

# **Technical Manual**

## **Operational Principle**

# **ZAXIS**

### **200-3 class**

200-3•200LC-3•210H-3•210LCH-3•210K-3•210LCK-3•210-3•210LC-3•  
210LCN-3•240N-3

### **225US-3 class**

225US-3•225USLC-3

### **225USR-3 class**

225USR-3•225USRLC-3•225USRK-3•225USRLCK-3

### **240-3 class**

240-3•240LC-3•250H-3•250LC-3•250LCN-3•250LCH-3•250K-3•250LCK-3

### **270-3 class**

270-3•270LC-3•280LC-3•280LCN-3

# **Hydraulic Excavator**

Service Manual consists of the following separate Part No;  
Technical Manual (Operational Principle) : Vol. No. TO1V1-E  
Technical Manual (Troubleshooting) : Vol. No. TT1V1-E  
Workshop Manual : Vol. No. W1V1-E



# INTRODUCTION

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## TO THE READER

- This manual is written for an experienced technician to provide technical information needed to maintain and repair this machine.
- Be sure to thoroughly read this manual for correct product information and service procedures.
- If you have any questions or comments, at if you found any errors regarding the contents of this manual, please contact using "Service Manual Revision Request Form" at the end of this manual. (Note: Do not tear off the form. Copy it for usage.):

Publications Marketing & Product Support  
Hitachi Construction Machinery Co. Ltd.  
TEL: 81-298-32-7173  
FAX: 81-298-31-1162

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## ADDITIONAL REFERENCES

- Please refer to the materials listed below in addition to this manual.
  - The Operator's Manual
  - The Parts Catalog
  - Operation Manual of the Engine
  - Parts Catalog of the Engine
  - Hitachi Training Material

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## MANUAL COMPOSITION

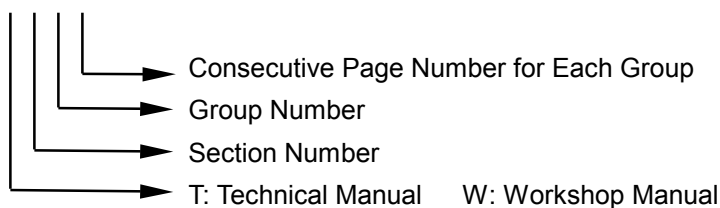
- This manual consists of three portions: the Technical Manual (Operational Principle), the Technical Manual (Troubleshooting) and the Workshop Manual.
- Information included in the Technical Manual (Operational Principle): technical information needed for redelivery and delivery, operation and activation of all devices and systems.
- Information included in the Technical Manual (Troubleshooting): technical information needed for operational performance tests, and troubleshooting procedures.
- Information included in the Workshop Manual: technical information needed for maintenance and repair of the machine, tools and devices needed for maintenance and repair, maintenance standards, and removal/installation and assemble/disassemble procedures.

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## PAGE NUMBER

- Each page has a number, located on the center lower part of the page, and each number contains the following information:


Example : T 1-3-5



# INTRODUCTION


## SAFETY ALERT SYMBOL AND HEADLINE NOTATIONS

In this manual, the following safety alert symbol and signal words are used to alert the reader to the potential for personal injury or machine damage.


 This is the safety alert symbol. When you see this symbol, be alert to the potential for personal injury. Never fail to follow the safety instructions prescribed along with the safety alert symbol.

The safety alert symbol is also used to draw attention to component/part weights.

To avoid injury and damage, be sure to use appropriate lifting techniques and equipment when lifting heavy parts.

-  **CAUTION:**  
Indicated potentially hazardous situation which could, if not avoided, result in personal injury or death.

- **IMPORTANT:**  
Indicates a situation which, if not conformed to the instructions, could result in damage to the machine.

-  **NOTE:**  
Indicates supplementary technical information or know-how.

## UNITS USED

- SI Units (International System of Units) are used in this manual. MKSA system units and English units are also indicated in parentheses just behind SI units.

Example : 24.5 MPa (250 kgf/cm<sup>2</sup>, 3560 psi)

A table for conversion from SI units to other system units is shown below for reference purposes.

Quantity	To Convert From	Into	Multiply By	Quantity	To Convert From	Into	Multiply By
Length	mm	in	0.03937	Pressure	MPa	kgf/cm <sup>2</sup>	10.197
	mm	ft	0.003281		MPa	psi	145.0
Volume	L	US gal	0.2642	Power	kW	PS	1.360
	L	US qt	1.057		kW	HP	1.341
	m <sup>3</sup>	yd <sup>3</sup>	1.308	Temperature	°C	°F	°C×1.8+32
Weight	kg	lb	2.205	Velocity	km/h	mph	0.6214
Force	N	kgf	0.10197		min <sup>-1</sup>	rpm	1.0
	N	lbf	0.2248	Flow rate	L/min	US gpm	0.2642
Torque	N·m	kgf·m	1.0197		mL/rev	cc/rev	1.0
	N·m	lbf·ft	0.7375				



**SECTION AND GROUP CONTENTS**

**TECHNICAL MANUAL**

**(Operational Principle)**

**SECTION 1 GENERAL**

Group 1 Specification	
Group 2 Component Layout	
Group 3 Component Specifications	

**SECTION 2 SYSTEM**

Group 1 Controller	
Group 2 Control System	
Group 3 ECM System	
Group 4 Hydraulic System	
Group 5 Electrical System	

**SECTION 3 COMPONENT OPERATION**

Group 1 Pump Device	
Group 2 Swing Device	
Group 3 Control Valve	
Group 4 Pilot Valve	
Group 5 Travel Device	
Group 6 Signal Control Valve	
Group 7 Others (Upperstructure)	
Group 8 Others (Undercarriage)	

**TECHNICAL MANUAL (Troubleshooting)**

**SECTION 4 OPERATIONAL PERFORMANCE TEST**

Group 1 Introduction
Group 2 Standard
Group 3 Engine Test
Group 4 Excavator Test
Group 5 Component Test

**SECTION 5 TROUBLESHOOTING**

Group 1 Diagnosing Procedure
Group 2 Monitor Unit
Group 3 Dr. ZX
Group 4 e-Shovel
Group 5 Component Layout
Group 6 Troubleshooting A
Group 7 Troubleshooting B
Group 8 Electrical System Inspection

*All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.*

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## WORKSHOP MANUAL

### SECTION 1 GENERAL INFORMATION

- Group 1 Precautions for Disassembling and Assembling
- Group 2 Tightening Torque
- Group 3 Painting
- Group 4 Bleeding Air from Hydraulic Oil Tank

### SECTION 2 UPPERSTRUCTURE

- Group 1 Cab
- Group 2 Counterweight
- Group 3 Main Frame
- Group 4 Pump Device
- Group 5 Control Valve
- Group 6 Swing Device
- Group 7 Pilot Valve
- Group 8 Pilot Shut-Off Solenoid Valve
- Group 9 Signal Control Valve
- Group 10 4-Spool Solenoid Valve Unit
- Group 11 Engine

### SECTION 3 UNDERCARRIAGE

- Group 1 Swing Bearing
- Group 2 Travel Device
- Group 3 Center Joint
- Group 4 Track Adjuster
- Group 5 Front Idler
- Group 6 Upper and Lower Roller
- Group 7 Track

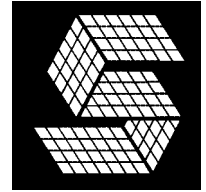
### SECTION 4 FRONT ATTACHMENT

- Group 1 Front Attachment
  - Group 2 Cylinder
  - Group 3 Control Valve
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# SECTION 1 GENERAL



## —CONTENTS—

### Group 1 Specifications

Specifications .....	T1-1-1
Working Ranges.....	T1-1-8

### Group 2 Component Layout

Main Components .....	T1-2-1
Electrical System (Overview).....	T1-2-4
Electrical System (IN CAB).....	T1-2-6
Electrical System (Rear Tray).....	T1-2-8
Electrical System (Switch Panel) .....	T1-2-10
Electrical System (Around Air Cleaner)...	T1-2-11
Electrical System (Relays).....	T1-2-12
Engine.....	T1-2-13
Pump Device.....	T1-2-14
Around Pump Device.....	T1-2-14
Swing Device .....	T1-2-15
Control Valve.....	T1-2-16
Signal Control Valve .....	T1-2-16
Solenoid Valve Unit .....	T1-2-17
Travel Device .....	T1-2-17
Layout of Attachmet Spec. Parts .....	T1-2-18

### Group 3 Component Specifications

Engine.....	T1-3-1
Engine Accessories .....	T1-3-7
Hydraulic Component.....	T1-3-9
Electrical Component .....	T1-3-17

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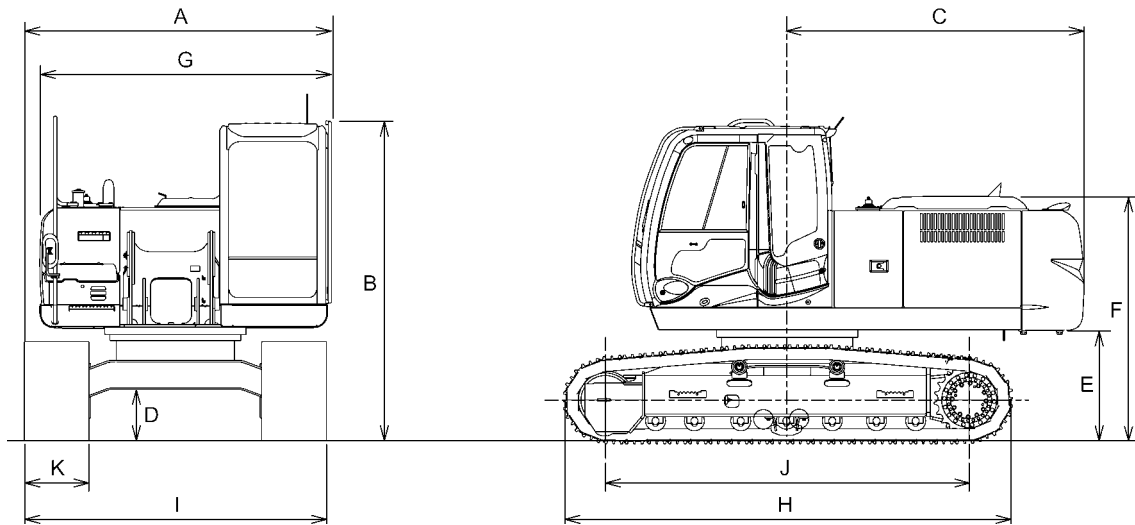
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## GENERAL / Specifications

### SPECIFICATIONS

ZAXIS200-3, ZAXIS200LC-3, ZAXIS210H-3, ZAXIS210LCH-3



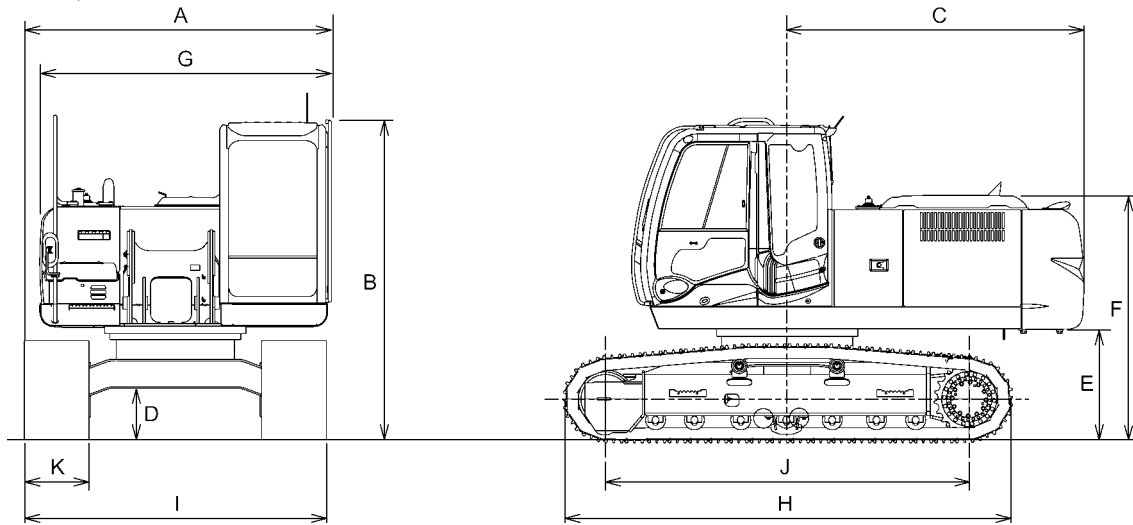
T1V1-01-01-006

Model	ZAXIS200-3	ZAXIS200LC-3	ZAXIS210H-3	ZAXIS210LCH-3
Type of Front-End Attachment	2.91 m (9 ft 7 in) Arm		2.91 m (9 ft 7 in) H Arm	
Bucket Capacity (Heaped)	PCSA 0.8 m <sup>3</sup> (1.05 yd <sup>3</sup> ), CECE 0.7 m <sup>3</sup>			
Operating Weight	19800 kg (43700 lb)	20400 kg (44974 lb)	21000 kg (46297 lb)	21500 kg (47399 lb)
Basic Machine Weight	15400 kg (34000 lb)	16000 kg (35274 lb)	16400 kg (36155 lb)	16800 kg (37037 lb)
Engine	ISUZU AI-4HK1XYSA-02 122 kW/2000 min <sup>-1</sup> (166 PS/2000 rpm)			
A: Overall Width (Excluding back mirrors)	2860 mm (9 ft 5 in)	2990 (9 ft 10 in)	2860 (9 ft 5 in)	2990 (9 ft 10 in)
B: Cab Height	2950 mm (9 ft 8 in)			
C: Rear End Swing Radius	2750 mm (9 ft 0 in)			
D: Minimum Ground Clearance	* 450 mm (18 in)			
E: Counterweight Clearance	* 1030 mm (3 ft 5 in)			
F: Engine Cover Height	* 2270 mm (7 ft 5 in)			
G: Overall Width of Upperstructure	2710 mm (8 ft 11 in)			
H: Undercarriage Length	4170 mm (13 ft 8 in)	4470 mm (14 ft 8 in)	4170 mm (13 ft 8 in)	4470 mm (14 ft 8 in)
I: Undercarriage Width	2800 mm (9 ft 2 in)	2990 mm (9 ft 10 in)	2800 mm (9 ft 2 in)	2990 mm (9 ft 10 in)
J: Sprocket Center to Idler Center	3370 mm (11 ft 1 in)	3660 mm (12 ft 0 in)	3370 mm (11 ft 1 in)	3660 mm (12 ft 0 in)
K: Track Shoe Width	600 mm (24 in) (Grouser shoe)		600 mm (24 in) (Enhanced grouser shoe)	
Ground Pressure	44 kPa (0.45 kgf/cm <sup>2</sup> , 6.4 psi)	42 kPa (0.43 kgf/cm <sup>2</sup> , 6.1 psi)	47 kPa (0.48 kgf/cm <sup>2</sup> , 6.8 psi)	44 kPa (0.45 kgf/cm <sup>2</sup> , 6.4 psi)
Swing Speed	13.3 min <sup>-1</sup> (rpm)			
Travel Speed (fast/slow)	5.5/3.5 km/h (3.4/2.2 mph)			
Gradeability	35° (tan θ = 0.70)			

NOTE: "\*" The dimensions do not include height of the shoe lug.

## GENERAL / Specifications

### ZAXIS210K-3, 210LCK-3



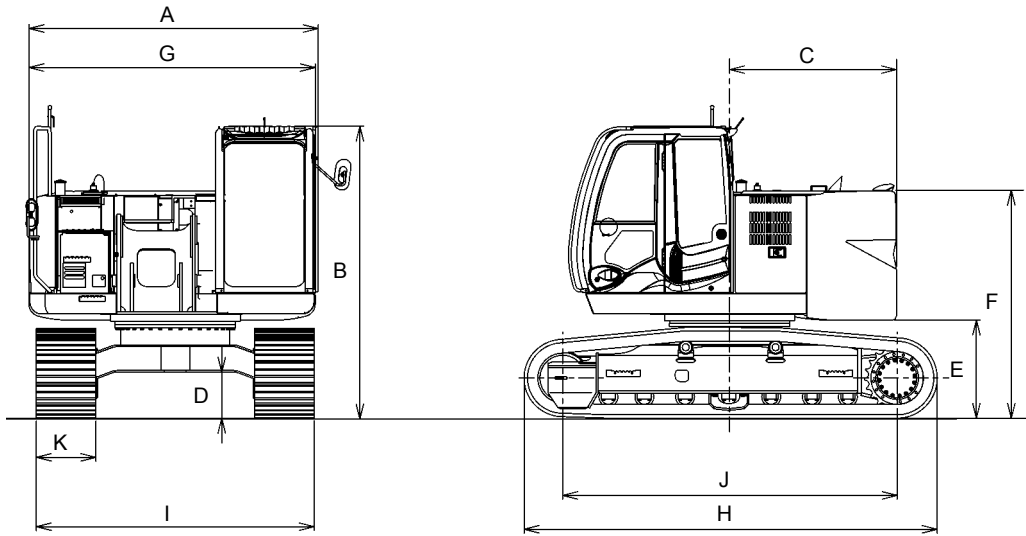
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Model	ZAXIS210K-3		ZAXIS210LCK-3	
	Standard	High-Grade	Standard	High-Grade
Type of Front-End Attachment	2.91 m (9 ft 7 in) K Arm			
Bucket Capacity (Heaped)	PCSA 0.8 m <sup>3</sup> (1.05 yd <sup>3</sup> ), CECE 0.7 m <sup>3</sup>			
Operating Weight	21100 kg (46517 lb)	21900 kg (48218 lb)	21600 kg (47619 lb)	22300 kg (19163 lb)
Basic Machine Weight	16400 kg (36155 lb)	17100 kg (37699 lb)	16800 kg (37037 lb)	17500 kg (38581 lb)
Engine	ISUZU AI-4HK1XYSA-02 122 kW/2000 min <sup>-1</sup> (166 PS/2000 rpm)			
A: Overall Width (Excluding back mirrors)	2860 mm (9 ft 5 in)		2990 mm (9 ft 10 in)	
B: Cab Height	2950 mm (9 ft 8 in)	3080 mm (10 ft 1 in)	2950 mm (9 ft 8 in)	3080 mm (10 ft 1 in)
C: Rear End Swing Radius	2750 mm (9 ft 0 in)			
D: Minimum Ground Clearance	* 450 mm (18 in)			
E: Counterweight Clearance	* 1030 mm (3 ft 5 in)			
F: Engine Cover Height	* 2270 mm (7 ft 5 in)			
G: Overall Width of Upperstructure	2710 mm (8 ft 11 in)			
H: Undercarriage Length	4170 mm (13 ft 8 in)		4470 mm (14 ft 8 in)	
I: Undercarriage Width	2800 mm (9 ft 2 in)		2990 mm (9 ft 10 in)	
J: Sprocket Center to Idler Center	3370 mm (11 ft 1 in)		3660 mm (12 ft 0 in)	
K: Track Shoe Width	600 mm (24 in) (Enhanced grouser shoe)			
Ground Pressure	47 kPa (0.48 kgf/cm <sup>2</sup> , 6.8 psi)	49 kPa (0.50 kgf/cm <sup>2</sup> , 7.1 psi)	45 kPa (0.46 kgf/cm <sup>2</sup> , 6.5 psi)	46 kPa (0.47 kgf/cm <sup>2</sup> , 6.7 psi)
Swing Speed	13.3 min <sup>-1</sup> (rpm)			
Travel Speed (fast/slow)	5.5/3.5 km/h (3.4/2.2 mph)			
Gradeability	35° (tan θ = 0.70)			

NOTE: “\*” The dimensions do not include height of the shoe lug.

## GENERAL / Specifications

### ZAXIS225US-3, 225USLC-3



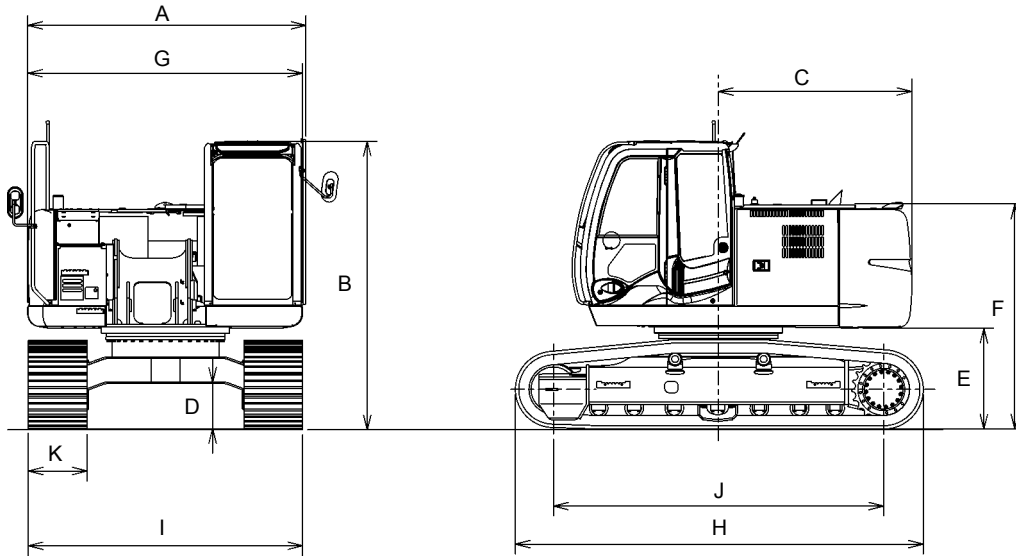
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Model	ZAXIS225US-3	ZAXIS225USLC-3
Type of Front-End Attachment	2.91 m (9 ft 7 in) Arm	
Bucket Capacity (Heaped)	PCSA 0.8 m <sup>3</sup> (1.05 yd <sup>3</sup> ), CECE 0.7 m <sup>3</sup>	
Operating Weight	23200 kg (51147 lb)	23600 kg (52029 lb)
Basic Machine Weight	19000 kg (41887 lb)	19400 kg (42769 lb)
Engine	ISUZU AI-4HK1XYSA-02 122 kW/2000 min <sup>-1</sup> (166 PS/2000 rpm)	
A: Overall Width (Excluding back mirrors)	2940 mm (9 ft 8 in)	2990 mm (9 ft 10 in)
B: Cab Height	2950 mm (9 ft 8 in)	
C: Rear End Swing Radius	1680 mm (5 ft 6 in)	
D: Minimum Ground Clearance	* 450 mm (18 in)	
E: Counterweight Clearance	* 975 mm (3 ft 2 in)	
F: Engine Cover Height	* 2300 mm (7 ft 7 in)	
G: Overall Width of Upperstructure	2870 mm (9 ft 5 in)	
H: Undercarriage Length	4170 mm (13 ft 8 in)	4460 mm (14 ft 8 in)
I: Undercarriage Width	2800 mm (9 ft 2 in)	2990 mm (9 ft 10 in)
J: Sprocket Center to Idler Center	3370 mm (11 ft 1 in)	3660 mm (12 ft 0 in)
K: Track Shoe Width	600 mm (24 in) (Grouser shoe)	
Ground Pressure	52 kPa (0.53 kgf/cm <sup>2</sup> , 7.6 psi)	49 kPa (0.50 kgf/cm <sup>2</sup> , 7.1 psi)
Swing Speed	13.3 min <sup>-1</sup> (rpm)	
Travel Speed (fast/slow)	5.5/3.5 km/h (3.4/2.2 mph)	
Gradeability	35° (tanθ = 0.70)	

NOTE: “\*” The dimensions do not include height of the shoe lug.

## GENERAL / Specifications

### ZAXIS225USR-3, 225USRCLC-3, 225USRK-3, 225USRCLC-3



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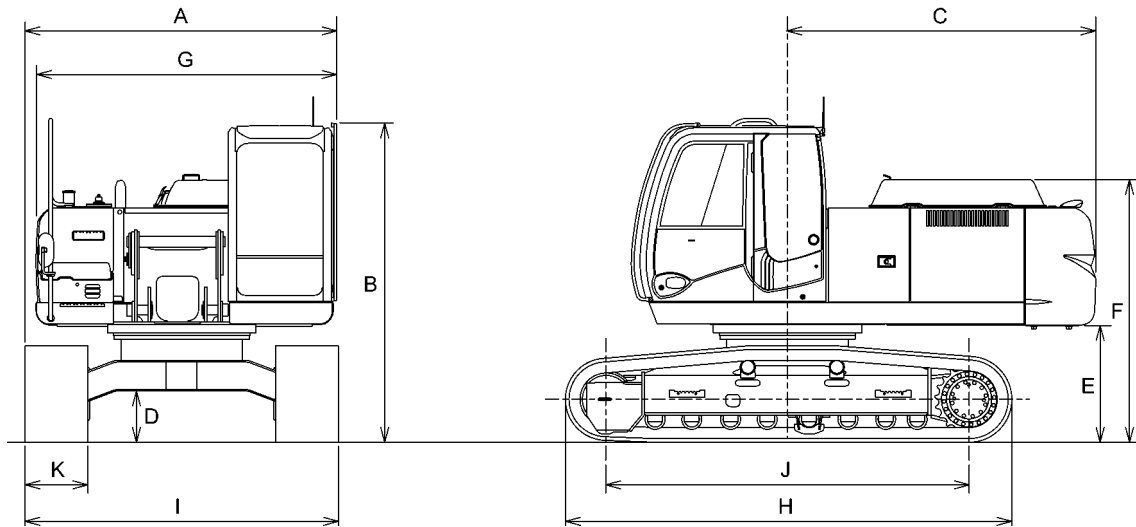
Model	ZAXIS225USR-3	ZAXIS225USRCLC-3	ZAXIS225USRK-3	ZAXIS225USRCLC-3
Type of Front-End Attachment	2.91 m (9 ft 7 in) Arm		2.91 m (9 ft 7 in) H Arm	
Bucket Capacity (Heaped)	PCSA 0.8 m <sup>3</sup> (1.05 yd <sup>3</sup> ), CECE 0.7 m <sup>3</sup>			
Operating Weight	22300 kg (49163 lb)	22700 kg (50044 lb)	23400 kg (51588 lb)	23900 kg (52690 lb)
Basic Machine Weight	18000 kg (39683 lb)	18400 kg (40565 lb)	18800 kg (41447 lb)	19200 kg (42328 lb)
Engine	ISUZU AI-4HK1XYSA-02 122 kW/2000 min <sup>-1</sup> (166 PS/2000 rpm)			
A: Overall Width (Excluding back mirrors)	2860 mm (9 ft 5 in)	2990 (9 ft 10 in)	2860 (9 ft 5 in)	2990 (9 ft 10 in)
B: Cab Height	2950 mm (9 ft 8 in)		3080 mm ( ft in)	
C: Rear End Swing Radius	1990 mm (6 ft 6 in)			
D: Minimum Ground Clearance	* 450 mm (18 in)			
E: Counterweight Clearance	* 1010 mm (3 ft 4 in)			
F: Engine Cover Height	* 2300 mm (7 ft 7 in)			
G: Overall Width of Upperstructure	2790 mm (9 ft 2 in)			
H: Undercarriage Length	4170 mm (13 ft 8 in)	4460 mm (14 ft 8 in)	4170 mm (13 ft 8 in)	4460 mm (14 ft 8 in)
I: Undercarriage Width	2800 mm (9 ft 2 in)	2990 mm (9 ft 10 in)	2800 mm (9 ft 2 in)	2990 mm (9 ft 10 in)
J: Sprocket Center to Idler Center	3370 mm (11 ft 1 in)	3660 mm (12 ft 0 in)	3370 mm (11 ft 1 in)	3660 mm (12 ft 0 in)
K: Track Shoe Width	600 mm (24 in) (Grouser shoe)		600 mm (24 in) (Enhanced grouser shoe)	
Ground Pressure	50 kPa (0.51 kgf/cm <sup>2</sup> , 7.3 psi)	47 kPa (0.48 kgf/cm <sup>2</sup> , 6.8 psi)	52 kPa (0.53 kgf/cm <sup>2</sup> , 7.6 psi)	50 kPa (0.51 kgf/cm <sup>2</sup> , 7.3 psi)
Swing Speed	13.3 min <sup>-1</sup> (rpm)			
Travel Speed (fast/slow)	5.5/3.5 km/h (3.4/2.2 mph)			
Gradeability	35° (tanθ = 0.70)			

NOTE: “\*” The dimensions do not include height of the shoe lug.



## GENERAL / Specifications

### ZAXIS240-3, ZAXIS240LC-3, ZAXIS250H-3, ZAXIS250LCH-3



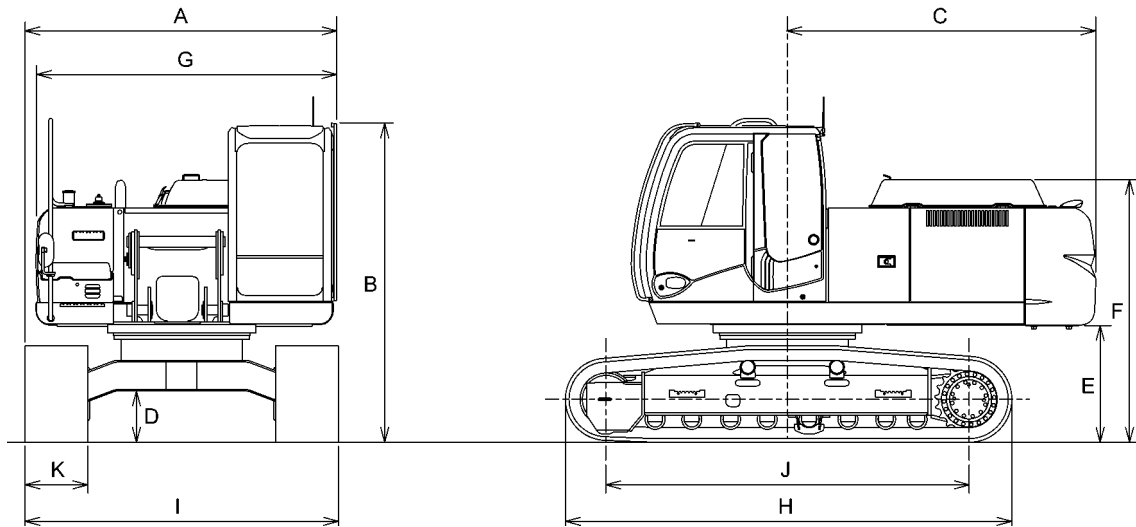
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Model	ZAXIS240-3	ZAXIS240LC-3	ZAXIS250H-3	ZAXIS250LCH-3
Type of Front-End Attachment	2.96 m (9 ft 9 in) Arm		2.96 m (9 ft 9 in) H Arm	
Bucket Capacity (Heaped)	PCSA 1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> ), CECE 0.9 m <sup>3</sup>			
Operating Weight	23400 kg (51600 lb)	23900 kg (52690 lb)	24700 kg (54454 lb)	25300 kg (55776 lb)
Basic Machine Weight	17800 kg (39200 lb)	18400 kg (40565 lb)	18900 kg (41667 lb)	19500 kg (42990 lb)
Engine	ISUZU AH-4HK1XYSA-01 132kW/2000 min <sup>-1</sup> (180 PS/2000 rpm)			
A: Overall Width (Excluding back mirrors)	2990 mm (9 ft 10 in)	3190 (10 ft 6 in)	2990 mm (9 ft 10 in)	3190 (10 ft 6 in)
B: Cab Height	3010 mm (9 ft 11 in)			
C: Rear End Swing Radius	2940 mm (9 ft 8 in)			
D: Minimum Ground Clearance	* 460 mm (18 in)			
E: Counterweight Clearance	* 1090 mm (3 ft 7 in)			
F: Engine Cover Height	* 2425 mm (7 ft 12 in)			
G: Overall Width of Upperstructure	2890 mm (9 ft 6 in)			
H: Undercarriage Length	4260 mm (13 ft 12 in)	4640 mm (15 ft 3 in)	4260 mm (13 ft 12 in)	4640 mm (15 ft 3 in)
I: Undercarriage Width	2990 mm (9 ft 10 in)	3190 mm (10 ft 6 in)	2990 mm (9 ft 10 in)	3190 mm (10 ft 6 in)
J: Sprocket Center to Idler Center	3463 mm (11 ft 4 in)	3845 mm (12 ft 7 in)	3463 mm (11 ft 4 in)	3845 mm (12 ft 7 in)
K: Track Shoe Width	600 mm (24 in) (Grouser shoe)		600 mm (24 in) (Enhanced grouser shoe)	
Ground Pressure	51 kPa (0.52 kgf/cm <sup>2</sup> , 7.4 psi)	47 kPa (0.48 kgf/cm <sup>2</sup> , 6.8 psi)	54 kPa (0.55 kgf/cm <sup>2</sup> , 7.6 psi)	50 kPa (0.51 kgf/cm <sup>2</sup> , 7.3 psi)
Swing Speed	13.5 min <sup>-1</sup> (rpm)			
Travel Speed (fast/slow)	5.5/3.4 km/h (3.4/2.1 mph)			
Gradeability	35° (tanθ = 0.70)			

NOTE: “\*” The dimensions do not include height of the shoe lug.

## GENERAL / Specifications

### ZAXIS250K-3, 250LCK-3



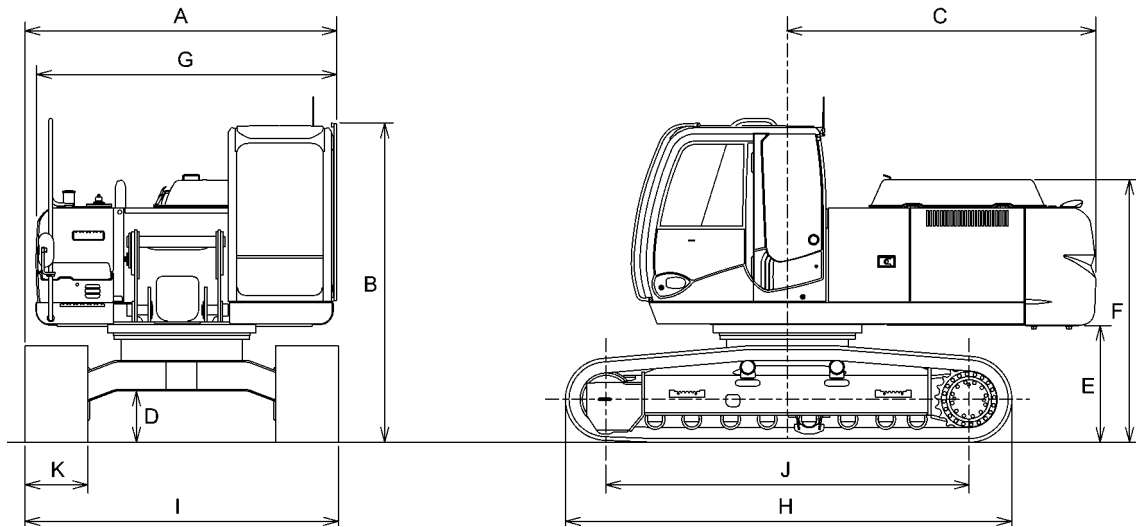
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Model	ZAXIS250K-3	ZAXIS250LCK-3
Type of Front-End Attachment	2.96 m (9 ft 9 in) K Arm	
Bucket Capacity (Heaped)	PCSA 1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> ), CECE 0.9 m <sup>3</sup>	
Operating Weight	25400 kg (55997 lb)	26000 kg (57320 lb)
Basic Machine Weight	19500 kg (42990 lb)	20100 kg (44312 lb)
Engine	ISUZU AH-4HK1XYSA-01 132 kW/2000 min <sup>-1</sup> (180 PS/2000 rpm)	
A: Overall Width (Excluding back mirrors)	2990 mm (9 ft 10 in)	3190 mm ( ft in)
B: Cab Height	3140 mm (10 ft 4 in)	
C: Rear End Swing Radius	2940 mm (9 ft 8 in)	
D: Minimum Ground Clearance	* 460 mm (18 in)	
E: Counterweight Clearance	* 1090 mm (3 ft 7 in)	
F: Engine Cover Height	* 2425 mm (7 ft 12 in)	
G: Overall Width of Upperstructure	2890 mm (9 ft 6 in)	
H: Undercarriage Length	4260 mm (13 ft 12 in)	4460 mm (14 ft 8 in)
I: Undercarriage Width	2990 mm (9 ft 10 in)	3190 mm (10 ft 6 in)
J: Sprocket Center to Idler Center	3463 mm (11 ft 4 in)	3845 mm (12 ft 7 in)
K: Track Shoe Width	600 mm (24 in) (Enhanced grouser shoe)	
Ground Pressure	56 kPa (0.57 kgf/cm <sup>2</sup> , 8.1 psi)	42 kPa (0.43 kgf/cm <sup>2</sup> , 6.1 psi)
Swing Speed	13.5 min <sup>-1</sup> (rpm)	
Travel Speed (fast/slow)	5.5/3.4 km/h (3.4/2.1 mph)	
Gradeability	35° (tanθ = 0.70)	

**NOTE:** “\*” The dimensions do not include height of the shoe lug.

## GENERAL / Specifications

### ZAXIS270-3, ZAXIS270LC-3



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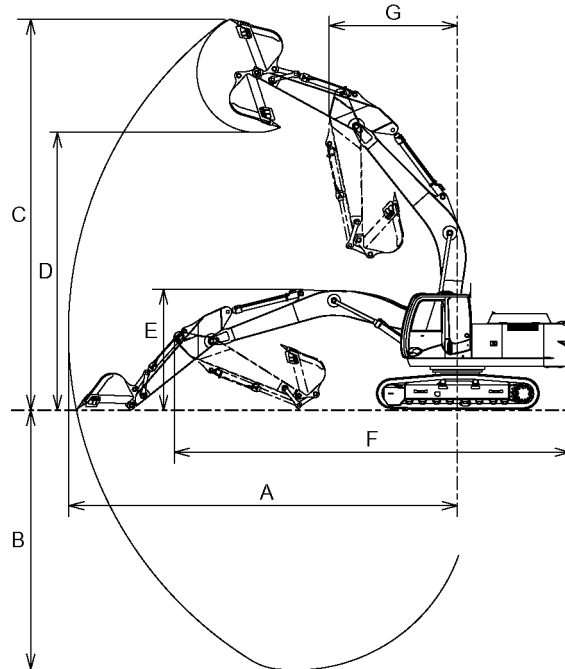
Model	ZAXIS270-3	ZAXIS270LC-3
Type of Front-End Attachment	3.11 m (10 ft 2 in) Arm	
Bucket Capacity (Heaped)	PCSA 1.1 m <sup>3</sup> (1.44 yd <sup>3</sup> ), CECE 1.0 m <sup>3</sup>	
Operating Weight	27300 kg (60200 lb)	27800 kg (61288 lb)
Basic Machine Weight	21300 kg (47000 lb)	21800 kg (48060 lb)
Engine	ISUZU AH-4HK1XSA-03 140 kW/2100 min <sup>-1</sup> (190 PS/2100 rpm)	
A: Overall Width (Excluding back mirrors)	3190 mm (10 ft 6 in)	
B: Cab Height	3100 mm (10 ft 2 in)	
C: Rear End Swing Radius	2940 mm (9 ft 8 in)	
D: Minimum Ground Clearance	* 510 mm (20 in)	
E: Counterweight Clearance	* 1180 mm (3 ft 11 in)	
F: Engine Cover Height	* 2515 mm (8 ft 3 in)	
G: Overall Width of Upperstructure	2890 mm (9 ft 6 in)	
H: Undercarriage Length	4670 mm (15 ft 4 in)	4940 mm (16 ft 2 in)
I: Undercarriage Width	3190 mm (10 ft 6 in)	
J: Sprocket Center to Idler Center	3720 mm (12 ft 3 in)	4052 mm (13 ft 4 in)
K: Track Shoe Width	600 mm (24 in) (Grouser shoe)	
Ground Pressure	55 kPa (0.56 kgf/cm <sup>2</sup> , 8.0 psi)	52 kPa (0.53 kgf/cm <sup>2</sup> , 7.6 psi)
Swing Speed	12.6 min <sup>-1</sup> (rpm)	
Travel Speed (fast/slow)	5.5/3.3 km/h (3.4/2.1 mph)	
Gradeability	35° (tan θ = 0.70)	

**NOTE:** “\*” The dimensions do not include height of the shoe lug.

## GENERAL / Specifications

### WORKING RANGES

ZAXIS200-3, ZAXIS200LC-3, ZAXIS210H-3, ZAXIS210LCH-3  
(Grouser Shoe)



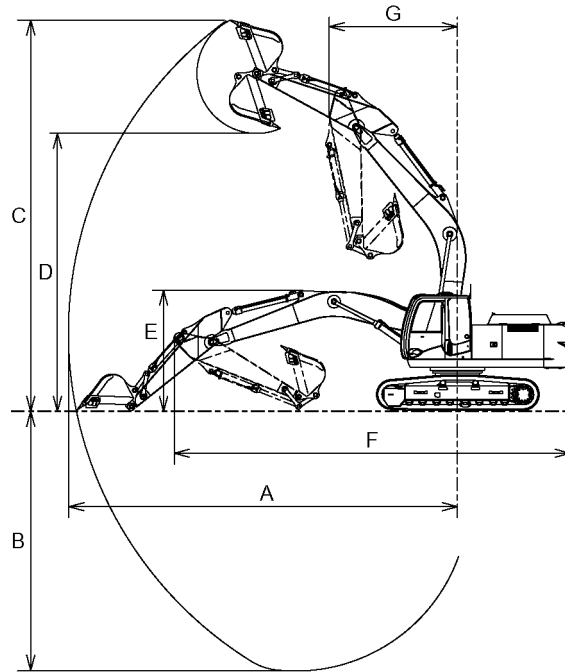
T1V1-01-01-002

Item	Model	ZAXIS200-3, 200LC-3				ZAXIS210H-3, 210LCH-3	
	Category	2.42 m (7 ft 11in) Arm		2.91 m (9 ft 7 in) Arm		2.91 m (9 ft 7 in) H Arm	
		Backhoe		Backhoe		Backhoe	
		mm	ft·in	mm	ft·in	mm	ft·in
A: Maximum Digging Reach		9430	30'11"	9920	32'7"	9920	32'7"
B: Maximum Digging Depth		6180	20'3"	6670	21'11"	6670	21'11"
C: Maximum Cutting Height		9670	31'9"	10040	32'11"	10040	32'11"
D: Maximum Dumping Height		6830	22'5"	7180	23'7"	7180	23'7"
E: Transport Height		3180	10'5"	3010	9'11"	3010	9'11"
F: Overall Transport Length		9605	31'6"	9520	31'3"	9520	31'3"
G: Minimum Swing Radius		3280	10'9"	3180	10'5"	3180	10'5"

NOTE: The dimensions do not include height of the shoe lug (except Item E).

## GENERAL / Specifications

**ZAXIS210K-3, 210LCK-3**  
**(Grouser Shoe)**



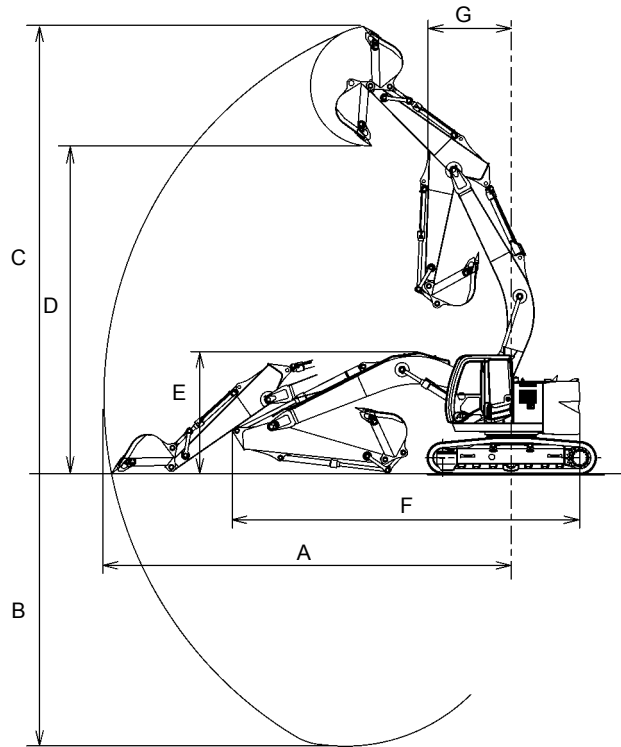
T1V1-01-01-002

Item	Model	ZAXIS210H-3, 210LCH-3	
	Category	2.91 m (9 ft 7 in) K Arm	
		Backhoe	
		mm	ft·in
A: Maximum Digging Reach	9920	32'7"	
B: Maximum Digging Depth	6670	21'11"	
C: Maximum Cutting Height	10040	32'11"	
D: Maximum Dumping Height	7180	23'7"	
E: Transport Height	3010 (Standard) 3080 (High-grade)	9'11" 10'1"	
F: Overall Transport Length	9520	31'3"	
G: Minimum Swing Radius	3180	10'5"	

**NOTE:** The dimensions do not include height of the shoe lug (except Item E).

## GENERAL / Specifications

### ZAXIS225US-3, 225USLC-3 (Grouser Shoe)



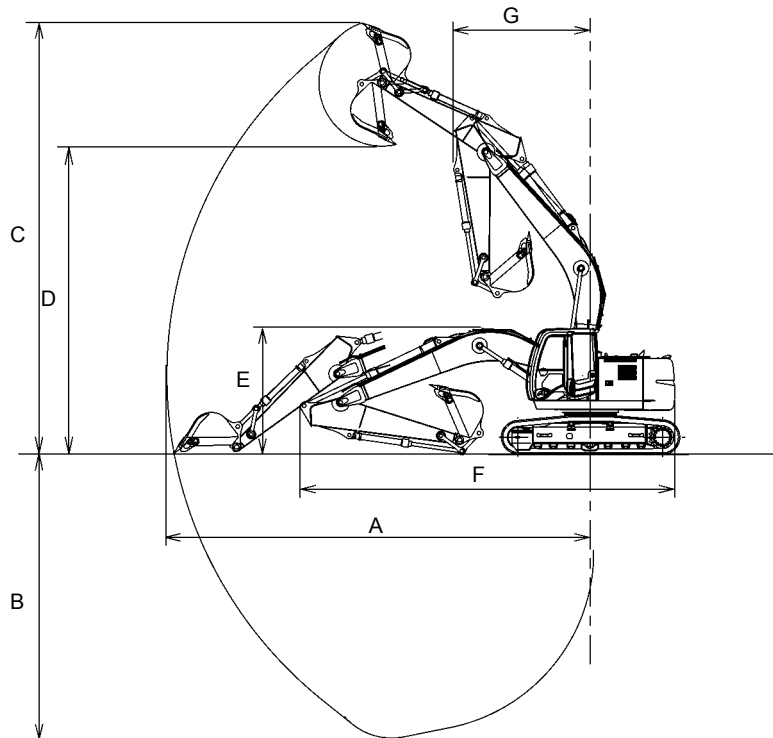
M1U4-12-002

Model		ZAXIS225US-3, 225USLC-3			
Item	Category	2.42 m (7 ft 11in) Arm		2.91 m (9 ft 7 in) Arm	
		Backhoe		Backhoe	
		mm	ft·in	mm	ft·in
A: Maximum Digging Reach		9520	31'3"	10010	32'10"
B: Maximum Digging Depth		6210	20'4"	6700	21'12"
C: Maximum Cutting Height		10560	34'8"	10980	36'0"
D: Maximum Dumping Height		7640	25'1"	8050	26'5"
E: Transport Height		3200	10'6"	2980	9'9"
F: Overall Transport Length		9040	29'8"	8920	29'3"
G: Minimum Swing Radius		2740	8'12"	2370	7'9"

**NOTE:** The dimensions do not include height of the shoe lug (except Item E).

## GENERAL / Specifications

**ZAXIS225USR-3, 225USRLC-3, 225USRK-3, 225USRLCK-3  
(Grouser Shoe)**



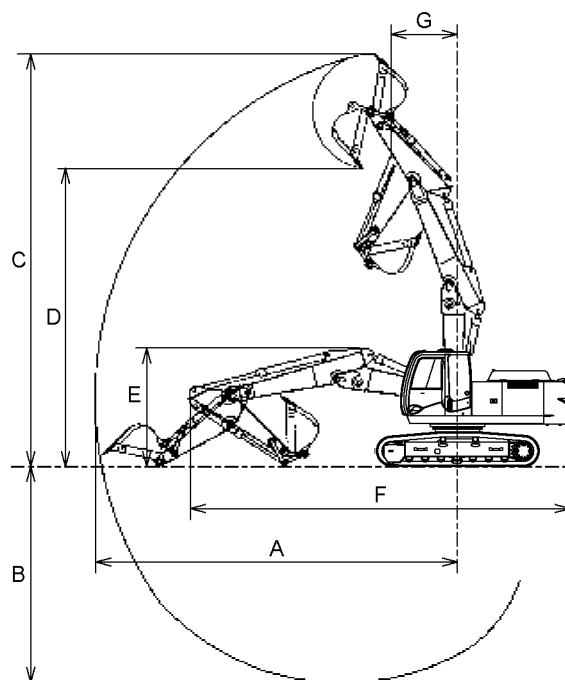
M1U4-12-004

Item	Model	ZAXIS225USR-3, 225USRLC-3				ZAXIS225USRK-3, 225USRLCK-3	
	Category	2.42 m (7 ft 11in) Arm		2.91 m (9 ft 7 in) Arm		2.91 m (9 ft 7 in) H Arm	
		Backhoe		Backhoe		Backhoe	
		mm	ft-in	mm	ft-in	mm	ft-in
A: Maximum Digging Reach	9430	30'11"	9920	32'7"	9920	32'7"	
B: Maximum Digging Depth	6180	20'3"	6670	21'11"	6670	21'11"	
C: Maximum Cutting Height	9670	31'9"	10040	32'11"	10040	32'11"	
D: Maximum Dumping Height	6830	22'5"	7180	23'7"	7180	23'7"	
E: Transport Height	3180	10'5"	3010	9'11"	2950	9'8"	
F: Overall Transport Length	8940	29'4"	9520	31'3"	8850	29'0"	
G: Minimum Swing Radius	3280	10'9"	3180	10'5"	3180	10'5"	

**NOTE:** The dimensions do not include height of the shoe lug (except Item E).

## GENERAL / Specifications

### ZAXIS240-3 (Machine with 2-Piece Boom)



T1V1-01-01-005

Model	ZAXIS240-3							
	2.19 m ( 7 ft 3 in) Arm		2.5 m (8 ft 2 in) Arm		2.96 m (9 ft 9 in) Arm		3.61 m (11 ft 10 in) Arm	
Category	mm	ft·in	mm	ft·in	mm	ft·in	mm	ft·in
A: Maximum Digging Reach	9770	32'1"	10010	32'10"	10430	34'3"	11070	36'4"
B: Maximum Digging Depth	5810	19'1"	6080	19'11"	6530	21'5"	7190	23'7"
C: Maximum Cutting Height	11300	37'1"	11470	37'8"	11840	38'10"	12420	40'9"
D: Maximum Dumping Height	8210	27'1"	8350	27'5"	8720	28'7"	9300	30'6"
E: Transport Height	3150	10'4"	3200	10'6"	3090	10'2"	3340	10'12"
F: Overall Transport Length	10230	33'7"	10250	33'8"	10220	33'6"	10190	33'5"
G: Minimum Swing Radius	2500	8'2"	2560	8'5"	2310	7'7"	2610	8'7"

NOTE: The dimensions do not include height of the shoe lug (except Item E).