# **KOMATSU**

## **PC20 Electric**



Mini-excavator

ELECTRIC

Motor power 11.8 kW

**Operating weight** 2190 kg

Bucket capacity 0.02 - 0.03 m<sup>3</sup>

### PC20 Electric



Bucket capacity

 $0.02 - 0.03 \, \text{m}^3$ 

### Industry leading characteristics

# providing unrivalled customer value

### Powerful electric system

- Electric Komatsu powertrain
- 11.8 kW Komatsu electric motor
- 23.2 kWh Komatsu battery pack
- · Long life battery design
- Fast battery charge (20 to 100%) in 1.8 h with external DC charger (400 V)
- Standard battery charge in 6.2 h with on-board AC charger (230 V)
- High voltage (76.8 V) architecture
- · Conventional tail design for maximum stability

### **Environmentally friendly**

- · Zero local emissions
- Optimal for indoor use or to work outside of standard working hours
- Participate in low-carbon projects
- Support customers' environmental obligations
- Significantly lower noise and vibration levels (vs. PC20R-5)
- CO<sub>2</sub> reduction equivalent of its own weight (vs. PC20R-5 over 1 year)

### **Total versatility**

- On-board 230 V AC charger and off-board 400 V fast charger option
- Proportional control for attachments
- Adjustable attachment oil flow (option)
- Possibility to use market compatible hydraulic attachments



On-board 230 V AC charger

### First-class comfort

- Premium comfort operator seat
- Multi-function monitor with redesigned interface for electric excavators
- Charging status information at a glance
- Machine controls are same as Internal Combustion Engine machines (ICE) and offer familiar working behaviour

### Safety first

- Heavy-duty, protected electric components
- · High-safety LFP lithium battery design
- ROPS (ISO 3471) / OPG (ISO 10262) level 1 canopy
- LED working lamps
- Dual lock system for PPC controls
- · Secondary engine shutdown switch
- · Seat belt caution indicator
- ID key (starter key with registered ID)

### Easy maintenance

- Air cooled maintenance-free electric motor and inverter
- Reduced daily check and periodical maintenance items
- Komatsu E-support programme
- New electric powertrain components with a 5 years warranty

### **Komtrax**

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Includes battery status, charging, power consuption information

### **Specifications**

### **Electric system**

System voltage	76.8 V
Battery	
Туре	Komatsu Lithium-ion battery pack LFP (Lithium Iron Phosphate) technology
Capacity	23.2 kWh
Charger (external) input	400 V (CEE 32 A)
Charger (on-board) input	230 V

#### **Electric motor**

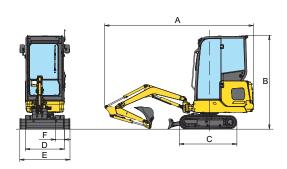
Motor power	11.8 kW		
Motor type	Permanent magnet		

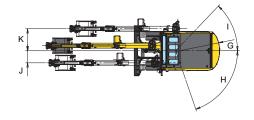
### **Hydraulic system**

Туре	Komatsu CLSS	
Main pumps	1 × variable displacement pump	
	1 × gear pump	
Maximum pump flow	36 I/min	
Bucket digging force (ISO 6015)	9.9 kN	
Arm crowd force (ISO 6015)	6.3 kN	

### **Machine dimensions**

Α	Overall length	mm	3845
В	Overall height	mm	2370
С	Track length	mm	1570
D	Track gauge (min)	mm	990
Е	Track gauge (max)	mm	1280
F	Shoe width	mm	230
G	Tail swing radius	mm	1120
H/I	Boom swing angle	0	71/46
J	Boom offset LH	mm	310
K	Boom offset RH	mm	570





### **Undercarriage**

Track rollers (each side)	3
Shoe width	230 mm

### **Swing system**

Swing speed 10	).5 rpm
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#### **Drives and brakes**

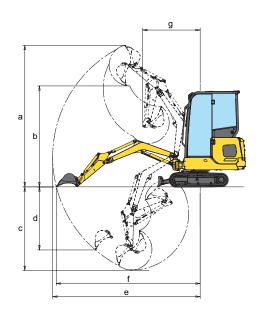
Steering control	2 levers with pedals giving full independent control of each track
Drive method	Hydrostatic
Max. travel speed	2.2 / 4.2 km/h

#### **Environment**

Engine emissions	Zero
Noise levels	
LwA external	90 dB(A) (2000/14/EC Stage II)
LpA operator ear	76 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	$\leq$ 2.5 m/s <sup>2</sup> (uncertainty K = 1.33 m/s <sup>2</sup> )
Body	$\leq$ 0.5 m/s <sup>2</sup> (uncertainty K = 0.18 m/s <sup>2</sup> )

### Working range

	Arm length	mm	965	1215
а	Max. digging height	mm	3570	3800
b	Max. dumping height	mm	2560	2750
С	Max. digging depth	mm	2100	2370
d	Max. vertical wall digging depth	mm	1685	1980
е	Max. digging reach	mm	3830	4100
f	Max. digging reach at ground level	mm	3760	4030
g	Min. swing radius	mm	1415	1515



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