

BID SUBMITTAL FORM
Alabama County Joint Bidding Program
BID ITEM – 100 HP HYDROSTATIC BULLDOZER – OPTION D

Company Name: TRACTOR & EQUIPMENT CO. INC.
Address: P.O. BOX 12326
BIRMINGHAM, AL 35212
Bid Submitted by: JOE PATTON
(Name of company representative)
Title: V.P. E-mail address: jpatton@TEC1943.com
Phone: (205) 591-2131 Fax: (205) 591-8321

By submitting this bid, we agree:

The equipment model number identified below meets the bid specs for this bid item

That the bid price will be honored for all counties for the period from Jan. 1, 2024 to Dec. 31, 2024.

The equipment will be delivered at the bid price to all counties participating in the joint bid program

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program

The bid is accompanied by a current catalog or model specification document for the model number identified below

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications

The bid includes the e-verify documentation required by Alabama law

If awarded the bid, a performance bond will be provided upon request

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine**

Initials

JP

JP

JP

JP

JP

JP

JP

JP

JP

100 HP HYDROSTATIC BULLDOZER – OPTION D

Total Bid Price for Standard Machine: \$ 192,275.⁰⁰
(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs)*

Freight Preparation and Delivery: \$ 4900.⁰⁰
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 259,169.⁰⁰

Equipment Model #: KOMATSU D39PX-24

Description: 100 HP CRAWLER DOZER (OPTION D)

Signature of company representative submitting bid: 

Title: V.P.

* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

* Bid Included A 5 YEAR - 4000
Hour Premier Coverage Warranty

AND A 5 YEAR - 4000 HOUR TEC
Service Program *

* TEC does not Charge ANY Travel Time
or Mileage on A WARRANTY Claim *

**BID SUBMITTAL FORM: OPTION COST SHEET
100 HP HYDROSTATIC BULLDOZER – OPTION D**

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine*

The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) with **any available Options** for the Standard Machine

AP
AP

Equipment Model #: KOMATSU D39PX-24

Description: 100 HP Hydrostatic Dozer (OPTION D)

Signature of company representative submitting bid: [Signature]

Title: V.P.

***Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

* Bid Includes A 5 YEAR - 4000 HOUR
PREMIER WARRANTY COVERAGE AND A
5 YEAR - 4000 HOUR TEC SERVICE
CARE PROGRAM *

* TEC does not charge any TRAVEL TIME or
Mileage on A* WARRANTY CLAIM *

BID SPECIFICATIONS FOR 100 HP HYDROSTATIC BULLDOZER – OPTION D

GENERAL

These specifications shall be construed as the minimum acceptable standards for a 100 hp hydrostatic low ground pressure bulldozer. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The bulldozers must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

The use of specific names and numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the Bid Submittal Form included in the invitation to bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

BID PRICE

The price bid shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

Each unit shall be provided with one (1) copy of the operator's manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs to its machine.

WARRANTY

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes ☒ No ☐
Page#
or
Attachment ☒

ENGINE

Shall be a turbocharged diesel engine with a displacement of not less than **199 cubic inches**, capable of developing a minimum of **105 net** flywheel horsepower (SAE J1349).

Yes ☒ No ☐
Page # 14

Engine shall be manufactured by the equipment manufacturer.

Yes ☒ No ☐
Page # 14

WEIGHT

Operating weight with blade, operator, full fuel tank, and ROPS canopy shall not be less than **22,800 lbs.**

Yes ☒ No ☐
Page # 14

Minimum Ground Clearance shall be 15 inches

Yes ☐ No ☐
Page # 15

ELECTRICAL SYSTEM

Shall be equipped with a minimum **85-amp** alternator.

Yes ☒ No ☐
Page # 16

TRANSMISSION

Shall be equipped with a hydrostatic type transmission.

Yes ☒ No ☐
Page # 14

STEERING

All steering functions must be able to be performed using one hand only.

Yes ☒ No ☐
Page # 14

UNDERCARRIAGE

The tractor shall be equipped with sealed and lubricated tracks. Minimum shoe width shall be **27.5 inches**. Track sag shall be hydraulically adjusted.

Yes ☒ No ☐
Page # 14

BLADE

The machine shall be equipped with a six-way (pat) blade with a minimum capacity of **3.14 cubic yards**. And a minimum blade width of **128 inches**.

Yes ☒ No ☐
Page # 15

VANDALISM PROTECTION

Machine shall be equipped with all standard and optional factory vandalism protection available for the machine bid.

Yes ☒ No ☐
Page # 16

Hydraulics

Minimum pump flow shall be **26 gpm** and minimum system pressure of **3900 psi**.

Yes ☒ No ☐
Page # 15

SAFETY EQUIPMENT

Gauges and indicators shall be provided to monitor critical (fuel level, coolant temperature, powertrain oil temperature, and hydraulic oil temperature) operational systems of the machine and alert the operator when potential problems occur.

Yes ☒ No ☐
Page # 11 / 3

Rear view mirror; backup alarm.

Yes ☒ No ☐
Page # 9 / 16

Heavy duty hinged radiator guard

Yes ☒ No ☐
Page # 16

Crankcase guard

Yes ☒ No ☐
Page # 16

Track center guiding guard

Yes ☒ No ☐
Page # 14 / 15

Pre-cleaner guard

Yes ☒ No ☐
Page # 16

Front tow hooks

Yes ☒ No ☐
Page # 16

Heavy duty rear drawbar

Yes ☒ No ☐
Page # 16

Fire extinguisher

Yes ☒ No ☐
Page # SUPPLIED BY DEALER

Water separator

Yes ☒ No ☐
Page # 16

INVITATION TO BID HEAVY EQUIPMENT

NOTICE OF BID OPENING

NOTICE IS HEREBY GIVEN that the Association of County Commissions of Alabama, which administers the Alabama County Joint Bid Program on behalf of Alabama's county governing bodies, shall receive and open bids for the purchase of zero (0) or more items of heavy road equipment at its office located at 2 North Jackson Street, Montgomery, Alabama, at **10:00 a.m. on Friday, October 27, 2023**. Bid specifications are available at <http://www.alabamacounties.org/heavy-equipment/> for each of the following items:

Backhoes
Track Mount Excavators
Compact Track Mount Excavators
Mini Track Excavator
Wheeled Excavators
Highway Speed Truck Excavators
Motorgraders
Heavy Duty Hydrostatic Bulldozers
Mulching Dozer
Wheel Loaders
Heavy Duty Dump Chassis'
Lowboy Tractors
Skid Steer Attachments

Asphalt Milling Attachments
Ride-on Industrial Boom Mowers
Rubber Tire Roller
7.5 Ton Single Drum Vibratory Roller
One-man Pothole Patchers
Trailer Mounted Patchers
Trailer Mount Mastic Patcher/Crack Sealer
Asphalt Storage Tanks
Half Round End Dump Trailer
Lowboy Trailers
Dump Bodies (Automatic and Manual)

Time is of the essence in submitting bids and only bids received in the Association office by 10:00 a.m. Central Time on Friday, October 27, 2023 will be opened and considered. Bidders and any other interested individuals are invited to attend the bid opening.

NOTICE OF BID OPENING PROCEDURES

All bids for **Heavy Equipment** will be opened and the name(s) of the bidders read aloud on the morning of the bid opening on Friday, **October 27, 2023 at 10:00 a.m.** at 2 North Jackson Street, Montgomery, AL. The specifics of each bid submitted will be compiled by the Association staff thereafter and will be available, **upon written or emailed request**, one week after the bid opening. Requests should be emailed to jointbid@alabamacounties.org.

THE INVITATION PACKAGE

The invitation package for each item to be bid includes: this invitation to bid, the written bid specifications for the particular item of heavy road equipment, and a Bid Submittal Form to be used in submitting a bid for that particular item. Bidders should verify that they have received all pages of the invitation package. If there are any omissions, the bidder should contact Kenya Howard in the Association office by mail, fax, or e-mail (jointbid@alabamacounties.org) to request missing pages. It is the responsibility of the bidder to make this request in sufficient time to prepare and submit the bid in time for the bid opening. Bidders should carefully read and comply with all parts of the invitation package, including all attachments and/or any addendum.

PREPARING AND SUBMITTING BIDS

All bids must be typed or hand written in ink on the attached Bid Submittal Form. **The completed Bid Submittal Form shall be placed in front of and separated from all other documents included in the bid packet, such that it will be the first document viewed upon opening the bid packet.**

Bids submitted in pencil and bids not submitted on the Bid Submittal Form will **not** be considered. All bids shall include a current catalog or model specification document for the equipment model number being offered for consideration. Bids submitted without such documentation will **not** be considered. Only information contained on the attached Bid Submittal Form and in the model specification document will be considered in evaluating bids.

Each separate requirement in the bid specification includes a block for indicating whether or not the item bid meets the specification. The bidder shall indicate compliance with each requirement by checking "Yes" or "No" in the block to the right of each bid specification. In addition, the bidder shall indicate the page number in the supplied manufacturer's equipment literature on which compliance with the specification can be verified. Failure to complete this portion of the bid form may result in the subject bid not being considered. Additionally, all bidders are required to submit a factory build/order sheet showing all of the standard and option items for each piece of equipment bid in order to assist the bid review committee in assuring that each bid is in conformance with the required bid specifications.

Each bid for one of the heavy equipment items included in the bid package must be submitted on the Bid Submittal Form for that item and forwarded in a separate envelope with the bid item and item number clearly identified on the outside of the envelope. Envelopes containing a "no bid" shall also include the words "NO BID" on the outside of the envelope. Facsimiles and e-mails will not be accepted. Bids submitted by "Express/Overnight" services must be in a separate inner envelope or package sealed and identified as stated above. All bids must be received in the Association office prior to the bid opening. Bids received after the deadline will be returned unopened.

The County Joint Bid Program reserves the right to require a performance bond from successful bidders as permitted under Alabama law. However, **no bid bond is required for this bid offering.**

All bids should be mailed or hand-delivered to:

**ATTN: Joint Bid Program
Association of County Commissions of Alabama or ACCA
2 North Jackson Street, FL 7, Montgomery, Alabama 36104 (Physical Address)
P.O. Box 5040, Montgomery, Alabama 36103 (Mailing Address)**

BID SPECIFICATIONS

Please note that each piece of heavy equipment available for bid may include several different sizes and categories of machines. You should read each set of specifications very carefully as the differences vary depending upon the piece and size of equipment.

Where applicable, each bid submission shall include the separate cost of each item listed in the "Options" section of the bid specifications. However, all bids will be awarded on the basis of the **total cost of the machine with all options included**. Therefore, the "Bid Price" stated on the Bid Submittal Form must be the total cost, including the cost of all options.

Once the bids have been awarded, any county participant purchasing under this program may, at its discretion, deduct one or more of the options set out in the bid specifications, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

Any use of specific names and/or model numbers in the attached specifications is not intended to restrict the bidder or any seller or manufacturer, but is included solely for the purpose of indicating the type, size, and quality of materials, product services, or equipment considered best adapted to the use of the counties participating in the joint bid program.

BIDDER QUALIFICATIONS

All bidders and all program participants must be in compliance with any applicable federal, state, county and municipal laws, regulations, resolutions and ordinances, including but not limited to, licensing, permitting, and taxation requirements. All bidders should be prepared to submit evidence or documentation as proof that they are properly licensed and permitted under any applicable laws upon request. Such evidence or documentation may be submitted with the bid. Additionally, all bidders shall provide proof that they are in compliance with the e-verify requirements of Alabama's Immigration Law (Ala. Code § 31-13-1 et seq., as amended by Act No. 2012-491).

BID AWARD

The Houston County Commission will serve as the awarding authority for all bids and will award all contracts at a regular meeting of the Houston County Commission. Any and all bids submitted in compliance with this invitation to bid shall be considered, and award will be made to the lowest responsible bidder meeting bid specifications as determined by the awarding authority in compliance with Alabama law. All bids will be reviewed and evaluated by a committee created for that purpose, which committee will make comments and recommendations to the awarding authority regarding the award. All factors contained in each invitation package will be evaluated in determining the successful bidder, and any omissions of the stated requirements may be cause for rejection of the bid submitted. The awarding authority reserves the right to reject any and all bids, to waive any informality in bids, and to accept in whole or in part such bid or bids solely at its discretion.

The contract period will be one year with an option to renew for a second and third year under identical price, terms, and conditions upon the mutual consent of the vendor and the awarding authority. Any renewal contract shall be approved in writing by the vendor and the awarding authority no later than 90 days prior to the expiration of the existing contract.

CONTACT REGARDING BIDS AND INVITATION

Contact initiated by a potential bidder with any county official, county employee, or member of the Association staff shall only be as specifically set out in this Invitation to Bid. Any questions related to the bid or the County Joint Bid Program shall be directed to Association staff in writing under the procedures set out in this Invitation to Bid. Additionally, a bidder may contact the Association in writing to request an appointment to review bid specifications following the bid opening. **However, there shall be no communication with any county official or county employee regarding this bid between the date of this invitation and the date of bid award.** Any contact other than as set out here shall be deemed as an attempt to unduly influence the bid award, and shall be grounds for rejection of the bid submitted by the bidder initiating such other contact.

Any questions or problems related to downloading or obtaining copies of this Invitation to Bid should be directed to **Kenya Howard** at jointbid@alabamacounties.org or **334-263-7594**.

Any other questions or requests for additional information regarding this invitation or the bid specifications shall be submitted **in writing** no later than five (5) days prior to bid opening to:

Patrick McDougald
Association of County Commissions of Alabama
P.O. Box 5040
Montgomery, Alabama 36103
E-mail: pattymackdaddy@gmail.com

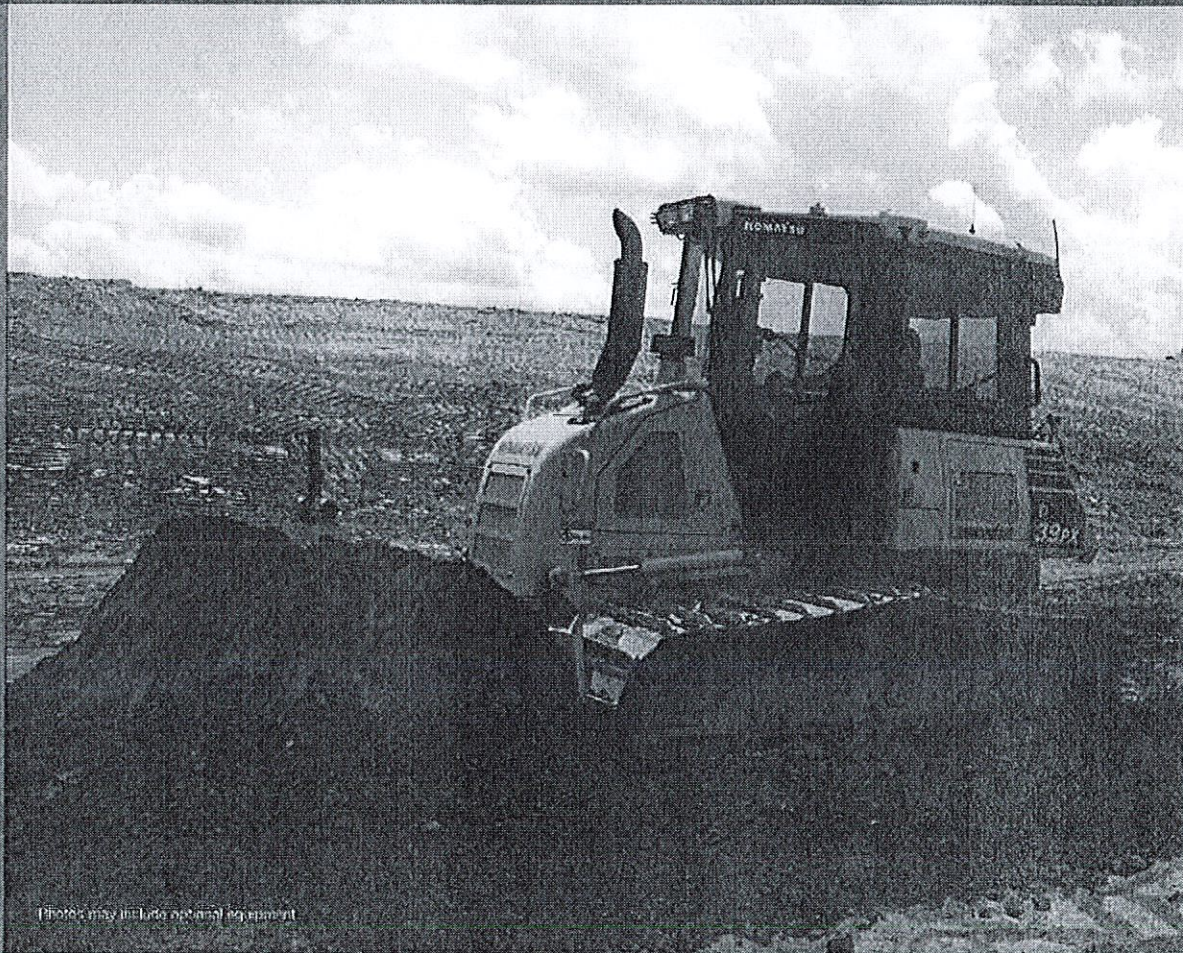
KOMATSU®

D39EX-24 **D39PX-24**

Tier 4 Final Engine

CRAWLER DOZER

D39



(Dozer may include optional equipment)

NET HORSEPOWER

105 HP @ 2200 rpm
78 kW @ 2200 rpm

OPERATING WEIGHT

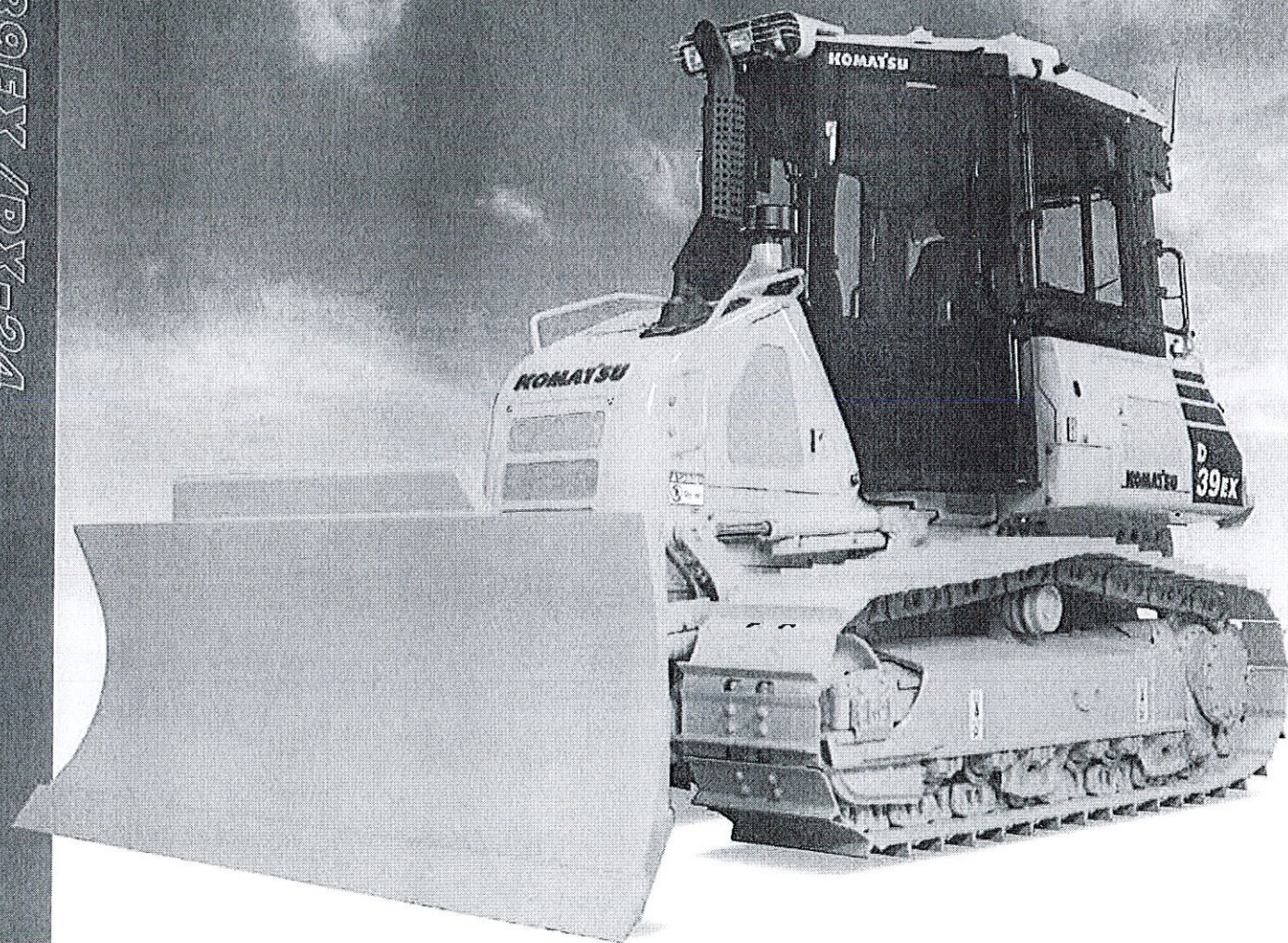
D39EX-24: 21,891 lb 9930 kg
D39PX-24: 22,817 lb 10350 kg

BLADE CAPACITY

Power Angle Tilt (PAT) Dozer:
D39EX-24: 2.89 yd³ 2.21 m³
D39PX-24: 3.14 yd³ 2.40 m³

WALK-AROUND

D39EX/PX-24



Photos may include optional equipment.

NET HORSEPOWER

105 HP @ 2200 rpm
78 kW @ 2200 rpm

OPERATING WEIGHT

D39EX-24: 21,891 lb 9930 kg
D39PX-24: 22,817 lb 10350 kg

BLADE CAPACITY

Power Angle Tilt (PAT) Dozer:
D39EX-24: 2.89 yd³ 2.21 m³
D39PX-24: 3.14 yd³ 2.40 m³



OUTSTANDING PRODUCTIVITY & FUEL ECONOMY

Power and Economy modes:

Power mode provides full power when needed. Use Economy mode for light dozing and extra fuel economy.

Precise engine and efficient hydrostatic pump control technology improves operational efficiency and lowers fuel consumption.

SAA4D95LE-7 variable flow turbocharged and aftercooled 3.26 liter diesel engine provides excellent fuel economy. This engine is EPA Tier 4 Final emissions certified.

Water Cooled Variable Flow Turbocharger uses a simple valve to provide optimum air flow under all speed and load conditions.

Komatsu Diesel Oxidation Catalyst (KDOC) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx using passive regeneration 100% of the time. No active or manual regeneration is required.

New Komatsu Auto Idle Shutdown helps reduce excessive idle time.

Rear view monitoring system (standard)

Advanced diagnostic system continuously monitors machine operation and vital systems to identify machine issues, assists with troubleshooting, and minimizes down time.

Single pedal can act as either brake or decelerator.

Efficient Cooling System:

- Electronically controlled, hydraulically-driven fan is manually reversible
- Rear hinged radiator guard with gas assisted lift cylinders, opens easily for cleaning
- Side-by-side coolers provide single plane to reduce chances of plugging

The **KOMTRAX®** telematics system is standard on Komatsu equipment with no subscription-fee's throughout the life of the machine. Using the latest wireless technology, **KOMTRAX®** transmits valuable information such as location, utilization, and maintenance records to a PC or smart-phone app. Custom machine reports are provided for identifying machine efficiency and operating trends. **KOMTRAX®** also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

New Operator Identification System (standard) can be monitored through **KOMTRAX**

Integrated ROPS cab features:

- Large, quiet, pressurized cab
- Exceptional visibility with super slant nose design and integrated ROPS structure
- Heated air-ride seat with high capacity suspension (standard)
- Standard aux jack and (2) 12V power converters
- Bluetooth radio and LED worklights

Improved durability:

- Heavy-plate steel used for nose and tanks
- Dozer frame with full steel castings
- Komatsu designed and manufactured components



Photos may include optional equipment.

Self-adjusting idler support provides constant and even idler tension, reducing vibration and increasing undercarriage life.

Parallel Link Undercarriage System (PLUS) provides up to double the wear life and lowers repair and maintenance costs compared to a standard undercarriage design.

New Triple Labyrinth Final Drive provides additional protection for the final drive floating seals.

Power Angle Tilt (PAT) dozer with manually adjustable blade pitch increases productivity in a variety of applications.

- Three mounting locations for grade control masts

Complete operator blade control:

- Palm Command Control System (PCCS)
- Electronic Proportional Control (EPC)
- Adjustable Quick shift and Variable shift modes
- Blade angle switch
- New three blade control settings
- Up to 5 individual operator memory settings

Efficient Hydrostatic Transmission with electronic control:

- Customizable quick shift (3 speed) settings for the operator
- Variable speed selection (20 speeds)
- Low speed matching technology (larger displacement pumps/efficient engine speed)
- HST control system reduces fuel consumption

Large color monitor:

- Easy-to-read and use large 7" high-resolution multi-color LCD monitor
- Ecology guidance
- Easy-to-use onboard diagnostics that don't require a laptop
- Real-time DEF monitoring so the operator can see actual DEF levels

Convenient shovel holder (standard)

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

Komatsu's New Emission Regulations-compliant Engine

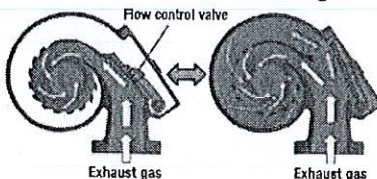
New regulations effective in 2014 require the reduction of NOx emissions. In addition to refining the U.S. EPA Tier 4 Interim technologies, Komatsu developed a new Selective Catalytic Reduction (SCR) device in-house.

- 1 Komatsu Diesel Oxidation Catalyst (KDOC)
- 2 Variable flow turbocharger
- 3 Komatsu Closed Crankcase Ventilation (KCCV)
- 4 SCR

Technologies Applied to New Engine

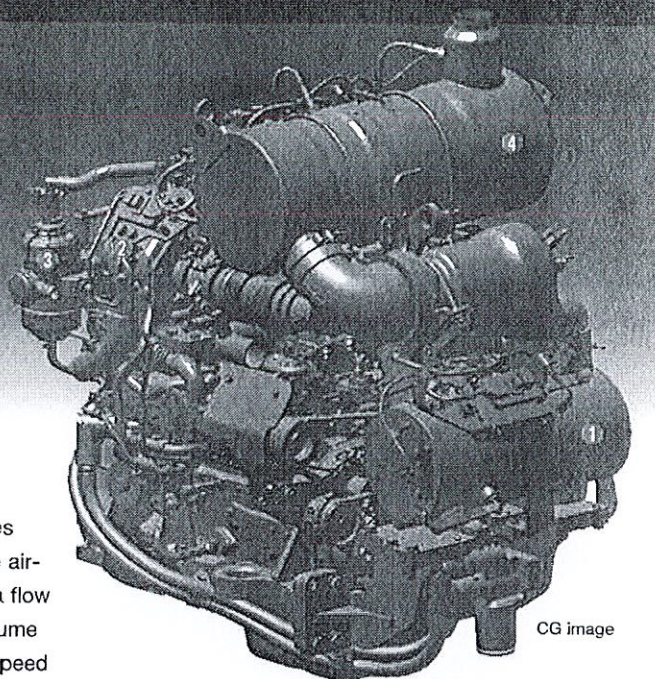
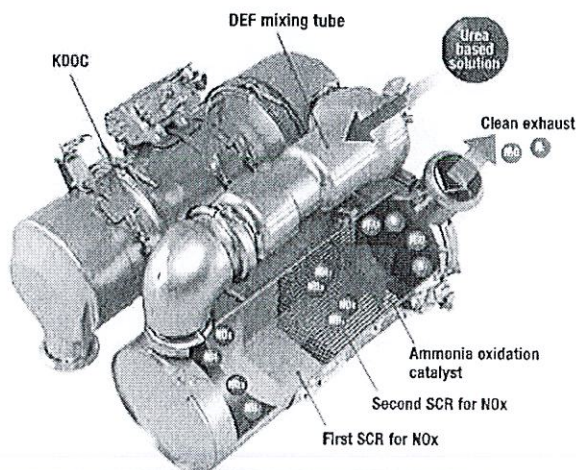
Water cooled variable flow turbocharger

A newly designed variable flow turbocharger features simple and reliable technology that varies the intake air flow. Exhaust turbine wheel speed is controlled by a flow control valve that enables delivery of an optimal volume of air to the engine combustion chamber under all speed and load conditions. The result is cleaner exhaust gas while maintaining power and performance.



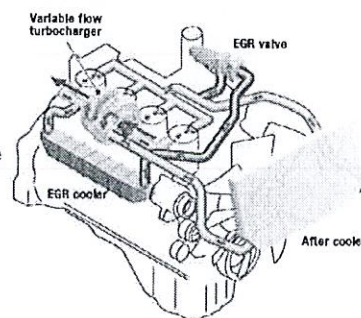
Heavy-duty aftertreatment system

This new system consists of a KDOC and a SCR. The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water (H₂O) and nitrogen gas (N₂).



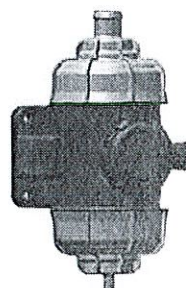
Cooled Exhaust Gas Recirculation (EGR)

Cooled EGR, a technology well-proven in existing Komatsu engines, reduces NOx emissions. These components ensure reliable performance during the demanding work conditions of construction equipment.



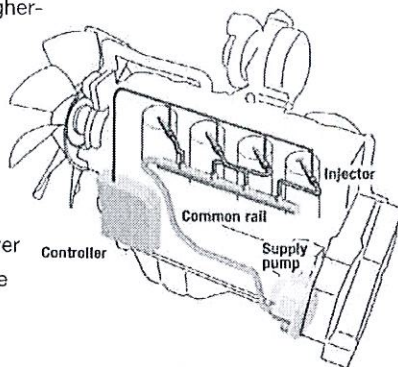
Komatsu Closed Crankcase Ventilation (KCCV)

Crankcase emissions (Blowby gas) are passed through a KCCV filter. The KCCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil mist free, is fed back to the air intake.



Heavy-duty High Pressure Common Rail (HPCR) fuel injection system

The system is designed to achieve an optimal injection of high-pressure fuel by means of computerized control, thereby bringing close to complete combustion to reduce Particulate Matter (PM) emissions. While this technology is already used in current engines, the new system uses higher-pressure fuel injection, thereby reducing both PM emissions and fuel consumption over the entire engine power range.



Advanced electronic control system

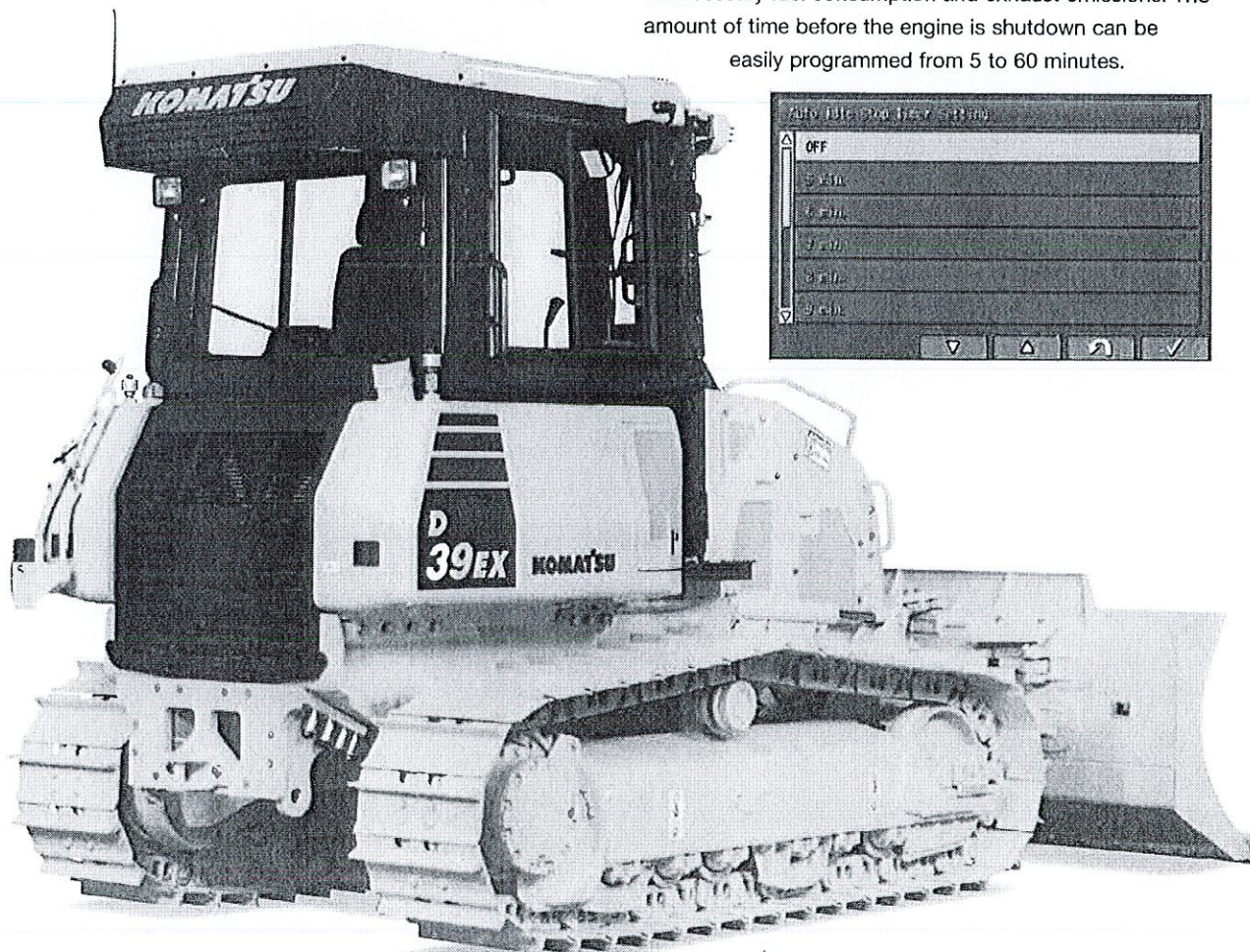
The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle and engine. This ensures total control of the equipment under all conditions. Engine condition information is displayed via an on-board network on the monitor inside the cab. Furthermore, KOMTRAX helps customers use this information to keep up with maintenance needs.

Redesigned combustion chamber at top of piston

The combustion chamber at the top of the piston has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption and noise.

Auto Idle Shutdown Function

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The amount of time before the engine is shutdown can be easily programmed from 5 to 60 minutes.

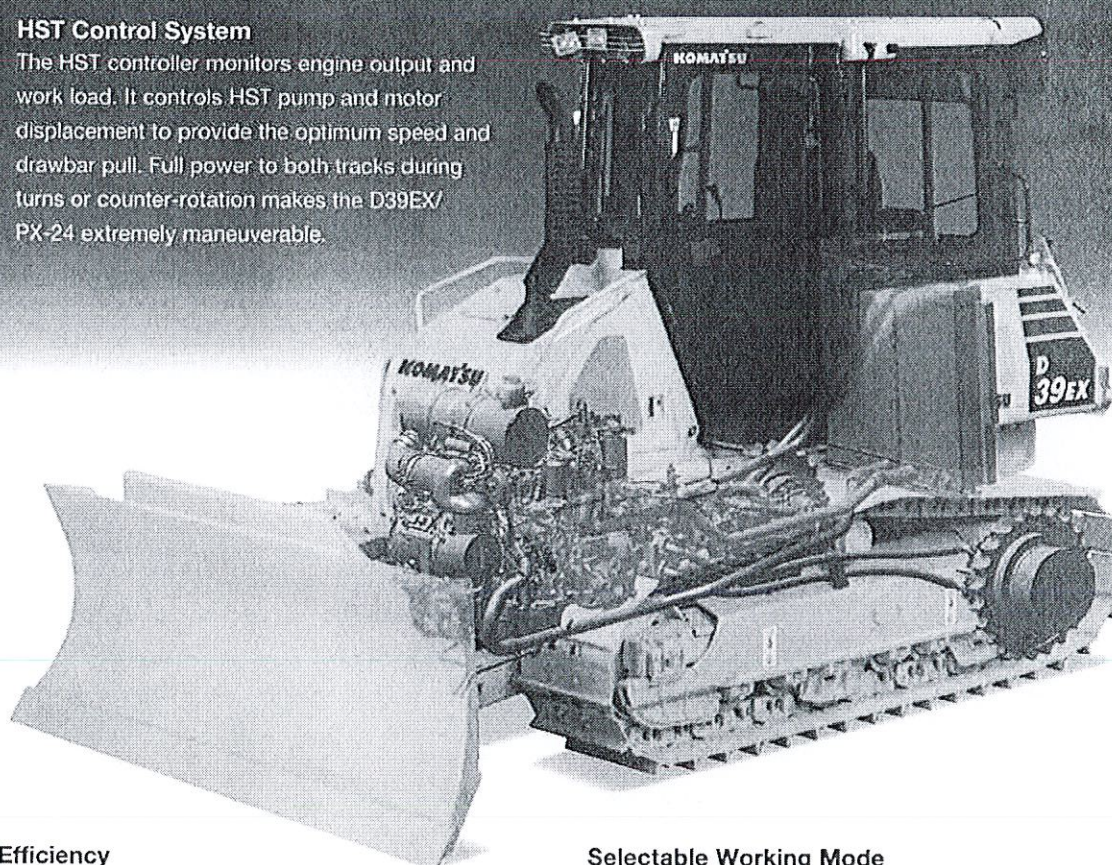


PRODUCTIVITY & FUEL ECONOMY FEATURES

HYDROSTATIC TRANSMISSION (HST) CONTROL SYSTEM

HST Control System

The HST controller monitors engine output and work load. It controls HST pump and motor displacement to provide the optimum speed and drawbar pull. Full power to both tracks during turns or counter-rotation makes the D39EX/PX-24 extremely maneuverable.



Fuel Efficiency

The efficient HST control system can reduce fuel consumption.

Fuel consumption reduced by up to 5%

Compared with D39EX/PX-23 in P mode
Based on typical work pattern collected via KOMTRAX

Hydraulically Driven Cooling Fan

The engine cooling fan's speed is electronically controlled. Fan speed depends on engine coolant and oil temperatures. The fan will only rotate as fast as is necessary to adequately cool the machine's fluid. This system increases fuel efficiency, reduces operating noise levels and requires less horsepower than a belt-driven fan.

Long Track-On-Ground and Oscillating Track Frame

Long machine track-on-ground and oscillating track frames improve stability and grading/dozing performance.

Selectable Working Mode

P mode is the mode designed for powerful operation and maximum production. E mode is designed for general dozing applications, providing adequate speed and power, while saving energy. For fuel reduction and energy savings, the monitor panel allows the operator to easily switch between working modes, depending on working conditions.

P mode (Power mode)

With P mode, the engine outputs its full power, allowing the machine to perform work requiring large production, heavy-load, and uphill work.

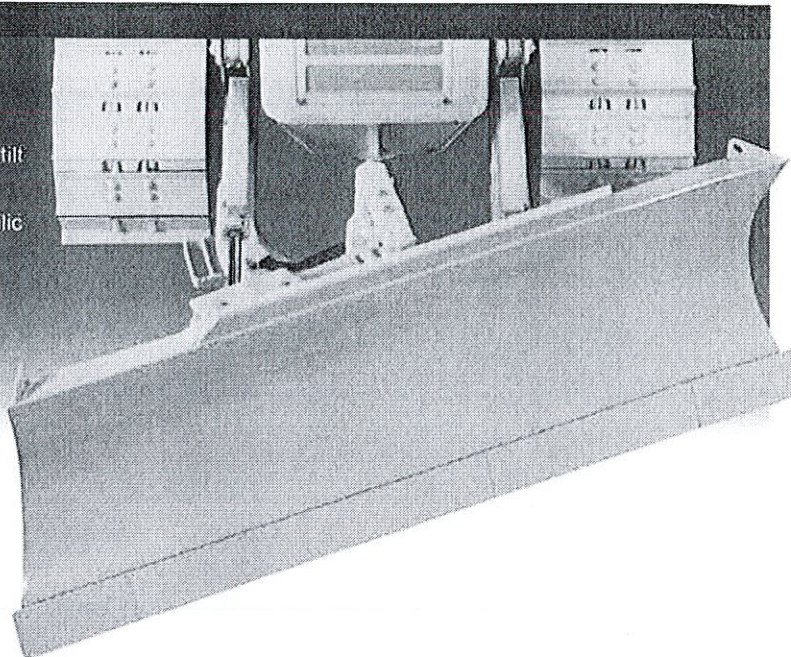
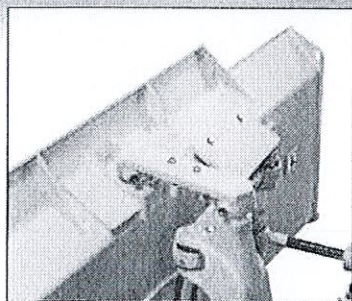
E mode (Economy mode)

With E mode, the engine outputs enough power for the work without delivering unnecessary power. This mode enables energy saving operation and is ideal on hard or rough surfaces that often cause shoe slip and work not requiring as much power, such as downhill dozing, leveling and light-load work.

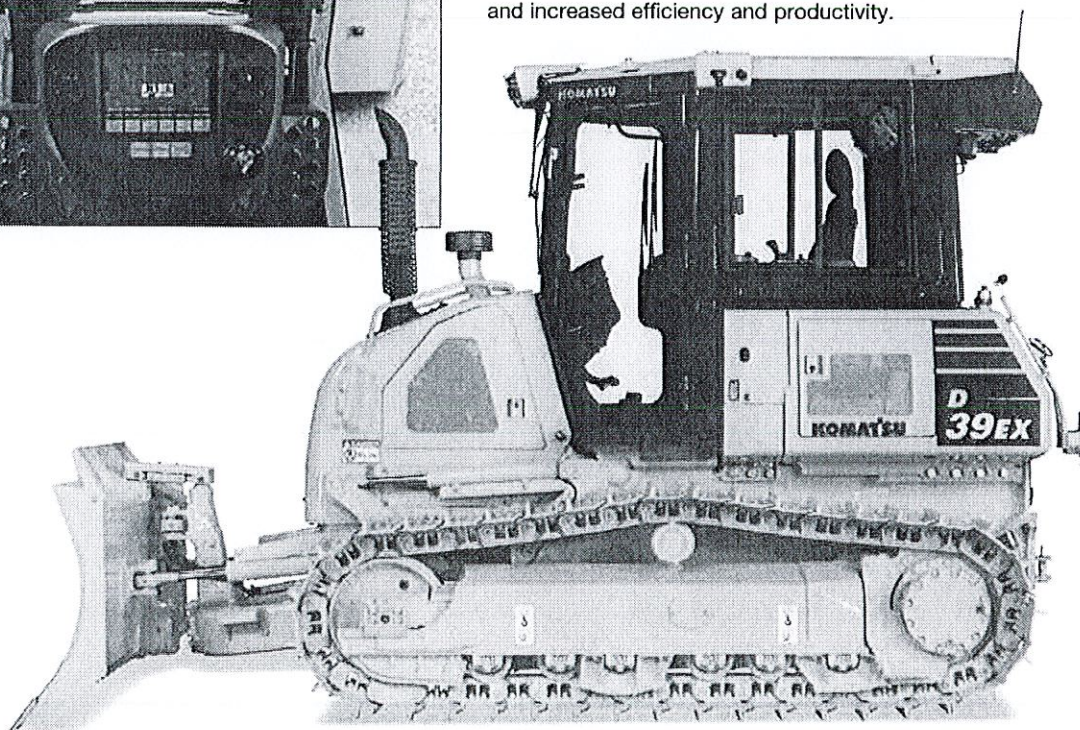
D39EX/PX-24

PAT DOZER**Moldboard PAT Dozer with Adjustable Pitch**

A high wear-resistant power angle, power tilt dozer blade with adjustable blade pitch is available on the D39EX/PX-24. The hydraulic blade tilt and angling function expands versatility and productivity in a variety of applications.

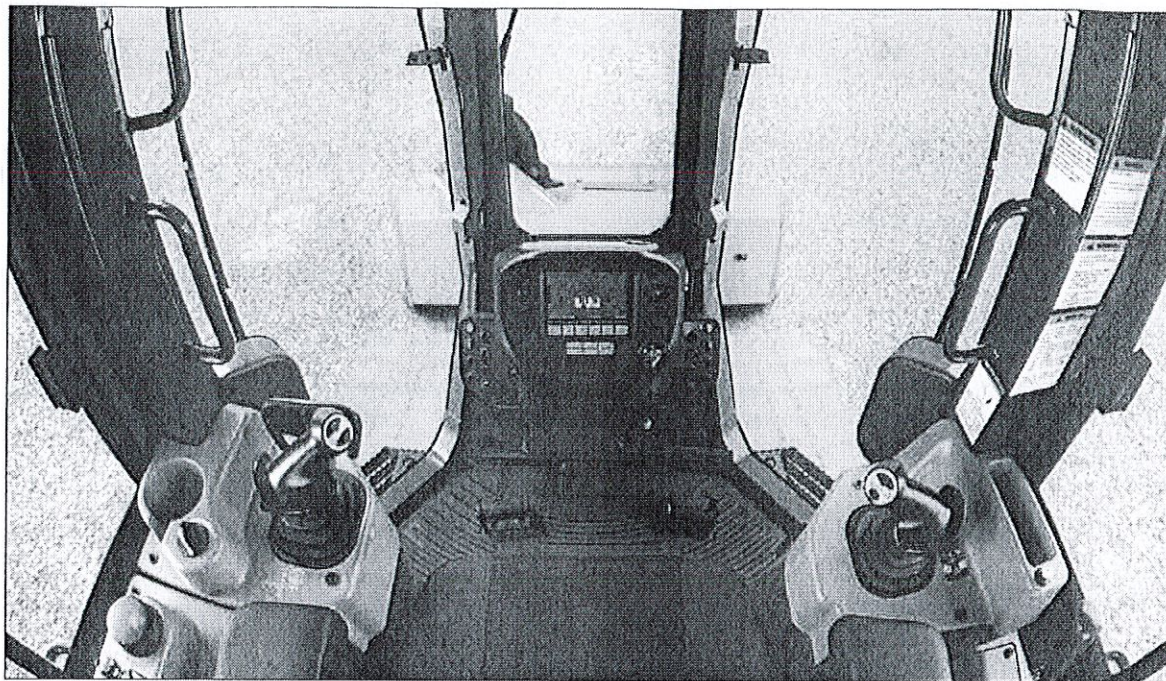
**Unrivalled Blade Visibility**

The D39EX/PX-24 incorporates Komatsu's super-slant nose design. Komatsu's innovative design provides excellent blade visibility for improved machine control and increased efficiency and productivity.



CONTROL FEATURES

D39EX/PX-24

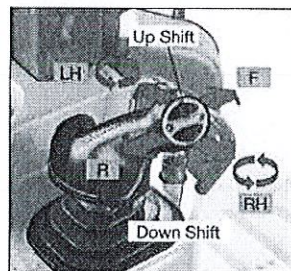


Palm Command Control System (PCCS) Levers

Komatsu's ergonomically designed PCCS handles create an operating environment with complete operator control.

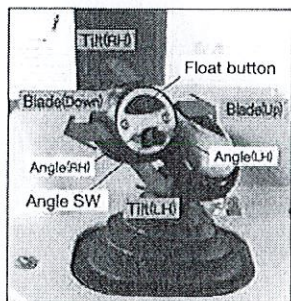
PCCS

The low-effort PCCS joystick controls all directional movements, including machine travel speed as well as counter-rotation.



Electronic controlled hydraulic system

Electronic controlled palm commanded joystick provides precise blade control. New blade angling switch operation provides easier and predictable blade control.



HST with Electronic Control

The D39EX/PX-24 is equipped with Komatsu-designed HST that allows for Quick-Shift or variable speed selection. The HST consists of dual-path closed-circuits, with two variable displacement piston pumps and two variable displacement travel motors. Hydrostatic steering eliminates steering clutches and brakes, providing smooth, powerful turns. Fully electronic control provides complete automatic shifting and enables smooth control. Engine speed is controlled using an electronic fuel control dial.

One-Pedal Design (Decelerator/Brake Pedal) Controls Speed, During Operation

Machine operation is simple because brake function has been integrated into the decelerator pedal. Machine travel speed can be controlled using one pedal. The pedal function can be changed by a mode selector switch.

Decelerator mode: The pedal modulates engine rpms and vehicle travel speed. It can be used for all applications.

Brake mode: The pedal modulates vehicle travel speed while maintaining high-engine speed. This mode can be helpful to maintain work-equipment speed, while using the brake function.



WORKING ENVIRONMENT

Integrated ROPS (ISO 3471) Cab

The D39EX/PX-24 has an integrated ROPS (ISO 3471) cab. High rigidity and superb sealing performance sharply reduce noise and vibration for the operator and discourage dust from entering the cab. In addition, side visibility is increased because external ROPS (ISO 3471) structure and posts are not required.



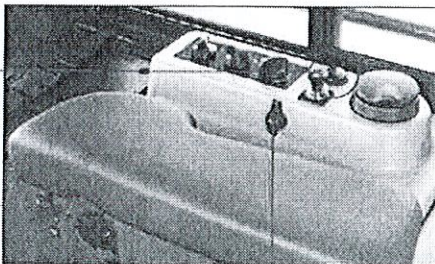
Comfortable Ride with Cab Damper Mounting

The D39EX/PX-24's cab mount uses a cab damper system that provides excellent shock and vibration absorption which conventional mounting systems are unable to match. The silicon-oil-filled cab damper mount helps to isolate the cab from the machine body, suppressing vibration and providing a quiet, comfortable operating environment.

Auxiliary Input Jack & Two DC12 Volt Electrical Outlets

By connecting an auxiliary device to this plug input, the operator can play audio from a mobile device through the machine's sound system. Two DC12 volt electrical outlets can be used as a power source for radio equipment or others. One DC24 volt cigarette lighter.

Two DC12 V
electrical
outlets



Auxiliary input jack

Comfortable Ride with Heated Operator Seat

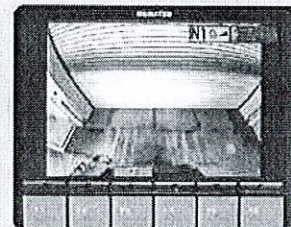
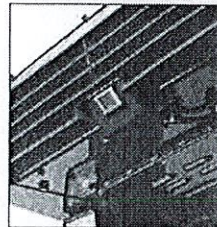
The operator seat has adjustable lumbar support, tilt and an electric heater. It is easy to adjust to the operator's shape and comfortable operation is possible in a variety of conditions. Also, the seat heat makes it possible to work comfortably in the winter.



ADDITIONAL OPERATOR CONVENIENCE EQUIPMENT

Rear view monitor system

On the large LCD color monitor, the operator can view, through one camera, areas directly behind the machine. This camera can be synchronized with reverse operation.



Secondary engine shutdown switch

A new secondary switch has been added at the side of the front console to shut down the engine in an emergency.

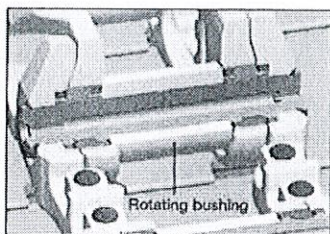
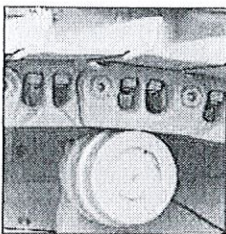


RELIABILITY & MAINTENANCE FEATURES

Excellent Reliability & Durability

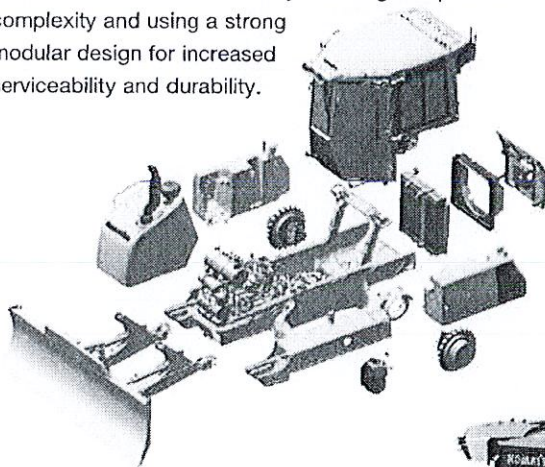
Parallel Link Undercarriage System (PLUS)

Komatsu's PLUS rotating bush design provides less downtime, longer wear, and with up to 40% lower undercarriage maintenance costs. Rotating bushings eliminate the cost and downtime for bushing turns, and strengthened rollers and links increase wear life up to two times. With PLUS, individual links can be replaced with common track tools.



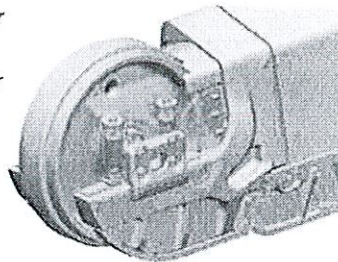
Modular design

One of the design goals behind the creation of the D39EX/PX-24 was to manufacture a more durable machine. This was achieved by reducing component complexity and using a strong modular design for increased serviceability and durability.



Self-adjusting idler support

The self-adjusting idler support provides constant and even tension on idler guide plates, reducing noise and vibration and increasing undercarriage life.

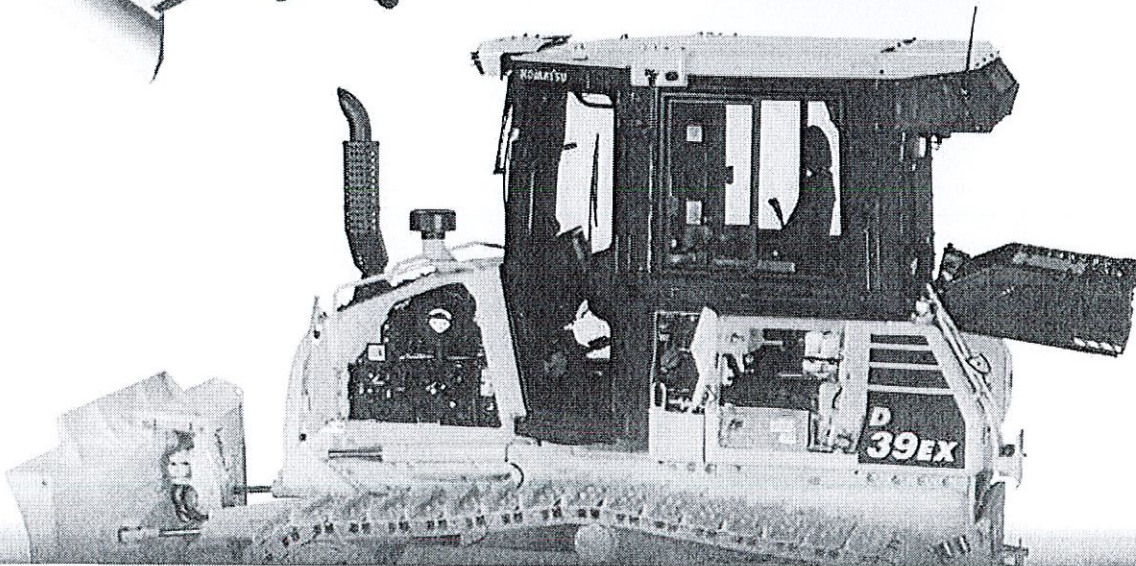
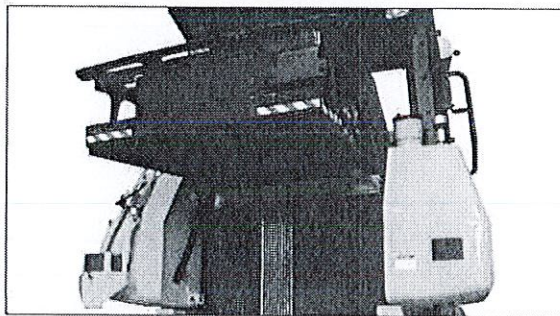


Easy Maintenance

Planned maintenance and daily checks are the only way to ensure long service life from equipment. That's why Komatsu designed the D39EX/PX-24 with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Rear, hydraulically-driven, swing-up fan

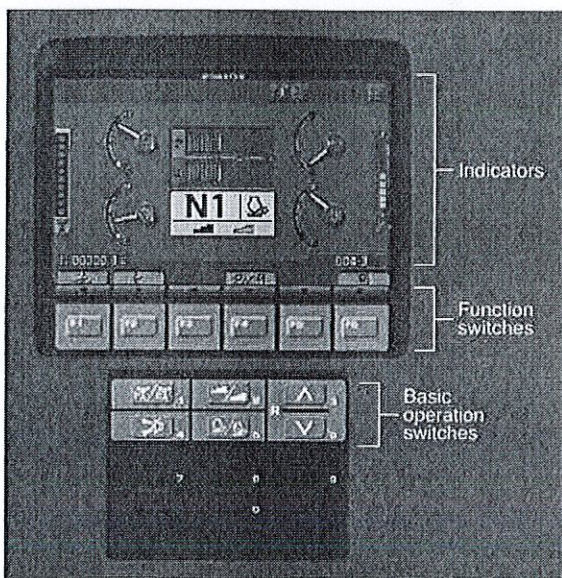
The D39EX/PX-24 utilizes a swing-up fan with a gas strut-assisted lift system to provide easy access to the (side-by-side) radiator, oil cooler and charge air cooler. The hydraulic fan has a cleaning mode which enables the fan to rotate in the reverse direction to help clear off objects that are restricting air flow.



TECHNOLOGY FEATURES

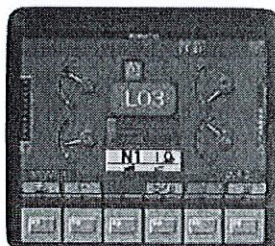
Large Multi-Lingual High Resolution LCD Monitor

A large, user-friendly color monitor provides easy-to-understand information for the operator. Excellent screen visibility is achieved with a high resolution LCD monitor that is easy to read at various angles and lighting conditions. Simple and easy-to-operate switches and function keys facilitate multi-function operations. The monitor displays data in 26 languages.



Multi-monitor with Troubleshooting Function to Minimize Down Time

Various meters, gauges and warning functions are centrally arranged on the multi-monitor. The monitor simplifies start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities occur. In addition, warning indicators are displayed in 4 levels to alert the operator of potential issues. Replacement times for required PM services are also indicated.



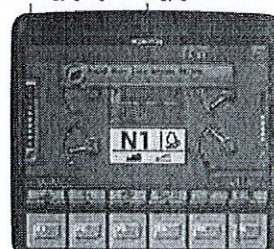
Energy Saving Operation

Ecology guidance

In order to support efficient operation, the following four messages are displayed for fuel saving operation. These can be displayed by the operator, if desired.

- 1) Avoid Excessive Engine Idling
- 2) Use Economy Mode to Save Fuel
- 3) Avoid Hydraulic Relief Pressure
- 4) Avoid Over Load

Ecology gauge Ecology guidance



Fuel consumption display

Ecology gauge

To help the operator to perform in an environmentally friendly way and minimize energy consumption, an easy-to-read "Ecology gauge" is displayed on the left of the multi-monitor screen.

Fuel consumption display

Average fuel consumption during the day is displayed and updated every 10 seconds.

Ecological Operation Report for Assistance

KOMTRAX is Komatsu's remote equipment and fleet monitoring system. Wireless technology and a secure web-based application offer the information needed to make the best possible operation and management decisions. From location, actual hours worked and fuel consumption, to maintenance monitoring, abnormality codes and load frequency, operators receive reports that are simple to read and understand. The new D39EX/PX-24 adds the following new information for fuel consumption reduction.

- Guidance to improve fuel consumption
- Ecological operation report.
- Operating hours by operation mode (E or P mode)
- Service information for U.S. EPA Tier 4 Final (regeneration information)

KOMTRAX

Customer Name: [Name] Machine Model: [Model] Machine ID: [ID] Location: [Location]

Operating Hours: [Hours] Fuel Consumption: [Consumption] Average Fuel Consumption: [Average]

Operating Hours by Operation Mode (E or P mode)

Operation Mode	Operating Hours
E (Economy Mode)	[Hours]
P (Power Mode)	[Hours]

Service Information for U.S. EPA Tier 4 Final (regeneration information)

Service Item	Service Interval	Service Due Date
Oil Change	250 Hours	[Date]
Filter Change	500 Hours	[Date]
Water Change	1000 Hours	[Date]

KOMATSU PARTS & SERVICE SUPPORT



KOMATSU CARE®

Program Includes:

*The D39EX/PX-24 comes standard with complimentary factory scheduled maintenance for the first 3 years or 2,000 Hours, whichever comes first.

Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply) Komatsu CARE services are available from every Komatsu Distributor in the U.S. and Canada.

Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary SCR System Maintenance

The D39EX-24 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel exhaust fluid (DEF) system during the first 5 years—no hour limit including:

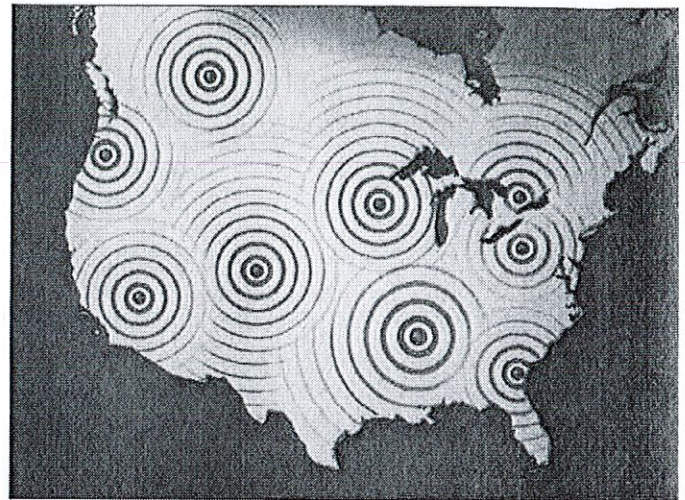
- Factory recommended DEF tank flush and strainer cleaning at 4,500 hours and 9,000 hours

Komatsu CARE® – Advantage Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs

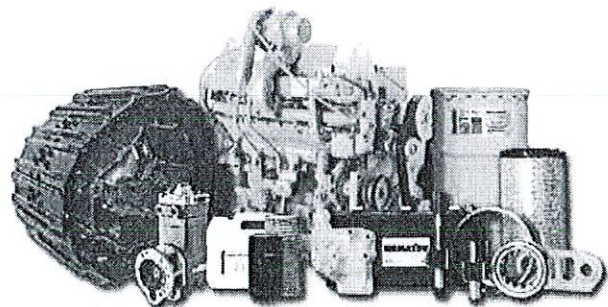


* Some exclusions apply. Please contact your Komatsu distributor for specific program details.



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

D39EX/PX-24

KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH
KOMTRAX®

✓ WHAT

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **lowering owning and operating cost**

✓ WHEN

- Know when your machines are **running or idling** and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance is due** and help you plan for future maintenance needs

✓ WHERE

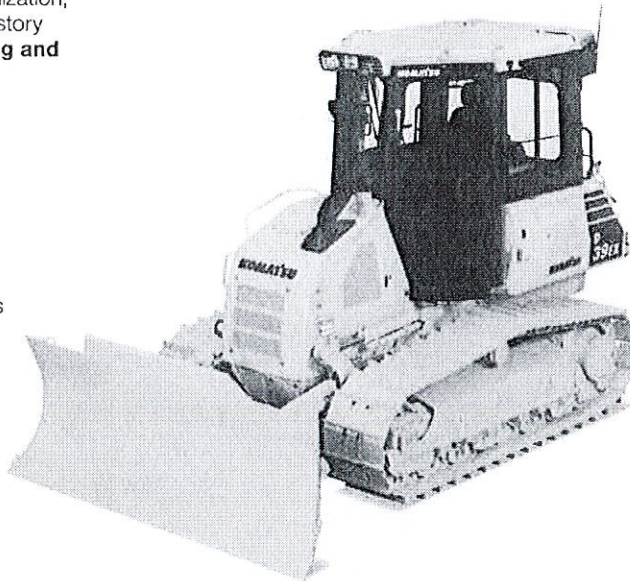
- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ WHO

- KOMTRAX is **standard** equipment on all Komatsu construction products

✓ WHY

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA4D95LE-7* ✓
 Type.....4-cycle, watercooled, direct injection
 Aspiration.....Variable flow, turbocharged,
 air-to-air aftercooled
 Number of cylinders.....4
 Bore x stroke.....95 mm x 115 mm **3.75" x 4.52"**
 Piston displacement.....3.26 ltr **199 in³**
 Governor.....All-speed, electronic
 Horsepower
 SAE J1995.....Gross 79 kW **107 HP**
 ISO 9249 / SAE J1349.....Net 78 kW **105 HP** ✓
 Rated rpm.....2200 rpm
 Fan drive type.....Hydraulic
 Lubrication system
 Method.....Gear pump, force lubrication
 Filter.....Full-flow

*EPA Tier 4 Final emissions certified

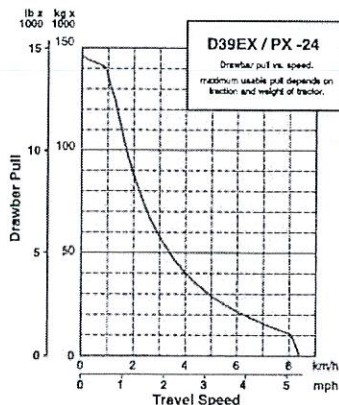


HYDROSTATIC TRANSMISSION ✓

Dual-path, hydrostatic transmission provides infinite speed changes up to 8.5 km/h **5.3 mph**. The variable capacity travel motors allow the operator to select the optimum speed to match specific jobs. Travel control lock lever and neutral switch.

Travel speed (quick shift mode)*	Forward	Reverse
1st	0-3.4 km/h 0-2.1 mph	0-4.1 km/h 0-2.5 mph
2nd	0-5.6 km/h 0-3.5 mph	0-6.5 km/h 0-4.0 mph
3rd	0-8.5 km/h 0-5.3 mph	0-8.5 km/h 0-5.3 mph
Travel speed (variable mode)	Forward	Reverse
	0-8.5 km/h 0-5.3 mph	0-8.5 km/h 0-5.3 mph

*Quick shift speeds are adjustable in the monitor.



FINAL DRIVES

In-shoe mounted, axial-piston-type travel motors, with integrated two-stage planetary gear reduction. Compact, in-shoe mount reduces risk of damage by debris. Bolt-on sprocket ring with triple labyrinth seal design.



STEERING SYSTEM ✓

Palm Command Control System (PCCS) joystick control for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it back reverses the machine. Simply tilt the joystick to the left or right to make a turn. Tilting the joystick fully to the left or right activates counter-rotation.

Hydrostatic Transmission (HST) provides smooth, powerful turns. Fully electronic control enables smooth control that can be adjusted in the monitor. The PCCS utilizes shift buttons to increase and decrease speed. Minimum turning radius*

D39EX-24.....2.2 m **87"**

D39PX-24.....2.4 m **94"**

*As measured by track marks on the ground at pivot turn.



UNDERCARRIAGE

Suspension.....Rigid type
 Track roller frameMonocoque, large section, durable construction
 Rollers & idlers.....Lubricated track rollers

Sealed & lubricated track...Track tension easily adjusted w/grease gun

	D39EX-24	D39PX-24 Narrow	D39PX-24 Wide
Number of track rollers (each side)	6	6	6
Type of shoes (standard)	Single grouser	Single grouser	Single grouser
Number of shoes (each side)	39	39	39
Grouser height	mm In 47 1.9"	47 1.9"	47 1.9"
Shoe width (standard)	mm In 510 20"	635 25"	700 27.5" ✓
Ground contact area	cm² 23919	29782	32970
	in² 3,708	4,616	5,110
Ground pressure	kPa 36.1	30.1	27.4
(with dozer, ROPS cab)	kgf/cm² 0.37	0.31	0.28
(ISO 16754)	psi 5.24	4.39	3.98
Track gauge	mm ft.in 1620 5'4"	1810 5'11"	1810 5'11"
Length of track on ground	mm ft.in 2345 7'8"	2345 7'8"	2345 7'8"



SERVICE REFILL CAPACITIES

Coolant	34 ltr	9.0 U.S. gal
Fuel tank	190 ltr	50.2 U.S. gal
Engine oil	11 ltr	2.9 U.S. gal
Hydraulic tank	64 ltr	17 U.S. gal
Final drive (each side).....	3.5 ltr	0.9 U.S. gal
Diesel Exhaust Fluid (DEF) tank	10 ltr	2.6 U.S. gal



OPERATING WEIGHT (APPROXIMATE)

Tractor weight:

Including ROPS cab, U frame for power angle tilt dozer, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.

D39EX-24 8790 kg **19,379 lb**

D39PX-24 9140 kg **20,150 lb**

Operating weight:

Including Power Angle Tilt dozer, ROPS cab, operator, standard equipment, rated capacity of lubricant, hydraulic control unit, coolant, and full fuel tank.

D39EX-24 9930 kg **21,891 lb**

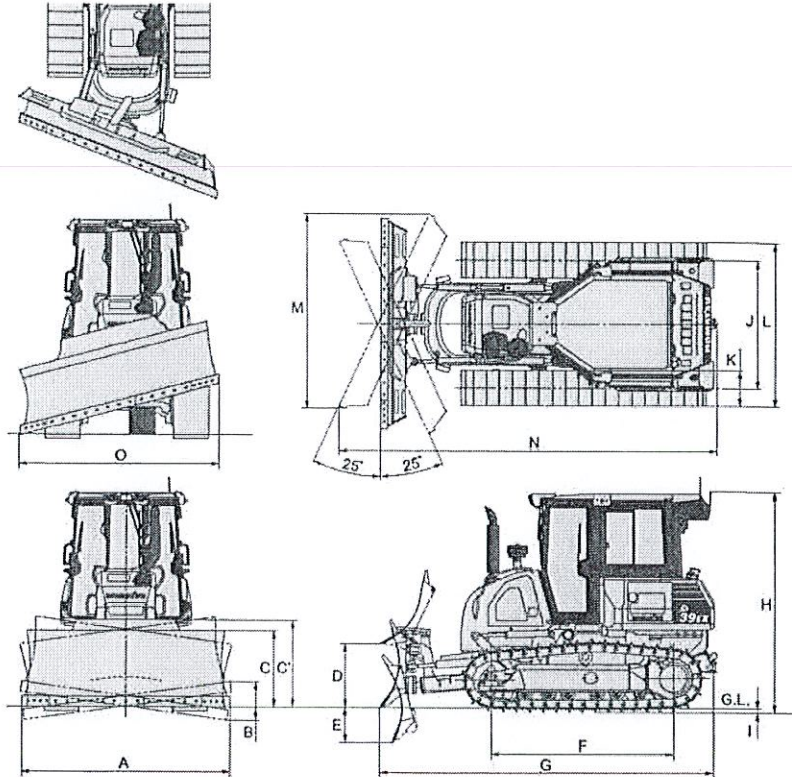
D39PX-24 10350 kg **22,817 lb** ✓



DIMENSIONS

	D39EX-24		D39PX-24	
A	2710 mm	8'11"	3250 mm	10'8"
B	365 mm	1'2"	440 mm	1'5"
C	980 mm	3'3"	910 mm	3'
C'	1120 mm	3'8"	1105 mm	3'7"
D	820 mm	2'8"	820 mm	2'8"
E	440 mm	1'5"	440 mm	1'5"
F	2345 mm	7'8"	2345 mm	7'8"
G	4385 mm	14'5"	4385 mm	14'5"
H	2850 mm	9'4"	2850 mm	9'4"
I	47 mm	1.9"	47 mm	1.9"
J	1620 mm	5'4"	1810 mm	5'11"
K	460 mm	1'6"	635 mm	2'1"
L	2080 mm	6'10"	2445 mm	8'2"
M	2495 mm	8'2"	2990 mm	9'10"
N	4910 mm	16'1"	5020 mm	16'6"
O	2475 mm	8'1"	2940 mm	9'8"

Ground clearance 390 mm 15" ✓



HYDRAULIC SYSTEM

Closed-Center Load Sensing System (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic control unit:

All spool control valves externally mounted remote to the hydraulic tank. Piston-type hydraulic pump with capacity (discharge flow) of 99 ltr/min **26.2 U.S. gal/min** at rated engine rpm. ✓

Relief valve setting 27.4 MPa 280 kg/cm² **3,974 psi**

Hydraulic cylinders Double-acting, piston type

	Number of cylinders	Bore
Blade lift	2	75 mm 3"
Blade tilt	1	90 mm 3.5"
Blade angle	2	80 mm 3.2"

Hydraulic oil capacity (refill):

Power angle tilt dozer 64 ltr **17 U.S. gal**

Control valves:

3-spool control valve for Power Angle Tilt dozer

Positions:

Blade lift Raise, hold, lower, and float

Blade tilt Right, hold, and left

Blade angle Right, hold, and left

Additional control valve required for ripper

Positions:

Ripper lift Raise, hold, and lower



DOZER EQUIPMENT

	Overall Length With Dozer mm ft.in	Blade Capacity m ³ yd ³	Blade Width x Height mm ft.in	Max. Lift Above Ground mm ft.in	Max. Drop Below Ground mm ft.in	Max. Tilt Adjustment mm ft.in	Blade Angle
D39EX-24	4385 mm	2.21 m ³	2710 mm x 980 mm	820 mm	440 mm	365 mm	25°
Standard Blade	14'5"	2.89 yd ³	8'11" x 3'3"	2'8"	1'5"	1'3"	
D39PX-24	4385 mm	2.40 m ³	3250 mm x 910 mm	820 mm	440 mm	440 mm	25°
Standard Blade	14'5"	3.14 yd ³	10'8" x 3'	2'8"	1'5"	1'5"	
D39PX-24	4385 mm	2.22 m ³	2980 mm x 910 mm	820 mm	440 mm	405 mm	25°
Narrow Blade	14'5"	2.90 yd ³	9'9" x 3'	2'8"	1'5"	1'4"	

Blade capacities are based on the recommended practice ISO 9246. Use of high-tensile-strength steel in moldboard for strengthened blade construction.

* Including hitch



STANDARD EQUIPMENT FOR BASE MACHINE*

- Accumulator for Electric Proportional Control (EPC)
- Air cleaner, dry, double element type with caution lamp on monitor
- Air conditioner (A/C)
- Air inlet
- Alternator, 24 V/85 A ✓
- Back-up alarm
- Batteries, large capacity 24 V/92 Ah
- Cab accessories
 - 12 V x 2 power supply
 - Cup holder
 - Rear view mirror
 - Rear view monitor system ✓
 - Bluetooth/USB compatible radio with remote AUX plug (3.5 mm)
 - Crankcase guard and underguard ✓
- Decelerator/brake pedal (Single pedal)
- Electronically controlled Hydrostatic Transmission (HST) with quick-shift and variable speed settings
- Electronic monitor panel with on-board diagnostics
- Engine hood and side panels
- Engine, KOMATSU SAA4D95LE-7, gross output of 80 kW **107 HP**, direct injection, water-cooled turbocharged, air-to-air aftercooler, cooled EGR, EPA Tier 4 Final and EU Stage 4 emissions certified
- Fan, hydraulic driven, electronic control
- Filler cap locks and cover locks
- Foot rest, high mounted
- Fuel pre-filter (10 micron) and fuel filter (2 micron)
- Grease gun holder
- High altitude arrangement (No fuel adjustment up to 2300 m)
- Horn
- Hydraulics for PAT dozer
 - intake pipe with precleaner
 - Large high-resolution LCD LED worklights
 - Lunch box holder
 - Marks and plates, English
 - New Operator Identification System
 - Palm Command Control System (PCCS) with electronic control for travel control
 - Palm Command Control System (PCCS) with EPC for blade control
 - Power turn with counter rotation
 - Pullhook, front ✓
 - Radiator guard grid ✓
 - Radiator reserve tank
 - Real-time DEF monitoring
 - Rear-hinged radiator guard
 - Reverse travel speed presets

- ROPS cab
 - Meets ISO 3471, SAE J/ISO 3471 ROPS standards, and ISO 3449 FOPS standard.
- Seat belt, 76 mm 3" retractable
- Seat, air suspension, fabric, heated, low back, headrest
- Shovel holder
- Starting motor, 24 V/4.5 kW
- Self adjusting roller
- Sprockets, bolt-on
- Sprocket inner guard
- Track roller guards, end section
- Track shoe assembly (PLUS)
 - Sealed and lubricated
- D39EX-24: 510 mm **20"** single grouser shoe
- D39PX-24: 635 mm **25"** single grouser shoe
- Triple labyrinth final drive
- Water separator ✓

Dozer assembly and rear-mounted equipment are not included in base machine price.



OPTIONAL EQUIPMENT

- Dozer assembly
- Hitch
- Hydraulics for rear equipment
- Track roller guard, full length

Multi-shank ripper (for D39EX only)

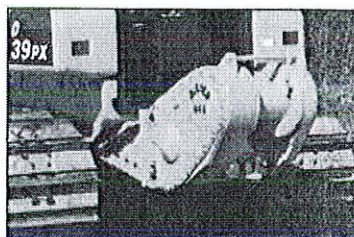
Weight.....	470 kg 1,036 lb
Beam length.....	1569 mm 62"
Maximum lift above ground.....	389 mm 15"
Maximum digging depth.....	336 mm 13"
Number of shanks.....	3

- 700 mm **27.5"** single grouser (PX)(PLUS)



ALLIED MANUFACTURER'S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Komatsu (Ken Garner)
 - Front sweeps 229 kg **584 lb**
 - Hinged cab side screens 44 kg **97 lb**
 - Hinged cab rear screen 43 kg **95 lb**
 - Rear A/C guard (requires front sweep) 61 kg **134 lb**
 - Poly panel door inserts 41 kg **91 lb**
- Hydraulic winch - Allied H4AT 685 kg **1,510 lb**



AESS901-03

©2021 Komatsu America Corp.

Printed in USA

AD03(POD)

03/21 (EV-1)

KOMATSU®

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

www.komatsuamerica.com

Komatsu America Corp. is an authorized licensee of Komatsu Ltd. Materials and specifications are subject to change without notice. KOMATSU®, Komatsu Care®, KOMTRAX® and KOMTRAX Plus® are registered trademarks of Komatsu Ltd. All other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu America Corp. or their respective owners or licensees.



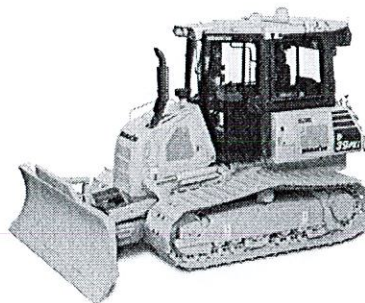
Komatsu Care Plus II

Extended maintenance and repair



D39EX/EXi/PX/PXi-24

Tier 4 final engine



Program information

Komatsu Care Plus II takes care of your equipment maintenance and repairs. You'll receive all the benefits of Komatsu Care Plus such as oil sampling, automatic maintenance scheduling, 50-point inspections, and the peace of mind that your equipment is being taken care of the way Komatsu intended. In addition, we've bundled Komatsu's Premier Extended Coverage to support your equipment's needs in case of unexpected repairs. Our comprehensive support plan protects your equipment with certified labor and includes diagnostic time.

Benefits

- Fixed maintenance and repair costs
- National service coverage
- Special financing
- Competitive pricing

Guaranteed

Komatsu Genuine Parts — To promote long-term performance and reliability, only genuine Komatsu parts are used for your equipment's maintenance.

Certified labor — So you're confident the job will get done right, work on your machine will be performed by Komatsu factory-trained service technicians. In addition to required work, they also perform a 50-point inspection to make sure your machine stays running at top performance.

Komatsu Oil and Wear Analysis (KOWA) — Enables us to detect abnormalities in your machine's condition, so we can further investigate and take the necessary actions to prevent catastrophic failures and minimize downtime.

Komtrax — Have a busy schedule? We'll monitor your machine through Komtrax telematics to automatically schedule your next maintenance and notify you when it's complete.

Planned maintenance interval	500	1,000	2,000	6,000
Reset monitor panel for service interval	•	•	•	•
Complete 50-point inspection	•	•	•	•
Perform KOWA sampling	•	•	•	•
Lubricate machine	•	•	•	•
Change engine oil	•	•	•	•
Replace engine oil filter	•	•	•	•
Replace main fuel filter	•	•	•	•
Replace fuel pre-filter	•	•	•	•
Replace air conditioner recirculation filters	•	•	•	•
Replace engine air filter	•	•	•	•
Change final drive case oil	•	•	•	•
Replace fuel tank breather element		•	•	•
Replace hydraulic tank breather element		•	•	•
Replace DEF tank breather element		•	•	•
Clean fan		•	•	•
Change hydraulic tank oil			•	•
Replace hydraulic tank oil filter			•	•
Replace HST oil filter			•	•
Clean hydraulic tank strainer			•	•
Replace KCCV filter			•	•
Replace DEF filter			•	•
Change coolant				•

Additional parts

KDPF filters

As needed

Additional items may be included

Coolant replacement will be included in maintenance intervals starting at 6,000 hours.

Machine hours



Repair coverage

- Powertrain
- Hydraulics
- Engine
- Cabin
- Electrical
- Structural
- Certified technicians
- Diagnostics
- Travel

For complete list of repairs, refer to page two of the contract.

Contract agreement

Machine model:

Serial number:

Length:

60 MOS

Duration:

4000 HOURS



Komatsu Care Plus II

Extended maintenance and repair

Covered items	Plus II
Engine and related parts	
Engine oil related	
Cooler	●
Engine filter mount	●
Remote make-up oil tanks	●
Remote mounted oil filtration system	●
Valves	●
Hose clamps and hoses*	●
Air intake and exhaust	
Air cleaner housing and after coolers	●
Inter coolers	●
Turbo charger**	●
Intake and exhaust manifolds	●
EGR valve and cooler	●
Mufflers**	●
Senders, solenoids and sensors	●
Pipes, tubes, clamps, hoses	●
Fuel system	
Fuel tank assembly and mounting	●
Fuel filter mounts	●
Fuel transfer, auxiliary, lift and injection pumps	●
Fuel coolers	●
Injectors**	●
Fuel manifolds/valves	●
Senders, solenoids and sensors	●
Pipes, tubes, clamps and hoses*	●
Engine mount	
AC compressor/condenser	●
Alternator** and starter	●
Damper and vibration damper	●
Power take off	●
Belt tensioner**	●
Flywheel and flywheel housing	●
Heat shielding and framework	●
Transmission	●
Senders, solenoids and sensors	●
Electronic control modules	●
Engine wiring harness	●
Aftertreatment system	
KDPF assembly**	●
HC and DEF dosing nozzles**	●
SCR assembly	●
KCCV assembly	●
Senders, solenoids and sensors	●
Pipes, tubes, clamps and hoses*	●
DEF mixing tube	●
Other DEF system related	
Tank	●
Heater, pump and tank heater valve	●
Pump controller	●
Senders, solenoids and sensors	●
Pipes, tubes, clamps and hoses*	●
Power transmitting system	
Transmission	
Transmission and torque converters	●

Covered items	Plus II
Torque flow assembly/power module	
Hydrostatic pumps and motors	
Control and PPC valves	
Oil coolers, tanks and reservoirs	
Oil filter mount	
Electronic control module	
Senders, solenoids and sensors	
Steering and transfer cases	
Damper	
Swing gear box	
Pipes, tubes, clamps and hoses*	
Drive line	
Axles and axle housings	
Axle mounting and oscillation	
Differentials and final drives	
Wheel/rim	
Drive shaft/axle shaft and universal joints	
Valves	
Pipes, tubes, clamps and hoses*	
Steering	
Steering clutch	
Steering clutch and brake control valve	
Steering pump and emergency steering pump	
Steering oil cooler	
Steering valves	
Steering box	
Steering linkage, column and console	
Tie rod	
Senders, solenoids and sensors	
Pipes, tubes, clamps and hoses*	
Braking system	
Brake primary and secondary cylinders	
Brake pump and emergency brake pump	
Wet brake assemblies	
Brake oil cooler assemblies	
Brake oil cooler fan, pump and motor	
Brake caliper	
Accumulators	
Tanks and reservoirs	
Electronic control modules	
Senders, solenoids and sensors	
Pipes, tubes, clamps, valves and hoses*	
Cooling system	
Radiator	
Expansion tank	
Thermostat**	
Cooling fan, fan drive and shrouding	
Water pump**	
Senders, solenoids and sensors	
Pipes, tubes, clamps, valves and hoses*	
Hydraulic systems	
Non-propulsion hydraulic pumps and motors	
Hydraulic cylinders	
Hydraulic valve and controls	
Electronic control modules	

Covered items	Plus II
Hydraulic accumulators	
Hydraulic oil coolers and cooling fans	
Swivels (rotary manifolds)	
Swing motor	
Hydraulic oil filter assembly	
Hydraulic tanks	
Senders, solenoids and sensors	
Pipes, tubes, clamps, valves and hoses*	
Suspension	
Electronic control module	
Suspension cylinders and control valves	
Suspension control arm assemblies	
Senders, solenoids and sensors	
Pipes, tubes, clamps, valves and hoses*	
Electrical system	
Gauges and instruments	
Wiring harnesses	
Switches	
Relays and circuit breakers	
Start switch	
Fuse/circuit breaker panel and circuit board	
Monitor panels	
Komtrax, VHMS and PLM (payload meter)	
Electronic controllers	
Air intake heaters and glow plugs	
Senders, solenoids and sensors	
Frames, structures and linkages	
Boom/arm	
Bell crank and Z-bar on wheel loaders	
Carbody	
Steel frame (front, rear, sub)/revolving frame	
Steel of outrigger on backhoe loaders	
Motor grader circle	
Undercarriage	
Bogie assemblies	
Equalizer bar	
HIC assemblies	
Pivot shaft assembly	
Recoil springs	
Track adjusters	
Track roller frame	
Hybrid systems	
Capacitor/inverter	
Generator/motor	
Hybrid controller	
Lubrication pump	
Radiator	
Swing motor	
Water pump**	
Wiring harness	
Intelligent Machine Control system	
GNSS and GPS antenna(s), GNSS receiver/controller, GNSS	
Control box and ICT controller	
IB monitor	
Sensors and encoders	

Premier coverage type includes items in addition to the above list and is subject to the limitation listed in Section 2 of this agreement.

* Indicates coverage for 24 months/4,000 hours

** Indicates coverage through the first 5,000 hours



Komatsu Care Plus II

Extended maintenance and repair

Komatsu Care Plus II terms and conditions

Agreement coverage:

- a. Subject to the terms and conditions below, authorized Distributors will provide Komatsu genuine parts, labor and other services required to properly execute maintenance activities outlined in "Covered Items."
- b. The Machine will be eligible for this coverage starting at _____ SMR hours (MM/DD/YYYY) and expiring the earlier of the date when the Machine has accumulated _____ SMR hours or _____ MM/DD/YYYY. The phrase "SMR hours" represents the engine run time for the Machine and is measured using the hour meter or monitor panel installed in the Machine's operator cab.

Terms and conditions:

- a. It is the responsibility of the nearest servicing branch within distributors territory to the location of set machine to perform outlined maintenance service in accordance to the machine model specific reimbursement policy letter for appropriate service maintenance interval. Distributor should notify customer of planned service date minimum of 72 hours in advance via MyKomatsu.com, e-mail or other communication platform.
- b. It is the responsibility of the customer to confirm scheduled date and relinquish set machine for maintenance and/or repair upon arrival of distributor personnel. If the customer has a conflict on scheduled date, he/she must notify servicing distributor to perform services on a different date so long as it is done in a timely manner and follows the nature of these agreement.
- c. Relinquish machine to servicing distributor in a timely manner after failure has occurred to execute appropriate repairs. Relinquish machine for scheduled maintenance at designated interval hours for maintenance by servicing distributor. Failure to do so can result in additional charges for technician labor time or travel for a second trip to machine. Failure to repair machine promptly after machine failure was identified, can result in original or consequential failures not being covered.
- d. Customer is to have machine available for distributor personnel in reasonable cleanliness conditions as to allow the technician to properly execute tasks. The machine is to be set in a safe working environment that allows access to perform services.
- e. Customer should receive results of oil analysis, 50-point inspection, and MyKomatsu.com service completion after the execution of every maintenance service.
- f. All service records are maintained by the Komatsu and made available for distribution to share with designated customers via the My Komatsu or Komatsu Care Report.

Maintenance

Exclusions and limitations:

- a. Machine parts that are not procured from Komatsu or an authorized distributor.
- b. Machine attachments, optional extras and other work equipment such as buckets, dump bodies, blades, and associated wear packages such as teeth, cutting edges, and liners.
- c. Operating expenses on Covered Items required to keep the Machine in good operating condition and repair, including by way of example but not limitation:
 - i. System adjustments.
 - ii. Cleaning and calibration/re-calibration of intelligent Machine Control components.
 - iii. Hardware, Software or Firmware updates.
 - iv. Cosmetic damage that does not impact product functionality.
 - v. Application based maintenance that requires a higher frequency of filter/oil/lubricant replacement than what is listed in "Covered Items."
- d. Service coverage is provided nationally based on country of machine sale. Machines migrating outside of selling country are not eligible to be serviced by any other distributor under this program.
- e. All maintenance services must be completed within +/- 200 hours of the target service interval to qualify for Komatsu reimbursement. Failure to complete set maintenance service according to these conditions will result as a loss of set service interval, following service intervals will resume as scheduled afterwards. Example: 500-hour maintenance service must be completed within 300-700 SMR as reported by Komtrax. However, in order to qualify for program benefits such as, but not limited to **Major Component Assurance, Komatsu Certified Equipment**, all maintenance services must be completed within +/- 100 hours of set interval.

Repairs

Exclusions and limitations:

- a. Repairs or replacements of:
 - i. Hose and tube flange O-rings and gaskets.
 - ii. Hoses after the Machine has been in service for 24 months or 4,000 SMR hours.
 - iii. Hydraulic cylinder packing replacements after the Machine has been in service for 5,000 SMR hours.
 - iv. Starters, alternators, thermostats, belt tensioners, injectors, turbochargers, KDPF, HC and DEF dosing nozzles, and water pumps after the Machine has been in service for 5,000 SMR hours.
 - v. Covered Items that are worn because of use. Examples of wear resulting from use would include, by way of example but not limitation, oil consumption and high blow by pressure on engines, hydraulic cylinder seal leaks, wear of clutch or brake packs, pins or bushings, etc.
 - vi. Machine parts that are not procured from Komatsu or an authorized distributor.
 - vii. Machine attachments, optional extras and other work equipment such as buckets, dump bodies, blades, and associated wear packages such as teeth, cutting edges, and liners.
 - viii. Any Machine part or component not specifically included within the scope of the Coverage Type, unless otherwise noted.
- b. Operating expenses on Covered Items required to keep the Machine in good operating condition and repair, including by way of example but not limitation:
 - i. System adjustments.
 - ii. Cleaning and calibration/recalibration of intelligent Machine Control components (unless recalibration is required due to the repair or replacement of a covered intelligent Machine Control component).
 - iii. Hardware, Software or Firmware updates.
 - iv. Cosmetic damage that does not impact product functionality.



Komatsu Care Plus II

Extended maintenance and repair

- v. As needed maintenance items such as repairs or replacements of mounting hardware, including bolts, nuts, pins, bushings, and bearings, paint, windshield wiper blades, seat belt assemblies, air cleaners, belts, light bulbs, batteries, cables, fuses, tires, track link assemblies, track shoes, idlers, rollers, sprockets, rock guards and deflectors.
- vi. Cost of carrying out scheduled structural inspections that are required to maintain coverage for certain Covered Items for Frame and Boom and Arm Coverage Types. If you wish to perform these inspections yourself, please obtain a copy of the Distributor Inspection Worksheet from your local Komatsu Distributor.
- c. Machine or Covered Item failures resulting from:
 - i. Operating the Machine outside the guidelines specified in O&M Manual.
 - ii. Operating the Machine outside of the parameters specified in the Machine specific Payload Policy or other notices or letters from Distributor or Komatsu.
 - iii. Noncompliance with the maintenance schedule and procedure outlined in the Machine's O&M manual.
 - iv. Fuel, lubricant or coolant contamination from any source.
 - v. Continuing to operate the machine when KOWA reports or the Machine monitor panel, Komtrax Plus, Komtrax, PLM or any other systems ("Machine Monitoring Systems") show critical errors, indicate that components are compromised by failures or are performing below specifications, or when the Distributor has requested that components be repaired or removed from the Machine because of an impending failure, manufacturer authorized field campaign or other good cause.
 - vi. Improper Machine storage procedures.
 - vii. Incomplete or faulty repair procedures on previous repairs completed by any person other than Distributor.
 - viii. Improper initialization procedures during Machine commissioning if the commissioning process was carried out by any person other than Distributor.
 - ix. Machine attachments options, accessories, modifications, or work equipment not authorized in O&M Manual and other materials published by Komatsu for distributors and customers or otherwise approved in writing and signed by an engineering officer of Komatsu.
 - x. Work site hazards or falling objects.
 - xi. Fire, accidents, vandalism, theft, acts of terrorism or war, acts of nature or other causes beyond the direct control of Distributor.
 - xii. Misuse, misapplication, negligence or other misconduct on the part of Customer or any other person.
- d. Customer may be responsible for paying for the following specific expenses related to repairs on Covered Items:
 - i. Transporting the Machine to a Distributor facility for completion of a covered repair and transporting the Machine back to the Machine's work location after completion of the covered repair.
 - ii. Overtime labor charges incurred at the request of Customer to complete repairs outside of the Distributor's normal working hours.
 - iii. Additional services performed at the Customer's request outside the scope of the Coverage Time, including, by way of example but not limitation, replacing parts and components outside such scope during performing a repair on a Covered Item.

Customer responsibilities: The obligations of Distributor under this Agreement are subject to and conditioned by the Customer's timely performance of the following, at their own expense:

- a. Operate, maintain, store, repair and otherwise use the Machine per the guidelines specified in the O&M Manual, Machine specific Payload Policy and all other notices or letters from Distributor or Komatsu concerning such topics.
- b. Maintain the Machine Monitoring Systems in good operating condition and repair.
- c. Notify Distributor promptly in the event of failure of a Covered Item. If the Machine is located outside of the Distributor territory at the time of a Covered Item failure, Customer can contact the local Komatsu distributor to carry out the covered repair.

Distributor responsibilities:

- a. Distributor will exercise commercially reasonable efforts to respond promptly to any Customer requests and questions related to this Agreement.
- b. Distributor will carry out covered maintenance services during normal Distributor working hours.
- c. All program coverages follow the spirit and guidelines outlines in Komatsu Service Policy and Procedure Manual.

Agreement transferability:

This Agreement is specific to the Machine listed in Section 1. Customer may not assign its right under this Agreement. This maintenance Agreement is transferrable with machine in the case of change in machine ownership. The unit under changed ownership is eligible to all the services outlined under original contract with no additional costs. Length and duration of Komatsu Care Plus II will follow as originally listed.

Agreement limitation of liability:

Except as expressly provided in this Agreement and in any written warranty certificate delivered by Distributor to Customer in connection with a purchase, Distributor does not make any representations or warranties, expressed, implied, arising by operation of law or otherwise, as to merchantability, fitness for a particular purpose, quality, design, condition, suitability, performance or any other matter or characteristic with respect to the Machine and any related attachments, options, accessories, modifications or work equipment. For any failure within the scope of the Coverage Type, Customer agrees that its sole and exclusive remedy will be for Distributor to perform the required repair. Distributor will not be liable under any circumstance to Customer for, and Customer waives and releases Distributor from all claims and liabilities for, any general, special, incidental, punitive, consequential, exemplary or any other damages of whatever kind or nature suffered or incurred by consignee, directly or indirectly, actual or alleged, whether arising in tort or in contract or otherwise, related to or arising out of this Agreement and the Machines and any related attachments, options, accessories, modifications or work equipment.

Agreed to by Customer and Distributor as of the Effective Date.

Distributor:

By _____

Name _____

Title _____

Customer:

By _____

Name _____

Title _____



Company ID Number:571783

Client Company ID Number:1453697

Information Required for the E-Verify Program	
Information relating to your Company:	
Company Name	Tractor & Equipment Co Inc
Company Facility Address	5336 Messer Airport Highway Birmingham, AL 35212
Company Alternate Address	PO Box 12326 Birmingham, AL 35202
County or Parish	Jefferson
Employer Identification Number	63-0211767
North American Industry Classification Systems Code	Merchant Wholesalers, Durable Goods (423)
Parent Company	
Number of Employees	500 to 999
Number of Sites Verified for	22