ENGINE POWER

940 kW / 1260 HP @ 1800 rpm

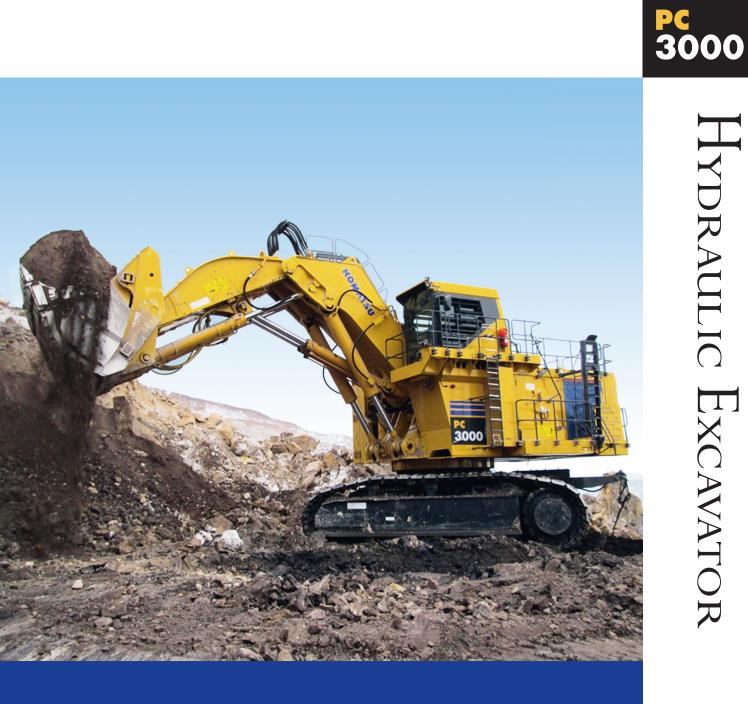
OPERATING WEIGHT 250-261 ton / 551,300-575,500 lb

SHOVEL CAPACITY

16 m3 / 21 yd3 SAE 2:1 heaped **BACKHOE CAPACITY** 15 m3 / 19.5 yd3 SAE 1:1 heaped

KOMATSU

PC3000-6 Loading Shovel PC3000-6 Backhoe





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

Version 1 – Komatsu SSA12V159 (Tier 1) Version 2 – Komatsu SDA12V159E-2 (Tier 2)

- Rated 940 kW / 1260 HP, at 1800 rpm
- Electronic engine management
- Low engine emission levels
- Optional time saving Engine Oil Management System; Centinel, Engine Reserve Oil Supply and Eliminator Oil Filter System

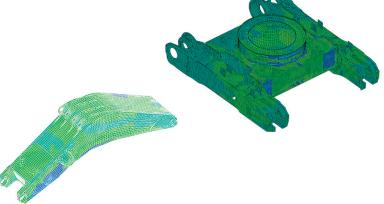
Reliability and Durability

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
- Hardened track link pin bores

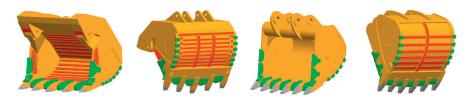


HYDRAULIC EXCAVATOR

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



Advanced Hydraulics

Extended reliability and precise control

- Electronic pump management
- Comprehensive monitored filtration
- Simple open circuit hydraulic system

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 twin wiper covers windshield area for excellent visibility

Easy and Safe Maintenance

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

- Hydraulically operated ground access ladder
- · Generous access to all major service points from machinery house floor level
- · Enclosed, walk-in machinery house with partition wall separating engine 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
- Swing out oil coolers for eased cleaning

PC3000

MATCHES

85 to 165 U.S. ton TRUCKS

OPERATING WEIGHT

Shovel 250-258 ton 551,300-568,900 lb Backhoe 252-261 ton 555,700-575,500 lb

BUCKET CAPACITY

Shovel 16 m³ / 21 yd³ Backhoe 15 m³ / 19.5 yd³

SPECIFICATIONS



DIESEL DRIVE

Optional engine oil management system:

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.

ELECTRIC DRIVE

Type Squirrel-cage induction motor
Power output
Voltage
Amperage (approximate)
Frequency (standard) 50 Hz @ 1500 rpm
Optional frequency
*Other voltages available on request

ECTRIC SYSTEM

System
Batteries (series/parallel) 4 x 12 V
Alternator
Standard working lights
Standard service lights throughout platform

UNDERCARRIAGE

Track adjustment	. Automatic hydraulic type
Number of shoes	46 each side
Number of top rollers	3 each side
Number of bottom rollers	7 each side

	TRAVEL AND	BRAKE	SYSTEMS	
Travel o	ontrol		2 fr	hot

Iravel control	edals
Gradeability Up to	57%
Travel speed (maximum)2,4 km/h / 1.5	i mph
Service brake Hydraulic	brake
Parking brake	e-disc



SWING SYSTEM

Hydraulic motors and drives1
Swing brake, service Hydraulic brake
Swing brake, parking
Swing speed (maximum) 4,6 rpm



HYDRAULIC SYSTEM

The power train consists of one main drive. Diesel engine or electric motor can be supplied. One gearbox drives three identical main pumps which draw hydraulic oil from an unpressurized hydraulic tank. Open circuit hydraulics provide maximum cooling and filtering efficiency.

araanoo promao maximam ooomig ana		
Main hydraulic pumps	3 x 910 ltr/min	3 x 240 U.S. gal
Relief valve setting	310 bar	4,495 psi
Swing flow rate	800 ltr/min	211 U.S. gal
High pressure in line filters		200 microns

one per pump located at the valve blocks

Full flow return line filters 3 x 10 microns and leakage line filter 3 microns all with monitored 200 microns by pass filters. The three-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 system layout, and a reduced number of components.



The high capacity engine radiator is cooled by a mechanically driven fan for superior cooling efficiency and requires little maintenance. The hydraulic system includes large swing-out vertical air-to-oil hydraulic coolers with temperature-regulated hydraulically driven fans.



AUTOMATIC CENTRALISED LUBRICATION

Two hydraulically powered Lincoln single line automatic lubrication systems are provided as standard, complete with time and volume variable controls. The central lube grease system is supplied from a refillable 200 litre 53 gal. barrel. A second, identical system supplies open gear lubricant to the swing ring teeth through a lube pinion. Replenishment of the barrels is through the service arm.



Hydraulic oil tank	2.670 ltr	705 U.S. gal
Hydraulic system		1,160 U.S. gal
Fuel		1,190 U.S. gal
Engine coolant	. 254 ltr	67 U.S. gal
Engine oil	. 190 ltr	50 U.S. gal



OPERATOR CAB

The large and comfortable cab is mounted on 15 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 seat belt. Low-effort hydraulic joystick controls are combined 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. Two windshield wash wipers are synchronised and have two speed and intermittent operation. Two heated rear view mirrors are externally mounted. External metal sun blinds on the cab side windows and internal roller blinds on all windows are standard. There is a left hand sliding window. All windows are tinted parsol green. A walkway is mounted in front of cabin. (Subject to change without notice.) Major cab engineering standards are:

- ISO 3449 Falling Objects Protection Structure
- ISO 6396 Noise in operator's cab is 77 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



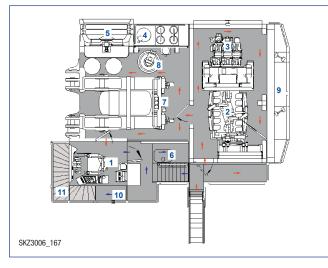
The KOMTRAX Plus monitoring system is designed for Komatsu mining equipment to provide real time and stored information about the operating status of the machine. Fault messages are immediately available to the operator via a digital display and in the event of critical malfunctions the engine is also shut down. The digital storage provides failure summary and analysis, which can be down loaded by laptop computer. This data will assist in predicting or reduction downtime.

OPERATING WEIGHTS (APPROXIMATE)

PC 3000 Backhoe:

Operating weight including 8.600 mm / 28'3" boom, 4.000 mm / 13'1" stick, 15 m³ / 19.5 yd³ backhoe bucket, operator, lubricant, coolant, full fuel tank and standard equipment.

Shoe Width	Operating Weight	Ground Pressure
800 mm	252 t	23.2 N/cm ²
31"	555,700 lb	33.6 psi
1.000 mm	261 t	19.2 N/cm ²
39"	575,500 lb	26.5 psi
1.200 mm	261 t	16.0 N/cm ²
47"	575,500 lb	23.2 psi



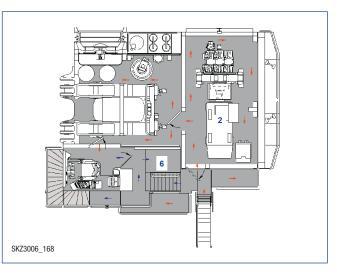
Explanation

- 1 Cab
- 2 Diesel Engine
- 3 Hydraulic Pumps
- 4 Hydraulic Tank
- 5 Hydraulic Cooler
- 6 Engine Radiator
- 7 Control Valves8 Swing Motors
- 8 Swing Motors9 Counterweight
- 10 Secondary Egress
- Coo through Cot Wa
- 11 See-through Cat Walk

PC 3000 Front Shovel:

Operating weight including 6.000 mm / 19'8" boom, 4.300 mm / 14'1" stick, 16 m³ / 21 yd³ shovel bucket, operator, lubricant, coolant, full fuel tank and standard equipment.

Shoe Width	Operating Weight	Ground Pressure
800 mm	250 t	22.9 N/cm ²
31"	551,300 lb	33.2 psi
1.000 mm	258 t	19.0 N/cm²
39"	568,900 lb	27.5 psi
1.200 mm	258 t	15.8 N/cm ²
47"	568,900 lb	22.9 psi



Variation for Electric Drive Version

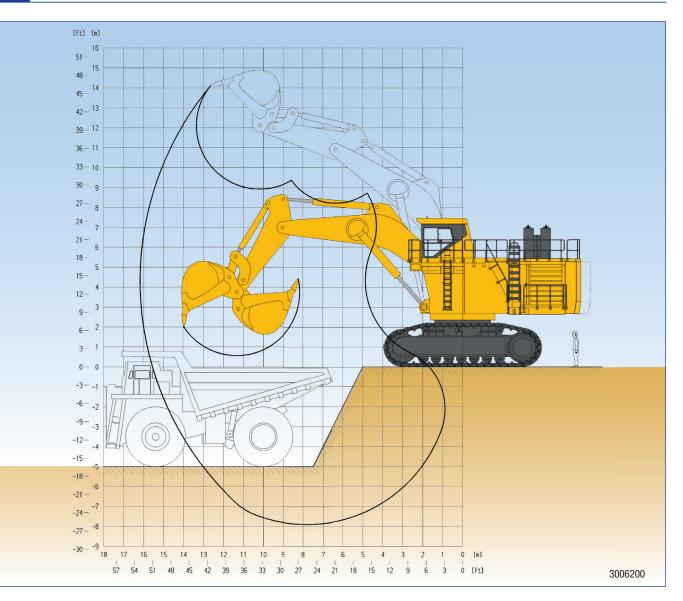
- 2 Electric Motor
- 6 High Voltage Electric Cabinet



PC3000 HYDRAULIC EXCAVATOR

PRODUCTIVITY-FEATURES

BACKHOE ATTACHMENT



Boom length	8.600 mm	28'3"
Stick length	4.000 mm	13'1"
Break-out force (SAE)	850 kN	191,000 lb
Tear-out force (SAE)	800 kN	179,800 lb

Alternative buckets on request

Max. digging height14.100 mm46'3"Max. dumping height9.000 mm29'6"Max. digging depth7.900 mm25'11"Max. digging reach16.200 mm53'2"Max. digging reach at ground level15.600 mm51'2"

Bucket Capacity (Heaped 1:1) SAE		Width		Teeth	Wear Package	Weight		Max. Material Density (Loose)		Recommended Mining
cum	cuyd	mm	foot/inch	qty	*)	t	lb	t/cum	lb/cuyd	Uses
12,0	15.7	3.045	9'12"	5	3	15,2	33,500	2,2	3,700	Heavy Duty
15,0	19.5	3.260	10'8"	5	2	15,6	34,400	1,8	3,000	Standard
16,5	21.5	3.045	9'12"	5	2	16,5	36,400	1,6	2,700	General Purpose

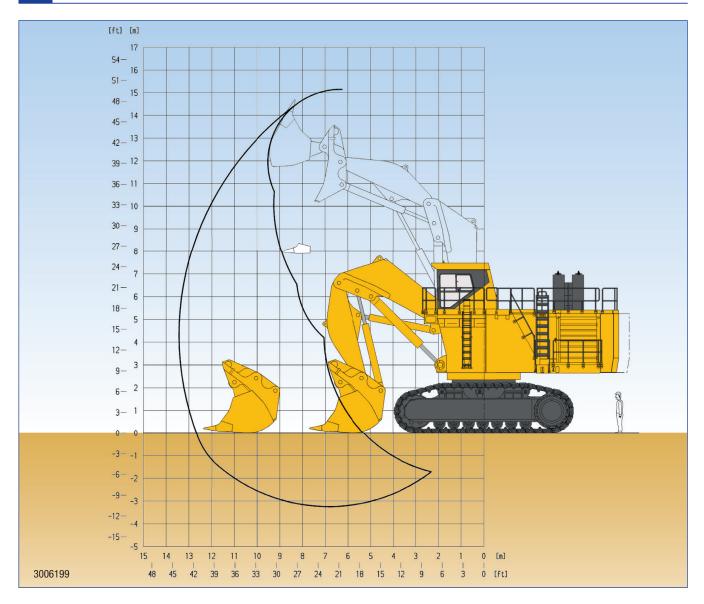
*) WP 1 Light abrasive

WP 2 Medium abrasive

WP 3 Severe abrasive

PC3000

FRONT SHOVEL ATTACHMENT



Boom length	6.000 mm	19'8"
Stick length	4.300 mm	14'1"
Break-out force (SAE)	1.000 kN	225,000 lb
Crowd force (SAE)	1.100 kN	247,500 lb

Max. cutting height	15.100 mm	49'6"
Max. dumping height	10.200 mm	33'6"
Max. digging depth	3.300 mm	10'10"
Max. digging reach	13.300 mm	43'8"
Level crowd at ground level	4.700 mm	15'5"
Bucket opening width	2.330 mm	7'8"

Bucket Capacity (Heaped 1:2) SAE		Width		Teeth	Wear Package	Weight		Max. Material Density (Loose)		Recommended Mining
cum	cuyd	mm	foot/inch	qty	*)	t	lb	t/cum	lb/cuyd	Uses
12,0	15.7	3.430	11'3"	5	3	22,3	49,000	2,4	4,000	Heavy Duty
16,0	21.0	3.630	11'11"	6	2	23,6	52,000	1,8	3,000	Standard

*) WP 1 Light abrasive WP 2 Medium abrasive WP 3 Severe abrasive

Alternative buckets on request

7

HYDRAULIC MINING SHOVEL

FRONT SHOVEL ATTACHMENT

- 6,0 m / 19'8" boom
- 4,3 m / 14'1" stick
- Set of cylinders
- 16 m³ / 21 yd³ (SAE 2:1) shovel bucket incl. standard wear package (WP2) with hammerless GET system

OR

BACKHOE ATTACHMENT

- 8,6 m / 28'3" boom
- 4,0 m / 13'1" stick
- Set of cylinders
- 15 m³ / 19.5 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
- 7 bottom rollers and 3 top rollers each side
- 800 mm / 31" cast steel track shoes
- Hydraulic track adjustment and parking brake

ATTACHMENT/BUCKET

- Boom cylinder sliding guard
- Arm cylinder sliding guard
- Bucket cylinder sliding guard (BH)

UNDERCARRIAGE

- 1.000 mm / 39" track shoes
- 1.200 mm / 47" track shoes

POWER

- Engine oil management package (Centinel, Reserve & Eliminator systems)
- Electric drive various voltages

BASIC MACHINE WITH COUNTERWEIGHT

Α	800 mm	2'7"	J	2635 mm	8'8"
В	1000 mm	3'3"	Κ	6880 mm	22'7"
CA	5600 mm	18'4"	L	7455 mm	24'7"
Св	5800 mm	19"	MA	3740 mm	12'3"
D	2210 mm	7'3"	Мв	3010 mm	9'11"
E	935 mm	3'1"	Ν	3060 mm	10'1"
F	3000 mm	9'10"	0	6800 mm	22'6"
G	6000 mm	19'8"	Ρ	5950 mm	19'6"
Н	7910 mm	25'11"	PR	6410 mm	21'
1	2620 mm	8'7"			

QESS 0037 02



FAX +49 (0) 211/715822

www.komatsu-mining.de

SUPERSTRUCTURE

- Main frame mounted over an externally toothed swing circle carries the drive module
- Version 1 Komatsu SSA12V159 Tier 1 diesel engine
- Version 2 Komatsu SDA12V159E-2 Tier 2 certificated diesel engine
- Oil and fuel reservoirs
- Hydraulic components
- Counterweight

LIGHTING

- 12 Xenon high performance working lights
- Service lights throughout platform

OPERATOR CAB

- Enclosed steel cab mounted on viscous pads
- FOPS structure ISO 3449
- Air-conditioning unit Sütrak
- Full suspension operator seat with belt
- Trainer seat with belt
- Controls ergonomic
- KOMTRAX Plus (Monitoring System)
- Joysticks and controls are hydraulic
- 2 synchronised windshield wash wipers

- AM-FM radio with MP3 ready CD player
- External metal sun blinds on side windows
- Internal roller blinds on all windows
- All windows tinted parsol green
- Walkway in front of cab

LUBRICATION AND SERVICE

- LINCOLN central lubrication for basic machine, attachment, and bucket
- 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, and the evacuation of coolant, hydraulic and engine oils

ACCESSORIES INCLUDED

- · Acoustic travel alarm
- Hydraulically actuated ground access ladder
- Electric air horn
- · Service transfer oil pump
- Sidewalks and stairs are provided with skidresistant plates
- · Hand rails and steps on boom
- Tie off points on boom

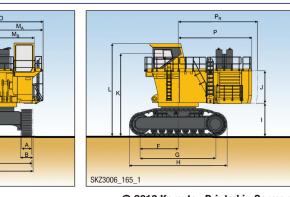
MISCELLANEOUS

- Fire suppression system
- Additional lighting
- Additional cab A/C
- Additional cab heater
- Sound suppression kit
- Special painting

- COLD WEATHER
- Cold weather package down to -40° C (diesel and electro drive)
- Arctic weather package down to -50° C (diesel and electro drive)

SKZ3006 166 1

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



© 2013 Komatsu Printed in Germany

> Materials and specifications are subject to change without notice. Komatsu is a trademark of Komatsu Ltd. Japan.