

KOMATSU®

PC650LC-8

NET HORSEPOWER
320 kW **429 HP** @ 1800 rpm

OPERATING WEIGHT
63199–66401 kg
139,330–146,390 lb

BUCKET CAPACITY
1.57–3.81 m³ **2.05–4.98 yd³**

INTRODUCTORY



Photo may include optional equipment.

Performance

- Tier 3 certified engine
- Hydraulically driven, electronically controlled cooling fan
- Arm quick return valve - faster cycle times
- 13500 kg **29,762 lb** counterweight-exceptional over-side stability
- Economy mode for lower fuel consumption

Operator Comfort and Control

- 7-inch LCD color monitor panel
- Standard rearview monitoring system (1 camera)
- Standard heated, high back, air suspension seat
- Viscous cab damper mounts
- Lower noise levels

Technology

- KOMTRAX Level 3
- Equipment Management Monitoring System (EMMS)

Serviceability

- Reversible cooling fan
- Centralized service points
- Large handrails, steps, and catwalk

Quality and Reliability

- Komatsu designed and manufactured components
- High pressure in-line filtration-additional hydraulic system protection
- High rigidity work equipment
- Reliable electronic devices



ENGINE

Model Komatsu SAA6D140E-5*
 Type Water-cooled, 4-cycle, direct injection
 Aspiration Turbocharged, aftercooled, cooled EGR
 Number of cylinders 6
 Bore 140 mm **5.51"**
 Stroke 165 mm **6.50"**
 Piston displacement 15.24 ltr **930 in³**
 Governor All-speed, electronic
 Horsepower:
 SAE J1995 Gross 323 kW **433 HP**
 ISO 9249 / SAE J1349 Net 320 kW **429 HP**
 Hydraulic fan at maximum speed Net 288 kW **386 HP**
 Rated rpm 1800 rpm
 Fan drive type Hydraulic
 *EPA Tier 3 and EU stage 3A emission certified



HYDRAULIC SYSTEM

Type Open-center load-sensing system
 Number of selectable working modes 3
 Main pumps:
 Type Variable-capacity piston
 Pumps for Boom, arm, bucket, swing, and travel circuits
 Maximum flow:
 Main 2 x 410 ltr/min **2 x 108 U.S. gal/min**
 Sub-pump for control circuit Gear type
 Fan drive pump Variable-capacity piston type
 Hydraulic motors:
 Travel 2 x axial piston motors with parking brake
 Swing 2 x axial piston motors with swing holding brake
 Relief valve settings:
 Implement circuits 31.9 MPa 325 kgf/cm² **4,620 psi**
 Travel circuit 34.3 MPa 350 kgf/cm² **4,980 psi**
 Swing circuit 25.5 MPa 260 kgf/cm² **3,700 psi**
 Pilot circuit 2.9 MPa 30 kgf/cm² **430 psi**
 Hydraulic cylinders:
 Number of cylinders—bore x stroke
 Boom 2 – 185 mm x 1725 mm **7.3" x 67.9"**
 Arm 1 – 200 mm x 2045 mm **7.9" x 80.5"**
 Bucket 1 – 185 mm x 1425 mm **7.3" x 56.1"**



DRIVES AND BRAKES

Steering control Two levers with pedals
 Drive method Fully hydrostatic
 Travel motor Axial piston motor, in-shoe design
 Reduction system Planetary triple reduction
 Maximum drawbar pull 415 kN 42300 kg **93,250 lb**
 Gradeability 70%
 Maximum travel speed
 Low 3.0 km/h **1.9 mph**
 High 4.9 km/h **3.0 mph**
 Service brake Hydraulic lock
 Parking brake Oil disc brake



SWING SYSTEM

Driven method Hydraulic motors (2)
 Swing reduction Planetary gear
 Swing circle lubrication Grease-bathed
 Swing lock Oil disc brake
 Swing speed 8.3 rpm
 Swing torque 21369 kg·m **154,481 ft. lbs.**



UNDERCARRIAGE

Center frame H-leg
 Track frame Box-section
 Track type Sealed
 Track adjuster Hydraulic
 No. of shoes 52 each side
 No. of carrier rollers 3 each side
 No. of track rollers 9 each side



SERVICE REFILL CAPACITIES

Fuel tank 880 ltr **232.5 U.S. gal**
 Radiator 58 ltr **15.3 U.S. gal**
 Engine 40 ltr **10.6 U.S. gal**
 Final drive, each side 10 ltr **2.6 U.S. gal**
 Swing drive 2 x 13 ltr **2 x 3.4 U.S. gal**
 Hydraulic tank 360 ltr **95.0 U.S. gal**



OPERATING WEIGHT (APPROXIMATE) AND WORKING FORCES

Operating weight, including 7660 mm **25'2"** boom, 3500 mm **11'6"** arm, SAE heaped 2.7 m³ **3.53 yd³** backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes	Operating Weight	Ground Pressure
750 mm 29.5" Double grouser	64150 kg 141,427 lb	84.3 kPa 0.86 kgf/cm ² 12.3 psi
900 mm 35.5" Double grouser	65050 kg 143,411 lb	71.1 kPa 0.73 kgf/cm ² 10.3 psi

Arm	3500 mm 11'6"	4300 mm 14'1"	5200 mm 17'1"
Bucket digging force (SAE)	26900 kgf 59,300 lb		
Bucket digging force at power max. (SAE)	29100 kgf 64,150 lbf		
Arm crowd force (SAE)	22600 kgf 49,820 lb	19800 kgf 43,650 lb	17300 kgf 38,140 lb
Arm crowd force at power max. (SAE)	24300 kgf 53,570 lb	21300 kgf 46,960 lb	18600 kgf 41,010 lb
Bucket digging force (ISO)	30000 kgf 66,140 lb		
Bucket digging force at power max. (ISO)	32300 kgf 71,210 lb		
Arm crowd force (ISO)	23300 kgf 51,370 lb	20600 kgf 45,410 lb	17900 kgf 39,460 lb
Arm crowd force at power max. (ISO)	25100 kgf 55,340 lb	22200 kgf 48,940 lb	19300 kgf 42,550 lb

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D06(Electronic View Only)

06/10 (EV-1)

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