



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

State of West Virginia
Centralized Request for Quote
Equipment

Proc Folder: 1039118

Doc Description: ADDENDUM NO_2 Skid Steer w/attachments 7022EC16

Reason for Modification:

ADDENDUM NO_2
Vendor Questions and Responses

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2022-06-03	2022-06-08 13:30	CRFQ 0803 DOT2200000173	3

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON WV 25305

US

06/08/22 09:36:05
WV Purchasing Division

VENDOR

Vendor Customer Code: 00000205464

Vendor Name : STATE EQUIPMENT, INC.

Address : 560 NEW GOFF MOUNTAIN ROAD

Street :

City : CROSS LANES

State : WV

Country : USA

Zip : 25313

Principal Contact : EDDIE ROWAN, JR

Vendor Contact Phone: 304-776-4405

Extension: 1012

FOR INFORMATION CONTACT THE BUYER

John W Estep

304-558-2566

john.w.estep@wv.gov

Vendor
Signature X

FEIN# 550658298

DATE 6/7/22

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

ADDITIONAL INFORMATION**ADDENDUM NO_2**

Addendum No_2 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 WVDOH Equipment Division to establish an open-end contract to purchase John Deere 333G Skid Steer or equal. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION RT 33
83 BRUSHY ROAD
CROSSING, PO BOX 610
BUCKHANNON WV
US

SHIP TO

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
83 BRUSHY FORK RD
CROSSING
BUCKHANNON WV
US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Skid Steer	20.00000	EA	\$108,492.00	\$2,169,840.00

Comm Code	Manufacturer	Specification	Model #
22101529	CASE	SKID STEER W/ATTACHMENTS	TV620B

Extended Description:

Skid Steer

INVOICE TO

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EQUIPMENT DIVISION
83 BRUSHY FORK RD
CROSSING
BUCKHANNON WV
US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	18" cold planer	10.00000	EA	\$19,600.00	\$196,000.00

Comm Code	Manufacturer	Specification	Model #
22101608	ERSKINE	COLD PLANER	CP18

Extended Description:

18" cold planer

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	24" Cold Planer	10.00000	EA	\$20,600.00	\$206,000.00

Comm Code	Manufacturer	Specification	Model #
22101608	ERSKINE	COLD PLANER	CP24

Extended Description:

24" Cold Planer

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	30" Cold Planer	10.00000	EA	\$25,800.00	\$258,000.00

Comm Code	Manufacturer	Specification	Model #
22101608	UNIVERSAL	COLD PLANER	AP760E1

Extended Description:

30" Cold Planer

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	96" Broom	10.00000	EA	\$11,400.00	\$114,000.00

Comm Code	Manufacturer	Specification	Model #
22101700	ERSKINE	ANGLE BROOM	960HDX

Extended Description:
96" Broom

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
6	72" Broom	10.00000	EA	\$7,975.00	\$79,750.00



Comm Code	Manufacturer	Specification	Model #
22101700	ERSKINE	PICK-UP BROOM	HEAVY DUTY PICK-UP BROOM

Extended Description:
72" Broom

SCHEDULE OF EVENTS

Line	Event	Event Date
1	PREBID - 11:00am Equip Div. Buckhannon WV	2022-05-26
2	Tech Questions due by 10:00am	2022-06-02

VENDOR: 000000205464 **Class 351**

Item No.	Description:	Model & Part Number Being Bid	Estimated Unit Quantity	Unit Price	Item Total Cost
1	John Deere 333G Skid steer or equal	CASE TV 620B	20	\$108,492.00	\$2,169,840.00
2	CP18E Cold Planer or equal	ERSKINE CP18	10	\$19,600.00	\$196,000.00
3	CP24E Cold Planer or equal	ERSKINE CP24	10	\$20,600.00	\$206,000.00
4	CP30E Cold Planer or equal	UNIVERSAL AP760E1	10	\$25,800.00	\$258,000.00
5	BA96C Broom or equal	ERSKINE 960HDX	10	\$11,400.00	\$114,000.00
6	BR72C Broom or equal	ERSKINE HEAVY DUTY PICK-UP BROOM	10	\$7,975.00	\$79,750.00
Total Bid Cost					\$3,023,590.00
Bid Will Be Awarded To The Lowest Overall Bid Total For All Items					
Vendor Information					
Company Name: STATE EQUIPMENT, INC.					
Contact Manager: EDDIE ROWAN, JR					
Address: 560 NEW GOFF MOUNTAIN ROAD, CROSS LANES, WV 25313					
Phone: 304-776-4405					
Fax: 304-776-4409					
E-mail: eddie@stateequipment.com					
Signature: 					

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DOT2200000135

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 type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input checked="" type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input 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 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

6/7/22

Date

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

REQUEST FOR QUOTATION
John Deere Skid Steer 333G or Equal

8.2 Reports: Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

8.3 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: EDDIE ROWAN, JR
Telephone Number: 304-776-4405
Fax Number: 304-776-4409
Email Address: eddie@stateequipment.com

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)  GENERAL MANAGER

(Printed Name and Title) EDDIE ROWAN, JR GENERAL MANGER

(Address) 560 NEW GOFF MOUNTAIN ROAD CROSS LANES, WV 25313

(Phone Number) / (Fax Number) (304)776-4405 / (304)776-4409

(email address) eddie@stateequipment.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract 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/Contract 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.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

STATE EQUIPMENT, INC.

(Company)  GENERAL MANAGER

(Authorized Signature) (Representative Name, Title)
EDDIE ROWAN, JR GENERAL MANAGER 6/7/22

(Printed Name and Title of Authorized Representative) (Date)
(304)776-4405 / (304)776-4409

(Phone Number) (Fax Number)
eddie@stateequipment.com

(Email Address)



ENGINE

Model	FPT F5B FL413 D*CO05
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbo, D.I.
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in³ (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
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) Diesel Oxidation Catalyst (DOC)
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	114 hp (85 kW)
Net	114 hp (85 kW)
Peak torque @ 1400 RPM	339 lb-ft (460 N-m)
Radiator:	
Core type	Aluminum bar and plate
Core size area	253 in² (0.163 m²)
Rows of tubes x columns	19 rows
Cap pressure	16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan:	
Diameter	22 in (560 mm)
Ratio	0.96:1 standard, 1.1:1 high-flow
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	Electro-hydraulic
Pump to engine ratio	1:1
Displacement	3.7 in³ (60 cm³)
Flow @ rated engine RPM:	
@ 96% efficiency	37.9 gpm (143.5 L/min)
Charge pressure	377 psi (26 bar)
System relief pressure	5,800 psi (400 bar)

Drive Motors – Rubber Undercarriage:

Max. displacement	3.0 in³ (49.1 cm³)
Flow @ rated engine RPM @ 96% efficiency:	
	1.83 in³ (30.0 cm³)
Motor torque @ max. displacement and relief pressure, calculated @ 5,800 psi (400 bar):	
	4,840 lb-ft (6 562 N-m)

Travel speed – Rubber Track:

Low range	5.0 mph (8.0 kph)
High range	8.7 mph (14.0 kph)

Final drive:

Planetary gearbox w/ 2-speed motor

Tractive effort	10,995 lb (4 998 kg)
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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	145 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance 950 cold-cranking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

Enclosed cab (ROPS/FOPS Level 1): Fully sealed and pressurized – FSP Glass door w/ wiper and washer, Sliding side windows – removable, Ventilation system w/ integrated heater, Heater and air conditioner, AM/FM Bluetooth radio w/ 2 speakers and USB port; Keyless start ignition; 8 in Color LCD Display; Economy Mode (auto idle shutdown); Auto Engine Protection Shutdown; Deluxe cloth, air suspension seat, w/ heater and lumbar support; 2 in (51 mm) retractable 3 pt lap seat belt; Ignition Timeout; Machine Settings; User Access Levels; Operator Security Codes; Hand and foot throttles; Alarm package – back-up and horn; Rearview mirror; 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, diagnostic features; Electro-hydraulic controls: For drive/steering, loader functions, Switchable between H and ISO patterns, Adjustable sensitivity of controls.

Warning lights w/ 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; Oil service.

Indicator light:

Engine preheat; Parking brake;
Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ closed cab; 165 lb operator;
84 in Heavy Duty bucket; full of fuel:

16,100 lb (7 311 kg)

Shipping weight 15,800 lb (7 182 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)
Air Ride	20 lb (9.1 kg)
Additional counterweight	Not Available

HYDRAULICS

Implement pump type	Axial Piston
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Displacement:

Enhanced high-flow aux. 3.8 in³ (63.0 cm³)

Standard flow @ rated engine RPM:

@ 100% efficiency 24.2 gpm (91.5 L/min)

Optional high-flow @ rated engine RPM:

@ 100% efficiency 41.6 gpm (157 L/min)

Enhanced high-flow @ rated engine RPM:

@ 100% efficiency 41.6 gpm (157 L/min)

Loader control valve:

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

Port relief pressures:

Loader raise	4,351 psi (300 bar)
Bucket curl	4,351 psi (300 bar)
Bucket dump	4,351 psi (300 bar)

Hydraulic lines:

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

Hydraulic oil cooler:

Number of fins	10 per inch (4 per cm)
Number of tube rows x columns	21 bar/plate
Area	298.2 in² (1 920 cm²)

HYDRAULICS CONT.

Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders:	
Bore diameter	3.25 in (82.5 mm)
Rod diameter	2.25 in (57.1 mm)
Stroke	38.8 in (985 mm)
Closed length	59.6 in (1 515 mm)
Bucket cylinders:	
Bore diameter	3.25 in (82.5 mm)
Rod diameter	1.75 in (44.5 mm)
Stroke	19.7 in (500 mm)
Closed length	31.5 in (800 mm)

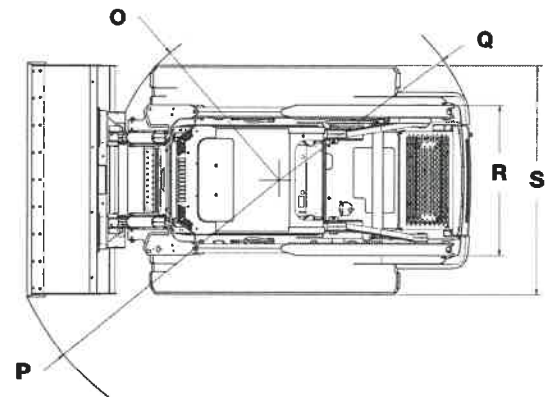
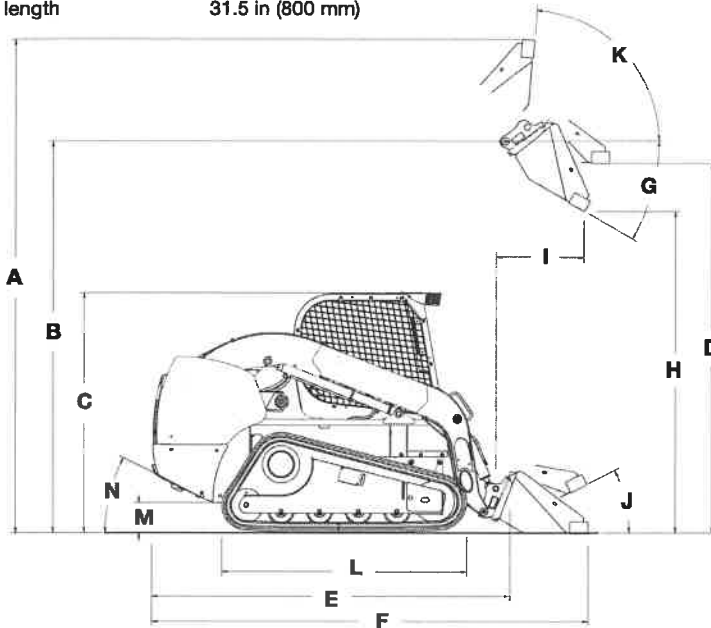
SERVICE CAPACITIES

Fuel Tank	30.8 gal (116.5 L)
Engine oil w/ filter	8.9 qt (8.5 L)
Hydraulic system	10.7 gal (40.5 L)
Diesel Exhaust Fluid (DEF) Tank	3.3 gal (12.4 L)

PERFORMANCE SPECS

Rated operating capacity – ROC*:	
35% of tipping load	4,340 lb (1 969 kg)
50% of tipping load	6,200 lb (2 812 kg)
Tipping load*	12,400 lb (5 625 kg)
Breakout forces @ 3,150 psi (217 bar)*:	
Bucket Cylinders	12,907 lb (57.4 kN)
Lift cylinders	12,084 lb (53.8 kN)
Cycle times:	
Raise	4.2 sec
Lower	2.2 sec
Dump	2.3 sec
Roll back	1.6 sec

NOTE: *Measured using 78 in (1.98 m) heavy-duty bucket.



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

DIMENSIONS

A. Overall operating height:	with heavy duty bucket	176.5 in (4.48 m)
	with XHD bucket	189.6 in (4.82 m)
Height to:		
B.	Bucket hinge pin	140.2 in (3.56 m)
C.	Top of ROPS	84.6 in (2.15 m)
D.	Bottom of level bucket, fully raised	133.3 in (3.39 m)
Overall length:		
E.	without attachment with coupler	129.5 in (3.29 m)
F.	with heavy duty bucket on ground	159.1 in (4.04 m)
	with XHD bucket	172.7 in (4.39 m)
G.	Maximum dump angle	46.1°
H. Dump height:	with heavy duty bucket	109.0 in (2.77 m) @ 46.1°
	with XHD bucket	99.2 in (2.52 m) @ 46.1°
I.	Dump reach at maximum height with heavy duty bucket	39.0 in (0.99 m) @ 46.1°
Maximum attachment rollback:		
J.	Bucket on ground	30°
K.	Bucket at full height	84°
L.	Track on ground	74 in (1.88 m)
M.	Ground clearance – bottom of belly pan	12.6 in (0.32 m)
N.	Angle of departure	37.7°
Clearance circle:		
O.	without bucket – Rubber Track	67.4 in (1.71 m)
P.	with 84 in (2.13 m) heavy duty bucket on ground – Rubber Track	102.3 in (2.60 m)
Q.	Clearance circle rear – Rubber Track	69.5 in (1.77 m)
R.	Track gauge	60.6 in (1.54 m)
S.	Over the track width – Rubber Track	78.3 in (1.99 m)

TRACK SELECTION

Type	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm) – Rubber Track	2,286 in ² (1.48 m ²)	6.1 psi (42.2 kPa)	78.3 in (1.99 m)

OPTIONAL BUCKETS

Type	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile Extended	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft ³ (0.58 m ³)
Light Material	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Heavy-Duty	78 in (1.98 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft ³ (0.48 m ³)
Heavy-Duty Extended with SmartFit Teeth	78 in (1.98 m)	697 lb (316 kg)	18.9 ft ³ (0.54 m ³)
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft ³ (0.58 m ³)
XHD (Extra Heavy Duty)	84 in (2.13 m)	900 lb (410 kg)	33.8 ft ³ (0.96 m ³)
XHD (Extra Heavy Duty) with SmartFit Teeth	84 in (2.13 m)	990 lb (450 kg)	33.8 ft ³ (0.96 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Charge Air Cooler (CAC)
Dual element air cleaner
Organic Acid Technology (OAT)
Anti-freeze solution to -34° F
Over and under radiator and oil cooler
3-stack after cooler/radiator/oil cooler configuration
Glow plugs
Integral engine oil cooler
Fuel filter with water trap
Master electrical disconnect
Jump start terminal
Hydraulically driven reversible fan

DRIVETRAIN

2-speed hydrostatic four wheel drive
SAHR disc parking brake
Foot pedal modes - Accelerate, Trans and Decelerate

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Open Cab (ROPS/FOPS Level 1) w/ side screens; Keyed Start
Mechanical Suspension Seat - Vinyl
Demolition cab door with polycarbonate

HYDRAULICS

Enhanced High-Flow auxiliary hydraulics – EHF:
@ 4,100 psi (283 bar) – 41.6 gpm
(157 L/min)
Second auxiliary hydraulics

HYDRAULICS

Auxiliary hydraulics:
@ 3,450 psi (238 bar) – 24.2 gpm
(91.5 L/min)
High-flow auxiliary hydraulics:
@ 3,450 psi (238 bar) – 41.6 gpm
(157 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
Loader function lockout system
Auxiliary front electric control
Hydraulic one-way self leveling
Auto Ride Control
Creep Speed Mode
Auxiliary flow control within cab

OTHER

Language decals
Buckets – see page 3
Bolt-on bucket cutting edges
Special paint

LOADER

Hydraulic attachment coupler
Vertical lift geometry
Loader lift arm support pin

TRACKS

Heavy Duty Rubber Tracks

OTHER STANDARD FEATURES

LED lights - 2 front, 2 side, 2 rear flood
Pre-wired for rotating beacon
Lockable service access hood
Single-point daily servicing
Rear tail lights
Remote oil and fuel filters
Block heater
Debris ingress sealing

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 1-yr data subscription
SiteConnect Module providing remote diagnostics capability

SERVICE PARTS

Road lights
Four-corner LED strobe
Precleaner
FOPS Level 2
3 inch (76.2 mm) retractable seat belt
Bolt-on heavy-duty bucket teeth
Rotating beacon
Four point lift hook
Class III 48 in (1.22 m) pallet forks
1150 CCA battery for high altitude
Fire Extinguisher
Tamper resistant front door bracket
Attachment Hose Kit
Drawbar
Extra counterweights not offered for this model

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. CCE202109TV620B
Replaces Form No. CCE202102TV620B

TV620B

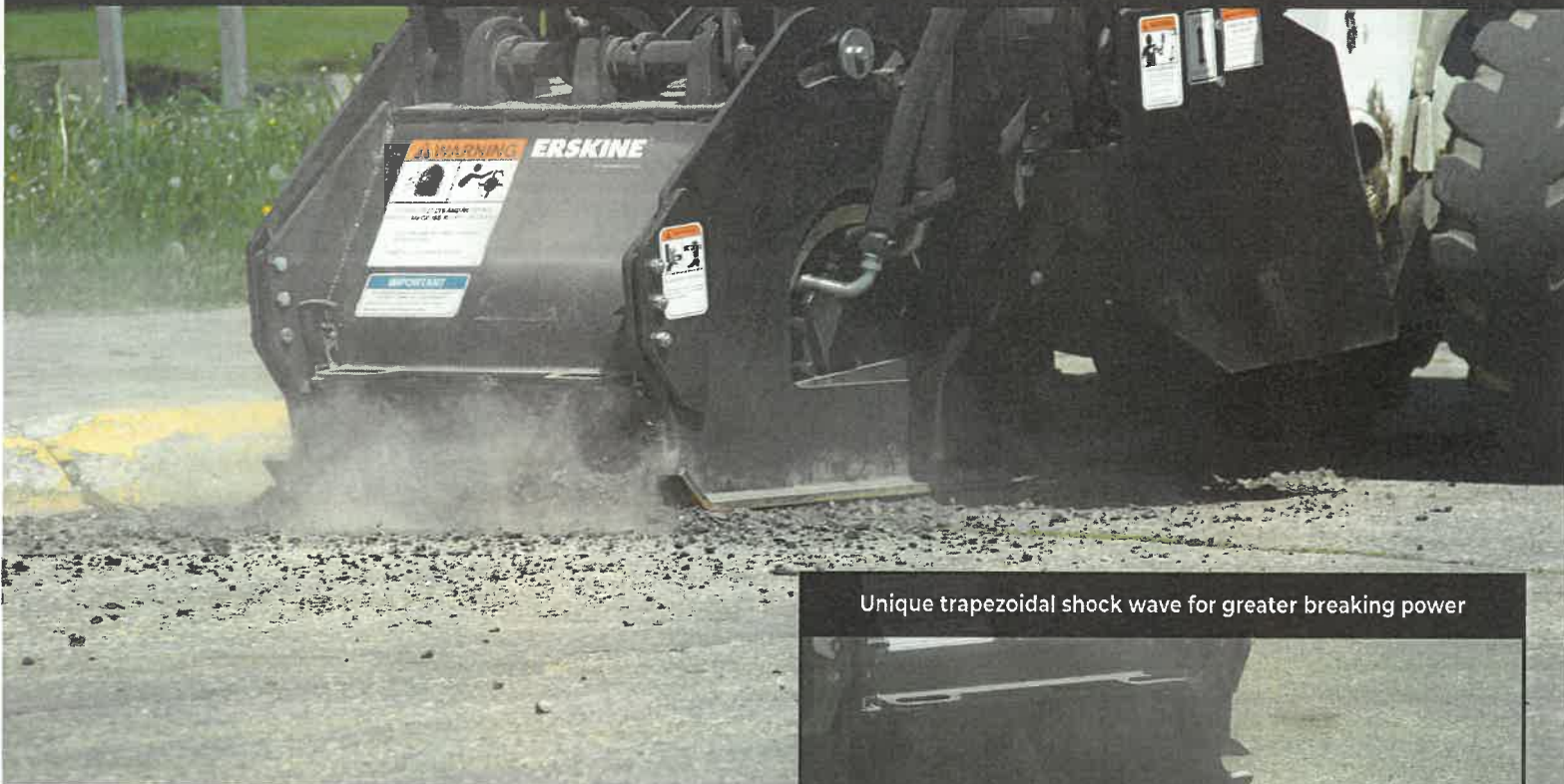
ERSKINE[®]

ATTACHMENTS

WWW.ERSKINEATTACHMENTS.COM

800.437.6912

COLD PLANER SKID STEER ATTACHMENT

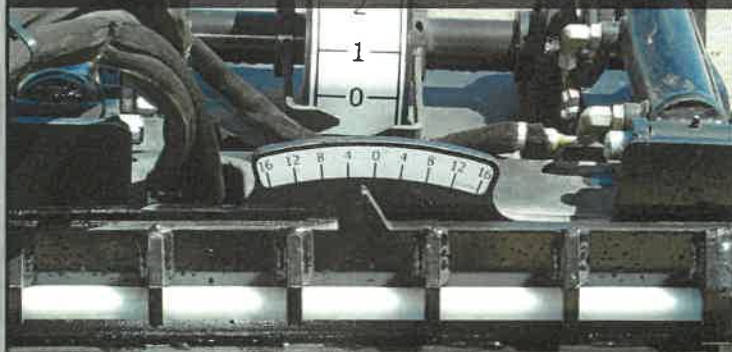


Unique trapezoidal shock wave for greater breaking power

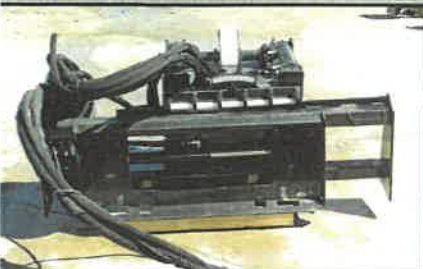


The Hydraulic Breaker makes quick work out of a tough job. The smart and efficient design provides a workhorse with only two moving parts. Vibration and shock are controlled by shock absorbing polymers, minimizing machine wear and sound while improving operator comfort level.

Effective noise and vibration damping



Power booster for high performance and low vibration



ERSKINE[®]

ATTACHMENTS

WWW.ERSKINEATTACHMENTS.COM

800-437-6912

Hydraulic Breaker

Take a Picture of This QR Code With Your Smart Phone to See it in Action



Planetary drum drive generates higher torque than direct drive packages

Electro-Tilt controls allow operator to adjust the position of the drum to match exact job requirements

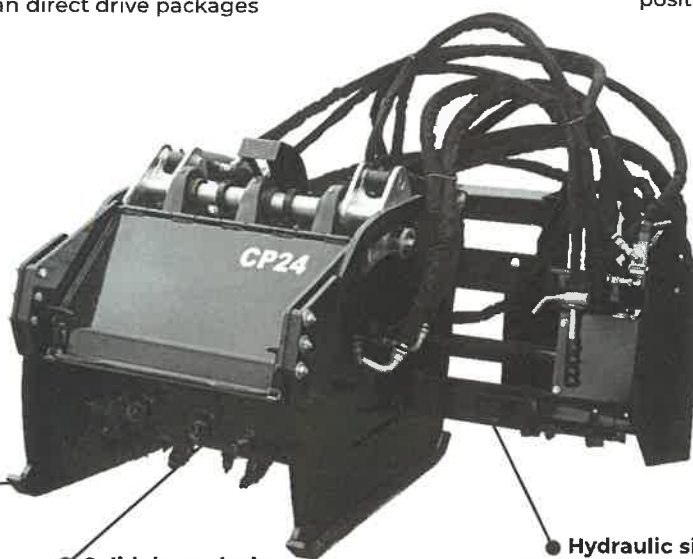
Radial piston cam-lobe direct-drive motor

- Max Pressure (5,800 psi)
- Max Power 55 HP
- High Efficiency (90%)
- Very Low Noise

Right & left side skid shoes can be controlled independently for uneven terrain

Solid drum design creates fine, recyclable aggregate — material moves to rear of drum to prevent re-milling of material

Hydraulic side-shift allows planer to shift up to 24" to the right for cuts close to the curbs



FEATURES & BENEFITS

- Adjustable to a wide variety of job environments including road construction, landscaping, bridge deck repair, municipal, shopping center, and utility work
- Easy to maneuver around manholes and storm drains; excellent for bridge decks where heavier dedicated planers are not allowed
- Side-Shift feature moves planer from left to right for maximum maneuverability
- Two tools in one; cut asphalt and concrete with the same machine

SPECIFICATIONS / OPTIONS

Model	CP18	CP24	CP36	CP48
Part Number	900938	900939	901430	901431
Depth of Cut	0-6"	0-6"	0-6"	0-6"
Width of Cut	18"	24"	36"	48"
Number of Teeth	48	60	78	90
Standard Side-Shift	24" Hydraulic	24" Hydraulic	24" Hydraulic	24" Hydraulic
Tilt	16°	16°	8°	8°
Hydraulic Requirement	22-56 GPM; 2,800-6,525 psi	25-56 GPM; 3,000-6,525 psi	25-112 GPM; 3,000-6,525 psi	25-112 GPM; 3,000-6,525 psi
Weight	1,600 lb.	1,750 lb.	2,550 lb.	2,800 lb.

Options

Bolt-On Rollers

Pistol Grip Control Harness

Loader Specific Wire Harness

Case Drain Coupler

Factory Installed Couplers

Factory Installed High Flow Couplers

* For more specification details please see our website www.erskineattachments.com



COLD PLANER AP SERIES III





Open-drum design — The exclusive open drum design improves planer productivity by greatly reducing the power loss caused by the pics and drum passing through the already planed material. Standard planing drums lose power, particularly at depths below 1-1/2" because material is trapped between the pics and the drum. The open drum design overcomes this problem giving you increased productivity. The open drum shaft is supported on both ends by greasable heavy duty bearings.

Front access door — All sizes come equipped with a large access door for quick inspection and easy removal of pics.

High pic count outside drum plates — Extra pics are strategically located on the outer drum plates to reduce wear on the outside pics and blocks and to provide a smooth cutting action.

Optional water kits — Each planer has pre-drilled holes to accept optional Coneqtec/Universal water kits.

Specifications

	AP 300	AP 400	AP 450	AP 600	AP 760	AP 800	AP 1000
Cutting width	12"	16"	18"	24"	30"	32"	40"
Cutting depth	6"	6"	6"	6"	6"	6"	6"
Tilt capability Right or left	15°	15°	15°	15°	7 1/2°	7 1/2°	7 1/2°
Side shift travel	24"	24"	24"	24"	24"	24"	24"
Shipping weight (lbs)	1500	1600	1700	1900	2200	2450	2700
Minimum HYD. HP recommended	24	32	36	48	60	62	70
Maximum HYD. HP permissible	70	100	100	100	100	100	100
Flow	Hi/Std	Hi/Std	Hi	Hi	Hi	Hi	Hi
# Teeth	38	48	56	68	78	88	108

NOTES: AP-450 and AP-600 available in standard and heavy duty versions. Drum sizes down to 3" width are available as well as special pic count drums for low torque or smooth cut applications. High pressure option allows use up to 5000 psi. Special motor specifications available for skid steers that do not meet recommended HP requirements.

Center-pivot design — Planer performance is greatly improved with the center pivot design which puts the force of the skid steer directly over the cutting drum. This eliminates stress on the planer frame and the "instability & bouncing" experienced with the rear pivot or top pivot products currently on the market. This feature greatly increases productivity and stability in your most difficult planing operations such as dense packed asphalt or concrete.

Front down design — The operation and safety of the planer is greatly enhanced by the unique front down design. This exclusive feature keeps the front of the planer low to the ground, providing a constant barrier for the debris generated by the planing operation.

High torque direct-drive design — This delivers the power directly to the drum. No power is lost through a planetary reduction system.

Controls — Planers come with the option of either swing-away hydraulic controls or electric controls.



Applications

Large milling projects — Your skid steer equipped with the Universal planer, is a powerful tool on your large job sites. Plane next to curbs, man holes, and other areas left behind by the large mills.

Parking lot repair — Remove large areas of deteriorating overlays with the wide planing drum without disturbing the base.

Asphalt overlay projects — The smooth power and stability of the Universal planer make easy work of key cuts at intersections and areas that require tapering or blending.

Municipal projects — Mill pot holes for long lasting repair, smooth bumps or frost heaves, and remove asphalt or concrete prior to utility work.

Sold & Serviced By

Revision 11/01

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HEAVY-DUTY PICK-UP BROOM SKID STEER ATTACHMENT

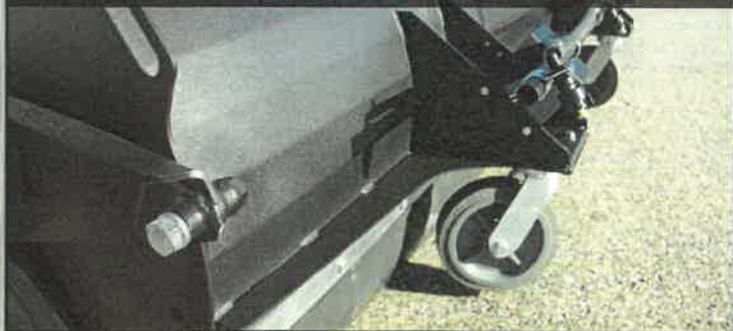


Optional dust-control water kit easily mounts to broom



Sweep dirt and debris or scrape mud going forward. Ideal for construction, industrial or municipal jobs, it's easy to attach and simple to operate. The reversible cutting edge helps cut loose caked-on mud, while the sweeper's poly bristles deposit dirt and debris in the container.

Dual heavy-duty caster wheels keep consistent pressure between the bristles and the ground



Optional 40 - gallon tank with self-priming diaphragm



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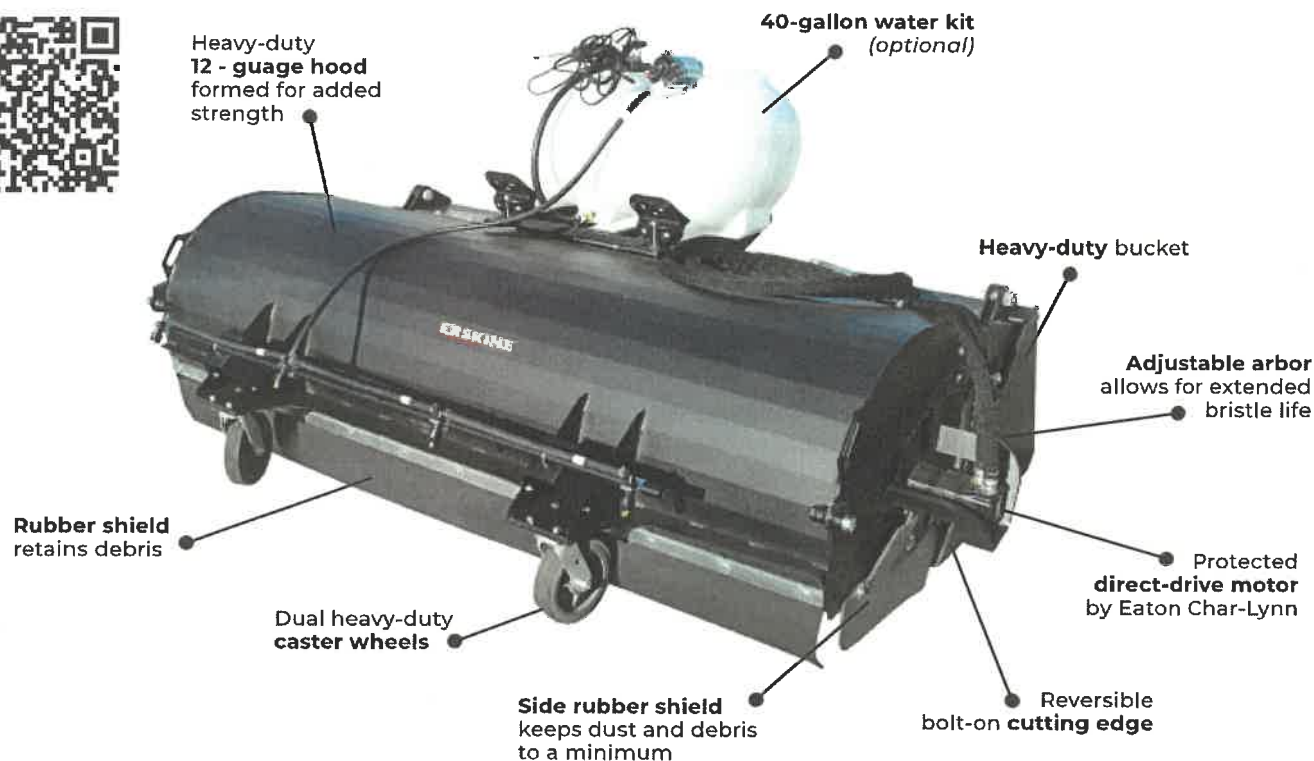
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Heavy-Duty Pick-Up Broom

Take a Picture of This QR Code With Your Smart Phone to See it in Action



FEATURES & BENEFITS

- Large 26" diameter wafers for longer life
- Completely covered to control dust – ideal for warehouses, machine sheds, parking lots, job sites etc. where dust containment is a MUST!
- Reversible bristle direction for multi-purpose
- Our universal quick attach plates fit most skid steers

SPECIFICATIONS / OPTIONS

Model	72" w/poly	72" w/poly/steel	84" w/poly	84" w/poly/steel	84" w/poly	84" w/poly/steel
Part Number	901466	901467	901470	901471	901065	901066
Weight	960 lb.	960 lb.	1050 lb.	1050 lb.	940 lb.	940 lb.
Width	72"	72"	84"	84"	84"	84"
Overall Height	25.25"	25.25"	25.25"	25.25"	25.25"	25.25"
Diameter of Wafer	26"	26"	26"	26"	24"	24"
Wafer Package - Qty	38	38	44	44	44	44
Cutting Edge	.625" x 6"	.625" x 6"	.625" x 6"	.625" x 6"	.625" x 6"	.625" x 6"
Drive System (motor)	Direct-Drive Hyd.	Direct-Drive Hyd.	Direct-Drive Hyd.	Direct-Drive Hyd.	Direct-Drive Hyd.	Direct-Drive Hyd.

Options

Water Kit

Wafer Package 72" HD Poly

Wafer Package 72" HD Poly/Steel

Wafer Package 84" HD Poly

Wafer Package 84" HD Poly/Steel

Curb Sweeper

Curb Sweeper Rep. Bristle Steel

Curb Sweeper Rep. Bristle Poly

Factory Installed Couplers

* For more specification details please see our website www.erskineattachments.com

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HEAVY-DUTY POWER ANGLE BROOM SKID STEER ATTACHMENT



Oscillating design allows broom to follow uneven terrain

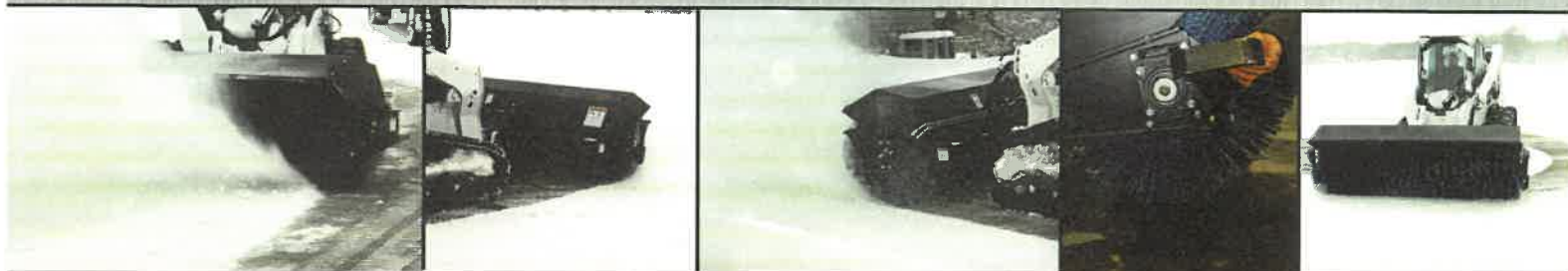


The Heavy-Duty Power Angle Broom design offers a heavy-duty frame, oversized bearing, and larger motor drive block. The strong and simple-to-use parking stands need no tools and have no pins that can get lost. The floating tilt follows the uneven surfaces for better bristle contact.

Robust storage stands



Clean up parking areas



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Heavy-Duty Power Angle Broom

Take a Picture of This QR Code With Your Smart Phone to See it in Action



Hood made from **14 Gauge steel** and formed for added strength

More robust and larger diameter **filament** than most of our competitors

Multiple heavy-duty **wafer packages** available

Flip up storage **stand**, no snap pins needed

Oversized 4" bearing on arbor

Direct-drive design with replaceable drive components allowing forward and reverse operation

Optional: Wire Harness for hydraulic models with attachment controls. Fits Cat/ASV (8-pin) and John Deere/New Holland/CASE/Bobcat (14-pin).

Optional: Pistol Grip Control Harness is required if skid steer is NOT equipped with attachment control system. (Only needed when ordering hydraulic angling model).

FEATURES & BENEFITS

- 8° floating tilt allows broom to follow ground contour. This helps prevent bristle coning when angled
- Oversized 4" bearing on arbor
- Stronger reinforced frame
- Handles on bearing help with arbor change
- Handles on motor can help with bearing change and help protect motor
- Easy flip down stands require no tools and no pins
- Angle side to side 30 degrees
- Larger 3" hex drive helps with longevity

SPECIFICATIONS / OPTIONS

Model	720HD / 720HDX / 720HDXL	840HD / 840HDX / 840HDXL	960HD / 960HDX / 960HDXL
Width	72"	84"	96"
Width Fully Angled	62" @ 30°	72.5" @ 30°	83" @ 30°
Broom Angle	Manual 30° / Hyd 30° / Hyd 30°	Manual 30° / Hyd 30° / Hyd 30°	Manual 30° / Hyd 30° / Hyd 30°
Drive System	Hydraulic Motor Direct-Drive	Hydraulic Motor Direct-Drive	Hydraulic Motor Direct-Drive
Skid Steer Flow Range	13-24 GPM	13-24 GPM	13-24 GPM
Wafer Diameter	32"	32"	32"
Wafer Sections (number)	38	44	50
Wafer Options	Poly	Poly/Steel	Steel
Mounting Plate	Universal	Universal	Universal
Weight	850 lb.	900 lb.	950 lb.
Reversible Valve Block	Included w/XL model	Included w/XL model	Included w/XL model

Options

Pistol Grip Control Harness*

Loader Specific Wire Harness*

Factory Installed Couplers

*Applies to Hydraulic Angling Models Only

* For more specification details please see our website www.erskineattachments.com

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0323-21-V1



**CNH Industrial America LLC
and CNH Industrial Canada, Ltd.**

WARRANTY AND LIMITATION OF LIABILITY AGREEMENT LIGHT - CASE CONSTRUCTION EQUIPMENT

The Case Warranty

The Case Warranty is a limited warranty that is provided to the initial retail purchaser in return for consideration paid as part of the purchase price of the product. The selling dealer is expected to review the warranty coverage with the initial retail purchaser and obtain his/her signature on this document.

New Limited Warranty

The warranty described here is from CNH Industrial America LLC and in Canada, CNH Industrial Canada Ltd., both of which are referred to in this agreement as "Case" for the Case Construction Brand. This warranty is for Case products sold and registered in the United States or Canada and normally operated in the United States or Canada. This warranty does NOT apply to any product normally operated outside of the United States and/or Canada, or to any unit purchased outside of the United States or Canada and imported in for any reason other than a customer relocation/personal move.

Warranty Period

For the products listed below, the Warranty Period for all coverage begins at the time that any person, dealer or agent first places the unit into service. At the latest, a unit is considered to be placed into service when purchased or delivered to an initial retail purchaser. Certain demonstration, rental, lease, and other used units may be eligible for a portion of a new unit warranty. The availability of the remaining portion of a new unit warranty does not mean that a unit is new or unused. The Warranty Period ends when either the month or machine hour limit is reached, whichever limit occurs first.

CASE LIGHT PRODUCT	BASE WARRANTY	EXTENDED WARRANTY	NOTES
SKIDSTEER / COMPACT TRACK LOADERS	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Notes 3, 4
Case Engines (Warranty through Case)		24 Mo. / 2000 Hrs	
LOADER BACKHOES	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Notes 1, 3
Case Engines, Torque Converter, Transmission, Drive Shafts & Drive Axles			
TRACTOR LOADERS / FORKLIFTS	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Notes 1, 3
Case Engines, Torque Converter, Transmission, Drive Shafts & Drive Axles			
COMPACT EXCAVATORS CX-B Series	12 Mo. / 1000 Hrs	12 Mo. / 1000 Hrs	Notes 2, 3
Yanmar Engines (Warranty through Case)			
COMPACT EXCAVATORS CX-C Series	24 Mo. / 3000 Hrs	24 Mo. / 3000 Hrs	Notes 2, 3
Yanmar / Kubota Engines (Warranty through Case)			
Mid-sized Compact Excavators – CX75/CX80 CX-C Series	12 Mo. / 1800 Hrs	24 Mo. / 2000 hrs	Notes 2, 3
Isuzu Engines (Warranty through Case)			
COMPACT WHEEL LOADERS	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs	Note 3
Case Engines (Warranty through Case)			

- 1) Torque converter, transmission, drive shafts, & drive axles are covered for 24 months / 2000 hours.
- 2) Warranty does not cover any configuration excavator equipped with feller buncher/accumulator attachments
- 3) Engine warranty coverage is provided through Case.
- 4) Second year machine warranty coverage after base warranty expires

Operator's Manual / Warranty Receipt Verification

- YES ☐ / NO ☐ The selling dealer has reviewed the correct operator's manual with me and will provide the operator's manual upon delivery of the product.
- YES ☐ / NO ☐ The selling dealer has explained safety precautions to me.
- YES ☐ / NO ☐ The selling dealer has explained the warranty terms and coverage to me.
- YES ☐ / NO ☐ The selling dealer has explained Purchased Protection Plan options for additional coverage on select components.
- YES ☐ / NO ☐ Customer acknowledges that CNH Industrial America LLC/CNH Industrial Canada Ltd. may access and use diagnostic and telematics vehicle data for appropriate business purposes.

Model:	Serial Number:	Hours:	Ops man. Number:
Model:	Serial Number:	Hours:	Ops man. Number:
Model:	Serial Number:	Hours:	Ops man. Number:
Retail DATE:		Usage:	
Purchaser Name (please print):		Dealer Name:	
Address:		Address:	
City / State:		City / State:	
Zip code:		Zip code:	
Phone Number:		Phone Number:	

The answers checked above are correct. I acknowledge that I have read and I accept this warranty policy statement.

Purchaser Signature _____ Date _____

Dealer Signature _____ Date _____

See page 2 for important limitations and exclusions

What's Covered

If a defect in material or workmanship is found in a unit and reported during the Warranty Period, Case will pay parts and labor costs to repair the defect if the services are performed by an authorized Case dealer at the dealer's location. If parts are needed during the repair, Case will, at its option, use genuine Case new or remanufactured parts. Case replacement parts that are used in a warranty repair are warranted until the end of the machine warranty or to the end of the Case Replacement Parts Warranty, whichever is longer.

CASE PROVIDES NO WARRANTY, EXPRESS OR IMPLIED, FOR A COMPONENT OR OTHER ITEM THAT IS SEPARATELY WARRANTED TO THE PURCHASER BY ITS MANUFACTURER, SUCH AS TIRES, BATTERIES AND FUEL INJECTION COMPONENTS. CHECK WITH YOUR DEALER FOR DETAILS

No Modification or Extension of Warranty Period

The Case Warranty is limited to the written terms in this document. Case does not authorize any person, dealer or agent to change or extend the terms of this warranty in any manner. Any assistance to the purchaser in the repair or operation of any Case product outside the terms or limitations or exclusions of this warranty will not constitute a waiver of the terms, limitations or exclusions of this warranty, nor will such assistance extend or re-establish the warranty.

EXCLUSIVE REMEDY

THE REMEDY OF REPAIRING A DEFECT IN MATERIALS OR WORKMANSHIP AT A CASE DEALERSHIP UNDER THE TERMS OF THIS WARRANTY IS THE PURCHASER'S EXCLUSIVE REMEDY AND IS IN LIEU OF ANY OTHER REMEDY OTHERWISE AVAILABLE.

This Warranty is Void If

The unit's hour meter is changed or altered, unless a Case dealer, at the direction of Case, changed the meter. If the unit is modified or used in an application for which it is not designed, or the unit has been scrapped, salvaged, stolen, junked or totaled.

Limitation and Exclusions The Case Warranty gives you specific legal rights and you may also have other rights, which vary, from region to region.

THIS DOCUMENT CONTAINS THE ENTIRE CASE WARRANTY. CASE MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, AND SPECIFICALLY EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. CASE WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM A BREACH OF THE WRITTEN WARRANTY OR ANY IMPLIED WARRANTY IMPOSED BY LAW.

Owner's Responsibility

The Case warranty remains in effect during the Warranty Period if the owner performs the required maintenance at the recommended intervals outlined in the product operator's manual and the unit is operated within its rated capacity. Genuine Case service parts or Case approved service parts that meet Case specifications must be used for maintenance and repair.

What's Not Covered

- Cost associated with performing pre-delivery or scheduled inspection service.
- Repairs arising from storage deterioration, failure to maintain the equipment, negligence, alteration, improper use of the equipment, collision or other accident, vandalism, or other casualty, or operation beyond rated capacity or specification.
- Repairs arising from abuse or neglect, including but not limited to: operation without adequate coolant or lubricants, adjustments to the fuel system outside equipment specifications, over-speeding, improper storage, starting, warm-up, or shutdown practices, incorrect fuel or contaminated fuel, oil or other fluids.
- Normal maintenance services, such as engine tune-ups, engine fuel system cleaning, checks, adjustments, shimming, etc.
- Replacement of non-defective wear items expected to be replaced during the warranty period, including but not limited to: light bulbs, spark plugs, ignition points, brake or clutch linings, slip clutches, belts, chains, knives, bucket cutting edges and teeth, crawler track pads and track components, crop processing and cutting components, external drive sprockets and chains, soil engaging tools and accessories.
- Items replaced due to customer demand.
- Labor charges performed by anyone except a dealer authorized by contract to repair the equipment, unless they qualify under special provisions (i.e.; outside labor).
- Any and all travel costs for items such as towing, service calls, or transporting a unit to and from the place where the warranty service is performed, unless specifically covered by a product improvement program or units classified as heavy and/or compaction products
- Claims involving loss or damage during shipment or handling, including units subsequently sold as a "salvage" unit.
- "Salvage" or other units sold on an "as is" basis, unless otherwise specified in writing at the time of sale.
- Normal maintenance costs, including but not limited to: lubricants, coolants, fluids, fuel, filters, and associated labor. Lubricants, filters, and coolants may qualify for warranty reimbursement if they require replacement as a DIRECT RESULT of a defect in material or workmanship.
- Claims involving the inspection or reconditioning of units after storage or prior use.
- Components or items that are separately warranted directly by the manufacturer including but are not limited to: tires, tracks, engines, transmissions, batteries, fuel injection pumps, fuel injectors, etc.
- Shop comebacks: any duplicate, repeat, or comeback repair resulting from improper diagnosis, testing, or service work. This also includes repairs arising from service performed by agents not approved by Case.
- Repairs arising from any unauthorized modification to the product or the use on non-CNH Industrial parts, implements, or attachments, including but not limited to performance changing (i.e., increasing horsepower or other modifications) and/or emissions defeating modifications.
- Removal, replacement, or installation of non-CNH Industrial optional equipment, attachments or components.
- Premiums charged for overtime labor costs or out of shop expenses.
- Economic loss including lost profits, crop loss, crop damages, equipment rental, contract delay, project expenses, or other expenses or damages.
- Unauthorized modification or updating machines without a warrantable failure based on Service Bulletin information or production changes.
- Any and all costs of special tools
- Any and all costs of dealer shop supplies incurred with repairs, including but not limited to: solvents, cleaners, anti-seize lubricants, loctite, sealant, adhesive, oil-dry, shop towels, etc. Sealant or adhesive may qualify for warranty reimbursement in certain applications requiring a large volume of sealant/ adhesive.
- Failure of the machine, its implements or attachments caused by improper field application or loading.
- Any and all costs for coolant, fuel, or lube (oil) analysis including supplies and lab recommendations.
- Cost of initial setup or installation of any optional equipment or attachments to a unit.
- Cost associated with cleaning of machine in preparation for servicing

The signed WLL can be scanned and emailed as an attachment to NA-WLL-AGREEMENT@CNHIND.COM or can be mailed to:

USA mail original to CNH Industrial Capital America LLC, Attn: WLL Agreement, PO Box 1700 New Holland, PA 17557
USA Overnight courier mail original to CNH Industrial Capital America LLC, Attn: WLL Agreement, 500 Diller Ave., New Holland, PA 17557
Canada mail original to CNH Industrial Capital America LLC, Attn: WLL Agreement, 4475 North Service Rd, Suite 301, Burlington, ON L7L4X7 Canada

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