

KOMATSU

PC700LC-11

EU Stage IV Engine

HYDRAULIC EXCAVATOR

PRELIMINARY



PC700

ENGINE POWER

327 kW / 439 HP @ 1.800 rpm

OPERATING WEIGHT

66.110 - 69.540 kg

BUCKET CAPACITY

max. 5,58 m³

ENGINE

Model	Komatsu SAA6D140E-7
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	1.800 rpm
ISO 14396	327 kW / 439 HP
ISO 9249 (net engine power)	325 kW / 436 HP
No. of cylinders	6
Bore × stroke	140 × 165 mm
Displacement	15,24 l
Fan drive type	Hydraulic, reversible

HYDRAULIC SYSTEM

Type	Open-center load-sensing system
Additional circuits	1 additional circuit can be installed (7,3 m / 7,6 m boom only)
Number of selectable working modes	3
Main pump	Variable capacity piston pump
Pumps for	Boom, arm, bucket, swing, and travel circuits
Maximum pump flow	2 × 410 l/min
Fan drive pump	Variable capacity piston pump
Hydraulic motors	
Travel	2 × axial piston motor with parking brake
Swing	2 × axial piston motor with swing holding brake
Relief valve settings	
Implement circuits	320 bar
Travel circuit	350 bar
Swing circuit	290 bar
Pilot circuit	30 bar

UNDERCARRIAGE

Construction	H-leg frame with box section track-frames
Track assembly	
Type	Fully sealed
Shoes (each side)	47
Tension	Hydraulic
Rollers	
Track rollers (each side)	8
Carrier rollers (each side)	3

OPERATING WEIGHT (APPR.)

Work equipment	6,6 m boom / 2,9 m arm / 3.425 kg bucket		7,3 m boom / 3,5 m arm / 3.100 kg bucket		7,6 m boom / 3,5 m arm / 2.430 kg bucket	
Double grouser shoes	Operating weight	Ground pressure	Operating weight	Ground pressure	Operating weight	Ground pressure
610 mm	67.500 kg	1,11 kg/m ²	66.975 kg	1,10 kg/m ²	66.110 kg	1,09 kg/m ²
700 mm	68.185 kg	0,96 kg/m ²	67.660 kg	0,96 kg/m ²	66.795 kg	0,94 kg/m ²
810 mm	68.865 kg	0,85 kg/m ²	68.340 kg	0,85 kg/m ²	67.475 kg	0,84 kg/m ²
910 mm	69.540 kg	0,77 kg/m ²	69.015 kg	0,76 kg/m ²	68.150 kg	0,75 kg/m ²

Operating weight, including boom, arm, bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

SWING SYSTEM

Type	Hydraulic motor
Swing reduction	Planetary gear
Swing circle lubrication	Grease-bathed
Swing lock	Oil disc brake
Swing speed	8,3 rpm

DRIVES AND BRAKES

Steering control	2 levers with pedals
Drive method	Fully hydrostatic
Travel motor	Axial piston motor, in-shoe design
Reduction system	Planetary double reduction
Max. drawbar pull	47.400 kg
Gradeability	70%
Max. travel speeds	
Lo / Hi	2,8 / 4,6 km/h
Service brake	Hydraulic lock
Parking brake	Oil disc brake

SERVICE REFILL CAPACITIES

Fuel tank	880 l
Radiator	58 l
Engine oil	40 l
Swing drive	2 × 13 l
Hydraulic tank	360 l
Final drive (each side)	10 l
AdBlue® tank	62,2 l

ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	106 dB(A) (2000/14/EC Stage 2)
LpA operator ear	73 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)*	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 1,06 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,15 m/s ²)

* For the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.