

# KOMATSU®

## PC1250LC-8 MATERIAL HANDLER

**NET HORSEPOWER**  
502 kW **672 HP** @ 1800 rpm

**OPERATING WEIGHT**  
110868–126626 kg  
**244,418–279,157 lb**

**REACH**  
16.8–21.3 m **55'–70'**

**PC**  
**1250**  
**LC**



Photos may include optional equipment

MATERIAL HANDLER

# WALK AROUND

*The Komatsu PC Material Handling series is a full product line with solutions for all of your material handling needs. Komatsu...the unparalleled, one-stop shopping source for rugged and cutting edge material handling equipment!*

**For Use In:**

- Scrap Processing
  - Stockpiling of recycled materials
  - Transfer station material feeding
- Bulk Material Handling
  - Coal, coke, and ore
  - Sand and gravel
  - Grain

**Features:**

- Excellent stability provided by long track and widened carbody (optional)
- Dual function machine, grapple or magnet operation
- Choice of elevated cabs for excellent all-around visibility
- Three-pump system provides smooth, fast, compound movements maximizing productivity
- Centralized lubrication points decrease service time

**Material Handling System Includes:**

- Choice of 16.8 m **55'** or 21.3 m **70'** two-piece attachment with underslung hydraulic cylinders
- Plumbing for grapple operation
- Electrical cable for magnet operation
- Centralized lube plumbing
- Magnet connecting link
- Manual tilt cab riser
- Access platform with stairs and railings
- Front window guard
- Hydraulic control package provides functions to open, close, and rotate grapple. Includes control handles and switches in cab
- Hydraulic-driven 55 kw generator
- Generator controller and magnet instrumentation mounted in the cab riser. Load power gauge with operating switches installed in operator's cab
- Parts, service, and operator's manuals



**NET HORSEPOWER**

502 kW 672 HP @ 1800 rpm

**OPERATING WEIGHT**

110868 – 126626 kg

**244,418 – 279,157 lb****REACH**

16.8 – 21.3 m

**55' – 70'****Hydraulics**

Unique three-pump system provides smooth compound movement of the work equipment. Electronic Open-center Load Sensing System (EOLSS) controls all pumps for efficient engine power use. This system also reduces hydraulic loss during operation.

**Large Comfortable Cab**

Low noise and vibration with cab damper mounting.

**Environment-Friendly Clean Engine**

The PC1250LC-8, which is equipped with the Komatsu SAA6D170E-5 engine, is USA EPA Tier 3 and EU stage 3A emissions certified. The SAA6D170E-5 engine adopts the world's first cooled EGR system with electronically controlled bypass-assist type venturi. NOx emissions are reduced by 40%, while maintaining high power and low fuel consumption.



The above image is a 3D illustration and may differ from actual engine.

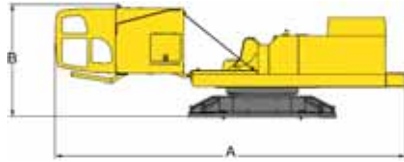






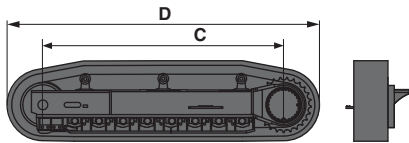
SHIPPING WEIGHTS AND DIMENSIONS (APPROXIMATE)

Upper Structure



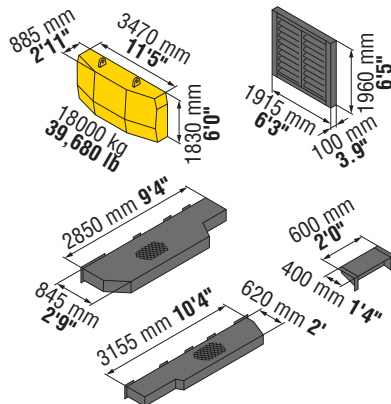
Description	Dimensions
A Overall length	10160 mm 33'4"
B Overall height	3306 mm 10'10"
Weight (includes gauge widener)	44452 kg 98,000 lb

Undercarriage (LC)



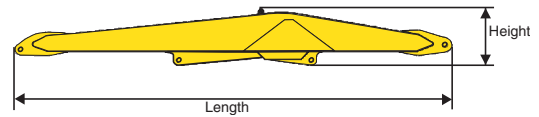
Description	Dimensions
C Length of track on ground	5970 mm 19'7"
D Length of track	7400 mm 24'3"
Track gauge (Std)	3912 mm 12'10"
Track gauge (Opt-widened)	4661 mm 15'3.5"
Overall width (Std): Extended	4900 mm 16'1"
Overall width (Opt-widened): Extended	5639 mm 18'6"
Weight (per side)	19958 kg 44,000 lb

Others



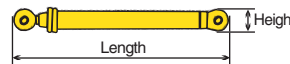
Weight	20412 kg 45,000 lb
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2-Piece Front



Description	Model	K02US55-PC1250-8		K02US70-PC1250-8	
		16.8 m 55' front Boom	Stick	21.3 m 70' front Boom	Stick
Length	mm ft in	9500 31'2"	8230 27'0"	11887 39'0"	10109 33'2"
Width	mm ft in	1372 4'6"	686 2'3"	1372 4'6"	686 2'3"
Height	mm ft in	1397 4'7"	1448 4'9"	1829 6'0"	1829 6'0"
Weight	kg lb	8618 19,000	4990 11,000	13721 30,250	6418 14,150

Arm Cylinder Group



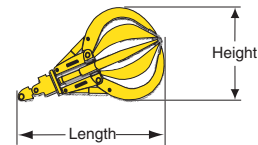
Description	2-Piece Front
Length	4115 mm 13'6"
Height	559 mm 1'10"
Weight	1633 mm 3,600

Boom Cylinders



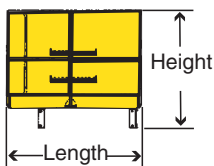
Description	2-Piece Front
Length	3810 mm 12'6"
Height	360 mm 1'2"
Weight	1197 kg ea. x 2 2,640 lb ea. x 2

Grapple



Description	Model N05-400	Model N05-600	Model N05-700
Length	3658 mm 12'0"	4267 mm 14'0"	4572 mm 15'0"
Width	2438 mm 8'0"	2743 mm 9'0"	2896 mm 9'6"
Height	2591 mm 8'6"	2896 mm 9'6"	3048 mm 10'0"
Weight	4763 kg 10,500 lb	7983 kg 17,600 lb	8391 kg 18,500 lb

Platform, Ladder, and Railing



Description/Model	1981 mm 78" (6'6") Riser	3353 mm 132" (11'0") Riser
Dimensions	L x W x H	L x W x H
mm	1845 x 1245 x 1168	4318 x 1270 x 3353
ft in	6'1" x 4'1" x 3'10"	14'2" x 4'2" x 11'0"
Weight	kg lb	kg lb
	200 440	3402 7,500

# PC1250LC-8 MATERIAL HANDLER

# LIFTING CAPACITIES



## LIFTING CAPACITY

- A: Reach from swing center
- B: Stick tip height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side

- Conditions:  
(In addition to PC1250LC-8 base machine)
- 2-piece front attachment with hydraulic cylinders

- 1981 mm 78" manual tilt cab riser with platform, stairs, and handrails
- 153.5" gauge

PC1250LC-8		Young 2-Piece Front - 16.8 m 55' (K02US55-PC1250LC-8)																		Unit: kg lb		
A	B	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		10.7 m 35'		12.2 m 40'		13.7 m 45'		15.2 m 50'		16.8 m 55'		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
18.3 m 60'																						
16.8 m 55'										*17900	*17900											
15.2 m 50'										*21500	*21500	*17700	*17700									
13.7 m 45'												*21000	*21000	*16800	*16800							
12.2 m 40'												*21200	*21200	*20000	*20000	*14800	*14800					
10.7 m 35'												*21400	*21400	*20200	*20200	*18400	17100					
9.1 m 30'										*23600	*23600	*22000	*22000	*20500	*20500	*19200	17000	*14900	14100			
7.6 m 25'										*25000	*25000	*22900	*22900	*21000	20300	*19500	16700	*17700	14000			
6.1 m 20'								*30400	*30400	*26800	*26800	*24000	*24000	*21700	19800	*19900	16400	*18200	13800			
4.6 m 15'				*52900	*52900	*41200	*41200	*33700	*33700	*28800	*28800	*25200	23700	*22500	19300	*20300	16100	*18300	13600	*12200	11600	
3.0 m 10'				*64500	*64500	*46500	*46500	*36700	*36700	*30600	28700	*26300	22800	*23100	18700	*20500	15600	*18300	13300	*12900	11500	
1.5 m 5'				*20700	*20700	*50000	49900	*38900	35700	*31900	27500	*27100	22000	*23500	18200	*20600	15300	*18100	13100			
0.0 m 0'				*17500	*17500	*39900	*39900	*39800	34300	*32500	26500	*27400	21400	*23500	17700	*20400	15000	*17500	12900			
-1.5 m -5'				*18500	*18500	*33500	*33500	*39100	33300	*32000	25800	*26900	20900	*22900	17400	*19500	14800	*16300	12800			
-3.0 m -10'				*20600	*20600	*32900	*32900	*37000	32800	*30500	25400	*25600	20500	*21600	17100	*18000	14700	*14200	12800			
-4.6 m -15'				*23300	*23300	*34500	*34500	*33300	32700	*27700	25200	*23100	20500	*19200	17100	*15400	14700					
-6.1 m -20'								*27900	*27900	*23400	*23400	*19400	*19400									

Note: Capacities are measured at the bare stick tip.

Capacities marked with an asterisk (\*) are limited by hydraulic capacities rather than stabilities.

1. Lifting capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Data supplied by AEM.
2. Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be considered part of the load.
3. Lifting capacities assume the machine is standing level on a firm, uniform supporting surface. The user must make allowances for unfavorable job conditions such as soft or uneven ground or sudden stopping of loads.
4. The least stable position is over the side.
5. The operator should be fully acquainted with the Operation Manual before operating the machine.
6. Capacities apply only to the machine equipped as stated here.
7. Capacities are based on PCSA gross rated loads.



## LIFTING CAPACITY

A: Reach from swing center  
 B: Stick tip height  
 C: Lifting capacity  
 Cf: Rating over front  
 Cs: Rating over side

Conditions:  
 (In addition to PC1250LC-8 base machine)

- 2-piece front attachment with hydraulic cylinders
- 1981 mm 78" manual tilt cab riser with platform, stairs, and handrails

- 5000 lb additional counterweight
- Carbody widened 30" raised 4.75"
- 183.5" gauge

PC1250LC-8		Young 2-Piece Front - 21.3 m 70' (K02US70-PC1250LC-8)																				Unit: kg lb		
A	B	6.1 m 20'		7.6 m 25'		9.1 m 30'		10.7 m 35'		12.2 m 40'		13.7 m 45'		15.2 m 50'		16.8 m 55'		18.3 m 60'		19.8 m 65'		21.3 m 70'		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
21.3 m 70'								*14500	*14500															
19.8 m 65'								*17300	*17300	*14700	*14700													
18.3 m 60'								*38,200	*38,200	*32,400	*32,400													
16.8 m 55'										*16600	*16600	*14300	*14300											
15.2 m 50'										*36,500	*36,500	*31,500	*31,500											
13.7 m 45'										*16100	*16100	*15100	*15100	*13600	*13600									
12.2 m 40'										*35,600	*35,600	*33,200	*33,200	*29,900	*29,900									
10.7 m 35'										*15900	*15900	*14900	*14900	*13900	*13900	*12300	*12300							
9.1 m 30'										*35,100	*35,100	*32,800	*32,800	*30,700	*30,700	*27,200	*27,200							
7.6 m 25'										*16000	*16000	*14800	*14800	*13800	*13800	*13000	*13000	*10100	*10100					
6.1 m 20'										*35,200	*35,200	*32,700	*32,700	*30,500	*30,500	*28,600	*28,600	*22,300	*22,300					
4.6 m 15'										*16100	*16100	*14900	*14900	*13900	*13900	*13000	*13000	*12100	*12100					
3.0 m 10'										*16500	*16500	*15100	*15100	*14000	*14000	*13000	*13000	*12100	*12100	*9400	*9400			
-1.5 m 5'										*36,400	*36,400	*33,400	*33,400	*30,900	*30,900	*28,700	*28,700	*26,600	*26,600	*20,700	*20,700			
0.0 m 0'										*18800	*18800	*17000	*17000	*15500	*15500	*14200	*14200	*13100	*13100	*12100	*12100	*11100	*11100	
-3.0 m -10'										*41,400	*41,400	*37,400	*37,400	*34,200	*34,200	*31,400	*31,400	*28,900	*28,900	*26,700	*26,700	*24,500	*24,500	
-4.6 m -15'										*22300	*22300	*19600	*19600	*17600	*17600	*15900	*15900	*14500	*14500	*13200	*13200	*12200	*12200	
-6.1 m -20'										*49,100	*49,100	*43,300	*43,300	*38,800	*38,800	*35,000	*35,000	*31,900	*31,900	*29,200	*29,200	*26,800	*26,800	
-7.6 m -25'										*27000	*27000	*23800	*23800	*20600	*20600	*18200	*18200	*16300	*16300	*14700	*14700	*13400	*13400	
										*59,600	*59,600	*52,400	*52,400	*45,500	*45,500	*40,200	*40,200	*36,000	*36,000	*32,500	*32,500	*29,600	*29,600	
										*38600	*38600	*30500	*30500	*25300	*25300	*21600	*21600	*18900	*18900	*16700	*16700	*15000	*15000	
										*85,200	*85,200	*67,300	*67,300	*55,700	*55,700	*47,600	*47,600	*41,600	*41,600	*36,900	*36,900	*33,000	*33,000	
										*36700	*36700	*32500	*32500	*26500	*26500	*22400	*22400	*19400	*19400	*17100	*17100	*15100	*15100	
										*80,800	*80,800	*71,700	*71,700	*58,500	*58,500	*49,400	*49,400	*42,700	*42,700	*37,600	*37,600	*33,400	*33,400	
										*11600	*11600	*33800	*33800	*27400	*27400	*23000	*23000	*19700	*19700	*17200	*17200	*15200	*15200	
										*25,600	*25,600	*74,500	*74,500	*60,400	*60,400	*50,600	*50,600	*43,500	*43,500	*38,000	*38,000	*33,500	*33,500	
										*8900	*8900	*22400	*22400	*27600	*27600	*23100	*23100	*19800	*19800	*17200	*17200	*15100	15100	
										*19,600	*19,600	*49,400	*49,400	*60,900	*60,900	*51,000	*51,000	*43,600	*43,600	*37,900	*37,900	*33,300	33,300	
										*8900	*8900	*18000	*18000	*27200	*27200	*22800	*22800	*19500	*19500	*16900	*16900	*14700	*14700	
										*19,700	*19,700	*39,700	*39,700	*60,000	*60,000	*50,300	*50,300	*43,000	*43,000	*37,200	*37,200	*32,500	*32,500	
										*9900	*9900	*17100	*17100	*26100	*26100	*22000	*22000	*18800	*18800	*16300	*16300	*14100	*14100	
										*21,900	*21,900	*37,700	*37,700	*57,600	*57,600	*48,600	*48,600	*41,500	*41,500	*35,900	*35,900	*31,100	*31,100	
										*11300	*11300	*17600	*17600	*24400	*24400	*20700	*20700	*17700	*17700	*15200	*15200	*13100	*13100	
										*24,900	*24,900	*38,800	*38,800	*53,700	*53,700	*45,600	*45,600	*39,100	*39,100	*33,600	*33,600	*28,900	*28,900	
										*12900	*12900	*18800	*18800	*21900	*21900	*18700	*18700	*16100	*16100	*13800	*13800	*11700	*11700	
										*28,400	*28,400	*41,500	*41,500	*48,200	*48,200	*41,300	*41,300	*35,400	*35,400	*30,400	*30,400	*25,700	*25,700	
										*20600	*20600	*18600	*18600	*16100	*16100	*13800	*13800	*11700	*11700	*9600	*9600			
										*45,500	*45,500	*41,000	*41,000	*35,500	*35,500	*30,400	*30,400	*25,800	*25,800	*21,100	*21,100			

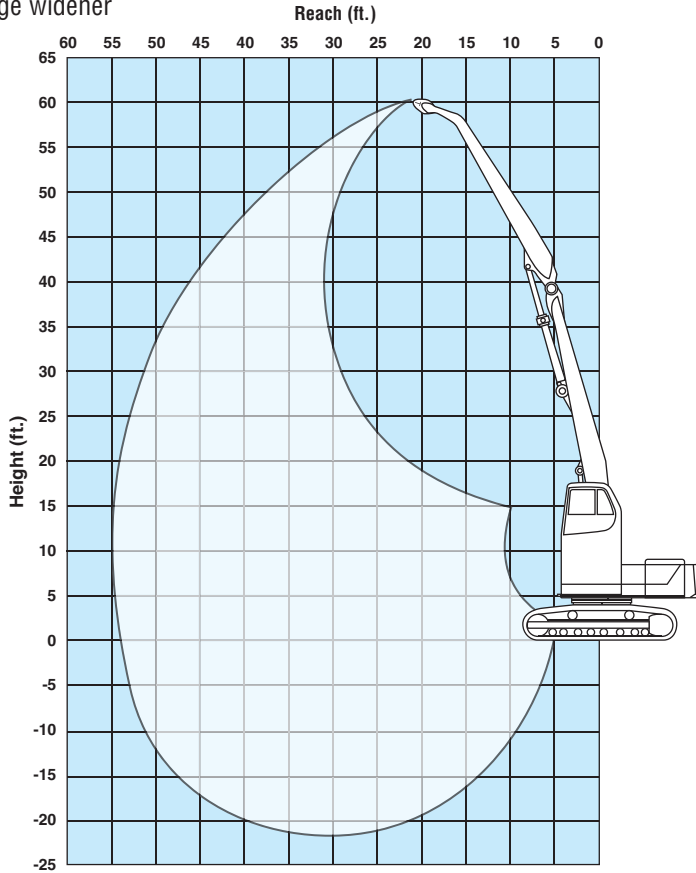
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# WORKING RANGES

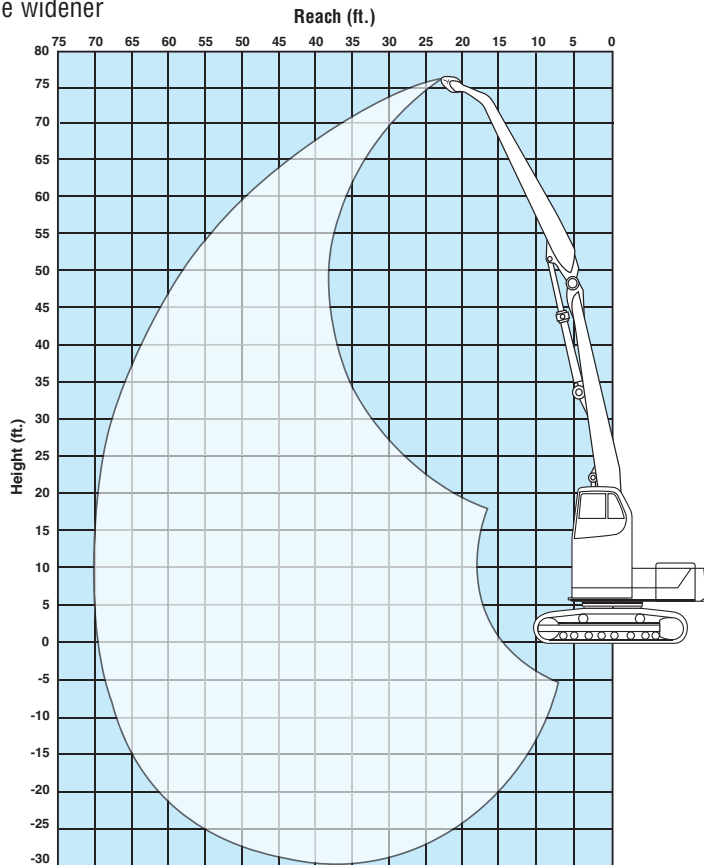
**Young 2-Piece Front** — 16.8 m 55' w/ gauge widener  
(K02US55-PC1250LC-8)

Maximum Height — 18.5 m 60'9"  
Maximum Reach — 16.8 m 55'



**Young 2-Piece Front** — 21.3 m 70' w/ gauge widener  
(K02US70-PC1250LC-8)

Maximum Height — 23.2 m 76'2"  
Maximum Reach — 21.3 m 70'



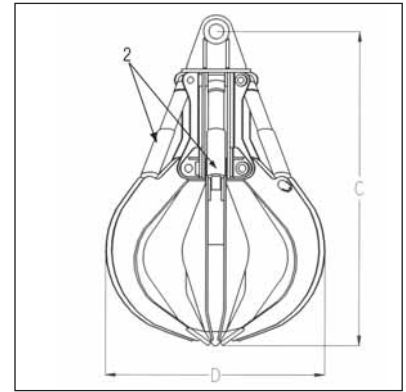
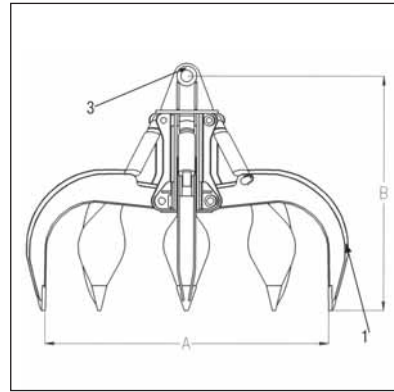


# ATTACHMENTS

### Grapple Selection Guide

Komatsu Model	PC1250LC-8			
	Young			
Recommended Grapple Model	NO5-700 16.8 m 55'	NO5-600 16.8 m 55'	NO5-400 21.3 m 70'	
Size	m <sup>3</sup> yd <sup>3</sup>	5.35 7.0	4.58 6.0	3.0 4.0
Weight	kg lb	8845 19,500	7484 16,500	4763 10,500
A	mm in	4420 174	4089 161	3505 138
B	mm in	3810 150	3632 143	3150 124
C	mm in	4547 179	4267 168	3785 149
D	mm in	3023 119	2769 109	2413 95

### Typical 5-Tine Grapple (Orange Peel)



1. Grapple Tines

2. Grapple Cylinders

3. Mounting Pin

#### Grapple Applications:

Select a grapple whose weight including material does not exceed the lift capacity shown for your specific machine.

**Note:** Conditions and material densities vary. Confirm your specific load density before determining safe machine balance.

#### General Material Weights:

1. Steel scrap, clippings compressed or bundled weighs approximately 919 kg **2,025 lbs** per yd<sup>3</sup>.
2. Shredded steel scraps, unprepared weighs approximately 612 kg **1,350 lbs** per yd<sup>3</sup>.

### General Magnet Selection Guide

Magnet Size			Generator KW Rating					Approximate Magnet Operating Weight		Lifting Capacity					
Diameter		Cold Amps								A		B		C	
in	mm	Max.	10	15	20	25	33	kg	lb	kg	lb	kg	lb	kg	lb
40	1016	30	T					816	1,800	408	900	272	600	170	375
45	1143	39	M					1270	2,800	816	1,800	499	1,100	283	625
48	1219	58		T				1315	2,900	794	1,750	526	1,160	272	600
57	1447	58		M				1860	4,100	1225	2,700	805	1,775	385	850
57	1447	80			T			1996	4,400	1225	2,700	816	1,800	385	850
66	1676	80			M			2812	6,200	1860	4,100	1247	2,750	612	1,350
66	1676	100				T		2903	6,400	1860	4,100	1247	2,750	612	1,350
72	1828	103				M		3719	8,200	2132	4,700	1429	3,150	680	1,500
72	1828	132					T	3765	8,300	2132	4,700	1429	3,150	680	1,500
78	1981	132					M	4445	9,800	2585	5,700	1776	3,915	844	1,860

T = Typical M = Maximum

#### Magnet Selection:

1. Select a magnet whose weight, including lifted material, does not exceed the lift capacity shown for your specific machine.
2. Select a magnet with a cold amp rating equal to or less than the figures shown in this chart.

#### Legend:

- A:** Pig iron and #1 hot melt; refers in general to low iron content slag or slabs.
- B:** #2 broken; scrap steel or cut offs.
- C:** Steel turnings; scrap from machining processes.



## STANDARD EQUIPMENT

### ENGINE AND RELATED ITEMS:

- Air cleaner, double element, dry type
- Auto decelerator
- Electric fuel priming pump
- Engine, Komatsu SAA6D170E-5
- Fuel pre-filters (10 micron) with water separator
- Fuel primary filter (2 micron)
- Variable speed cooling fan, hydraulic drive, reversible

### ELECTRICAL SYSTEM:

- Alternator, 90 amp, 24 V
- Batteries, 220 Ah, 2 x 12 V
- Interconnected horn and flashing light
- Power supply, 12V
- Starting motors, 11kW x 2
- Step light with timer
- Working lights-2 boom, 2 cab top front, 1 cab bottom

### UNDERCARRIAGE:

- 1000 mm **39.4"** double grouser
- 10 track/3 carrier rollers (each side)
- Hydraulic track adjusters (each side)
- Track guiding guard (each side)

### GUARDS AND COVERS:

- Engine thermal guards and fan guard
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition
- Revolving frame under cover (Heavy-duty)
- Track frame undercover (center)
- Travel motor guards

### OPERATOR ENVIRONMENT:

- Automatic air conditioner/heater/defroster system
- Damper mount, all-weather, pressurized, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window wiper and washer, floor mat, cigarette lighter and ashtray
- FOPS (OPG top guard level 2)
- Instrument panel with electronic display/monitor system, electronically-controlled throttle dial, electric service meter, gauges (coolant temperature, hydraulic temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock light) level check lights (coolant, engine oil, and hydraulic oil level), self-diagnostic system with trouble data memory
- Pull-up type front window, lockable
- Radio, AM-FM
- Rearview mirrors, left and right
- Seat, fully adjustable with suspension
- Seat belt 78 mm **3"** non-cinching

### HYDRAULICS:

- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control levers and pedals for steering and travel with PPC system
- Fully hydraulic, with Electronic Open-Center Load-Sensing (EOLSS) and engine speed sensing (pump and engine mutual control system)
- In-line high pressure hydraulic filters
- Oil cooler, hydraulic

- One gear pump for control circuit
- One axial piston motor per track for travel with counter balance valve
- Shockless boom control
- Swing priority mode
- Three variable capacity piston pumps (2 Main, 1 Swing)
- Three control valves, 5+4+4 spools (boom, arm, bucket, swing, and travel)
- Two axial piston motors for swing with single-stage relief valve
- Two-mode setting for boom
- Working modes: Power, Economy (four level), Heavy Lift

### DRIVE AND BRAKE SYSTEM:

- Brakes, hydraulic lock travel brakes, oil disc parking
- Hydrostatic two travel speed system with planetary double reduction final drive

### OTHER STANDARD EQUIPMENT:

- Automatic swing holding brake
- Corrosion resister
- Counterweight, 18000 kg **39,680 lb**
- Grease gun, air pump type
- Horn, air
- Large handrails and steps
- Lift capacity chart
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Slip resistant plates
- Travel alarm
- Vandalism protection
- Vehicle Health Monitoring System (VHMS) with ORBCOMM
- Wide catwalk



## OPTIONAL EQUIPMENT

- 5000 lb additional counterweight (required with **70'** 2 piece front)
- Boom
  - 16.8 m **55'** 2-piece MH front
  - 21.3 m **70'** 2-piece MH front (requires widened carbody and 5000 lb additional counterweight)

- Cab riser
  - 1981 mm **78"** manual tilt
  - 3352 mm **11'** up and 1219 mm **4'** forward
- Grapples
  - 3.0 m<sup>3</sup> **4.0 yd<sup>3</sup>** orange peel
  - 4.5 m<sup>3</sup> **6.0 yd<sup>3</sup>** orange peel
  - 5.3 m<sup>3</sup> **7.0 yd<sup>3</sup>** orange peel

- 55 kW hydraulic drive generator (requires 3352 mm **11'** riser)
- Revolving frame undercover (HD)
- Shoes
  - 1200 mm **47.25"** double grouser
  - 700 mm **28"** double grouser
- Track roller guards (full length)
- Track frame undercover
- Widened carbody (required with **70'** 2 piece front)

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