

The Intersection of Science + Design

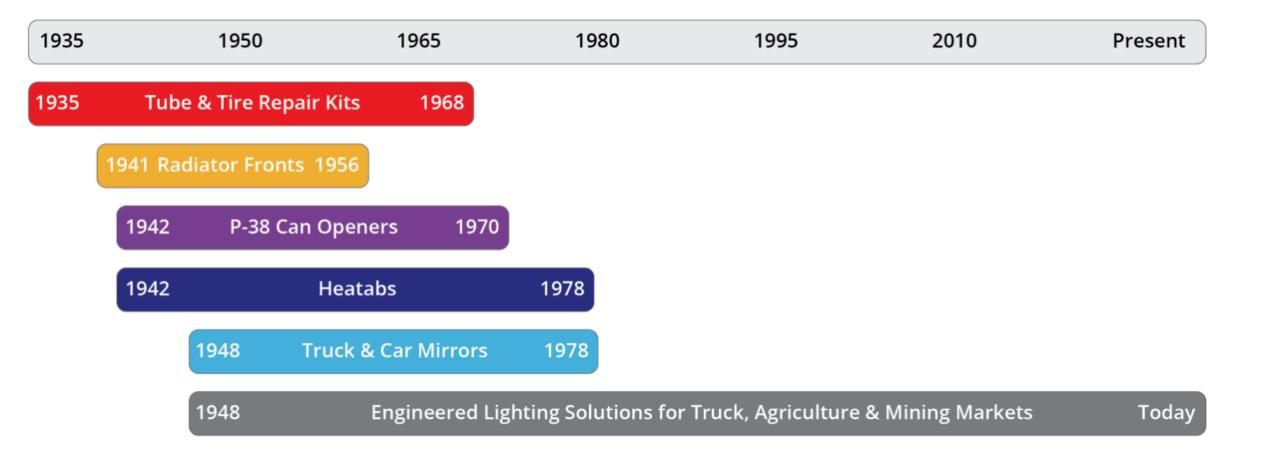


Our History

- > Today, J.W. Speaker Corporation is still family owned and ran business
- > Lead by Tim and Jamie Speaker with their management team
- Development of world leading LED forward lighting for key OEM worldwide
- Growing into the aftermarket with the latest LED performance technology
- > Expanding into different markets around the global as a key brand
- Work closely with our OEM and aftermarket distributor to develop the world first LED headlamps, work lamps and safety products
- > To meet all our customers need and wants with latest technology in LED lighting



Our History







Design Manufacturing Innovative Products for Over 80 years





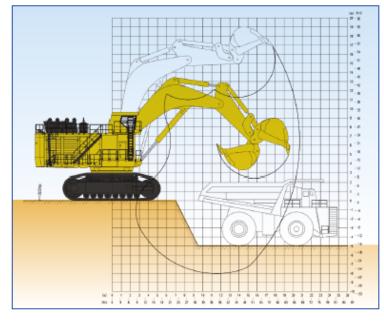
Komatsu PC8000 Shovel LED Scene Illumination

Safety Through Innovative Lighting Product By J.W. Speaker

The Intersection of Science + Design

Komatsu PC 8000

J.W. SPEAKER.

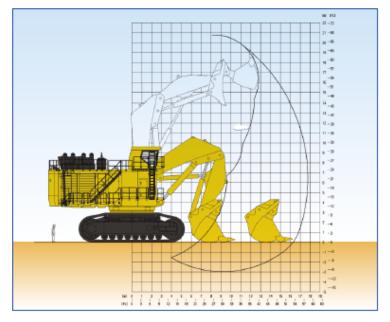


Boom length	11.500 mm	37'9"	Max. digging height	16.900 mm
Stick length	5.500 mm	18'1"	Max. dumping height	11.200 mm
Break-out force (ISO)	2.077 kN	466,850 lb	Max. digging depth	8.000 mm
Tear-out force (ISO)	1.813 kN	407,510 lb	Max. digging reach	20.700 mm
			Max. digging reach at ground level	19.600 mm

Bucket Capacity		w	ldth	Tooth	Wear Package	GET System	Max. Material Density		
(Heaped	1:1) SAE				acc.		(Lo	ose)	
oum	ouyd	mm	foot/inch	qty	abrasiveness		t/oum	lb/cuyd	
42,0	55.0	4.575	15'0"	6	standard	Hensley XS 800 *	1,8	3,000	

mative buckets on request

hor systems on request



oom length	8.150 mm	26'9"	Max. cutting height	2
tick length	5.750 mm	18'9"	Max. dumping height	- 1
reak-out force (ISO)	2.331 kN	523,940 lb	Max. digging depth	
rowd force (ISO)	2.353 KN	528,890 lb	Max. digging reach	- 1
			Level crowd at ground level	

Bucket Capacity Width (Heaped 1:2) SAE		ricth	Tooth	Wear Package aco.	GET System	Max. Material Density (Loose)		
eum	cuyd	mm	foot/inch	qty	abrasiveness		t/cum	lb/ouyd
28,0	37.0	4.575	15'0"	6	heavy	Hensley XS 800 *	2,8	4,700
36,0	47.0	5.375	17'8"	6	heavy	Hensley XS 800 *	2,0	3,400
42,0	55.0	5.375	17'8"	6	standard	Hensley XS 800 *	1,8	3,000

Alternative buckets on request

other systems on request





Front View:

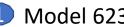
- Model 623 Wide Flood
- Model 623 Medium Flood

This combination will give full illumination for front at the face Option 1 and 2





Left Side View:



1 Model 623 Wide Flood

For illumination on Non Driver Cab Side Option 1





Left Side View:



1 Model 623 Wide Flood

For illumination on Non Driver Cab Side Option 2





Right Side View:

1 Model 623 Wide Flood

For illumination on Cab Side Option 1





Right Side View:

1 Model 623 Wide Flood

For illumination on Cab Side Option 2





Rear View:

1 Model 623 Wide Flood

For illumination on Rear Option 1





Rear View:

1 Model 623 Wide Flood

For illumination on Rear Option 2





Komatsu PC 8000 VR Mapping

- > Use Model 623 making the shovel or Backhoe as main Illumination
- Model 623 IP67 and IP69K 16-60VDC, weight 8.16kg
- > Raw Lumen 40,000 and Effective 20,000 Lumen
- ➤ Colour Temperature 5700K (Kelvin), Daylight at High Noon 5500k
- ➤ Diesel System 24V Only require Model 623
- AC/DC Converter Box 24V 240W 110-277V AC IP69K with plug and play cable



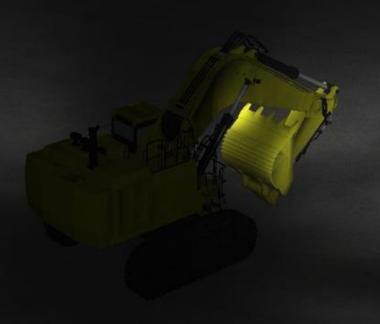
Komatsu PC 8000

Option 1

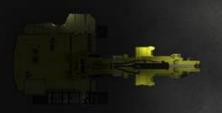
7 Model 623

360 illumination











Komatsu PC8000 24V System

PRODUCT INFORMATION

Description 16-60V LED Work

 Height
 216.41 mm / 8.52 in

 Width
 498.60 mm / 19.63 in

 Depth
 88.90 mm / 3.5 in

 Shape
 Rectangular

Outer Lens Material Glass
Outer Lens Color Clear

Housing Material Die-Cast Aluminum

Housing Color Black

Mounting Type Universal Pedestal Mount

Minimum Operating -40 °C / -40 °F

Temperature

Maximum Operating

Temperature

 Product Weight
 18.00 lbs / 8.16 kgs

 Shipping Weight
 19.63 lbs / 8.9 kgs

Additional Information Wire Harness: SJ000W 6m Harness

65 °C / 149 °F

ELECTRICAL SPECIFICATIONS

Input Voltage24-48V DCOperating Voltage16-60V DC

Transient Spike Protection 150V peak @ 1 HZ-100 Pulses

Current Draw 10A @ 24V DC 5A @ 48V DC

PHOTOMETRIC SPECIFICATIONS

Raw Lumen Output 40,000 Effective Lumen 20,000

Output Nominal LED Color 5700 K Temperature

REGULATORY STANDARDS COMPLIANCE



Buy America Standards IEC IP67

UL Recognized



Eco Friendly IEC IP69K



Model 623

6 Wide Flood 1 Medium Flood for 24V System



Komatsu PC8000 AC System

PRODUCT INFORMATION

Description 100-277V LED Work Light

 Height
 216.33 mm / 8.52 in

 Width
 498.52 mm / 19.63 in

 Depth
 74.80 mm / 2.94 in

 Shape
 Rectangular

Outer Lens Material Glass
Outer Lens Color Clear

Housing Material Die-Cast Aluminum

Housing Color Black
Bezel Color Black

Mounting Type Universal Pedestal Mount

90 °C / 194 °F

Minimum Operating -40 °C / -40 °F

Temperature

Maximum Operating

Temperature

 Product Weight
 18.00 lbs / 8.16 kgs

 Shipping Weight
 19.49 lbs / 8.84 kgs

ELECTRICAL SPECIFICATIONS

Input Voltage 100-277V AC
Operating Voltage 100-277V AC
White Wire Power
Black Wire Ground
Current Draw 4A @ 115V AC

REGULATORY STANDARDS COMPLIANCE



Buy America Standards IEC IP67

Eco Friendly IEC IP69K

PHOTOMETRIC SPECIFICATIONS

Raw Lumen Output 33,600 Effective Lumen 20,500 Output

Nominal LED Color 5000 K Temperature



Model 623

6 Wide Flood 1 Medium Flood for 110-277V System



Komatsu PC 8000

Option 2

13 Model 623

Full clean illumination







36 Meter 25+ Lux 10 Lux

48 Meter 25+ Lux

24 Meter 50 Lux

30 Meter 50 Lux 18 Meter 100 Lux

300 rax

36 Meter 25+ Lux





20 Lux



TOLUX

66 Meter 25 Lux 48 Meter 50 Lux 12 Meter 100 Lux

0 Meter

300 Lux

12 Meter 100 Lux

36 Meter 50 Lux 60 Meter 25 Lux

48 Meter 25+ Lux

thyor

Molut



Komatsu PC8000 24V System

PRODUCT INFORMATION

Description 16-60V LED Work

Height 216 41 mm / 8 52 in Width 498.60 mm / 19.63 in 88.90 mm / 3.5 in Depth Shape Rectangular

Outer Lens Material Glass Outer Lens Color Clear

Housing Material Die-Cast Aluminum

Housing Color Black

Mounting Type Universal Pedestal Mount

Minimum Operating -40 °C / -40 °F

Temperature

Maximum Operating

Temperature

Product Weight 18.00 lbs / 8.16 kgs **Shipping Weight** 19.63 lbs / 8.9 kgs

Additional Information Wire Harness: SJ000W 6m Harness

65 °C / 149 °F

ELECTRICAL SPECIFICATIONS

Input Voltage 24-48V DC **Operating Voltage** 16-60V DC

Transient Spike Protection 150V peak @ 1 HZ-100 Pulses

Current Draw 10A @ 24V DC 5A @ 48V DC

PHOTOMETRIC SPECIFICATIONS

Raw Lumen Output 40,000 **Effective Lumen** 20,000

Output

Nominal LED Color 5700 K

Temperature

REGULATORY STANDARDS COMPLIANCE







Buy America Standards IEC IP67 **UL Recognized**

Eco Friendly IEC IP69K



Model 623

12 Wide Flood 1 Medium Flood for 24V System



Komatsu PC8000 AC System

PRODUCT INFORMATION

Description 100-277V LED Work Light

 Height
 216.33 mm / 8.52 in

 Width
 498.52 mm / 19.63 in

 Depth
 74.80 mm / 2.94 in

 Shape
 Rectangular

Outer Lens Material Glass
Outer Lens Color Clear

Housing Material Die-Cast Aluminum

Housing Color Black
Bezel Color Black

Mounting Type Universal Pedestal Mount

-40 °C / -40 °F

90 °C / 194 °F

Minimum Operating

Temperature

Maximum Operating

Temperature

 Product Weight
 18.00 lbs / 8.16 kgs

 Shipping Weight
 19.49 lbs / 8.84 kgs

ELECTRICAL SPECIFICATIONS

Input Voltage 100-277V AC
Operating Voltage 100-277V AC
White Wire Power
Black Wire Ground
Current Draw 4A @ 115V AC

REGULATORY STANDARDS COMPLIANCE



Buy America Standards IEC IP67 Eco Friendly IEC IP69K

PHOTOMETRIC SPECIFICATIONS

Raw Lumen Output 33,600 Effective Lumen 20,500 Output Nominal LED Color 5000 K

Temperature



Model 623

12 Wide Flood 1 Medium Flood for 110-277V System



Summary

- ➤ Illumination colour temperature of 5700K, Daylight at High Noon is 5500k
- CRI of 90+ reproduce the colours of various objects as "realistically" or "naturally"
- Design for industrial application
- Model 623 LED Scene Lamp 5 year warranty
- Model 6406 Converter 1 year warranty
- Design and manufacture in USA



J.W. SPEAKER.

Komatsu PC8000 Shovel Red Zone

Safety Through Innovative Lighting Product By J.W. Speaker

The Intersection of Science + Design

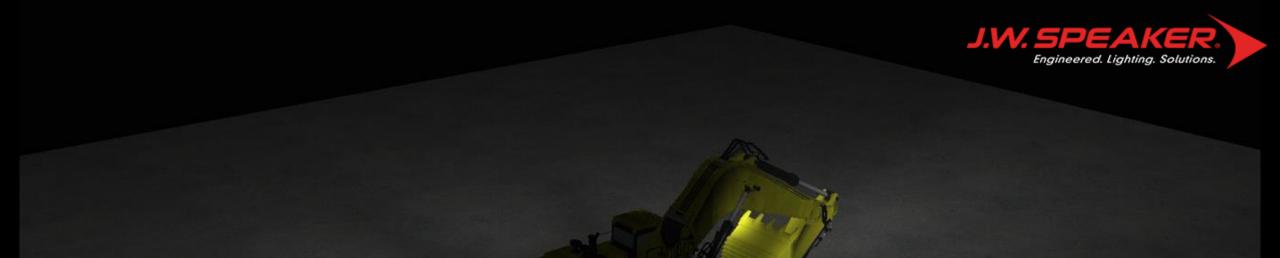


Komatsu PC8000 Red Zone

- > 9 Model 527 LED Red No Go Zone Lamps
- > 7 Mounted at 7.3m high and 35 degrees down
- > 1 Mounted at 8m high 38 degrees down left side front
- ➤ 3 Left, Right and rear hand side fitted around upper deck under the hand rails.



⁹Merers 18 Meters













Komatsu PC 8000 24V System

PRODUCT INFORMATION

Description 12-24V LED Red Zone Light

 Height
 123.70 mm / 4.87 in

 Width
 258.57 mm / 10.18 in

 Depth
 102.11 mm / 4.02 in

Shape Rectangle
Outer Lens Material Glass
Outer Lens Color Clear
Housing Material Xenoy
Housing Color Black

Mounting Hardware Description (x2) M8-1.25 Mounting Bolt
Mounting Type Universal Pedestal Mount

Minimum Operating -40 °C / -40 °F

Temperature

Maximum Operating 65 °C / 149 °F

Temperature

Connector or Wiring Integrated 2-Pin Deutsch Weatherproof

Socket (DT04-2P)

Mating Connector Integrated 2-Pin Deutsch Weatherproof

Plug (DT06-2S)

 Product Weight
 2.60 lbs / 1.18 kgs

 Shipping Weight
 5.70 lbs / 2.59 kgs

Additional Information The dominant wavelength is about

615nm.

ELECTRICAL SPECIFICATIONS

Input Voltage 12-24V DC
Operating Voltage 10-32V DC

Transient Spike Protection 150V peak @ 1 HZ-100 Pulses

Red Wire Positive Black Wire Negative

Current Draw 1.6A @ 12V DC 0.85A @ 24V DC

REGULATORY STANDARDS COMPLIANCE







Buy America Standards IEC IP69K Eco Friendly

Model 527 9 Red Zone

J.W. SPEAKER.

Komatsu PC 8000 AC System

PRODUCT INFORMATION

Description Height

Width Depth

Shape

Housing Material Housing Color

Maximum Operating

Temperature

Connector or Wiring

Product Weight

Shipping Weight

Additional Information

24V 35W AC/DC Converter Box

78 00 mm / 3 07 in 200.00 mm / 7.87 in 236.00 mm / 9.29 in

Rectangular

Xenoy Black

50 °C / 122 °F

Input & Output Wire Harness Ordered

Seperately

1.12 lbs / 0.51 kgs

1.62 lbs / 0.73 kgs

Input: 100-240 V AC 50/60Hz Input

Output: 24 V DC

Output Current Max: 1.5 Amp

UL recognized, Class 2 power supplies

Input Voltage

100-240V AC

REGULATORY STANDARDS COMPLIANCE





ELECTRICAL SPECIFICATIONS

Eco Friendly **UL Recognized** IEC IP69K



AC Cable



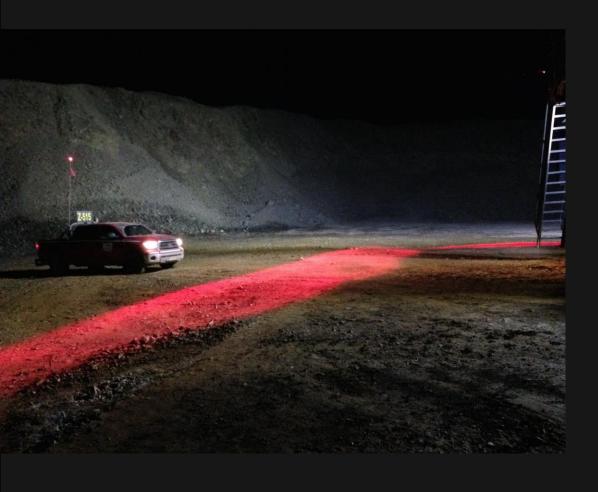
Model 6404



AC Cable

9 AC Cable, 9 DC Cable, 9 AC/DC Converter

P&H 4100 Large Shovel with LED Scene Lighting and Red Zone in Action







Summary

- > Identify danger area around shovel with Red Warning Zone at night
- > Increase night time production with easy identify where to load
- Easy fitment around walkway or other trouble-free location
- Only require 9 Lamps
- Design for industrial application
- Model 527 LED Red Zone 5 year warranty
- ➤ Model 6404 Converter 1 year warranty
- Design and manufacture in USA



Commitment

- ➤ J.W. Speaker are fully commit to the Safety in all mining equipment from the correct illumination and Red Zone area
- ➤ To work direct with the OEM and Mine site to design and develop product to suit the industrial market
- ➤ All product are available worldwide through key distributions who comprehend the Industrial Market to meet all demand



Thank you

N120 W19434 Freistadt Road Germantown, WI 53022 USA

www.jwspeaker.com