

PC20 Electric



Mini-excavator



Motor power 11.8 kW

Operating weight 2190 kg

Bucket capacity 0.02 - 0.03 m³

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Bucket capacity **0.02 - 0.03 m³**

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)
- CO₂ 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



- 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



On-board 230 V AC charger

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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 pum | | |
| | 1 × gear pump | | |
| Maximum pump flow | 36 l/min | | |
| Bucket digging force (ISO 6015) | 9.9 kN | | |
| Arm crowd force (ISO 6015) | 6.3 kN | | |

Machine dimensions

| А | 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 |
| Κ | Boom offset RH | mm | 570 |
| | | | |





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Undercarriage

| Track rollers (each side) | 3 |
|---------------------------|--------|
| Shoe width | 230 mm |

Swing system

| Swing speed | 10.5 rpm |
|-------------|----------|
| | |

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 ² (uncertainty K = 1.33 m/s ²) |
| Body | \leq 0.5 m/s ² (uncertainty K = 0.18 m/s ²) |
| | |

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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