



### **CRAWLER DOZER**



Photos may include optional equipment.

### **NET HORSEPOWER**

217 HP @ 1950 rpm 162 kW @ 1950 rpm

#### **OPERATING WEIGHT**

**SIGMADOZER®** D65EXi-18: 45,780 lb 20810 kg Straight Tilt Dozer D65PXi-18: 48,620 lb 22100 kg Power Angle Tilt Dozer D65PXi-18: 50,420 lb 22960 kg

#### **BLADE CAPACITY**

**SIGMADOZER®** D65EXi-18: 7.3 yd3 5.6 m3 Straight Tilt Dozer D65PXi-18: 4.8 yd3 3.7 m3 **Power Angle Tilt Dozer** D65PXi-18: 5.8 yd3 4.4 m3

# WALK-AROUND

# **Introducing The Next Generation Of Machine Control**

# >> D65EXi-18 >> D65PXi-18

### Innovative

Automated operation from rough dozing to finish grade.

### Intelligent

New dozing mode, load control performance features.

### Integrated

U2'74 M

Standard factory installed machine control system.

Photos may include optional equipment.

### **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.

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#### **BLADE CAPACITY**

 SIGMADOZER®

 D65EXi-18:
 7.3 yd³ 5.6 m³

 Straight Tilt Dozer

 D65PXi-18:
 4.8 yd³ 3.7 m³

 Power Angle Tilt Dozer

 D65PXi-18:
 5.8 yd³ 4.4 m³



INNOVATIVE. INTEGRATED. INTELLIGENT.

Standard Intelligent Machine Control Standard factory installed integrated 3D GNSS 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.

**SAA6D114E-6 diesel engine** provides excellent fuel economy. This engine is EPA Tier 4 Final emissions certified.

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

**Includes a wide core A/C condenser** and bowl-type precleaner on the cab air intake for improved performance in high debris applications.

Komatsu Diesel Particulate Filter (KDPF) captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

Selective Catalytic Reduction (SCR) removes NOx exhaust gases automatically by injecting DEF (diesel exhaust fluid) and is seamless to the operator.

Auto Idle Shutdown helps reduce non-productive engine idle time and operating costs.

**KOMTRAX®** sends 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.

#### **Integrated ROPS cab features include:**

- · Large, quiet, and pressurized cab
- Improved visibility with integrated ROPS structure
- · New heated air-suspension seat with high capacity
- Aux plug for audio player and two 12 volt connections

#### Large color monitor:

- Easy-to-read and use large 7" high-resolution multi-color monitor
- Ecology guidance
- On-board diagnostics

**Rearview Monitoring System (standard)** displays the area behind the machine onto the wide landscape view color monitor screen.

# **PERFORMANCE FEATURES**

#### KOMATSU NEW ENGINE TECHNOLOGIES

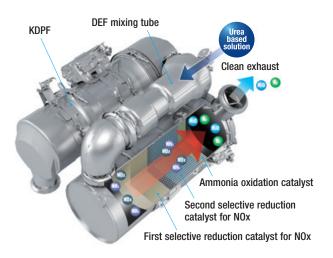
#### New Tier 4 Final Engine

The Komatsu SAA6D114E-6 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 reduces nitrogen oxides (NOx) by more than 80% when compared to Tier 4 interim 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 applications.

#### **Technologies Applied to New Engine**

#### Heavy-duty aftertreatment system

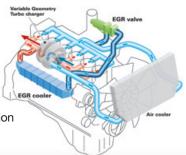
This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of DEF at the proper rate, thereby decomposing NOx into non-toxic water (H<sub>2</sub>O) and nitrogen gas (N<sub>2</sub>).

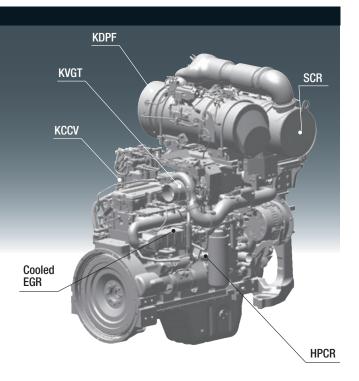


### Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

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 achieves a dynamic reduction of NOx, while helping reduce fuel consumption below Tier 4 Interim levels.



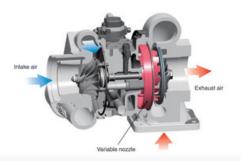


#### **Advanced Electronic Control System**

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 necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

# Komatsu Variable Geometry Turbocharger (KVGT) system

The KVGT 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.



#### Komatsu Auto Idle Shutdown

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.

Auto Idle Stop Timer Setting				
A	OFF			
	5 min.			
	6 min.			
	7 min.			
	8 min.			
₽	9 min.			

#### Secondary Engine Shutdown Switch

A secondary switch is at the side of the front console to shut down the engine.



#### 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, providing close to complete combustion to reduce PM emissions. While this technology is already used in current engines, the new system uses high pressure injection, thereby reducing both PM emissions and fuel consumption over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced fuel consumption and lower soot levels.

#### Hydraulically Driven Cooling Fan

The engine cooling fan rotation speed is electronically controlled. The fan rotation speed depends on engine coolant, powertrain oil and hydraulic oil temperatures. The higher the temperature the higher the fan speed. This system increases fuel efficiency, reduces the operating noise levels and requires less horsepower than a belt driven fan. The fan is manually reversible by the operator for periodic cleaning.



# **PRODUCTIVITY & FUEL ECONOMY FEATURES**

- 2 KOMATSU SAA6D114E-6 engine
- SIGMADOZER®

#### Innovative SIGMADOZER®

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

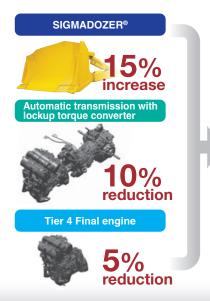
### Production increased by 15%

Compared to conventional Semi-U blade

D65-18 Shown

#### **New Fuel Efficient Bulldozer**

The new D65EXi/PXi-18 has achieved both high levels of productivity and fuel economy with the SIGMADOZER® blade, automatic transmission with lockup torque converter 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 with our conventional model.







SIGMADOZER®

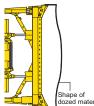








(compared with a conventional Semi-U blade model)



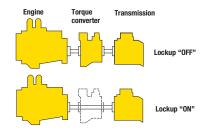
SIGMADOZER®

Semi-U blade

#### Automatic Transmission with Lockup Torque Converter

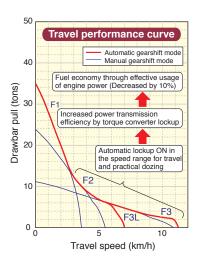
A sharp reduction in fuel consumption and greater power train efficiency is achieved by the automatic gearshift transmission and lock up torque converter. The automatic gearshift transmission selects the optimal gear range depending on the working conditions and load. This means the machine is

designed to operate at maximum efficiency. (Manual gearshift mode is selectable with a switch)



# Fuel consumption reduced by 10%

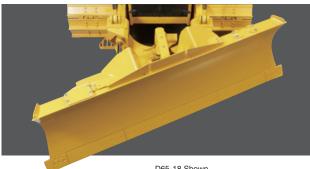
Compared to machine with manual shift transmission



Lockup mechanism of torque converter is automatically actuated to transfer engine power directly to the transmission in usual dozing speed range. Locking up the torque converter eliminates loss of horsepower by 10%. Because the electronically controlled engine is extremely efficient, a decrease in fuel consumption is realized while also maintaining machine power.

#### Power Angle Power Tilt Dozer (optional)

A power angle tilt dozer blade with highly durable box structure frame is available as an option. This blade is available for the PXi machine. The hydraulic tilt and angle function expands versatility and productivity in a variety of applications.



D65-18 Shown

#### Automatic/Manual Gearshift Selectable Mode

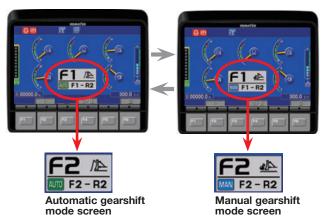
Automatic or manual gearshift modes can be selected to suit the work at hand. Changing modes is achieved by simply pressing a button on the monitor.

#### Automatic gearshift mode

The mode 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 guickly and efficiently carry the material. This mode optimizes fuel use and production. The torque converter lockup mechanism is actuated according to load, creating a direct connection between the engine and tracks.

#### Manual gearshift mode

The mode 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.



#### Selectable Working Mode

Working mode P is the mode aiming for powerful operation and maximum production and mode E for general dozing applications with adequate speed and power while saving energy. For CO<sub>2</sub> reduction and energy saving, the monitor panel allows for switching the working mode with ease, depending on 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)

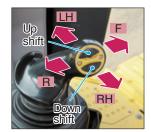
With E mode, the engine outputs enough power for the work without delivering unnecessary power. This mode allows for energy saving operation and is suitable for the work on a ground where the machine may cause shoe slip and the work not requiring large power such as downhill dozing, leveling and light-load work.

# **CONTROL FEATURES**

### Palm Command Electronic Controlled Travel

#### **Control Joystick**

Palm command travel joystick provides the operator with a relaxed posture and superb fine control without operator fatigue. Transmission gear shifting is simplified with thumb push buttons.



F2-R3 MODE

#### **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 operation.

#### Automatic Manual gearshift mode gearshift mode F1-R1 MODE F1-R1 MODE ress DOWN switch 🕇 🗼 Press UP switch ss DOWN switch 🚺 🗼 Press UP switch F1-R2 MODE F1-R2 MODE Press DOWN switch 🕇 🗼 Press UP switch Press DOWN switch The Press UP switch F2-R1 MODE F2-R1 MODE Press DOWN switch 🕇 🗼 Press UP switch Press DOWN switch Press UP switch F2-R2 MODE F2-R2 MODE Press DOWN switch Press DOWN switch

F2-R3L MODE

Press DOWN switch

#### Electronic Controlled Modulation Valve (ECMV) Controlled Transmission and Brakes

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 now 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.



# **WORKING ENVIRONMENT**



D65-18 Shown

#### **Integrated ROPS Cab**

The D65EXi/PXi-18 has a strong integrated ROPS cab. High rigidity and superb sealing performance sharply reduce noise and vibration for the operator and helps prevent dust from

entering the cab. This provides the operator a comfortable working environment. In addition, side visibility is increased because additional external ROPS structure and posts are not required. Outstanding visibility has been achieved.

#### Rear View Monitoring System

The operator can view the rear of the machine with a color monitor screen.





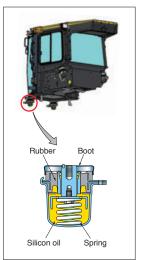


# Comfortable Ride with New Operator Seat and Cab Damper Mounting

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

The D65EXi/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

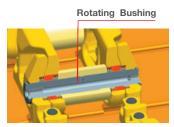
vibration while traveling over adverse conditions, which conventional mounting systems are unable to match. The cab damper spring isolates the cab from the machine body, suppressing vibration and providing a quiet, comfortable operating environment.



# **RELIABILITY & MAINTENANCE FEATURES**

#### Parallel Link Undercarriage System (PLUS)

Komatsu's innovative Parallel Link Undercarriage System features a rotary bushing that demonstrates high durability in any working conditions. Allowing the bushing to rotate virtually eliminates bushing wear,

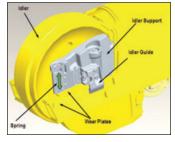


resulting in doubled service life of the undercarriage when compared with the conventional

undercarriage. In addition, wear limits of the link and carrier roller are increased to balance with the extended service life of the bushing.

#### 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.



#### **Oil Pressure Checking Ports**

Pressure checking ports for power train components are centralized to promote quick and simple diagnosis.

#### Wide Core Cooling System

In addition to improved engine compartment sealing, a wide core cooling system is standard. 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 reaches the replacement interval for oil and filters, the monitor panel will display lights to inform the operator.

😟 Air Cleaner Cleaning / Change	-	-
🙆 Engine Oil Grange		
🙆 Engine Oil Filter Gauge		
B Feel Main Filter Quange		
B Fool Pre Filter Ownge		

#### **Battery Disconnect Switch**

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



### D65EXi/PXi-18

### KOMTRAX EQUIPMENT MONITORING



- 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



- 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

KOMATSU



- 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



- 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







# K⊘MTRAX Plus™

For construction and compact equipment.

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 complimentary KDPF replacement 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<sup>®</sup> 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 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

886-923*61/12*251

# SPECIFICATIONS

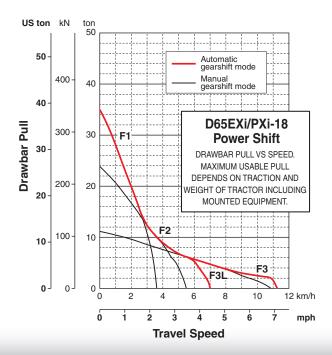
#### ENGL

ModelKomatsu SAA6D114E-6*
Type 4-cycle, water-cooled, direct injection
AspirationKomatsu variable geometry
turbocharged, air-to-air aftercooled
Number of cylinders
Bore x stroke 114 mm x 144.5 mm 4.49" x 5.69"
Piston displacement
GovernorAll-speed and mid-range, electronic
Horsepower
SAE J1995 Gross 164 kW <b>220 HP</b>
ISO 9249 / SAE J1349Net 162 kW <b>217 HP</b>
Rated rpm 1950 rpm
Fan drive typeHydraulic
Lubrication system
Method Gear pump, force lubrication
Filter
**EPA Tier 4 Final emissions certified

#### **TOROFLOW TRANSMISSION**

Komatsu TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 2-phase, torque converter with lockup clutch, 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	3.7 km/h <b>2.3 mph</b>	4.5 km/h <b>2.8 mph</b>
2nd	5.6 km/h <b>3.5 mph</b>	6.7 km/h <b>4.2 mph</b>
3rd L	7.3 km/h <b>4.5 mph</b>	8.7 km/h <b>5.4 mph</b>
3rd	11.3 km/h <b>7.0 mph</b>	13.6 km/h <b>8.5 mph</b>



### 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. Counterrotation 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			
D65EXi-18	1.9	m	6'3"
D65PXi-182	2.2	m	7'3'

### 

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.

#### Tractor for outside mounted blade (Straight Tilt, SIGMADOZER®)\*

		D65EXi-18	D65PXi-18
Number of track rollers (each side	e)	7	8
Type of shoes (standard)		Single grouser	Single grouser
Number of shoes (each side)		42	45
Grouser height	mm in	65 <b>2.6"</b>	65 <b>2.6"</b>
Shoe width (standard)	mm in	610 <b>24"</b>	915 <b>36"</b>
Ground contact area	Cm <sup>2</sup>	36234	59935
	in <sup>2</sup>	5,616	9,290
Ground pressure (tractor)	kPa	56.3	36.2
	kgf/cm <sup>2</sup>	0.57	0.37
	psi	8.15	5.23
Track gauge	mm ft.in	1880 <b>6'2"</b>	2050 <b>6'9"</b>
Length of track on ground	mm ft.in	2970 <b>9'9"</b>	3275 <b>10'9"</b>

#### Tractor for inside mounted blade (PAT)\*

		D65PXi-18
Number of track rollers (each sic	ie)	8
Type of shoes (standard)		Single grouser
Number of shoes (each side)		45
Grouser height	mm <b>in</b>	65 <b>2.6"</b>
Shoe width (standard)	mm <b>in</b>	760 <b>30"</b>
Ground contact area	cm <sup>2</sup>	49780
	in <sup>2</sup>	7,716
Ground pressure	kPa	45.2
(tractor)	kgf/cm <sup>2</sup>	0.46
	psi	6.53
Track gauge	mm ft.in	2230 <b>7'4"</b>
Length of track on ground	mm ft.in	3275 10'9"

\*See page 14 for tractor/blade combinations.

# SPECIFICATIONS



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.



SERVICE REFILL CAPACITI	ES
Fuel tank 415 ltr	109.6 U.S. gal
DEF tank 23.5 ltr	6.2 U.S. gal
Coolant 49 ltr	12.9 U.S. gal
Engine 30.5 ltr	8.1 U.S. gal
Torque converter, transmission,	
bevel gear, and steering system 48 ltr	12.7 U.S. gal
Final drive (each side)	
D65EXi-18 non PAT 16.5 ltr	4.4 U.S. gal
D65PXi-18 22 ltr	5.8 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 248 ltr/min **65.5 U.S. gal/min** at rated engine rpm.

Relief valve setting ...... 27.9 MPa 285 kg/cm<sup>2</sup> **4,050 psi** Control valves:

Spool control valves for SIGMADOZER® or straight tilt dozer

	Ũ	
Positions:	Blade lift	Raise, hold, lower, and float
	Blade tilt	Right, hold, and left
	Blade angle	Right, hold, and left
	Rear attachment	Raise, hold, and lower

Hydraulic cylinders......Double-acting, piston

		Bore		
	Number of cylinders	SIGMADOZER® Straight Tilt Dozer	Power Angle Power Tilt Dozer	
Blade lift	2	85 mm <b>3.3"</b>	90 mm <b>3.5"</b>	
Blade tilt	1	125 mm <b>4.9"</b>	130 mm <b>5.1"</b>	
Blade angle	2	N/A	110 mm <b>4.3"</b>	
Ripper lift	1	125 mm <b>4.9"</b>	125 mm <b>4.9"</b>	
Pitch angle	1	39° - 53°	52° - 58°	

Hydraulic oil capacity (refill):	16.4 U.S. gal
Ripper equipment (additional volume):	
Multi-shank ripper7 Itr	1.8 U.S. gal

### 

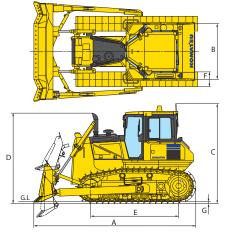
Blade capacities are based on the SAE recommended practice J1265. Use of high tensile strength steel in moldboard for strengthened blade construction.

	Overall Length With Dozer mm ft.in	Blade Capacity m <sup>3</sup> yd <sup>3</sup>	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/cm² psi
D65EXi-18	5490	5.61	3410 x 1425	1135	500	870	2390	55.8/0.57/ <b>8.13</b>
SIGMADOZER®	18'0"	7.34	11'2" x 4'8"	3'9"	1'8"	2'10"	5,260	
D65PXi-18	5680	3.69	3970 x 1100	1130	535	890	2100	
Straight Tilt Dozer	18'8"	4.83	13'0" x 3'7"	3'8"	1'9"	2'11"	4,630	36.0/0.37/ <b>5.20</b>
D65PXi-18 Power Angle	5790	4.42	4010 x 1235	1170	695	520	2990	
Tilt Dozer	19'0"	5.78	13'2" x 4'1"	3'10"	2'3"	1'8"	6,590	46.4/0.47/ <b>6.73</b>

#### **DIMENSIONS - OUTSIDE MOUNTED DOZER BLADE**

	D65EX SIGMAD		D65PXi-18 Straight Tilt Dozer		
А	5490 mm	18'0"	5680 mm	18'8'	
В	1880 mm	6'2"	2050 mm	6'9"	
С	3330 mm	10'11"*	3330 mm	10'11"*	
D	3085 mm	10'1"	3085 mm	10'1"	
Е	2970 mm	9'9"	3275 mm	10'9"	
F	610 mm	24"	915 mm	36"	
G	65 mm	2.6"	65 mm	2.6"	

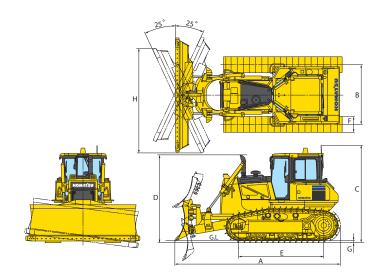




Shown with SIGMADOZER® single grouser shoe.



Ground clearance ...... 415 mm 1'4"



Shown with Power Angle Tilt dozer single grouser shoe.

### OPERATING WEIGHT

Tractor weight:

D65PXi-18 20000 kg 4	4,000 lb

for PAT dozer

D65PXi-18	 19970 kg	43,930 lb

#### Operating weight:

	20010 Ng <b>40,100 lb</b>
D65PXi-18	22100 kg <b>48,620 lb</b>

#### for PAT dozer



#### 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
- Fenders

<u>36-923</u> 1255 26

- Front pull hook
- High mount foot rests
- Horn, warning
- Hydraulic driven radiator cooling
- fan with reverse clean mode
- Hydraulics for rear equipment
- KOMTRAX® Level 5
- Komatsu Diesel Particulate Filter (KDPF)
- Komatsu Variable Geometry Turbocharger
- (KVGT)
- Locks, filler caps and covers
- Muffler with curved exhaust pipe

### **OPTIONAL EQUIPMENT**

- Dozer assembly
- Drawbar, long type
- Hitch
- Rear counterweight 850 kg 1,870 lb
- Track roller guard, full length

- Oil pressure check ports for power train
- Operator ID function
- PM service connector
- Radiator mask, heavy-duty, hinged, perorated
- 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

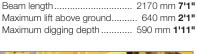
- Rear view monitoring (1 camera)
   AM/FM Radio w/remote AUX plug (3.5 mm)
- Shovel holder

#### Work lights

- 2 front, hood mounted
  2 front, cab mounted
  1 rear, left fender mounted
- 2 rear, cab mounted
- 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
- Secondary engine shutoff switch
- Starting motor, 11.0 kW/24V

Multi-shank ripper (for D65EXi-18) Weight..... 1920 kg 4,230 lb

- Steering system:
- Hydrostatic Steering System (HSS)
- Torque converter with auto lock-up
- Track roller guards, center and end sections
- Track shoe assembly
- Heavy-Duty lubricated rotary bushing (PLUS) track
- 610 mm 24" single grouser shoe (EXi with outside mount blade)
- 760 mm 30" single grouser shoe (PXi with PAT)
- 915 mm 36" single grouser shoe (PXi with outside mount blade)
- 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







1325 kg 2,900 lb

**ALLIED MANUFACTURER'S ATTACHMENTS (SHIPPED LOOSE)** 

AESS887-00

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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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04/15 (EV-2)

AD02(Electronic View Only)

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### Hydraulic winch - Allied H6H