

KOMATSU®

FLYWHEEL HORSEPOWER
28.9 kW 38.8 HP @ 2500 rpm

OPERATING WEIGHT
4615 kg 10,174 lb

PC45R-8E DELUXE



PC
45R-8E



**DELUXE COMPACT
EXCAVATOR**

Photos may include optional equipment

PC45R-8E

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Exclusive HydraMind™ System

HydraMind is an advanced hydraulic control system that provides the operator with unbeatable “feel” and precision control. By automatically providing just the right combination of speed and power, even the most complex operations can be tackled with maximum speed and efficiency. It's one of the features that has helped make our full-size excavators so popular around the world. And that makes our compact machines work bigger than they look.

Easy Maintenance

To make it easy to keep them up and running when you need them, Komatsu compact excavators are equipped with a variety of easy maintenance features.

LCD Monitor

Displays oil pressure, battery condition and fuel level at a glance, as well as various alarm and diagnostic functions.

(Optional) Ergonomically Designed Cab

The ergonomically designed cab features armrests and adjustable suspension seating that promotes operator comfort and confidence.



Swing Boom

Gives the operator maximum versatility in application selection with a swing of 90°L/50°R. The PC45R-8 offers large and compact excavator features in one package.

Monoboom™

Single piece construction makes for stronger, longer lasting durability.

Easy to use PPC Joysticks

Another advanced feature is the Proportional Pressure Control (PPC) joysticks. Easy to use PPC controls help operators of all skill levels work precisely and efficiently all day long — with minimum effort.

Dozer Blade

The standard Dozer Blade operates smoothly and effortlessly. The high tractive effort of the PC45R-8 makes it ideal for the job-site leveling and backfill operations.

Steel or Rubber Tracks

Choose between quiet, smooth-rolling rubber tracks or durable, easy to replace steel tracks.

SPECIFICATIONS

PC45R-8E
DELUXE COMPACT EXCAVATOR

ENGINE-EPA CERTIFIED

Make Komatsu 4D84E-3FAE
 Type 4 cycle (diesel engine water cooled inline), direct injection type
 Number of cylinders 4
 Rated power:
 SAE J1349 28.9 kW **38.8 HP** @ 2500 rpm
 Maximum torque (80/1269/EC) 118 Nm **87 lb.ft.** @ 1800 rpm
 Displacement 1995 cm³ **122 in³**

HYDRAULIC SYSTEM

Type HydrauMind (CLSS)[™]
 Main pumps:
 Pump for Boom, arm, bucket, blade, boom swing and traveling
 Type Variable displacement, axial piston
 Maximum flow 105 ltr/min **27.7 gpm**
 Pump for Swing
 Type Fixed displacement gear pump
 Maximum flow 24.5 ltr/min **6.5 gpm**
 Auxiliary Hydraulic Flow 50.0 ltr/min **13.2 gpm**
 Valve rating:
 Swing 200 bar **2900 psi**
 Digging equipment 250 bar **3624 psi**
 Bucket breakout force (ISO 6015) 4230 kg **9325 lb**
 Digging arm breakout force
 1480 mm **4'10"** (ISO 6015) 2500 kg **5512 lb**

ELECTRIC SYSTEM

Operating voltage 12V
 Battery 1 x 80 Ah
 Alternator 40A
 Starter 1.2 kW

SWING SYSTEM

Driven by Hydraulic motor
 Swing reduction gear With double epicyclic reduction
 Swing circle lubrication Centralized greasing
 Swing speed 9 rpm
 Boom Angle (max.) 50° right/90° left

TRANSMISSION AND BRAKES

Controls Two levers with pedals
 Operation Hydrostatic
 Hydraulic motors Variable displacement, axial piston motors
 integrated in the profile of the tracks
 Reduction system Epicyclic reduction gears
 Maximum traction force 3840 kg **8466 lb**
 Maximum speed: High 4.6 km/h **2.8 mph**
 Low 2.8 km/h **1.7 mph**
 Parking brakes Oil-immersed disc
 with negative control

UNDERCARRIAGE

Central lower frame and carriage frame with boxed section. Hydraulic
 adjustment of the track tension.
 Adjustment of the track tension Grease
 Number of shoes (for each side) 38
 Number of carrier rollers (for each side) 1
 Number of track rollers (for each side) 5

BLADE

Width x height 1900 mm x 355 mm **6'2" x 1'2"**
 Maximum lifting above ground level 385 mm **1'4"**
 Maximum depth below ground level 440 mm **1'5"**

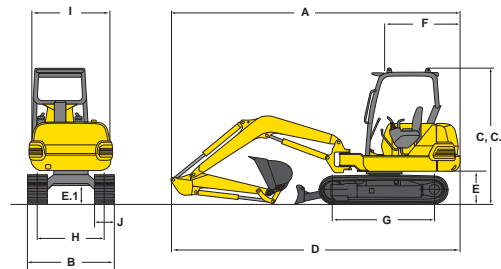
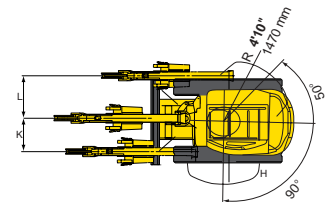
OPERATIONAL WEIGHT

Operational mass, including 1480 mm **4'10"** arm, bucket with 0.14 m³
0.19yd³ ISO 7451 capacity, blade, operator weight, liquids, full tank, and
 standard equipment (ISO 6016):

PC45R-8E Deluxe	Shoe Width	Operational Weight Monoboom
Standard	400 mm 15"	4615 kg 10,174 lb
With Optional Cab	400 mm 15"	4750 kg 10,471 lb

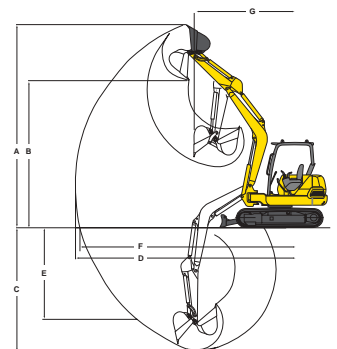
Dimensions (standard configuration)

A. Overall Length	18'0"	5485 mm
B. Overall Width	6'3"	1900 mm
C. Overall Height (to top of canopy)	8'3"	2510 mm
C.1. Overall Height (w/optional cab)	8'5"	2560 mm
D. Length on Ground (transport)	18'0"	5485 mm
E. Ground Clearance, counterweight	2'1"	640 mm
E.1. Ground Clearance, undercarriage	1'1"	340 mm
F. Tail Swing Radius	4'10"	1470 mm
G. Length of Track on Ground	6'4"	1940 mm
H. Track Gauge	4'11"	1500 mm
I. Upperstructure Width	5'1"	1545 mm
J. Shoe Width	16"	400 mm
K. Boom Offset Width, LH	1'11"	590 mm
L. Boom Offset Width, RH	2'4"	710 mm



Working Range (standard configuration)

Arm Length	4'10"	1480 mm	6'2"	1900 mm
A. Max. Digging Height	18'10"	5760 mm	19'6"	5955 mm
B. Max. Dumping Height	13'8"	4190 mm	14'5"	4395 mm
C. Max. Digging Depth	11'6"	3520 mm	12'9"	3895 mm
D. Max. Digging Reach	19'0"	5810 mm	20'2"	6160 mm
E. Max. Vertical Wall Digging Depth	8'6"	2600 mm	9'4"	2865 mm
F. Max. Digging Reach at Ground	18'7"	5670 mm	19'9"	6030 mm
G. Min. Swing Radius	6'8"	2050 mm	7'2"	2190 mm
Bucket Digging Force	9,325 lb.	4230 kg	9,325 lb.	4230 kg
Arm Crowd Force	5,511 lb.	2500 kg	4,643 lb.	2106 kg
Gradeability



Lifting Capacity



Capacity over front



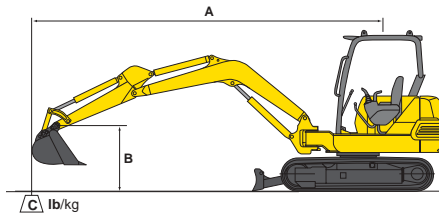
Lateral capacity or capacity over 360°

A \ B		Max. Reach Front	Max. Reach Side	3'/1.0 m Front	3'/1.0 m Side	7'/2.0 m Front	7'/2.0 m Side	10'/3.0 m Front	10'/3.0 m Side	13'/4.0 m Front	13'/4.0 m Side
Arm length 4'10"/1480 mm with blade on ground											
13'/4.0 m	lbs./kg	1800/800*	1800/800*	-	-	-	-	-	-	-	-
10'/3.0 m	lbs./kg	1800/800*	1300/600	-	-	-	-	1900/900*	1900/900*	1800/800*	1700/750
7'/2.0 m	lbs./kg	1900/850*	1100/500	-	-	-	-	2900/1300*	2600/1200	2100/950*	1600/750
3'/1.0 m	lbs./kg	1900/900*	1100/500	-	-	-	-	3800/1750*	2500/1150	2500/1150*	1600/700
0'/0.0 m	lbs./kg	2000/950*	1200/500	-	-	3200/1450*	3200/1450*	4200/1900*	2400/1100	2700/1200*	1500/700
-3'/1.0 m	lbs./kg	2200/1000*	1400/600	5100/2300*	5100/2300*	6400/2900*	4900/2200	3900/1750*	2400/1100	2500/1150*	1500/700
-7'/2.0 m	lbs./kg	2200/1000*	2000/900	-	-	4700/2100*	4700/2100*	2800/1250*	2400/1100	-	-

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Specifications are referring to the machine according to 89/392/EC directive configuration.



A—Outreach starting from the rotation center

B—Height at bucket pin

MONOBOOM™
WITH BLADE AT GROUND LEVEL

Bucket & Arm Combinations

Bucket Width	SAE Heaped Capacity	Weight	Arm Selection			
			Standard		Long	
12" 305 mm	2.4 cu. ft. 0.07 m ³	182 lbs. 83 kg.		○		○
18" 460 mm	3.8 cu. ft. 0.11 m ³	218 lbs. 99 kg.	4'10"	○	6'2"	○
24" 610 mm	4.9 cu. ft. 0.14 m ³	247 lbs. 112 kg.	(1480 mm)	○	(1900 mm)	○
36" 915 mm	8.8 cu. ft. 0.25 m ³	320 lbs. 145 kg.		○		X

This table is based on the lateral stability at the maximum outreach with full bucket.

○ with material density up to 3000 lbs/yd³
X not usable

Standard Equipment

- Additional service spool valve with piping
- Base machine
- Hammer/clamshell bucket hydraulic circuit
- Lifting cylinder guard
- Monoboom™
- Rubber shoes
- TOPS canopy
- 1480 mm **4'10"** arm
- 1900 mm **6'2"** dozer blade

Optional Equipment

- 1900 mm **6'2"** arm
- Bucket range (12", 18", 36")
- 400 mm **16"** steel shoes
- Soundproof cab
- liftable windscreen
- door with safety lock
- adjustable suspension and reclining seat

This specification sheet may contain attachments and optional equipment that are not available in your area. Please contact your local Komatsu Utility distributor for those items you may require. Materials and specifications are subject to change without notice.

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