wheelbase that's up to 21% longer gives you stability you can feel. The improved weight distribution enables you to lift larger loads and reduces control jerking, back jolting and load-spilling bounce when hauling. Clear curbs easier, retain more material and experience a faster, more comfortable ride.

**QUICK, TOOL-FREE SWITCHING**

Switch loader attachments without the added hassle of getting out of your cab. CASE's Connect Under Pressure (CUP) manifolds facilitate fast, easy and tool-free connecting and disconnecting of hydraulic lines by releasing pressure into the standard case drain.

## **MATCH THE LIFT TO THE TASK**

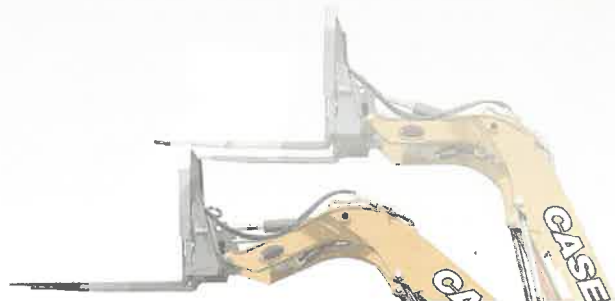
The entire series includes both radial-lift and vertical-lift models. Which is better? It all depends on your application. That's why CASE offers both lift patterns in various sizes to make sure you have the right machine for the job.

### **VERTICAL LIFT**



Vertical-lift machines are engineered for lift-and-carry and truck-loading jobs. The geometry of the dual arm allows the load to rise directly up, providing maximum reach at full height. Vertical-lift machines are ideal for reaching over the side of and into the middle of high-side trucks.

### **RADIAL LIFT**



Radial-lift machines are engineered for digging, prying and pushing. The angle of the arm ties directly into the chassis for superior strength when





**RESIDENTIAL**

Got a tight space to navigate? Our superior EZ-EH Controls make maneuvering those tight spaces a breeze. Plus, left, right, forward or even behind, our best-in-class visibility gives operators all-around better lines of sight making the job more productive and safer.





### **SNOW REMOVAL**

Our fully-sealed, pressurized cab is the largest ROPS/FOPS-certified one in the industry.

And with our improved climate control system, operators are now more comfortable than ever on the job regardless of the conditions outside.



## MAXIMIZE YOUR BUSINESS OUTPUT

CASE loaders are compatible with more than 250 buckets, forks, brooms, augers, rakes, grapples, hydraulic hammers, snow accessories, bale spears and other CASE attachments, including CASE compact track loader and compact wheel loader attachments. CASE also has partnerships with numerous attachment manufacturers to give your business even greater versatility—meaning you can do more with a single machine than you ever thought possible. Consult your dealer for details.



Low-Profile Bucket



Dirt and Foundry Bucket



Side Discharge Bucket



4-in-1 Bucket



Concrete Claw



Scrap Grapple



Root Rake



Rotary Cutter



Pickup Broom



Cold Planer



Rock Saw



Auger



Trencher



Vibratory Roller



Dozer Blade



Pallet Forks



Bale Handler

### AUXILIARY HYDRAULIC PACKAGES AVAILABLE



Standard



High-Flow



Enhanced High-Flow



Secondary Auxiliary



Front Electric/  
Multi-Function

## MAINTENANCE MADE EASY

### **NO TOOLS NECESSARY**

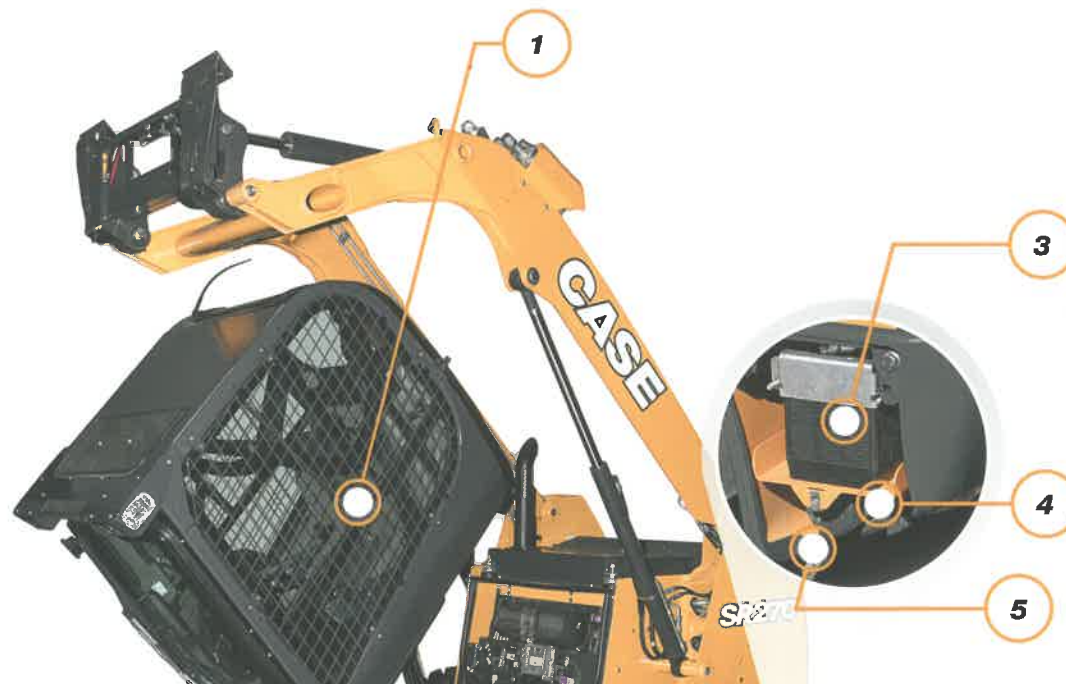
CASE loaders continue the hallmark of simple serviceability with features like tool-free access to the oil cooler, radiator and other routine maintenance points.

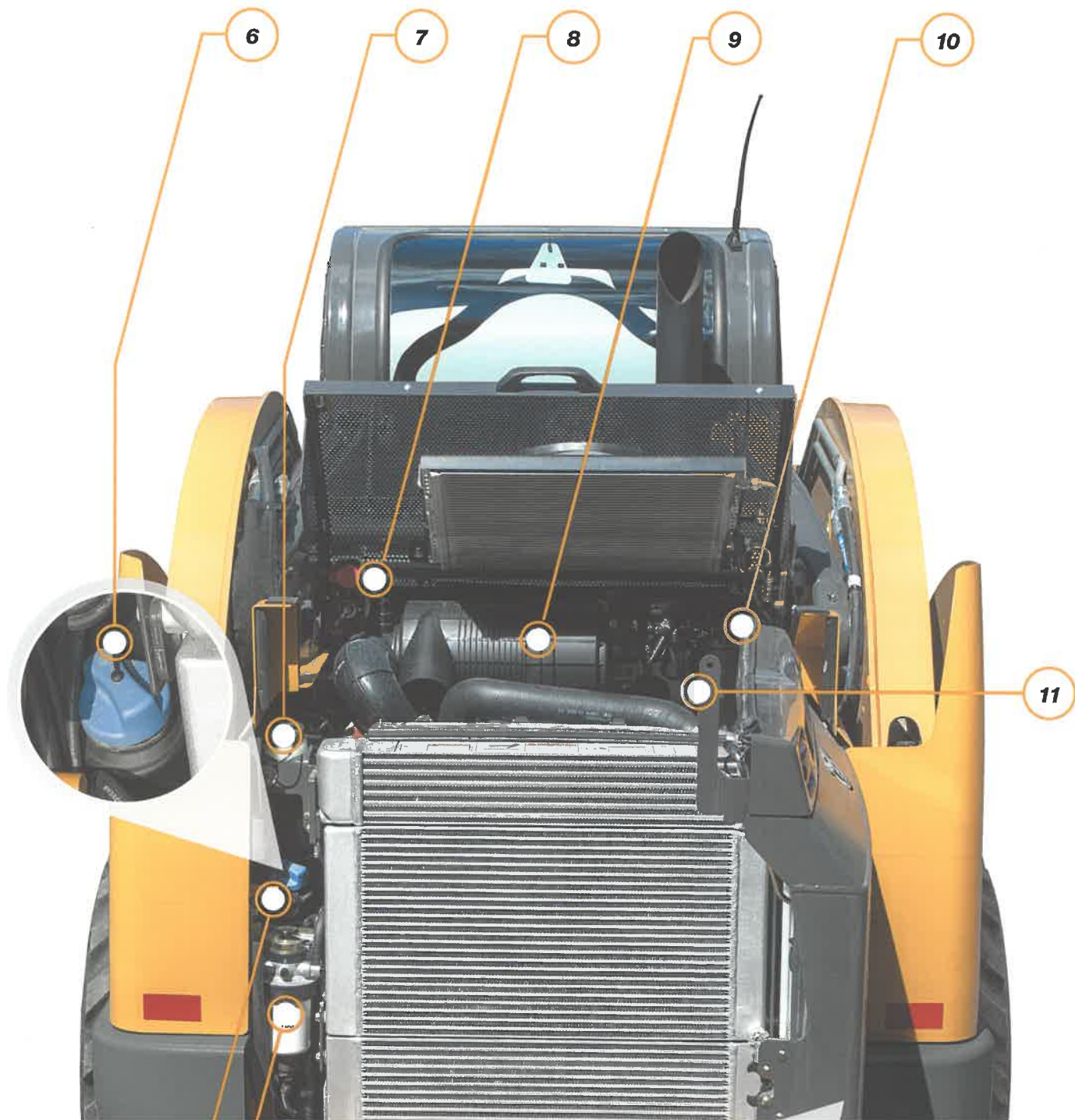
### **LOW MAINTENANCE**

Maintenance is a breeze. Regular maintenance points are grouped into a single area, under the engine compartment cover and door. With swing-out doors, a single, easily-removable side panel and the removal of two nuts, the entire cab swings forward, out of the way, to open up the entire drivetrain compartment for easy repair and inspection.

#### **Easy access to everything**

- 1 Easy-tilt cab access to powertrain
- 2 Hydraulic pressure release valve
- 3 Battery
- 4 Engine oil filter
- 5 Remote oil drain
- 6 DEF tank\*
- 7 Hydraulic fill
- 8 Master disconnect switch
- 9 Air filter
- 10 Hydraulic filter





## **SUPPORT COMES STANDARD**

### **BASE & EXTENDED WARRANTY COVERAGE:**

#### **1-YEAR/UNLIMITED-HOUR FULL-COVERAGE BASE LIMITED WARRANTY**

#### **2-YEAR/2,000-HOUR EXTENDED ENGINE WARRANTY**

Discuss the extended engine warranty coverage details with your dealer.

#### **UPTIME SOLUTIONS**

Your CASE dealer can provide solutions to meet all your needs and keep you productive.



#### **STRONGER PRODUCT SUPPORT SOLUTIONS**

Your CASE dealer knows best how you can maximize your equipment investment and uptime—with genuine CASE parts, expert service and a complete range of product support solutions including CASE remanufactured and all-makes parts. CASE supports better parts availability and faster deliveries through nine parts distribution centers in North America and a forecasting system to ensure that the right parts will be there when you need them. And only CASE dealers have exclusive access to the Electronic Service Tool (EST) that quickly pinpoints machine issues. Just ask your dealer for details.



#### **FLEXIBLE FINANCIAL OPTIONS**

Specialized finance programs and flexible leasing packages put you in the driver's seat of industry-leading CASE equipment while no-  
residence warranties and comprehensive protection plans ensure that







# STANDARD AND OPTIONAL FEATURES

Standard  Optional  Not Applicable

OPERATOR ENVIRONMENT	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
Open Cab (No Heat or HVAC)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Open Cab Interior Trim Package	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enclosed Cab with Heater	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enclosed Cab with Heater and AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Enclosed Cab with Heat, Demolition Door	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enclosed Cab with HVAC, Demolition Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Non-Suspension Seat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suspension Seat, Vinyl	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air Ride Suspension Seat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Three-Point Seat Belt, 2 in	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Three-Point Seat Belt, 3 in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
One-Speed Controls	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Two-Speed Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Hand Controls	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Hand and Foot Controls	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EZ-EH Controls	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CASE SiteWatch™ Telematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FOPS Level-2 Modification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interior Mirror	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HYDRAULICS	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
Standard Auxiliary Hydraulics	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
High-Flow Auxiliary Hydraulics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enhanced High-Flow Auxiliary Hydraulics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>
Secondary Auxiliary Hydraulics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual Coupler	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydraulic Coupler	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## SPECIFICATIONS AND DIMENSIONS

SPECIFICATIONS	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
<b>Lift Configuration</b>	Radial	Radial	Radial	Vertical	Radial	Radial	Radial	Vertical	Vertical
<b>Engine</b>	ISM N844L-F	ISM N844LT-F	ISM N844LTA- DI-F-50	ISM N844LTA- DI-F-45	FPT F5H FL463 A*F001	FPT F5H FL463 A*F001	FPT F5B FL413 E*B002	FPT F5H FL463 A*F001	FPT F5B FL413 E*B002
<b>Gross Horsepower—hp (kW)</b>	48.8 (36.4)	60 (44.7)	67 (50)	60 (44.7)	74 (55)	74 (55)	90 (67)	74 (55)	90 (67)
<b>Net Horsepower—hp (kW)</b>	45.8 (34.1)	57 (42.2)	64 (47.7)	57 (42.4)	68 (51)	68 (51)	84 (63)	68 (51)	84 (63)
<b>Peak Torque—lb ft (Nm)</b>	105.5 (143)	139 (188)	153 (208)	153 (208)	232 (314)	232 (314)	282 (383)	232 (314)	282 (383)
<b>Displacement/Cylinders—in<sup>3</sup> (L)</b>	135.2 (2.2)/4	135.2 (2.2)/4	135.2 (2.2)/4	135.2 (2.2)/4	207.0 (3.4)/4	207.0 (3.4)/4	207.0 (3.4)/4	207.0 (3.4)/4	207.0 (3.4)/4
<b>Emissions Certification<sup>*</sup> Solutions</b>	Tier 4 Final (DOC, DPF)	Tier 4 Final (CEGR, DOC, DPF)	Tier 4 Final (CEGR, DOC)	Tier 4 Final (CEGR, DOC)	Tier 4 Final (CEGR, DOC, PM Catalyst)	Tier 4 Final (CEGR, DOC, PM Catalyst)	Tier 4 Final (CEGR, DOC, SCR)	Tier 4 Final (CEGR, DOC, PM Catalyst)	Tier 4 Final (SCR)
<b>Rated Operating Capacity (ROC) 50%—lb (kg)</b>	1,300 (590)	1,600 (726)	1,750 (790)	1,850 (840)	2,100 (953)	2,400 (1 088)	2,700 (1 225)	2,800 (1 270)	3,400 (1 545)
<b>Tippling Load—lb (kg)</b>	2,600 (1 179)	3,200 (1 455)	3,500 (1 588)	3,700 (1 678)	4,200 (1 905)	4,800 (2 177)	5,400 (2 450)	5,600 (2 540)	6,800 (3 090)
<b>Bucket Cylinder Breakout Force—lb (kN)</b>	4,180 (18.6)	5,270 (24.3)	7,270 (32.3)	5,550 (24.7)	7,270 (32.3)	8,680 (38.6)	8,677 (38.6)	8,776 (39.0)	9,531 (42.4)
<b>Standard Auxiliary Hydraulics—gpm (L/min)</b>	17.5 (66.2)	18.4 (69.7)	20.6 (78.0)	20.6 (78.0)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)	24.2 (91.5)
<b>High-Flow Auxiliary Hydraulics—gpm (L/min)</b>	—	—	30.7 (116.2)	30.7 (116.2)	33.2 (125.7)	37.6 (142.5)	37.6 (142.5)	37.6 (142.5)	38.7 (146.5)
<b>Operating Weight—lb (kg)</b>	5,070 (2 300)	5,510 (2 505)	6,270 (2 842)	6,570 (2 980)	6,970 (3 160)	7,400 (3 350)	8,117 (3 681)	8,090 (3 670)	9,100 (4 136)

DIMENSIONS	SR130	SR160	SR175	SV185	SR210	SR240	SR270	SV280	SV340
<b>Height to Bucket Hinge Pin</b>	112.0 in (2.85 m)	112.0 in (2.85 m)	122.0 in (3.10 m)	120.0 in (3.05 m)	123.0 in (3.12 m)	125.1 in (3.18 m)	125.1 in (3.18 m)	130.0 in (3.30 m)	130.0 in (3.30 m)
<b>Dump Height with Low-Profile Bucket**</b>	84.8 in (2.15 m)	84.8 in (2.15 m)	94.6 in (2.4 m)	90.7 in (2.31 m)	95.6 in (2.43 m)	98.3 in (2.50 m)	98.3 in (2.50 m)	100.6 in (2.56 m)	100.6 in (2.56 m)
<b>Height to Top of ROPS</b>	75.5 in (1.92 m)	75.5 in (1.92 m)	77.7 in (1.97 m)	77.7 in (1.97 m)	78.7 in (1.99 m)	78.8 in (2.00 m)	78.8 in (2.00 m)	78.8 in (2.00 m)	78.8 in (2.00 m)
<b>Overall Length with Low-Profile Bucket</b>	125 in (3.18 m)	125 in (3.18 m)	134.3 in (3.41 m)	135.8 in (3.45 m)	133.7 in (3.40 m)	146.2 in (3.71 m)	147.5 in (3.75 m)	146 in (3.70 m)	148 in (3.76 m)
<b>Over-the-Tire Width with Spec. Tires</b>	59.8 in (1.52 m)	59.8 in (1.52 m)	64.6 in (1.64 m)	64.6 in (1.64 m)	69.1 in (1.76 m)	69.6 in (1.77 m)	69.6 in (1.77 m)	69.6 in (1.77 m)	69.6 in (1.77 m)





## **BUILDING A STRONG CASE**

Since 1842, we at CASE Construction Equipment have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity. We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development. This focus has led to numerous innovations like Ride Control™, EZ-EH controls, blade shake, PowerLift™, over-center boom design and the peace of mind that only CASE ProCare provides.

Every CASE machine is backed by more than 350 North American dealer locations, thousands of OEM, remanufactured and Gold Value™ parts, and flexible financing and insurance options that provide the kind of reliable, steadfast support you expect from a professional partner.

We are passionate about improving the lives of others, whether investing in our veterans or raising awareness about local infrastructure initiatives through Dire States. Our goal is to build both stronger machines — and stronger communities.

At the end of the day, we do what's right by our customers and our communities so that they can count on CASE.



## ENGINE

Model	FPT F5BFL413C
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Engine speeds*	RPM
Rated speed – full load	2200
Low idle	900 – 1000
High idle – no load	2330 – 2430
Horsepower @ 2200 RPM:	
Gross	90 hp (67 kW)
Net w/ viscous fan**	89 hp (66 kW)
Net	83 hp (62 kW)
Maximum torque @ 1400 RPM:	
Gross	306 lb-ft (415 N-m)
Net w/ viscous fan	305 lb-ft (413 N-m)
Net	299 lb-ft (405 N-m)
Torque rise at rated speed	43% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in <sup>2</sup> (3 145 cm <sup>2</sup> )
Rows of tubes	5
39° fan:	
Style	7 blade suction
Diameter	19.65 in (499 mm)
Ratio	1.1:1
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full flow spin on

NOTE: \*Meets federal emission regulations.

\*\*Viscous fan included w/ Cab  
Convenience package.

## DRIVETRAIN

Transmission – standard:  
4F-4R Power Shuttle Synchronesh  
Transmission manual gear shift,  
fully synchronized

Transmission – optional:  
Powershift S-Type, 4F-3R fully synchronized

Specifications below apply to both Power Shuttle  
and Powershift S-Type transmission unless  
otherwise indicated.

Gear ratios	Forward/Reverse	
1st	5.603/4.643	
2nd	3.481/2.884	
3rd	1.584/1.313	
4th	0.793/0.657*	

Travel speeds	Forward/Reverse	
	mph (kph)	mph (kph)
1st	3.8 (6.1)	4.5 (7.3)
2nd	6.1 (9.8)	7.3 (11.7)
3rd	13.1 (21.1)	15.7 (25.3)
4th	24.6 (39.6)	29.4 (47.3)*

Torque converter ratio	3.2
Differential-lock	On-the-go push-button activation

Front 4WD/Rear axle:	
Differential ratio	2.0/2.5
Planetary hub ratio	6.0/6.4
Total reduction ratio	12.0/16.0

Service brakes:  
Individually applied, power assisted,  
hydraulically actuated, maintenance-free,  
self-adjusting, outboard mounted, wet disc,  
2 per side.

Total disc area	384 in <sup>2</sup> (0.25 m <sup>2</sup> )
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Parking brakes	Trans Mounted spring-applied hydraulic release – SAHR
----------------	--

NOTE: \*4R not available on Powershift S-Type.  
Travel speeds at 2293 engine  
RPM specified: w/ 19.5 L x 24.0 tires.  
Speeds decrease w/ 17.5 L x 24.0 rear tires.

## ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	160 amp
Battery	850 cold-cranking amps
Opt. batteries – 2	850 cold-cranking amps
Power plugs – 2	30 amps total

## OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy;  
Anti-vandalism cover for dash – w/ canopy only;  
Rear fenders extensions; Coat hook w/ garment  
strap; Interior rearview mirror, convex  
3.54 in (90 mm) wide x 10.83 in (275 mm) high;  
Non-suspension seat – 180° swivel – Vinyl; 2 in  
(50 mm) retractable seat belt; Cup holder/storage  
tray mounted on left-hand fender; Right-hand  
storage compartment w/ lid.

Gauges:

Engine water temperature; Converter oil  
temperature; Fuel level; Tachometer/  
hourmeter; DEF Level.

Warning lights:

Air cleaner restriction; Alternator; A/C high  
pressure; Cold start; Engine oil pressure  
low; Hydraulic oil filter bypass; Parking brake  
engagement; Low fuel; Water in fuel; Low DEF.

Audible alarms:

Coolant temperature; Engine oil pressure;  
Parking brake engagement; Shuttle  
engagement/seat position; Backup,  
Converter temperature; Low DEF.

Horn Dual switched front and rear

## OPERATING WEIGHT

### Configuration 1 – SAE Transport:

Standard dipper, 82 in (2.08 m) LL bucket,  
2WD, 19.5 L – 24 rear tires, 24 in HD backhoe  
bucket, flip over stabilizer pads, 1 Door Cab  
w/ Heat and A/C, Cloth Mechanical Suspension  
seat, Small front counter weight, S-type  
powershift transmission, no operator,  
fully fueled.

16,589 lb (7 525 kg)

### Configuration 2 – SAE Transport:

No Operator, 1 Door Cab, 4WD, AC, E-hoe,  
SPS Shift, Wobble Stick Mechanical BH  
Controls, Front Counterweight 4 Speed Manual  
Transmission, Boom Guard, Extendahoe®, 82 in  
GP Loader Bucket Galaxy 12-16.5 @ 49 psi  
Front Tires, Solideal 19.5 L – 24 @ 29 psi  
Rear Tires.

17,751 lb (8 052 kg)

### Add-on weights:

Cab-over canopy	309 lb (140 kg)
Fabricated stabilizer pads	141 lb (64 kg)
Counterweights	700 lb (318 kg)
Extendahoe®	285 lb (129 kg)
4WD w/ driveshaft guard	283 lb (128 kg)

## HYDRAULICS

<b>Pump:</b> Parker P330 Single Section Gear Pump	
<b>Main relief pressure:</b> Standard	3,350 +/- 50 psi (231 +/- 3.5 bar)
<b>Filtration:</b> 7-micron, return line, full flow, spin on element, condition indicator light for filter.	
<b>Oil cooler</b>	Heavy-duty
<b>Loader flow @ rated engine RPM:</b> 28.5 gpm @ 3,350 psi (108.0 L/min @ 231 bar)	
<b>Loader control valve:</b> Two or three-spool open center monoblock valve. Two and three-spool valves have a single lever manual control for lift and tilt functions. Three-spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "return-to-dig" feature. System Main Relief valve is single stage w/ Manual Backhoe Controls, dual stage relief valve w/ Pilot Backhoe Controls.	
<b>Loader auxiliary hydraulics w/ proportional thumb switch w/ detent on loader control handle.</b>	
<b>Loader auxiliary hydraulics w/ full available flow:</b> 0 – 28.5 gpm (0 – 108 L/min)	
<b>Backhoe flow @ rated engine RPM:</b> 28.5 gpm @ 3,350 psi (108 L/min @ 231 bar)	
<b>Manual backhoe control valve:</b> Six or seven-spool monoblock open center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve has an open center parallel circuit for all functions.	

**Pilot backhoe control valve:**  
Six, seven or eight-spool sectional closed center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve is closed center, w/ circuits in parallel w/ a post-compensated, flow sharing feature for simultaneous operation of all circuits.

**Unidirectional auxiliary hydraulics:**  
Unidirectional hydraulic valve is equipped w/ an adjustable LS relief valve to control attachment pressure and a 6 position flow control selector for 6 detented, distinct flow settings.

**Actuation:**  
Manual backhoe controls – cab floor pedal  
Pilot controls – left-hand joystick

**Bidirectional auxiliary hydraulics\*:**  
**Actuation:**  
Activate the bidirectional Switch located on the rear console  
Manual shift – bidirectional linkage on far right of backhoe tower  
Pilot controls – left-hand joystick.

NOTE: \*Available w/ Combo Aux. Hyd. option.

## SERVICE CAPACITIES

<b>Fuel tank</b>	35.0 gal (132.0 L)
<b>DEF tank</b>	3.6 gal (13.5 L)
<b>Hydraulic system:</b>	
Total	111 qt (105.0 L)
w/ Extendahoe®	117 qt (110.7 L)
Reservoir w/ filter	55 qt (52.4 L)
Reservoir w/o filter	53 qt (50.5 L)
<b>Transmission – total system:</b>	
2WD Standard	18 qt (17.0 L)
2WD Powershift	23 qt (21.7 L)
4WD Standard	21 qt (19.4 L)
4WD Powershift	22 qt (20.7 L)

<b>Front axle:</b>	
4WD Differential	8.1 qt (7.7 L)
4WD Planetaries – each	0.5 qt (0.5 L)
<b>Rear axle:</b>	
Differential and planetaries	14.4 qt (13.6 L)
Engine oil w/ filter	8.5 qt (8.0 L)
<b>Cooling system:</b>	
w/ heater	19.0 qt (18.0 L)
w/o heater	18.3 qt (17.3 L)
Window washer reservoir	3.0 qt (2.8 L)

## OTHER SPECIFICATIONS

<b>Front tires:</b>	
2WD	11.0 L x 16.0, 10-ply rating
4WD	12.0 L x 16.5, 8-ply rating
<b>Rear tires:</b>	
2/4WD	19.5 L x 24.0, 10-ply rating
2/4WD	17.5 L x 24.0, 10-ply rating
<b>Loader:</b> Bucket position indicator; Lifting lugs on standard bucket; Single lever control w/ self-leveling and return-to-dig; Hand operated clutch disconnects on loader and shift levers, single lever 4-function loader control: lift, dump, clutch cut-out, differential lock.	

## Turning radius\*: Curb to Curb

<b>2WD:</b>	
Brakes on	10 ft 8 in (3.24 m)
Brakes off	12 ft 4 in (3.76 m)
<b>4WD – engaged:</b>	
Brakes on	11 ft 4 in (3.45 m)
Brakes off	13 ft 10 in (4.21 m)
<b>4WD – disengaged:</b>	
Brakes on	11 ft 0 in (3.36 m)
Brakes off	12 ft 3 in (3.72 m)
<b>Backhoe:</b> Over center design, Fabricated "S" boom; Open-center hydraulics – Pro Control System.	

NOTE: \*Turning radius dimensions curb to curb w/ 17.5 L x 24.0 rear tires.

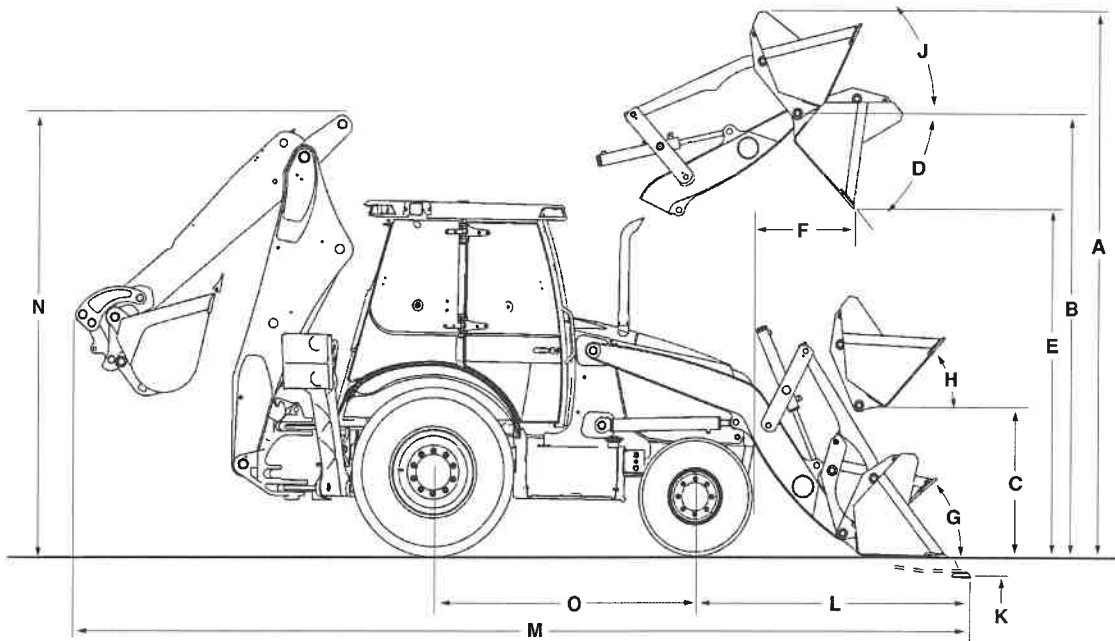
## LOADER BUCKET SIZES

Type	Width	Weight	Struck	Heaped Capacity
Long Lip Bucket without bolt-on edge	82 in (2.08 m)	683 lb (310 kg)	0.88 yd <sup>3</sup> (0.67 m <sup>3</sup> )	1.03 yd <sup>3</sup> (0.79 m <sup>3</sup> )
	93 in (2.36 m)	1,188 lb* (539 kg)	1.10 yd <sup>3</sup> (0.84 m <sup>3</sup> )	1.29 yd <sup>3</sup> (0.99 m <sup>3</sup> )
4 IN 1® Bucket with bolt-on edge	82 in (2.08 m)	1,572 lb* (713 kg)	0.85 yd <sup>3</sup> (0.65 m <sup>3</sup> )	1.05 yd <sup>3</sup> (0.80 m <sup>3</sup> )

NOTE: \*Weight of 4 IN 1® bucket includes edges, cylinders and tube lines.

## BACKHOE BUCKET SIZES

Type	Width	Weight	Heaped Capacity
General Purpose Trenching Buckets	18 in (457 mm)	232 lb (105 kg)	4.70 ft <sup>3</sup> (0.13 m <sup>3</sup> )
	24 in (610 mm)	272 lb (123 kg)	6.26 ft <sup>3</sup> (0.18 m <sup>3</sup> )
Universal Buckets	12 in (305 mm)	295 lb (137 kg)	3.40 ft <sup>3</sup> (0.10 m <sup>3</sup> )
	18 in (457 mm)	356 lb (162 kg)	5.30 ft <sup>3</sup> (0.15 m <sup>3</sup> )
	24 in (610 mm)	427 lb (194 kg)	7.70 ft <sup>3</sup> (0.22 m <sup>3</sup> )
	30 in (762 mm)	489 lb (222 kg)	10.20 ft <sup>3</sup> (0.29 m <sup>3</sup> )
	36 in (914 mm)	552 lb (251 kg)	12.70 ft <sup>3</sup> (0.36 m <sup>3</sup> )
High Capacity Buckets	24 in (610 mm)	447 lb (203 kg)	8.50 ft <sup>3</sup> (0.24 m <sup>3</sup> )



Line drawings are for illustrative purpose only and may not be exact representation of unit.

### LOADER DIMENSIONS

	Long Lip Bucket	4 IN 1 <sup>®</sup> Bucket
<b>A.</b> Overall operating height – fully raised	13 ft 9 in (4.18 m)	13 ft 8 in (4.16 m)
Height to:		
<b>B.</b> Bucket hinge pin fully raised	11 ft 3 in (3.42 m)	11 ft 3 in (3.42 m)
<b>C.</b> Bucket hinge pin at SAE carry	13.6 in (345 mm)	13.6 in (345 mm)
<b>D.</b> Dump angle at full height	47°	47°
<b>E.</b> Dump clearance at full height, 45° dump:		
Bucket	8 ft 10 in (2.69 m)	8 ft 11 in (2.71 m)
Clam open	—	9 ft 8 in (2.96 m)
<b>F.</b> Dump reach at full height, 45° dump:		
Bucket	31.5 in (801 mm)	29.1 in (738 mm)
Clam open	—	15.3 in (388 mm)
Bucket rollback:		
<b>G.</b> @ Groundline	42°	42°
<b>H.</b> @ SAE carry	42°	42°
<b>J.</b> @ Full height	Adjustable	Adjustable
<b>K.</b> Digging depth below grade:		
Bucket flat	6.1 in (155 mm)	4.8 in (122 mm)
Clam open – dozing	—	4.1 in (103 mm)
<b>L.</b> Reach from front axle centerline – bucket on ground	6 ft 10 in (2.08 m)	6 ft 10 in (2.03 m)
Lift capacity to full height	6,803 lb (3 086 kg)	6,459 lb (2 930 kg)
Breakout force:		
Lift cylinders	9,506 lb (4 228 daN)	9,276 lb (4 126 daN)
Dump cylinders	10,622 lb (4 724 daN)	11,312 lb (5 032 daN)
Bucket cutting edge width	82.5 in (2.09 m)	82.0 in (2.08 m)
Maximum grading angle	114°	114°
Maximum clam opening	—	38.3 in (972 mm)
Moldboard height	—	36.8 in (934 mm)
Raising time to full height	4.6 sec	4.6 sec
Bucket dumping time	1.1 sec	1.1 sec
Lowering time:		
Power down	2.6 sec	2.6 sec
Return-to-dig	3.6 sec	3.6 sec
Clam:		
Open time	—	1.0 sec
Close time	—	1.0 sec

NOTE: Loader dimensions taken with 4WD, 19.5 L x 24.0 rear tires.



## DIMENSIONS

	2WD with 19.5 L x 24.0 tires	4WD with 19.5 L x 24.0 tires
<b>M. Overall transport length:</b>		
Long Lip bucket with Quick Coupler	23 ft 5 in (7.14 m)	23 ft 4 in (7.10 m)
4 IN 1 <sup>®</sup> bucket with Quick Coupler	23 ft 3 in (7.07 m)	23 ft 1 in (7.04 m)
Long Lip bucket with Straight Links	23 ft 6 in (7.15 m)	23 ft 4 in (7.12 m)
4 IN 1 <sup>®</sup> bucket with Straight Links	23 ft 3 in (7.09 m)	23 ft 2 in (7.06 m)
Overall transport width – rear tires	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
<b>Height:</b>		
To top of canopy	8 ft 9 in (2.66 m)	8 ft 9 in (2.66 m)
To top of cab	8 ft 11 in (2.72 m)	8 ft 11 in (2.72 m)
To top of exhaust stack	8 ft 7 in (2.62 m)	8 ft 7 in (2.61 m)
<b>N. Transport</b>	10 ft 10 in (3.30 m)	11 ft 1 in (3.37 m)
Ground clearance at backhoe frame	15.0 in (380 mm)	15.0 in (380 mm)
Angle of departure	15.3°	19.0°
<b>Front wheel tread:</b>		
11.0 L x 16.0	67.5 in (1.71 m)	67.5 in (1.71 m)
12.0 L x 16.5	67.7 in (1.72 m)	67.7 in (1.72 m)
<b>Rear wheel tread:</b>		
17.5 L x 24.0	63.1 in (1.60 m)	63.1 in (1.60 m)
19.5 L x 24.0	61.2 in (1.55 m)	61.2 in (1.55 m)
<b>Width over tires:</b>		
11.0 L x 16.0	79.3 in (2.01 m)	79.3 in (2.01 m)
12.0 L x 16.5	81.1 in (2.06 m)	81.1 in (2.06 m)
17.5 L x 24.0	81.7 in (2.07 m)	81.7 in (2.07 m)
19.5 L x 24.0	81.4 in (2.07 m)	81.4 in (2.07 m)
<b>O. Wheelbase</b>	84.0 in (2.13 m)	84.5 in (2.15 m)

## CYLINDERS

	Bore Diameter	Rod Diameter	Stroke	Closed Length
<b>Loader:</b>				
Lift – 2	3.25 in (82.6 mm)	1.75 in (44.5 mm)	28.86 in (733.0 mm)	41.81 in (1 062.0 mm)
Dump – 2	3.00 in (76.2 mm)	1.50 in (38.1 mm)	20.33 in (516.5 mm)	30.31 in (769.9 mm)
4 IN 1 <sup>®</sup> clam – 2	3.00 in (76.2 mm)	1.75 in (44.5 mm)	9.08 in (230.6 mm)	19.62 in (498.3 mm)
<b>Backhoe:</b>				
Boom	4.50 in (114.3 mm)	2.25 in (57.2 mm)	38.22 in (971.5 mm)	52.82 in (1 341.6 mm)
Dipperstick	4.25 in (108.0 mm)	2.25 in (57.2 mm)	25.14 in (628.5 mm)	39.65 in (1 007.0 mm)
Bucket	3.25 in (82.6 mm)	2.25 in (57.2 mm)	35.35 in (897.9 mm)	48.17 in (1 223.6 mm)
Extendahoe <sup>®</sup>	3.00 in (76.2 mm)	1.75 in (44.5 mm)	42.05 in (1 068.0 mm)	56.22 in (1 428.0 mm)
Swing – 2	3.75 in (95.3 mm)	2.00 in (50.8 mm)	11.50 in (292.0 mm)	24.44 in (620.8 mm)
Stabilizer – 2	4.25 in (108.0 mm)	2.25 in (57.2 mm)	21.37 in (542.9 mm)	33.87 in (860.2 mm)

## AXLE RATINGS

	Front – 2WD	Rear	Front – 4WD
Maximum static	70,821 lb (32 124 kg)	90,145 lb (40 889 kg)	64,613 lb (29 308 kg)
Dynamic operating	44,261 lb (20 076 kg)	56,200 lb (25 492 kg)	39,328 lb (17 839 kg)
Static operating	17,704 lb (8 030 kg)	22,480 lb (10 197 kg)	15,732 lb (7 136 kg)
Oscillation – front axle	22° total – 11° side to side	—	22° total – 11° side to side

**BACKHOE LIFT CAPACITIES**

Standard Backhoe		Extendahoe®	
Boom Lift	Lift Capacity lb (kg)	Retracted Lift Capacity lb (kg)	Extended Lift Capacity lb (kg)
+16 ft (4.87 m)	—	—	1,693 (768)
+14 ft (4.27 m)	2,472 (1 121)	2,271 (1 030)	1,979 (897)
+12 ft (3.66 m)	2,857 (1 296)	2,644 (1 199)	2,124 (964)
+10 ft (3.05 m)	2,966 (1 345)	2,748 (1 246)	2,172 (985)
+8 ft (2.44 m)	2,983 (1 353)	2,761 (1 252)	2,169 (984)
+6 ft (1.83 m)	2,963 (1 344)	2,739 (1 242)	2,173 (985)
+4 ft (1.22 m)	2,929 (1 329)	2,701 (1 225)	2,165 (982)
+2 ft (0.61 m)	2,892 (1 312)	2,662 (1 207)	2,153 (977)
<b>Ground Level</b>	2,858 (1 297)	2,625 (1 191)	2,153 (977)
-2 ft (0.61 m)	2,834 (1 285)	2,598 (1 178)	2,145 (973)
-4 ft (1.22 m)	2,827 (1 282)	2,588 (1 174)	2,143 (972)
-6 ft (1.83 m)	2,853 (1 294)	2,609 (1 183)	2,154 (977)
-8 ft (2.44 m)	2,949 (1 338)	2,698 (1 224)	2,189 (993)
-10 ft (3.05 m)	3,319 (1 506)	3,053 (1 385)	2,270 (1 030)
-12 ft (3.66 m)	—	—	2,429 (1 102)
-14 ft (4.27 m)	—	—	3,115 (1 413)
<b>Dipper Lift</b>			
+14 ft (4.27 m)	—	—	3,154 (1 431)
+12 ft (3.66 m)	4,343 (1 970)	4,139 (1 877)	2,981 (1 352)
+10 ft (3.05 m)	4,027 (1 827)	3,826 (1 735)	2,823 (1 281)
+8 ft (2.44 m)	4,112 (1 865)	3,910 (1 774)	2,855 (1 295)
+6 ft (1.83 m)	4,563 (2 070)	4,357 (1 976)	3,010 (1 365)
+4 ft (1.22 m)	5,398 (2 449)	5,177 (2 348)	2,948 (1 337)
+2 ft (0.61 m)	—	—	3,486 (1 581)

**BACKHOE OPERATIONAL DATA**

	Standard Backhoe	Extendahoe®	
		Retracted	Extended
Digging depth:			
Maximum	14 ft 9 in (4.50 m)	14 ft 9 in (4.50 m)	18 ft 3 in (5.55 m)
2 ft (610 mm) flat bottom	14 ft 8 in (4.46 m)	14 ft 8 in (4.46 m)	18 ft 1 in (5.52 m)
8 ft (2.44 m) flat bottom	13 ft 8 in (4.16 m)	13 ft 8 in (4.16 m)	17 ft 4 in (5.29 m)
Overall reach from:			
Rear axle centerline	21 ft 11 in (6.68 m)	21 ft 11 in (6.68 m)	25 ft 4 in (7.72 m)
Swing pivot	18 ft 4 in (5.57 m)	18 ft 4 in (5.57 m)	21 ft 8 in (6.60 m)
Loading height	11 ft 9 in (3.59 m)	11 ft 9 in (3.59 m)	14 ft 1 in (4.30 m)
Loading reach – dipper retracted	6 ft 9 in (2.04 m)	6 ft 9 in (2.04 m)	9 ft 4 in (2.84 m)
Swing arc	180°	180°	180°
Bucket rotation:			
Straight links	175.6°	175.6°	175.6°
Mechanical coupler	198.0°	198.0°	198.0°
Stabilizer spread – centers:			
Flip pad	9 ft 5 in (2.87 m)	9 ft 5 in (2.87 m)	9 ft 3 in (2.81 m)
Cast Pad	9 ft 9 in (2.97 m)	9 ft 9 in (2.97 m)	9 ft 7 in (2.92 m)
Digging force:			
Bucket cylinder	11,517 lb (51 228 N)	11,517 lb (51 228 N)	11,517 lb (51 228 N)
Dipper cylinder	6,710 lb (29 484 N)	6,710 lb (29 484 N)	4,887 lb (21 738 N)
Leveling angle:			
Flip pad	12.8°	12.8°	12.8°
Cast pad	13.8°	13.8°	13.8°

## STANDARD EQUIPMENT

### OPERATOR ENVIRONMENT

See page 1

### ENGINE

FPT F58FL413C diesel  
Cooled EGR  
Selective Catalytic Reduction – SCR  
Full flow engine oil filter  
Air cleaner – replaceable dry type  
with radial seal  
Aspirated air cleaner  
Radiator with de-aeration bottle  
Antifreeze to -34° F (-37° C)  
Throttles, both rotary hand and foot  
Self adjusting belt

### DRIVETRAIN

Front axle, as selected:  
2WD heavy-duty front axle with  
11.0 L x 16.0 tires  
4WD heavy-duty mechanically driven front  
axle, with 12.0 L x 16.5 tires  
Rear axle:  
2/4WD heavy-duty outboard planetary drive,  
with 17.5 L x 24.0 tires  
4F-4R Power Shuttle  
Synchronesh transmission  
Torque converter – 11.8 in (300 mm)  
On-the-go electric 4WD control  
Electric F/R shuttle control  
Electric differential lock control,  
with push-button activation on  
the loader control lever  
Park brake, spring-applied, hydraulic  
release - SAHR

### HYDRAULICS

Gear pump:  
28.5 gal/min @ 3,350 psi  
(107.9 L/min @ 231 bar)  
Heavy-duty hydraulic oil cooler  
7-micron, spin on oil filter

### LOADER

See page 2

### BACKHOE

See page 2

### OTHER

Forward tilt engine hood  
Replaceable, molded front bumpers  
Front/Rear tie downs  
Reflective logos  
Lights – cab and canopy:  
2 front driving  
2 rear tail/stop  
2 front flashers/turn  
2 rear flashers/turn  
Lights – cab only:  
Adjustable halogen work lights – 55 W:  
2 front  
2 side – left and right  
4 rear  
Lights – canopy only:  
Adjustable halogen work lights – 55 W:  
2 side – left and right  
2 rear

### TELEMATICS

CASE SiteWatch™ Telematics – includes  
hardware and a 3-yr Advanced  
data subscription

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

- Speed Selectable Auto Ride Control – 4WD models
- Standard Ride Control – 2WD models
- Comfort Steering with momentary latching switch, two-speed steering pump and 3rd/4th gear cutout
- ROPS/FOPS certified protective cab with rear wipers and floor mat
- Cab Convenience Package containing pull-down sun visor, window washer – front and rear, left-hand storage tray, deluxe interior package, tilt steering column, Sound Reduction Package for cab models – levels reduced to 72 dB (A), right-hand threshold storage box, viscous fan
- Air-conditioning for cab models
- Mechanical suspension seat with flip-up armrests, 180° swivel, heated cloth or vinyl, adjustable seat and weight, backrest angle, lumbar and cushion angle
- Air Ride suspension seat with flip-up armrests, 180° swivel, heated, electric height adjustment, adjustable backrest and lumbar support – cab units cloth, canopy units vinyl
- Pull-down sun visor for canopy models
- Radio, AM/FM Stereo/WB, MP3 auxiliary input – cab models
- 3 in (75 mm) seat belt for mechanical and air-suspension seat

### ENGINE

- Cold Weather Starting Aid with dual 12 Volt batteries and glow plugs
- Block heater

### DRIVETRAIN

- Powershift S-Type transmission, 4F-3R fully synchronized, electronic transmission controller and kick down in loader control lever – 2WD or 4WD
- Heavy-duty outboard planetary drive without 19.5 L x 24.0 tires

### LOADER

- Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control
- Hydraulic front quick coupler
- Loader linkage without loader bucket
- Tool portfolio of additional attachments
- Buckets – see page 2

### BACKHOE

- Auxiliary backhoe unidirectional hydraulics
- Auxiliary backhoe combo hydraulics:
  - Hand lever operated for bidirectional manual controls
  - Button operated for pilot controls, includes unidirectional and bidirectional
- Auxiliary hydraulics with flow from 0 to 28 gal/min (0 to 106 L/min)
- Extendahoe®
- Two-lever controls - backhoe or Extendahoe®

- Pilot operated control system:
  - Fingertip proportional Electro-Hydraulic stabilizer controls
  - Thumb-operated proportional Electro-Hydraulic Extendahoe® control
  - Thumb-operated horn button
  - Thumb-operated auxiliary hydraulic control
  - Infinitely adjustable towers
  - In-cab switchable “excavator to backhoe” control pattern change
- Flip over stabilizer pads
- Cemetery/Street pads
- Case mechanical quick coupler
- Universal coupler – CAT/Deere compatible
- Buckets – see page 2

### OTHER

- Front:
  - 11.0 L x 16.0 10-ply or 12.0 L x 16.5 8-ply
- Rear:
  - 17.5 L x 24.0 10-ply or 19.5 L x 24.0 10-ply
- Special paint
- Canopy lights – Additional 2 front and 2 rear halogen lights – 55 W
- Tool box – bolt-on, step-mounted
- Front counterweights:
  - 700 lb and 1,100 lb (318 kg and 500 kg)
- Rotating beacon
- Master disconnect switch and remote jump-start terminals
- Eco-Mode – Detent on backhoe hand throttle, push button switch on desk

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

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**CASE**  
CONSTRUCTION

# 580N BACKHOE LOADER



State Equipment, Inc.  
560 New Goff Mountain Road  
Cross Lanes, WV 25313  
304-776-4405

# 580N Backhoe Loader

## THE BEST GETS BETTER.

Announcing the Tier 4 Final 580N backhoe loader. We've taken the backhoe that set the standard for the industry and made it even more productive. A simple SCR (Selective Catalytic Reduction) engine provides more horsepower. New options like our push-button ECO-mode, auto-idle and auto-shutdown improve fuel efficiency.

And with a new universal coupler, it's more versatile than ever. Of course it still offers the real difference makers – ProControl, Comfort Steer™, Ride Control™ and an over-center backhoe design. In other words, it's still the best. Just better.



# 580N Highlights

- 1 Exclusive ProControl swing dampening system** comes standard and minimizes backhoe rebound to provide precise control.
- 2 Over-center backhoe design** provides better balance for smoother roading and also creates a better departure angle.
- 3 Heavy-duty loader** designed with long arms for easier truck loading and in-line, parallel linkage for better balance with uneven loads.
- 4 Auto-Ride Control™** (optional on 4WD models) helps with load retention by cushioning loader arm bounce at elevated speeds.
- 5 Exclusive to CASE, the Comfort Steer™** option saves time during repetitive loader tasks by cutting lock-to-lock turns in half.
- 6 New fuel efficiency options** include auto-idle, auto-shutdown and ECO-mode, which provides full power to the backhoe while in neutral.
- 7 The industry's most maneuverable controls** with infinitely adjustable pilot control towers, a control pattern selector and adjustable wrist rests.
- 8 Floor-to-ceiling windows and a low-profile hood** provide **maximum visibility** all around the machine.
- 9 Rear-quarter window opens 180°** for an unobstructed view, enhanced airflow and easy communication with spotters around the machine.
- 10 Adjustable SmartClutch** lets operators customize the feel of forward-to-reverse transitions (aggressive, moderate or soft) to suit their preference.
- 11 New universal backhoe coupler** option fits Cat® and John Deere attachments for expanded versatility.
- 12 N Series buckets** come standard with the innovative **SmartFit™ bucket tooth system**, which has heavy-duty, self-sharpening teeth and a hammerless fastener system for easy installation.
- 13 Exclusive "Easy Flex" side lights** are adjustable to provide overlapping fields of coverage for greater illumination at night.

## SCR – A Strong Tier 4 Final Solution.

CASE chose an SCR (Selective Catalytic Reduction) Tier 4 Final solution to meet emissions regulations without sacrificing strength. That's because SCR is an after-treatment system. It lets the engine breathe easier and run at peak performance, which translates to maximum power. Plus, SCR is simple. No new filters. Just pour a little DEF (Diesel Exhaust Fluid) and go.



## Over-Center Backhoe Design.

Our revolutionary over-center backhoe design locks the boom in toward the machine, transferring at least 15% of its weight to the front axle, which drastically improves stability to minimize "porpoising" during roading. You'll retain more material and comfortably travel up to an outstanding 24 mph to, from and around the site.

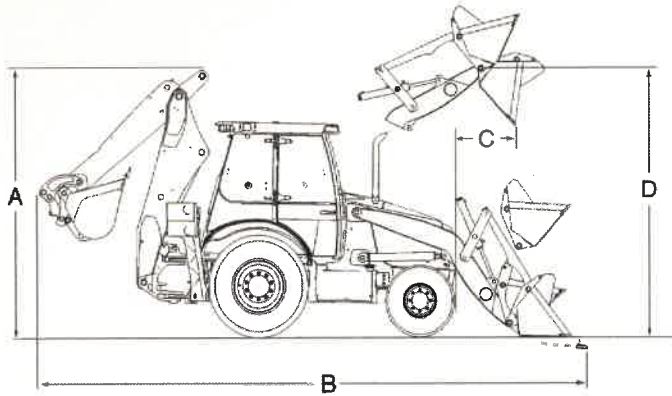


## Cut Turns In Half With Comfort Steer™.

Exclusive to CASE, the Comfort Steer option reduces lock-to-lock rotations when moving from full right to full left (and vice versa). You can load, stockpile and backfill considerably faster and more easily navigate tight material yards with less operator discomfort throughout the day.



580N



Line drawings are for illustrative purpose only and may not be exact representation of unit.

### DIMENSIONS

### 580N

A. Transport Height	133 in. (3 367 mm)
B. Overall Transport Length	280 in. (7 103 mm)
C. Dump reach at full height, 45° dump	31.5 in. (801 mm)
D. Hight To Bucket Hinge Pin Fully Raised	135 in. (3 417 mm)
Maximum Digging Depth, Standard/Extendahoe®	14 ft. 9 in. (4 484 mm)/18 ft. 3 in. (5 539 mm)

NOTE: Dimensions taken with 4WD, 19.5 L x 24.0 rear tires, and Long Lip bucket.

SPECIFICATIONS	580N
Engine Make / Model	FPT F5BFL413C
Emissions Certification	Tier 4 Final
Gross HP – hp (kW)	90 (67)
Peak Torque – lb-ft (N·m)	306 (415)
Displacement / Cylinders – in. <sup>3</sup> (L)	207 (3.4)/4
Auxiliary Hydraulic Flow – gpm (L/min)	28.5 (108)
Loader Lift Capacity – lb. (kg)	6,803 (3 086)
Loader Bucket Breakout Force – lb. (daN)	10,622 (4 724)
Backhoe Lift Capacity at Ground Level – lb. (kg)	2,858 (1 297)
Backhoe Bucket Breakout Force – lb. (N)	11,517 (51 228)
Operating Weight – lb. (kg)	17,751 (8 052)

## SiteWatch™

Standard on all N Series backhoe loaders, CASE SiteWatch telematics breaks the boundaries of fleet management by allowing you to monitor and manage multiple machines from your office, wherever that may be. No more manually tracking down engine hours and fuel levels. Get real-time performance metrics, idle-time analytics, scheduled maintenance intervals and programmable security alerts sent to any computer, anywhere.

### Maintenance Made Easy.

When you buy a CASE, you want it to last. We make it simple. The N Series is no exception. From swing-out coolers and outboard-mounted disc brakes to ground-level site gauges and grouped service points under the flip-up hood, you can do daily maintenance in a matter of minutes. Plus, with the new SCR engine, there's no new maintenance needs.



**CASE** Customer Assistance  
866-54-CASE6

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Form No. CCE201411580N



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it

is operating properly. Follow the product safety signs and use any safety features provided.

NOTE: All engines meet current EPA emissions regulations.

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Contains 10% post-consumer fiber

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CASE construction equipment is biodiesel-friendly.



## HTD20C - 12 Ton Capacity



### Standard Specifications

GVWR	29,950 lbs.	Brakes	Electric / Self Adj. 12 1/4" x 5"
Empty Weight	5,950 lbs.	Wheels	16" x 6" Dual 8-bolt
Maximum Payload	24,000 lbs. w/Adequate hitch load	Tires	LT235/85R16" 10-PR
Overall Length	28'	Jack Capacity	12,000 lb. w/Drop Foot
Deck Length	22' (13' Flat w/9' taper)	Under Frame	6" I-Beam @ 25#
Overall Width	96"	Upper Deck	8" I-Beam @ 18#
Deck Width	96"	Crossmembers	Double 3" Channel @ 7#
Deck Height	35"	Side Rails	6" Channel @ 8.2#
Hitch	Adj. 3" Forged Eye	Decking	2" x 8" White Oak
Hitch Height	22" to 32"	Tie Downs	Rub Rail w/Stake Pockets
Axles	(2) 12K Oil Bath Dexter w/Brakes	Lights	LED Sealed Rubber Mounted
Suspension	Multi-Leaf Spring	Colors	Yellow or Black

### Options

12KAB - Air Brakes w/ABS & ASA	8WSD - Stationary Deck (4' Max.)
5THW - 5th Wheel w/King Pin	8WADL - Additional Deck Length (4' Max.)
8W5THW - 8' Wide 5th Wheel w/King Pin	8W102 - 102" Wide
LTBL - Lockable Toolbox Lid	STSLG - Single 2 Speed Landing Gear
MW - Modular Wiring	CO - Color Options: Red, Blue or Green
TC - Trickle Charger for Break-A-Way	STM - Spare Tire Mount