

KOMATSU®

D85EXi-18 **D85PXi-18** *Tier 4 Final Engine*

CRAWLER DOZER



D85i

intelligent
MACHINE CONTROL

Photos may include optional equipment.

NET HORSEPOWER

264 HP @ 1900 rpm
197 kW @ 1900 rpm

OPERATING WEIGHT

SIGMADOZER®
D85EXi-18: 67,439 lb 30590 kg
Straight Tilt Dozer
D85PXi-18: 65,080 lb 29520 kg

BLADE CAPACITY

SIGMADOZER®
D85EXi-18: 9.4 yd³ 7.2 m³
Straight Tilt Dozer
D85PXi-18: 7.7 yd³ 5.9 m³

WALK-AROUND

Next Generation Intelligence

No Cables

No coiled cables between machine and blade.

No Climbing

GNSS antenna and mast removed from blade.

No Connections

No daily connections required between machine and blade.

Innovative

Automated blade control from rough dozing to finish grade.

Integrated

Standard factory installed machine control system.

Intelligent

New dozing mode, load control performance features.



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D85EXi/PXi-18

INNOVATIVE. INTEGRATED. INTELLIGENT.



Standard Intelligent Machine Control
Standard factory installed integrated 3D GNSS (Global Navigation Satellite System) intelligent machine control system.

Improved Machine Control
Up to 8% more efficient dozer operation than comparable aftermarket machine control systems in start to finish grading tests.

Factory Installed Machine Control Components

Machine control components are factory installed and designed as an integral part of the base machine for improved durability.

Komatsu Quality

Machine control components and system validated to Komatsu's rigorous quality & durability standards.

Industry Standard Compatibility

Machine control system makes use of common industry design data file norms and supports typical base station communication.

Simple Operator Interface

Simple touch screen control box with multi-color customizable display.

3D GNSS Machine Control (Standard)

All on-machine components standard including control box, GNSS receiver/radio, GNSS antenna, and enhanced inertial measuring unit sensor.

Finish Grade Performance

Enhanced sensor package and intelligent logic provides for finish grade accuracy in an integrated system without traditional blade mounted sensors.

Enhanced Inertial Measuring Unit (IMU+)

Chassis mounted enhanced inertial measuring unit (IMU+) and intelligent logic provides for finish grade accuracy without blade mounted sensors.

Cab Top GNSS Antenna

Load control intelligence controls blade elevation to improve productivity and minimize track slip by adjusting blade load. 1.0' from grade or 0.1' from grade – you can run in auto mode.

Intelligent Dozing Mode Settings

Operators are able to select between 4 distinct machine control operating modes to optimize performance to the application whether cutting, spreading, or other.

Operator Selectable Load Settings

Machine control load settings can be adjusted between presets to tailor response to material conditions.

Komatsu SAA6D125-7 variable geometry turbocharged and after-cooled 11.04 liter diesel engine is EPA Tier 4 Final emissions certified.

- Heavy duty Selective Catalytic Reduction (SCR) system
- Diesel Exhaust Fluid (DEF) system
- Komatsu Diesel Particulate Filter (KDPF) system
- Heavy duty cooled Exhaust Gas Recirculation (EGR) system
- Electronic control system - seamless to the operator
- Komatsu Variable Geometry Turbocharger (KVTG) system
- Heavy duty High Pressure Common Rail (HPCR) fuel injection system

Fluid neutral or better

Fuel & DEF total consumption is less than fuel consumed by prior model.

Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Komatsu Variable Geometry Turbocharger (KVTG) uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

Komatsu Auto Idle Shutdown helps reduce excessive idle time.

Rear hydraulics (standard)

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.

KOMTRAX® can send information to a secure website including machine location, SMR, error codes, cautions, maintenance items, fuel usage, fuel levels, DEF levels, ambient conditions and much more.

Parallel Link Undercarriage System (PLUS) (Standard):

- Increases wear life up to two times
- Rotating bushings eliminate the cost and downtime for bushing turns
- Up to 40% lower undercarriage maintenance costs

** All comparisons are to the prior model, unless otherwise stated.

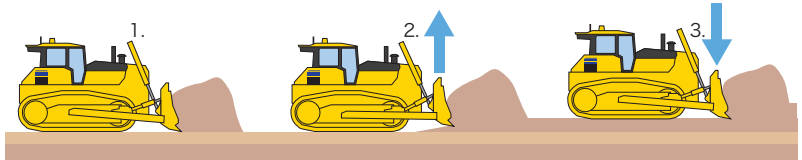
INTELLIGENT MACHINE CONTROL

Automatic Blade Control, Ranging from Heavy Dozing to Finish Grading

The D85i-18 features a 3D GNSS (Global Navigation Satellite System) machine control system which automatically controls the blade elevation and tilt per target design data. Not only can the automatic machine control features be used for finish grading but also for heavy (rough) dozing. Loading of the blade at the start

of the cut is controlled per set parameters. During the pass, if the load on the blade increases during heavy dozing operation, the blade is automatically raised to control the load and minimize shoe slip to ensure efficient dozing. When the blade approaches the target design surface, the blade will follow it for accurate finish grading.

1. Blade moves to target surface until load reaches a preset level.
2. The blade automatically raises to minimize track slip.
3. Should the load decrease, blade will lower to re-load blade to an optimum level.



Operator Selectable Dozing Mode, Blade Load Settings

Dozing mode settings

Optimize machine performance for the given operation type.



Cutting and carry
Long, shallow cuts



Cutting
Front to back dozing



Spreading
Spreading a pile of material



Simple grading
Severe grade breaks, transitions

Blade load mode settings

Tailor blade loads to material conditions.



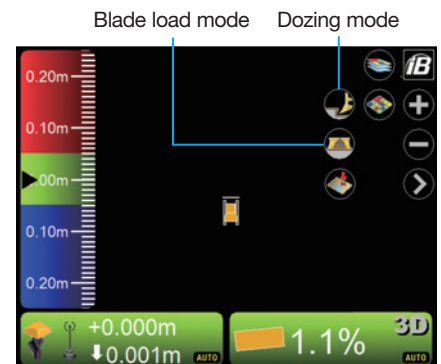
Light
Low traction application, low blade load due to material characteristics



Normal
Typical operation



Heavy
High traction application, high blade load due to material characteristics



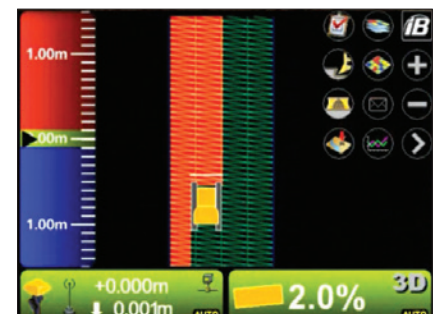
Auto/manual switch

Multiple passes, forward and reverse, can be made with automatics activated the entire time.



As-built Mapping Display for Checking Construction Progress

Cab top GNSS antenna provides for accurate as-built surface data collection by measuring actual elevations as machine continuously tracks in operation.





Advanced Sensor Technologies For Performance

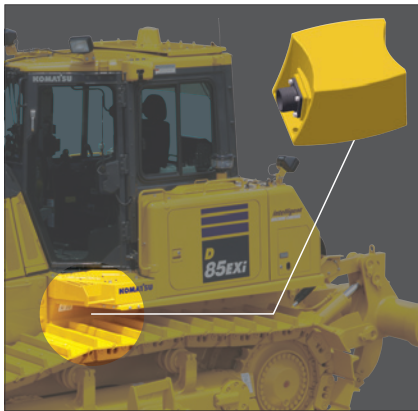
GNSS antenna

Mounted to top of cab to minimize damage – not on the blade.



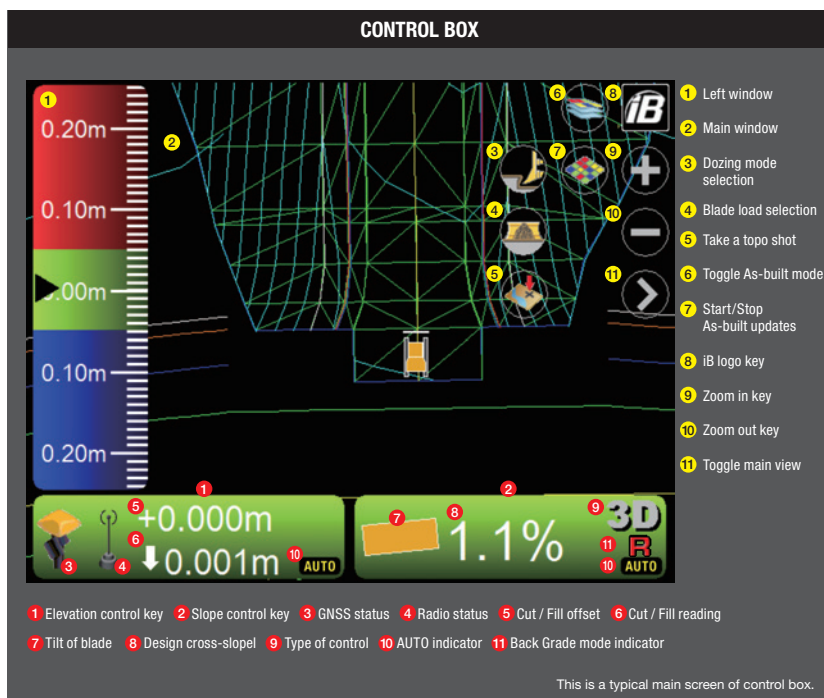
Enhanced inertial measuring unit (IMU+)

Chassis mounted IMU+ and intelligent logic enables accurate grading performance without blade mounted sensors.



Control box

Easy to use touchscreen display features bright graphics and customizable views. Mounting allows viewing angle to be adjusted per operator preference.



Stroke sensing hydraulic cylinders

Robust stroke sensing hydraulic cylinders employ proven Komatsu sensor technologies for accurate finish grade performance.



Factory Installed Machine Control System For Quality, Durability

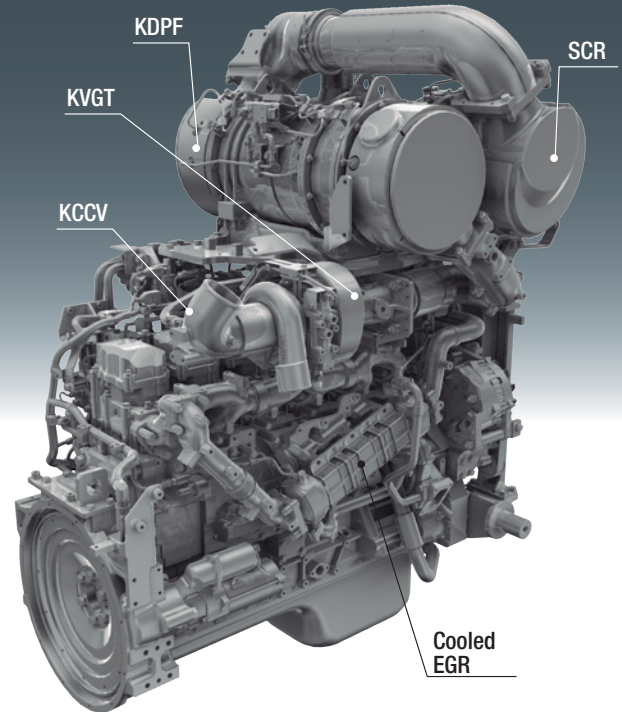
Machine control system components are factory installed and designed as an integral part of the machine.

PERFORMANCE FEATURES

KOMATSU NEW ENGINE TECHNOLOGIES

New Tier 4 Final Engine

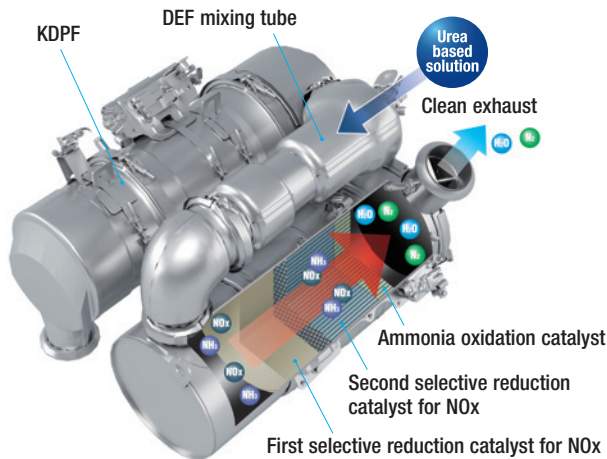
The Komatsu SAA6D125E-7 engine is EPA Tier 4 Final emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine lowers nitrogen oxides (NOx) and particulate matter (PM) by more than 90%, compared to Tier 3 levels. Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all conditions.



Technologies Applied to New Engine

Heavy-duty aftertreatment system

This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of DEF at the proper rate, thereby transforming NOx into non-toxic water (H₂O) and nitrogen gas (N₂).



Advanced Electronic Control System

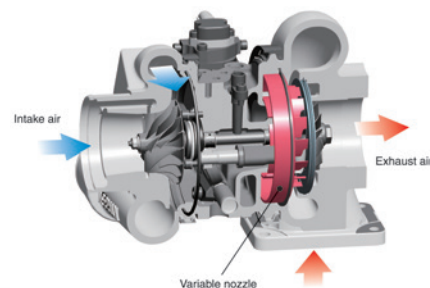
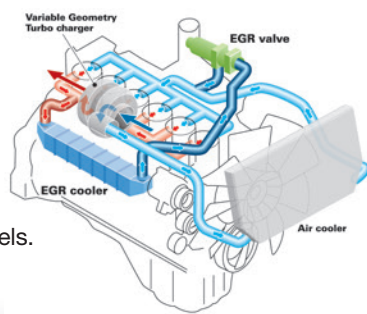
The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment in all conditions of use. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing vital operator information. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

Komatsu Variable Geometry Turbocharger (KVCV) system

The KVCV system features proven Komatsu design hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.

Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

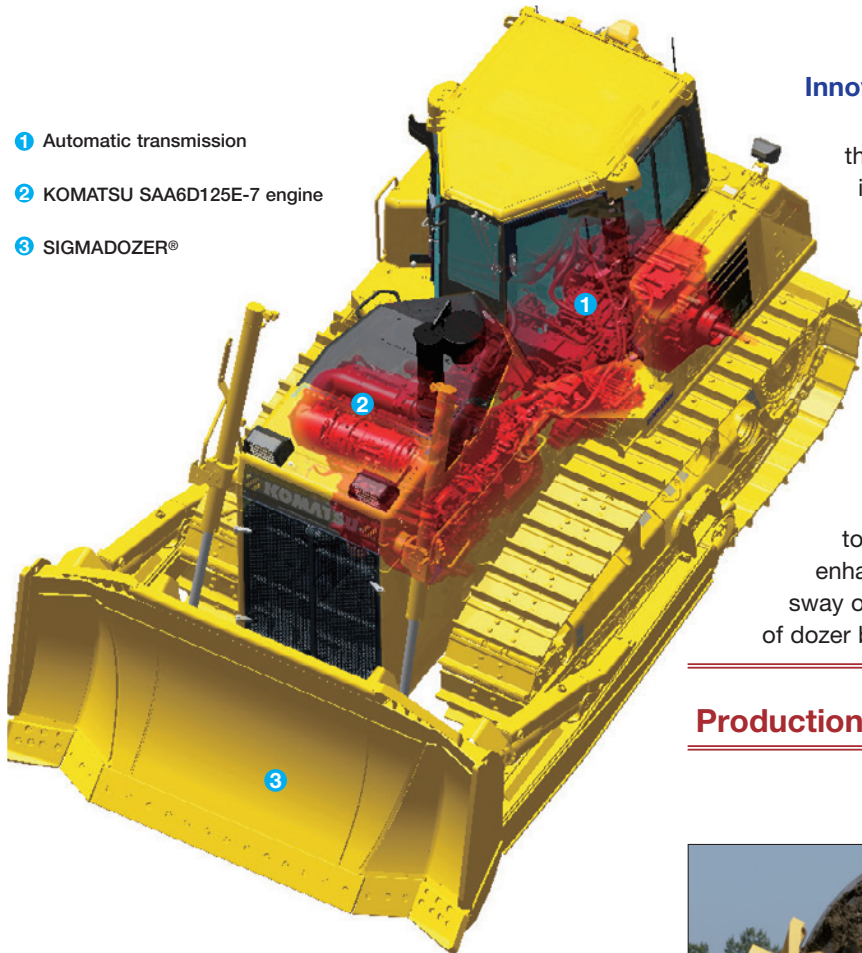
The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system dramatically reduces NOx, while helping cut fuel consumption below Tier 3 levels.



PRODUCTIVITY & FUEL ECONOMY FEATURES



- 1 Automatic transmission
- 2 KOMATSU SAA6D125E-7 engine
- 3 SIGMADOZER®



Innovative SIGMADOZER®

Based on a completely new digging theory, SIGMADOZER® dramatically improves dozing performance and increases productivity. A new frontal design adopted for digging and rolling up material at the center of the blade increases soil holding capacity and simultaneously reduces sideway spillage. Lower digging resistance produces smoother flow of material, enabling dozing with less power.

In addition, adoption of a new blade linkage system holds the blade closer to the tractor for improved visibility, enhanced digging force and reduced lateral sway of the blade. This is the next generation of dozer blades.

Production increased by up to 15%

Compared to conventional Semi-U blade

New Fuel Efficient Bulldozer

The new D85EXi/PXi-18 is both productive and fuel efficient with the SIGMADOZER® blade, automatic transmission and new Tier 4 Final engine. The SIGMADOZER® blade, based on completely new digging theory, dramatically increases production. This bulldozer significantly improves fuel efficiency compared to a conventional model.



SIGMADOZER (D85EX-18)



Semi-U blade (D85EX-15E0)

SIGMADOZER®

15% increase

Automatic transmission

3% reduction

Tier 4 Final engine

2% reduction

FUEL EFFICIENCY*:

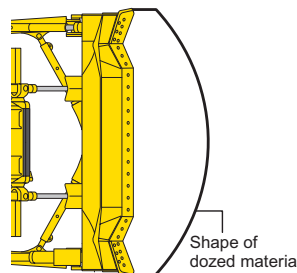
20% increase

Compared to machine with Semi-U blade and manual shift transmission

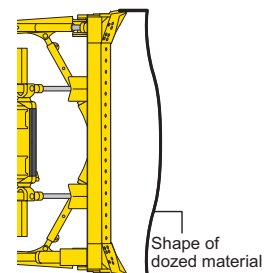
* Production volume per unit of fuel; figures quoted represent potential increase. Your experience may vary.

Production Increased By

15% (compared with a conventional Semi-U blade model)



SIGMADOZER®



Semi-U blade

PRODUCTIVITY & FUEL ECONOMY FEATURES

Automatic Transmission

A sharp drop in fuel consumption and greater power train efficiency is achieved by the automatic gearshift transmission. The automatic gearshift transmission selects the optimal gear range depending on the working conditions and load placed on the machine. This means the machine is always operating at maximum efficiency. (Manual gearshift mode is also selectable)

Fuel consumption reduced by up to 3%

Compared to machine with manual shift transmission

Selectable Working Modes

Select P mode for powerful operation and maximum production. E mode is for general dozing applications with adequate speed and power, while saving energy. For CO₂ reduction and energy saving, a switch on the monitor panel can be easily pressed to select the working mode that matches the work at hand.

P mode (Power mode)

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

E mode (Economy mode)

With E mode, the engine outputs enough power for moderate work without delivering unnecessary power. This mode provides energy saving operation and is suitable for work on ground where the machine may experience excessive shoe slip in moderate power applications such as downhill dozing, leveling and light-load work.

Automatic/Manual Gearshift Selectable Mode

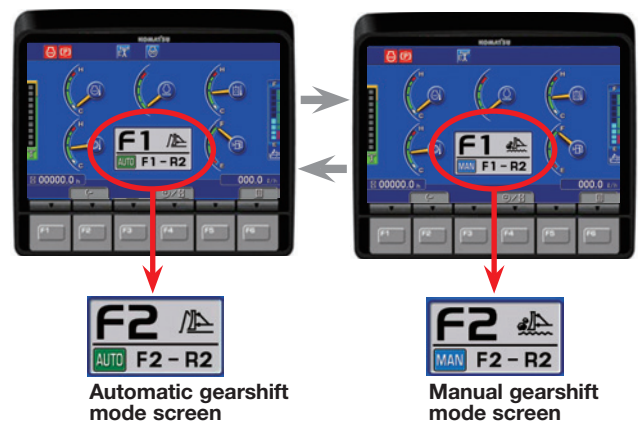
Automatic or manual gearshift modes can be selected with ease to suit the jobsite conditions by simply pressing the switch on the monitor.

Automatic gearshift mode

The automatic mode is for general dozing. When a high load is encountered, the transmission automatically shifts down, and when the load is released, it automatically shifts up to quickly and efficiently carry the material. This mode optimizes fuel use and production.

Manual gearshift mode

The manual mode is for dozing and ripping rough ground. When enabled, the transmission automatically shifts down when a high load is encountered, but does not shift up when the load is off. The operator can specify whether the auto shift down function is enabled or disabled in manual gearshift mode by selection in the monitor.



D85EX-18 Shown

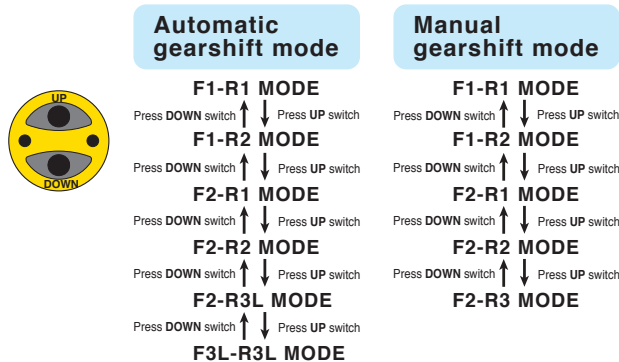
D85EX-18/PXH-18

CONTROL FEATURES & WORKING ENVIRONMENT



Gearshift Pattern Preset Function

When the gearshift pattern is set to either <F1-R2>, <F2-R1>, <F2-R2>, <F2-R3L> or <F3L-R3L> in the automatic gearshift mode, the gear automatically shifts to the preset gear when the travel control joystick is set to Forward or Reverse position, reducing round trip repetition work time and operator's efforts. Gearshift pattern <F2-R3L> and <F3L-R3L> are added for high speed leveling.



Comfortable Ride with New Operator Seat and Cab Damper Mounting

The new operator seat is equipped with lumbar support, a tilting adjust function and electric heater. It is easy to adjust to the operator's shape and various working conditions and provides comfortable operation. The standard heated seat makes it possible to work comfortably in the winter.

The D85EXi/PXi-18's cab mount uses a cab damper which provides excellent shock and vibration absorption capacity with its long stroke. Cab damper mounts soften shocks and vibration while traveling over rough terrain, which conventional mounting systems are unable to match. The cab damper spring isolates the cab from the machine body, suppressing vibration and providing a quiet, comfortable operating environment.

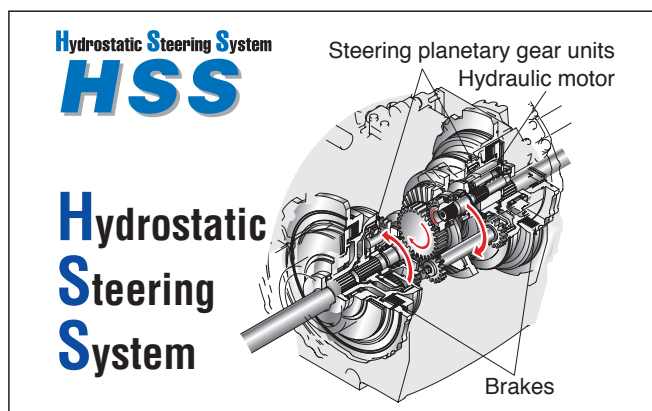


Electronic Controlled Modulation Valve (ECMV) Controlled Transmission and Brakes

The controller automatically adjusts each clutch engagement depending on travel conditions, providing smooth shockless clutch engagement, improved component life and operator ride comfort.

Hydrostatic Steering System (HSS) – Smooth, Powerful Turning

The engine power is transmitted to both tracks without power interruption on the inside track for smooth, powerful turns. Counter-rotation while in neutral is available for minimum turning radius providing excellent maneuverability.



Selectable Auto Downshift in Manual Mode

Auto downshift can be turned off in manual mode in the mode select section of the monitor. The operator can have full control over the downshift in manual mode.

Integrated ROPS Cab

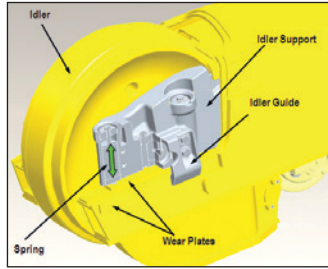
The D85EXi/PXi-18 has a strong integrated ROPS cab. High rigidity and superb sealing sharply reduce noise and vibration for the operator and minimizes dust that enters the cab. This provides the operator a comfortable working environment. Also, there is more side visibility because an additional external ROPS structure and posts are not required.



RELIABILITY & MAINTENANCE FEATURES

Self-adjusting Idler Support

Self-adjusting idler support applies a constant spring force to the wear plate of the idler guide to eliminate the play of the idler. This results in reduced noise and vibration as well as extended service life of the wear plate.

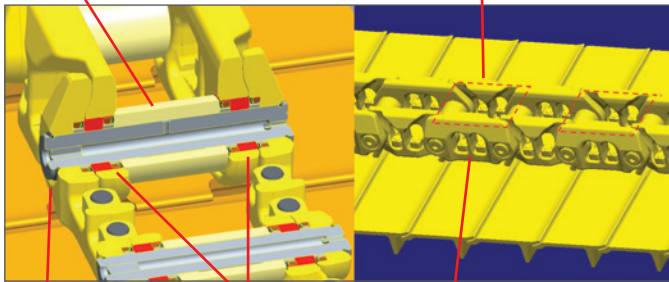


Parallel Link Undercarriage System (PLUS)

Undercarriage wear life is increased by up to two times and the cost of a bushing turn and downtime is eliminated. Undercarriage maintenance costs are lowered by up to 40%.

Rotating bushing

Closed construction



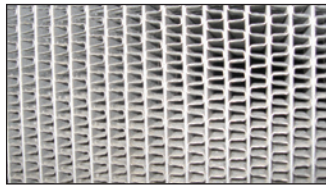
Wedge ring

Seal for rotating bushing

Parallel link

Wide Core Cooling System

In addition to improved engine compartment sealing, a wide core cooling system is standard. The radiator, oil cooler and charge air cooler use large square-wave fins spaced at 6 fins per inch. This allows more material to pass through, which helps self-cleaning and reduces maintenance.



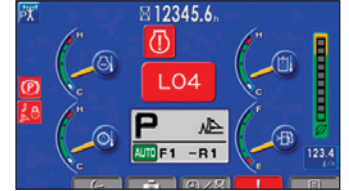
Multi-monitor with Troubleshooting Function to Help Prevent Critical Machine Trouble

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 should occur.

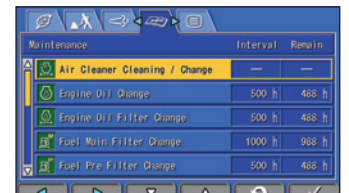
In addition, countermeasures

are indicated in 4 levels to help prevent major problems. Replacement times for oil and filters are also indicated.



Maintenance Function

When the machine needs oil and filters, the monitor panel will display lights to inform the operator.



Battery Disconnect Switch

A standard battery disconnect switch allows a technician to disconnect the power supply before servicing the machine.



Easy Access DEF Tank

Located at the right side of the fuel tank, and is accessible from ground level. A convenient sight gauge is also provided.



Convenient Sight Gauge

DEF Tank



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

✓ **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

✓ **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



D85PX-18 shown



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.

KOMATSU PARTS & SERVICE SUPPORT



Every new Komatsu Tier 4 Final construction machine is covered.

The Komatsu CARE program covers all new Komatsu Tier 4 Final construction equipment, whether rented, leased or purchased. For the first 3 years or 2,000 hours, whichever occurs first, you'll receive:

- Regular service at 500, 1,000, 1,500 and 2,000-hr. intervals
- DEF tank breather element replacement at 1,000 hours
- DEF and CCV filters replacement at 2,000 hours
- 50-point inspection by factory-trained technician at each scheduled interval
- Technician labor
- Fluids, oils, coolant, filters, SCR screen, tank breather and parts
- Technician travel to and from your equipment location

Plus two complimentary scheduled KDPF exchanges and SCR system service for 5 years-no hours limits.*

Service will be performed by a Komatsu Distributor and only Komatsu genuine fluids and filters will be used.

Komatsu CARE® services are available from every Komatsu Distributor in the U.S. and Canada.



Komatsu CARE® – 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



Komatsu Parts Support

- 24/7/365 to meet 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 significant cost savings



Komatsu Oil and Wear Analysis (KOWA)

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

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



SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D125E-7*
 Type 4-cycle, water-cooled, direct injection
 Aspiration..... Komatsu variable geometry turbocharged, air-to-air aftercooled
 Number of cylinders..... 6
 Bore x stroke..... 125 mm x 150 mm **4.49" x 5.69"**
 Piston displacement..... 11.04 ltr **674 in³**
 Governor.....All-speed and mid-range, electronic
 Horsepower
 SAE J1995.....Gross 199 kW **267 HP**
 ISO 9249 / SAE J1349.....Net 197 kW **264 HP**
 Rated rpm..... 1900 rpm
 Fan drive typeHydraulic
 Lubrication system
 Method Gear pump, force lubrication
 Filter..... Full-flow

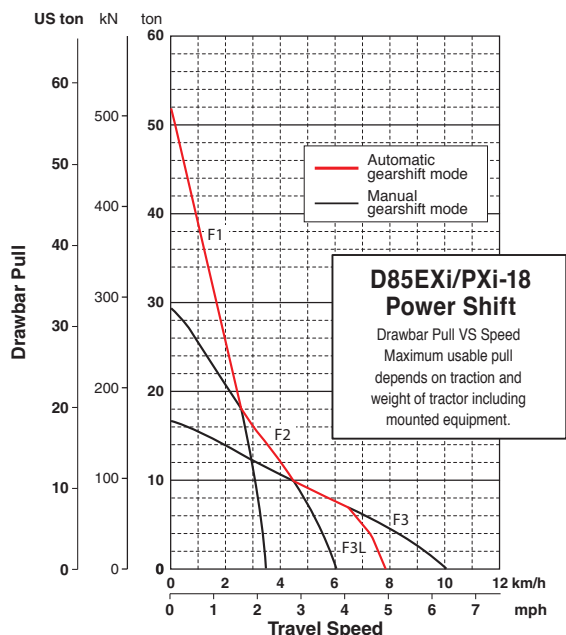
**EPA Tier 4 Final emissions certified



TORQFLOW TRANSMISSION

Komatsu TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 1-phase and a planetary gear, multiple-disc clutch transmission which is electronically controlled, hydraulically actuated and force-lubricated for optimum heat dissipation. Shift lock lever and neutral safety switch.

Travel speed	Forward	Reverse
1st	3.3 km/h 2.1 mph	4.4 km/h 2.7 mph
2nd	6.1 km/h 3.8 mph	8.0 km/h 5.0 mph
3rd L	7.8 km/h 4.8 mph	9.2 km/h 5.7 mph
3rd	10.1 km/h 6.3 mph	13.0 km/h 8.1 mph



STEERING SYSTEM

Palm Command Control System (PCCS) lever controls for all directional movements. Pushing the PCCS lever forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the PCCS lever to left to make a left turn. Tilt it to the right for a right turn.

Hydrostatic Steering System (HSS) is powered by steering planetary units and a hydraulic pump and motor. Counter-rotation turns are also available. Wet, multiple-disc, pedal-controlled service brakes are spring-actuated and hydraulically released. Gear shift lock lever also applies parking brake.

Minimum turning radius
 D85EXi-18 2.0 m **6'6"**
 D85PXi-18 2.2 m **7'3"**



UNDERCARRIAGE

Suspension.....Oscillating equalizer bar and pivot shaft
 Track roller frame Monocoque, large section, durable construction

Rollers and idlers Lubricated

Track shoes

Parallel Link Undercarriage System (PLUS) with lubricated rotating bushings for extended system wear life and lower maintenance costs. Track tension is easily adjusted with grease gun.

	D85EXi-18	D85PXi-18
Number of track rollers (each side)	7	8
Type of shoes (standard)	Single grouser	Single grouser
Number of shoes (each side)	41	45
Grouser height	mm in 72 2.8"	72 2.8"
Shoe width (standard)	mm in 660 26"	910 36"
Ground contact area	cm ² 40260	63340
	in² 6,240	9,820
Ground pressure (tractor)	kPa 59.5	39.8
	kgf/cm ² 0.61	0.40
	psi 8.62	5.77
Track gauge	mm ft.in 2000 6'7"	2250 7'5"
Length of track on ground	mm ft.in 3050 10'0"	3480 11'5"

SPECIFICATIONS



FINAL DRIVES

Double-reduction final drive of spur and planetary gear sets to increase tractive effort and reduce gear tooth stresses for long final drive life. Segmented sprocket teeth are bolt-on for easy replacement. Triple labyrinth protects seals and improves durability.



SERVICE REFILL CAPACITIES

Fuel tank	470 ltr	124.1 U.S. gal
DEF tank	23.5 ltr	6.2 U.S. gal
Coolant	65 ltr	17.2 U.S. gal
Engine.....	38 ltr	10.0 U.S. gal
Damper case	1.6 ltr	0.42 U.S. gal
Torque converter, transmission, bevel gear, and steering system	60 ltr	15.8 U.S. gal
Final drive (each side)		
D85EXi-18	26 ltr	6.9 U.S. gal
D85PXi-18.....	36 ltr	9.5 U.S. gal



HYDRAULIC SYSTEM

Closed-center load sensing system (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic control units:

All spool valves externally mounted beside the hydraulic tank.

Piston type hydraulic pump with capacity (discharge flow) of 331 ltr/min **87.4 U.S. gal/min** at rated engine rpm.

Relief valve setting 22.6 MPa 230 kg/cm² **3,270 psi**

Control valves:

Spool control valves for SIGMADOZER® or straight tilt dozer

- Positions: Blade lift Raise, hold, lower, and float
- Blade tilt Right, hold, and left
- Rear attachment..... Raise, hold, and lower

	Number of cylinders		Bore
	SIGMADOZER®	Straight Tilt Dozer	
Blade lift	2	2	100 mm 4.0"
Blade tilt	1	1	150 mm 5.9"
Blade angle	1	-	150 mm 5.9"
Ripper lift	2	2	130 mm 5.1"
Pitch angle	45° - 51°	52° - 58°	-

Hydraulic oil capacity (refill): 69 ltr **18.2 U.S. gal**

Ripper equipment (additional volume):

 Multi-shank ripper 11 ltr **2.9 U.S. gal**



DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265.

Use of high tensile strength steel in moldboard for strengthened blade construction.

	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	Weight Dozer equipment kg lb	Ground Pressure* kPa kg/cm ² psi
D85EXi-18 Strengthened Single Tilt Power Pitch SIGMADOZER®	5810 19' 1"	7.2 9.4	3575 x 1665 11' 9" x 5' 5"	1225 4' 0"	580 1' 11"	700 2' 4"	4030 8880	80.4 / 0.82 / 11.7
D85PXi-18 Straight Tilt Dozer	6025 19' 9"	5.9 7.7	4355 x 1400 14' 4" x 4' 7"	1240 4' 0"	550 1' 10"	500 1' 8"	3140 6920	45.6 / 0.46 / 6.6

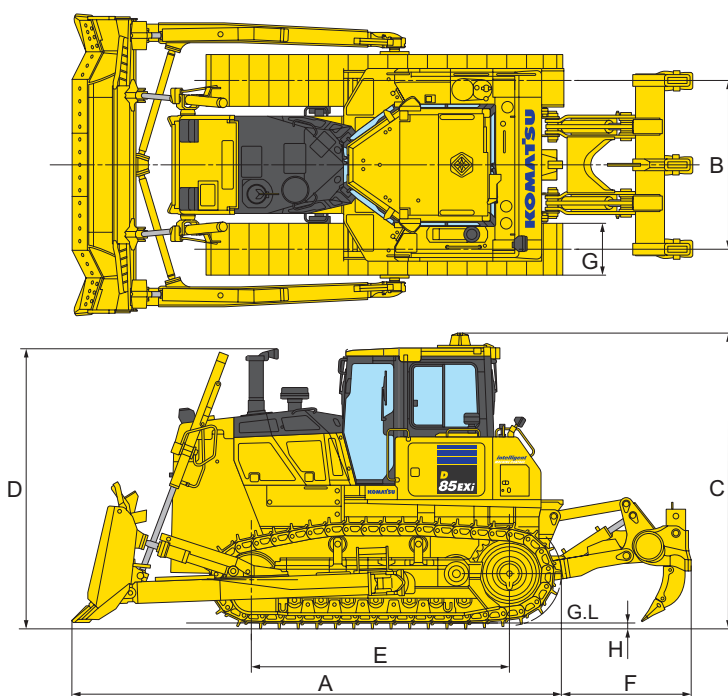
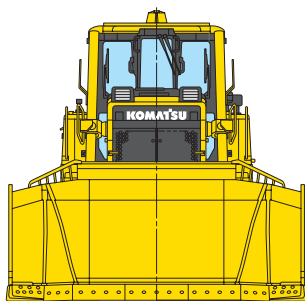
*Ground pressure is based on machine operating weight with blade shown and fixed ripper (EX) or long drawbar (PX)



DIMENSIONS

	D85EXi-18 SIGMADOZER®		D85PXi-18 Straight Tilt Dozer with Long Drawbar	
A	5810 mm	19'1"	6025 mm	19'10"
B	2000 mm	6'7"	2250 mm	7'5"
C	3498 mm	11'6"	3498 mm	11'6"
D	3300 mm	10'10"	3300 mm	10'10"
E	3030 mm	10'0"	3460 mm	11'5"
F	1515 mm	5'0"	-	-
G	660 mm	2'2"	910 mm	3'0"
H	72 mm	2.8"	72 mm	2.8"

Ground clearance 450 mm **1'6"**



Dimension with D85EXi-18 SIGMADOZER single grouser shoe.



OPERATING WEIGHT

Tractor weight:

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

D85EXi-18 24270 kg **53,506 lb**

D85PXi-18..... 26210 kg **57,849 lb**

Operating weight:

Including SIGMADOZER® and fixed multi-shank ripper (EXi) or straight tilt dozer and long drawbar (PXi) ROPS cab, operator, standard equipment, rated capacity of lubricant, hydraulic control unit, coolant, and full fuel tank.

D85EXi-18 SIGMADOZER® 30590 kg **67,439 lb**

D85PXi-18 straight tilt dozer 29520 kg **65,080 lb**



STANDARD EQUIPMENT FOR BASE MACHINE*

- Air cleaner, double element with dust indicator
- Alternator, 90 ampere/24V
- Auto idle shutdown function
- Backup alarm
- Batteries, 200 Ah/2 x 12V
- Battery disconnect switch
- Blade lift cylinders
- Color monitor, LCD
- Decelerator pedal
- Engine hood
- Engine intake centrifugal precleaner
- Engine, gull-wing side covers
- Engine shutdown secondary switch
- Exhaust pipe with raincap
- Fenders
- Front pull hook
- High mount foot rests
- Horn, warning
- Hydraulic driven radiator cooling fan with reverse clean mode
- Hydraulics for front attachment
 - Single tilt, power pitch (EXi SIGMADOZER only)
 - Single tilt, manual pitch (non-SIGMADOZER)
- Hydraulics for rear attachment
- KOMTRAX® Level 5
- Komatsu Diesel Particulate Filter (KDPF)
- Komatsu Variable Geometry Turbocharger (KVGT)
- Locks, filler caps and covers
- Oil pressure check ports for power train
- Operator ID function
- PM service connector
- Radiator mask, heavy-duty, hinged, perforated
- Radiator reserve tank
- Rear cover
- ROPS cab**
 - 75 dB operator ear noise level
 - Air conditioner
 - Cab accessories
 - 12V power supply (2 ports)
 - Cup holder
 - Rearview mirror
 - Rear view monitoring (1 camera)
 - AM/FM Radio w/remote AUX plug (3.5 mm)
 - Work lights
 - 2 front, hood mounted
 - 2 front, cab mounted
 - 1 rear, left fender mounted
 - 2 rear, cab mounted
 - 1 ripper point (EX only)
- Seat, air suspension, fabric, heated low back, rotates 12.5° to right, headrest
- Seat belt, 76 mm **3"**, retractable
- Seat belt indicator
- Sealed electrical connectors
- Starting motor, 11.0 kW/24V
- Steering system: Hydrostatic Steering System (HSS)
- Torque converter
- Track roller guards, center and end sections
- Track shoe assembly
 - Heavy Duty lubricated rotary bushing (PLUS) track
 - 660 mm **26"** ES single grouser shoe (EXi)
 - 910 mm **36"** ES single grouser shoe (PXi)
- Transmission with auto/manual shift modes
- Underguards, heavy duty
 - Hinged belly pan
 - Transmission
- Water separator
- Wide core cooling package

* Dozer assembly and rear mounted equipment are not included in base machine standard equipment

** Cab meets OSHA/MSHA ROPS and FOPS Level 2 standards (ROPS standards ISO 3471, SAE J/ISO 3471; FOPS standards ISO 3449)



OPTIONAL EQUIPMENT

- Drawbar, rigid type
- SIGMADOZER® (EXi)
- Straight Tilt (PXi)

Shoes

	Shoes, single grouser	Additional weight	Ground contact area
EXi	660 mm 26" PLUS extreme service	+330 kg +728 lb	40260 cm ² 6,240 in²
PXi	910 mm 36" PLUS extreme service	+390 kg +860 lb	63340 cm ² 9,820 in²

Multi-shank ripper (for D85EXi)

Weight.....	2500 kg 5,520 lb
Beam length.....	2250 mm 7'5"
Maximum lift above ground...	565 mm 1'10"
Maximum digging depth.....	655 mm 2'2"



ALLIED MANUFACTURER'S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Medford
 - Front sweeps, open bullnose 317 kg **700 lb**
 - Front sweeps, covered bullnose 500 kg **1,100 lb**
 - Hinged cab side screens 79 kg **175 lb**
 - Hinged cab rear screen 91 kg **200 lb**
 - Tank guards 500 kg **1,100 lb**
- Hydraulic winch - Allied H8L 1542 kg **3,400 lb**
- Fairlead 4-Roller H8LFL4 408 kg **900 lb**

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AD02(Electronic View Only)

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

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