

# CX80C HiRail Excavator | 2019



# CX80C HiRail Excavator Specifications

## Technical Data

### Base operating weight - approximate

With: shoes (450 mm), boom (3 500 mm), arm (1 690 mm), bucket (210 kg), & counterweight (1 100 kg)

Combined weight (with modifications) 12 802 kg

Maximum axle load (with modifications) 7 620 kg

*Note: based on full fuel, standard equipment and with operator on board.*

### Engine data

Model Isuzu AP-4LE2X

No. of cylinders 4-cylinder in-line

Type Water-cooled, 4-cycle, high pressure common rail system. Turbo-charged w/ air cooled intercooler, DOC system

Bore & stroke 86 x 96 mm

Displacement 2.2 L

Engine certified to: Tier 4 Interim

Engine gradeability

Side-to-side 35°

Fore and aft 35°

Net horsepower SAE J1349 @ 2000 RPM 40 kW

Net max. torque SAE J1349 @ 1800 RPM 193 Nm

### Electrical

Voltage 24 volts

Alternator rating 50 amp

Batteries 2 x 12 volt

Battery reserve capacity 64 Ah / 5 hour

### Drivetrain

Travel control Dual stage relief/ counter balance design

Brakes Mechanical disc

Service brakes SAHR disc – each motor

Two speed travel

Maximum high speed 5.1 kph

Maximum low speed 3.3 kph

Drawbar pull 59.5 kN

Gradeability 70% - 35° slope



**Other specifications**

Swing speed	0 – 10.4 RPM
Swing torque	17 000 Nm
Swing brake	Mechanical disc
Undercarriage	
Length	2 845 mm
Track gauge	1 870 mm
Carrier rollers	1
Track rollers	5
Shoes – triple grouser	39
Shoe width – standard	450 mm
Link pitch	154 mm
Track	
Chain	Grease lubricated/strutted
Guides	Single
Adjustment	Hydraulic

**HiRail Modification specifications**

Maximum self-propelled speed (on rail)	8 km/h
Maximum reverse speed	5 km/h
Maximum emergency towing speed	8 km/h
Maximum height	
Travel mode	3.2 m
Work mode	7.0 m
Breaking deceleration rate	0.92 m/s <sup>2</sup>
Couplers each end	Yes
Coupler type	Tow hitch
Towing capacity (tonnes)	2 740 kg
Narrow gauge rail	
Height limiting system (QR approved)	
Rail guidance status indicators	
Emergency off-tracking system	

**HiRail Attachments**

Sleeper grab	200 kg
Rail broom	140 kg
Tamper	340 kg
Undercutter	740 kg



**Safety devices**

- Lowering attachments in case of engine failure
- Gate lock lever operation is disabled
- Engine emergency stop, anti-theft function
- Safety glass, dual horn
- Inertial reel type seat belt
- Rear view mirrors (cab side and right side)
- Reverse camera (colour CCTV)
- Battery disconnect switch
- Roll-over operator protective structure
- Falling object protective structure (level 2)
- Travel alarm
- Height Limiter

**Load Chart**

Rated lift capacity – for attachment use only

CRAWLER MODE			
Over Front / Rear		Over Side	
Radius	Capacity	Radius	Capacity
3 000 mm	2 850 kg	3 000 mm	2 850 kg
4 500 mm	1 730 kg	4 500 mm	1 560 kg
6 000 mm	1 120 kg	6 000 mm	1 020 kg

- Maximum radius all attachments all slew angles – 6 000 mm

RAIL MODE			
Over Front / Rear		Over Side	
Radius	Capacity	Radius	Capacity
3 000 mm	2 300 kg	3 000 mm	700 kg
4 500 mm	1 500 kg	4 500 mm	470 kg
6 000 mm	1 120 kg	6 000 mm	350 kg

- Maximum radius for undercutter use over front / rear – 6 000 mm
- Do not use undercutter over side (drop to crawlers)
- Maximum radius all other attachments all slew angles – 6 000 mm
- Over side is outside rail heads

