

PC400HD-6

KOMATSU

NET HORSEPOWER

306 HP 228 kW

OPERATING WEIGHT

96,675 - 98,680 lb

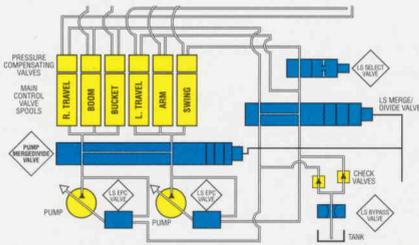
43850 - 44760 kg



PC400HD-6

HYDRAULIC EXCAVATOR
OVERLICE

HYDRAUMIND



Avance is the next generation of excavator development from Komatsu. This machine provides the most productive and economical excavator on the market today.

HydraMind is a closed center hydraulic system designed with Komatsu exclusive valves, which furnish the **Avance** operator with greater responsiveness.

- LS Bypass Valve - provides smoother operations by reducing hydraulic surges.
- Pump Merge Divide Valve - decreases cycle time and increases fuel efficiency.
- LS Select Valve - reduces travel shock and helps maintain greater swing speeds.
- LS EPC Valve - makes swing speed proportional to reduced engine speed.

Together these valves increase the total efficiency of the hydraulic system. With the **HydraMind** system the **Avance** operator experiences less fatigue and greater control, because the work equipment responds directly to the operator's touch.

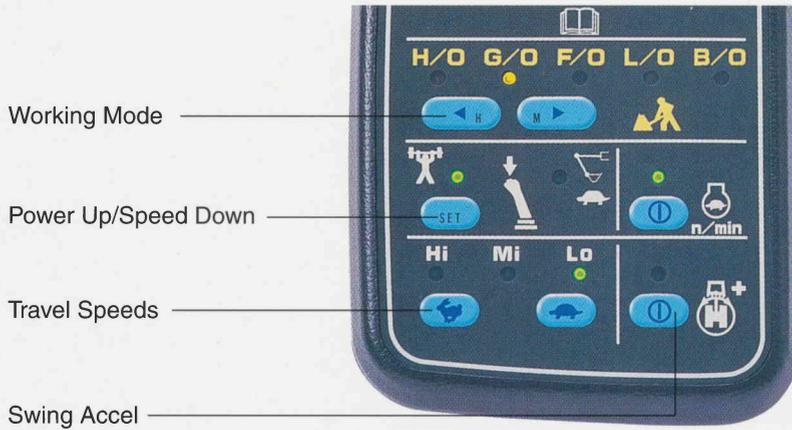
PC400HD-6 HYDRAULIC EXCAVATOR

Net Horsepower:
306 HP 228 kW @ 1,900 RPM

Operating Weight:
96,675 - 98,680 lb
43850 - 44760 kg

Bucket Capacity:
Std. 1.25 - 3.0 yd³
.96 - 2.29 m³

OPERATION



WORKING MODE SELECTION

The **Avance** excavator is equipped with five working modes. Each mode is designed to match engine speed, pump speed and system pressure with the current application.

Working Mode	Application	Advantage
H/O	Heavy-Duty	<ul style="list-style-type: none"> • Max. Production/Power • Fast Cycle Times • Power Up/Speed Down Available
G/O	General	<ul style="list-style-type: none"> • Good Cycle Times • Good Fuel Economy • Power Up/Speed Down Available
F/O	Finishing	<ul style="list-style-type: none"> • Smooth Finishing Capability • Arm in 1/2 Speed
L/O	Lifting	<ul style="list-style-type: none"> • Powerful Lifting • Power Maximum Pressure Continuously • Reduced Speed • Precision Control
B/O	Breaker Operations	<ul style="list-style-type: none"> • Optimum Engine RPM, Hydraulic Flow and Pressure

POWER UP/SPEED DOWN SWITCH*

A dual-function button on top of the left joystick provides an instant burst of power at either full or half speed dependent on the monitor selection.

Selection	Application	Result
Power Up	Tough Digging Operations	Increase speed for 8.5 seconds. Cut off function is cancelled.
Speed Down	Delicate Operations	Speed is reduced by 1/2. Cut off function is cancelled while joystick button is pressed.

* Available in H/O and G/O mode only.

TRAVEL SPEEDS

The **Avance** excavator is equipped with three travel speeds to provide smooth, efficient travel around the job site.

SWING ACCEL

The swing accel function is designed to control boom and swing speeds to provide optimum responses for different loading angles. As a result, operators can use the same easy motion for 180° loading as they do for 90° loading.

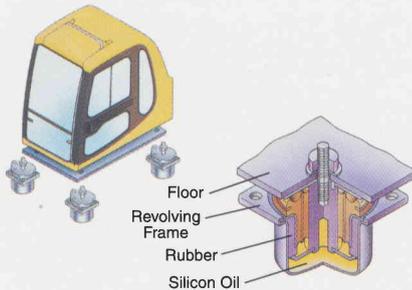
Selection	Result
ON	Oil flow to the swing motor is increased. 180° loading operations are most efficient.
OFF	Oil flow to the boom is increased. 90° loading operations are most efficient.

COMFORTABLE CAB



The **Avance** cab interior is 14% more spacious and provides a comfortable working environment.

- Side Visibility has been improved by adding glass to the lower half of the door.
- Upward Visibility has been increased by installing a larger, forward-mounted ceiling hatch that eliminates the upper crossbar.



- Forward Visibility has been improved with additional window area and by attaching the windshield wiper to the cab, improving the operator's line-of-sight. The remote wiper also enables the windshield to be raised and lowered easily.
- Ventilation has been improved by providing additional vents throughout the cab and with the larger fresh-air intake system.
- Two Storage Compartments are installed behind the operator's seat for personal items and hot/cold items.
- The semi-bucket seat utilizes a urethane foam which will hold its shape. In addition, it features a dual tilt mechanism allowing the operator to adjust the seat to their posture and size.

CONTROLS

The multiple position, pressure proportional control levers allow the operator to work comfortably while maintaining complete accuracy. A double slide mechanism permits the seat and controllers to move simultaneously or independently. This allows the operator to position the controllers for maximum comfort. The multi-position monitor is easily accessible and can be rotated to remove any glare. In addition, the angled dashboard makes the switches and fuel control dials easier to view and use.

CAB MOUNTS

The cab rests on viscous damping mounts to reduce vibration and noise from the machine body. Operator fatigue is reduced to a minimum.

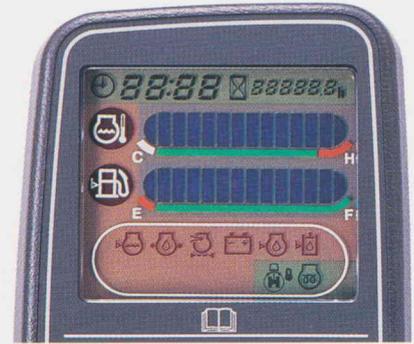
UNRIVALED CONTROL

TWO-MODE SETTING FOR BOOM

By pushing a button, it is possible to select either a smooth arm operation or powerful boom thrust. Based on your selection, the system chooses the boom head safety valve pressure from two settings.



SERVICE



SELF-DIAGNOSTIC MONITOR

The improved **Avance** monitor is equipped with an onboard self-diagnostic system. This diagnostic system can display information for the following:

- Current operating conditions - engine speed, hydraulic main pump pressures, and electronic signals
- Historical abnormalities - records up to 20 deviations within the past 1,000 hours of operation.

If an abnormality occurs the system will display a warning or sound an alarm.

ACCESSIBLE SERVICE LOCATIONS

Fluid checks are easier and can be performed from ground level. Also, oil changes have been simplified with the new drain valve and improved filter locations. The bolt-type adjustment for the alternator simplifies fan belt tension adjustment.

OUTSTANDING DURABILITY



The variable gauge undercarriage gives increased stability. In addition, the track link pitch has been enlarged to the next size class, and a strut has been added for increased durability.

SPECIFICATIONS

PC400HD-6 HYDRAULIC EXCAVATOR



ENGINE

Model Cummins M11
 Type 4 cycle water-cooled, direct-injection
 Aspiration Turbocharged and aftercooled
 No. of cylinders 6
 Bore **4.92"** 125 mm
 Stroke **5.79"** 147 mm
 Piston displacement **661 in³** 10.8 ltr.
 Rated Gross Horsepower:
320 HP 238.6 kW @ 2,000 RPM (SAE#J1349)
 Net Flywheel horsepower:
306 HP 228 kW @ 1,900 RPM (SAE#J1349)
 Governor All-speed, mechanical
 Meets 1996 EPA emission standards.



HYDRAULIC SYSTEM

Type HydraMind system, a closed-center system with load sensing valves and pressure compensated valves.
 No. of selectable working modes 5
Main pump:
 Type Variable-displacement piston pumps
 Pumps for Boom, arm bucket, swing and travel circuits
 Maximum flow **2 x 81 U.S. gal/min.** 308 ltr.
 Sub-pump for control circuit Gear pump
Hydraulic motors:
 Travel 2 x Axial piston motor with parking brake
 Swing 1 x Axial piston motor
Relief valve setting:
 Implement circuits **5,050 PSI** 355 kg/cm²
 Travel circuit **5,050 PSI** 355 kg/cm²
 Swing circuit **4,050 PSI** 285 kg/cm²
 Pilot circuit **430 PSI** 30 kg/cm²
 Service valve **2,990 PSI** 210 kg/cm²
Hydraulic cylinders:
 Number of cylinders – bore x stroke
 Boom 2 – **6.3" x 61.8"** 160 mm x 1570 mm
 Arm 1 – **7.3" x 71.7"** 185 mm x 1820 mm
 Bucket 1 – **6.3" x 50.0"** 160 mm x 1270 mm
Service valves maximum flow:
 First valve **126.8 U.S. gal/min.** 480 ltr.
 Second valve **63.4 U.S. gal/min.** 240 ltr.
 Third valve **63.4 U.S. gal/min.** 240 ltr.



DRIVES & BRAKES

Steering control Two levers with pedals
 Drive method Fully hydrostatic type
 Travel motor Axial piston motor, in-shoe
 Max. drawbar pull **74,300 lb** 33700 kg
 Max. travel speed (High) **3.4 MPH** 5.5 km/h
 Max. travel speed (Mid) **2.8 MPH** 4.5 km/h
 Max. travel speed (Low) **2.0 MPH** 3.2 km/h
 Service brake Hydraulic lock
 Parking brake Oil disc brake



SWING SYSTEM

Driven by Hydraulic motor
 Swing reduction Double planetary reduction
 Swing circle lubrication Grease-bathed
 Swing lock Oil disc
 Swing speed 9.3 RPM



UNDERCARRIAGE

Center frame X-frame
 Track frame Box-section type
 Seal of track Sealed track
 Track adjuster Hydraulic
 No. of shoes 49 per side
 No. of carrier rollers 2 per side
 No. of track rollers 10 per side



COOLANT & LUBRICANT CAPACITY (refilling)

Fuel tank **159.8 U.S. gal** 605 ltr.
 Radiator **12.4 U.S. gal** 47.0 ltr.
 Engine **8.5 U.S. gal** 32.0 ltr.
 Final drive, each side **3.0 U.S. gal** 11.5 ltr.
 Swing drive **5.7 U.S. gal** 21.5 ltr.
 Hydraulic tank **71.3 U.S. gal** 270 ltr.



OPERATING WEIGHT

Operating weight, including **23' 2"** 7060 mm one-piece boom, **11' 1"** 3380 mm arm, SAE heaped **2.38 yd³** 1.82 m³ back-hoe bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

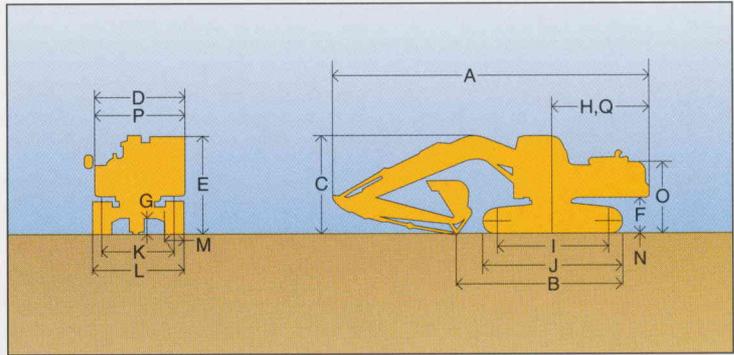
Shoes	PC400HD-6	
	Operating weight	Ground pressure
23.6" Triple 600 mm	96,675 lb 43850 kg	11.17 PSI 0.79 kg/cm ²
27.6" Standard 700 mm	97,665 lb 44300 kg	9.67 PSI 0.68 kg/cm ²
31.5" Triple 800 mm	98,680 lb 44760 kg	8.53 PSI 0.60 kg/cm ²

Arm Length	Weight adjustments:	
7' 10" 2400 mm	(368) lb	(167) kg
9' 6" 2900 mm	(108) lb	(49) kg
13' 1" 4000 mm	+529 lb	240 kg
15' 9" 4800 mm	+820 lb	372 kg

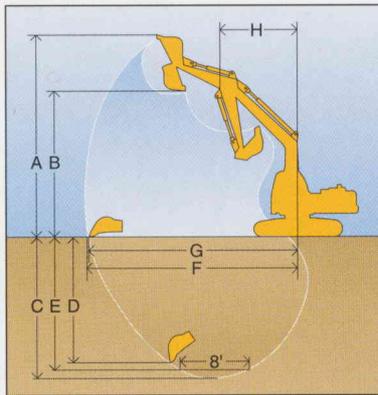


DIMENSIONS with standard arms

	7' 10"	2400 mm	9' 6"	2900 mm	11' 1"	3380 mm	13' 1"	4000 mm	15' 9"	4800 mm
A Overall length	39' 1"	11890 mm	39' 0"	11890 mm	38' 10"	11820 mm	38' 11"	11850 mm	38' 4"	11740 mm
B Overall length (transport)	27' 8"	8435 mm	24' 4"	7425 mm	21' 11"	6685 mm	20' 5"	6220 mm	19' 9"	6025 mm
C Overall height (to top of boom)	12' 2"	3710 mm	12' 3"	3790 mm	11' 11"	3675 mm	12' 5"	3880 mm	14' 5"	4320 mm
D Overall width	11' 3"	3440 mm								
E Overall height (to top of cab)	11' 2"	3400 mm								
F Ground clearance, counterweight	4' 5"	1455 mm								
G Ground clearance (minimum)	2' 4"	706 mm								
H Tail swing radius	11' 6"	3500 mm								
I Track length on ground	14' 3"	4342 mm								
J Track length	17' 7"	5355 mm								
K Track gauge	9' 5"	2870 mm								
L Width of crawler (retracted)	10' 1"	3070 mm								
L' Width of crawler (extended)	11' 9"	3570 mm								
M Shoe width	27.6"	700 mm								
N Grouser height	1.5"	37 mm								
O Machine cab height	9' 4"	2850 mm								
P Upper structure width	9' 10"	2995 mm								
Q Distance, swing center to rear end	11' 6"	3500 mm								



WORKING RANGE & BUCKET/ARM COMBINATION



	7' 10"	2400	9' 6"	2900	11' 1"	3380	13' 1"	4000	15' 9"	4800
A Max. digging height	34' 2"	10410	34' 2"	10410	36' 4"	11050	36' 7"	11160	38' 1"	11620
B Max. dumping height	23' 6"	7170	23' 8"	7210	25' 4"	7700	25' 9"	7840	27' 2"	8270
C Max. digging depth	22' 0"	6710	23' 8"	7210	25' 0"	7630	27' 3"	8310	30' 0"	9120
D Max. vertical wall digging depth	17' 4"	5260	18' 3"	5560	22' 0"	6720	23' 6"	7150	26' 6"	8090
E Max digging depth of cut for 8' level	21' 7"	6585	23' 4"	7095	24' 7"	7490	27' 1"	8255	29' 9"	9080
F Max. digging reach	36' 3"	11060	37' 6"	11450	39' 5"	12020	41' 2"	12560	43' 10"	13370
G Max. digging reach at ground level	35' 6"	10810	36' 10"	11200	38' 9"	11780	40' 6"	12340	43' 2"	13160
H Min. swing radius	15' 11"	4850	15' 2"	4620	15' 8"	4770	15' 5"	4700	15' 4"	4670
Bucket digging force	50,260 lb	22800 kg	50,040 lb	22900 kg	50,490 lb	22900 kg	50,040 lb	22700 kg	49,820 lb	22600 kg
Arm Crowd force	57,760 lb	26200 kg	51,150 lb	23200 kg	43,210 lb	19600 kg	38,800 lb	17600 kg	33,950 lb	15400 kg



BACKHOE BUCKET AND ARM COMBINATION

BUCKET	CAPACITY		WIDTH		WEIGHT		# OF TEETH	ARM				
								7' 10"	9' 6"	11' 1"	13' 1"	15' 9"
							2400mm	2900mm	3380mm	4000mm	4800mm	
STANDARD PLATE	1.63 yd ³	1.25 m ³	36"	914 mm	2,723 lb	1235 kg	4	○	○	○	○	○
	2.00 yd ³	1.50 m ³	42"	1067 mm	3,015 lb	1368 kg	5	○	○	○	○	○
	2.38 yd ³	1.82 m ³	48"	1219 mm	3,210 lb	1456 kg	5	○	○	○	○	□
	2.75 yd ³	2.10 m ³	54"	1372 mm	3,540 lb	1606 kg	6	○	○	○	△	X
	3.00 yd ³	2.29 m ³	60"	1524 mm	3,729 lb	1691 kg	6	○	□	□	X	X
HEAVY DUTY PLATE	1.63 yd ³	1.25 m ³	36"	914 mm	3,302 lb	1498 kg	4	○	○	○	○	○
	2.00 yd ³	1.50 m ³	42"	1067 mm	3,683 lb	1671 kg	5	○	○	○	○	□
	2.38 yd ³	1.82 m ³	48"	1219 mm	3,894 lb	1766 kg	5	○	○	○	○	□
	2.75 yd ³	2.10 m ³	54"	1372 mm	4,260 lb	1932 kg	6	○	○	□	△	X
	3.00 yd ³	2.29 m ³	60"	1524 mm	4,516 lb	2048 kg	6	○	□	□	X	X
HEAVY DUTY CAST	1.25 yd ³	0.96 m ³	30"	762 mm	2,592 lb	1175 kg	4	○	○	○	○	○
	1.50 yd ³	1.15 m ³	33"	838 mm	2,794 lb	1267 kg	4	○	○	○	○	○
	1.75 yd ³	1.33 m ³	39"	991 mm	2,972 lb	1348 kg	4	○	○	○	○	○
	2.12 yd ³	1.62 m ³	45"	1143 mm	3,332 lb	1511 kg	5	○	○	○	○	□

○ -Used with weights up to 3,040 lb/yd³ □ -Used with weights up to 2,520 lb/yd³ △ -Used with weights up to 2,020 lb/yd³ X -Not useable

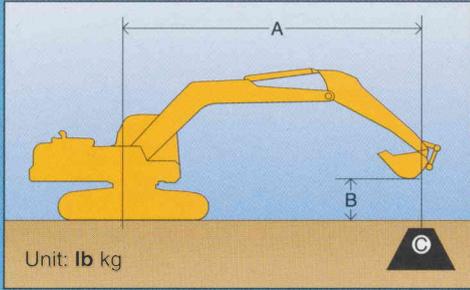


GUIDELINES FOR MATCHING ESCO BUCKETS WITH APPLICATIONS

STANDARD DUTY PLATE BUCKET	HEAVY DUTY PLATE BUCKET	HEAVY DUTY CAST BUCKET	DITCH CLEANING BUCKET
<ul style="list-style-type: none"> •General purpose. •Truck loading. •Mass excavation. •General excavation in loam solid, sandy soils or soils containing very little rock. 	<ul style="list-style-type: none"> •General excavation in compact soils or dense clay. •Excavation in gravel or loosely embedded to moderate rock conditions. 	<ul style="list-style-type: none"> •Shot rock conditions. •Touch and abrasive excavating. 	<ul style="list-style-type: none"> •General purpose ditch cleanout. •Very light excavating in loam or sandy soils.



LIFTING CAPACITY



- Equipment:
- Boom: 23' 2" 7060 mm
 - Bucket: 2.38 yd³ 1.8 m³
 - Shoes: 27.6" 700 mm
 - Lifting Mode

- A: Reach from swing center
 B: Bucket hook height
 C: Lifting capacity
 Cf: Rating over front
 Cs: Rating over side
 ☉: Rating at maximum reach

Arm: 7' 10" 2400 mm														Unit: lb kg	
B	A	5' 1.5 m		10' 3.0 m		15' 4.6 m		20' 6.1 m		25' 7.6 m		30' 9.1 m		☉MAX.	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
25'	7.6 m									*21,600	20,100			*21,400	18,600
										*9800	9100			*9700	8450
20'	6.1 m							*26,000	*26,000	*22,500	19,700			*20,900	15,200
								*11750	*11750	*10200	8950			*9600	6900
15'	4.6 m					*40,100	*40,100	*29,400	27,200	*24,100	19,000	*21,000	13,900	*20,800	13,400
						*18200	*18200	*10950	12300	*10950	8600	*9550	6300	*9450	6100
10'	3.0 m							*32,800	25,100	*25,900	18,100	21,700	13,500	20,200	12,500
								*14800	11400	*11750	8250	9850	6100	9150	5700
5'	1.5 m							*35,000	24,200	*27,200	17,400	21,300	13,100	19,900	12,300
								*15900	10950	*12350	7900	9650	5950	9050	5550
0'	0.0 m					*45,500	36,600	*36,300	23,600	27,500	17,000	21,000	12,900	20,600	12,600
						*20650	16600	*16000	10700	12450	7700	9550	5850	9350	5750
-5'	-1.5 m			*36,100	*36,100	*43,000	36,900	*33,500	23,400	*25,200	16,800			*21,700	13,800
				*16350	*16350	*19500	16700	*15200	10650	*11900	7650			*9850	6250
-10'	-3.0 m			*44,200	*44,200	*37,300	*37,300	*29,600	23,800	*22,700	17,100			*21,600	16,400
				*20050	*20050	*15950	*16950	*13450	10780	*10300	7750			*9750	7400
-15'	-4.6 m					*28,200	*28,200	*22,100	*22,100					*19,900	*19,900
						*12800	*12800	*10000	10000					*9000	9000

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. *Load is limited by hydraulic capacity rather than tipping.

Arm: 9' 6" 2900 mm														Unit: lb kg	
B	A	5' 1.5 m		10' 3.0 m		15' 4.6 m		20' 6.1 m		25' 7.6 m		30' 9.1 m		☉MAX.	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
25'	7.6 m									*20,100	*20,100			*19,600	*16,900
										*9100	*9100			*8900	*7650
20'	6.1 m									*21,200	19,900	*19,400	14,200	*19,300	*14,000
										*9600	9050	*8800	6450	*8750	*6350
15'	4.6 m					*37,100	*37,100	*27,900	27,600	*23,000	19,200	*20,100	13,900	19,400	*12,500
						*16850	*16850	*12650	12500	*10450	8700	*9150	6300	*8800	*5650
10'	3.0 m					*44,800	39,800	*31,600	25,800	*25,000	18,300	*21,100	13,500	18,900	11,600
						20300	18050	*14350	11700	*11350	8300	*9550	6100	8550	5250
5'	1.5 m					*44,100	37,300	*34,300	24,400	*26,600	17,400	21,200	13,100	18,600	11,400
						*20000	16950	*15550	11050	*12050	7900	9850	5900	8450	5150
0'	0.0 m					*47,900	36,600	*35,200	23,500	*27,300	16,900	20,900	12,700	19,100	11,600
						*21700	16600	*15950	10700	*12350	7650	9500	5800	8700	5900
-5'	-1.5 m			*35,300	*35,300	*45,000	36,600	*34,200	23,300	*25,500	18,600	20,800	12,700	20,700	12,600
				*16000	*16000	*20400	16600	*15500	10550	*12050	7550	9450	5750	9400	5700
-10'	-3.0 m			*51,000	*51,000	*40,000	37,100	*31,100	23,400	*24,000	16,600			20,900	14,700
				*23100	*23100	*18150	16850	*14100	10880	*10900	7600			9450	5650
-15'	-4.6 m			*39,500	*39,500	*32,000	*32,000	*24,500	23,600					20,200	19,200
				*17900	*17900	*14500	*14500	*11100	10700					9150	8700

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. *Load is limited by hydraulic capacity rather than tipping.

Arm: 11' 1" 3380 mm													Unit: lb kg				
B	A	5' 1.5 m		10' 3.0 m		15' 4.6 m		20' 6.1 m		25' 7.6 m		30' 9.1 m		MAX.			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
25'	7.6 m													*12,800	*12,800	*12,700	*12,700
														*5800	*5800	*5750	*5750
20'	6.1 m									*20,000	*20,000	*18,400	14,500	*12,700	*12,700	12,400	5600
										*9100	*9100	*8950	6560	*5750	*5750	5600	5600
15'	4.6 m							*26,400	*26,400	*22,000	19,400	*19,400	14,100	*13,000	11,100	11,100	5050
								*11950	*11950	*10000	8800	*8800	6400	*5900	5900	5050	5050
10'	3.0 m					*42,500	41,000	*30,400	26,300	*24,200	18,500	*20,500	13,500	*13,800	10,400	10,400	4750
						*19300	18600	*13800	11900	*11000	8400	*9300	6150	*5250	4750	4750	4750
5'	1.5 m					*47,500	30,100	*33,800	24,700	*26,100	17,600	21,300	13,100	*15,100	10,200	10,200	4680
						*21550	17250	*15250	11200	*11850	8000	9550	5950	*6050	4680	4680	4680
0'	0.0 m					*46,900	36,800	*35,100	23,700	*27,100	17,000	20,900	12,700	*17,000	10,400	10,400	4750
						*21300	16700	*15900	10750	*12300	7700	9500	5800	*7750	4750	4750	4750
-5'	-1.5 m	*22,800	*22,800	*30,600	*30,600	*46,500	36,600	*34,700	23,300	*25,900	15,500	20,700	12,600	18,600	11,200	11,200	5100
		*10350	*10350	*13850	*13850	*21100	16600	*15750	10550	*12200	7550	9400	5700	8400	5100	5100	5100
-10'	-3.0 m	*34,500	*34,500	*44,700	*44,700	*42,300	36,900	*32,900	23,300	*25,000	16,600			*10,100	12,800	12,800	5500
		*15650	*15650	*20300	*20300	*19200	16700	*14650	10550	*11350	7550			*8850	5500	5500	5500
-15'	-4.6 m			*45,800	*45,800	*35,300	35,300	*27,300	23,800	*20,300	17,000			*18,600	16,000	16,000	7250
				*20800	*20800	*10000	10000	*12360	10800	*9200	7700			*8400	7250	7250	7250
-20'	-6.1 m					*23,700	*23,700	*17,200	*17,200					*16,200	*16,200	7350	7350
						*10750	*10750	*7800	*7800					*7350	*7350	7350	7350

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. *Load is limited by hydraulic capacity rather than tipping.

Arm: 13' 1" 4000 mm													Unit: lb kg				
B	A	5' 1.5 m		10' 3.0 m		15' 4.6 m		20' 6.1 m		25' 7.6 m		30' 9.1 m		MAX.			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
25'	7.6 m													*16,400	15,000	*10,000	*10,000
														*7450	8800	*4900	*4900
20'	6.1 m													*17,100	14,800	*10,800	*10,800
														*7750	6700	*4900	*4900
15'	4.6 m									*20,500	19,800	*18,200	14,300	*11,100	10,100	10,100	4600
										*9300	8950	*8250	6500	*5050	4600	4600	4600
10'	3.0 m					*39,000	*39,000	*28,400	26,800	*22,900	18,700	*19,500	13,700	*11,700	9,500	9,500	4300
						*17700	*17700	*12900	12150	*10400	8600	*8850	6250	*5350	4300	4300	4300
5'	1.5 m					*45,400	38,800	*32,100	25,000	*25,100	17,700	*20,800	13,200	*12,800	9,300	9,300	4200
						*20600	17500	*14550	11350	*11330	8050	*9400	5950	*5800	4200	4200	4200
0'	0.0 m			*20,300	*20,300	*48,000	38,800	*34,300	23,700	*28,500	16,900	20,900	12,700	*14,300	9,500	9,500	4300
				*9200	*9200	*21750	16700	*15550	10760	*12000	7650	9450	5750	*6500	4300	4300	4300
-5'	-1.5 m	*20,700	*20,700	*29,400	*29,400	*47,400	36,200	*34,700	23,100	*26,900	16,400	20,500	12,400	16,700	10,100	10,100	4550
		*9400	*9400	*13350	*13350	*21500	16400	*15750	10450	*12200	7460	9300	5600	7550	4550	4550	4550
-10'	-3.0 m	*30,400	*30,400	*40,600	*40,600	*44,300	36,200	*33,200	22,900	*25,700	16,300	*20,100	12,400	*18,000	11,300	11,300	5100
		*13800	*13800	*18400	*18400	*20100	16400	*15050	10400	*11650	7400	*9100	5600	*8200	5100	5100	5100
-15'	-4.6 m	*41,500	*41,500	*52,500	*52,500	*38,500	36,600	*29,400	23,200	*22,500	16,500			*18,000	13,700	13,700	6200
		*18800	*18800	*23800	*23800	*17500	16700	*10000	10500	*10200	7500			*8150	6200	6200	6200
-20'	-6.1 m			*37,900	*37,900	*29,100	*29,100	*22,000	*22,000					*15,900	*15,900	7650	7650
				*17200	*17200	*13150	*13150	*9950	*9950					*7650	*7650	7650	7650

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. *Load is limited by hydraulic capacity rather than tipping.

Arm: 15' 9" 4800 mm													Unit: lb kg				
B	A	5' 1.5 m		10' 3.0 m		15' 4.6 m		20' 6.1 m		25' 7.6 m		30' 9.1 m		MAX.			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
25'	7.6 m													*8,500	*8,500	3850	3850
														*3850	*3850	3850	3850
20'	6.1 m													*15,600	15,300	*9,400	*9,400
														*7060	6950	*3800	*3800
15'	4.6 m													*16,800	14,800	*8,600	*8,600
														*7660	6700	*3900	*3900
10'	3.0 m							*25,800	*25,800	*21,200	19,300	*18,400	14,100	*9,000	8,400	8,400	3800
								*11700	*11700	*9650	8750	*8350	5400	*4100	3800	3800	3800
5'	1.5 m					*42,200	40,300	*30,100	25,800	*23,800	18,100	*19,900	13,400	*9,700	8,200	8,200	3700
						*19150	18300	*13650	11700	*10750	8250	*9000	5100	*4400	3700	3700	3700
0'	0.0 m			*21,400	*21,400	*46,700	37,600	*33,200	24,200	*25,700	17,200	21,000	12,800	*10,700	8,300	8,300	3750
				*9700	*9700	*21200	17060	*15050	10950	*11650	7800	9550	5800	*4850	3750	3750	3750
-5'	-1.5 m	*17,600	*17,600	*27,200	*27,200	*47,900	36,300	*34,600	23,200	*26,700	15,500	20,600	12,400	*12,300	8,800	8,800	3950
		*8000	*8000	*12350	*12350	*21750	16460	*16650	10500	*12100	7500	9350	5650	*5550	3950	3950	3950
-10'	-3.0 m	*25,500	*25,500	*35,800	*35,800	*48,900	35,900	*34,100	22,800	*26,400	16,200	20,400	12,200	*14,700	9700	9700	4350
		*11550	*11550	*16150	*16150	*21000	16300	*15450	10350	*11950	7350	8250	5550	*5550	4350	4350	4350
-15'	-4.6 m	*34,500	*34,500	*46,500	*46,500	*42,200	36,200	*31,600	22,800	*24,400	16,200	*18,700	12,300	*16,600	11,300	11,300	5150
		*15050	*15050	*21100	*21100	*19100	15400	*14360	10350	*11050	7350	*8500	5600	*7550	5150	5150	5150
-20'	-6.1 m	*45,300	*45,300	*48,000	*48,000	*34,800	34,800	*26,400	23,300	*19,700	16,700			*16,300	14,500	14,500	6600
		*20550	*20550	*21750	*21750	*15800	15800	*11950	10600	*8900	7550			*7350	6600	6600	6600
-25'	-7.6 m					*22,500	*22,500	*15,900	*15,900					*14,200	*14,200	6450	6450
						*10200	*10200	*7250	*7250					*6450	*6450	6450	6450

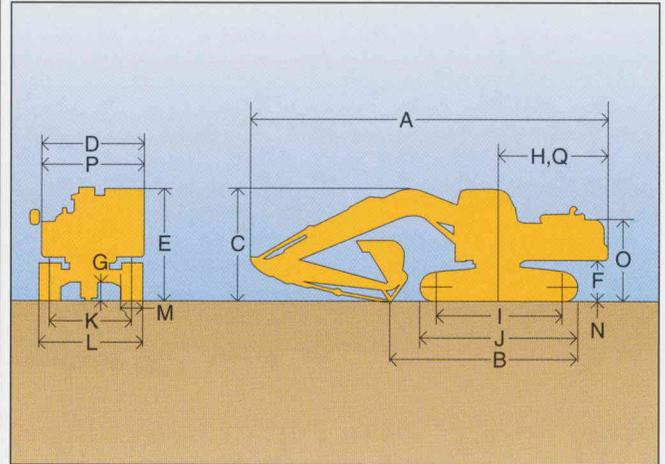
Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. *Load is limited by hydraulic capacity rather than tipping.

PC400HD-6 with HD Boom, arm and bucket

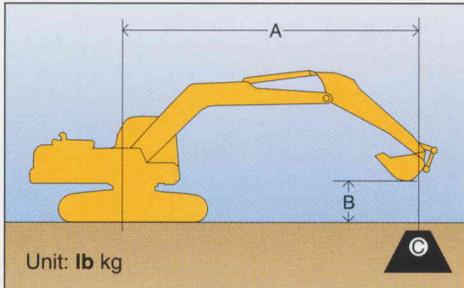


DIMENSIONS

		10' 8"	3240 mm arm
A	Overall length	39' 1"	11920 mm
B	Length on ground (transport)	21' 11"	6685 mm
C	Overall height (to top of boom)	12' 1"	3690 mm
D	Overall width	11' 3"	3440 mm
E	Overall height (to top of cab)	11' 2"	3400 mm
F	Ground clearance, counterweight	4' 5"	1455 mm
G	Ground clearance (minimum)	2' 4"	706 mm
H	Tail swing radius	11' 6"	3500 mm
I	Track length on ground	14' 3"	4350 mm
J	Track length	17' 7"	5355 mm
K	Track gauge	9' 5"	2870 mm
L	Width of crawler (retracted)	10' 1"	3070 mm
L'	Width of crawler (extended)	11' 9"	3570 mm
M	Shoe width	27.6"	700 mm
N	Grouser height	1.5"	37 mm
O	Machine cab height	9' 4"	2850 mm
P	Upper structure width	9' 10"	2995 mm
Q	Distance, swing center to rear end	11' 6"	3500 mm



LIFTING CAPACITY



- Equipment:
- Boom: **21' 11"** 7060 mm
 - Arm: **11' 1"** 3380 mm
 - Bucket: **3.4 yd³** 2.6 m³
 - Shoes: **27.6"** 700 mm
 - Lifting Mode

- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗: Rating at maximum reach

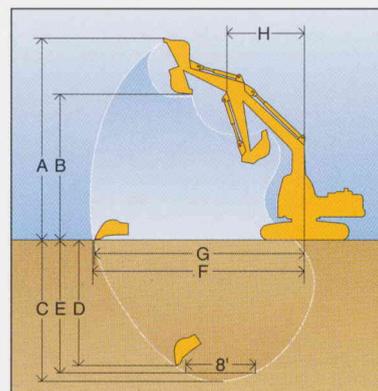
		Unit: lb kg															
B	A	5' 1.5 m		10' 3.0 m		15' 4.6 m		20' 6.1 m		25' 7.6 m		30' 9.1 m		⊗ MAX.			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
25'	7.6 m													*11,400	*11,400	*11,100	*11,100
														*5150	*5150	*5050	*5050
20'	6.1 m									*19,000	19,000	*17,400	13,700	*11,100	*11,100	*11,100	*11,100
										*8650	8650	*7680	6200	*5050	*5050	*5050	*5050
15'	4.6 m							*25,300	*25,300	*21,000	18,600	*18,300	13,300	*11,500	*10,200	*10,200	4660
								*11500	*11500	*9500	8450	*8300	6000	*6200	*6200	4660	4660
10'	3.0 m					*41,200	40,000	*28,200	25,400	*23,100	17,500	19,400	12,700	*12,200	*9,500	*9,500	4300
						*18700	18100	*13250	11500	*10500	8000	8800	5800	*5550	*5550	4300	4300
5'	1.5 m					*46,000	36,800	*32,300	23,700	*24,000	16,700	20,400	12,200	*13,500	*9,300	*9,300	4200
						*20850	18700	*14850	10750	*11300	7550	9250	5550	*8100	*8100	4200	4200
0'	0.0 m					*46,800	35,400	*33,700	22,600	25,900	16,000	20,000	11,800	*15,300	*9,500	*9,500	4300
						*21250	16050	*15300	10250	11750	7250	9100	5350	*6950	*6950	4300	4300
-5'	-1.5 m	*24,300	*24,300	*32,700	*32,700	*44,900	35,100	*33,300	22,100	25,700	15,600	19,800	11,500	17,500	10,300	10,300	4650
		*11000	*11000	*14800	*14800	*20350	15950	*15100	10050	11650	7060	9000	5250	8000	4650	4650	4650
-10'	-3.0 m	*38,900	*38,900	*48,100	*48,100	*40,700	35,500	*30,900	22,200	*23,000	16,000			*17,900	*11,000	*11,000	5350
		*16750	*16750	*21800	*21800	*18,450	16100	*14000	10050	*10800	7030			*8100	*8100	5350	5350
-15'	-4.6 m			*43,900	*43,900	*33,800	*33,800	*25,900	22,700	*19,100	16,100			*17,300	15,000	15,000	6800
				*19950	*19950	*15300	*15300	*11750	10300	*8650	7300			*7850	6800	6800	6800
-20'	-4.6 m					*22,300	*22,300	*16,000	*16,000					*14,900	*14,900	*14,900	6750
						*10100	*10100	*7250	*7250					*6750	*6750	*6750	6750

Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. *Load is limited by hydraulic capacity rather than tipping.



WORKING RANGE & BUCKET/ARM COMBINATION

PC400HD-6 with HD option		11' 1"	3380 mm arm
A	Max. digging height	36' 5"	11100 mm
B	Max. dumping height	25' 4"	7720 mm
C	Max. digging depth	25' 3"	7690 mm
D	Max. vertical wall digging depth	23' 2"	7060 mm
E	Max. digging depth of cut for 8' level	24' 7"	7490 mm
F	Max. digging reach	40' 8"	12040 mm
G	Max. digging reach at ground	38' 9"	11810 mm
H	Min. swing radius	15' 10"	4840 mm
Bucket digging force		50,490 lb	22900 kg
Arm Crowd force		43,210 lb	19600 kg



BACKHOE BUCKET AND ARM COMBINATION

BUCKET	CAPACITY		WIDTH		WEIGHT		# OF TEETH	ARM				
								7' 10" 2400mm	9' 6" 2900mm	11' 1" 3380mm	13' 1" 4000mm	15' 9" 4800mm
STANDARD PLATE	1.63 yd ³	1.25 m ³	36"	914 mm	2,723 lb	1235 kg	4	○	○	○	○	○
	2.00 yd ³	1.50 m ³	42"	1067 mm	3,015 lb	1368 kg	5	○	○	○	○	○
	2.38 yd ³	1.82 m ³	48"	1219 mm	3,210 lb	1456 kg	5	○	○	○	○	○
	2.75 yd ³	2.10 m ³	54"	1372 mm	3,540 lb	1606 kg	6	○	○	○	△	X
	3.00 yd ³	2.29 m ³	60"	1524 mm	3,729 lb	1691 kg	6	○	□	□	X	X
HEAVY DUTY PLATE	1.63 yd ³	1.25 m ³	36"	914 mm	3,302 lb	1498 kg	4	○	○	○	○	○
	2.00 yd ³	1.50 m ³	42"	1067 mm	3,683 lb	1671 kg	5	○	○	○	○	○
	2.38 yd ³	1.82 m ³	48"	1219 mm	3,894 lb	1766 kg	5	○	○	○	○	○
	2.75 yd ³	2.10 m ³	54"	1372 mm	4,260 lb	1932 kg	6	○	○	□	△	X
	3.00 yd ³	2.29 m ³	60"	1524 mm	4,516 lb	2048 kg	6	○	□	□	X	X
HEAVY DUTY CAST	1.25 yd ³	0.96 m ³	30"	762 mm	2,592 lb	1175 kg	4	○	○	○	○	○
	1.50 yd ³	1.15 m ³	33"	838 mm	2,794 lb	1267 kg	4	○	○	○	○	○
	1.75 yd ³	1.33 m ³	39"	991 mm	2,972 lb	1348 kg	4	○	○	○	○	○
	2.12 yd ³	1.62 m ³	45"	1143 mm	3,332 lb	1511 kg	5	○	○	○	○	○
								○	○	○	○	□

○ -Used with weights up to 3,040 lb/yd³ □ -Used with weights up to 2,520 lb/yd³ △ -Used with weights up to 2,020 lb/yd³ X -Not useable



GUIDELINES FOR MATCHING ESCO BUCKETS WITH APPLICATIONS

STANDARD DUTY PLATE BUCKET	HEAVY DUTY PLATE BUCKET	HEAVY DUTY CAST BUCKET	DITCH CLEANING BUCKET
<ul style="list-style-type: none"> • General purpose. • Truck loading. • Mass excavation. • General excavation in loam solid, sandy soils or soils containing very little rock. 	<ul style="list-style-type: none"> • General excavation in compact soils or dense clay. • Excavation in gravel or loosely embedded to moderate rock conditions. 	<ul style="list-style-type: none"> • Shot rock conditions. • Touch and abrasive excavating. 	<ul style="list-style-type: none"> • General purpose ditch cleanout. • Very light excavating in loam or sandy soils.

STANDARD EQUIPMENT

- Air cleaner, double element
- Alternator, **70A**
- Auto warm-up
- Auto deceleration
- Batteries, **2 x 12V/150Ah**
- Boom holding valve
- Cab which includes: antenna, ashtray, cigarette lighter, floor mat, front windshield washer, storage box, suspension seat, seat belt, and AM/FM radio.
- Controls, wrist type
- Counterweight, **19,600 lb** 8890 kg
- Dust proof net for radiator
- Electronic controller
- Guard, Fan
- Heater/defroster, **39,400 BTU**
- Inline filter
- Light, 1 front (RH)
- Overheat prevention
- Power max
- Pump/engine room partition
- Rear view mirror (RH & LH)
- Shoes, **27.6"** 700 mm triple grouser
- Starting motor, **11 kW**
- Speed down system
- Swing parking brake
- Swing priority mode
- Turbocharger cover
- Track, guiding guard
- Travel alarm
- Vandalism protection locks

OPTIONAL EQUIPMENT

- Air conditioner, **20,000 BTU**
- Alternator, 85A
- Arm holding valve
- Cab front window guard
- Counterweight deletion
- Counterweight remover
- High altitude area spec
- Hydraulic control unit (for breaker)
- Refueling pump
- Service valves (up to three)
- Shoes
 - **23.6"** 600 mm triple grouser
 - **27.6"** 700 mm triple grouser, HD
 - **31.5"** 800 mm triple grouser
- Storage, Hot/Cold
- Track roller guards (full length)
- Undercover
- Boom assembly
 - **23' 2"** 7000 mm
 - **23' 2"** 7000 mm with piping
 - **23' 2"** 7000 mm, HD
- Arm assembly
 - **7' 10"** 2400 mm
 - **9' 6"** 2900 mm
 - **9' 6"** 2900 mm with piping
 - **11' 1"** 3380 mm
 - **11' 1"** 3380 mm with piping
 - **11' 1"** 3380 mm, HD with piping
 - **13' 1"** 4000 mm
 - **15' 9"** 4800 mm
- **Sold only with bucket:**
 - Lug bushing
 - Play adjustment mechanism



AESS420-00 C-1/97

Materials and specifications are subject to change without notice.

KOMATSU

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H5B1

TÉL: (418) 549-0022

TÉL: 1-800-463-6550

Printed in USA

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