ENGINE POWER 2 x 1500 kW / 2010 HP @ 1800 rpm

OPERATING WEIGHT

 $752 – 777 \; ton \; / \; 1,658,200 – 1,713,300 \; lb$

SHOVEL CAPACITY

42 m³ / 55 yd³ SAE 2:1 heaped

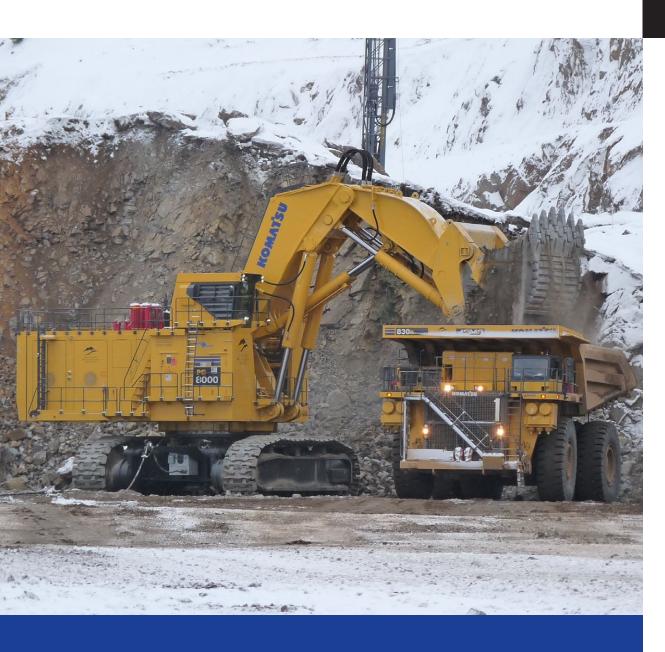
BACKHOE CAPACITY

 $42 \text{ m}^3 / 55 \text{ yd}^3 \text{ SAE 1:1 heaped}$

KOMATSU

PC8000-6 Loading Shovel PC8000-6 Backhoe

PC 8000



Hydraulic Excavator

WALK-AROUND



Quality in Manufacturing

Commitment to "Quality and Reliability"

- Quality management ISO 9001
- Environmental management ISO 14001
- Occupational health and safety management system BS OHSAS 18001:2007
- High consistent quality through continuous investment in personnel, design and manufacturing systems and processes

Powerful Diesel Engine

Two Komatsu SDA16V160E-2 Tier 2 engines

- Rated (each) 1500 kW (2100 HP), at 1800 rpm
- · Electronic engine management
- · Low engine emission levels Tier 2 certificated
- Time saving Engine Oil Management System;
 Centinel, Engine Reserve Oil Supply and Eliminator
 Oil Filter System

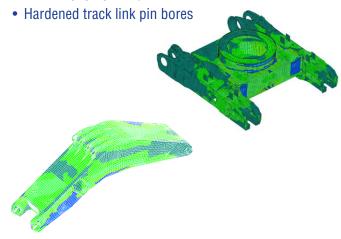
Reliability and Durability

Long life and low operating cost by design

 Robust structural design developed from field experience and finite element analysis

Undercarriage

- Large diameter rollers, idlers and sprockets
- Large surface area and extensive precision hardening of all engaging components reduce track wear



HYDRAULIC EXCAVATOR

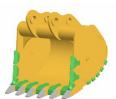
Productivity

Designed for more tons per hour

- · Powerful digging forces
- · Ease of bucket filling
- · Proven attachment design
- All cylinders mounted in the shadow of the attachment for protection
- · Various buckets and wear packages to suit all material densities and properties
- IPCC Systems up to 8,000 t/h









Advanced Hydraulics

Extended reliability and precise control

- Comprehensive monitored filtration
- Simple open circuit hydraulic system with high efficiency swing out oil coolers

Large Comfortable Cab

Comfortable for the whole day

- Komatsu low noise cab on multiple viscous mounts for reduced noise and vibration
- · Large volume cab with full height front window
- Comprehensive climate control with pressurised filtered air ventilation and air conditioning
- High specification multi-adjustable air suspension seat plus trainer seat
- Well elevated operator position giving good all round view
- · Large wash wiper covers windshield area for excellent visibility

Easy and Safe Maintenance

Simple, common-sense design provides easy access to all major components

- Generous access to all major service points from machinery house floor level
- Enclosed, walk-in machinery house with partition wall separating engines from pump area
- · Automatic central lubrication
- KOMTRAX Plus electronic monitoring system providing real time information about the operating status of the machine
- Ground-level access to hydraulically powered swing down service arm with Wiggins connections
- Acknowledges EMESRT design philosophies

MATCHES

240 to 400 U.S. ton TRUCKS

OPERATING WEIGHT

Shovel 752–767 ton 1,658,200–1,691,200 lb

Backhoe 763–777 ton 1,682,400–1,713,300 lb

BUCKET CAPACITY

Shovel 42 m³ / 55 yd³ Backhoe 42 m³ / 55 yd³

SPECIFICATIONS



DIESEL DRIVE

Tier 2 engine:
Model2 x Komatsu SDA16V160E-2
Type 4-cycle, water-cooled, direct injection
AspirationTurbocharged and aftercooled
Number of cylinders16
Rated power 2 x 1500 kW (2010 HP) @ 1800 rpm
(SAE 1995/J1349)
Governor
The integrated engine oil and filter system combining the oil stabilising
systems, Reserve and Centinel, with Eliminator oil filter extends the
oil change interval to 4.000 hours based on oil analysis. The high
capacity Mesabi engine radiators are cooled by a hydraulically driven
fan for superior cooling efficiency.



ELECTRIC SYSTEM (Diesel Version)

System	24 V
Batteries (series/parallel)	8 x 12 V
Alternator	2 x 100 A
Standard working lights	14 Xenon Lights
Standard service lights	Throughout platform



ELECTRIC DRIVE

Type	. 2 x Squirrel-cage induction motor
Power output	2 x 1450 kW
Voltage	6.000 – 7.200 V*
Amperage (approximate)	2 x 155 A – 2 x 128 A
Frequency standard	60 Hz @ 1800 rpm
Frequency option	50 Hz @ 1500 rpm
*Other voltages available on reque	est





ELECTRIC SYSTEM (Electric Version)

System	24 V
Batteries (series/parallel)	4 x 12 V
Standard working lights	14 Xenon Lights
Standard service lights	Throughout platform



UNDERCARRIAGE

Track adjustment	. Automatic hydraulic type
Number of shoes	49 each side
Number of top rollers	3 each side
Number of bottom rollers	8 each side



TRAVEL AND BRAKE SYSTEMS

Travel control 2 foot pedals
Gradeability
Travel speed (maximum) 2,4 km/h / 1.5 mph
Service brake
Parking brake Wet, multiple-disc



SWING SYSTEM

Hydraulic motors and drives	3
Swing brake, service	Hydraulic brake
Swing brake, parking	Wet, multiple-disc
Swing ring teeth	External
Swing speed (maximum)	2,7 rpm



HYDRAULICS

The power train consists of two main drives. Each of two gearboxes drives four identical pumps which draw hydraulic oil from an unpressurised hydraulic tank. Open circuit hydraulics provide maximum cooling and filtering efficiency.

Rated flow (total output)	. 8.280 ltr/min	2,190 gpm
Relief valve setting	310 bar	4,495 psi
Swing flow rate	. 2.070 ltr/min	547 gpm
High pressure in line filters		200 microns
one per pump located at the valve blocks		
Full flow return line filters (7 elements)		.10 microns
at head of hydraulic tank		
Case drain/by-pass return line filters		3 microns
The four-circuit system features a load-	-limiting gover	nor with oil

The four-circuit system features a load-limiting governor with oil delivery summation to the working circuits and incorporates pressure cut-off control. Hydropilot prioritises hydraulic flow giving smooth hydraulic response, simple hydraulic system layout, and a reduced number of components. The hydraulic system includes large swing-out vertical air-to-oil hydraulic coolers with temperature-regulated hydraulically driven fans.



AUTOMATIC CENTRALISED LUBRICATION

Three hydraulically powered Lincoln single line automatic lubrication systems are provided as standard, complete with time and volume variable controls. The two central lubrication circuits and open gear grease circuit are supplied by identical pump assemblies from refillable containers which have a capacity of 3 x 300 litres (3 x 80 gal.). Replenishment of the containers is through the Wiggins connections on the service arm.



SERVICE CAPACITIES

Hydraulic oil tank	.350 ltr	2,206 U.S. gal
Hydraulic system	.500 ltr	3,040 U.S. gal
Fuel	.900 Itr	3,672 U.S. gal
Engine coolant 2 x	475 ltr 2	x 125 U.S. gal
Engine oil 2 x	290 ltr 2	x 77 U.S. gal
Reserve engine oil make up tank 2 x 1.	.056 ltr 2	x 279 U.S. gal

HYDRAULIC EXCAVATOR



OPERATOR CAB

The large and comfortable cab is mounted on 18 viscous damping pads and sound insulated. The cab has automatic climate control and is pressurised. The operator's seat is air suspended, electrically heated and has a lap seat belt and offers multiple adjustments. The trainer seat is also equipped with a lap seat belt. Low-effort joystick controls are electro-hydraulic with foot controls for front shovel clam, crawler and swing brake. Full instrumentation, KOMTRAX Plus and an AM/FM radio with MP3 ready CD player is fitted.

The windshield wash wiper has two speeds and intermittent operation. Amenities include a refrigerator and storage cabinets. Powered and heated mirrors are adjusted from inside the cab. External metal sun blinds on the cab side window and internal roller blinds on all windows are standard. The right hand window is an emergency exit. All windows are tinted parsol green. A walkway is mounted in front of cabin.

Major cab engineering standards are:

- ISO 3449 Falling Objects Protection Structure (FOPS)
- ISO 6396 Noise in operator's cab is 78 dB(A)
- ISO 2631-1 Whole body vibration and shock below 0,5 m/s²
- ISO 5349-1 Hand-lever vibration lower 2,5 m/s²
- ISO 10263-4 Heating and air conditioning second heater or air conditioner as option



KOMTRAX Plus HEALTH MONITORING SYSTEM

KOMTRAX Plus is designed for Komatsu mining equipment to provide real time information about the operating status of the machine via a coloured display. The integrated digital storage provides a full event history and trend data, which can be downloaded by laptop. Optionally available are W-LAN or Orbcomm satellite transmission (check for availability in your territory).



OPERATING WEIGHTS (APPROXIMATE)

PC 8000 Backhoe:

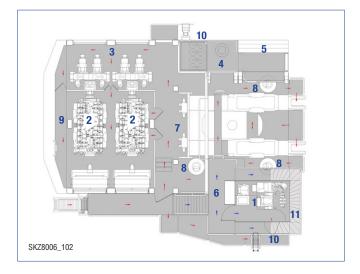
Operating weight including 11.500 mm / 37'9" boom, 5.500 mm / 18'0" stick, 42 m³ / 55.0 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank and standard equipment.

Shoe Width	Operating Weight	Ground Pressure
1.500 mm	763 t	27,9 N/cm ²
59"	1,682,400 lb	40.4 psi
1.900 mm	777 t	22,4 N/cm ²
75"	1.713.300 lb	32.5 psi

PC 8000 Front Shovel:

Operating weight including $8.150\ mm\,/\,26'9"$ boom, $5.750\ mm\,/\,18'9"$ stick, $42\ m^3\,/\,55.0\ yd^3$ shovel bucket, operator, lubricant, coolant, full fuel tank and standard equipment.

Shoe Width	Operating Weight	Ground Pressure
1.500 mm	752 t	27,5 N/cm²
59"	1,658,200 lb	39.9 psi
1.900 mm	767 t	22,1 N/cm ²
75"	1,691,200 lb	32.0 psi



2 2 SKZ8006_103

Diesel Drive

- 1 Cab
- 2 Diesel Engines
- 3 Hydraulic Pumps
- 4 Hydraulic Tank
- 5 Hydraulic Coolers
- 6 Fuel Tank

- 7 Valve Blocks
- 8 Swing Motors
- 9 Counterweight
- 10 Secondary Egress
- 11 See-through Cab Walk

Variation for Electric Drive Version

- 2 Electric Motors
- 6 Hight Voltage Electric Cabinet

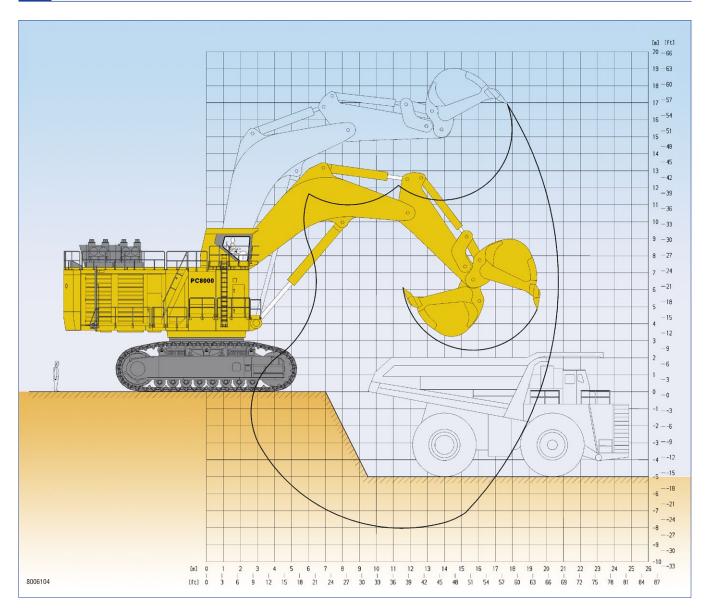
Walkways



PRODUCTIVITY-FEATURES

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BACKHOE ATTACHMENT



Boom length	11.500 mm	37'9"
Stick length	5.500 mm	27'7"
Break-out force (SAE)	2.000 kN	449,500 lb
Tear-out force (SAE)	1.800 kN	404,600 lb

Max. digging height	16.900 mm	55'5"
Max. dumping height	11.200 mm	36'9"
Max. digging depth	8.000 mm	26'3"
Max. digging reach	20.700 mm	67'11"
Max, digging reach at ground level	19.600 mm	64'4"

Bucket 0 (Heaped	. ,	w	idth	Teeth	Wear Package	We	eight		erial Density
cum	cuyd	mm	foot/inch	qty	*)	t	lb	t/cum	lb/cuyd
42,0	55.0	4.575	15'	6	2	48,0	105,840	1,8	3,000

^{*)} WP 1 Light abrasive

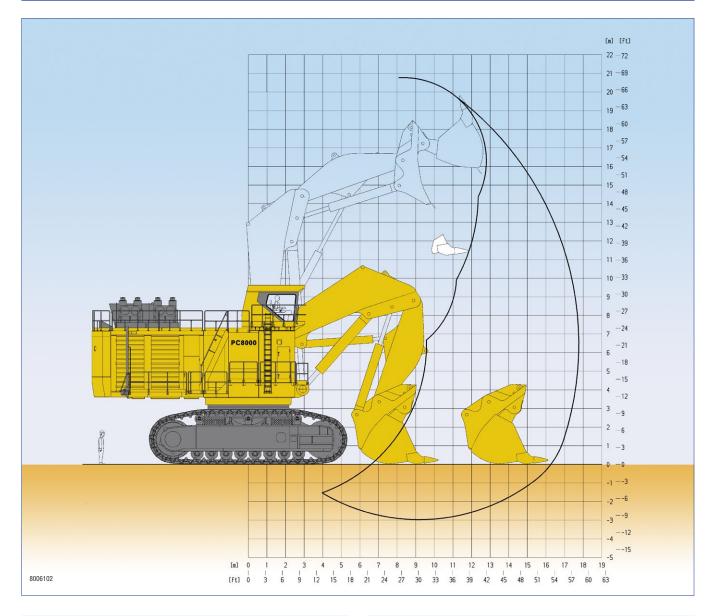
WP 2 Medium abrasive

WP 3 Severe abrasive

Alternative buckets on request



FRONT SHOVEL ATTACHMENT



Boom length	8.150 mm	26'9"
Stick length	5.750 mm	18'9"
Break-out force (SAE)	2.320 kN	521,500 lb
Crowd force (SAE)	2.320 kN	521,500 lb

Max. cutting height	20.900 mm	68'7"
Max. dumping height	13.900 mm	45'7"
Max. digging depth	3.000 mm	9'10"
Max. digging reach	17.800 mm	58'5"
Level crowd at ground level	5.900 mm	19'4"
Bucket opening width	3.200 mm	10'6"

Bucket ((Heaped		w	idth	Teeth	Wear Package	We	eight		rial Density ose)
cum	cuyd	mm	foot/inch	qty	*)	t	lb	t/cum	lb/cuyd
28,0	37.0	4.575	15'	6	3	62,3	137,370	2,8	4,700
36,0	47.0	5.375	17'8"	6	3	70,7	155,890	2,0	3,400
42,0	55.0	5.375	17'8"	6	2	69,7	153,690	1,8	3,000

^{*)} WP 1 Light abrasive

HYDRAULIC MINING SHOVEL

FRONT SHOVEL ATTACHMENT

- 8.15 m / 26'9" boom
- 5,75 m / 18'9" stick
- · Set of cylinders
- 42 m³ / 55 yd³ (SAE 2:1) shovel bucket incl. standard wear package (WP2) with hammerless GET system

0R

BACKHOE ATTACHMENT

- 11,5 m / 37'9" boom
- 5,5 m / 18'0" stick
- · Set of cylinders
- 42 m³ / 55 yd³ (SAE 1:1) bucket incl. standard wear package (WP2) with hammerless GET system

CRAWLER UNDERCARRIAGE

- · Heavy-duty shovel type undercarriage
- · Centre carbody
- 2 heavy box-type track frames
- 8 bottom rollers and 3 top rollers each side
- 1500 mm / 59" cast steel track shoes
- Hydraulic track adjustment and parking brake

SUPERSTRUCTURE

- Main frame mounted over an externally toothed swing circle carries the drive module
- 2 x Komatsu SDA16V160E-2 Tier 2 diesel engines
- · Oil and fuel reservoirs
- · Hydraulic components
- · Counterweight

LIGHTING

- · 14 Xenon high performance working lights
- · Service lights throughout platform

OPERATOR CAB

- Enclosed steel cab mounted on viscous pads
- FOPS according ISO 3449
- · Air-conditioning unit Sütrak
- Full suspension operator seat with belt
- · Trainer seat with belt
- Controls ergonomic
- KOMTRAX Plus (Monitoring System)
- · Joysticks are electro-hydraulic
- 1 large parallel windshield wash wiper
- AM-FM radio with MP3 ready CD player
- · Internal and external sun blinds
- · All windows tinted parsol green
- · Walkway in front of cab

LUBRICATION

- LINCOLN central lubrication for basic machine and attachment
- LINCOLN central lubrication for bucket and bucket stick assembly
- LINCOLN automatic pinion lubrication system for swing circle teeth
- WIGGINS service arm carrying fluid receiving connectors for filling of fuel, engine oil and coolant, hydraulic oil, grease, and the evacuation of coolant, hydraulic and engine oils

ACCESSORIES INCLUDED

- Acoustic travel alarm
- Hydraulically actuated ground access ladder
- · Electric air horn
- · Engine turbo and exhaust pipes cover
- Engine oil management package (Centinel, Reserve & Eliminator systems)
- · Service transfer oil pump
- Sidewalks and stairs are provided with skid-resistant plates
- Hand rails and steps on boom
- Tie off points on boom



OPTIONAL EQUIPMENT

ATTACHMENT/BUCKET

- · Boom cylinder sliding guard
- · Stick cylinder sliding guard
- · Bucket cylinder sliding guard (BH)

UNDERCARRIAGE

• 1.900 mm / 75" track shoes

POWER

- · Electro drive various voltages
- · Cable drum without cable

COLD WEATHER

- Cold weather package down to -40° C (diesel and electro drive)
- Arctic weather package down to -50° C (diesel and electro drive)
- KIM Hotstart temperature treatment for ambient temperature down to -50° C (diesel and electro drive), external power source not included

SPECIFIC HYDRAULIC OIL

· Biodegradable hydraulic oil

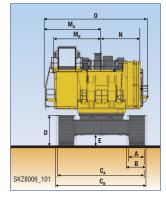
MISCELLANEOUS

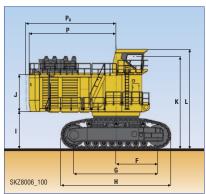
- Fire suppression system
- Camera system acc. ISO5006
- 19 mm thick impact resistant front window
- · Additional lighting
- Additional cab A/C
- Additional cab heater
- · Service crane
- Special painting



DIMENSIONS RASIC MACHINE WITH COUNTERWEIGHT

DASIG WAGNINE WITH GOONTENWEIGHT								
	Α	1500 mm	4'11"	ı	3615 mm	11'10"		
	В	1900 mm	6'3"	J	3560 mm	11'8"		
	\mathbf{C}_{A}	8330 mm	27'4"	K	8950 mm	29'4"		
	CB	8730 mm	28'8"	L	9655 mm	31'8"		
	D	3055 mm	10'0"	M_A	5480 mm	17'12"		
	Е	1095 mm	3'7"	M_B	4550 mm	14'11"		
	F	4050 mm	13'3"	N	3750 mm	12'4"		
	G	8100 mm	26'7"	0	10010 mm	32'10"		
	Н	10735 mm	35'2"	Р	8410 mm	27'7"		
				P_R	8710 mm	28'7"		





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