# M323
Railroad Excavator

# Technical Specifications

**Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.**

## Table of Contents

# M323 Railroad Excavator Specifications

## Engine

| | | |
|---|---|---|
| Engine Model | Cat® C4.4 | |
| Engine Power | | |
| ISO 14396 | 134 kW | 180 hp |
| ISO 14396 hp (metric) | 183 hp (metric) | |
| Net Power | | |
| ISO 9249 | 129 kW | 174 hp |
| ISO 9249 hp (metric) | 176 hp (metric) | |
| Bore | 105 mm | 4 in |
| Stroke | 127 mm | 5 in |
| Displacement | 4.4 L | 269 $in^3$ |
| Number of Cylinders – In Line | 4 | |
| Biodiesel Capability | Up to B20(1) | |

- Meets EU Stage V emission standards.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Recommended for use up to 3000 m (9,842 ft) altitude with engine power derate above 3000 m (9,842 ft).
- Rated speed 1,700 rpm
- Advertised power is tested per the specified standard in effect at the time of manufacture.

(1)Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)***
- ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

## Swing Mechanism

| | | |
|---|---|---|
| Swing Speed* | 9 rpm | |
| Maximum Swing Torque | 52 kN·m | 38,400 lbf-ft |
| Maximum Swing Brake Torque | 124 kN·m | 91,500 lbf-ft |

*For CE-marked machine default value may be set lower.

## Weights

| | | |
|---|---|---|
| Operating Weights* | | |
| Minimum | 21700 kg | 47,840 lb |
| Maximum | 24300 kg | 53,572 lb |

* Operating weight includes full fuel tank, operator and pneumatic tires. Weight varies depending on configuration.

## Drive

| | | |
|---|---|---|
| Maximum Travel Speed – Road Mode | 25 km/h | 16 mph |
| Maximum Travel Speed – Rail Mode | | |
| With hydrostatic transmission (9A) | 25 km/h | 16 mph |
| With friction transmission (9C) | 30 km/h | 19 mph |
| Drawbar Pull – Road Mode | 104 kN | 23,380 lbf |
| Drawbar Pull – Rail Mode | | |
| 9A | 45 kN | 10,116 lbf |
| 9C (Nominal) | 45 kN | 10,116 lbf |
| 9C (Heavy Grip Mode) | 100 kN | 22,481 lbf |
| Maximum Gradeability at (16 500 kg/36,376 lb) | 60‰ | |

## Hydraulic System

| | | |
|---|---|---|
| Maximum Pressure – Implement Circuit | | |
| Normal | 35 000 kPa | 5,076 psi |
| Heavy Lift | 37 000 kPa | 5,366 psi |
| Travel Circuit | 35 000 kPa | 5,076 psi |
| Maximum Pressure – Auxiliary Circuit | | |
| High Pressure (Aux1 & Aux2) | 35 000 kPa | 5,076 psi |
| Medium Pressure (Aux3) | 17 000 kPa | 2,466 psi |
| Swing Mechanism | 39 500 kPa | 5,729 psi |
| Maximum Flow | | |
| Implements | 306 L/min | 81 gal/min |
| Travel Circuit | 245 L/min | 65 gal/min |
| Auxiliary Circuit | | |
| High Pressure (Aux1 & Aux2) | 250 L/min | 66 gal/min |
| Medium Pressure (Aux3) | 55 L/min | 15 gal/min |
| Swing Mechanism | 95 L/min | 25 gal/min |
| Cylinders | | |
| Boom cylinder (VA) - Bore | 120 mm | 5 in |
| Boom cylinder (VA) - Stroke | 916 mm | 36 in |
| VAB cylinder - Bore | 140 mm | 6 in |
| VAB cylinder - Stroke | 743 mm | 29 in |
| Stick Cylinder (VA) - Bore | 120 mm | 5 in |
| Stick Cylinder (VA) - Stroke | 1147 mm | 45 in |
| Bucket Cylinder - Bore | 100 mm | 4 in |
| Bucket Cylinder - Stroke | 1055 mm | 42 in |

## Service Refill Capacities

| | | |
|---|---|---|
| Fuel Tank Capacity | 240 L | 63.4 gal |
| Diesel Exhaust Fluid (DEF) Tank | 19 L | 5.0 gal |
| Cooling System | 30 L | 7.9 gal |
| Engine Oil | 14 L | 3.7 gal |
| Hydraulic Tank | 116 L | 30.6 gal |
| Hydraulic System (including tank) | 270 L | 71.3 gal |
| Rear Axle Housing (differential) | 14 L | 3.7 gal |
| Front Steering Axle (differential) | 10.5 L | 2.8 gal |
| Final Drive (each) | 2.5 L | 0.7 gal |
| Powershift Transmission | 2.5 L | 0.7 gal |

## Rail Powertrain (9A)

| | | |
|---|---|---|
| Rail Wheel (UIC profile) | Ø632 mm | 24.9 in |
| Track Width (UIC) | 1435 mm | 4.7 in |
| Park Brake (integrated in motor) | Multi-disc | |
| Service Brake | Disk and Calipers | |
| Tire Ground Clearance on Rail | 177 mm | 0.6 in |

## Rail Powertrain (9C)

| | | |
|---|---|---|
| Rail Wheel (UIC profile) | Ø460 mm | 18.1 in |
| Track Width (UIC) | 1435 mm | 4.7 in |
| Service Brake | Disk and Calipers | |

## Undercarriage

| | | |
|---|---|---|
| Road Ground Clearance (with hydraulic steps) | 437 mm | 1.4 ft |
| Rail Ground Clearance (9A) (with hydraulic steps) | 637 mm | 2.1 ft |
| Rail Ground Clearance (9C) (with hydraulic steps) | 437 mm | 1.4 ft |
| Maximum Steering Angle | 35° | |
| Oscillation Axle Angle | ±8.5° | |
| Minimum Turning Radius - Short radius | | |
| Outside of Tire | 6600 mm | 21.6 ft |
| End of VA Boom | 7500 mm | 24.6 ft |
| Minimum Turning Radius - Long radius | | |
| Outside of Tire | 6600 mm | 21.6 ft |
| End of VA Boom | 7700 mm | 25.3 ft |
| Rail Mode (9A) | | |
| Overall Undercarriage Length | 5538 mm | 18.2 ft |
| Wheel Base (rubber) | 2700 mm | 8.9 ft |
| Wheel Base (rail) | 4414 mm | 14.5 ft |
| Center to the rear | 2523 mm | 8.3 ft |
| Center to the front | 3015 mm | 9.9 ft |
| Rail axle center to rail (vertical) | 316 mm | 1.0 ft |
| Rubber wheel center to rail (vertical) | 720 mm | 2.4 ft |
| Stone shield to rail | 110 mm | 0.4 ft |
| From rubber wheel to rail wheel (center to center vertical) | 404 mm | 1.3 ft |
| Rail Mode (Dual 9A/9C) | | |
| Overall Undercarriage Length | 5705 mm | 18.7 ft |
| Wheel Base (rubber) | 2700 mm | 8.9 ft |
| Wheel Base (rail) | 4619 mm | 15.2 ft |
| Center to the rear | 2557 mm | 8.4 ft |
| Center to the front | 3148 mm | 10.3 ft |
| Rail axle center to rail (vertical) | 316 mm | 1.0 ft |
| Rubber wheel center to rail (vertical) | 520 mm | 1.7 ft |
| Stone shield to rail | 313 mm | 1.0 ft |
| From rubber wheel to rail wheel (center to center vertical) | 204 mm | 0.7 ft |
| Road Mode | | |
| Overall Undercarriage Length | 5380 mm | 17.6 ft |
| Wheel Base (rubber) | 2700 mm | 8.9 ft |
| Wheel Base (rail) | 4680 mm | 15.4 ft |
| Center to the rear | 2588 mm | 8.5 ft |
| Center to the front | 3079 mm | 10.1 ft |
| Rail axle center to road (vertical) | 754 mm | 2.5 ft |
| Rubber wheel center to road (vertical) | 520 mm | 1.7 ft |
| Rail wheel angle with ground (rail axle fully up) | 24° | |

# M323 Railroad Excavator Specifications

## Major Component Weights

| | | |
|---|---|---|
| Booms (including Variable Adjustable [VA] and stick cylinder, pins and standard hydraulic lines) | | |
| 5.2 m (17'1") Variable Adjustable boom | 1150 kg | 2,535 lb |
| Sticks (including cylinder, bucket linkage, pins and standard hydraulic lines) | | |
| 2.0 m (6'7") Stick | 600 kg | 1,323 lb |
| Counterweight | | |
| Standard - Short radius | 5200 kg | 11,464 lb |
| Standard - Long radius | 5800 kg | 12,787 lb |
| Removeable - Short radius | 2100 kg | 4,630 lb |
| Removeable - Long radius | 900 kg | 1,984 lb |
| HD - Long radius | 900 kg | 1,984 lb |
| Quick Couplers | | |
| CW30 Dedicated Quick Coupler | 218 kg | 481 lb |
| CW30S Dedicated Quick Coupler | 204 kg | 450 lb |
| S60 | 176 kg | 388 lb |
| HCS60 | 178 kg | 392 lb |
| HCS65 | 216 kg | 476 lb |

## Sound Performance

| | |
|---|---|
| ISO 6395:2008 external | 100 dB(A) |
| ISO 6396:2008 internal | 69 dB(A) |

External Sound – The labelled spectator sound power level represents the Guaranteed Value per 2000/14/EC amended by 2005/88/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.

Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.

Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

## Tires

| | |
|---|---|
| Optional | Dual 10.00-20 Trelleborg* |
| | Dual 10.00-20 Apollo AWE713* |
| | Single Michelin 18R19.5 XF* |
| | Dual 10.00-20 Apollo AWE713/AWE714 |
| | Dual 10.00-20 Apollo AWE714 |

*9A only

## Vibration Levels

| | | |
|---|---|---|
| Maximum Hand/Arm (ISO 5349-2001) | <2.5 m/s² | <8.2 ft/s² |
| Maximum Whole Body (ISO/TR 25398:2006) | <0.5 m/s² | <1.6 ft/s² |
| Seat Transmissibility Factor (ISO 7096:2000-spectral class EM6) | <0.7 m/s² | |

## Standards

| | |
|---|---|
| Brakes | ISO 3450:2011 |
| Cab Roll Over Protective Systems (ROPS) | ISO 12117-2:2008 |
| Operator Protective Guard (OPG) (Optional) | ISO 10262:1998 Level II |
| Cab / Sound Levels | Meets appropriate standards as listed |

## Air Conditioning System

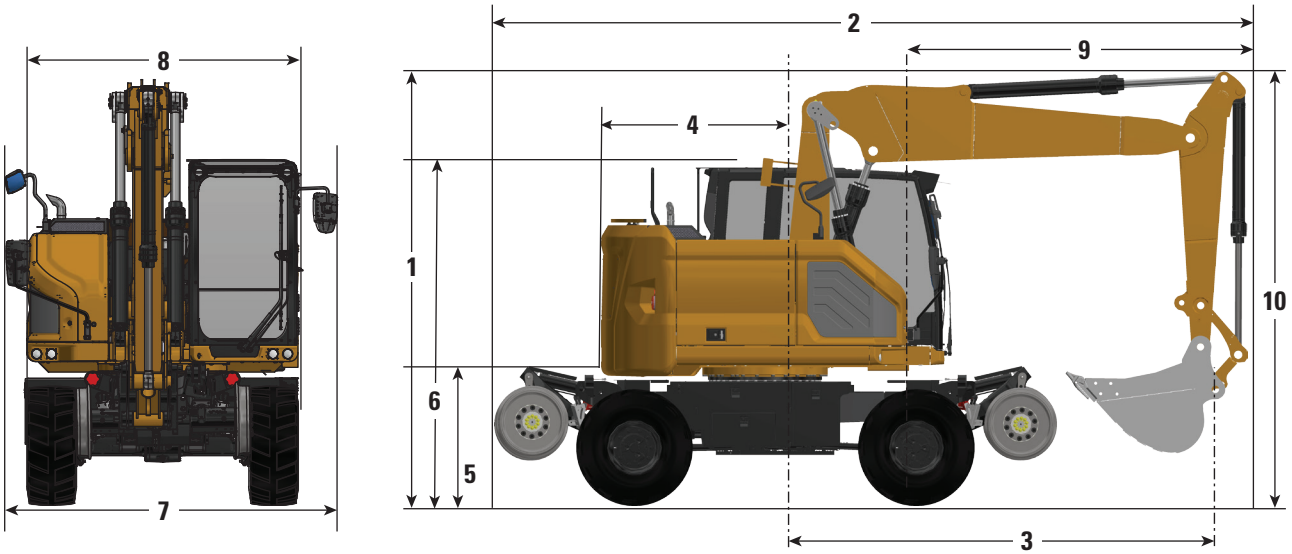
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.

– If equipped with R134a (Global Warming Potential = 1430), the system contains 0.8 kg (1.8 lb) of refrigerant which has a $CO_2$ equivalent of 1.144 metric tonnes (1.261 tons).

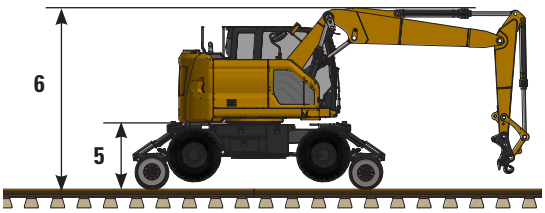
– If equipped with R1234yf (Global Warming Potential = 0.5), the system contains 0.8 kg (1.8 lb) of refrigerant which has a $CO_2$ equivalent of 0.0004 metric tonnes (0.0004 tons).

## Dimensions – Short Radius

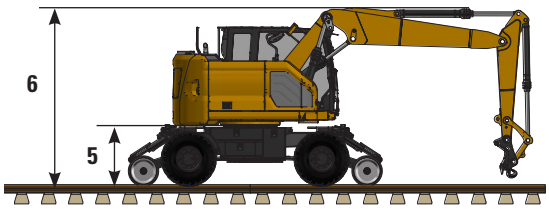
All Dimensions are approximate. Values are with 10.00-20 Dual Pneumatic Tires.




| Boom Type | | Variable Adjustable 5.2 m (17'1") | | | |
|---|---|---|---|---|---|
| **Stick Length** | | **2.0 m (6'7")** | | | |
| **Transmission Options** | | **9A** | | **9C** | |
| **1** | Shipping Height (highest point between boom and cab) | 3209 mm | 10'6" | 3209 mm | 10'6" |
| **2** | Shipping Length | 8921 mm | 29'3" | 8835 mm | 29'0" |
| **3** | Support Point | 4234 mm | 13'11" | 4234 mm | 13'11" |
| **4** | Tail Swing Radius | | | | |
| | Short radius | 1575 mm | 5'2" | 1575 mm | 5'2" |
| **5** | Counterweight Clearance | | | | |
| | Road Mode | 1197 mm | 3'11" | 1197 mm | 3'11" |
| | Rail Mode | 1397 mm | 4'7" | 1197 mm | 3'11" |
| **6** | Cab Height | | | | |
| | Road Mode | 3209 mm | 10'6" | 3209 mm | 10'6" |
| | Rail Mode | 3386 mm | 11'1" | 3209 mm | 10'6" |
| **7** | Overall Machine Width | 2540 mm | 8'4" | 2540 mm | 8'4" |
| **8** | Upperframe Width | 2540 mm | 8'4" | 2540 mm | 8'4" |
| **9** | Roading position | | | | |
| | Steering Wheel to Linkage in Roading Position | 3175 mm | 10'5" | 3175 mm | 10'5" |
| **10** | Height | | | | |
| | Height in Roading Position | 3977 mm | 13'1" | 3977 mm | 13'1" |




9A

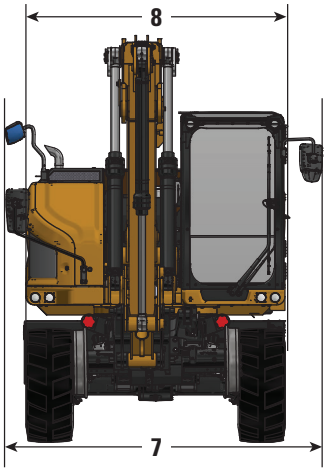


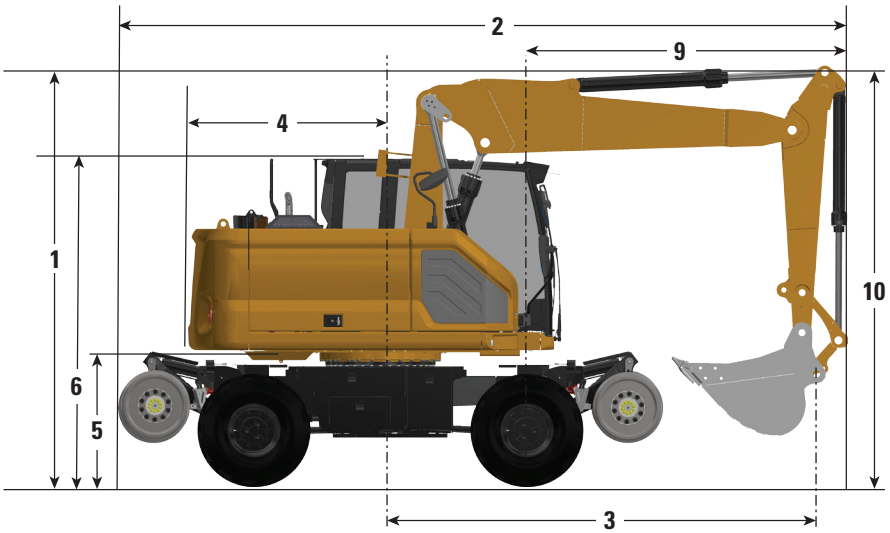

9C

# M323 Railroad Excavator Specifications

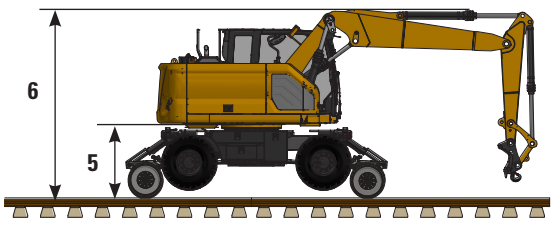
## Dimensions – Long Radius

All Dimensions are approximate. Values are with 10.00-20 Dual Pneumatic Tires.

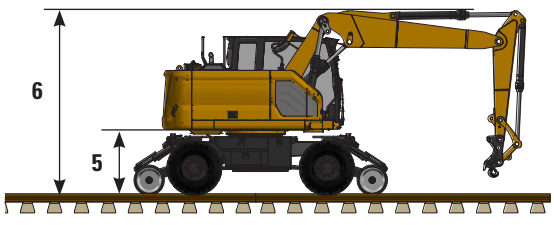



| Boom Type | | Variable Adjustable 5.2 m (17'1") | | | |
|---|---|---|---|---|---|
| **Stick Length** | | **2.0 m (6'7")** | | | |
| **Transmission Options** | | **9A** | | **9C** | |
| **1** | Shipping Height (highest point between boom and cab) | 3209 mm | 10'6" | 3209 mm | 10'6" |
| **2** | Shipping Length | 8921 mm | 29'3" | 8835 mm | 29'0" |
| **3** | Support Point | 4234 mm | 13'11" | 4234 mm | 13'11" |
| **4** | Tail Swing Radius | | | | |
| | Long radius | 2000 mm | 6'7" | 2000 mm | 6'7" |
| **5** | Counterweight Clearance | | | | |
| | Road Mode | 1310 mm | 4'4" | 1310 mm | 4'4" |
| | Rail Mode | 1510 mm | 4'11" | 1310 mm | 4'4" |
| **6** | Cab Height | | | | |
| | Road Mode | 3209 mm | 10'6" | 3209 mm | 10'6" |
| | Rail Mode | 3386 mm | 11'1" | 3209 mm | 10'6" |
| **7** | Overall Machine Width | 2540 mm | 8'4" | 2540 mm | 8'4" |
| **8** | Upperframe Width | 2540 mm | 8'4" | 2540 mm | 8'4" |
| **9** | Roading position | | | | |
| | Steering Wheel to Linkage in Roading Position | 3497 mm | 11'6" | 3497 mm | 11'6" |
| **10** | Height | | | | |
| | Height in Roading Position | 3958 mm | 13'0" | 3958 mm | 13'0" |




9A

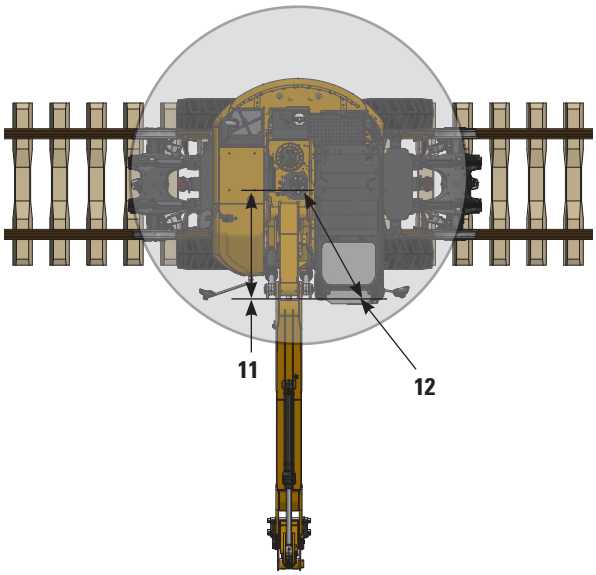



9C

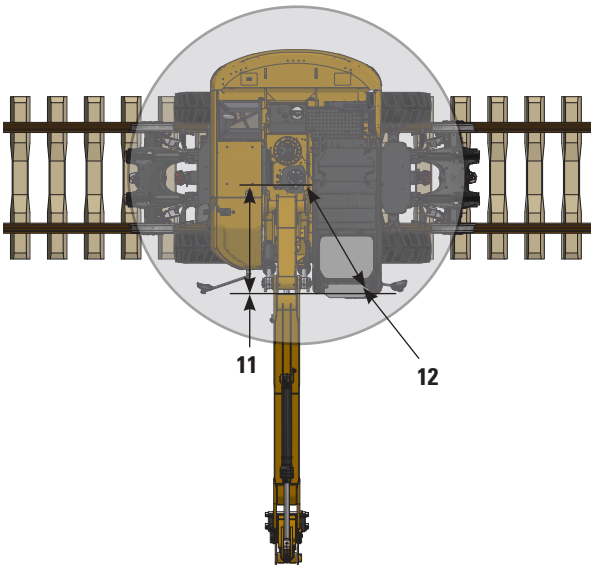
## Work Mode Dimensions – Swing Rotation

All Dimensions are approximate.

SHORT RADIUS



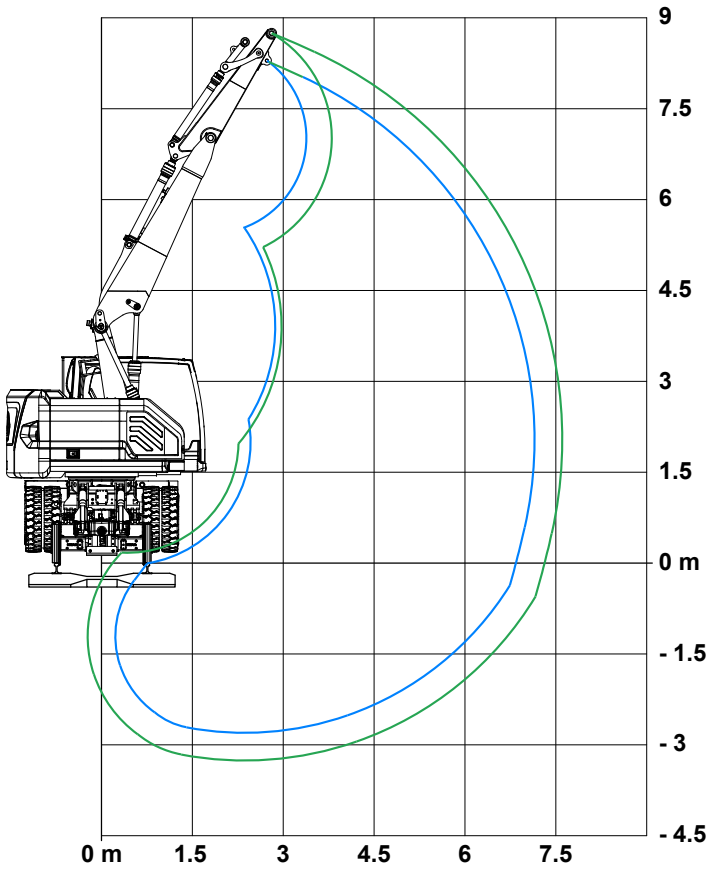

LONG RADIUS




| Boom Type | | Variable Adjustable 5.2 m (17'1") | | | |
|---|---|---|---|---|---|
| Stick Length | | 2.0 m (6'7") | | | |
| Transmission Options | | 9A | | 9C | |
| 11 | Swing Center to Machine Front Corner (left hand side) | 2115 mm | 6'11" | 2115 mm | 6'11" |
| 12 | Swing Center to Machine Front Corner (right hand side) | 1650 mm | 5'5" | 1650 mm | 5'5" |

# M323 Railroad Excavator Specifications

## Working Ranges




| Boom Type | Variable Adjustable 5.2 m (17'1") | | | |
|---|---|---|---|---|
| **Stick Length** | **2.0 m (6'7")** | | | |
| **Transmission Options** | **9A** | | **9C** | |
| Maximum Cutting Height | 8741 mm | 28'8" | 8541 mm | 28'0" |
| Maximum Digging Depth | 3247 mm | 10'8" | 3447 mm | 11'4" |
| Maximum Reach | 7584 mm | 24'11" | 7584 mm | 24'11" |
| Maximum Reach at Ground Line | 7345 mm | 24'1" | 7352 mm | 24'1" |
| Bucket Forces (ISO) | 117 kN | 26,303 lbf | 117 kN | 26,303 lbf |
| Stick Forces (ISO) | 83 kN | 18,659 lbf | 83 kN | 18,659 lbf |

- Range values are with dual pneumatic tires (10.00-20). Range values at the stick end.

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.3 t – 9A Road Mode, Short Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | *7150 | 5800 | | | | | | | 6800* | 6800* | 4950 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 6250 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 6150* | 5750* | 5750* | 3750 | | | | 5550* | 4600 | 3400 | 6210 |
| | ALP | | | | 6250* | 6250* | 6050* | | | | | | | 6150* | 5250 | 3850 | 5780 |
| 4500 mm | TOOL POINT | 10100* | 10100* | 9850* | 6200* | 6200* | 6100* | 5700* | 5700* | 3800 | | | | 5100* | 3800 | 2850 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 7950* | 7950* | 6000* | 5950* | 5000 | 3700 | | | | 5550* | 4200 | 3100 | 6633 |
| 3000 mm | TOOL POINT | 9750* | 9750* | 9650* | 6050* | 6050* | 6000* | 5350* | 5350* | 3900 | 4050 | 3500 | 2600 | 4050 | 3500 | 2600 | 7480 |
| | ALP | | | | 8000** | 7250 | 6000* | 6150* | 4900 | 3700 | | | | 4400 | 3750 | 2800 | 7051 |
| 1500 mm | TOOL POINT | 8800* | 8800* | 8950* | 5900* | 5900* | 5950* | 5900* | 5050 | 3850 | 4000 | 3450 | 2550 | 3950 | 3400 | 2550 | 7578 |
| | ALP | | | | 8000** | 7250 | 6300* | 5600 | 4800 | 3650 | | | | 4250 | 3650 | 2750 | 7116 |
| 0 mm | TOOL POINT | 13150* | 13150* | 10100 | 7400* | 7400* | 5650 | 5650 | 4850 | 3650 | | | | 4200* | 3550 | 2650 | 7358 |
| | ALP | | | | 8000** | 7100 | 5600 | 5450 | 4650 | 3550 | | | | 4500* | 3850 | 2850 | 6839 |
| –1500 mm | TOOL POINT | 15150* | 13850 | 10100 | 9500* | 7350 | 5600 | 5500 | 4700 | 3550 | | | | 4350* | 4200 | 3200 | 6440 |
| | ALP | | | | 8000** | 7050 | 5400 | | | | | | | 4900* | 4800 | 3600 | 5835 |
| –3000 mm | TOOL POINT | | | 10400 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 6.7 t – 9A Road Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 5750 | | | | | | | 6800* | 6800* | 4900 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 6200 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 6150* | 5750* | 5750* | 3800 | | | | 5550* | 4600 | 3450 | 6210 |
| | ALP | | | | 6250* | 6250* | 6000* | | | | | | | 6150* | 5250 | 3850 | 5780 |
| 4500 mm | TOOL POINT | 10100* | 10100* | 9850* | 6200* | 6200* | 6100* | 5700* | 5700* | 3850 | | | | 5100* | 3800 | 2850 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 7950* | 7950* | 6000* | 5950* | 5000 | 3700 | | | | 5550* | 4200 | 3100 | 6633 |
| 3000 mm | TOOL POINT | 9750* | 9750* | 9650* | 6050* | 6050* | 6000* | 5350* | 5350* | 3900 | 4050 | 3500 | 2600 | 4050 | 3450 | 2600 | 7480 |
| | ALP | | | | 8000** | 7250 | 5950* | 6150* | 4900 | 3700 | | | | 4350 | 3750 | 2800 | 7051 |
| 1500 mm | TOOL POINT | 8800* | 8800* | 8950* | 5900* | 5900* | 5950* | 5900* | 5050 | 3850 | 4000 | 3450 | 2600 | 3950 | 3400 | 2550 | 7578 |
| | ALP | | | | 8000** | 7250 | 6350* | 5600 | 4800 | 3650 | | | | 4250 | 3650 | 2750 | 7116 |
| 0 mm | TOOL POINT | 13150* | 13150* | 10150 | 7400* | 7400* | 5700 | 5650 | 4850 | 3700 | | | | 4200* | 3500 | 2650 | 7358 |
| | ALP | | | | 8000** | 7100 | 5600 | 5450 | 4650 | 3550 | | | | 4500* | 3800 | 2900 | 6839 |
| –1500 mm | TOOL POINT | 15150* | 13850 | 10150 | 9500* | 7350 | 5600 | 5500 | 4700 | 3600 | | | | 4350* | 4200 | 3200 | 6440 |
| | ALP | | | | 8000** | 7050 | 5450 | | | | | | | 4900* | 4800 | 3650 | 5835 |
| –3000 mm | TOOL POINT | | | 10350 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# M323 Railroad Excavator Specifications

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.6 t – 9A Road Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.


Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 6950* | | | | | | | 6800* | 6800* | 5250 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 7700* | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 6100* | 5750* | 5750* | 4050 | | | | 5550* | 5550* | 3700 | 6210 |
| | ALP | | | | 6250* | 6250* | 6000* | | | | | | | 6150* | 6150* | 4150 | 5780 |
| 4500 mm | TOOL POINT | 10100* | 10100* | 9750* | 6200* | 6200* | 6050* | 5700* | 5700* | 4100 | | | | 5100* | 4100 | 3100 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 7950* | 7950* | 6000* | 5950* | 5950* | 4000 | | | | 5550* | 4500 | 3400 | 6633 |
| 3000 mm | TOOL POINT | 9750* | 9750* | 9600* | 6050* | 6050* | 6000* | 5350* | 5350* | 4200 | 4350 | 3750 | 2850 | 4350 | 3750 | 2850 | 7480 |
| | ALP | | | | 8000** | 8000** | 5950* | 6150* | 5250 | 4000 | | | | 4700 | 4050 | 3050 | 7051 |
| 1500 mm | TOOL POINT | 8800* | 8800* | 9000* | 5900* | 5900* | 6000* | 5900* | 5900* | 4150 | 4850* | 3700 | 2850 | 4700* | 3650 | 2800 | 7578 |
| | ALP | | | | 8000** | 8000** | 6350* | 6550* | 5150 | 3950 | | | | 5050* | 3950 | 3000 | 7116 |
| 0 mm | TOOL POINT | 13150* | 13150* | 10900 | 7400* | 7400* | 6100 | 6750* | 5200 | 4000 | | | | 4200* | 3800 | 2900 | 7358 |
| | ALP | | | | 8000** | 7650 | 6050 | 5850 | 5000 | 3850 | | | | 4500* | 4100 | 3150 | 6839 |
| –1500 mm | TOOL POINT | 15150* | 15150* | 11000 | 9500* | 7850 | 6050 | 5900 | 5050 | 3900 | | | | 4350* | 4550 | 3500 | 6440 |
| | ALP | | | | 8000** | 7550 | 5900 | | | | | | | 4900* | 5150 | 4000 | 5835 |
| –3000 mm | TOOL POINT | | | 11250 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.3 t – 9C Road Mode, Short Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.


Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7200* | 7200* | 5900 | | | | | | | 7100* | 7100* | 5400 | 4733 |
| | ALP | | | | | | | | | | | | | 8000** | 8000** | 7100 | 3931 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 6300* | 6050* | 4700 | 3750 | | | | 5650* | 4400 | 3500 | 6210 |
| | ALP | | | | 6200* | 6200* | 6200* | | | | | | | 6250* | 5050 | 4050 | 5641 |
| 4500 mm | TOOL POINT | 10750* | 10750* | 10150* | 7100* | 7100* | 6200* | 5300* | 5300* | 3850 | | | | 4200 | 3600 | 2850 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 7500* | 7500* | 6150* | 6000* | 4650 | 3700 | | | | 4650 | 3950 | 3150 | 6557 |
| 3000 mm | TOOL POINT | 10350* | 10350* | 9800* | 8750* | 6750 | 6100* | 6050* | 4600 | 3850 | 3750 | 3200 | 2550 | 3800 | 3200 | 2550 | 7480 |
| | ALP | | | | 8000** | 6700 | 6050* | 6100* | 4550 | 3650 | | | | 4100 | 3500 | 2750 | 7021 |
| 1500 mm | TOOL POINT | 8350* | 8350* | 9200* | 7800 | 6450 | 5800* | 5300 | 4500 | 3800 | 3750 | 3150 | 2500 | 3650 | 3100 | 2450 | 7578 |
| | ALP | | | | 8000** | 6700 | 6100* | 5250 | 4450 | 3600 | | | | 3950 | 3350 | 2650 | 7126 |
| 0 mm | TOOL POINT | 14350* | 12800 | 9900 | 7650 | 6350 | 5550 | 5150 | 4350 | 3600 | | | | 3800 | 3200 | 2550 | 7358 |
| | ALP | | | | 7950 | 6600 | 5450 | 5100 | 4300 | 3450 | | | | 4100 | 3500 | 2750 | 6891 |
| –1500 mm | TOOL POINT | 14950* | 12550 | 9650 | 7800 | 6450 | 5400 | 5150 | 4350 | 3450 | | | | 4450 | 3750 | 2950 | 7070 |
| | ALP | | | | 7900 | 6550 | 5250 | 5000 | 4200 | 3300 | | | | 5000 | 4200 | 3300 | 6025 |
| –3000 mm | TOOL POINT | | | 9700 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

## Lift Capacities – Variable Adjustable Boom – Counterweight: 6.7 t – 9C Road Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

 Load at maximum reach (stick nose/bucket pin/ALP)  Load over front  Load over rear  Load over side  Load point height  Road or Rail oscillating axle locked  Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7200* | 7200* | 5400 | | | | | | | 7100* | 7100* | 5000 | 4733 |
| | ALP | | | | | | | | | | | | | 8000** | 8000** | 7150 | 3931 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 6100* | 6050* | 4700 | 3500 | | | | 5650* | 4400 | 3350 | 6210 |
| | ALP | | | | 6200* | 6200* | 6200* | | | | | | | 6250* | 5050 | 4050 | 5641 |
| 4500 mm | TOOL POINT | 10750* | 10750* | 9800* | 7100* | 7100* | 6050* | 5300* | 5300* | 3600 | | | | 4200 | 3600 | 2700 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 7500* | 7500* | 6150* | 6000* | 4650 | 3700 | | | | 4600 | 3950 | 3150 | 6557 |
| 3000 mm | TOOL POINT | 10350* | 10350* | 9650* | 8750* | 6750 | 6000* | 6050* | 4600 | 3650 | 3750 | 3200 | 2400 | 3750 | 3200 | 2450 | 7480 |
| | ALP | | | | 8000** | 6700 | 6050* | 6100* | 4550 | 3650 | | | | 4100 | 3500 | 2800 | 7021 |
| 1500 mm | TOOL POINT | 8350* | 8350* | 9400* | 7800 | 6450 | 5900* | 5300 | 4500 | 3650 | 3700 | 3150 | 2400 | 3650 | 3100 | 2350 | 7578 |
| | ALP | | | | 8000** | 6700 | 6100* | 5250 | 4450 | 3600 | | | | 3950 | 3350 | 2650 | 7126 |
| 0 mm | TOOL POINT | 14350* | 12750 | 9600 | 7600 | 6350 | 5350 | 5100 | 4350 | 3500 | | | | 3800 | 3200 | 2450 | 7358 |
| | ALP | | | | 7900 | 6600 | 5500 | 5100 | 4300 | 3450 | | | | 4100 | 3500 | 2750 | 6891 |
| –1500 mm | TOOL POINT | 14950* | 12550 | 9600 | 7800 | 6450 | 5300 | 5150 | 4350 | 3350 | | | | 4400 | 3750 | 2900 | 7070 |
| | ALP | | | | 7850 | 6500 | 5250 | 5000 | 4250 | 3350 | | | | 5000 | 4250 | 3350 | 6025 |
| –3000 mm | TOOL POINT | | | 9750 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.6 t – 9C Road Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

 Load at maximum reach (stick nose/bucket pin/ALP)  Load over front  Load over rear  Load over side  Load point height  Road or Rail oscillating axle locked  Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7200* | 7200* | 7200* | | | | | | | 7100* | 7100* | 5850 | 4733 |
| | ALP | | | | | | | | | | | | | 8000** | 8000** | 8000** | 3931 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 6300* | 6050* | 5050 | 4100 | | | | 5650* | 4750 | 3850 | 6210 |
| | ALP | | | | 6200* | 6200* | 6200* | | | | | | | 6250* | 6250* | 4400 | 5641 |
| 4500 mm | TOOL POINT | 10750* | 10750* | 10150* | 7100* | 7100* | 6200* | 5300* | 5300* | 4150 | | | | 5150* | 3850 | 3150 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 7500* | 7500* | 6150* | 6000* | 5000 | 4000 | | | | 5600* | 4250 | 3450 | 6557 |
| 3000 mm | TOOL POINT | 10350* | 10350* | 9800* | 8750* | 7250 | 6100* | 6050* | 4950 | 4200 | 4050 | 3500 | 2800 | 4100 | 3500 | 2800 | 7480 |
| | ALP | | | | 8000** | 7200 | 6050* | 6100* | 4900 | 3950 | | | | 4400 | 3800 | 3050 | 7021 |
| 1500 mm | TOOL POINT | 8350* | 8350* | 9200* | 9100* | 7000 | 5800* | 6400* | 4850 | 4100 | 4050 | 3450 | 2750 | 3950 | 3350 | 2700 | 7578 |
| | ALP | | | | 8000** | 7250 | 6100* | 6500* | 4800 | 3950 | | | | 4250 | 3650 | 2900 | 7126 |
| 0 mm | TOOL POINT | 14350* | 14350* | 10700 | 8250 | 6850 | 6000 | 5500 | 4700 | 3900 | | | | 4300* | 3500 | 2800 | 7358 |
| | ALP | | | | 8000** | 7100 | 5950 | 5500 | 4650 | 3800 | | | | 4350* | 3800 | 3000 | 6891 |
| –1500 mm | TOOL POINT | 14950* | 13500 | 10500 | 8400 | 7000 | 5850 | 5550 | 4700 | 3750 | | | | 4250* | 4050 | 3250 | 7070 |
| | ALP | | | | 8000** | 7050 | 5700 | 4700* | 4600 | 3650 | | | | 4700* | 4600 | 3650 | 6025 |
| –3000 mm | TOOL POINT | | | 10550 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# M323 Railroad Excavator Specifications

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.3 t – 9A Rail Mode, Short Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 4500 | | | | | | | 7100* | 7100* | 4100 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 4800 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 4600 | 5750* | 5750* | 2900 | | | | 5650* | 5650* | 2650 | 6210 |
| | ALP | | | | 6200* | 6200* | 4500 | | | | | | | 6150* | 6150* | 2950 | 5780 |
| 4500 mm | TOOL POINT | 10200* | 10200* | 7700 | 6200* | 6200* | 4500 | 5700* | 5700* | 2900 | | | | 5150* | 5150* | 2150 | 7049 |
| | ALP | 8000** | 8000** | 7650 | 6100* | 6100* | 4450 | 6050* | 6050* | 2800 | | | | 5550* | 5550* | 2300 | 6633 |
| 3000 mm | TOOL POINT | 10550* | 10550* | 7350 | 6050* | 6050* | 4400 | 5350* | 5350* | 2950 | 5050* | 5050* | 1900 | 5050* | 5050* | 1900 | 7480 |
| | ALP | | | | 6050* | 6050* | 4350 | 6150* | 6150* | 2750 | | | | 5450* | 5450* | 2050 | 7051 |
| 1500 mm | TOOL POINT | 11850* | 11850* | 7100 | 5900* | 5900* | 4350 | 5700* | 5700* | 2900 | 4850* | 4850* | 1850 | 4750* | 4750* | 1850 | 7578 |
| | ALP | | | | 6250* | 6250* | 4250 | 6450* | 6450* | 2700 | | | | 5050* | 5050* | 1950 | 7116 |
| 0 mm | TOOL POINT | 14150* | 14150* | 6800 | 7400* | 7400* | 4100 | 6750* | 6750* | 2650 | | | | 4300* | 4300* | 1900 | 7358 |
| | ALP | | | | 8000* | 8000* | 4050 | 6600* | 6600* | 2550 | | | | 4500* | 4500* | 2050 | 6839 |
| –1500 mm | TOOL POINT | 15050* | 15050* | 6600 | 8200* | 8200* | 3600 | 5750* | 5750* | 2550 | | | | 4350* | 4350* | 2250 | 6440 |
| | ALP | | | | 8000** | 8000** | 3850 | | | | | | | 4900* | 4900* | 2550 | 5835 |
| –3000 mm | TOOL POINT | | | 6850 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 6.7 t – 9A Rail Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 4600 | | | | | | | 7100* | 7100* | 4150 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 4900 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 4650 | 5750* | 5750* | 2900 | | | | 5650* | 5650* | 2700 | 6210 |
| | ALP | | | | 6200* | 6200* | 4600 | | | | | | | 6150* | 6150* | 3000 | 5780 |
| 4500 mm | TOOL POINT | 10200* | 10200* | 7800 | 6200* | 6200* | 4550 | 5700* | 5700* | 2950 | | | | 5150* | 5150* | 2200 | 7049 |
| | ALP | 8000** | 8000** | 7750 | 6100* | 6100* | 4500 | 6050* | 6050* | 2850 | | | | 5550* | 5550* | 2350 | 6633 |
| 3000 mm | TOOL POINT | 10550* | 10550* | 7450 | 6050* | 6050* | 4450 | 5350* | 5350* | 3000 | 5050* | 5050* | 1900 | 5050* | 5050* | 1950 | 7480 |
| | ALP | | | | 6050* | 6050* | 4400 | 6150* | 6150* | 2750 | | | | 5450* | 5450* | 2100 | 7051 |
| 1500 mm | TOOL POINT | 11850* | 11850* | 7200 | 5900* | 5900* | 4400 | 5700* | 5700* | 2950 | 4850* | 4850* | 1900 | 4750* | 4750* | 1850 | 7578 |
| | ALP | | | | 6250* | 6250* | 4300 | 6450* | 6450* | 2750 | | | | 5050* | 5050* | 2000 | 7116 |
| 0 mm | TOOL POINT | 14150* | 14150* | 6900 | 7400* | 7400* | 4150 | 6750* | 6750* | 2700 | | | | 4300* | 4300* | 1900 | 7358 |
| | ALP | | | | 8000* | 8000* | 4100 | 6600* | 6600* | 2600 | | | | 4500* | 4500* | 2100 | 6839 |
| –1500 mm | TOOL POINT | 15050* | 15050* | 6750 | 8200* | 8200* | 3650 | 5750* | 5750* | 2600 | | | | 4350* | 4350* | 2300 | 6440 |
| | ALP | | | | 8000** | 8000** | 3900 | | | | | | | 4900* | 4900* | 2600 | 5835 |
| –3000 mm | TOOL POINT | | | 6900 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.6 t – 9A Rail Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

 Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 4950 | | | | | | | 7100* | 7100* | 4500 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 5250 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 5000 | 5750* | 5750* | 3150 | | | | 5650* | 5650* | 2950 | 6210 |
| | ALP | | | | 6200* | 6200* | 4950 | | | | | | | 6150* | 6150* | 3250 | 5780 |
| 4500 mm | TOOL POINT | 10200* | 10200* | 8400 | 6200* | 6200* | 4900 | 5700* | 5700* | 3200 | | | | 5150* | 5150* | 2400 | 7049 |
| | ALP | 8000** | 8000** | 8000** | 6100* | 6100* | 4850 | 6050* | 6050* | 3100 | | | | 5550* | 5550* | 2550 | 6633 |
| 3000 mm | TOOL POINT | 10550* | 10550* | 8050 | 6050* | 6050* | 4800 | 5350* | 5350* | 3250 | 5050* | 5050* | 2150 | 5050* | 5050* | 2150 | 7480 |
| | ALP | | | | 6050* | 6050* | 4800 | 6150* | 6150* | 3050 | | | | 5450* | 5450* | 2300 | 7051 |
| 1500 mm | TOOL POINT | 11850* | 11850* | 7800 | 5900* | 5900* | 4750 | 5700* | 5700* | 3200 | 4850* | 4850* | 2100 | 4750* | 4750* | 2050 | 7578 |
| | ALP | | | | 6250* | 6250* | 4650 | 6450* | 6450* | 3000 | | | | 5050* | 5050* | 2200 | 7116 |
| 0 mm | TOOL POINT | 14150* | 14150* | 7500 | 7400* | 7400* | 4550 | 6750* | 6750* | 3000 | | | | 4300* | 4300* | 2100 | 7358 |
| | ALP | | | | 8000* | 8000* | 4450 | 6600* | 6600* | 2850 | | | | 4500* | 4500* | 2300 | 6839 |
| –1500 mm | TOOL POINT | 15050* | 15050* | 7300 | 8200* | 8200* | 4000 | 5750* | 5750* | 2850 | | | | 4350* | 4350* | 2550 | 6440 |
| | ALP | | | | 8000** | 8000** | 4250 | | | | | | | 4900* | 4900* | 2850 | 5835 |
| –3000 mm | TOOL POINT | | | 7500 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.3 t – 9A Rail Mode, Short Radius, 2.0 m (6'7") Stick, 1M Gauge Kit

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

 Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 3200 | | | | | | | 7100* | 7100* | 2850 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 3350 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 3300 | 5750* | 5750* | 2000 | | | | 5650* | 5650* | 1850 | 6210 |
| | ALP | | | | 6200* | 6200* | 3200 | | | | | | | 6150* | 6150* | 2000 | 5780 |
| 4500 mm | TOOL POINT | 10200* | 10200* | 5300 | 6200* | 6200* | 3200 | 5700* | 5700* | 2000 | | | | 5150* | 5150* | 1450 | 7049 |
| | ALP | 8000** | 8000** | 5250 | 6100* | 6100* | 3150 | 6050* | 6050* | 1950 | | | | 5550* | 5550* | 1550 | 6633 |
| 3000 mm | TOOL POINT | 10550* | 10550* | 5000 | 6050* | 6050* | 3100 | 5350* | 5350* | 2050 | 5050* | 5050* | 1250 | 5050* | 5050* | 1250 | 7480 |
| | ALP | | | | 6050* | 6050* | 3100 | 6150* | 6150* | 1850 | | | | 5450* | 5450* | 1350 | 7051 |
| 1500 mm | TOOL POINT | 11850* | 11850* | 4800 | 5900* | 5900* | 3100 | 5700* | 5700* | 2000 | 4850* | 4850* | 1200 | 4750* | 4750* | 1200 | 7578 |
| | ALP | | | | 6250* | 6250* | 3000 | 6450* | 6450* | 1850 | | | | 5050* | 5050* | 1300 | 7116 |
| 0 mm | TOOL POINT | 14150* | 14150* | 4600 | 7400* | 7400* | 2850 | 6750* | 6750* | 1850 | | | | 4300* | 4300* | 1200 | 7358 |
| | ALP | | | | 8000* | 8000* | 2800 | 6600* | 6600* | 1700 | | | | 4500* | 4500* | 1350 | 6839 |
| –1500 mm | TOOL POINT | 15050* | 15050* | 4700 | 8200* | 8200* | 2400 | 5750* | 5750* | 1700 | | | | 4350* | 4350* | 1500 | 6440 |
| | ALP | | | | 8000** | 8000** | 2650 | | | | | | | 4900* | 4900* | 1700 | 5835 |
| –3000 mm | TOOL POINT | | | 4650 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# M323 Railroad Excavator Specifications

## Lift Capacities – Variable Adjustable Boom – Counterweight: 6.7 t – 9A Rail Mode, Long Radius, 2.0 m (6'7") Stick, 1M Gauge Kit

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.


Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 3250 | | | | | | | 7100* | 7100* | 2950 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 3450 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 3350 | 5750* | 5750* | 2050 | | | | 5650* | 5650* | 1900 | 6210 |
| | ALP | | | | 6200* | 6200* | 3300 | | | | | | | 6150* | 6150* | 2100 | 5780 |
| 4500 mm | TOOL POINT | 10200* | 10200* | 5400 | 6200* | 6200* | 3250 | 5700* | 5700* | 2100 | | | | 5150* | 5150* | 1500 | 7049 |
| | ALP | 8000** | 8000** | 5350 | 6100* | 6100* | 3200 | 6050* | 6050* | 2000 | | | | 5550* | 5550* | 1600 | 6633 |
| 3000 mm | TOOL POINT | 10550* | 10550* | 5150 | 6050* | 6050* | 3200 | 5350* | 5350* | 2150 | 5050* | 5050* | 1300 | 5050* | 5050* | 1300 | 7480 |
| | ALP | | | | 6050* | 6050* | 3150 | 6150* | 6150* | 1950 | | | | 5450* | 5450* | 1400 | 7051 |
| 1500 mm | TOOL POINT | 11850* | 11850* | 4950 | 5900* | 5900* | 3150 | 5700* | 5700* | 2100 | 4850* | 4850* | 1250 | 4750* | 4750* | 1250 | 7578 |
| | ALP | | | | 6250* | 6250* | 3050 | 6450* | 6450* | 1900 | | | | 5050* | 5050* | 1300 | 7116 |
| 0 mm | TOOL POINT | 14150* | 14150* | 4700 | 7400* | 7400* | 2950 | 6750* | 6750* | 1900 | | | | 4300* | 4300* | 1250 | 7358 |
| | ALP | | | | 8000* | 8000* | 2900 | 6600* | 6600* | 1800 | | | | 4500* | 4500* | 1400 | 6839 |
| –1500 mm | TOOL POINT | 15050* | 15050* | 4600 | 8200* | 8200* | 2450 | 5750* | 5750* | 1750 | | | | 4350* | 4350* | 1550 | 6440 |
| | ALP | | | | 8000** | 8000** | 2700 | | | | | | | 4900* | 4900* | 1750 | 5835 |
| –3000 mm | TOOL POINT | | | 4800 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.6 t – 9A Rail Mode, Long Radius, 2.0 m (6'7") Stick, 1M Gauge Kit

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.


Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7150* | 7150* | 3550 | | | | | | | 7100* | 7100* | 3200 | 4733 |
| | ALP | | | | | | | | | | | | | 7900* | 7900* | 3750 | 4206 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 3650 | 5750* | 5750* | 2250 | | | | 5650* | 5650* | 2100 | 6210 |
| | ALP | | | | 6200* | 6200* | 3550 | | | | | | | 6150* | 6150* | 2300 | 5780 |
| 4500 mm | TOOL POINT | 10200* | 10200* | 5900 | 6200* | 6200* | 3550 | 5700* | 5700* | 2300 | | | | 5150* | 5150* | 1650 | 7049 |
| | ALP | 8000** | 8000** | 5850 | 6100* | 6100* | 3500 | 6050* | 6050* | 2200 | | | | 5550* | 5550* | 1800 | 6633 |
| 3000 mm | TOOL POINT | 10550* | 10550* | 5600 | 6050* | 6050* | 3500 | 5350* | 5350* | 2350 | 5050* | 5050* | 1450 | 5050* | 5050* | 1450 | 7480 |
| | ALP | | | | 6050* | 6050* | 3450 | 6150* | 6150* | 2150 | | | | 5450* | 5450* | 1600 | 7051 |
| 1500 mm | TOOL POINT | 11850* | 11850* | 5400 | 5900* | 5900* | 3450 | 5700* | 5700* | 2300 | 4850* | 4850* | 1450 | 4750* | 4750* | 1400 | 7578 |
| | ALP | | | | 6250* | 6250* | 3350 | 6450* | 6450* | 2100 | | | | 5050* | 5050* | 1500 | 7116 |
| 0 mm | TOOL POINT | 14150* | 14150* | 5200 | 7400* | 7400* | 3250 | 6750* | 6750* | 2100 | | | | 4300* | 4300* | 1450 | 7358 |
| | ALP | | | | 8000* | 8000* | 3200 | 6600* | 6600* | 2000 | | | | 4500* | 4500* | 1600 | 6839 |
| –1500 mm | TOOL POINT | 15050* | 15050* | 5050 | 8200* | 8200* | 2750 | 5750* | 5750* | 2000 | | | | 4350* | 4350* | 1750 | 6440 |
| | ALP | | | | 8000** | 8000** | 3000 | | | | | | | 4900* | 4900* | 2000 | 5835 |
| –3000 mm | TOOL POINT | | | 5250 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.3 t – 9C Rail Mode, Short Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.


Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7200* | 7200* | 3800 | | | | | | | 6800* | 6800* | 3200 | 4959 |
| | ALP | | | | | | | | | | | | | 8000** | 8000** | 5050 | 3931 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 3950 | 5800* | 5800* | 2450 | | | | 5550* | 5550* | 2200 | 6336 |
| | ALP | | | | 6200* | 6200* | 4300 | | | | | | | 6250* | 6250* | 2850 | 5641 |
| 4500 mm | TOOL POINT | 10150* | 10150* | 6650 | 6200* | 6200* | 3900 | 5550* | 5550* | 2500 | | | | 5100* | 5100* | 1800 | 7119 |
| | ALP | 8000** | 8000** | 7300 | 7500* | 7500* | 4200 | 6000* | 6000* | 2600 | | | | 5600* | 5600* | 2200 | 6557 |
| 3000 mm | TOOL POINT | 9800* | 9800* | 6450 | 6100* | 6100* | 3850 | 5300* | 5300* | 2550 | 5050* | 5050* | 1600 | 5050* | 5050* | 1600 | 7508 |
| | ALP | | | | 8000** | 8000** | 4150 | 6100* | 6100* | 2550 | | | | 5450* | 5450* | 1900 | 7021 |
| 1500 mm | TOOL POINT | 9200* | 9200* | 6500 | 5800* | 5800* | 3850 | 5700* | 5700* | 2500 | 4950* | 4950* | 1600 | 4700* | 4700* | 1550 | 7569 |
| | ALP | | | | 8000** | 8000** | 4050 | 6500* | 6500* | 2550 | | | | 5100* | 5100* | 1800 | 7126 |
| 0 mm | TOOL POINT | 12550* | 12550* | 6200 | 7150* | 7150* | 3650 | 6700* | 6700* | 2350 | | | | 4200* | 4200* | 1650 | 7310 |
| | ALP | | | | 8000** | 8000** | 3800 | 6550* | 6550* | 2400 | | | | 4550* | 4550* | 1850 | 6891 |
| –1500 mm | TOOL POINT | 15100* | 15100* | 6150 | 9500* | 9500* | 3600 | 6050* | 6050* | 2250 | | | | 4250* | 4250* | 1900 | 6610 |
| | ALP | | | | 8000** | 8000** | 3600 | 4700* | 4700* | 2300 | | | | 4700* | 4700* | 2300 | 6025 |
| –3000 mm | TOOL POINT | | | 6350 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

## Lift Capacities – Variable Adjustable Boom – Counterweight: 6.7 t – 9C Rail Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.


Load at maximum reach (stick nose/bucket pin/ALP) | Load over front | Load over rear | Load over side | Load point height | Road or Rail oscillating axle locked | Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7200* | 7200* | 3850 | | | | | | | 6800* | 6800* | 3300 | 4959 |
| | ALP | | | | | | | | | | | | | 8000** | 8000** | 4550 | 3931 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 4000 | 5800* | 5800* | 2500 | | | | 5550* | 5550* | 2250 | 6336 |
| | ALP | | | | 6200* | 6200* | 3950 | | | | | | | 6250* | 6250* | 2650 | 5641 |
| 4500 mm | TOOL POINT | 10150* | 10150* | 6750 | 6200* | 6200* | 3950 | 5550* | 5550* | 2550 | | | | 5100* | 5100* | 1850 | 7119 |
| | ALP | 8000** | 8000** | 6650 | 7500* | 7500* | 3900 | 6000* | 6000* | 2450 | | | | 5600* | 5600* | 2050 | 6557 |
| 3000 mm | TOOL POINT | 9800* | 9800* | 6550 | 6100* | 6100* | 3900 | 5300* | 5300* | 2600 | 5050* | 5050* | 1650 | 5050* | 5050* | 1650 | 7508 |
| | ALP | | | | 8000** | 8000** | 3850 | 6100* | 6100* | 2400 | | | | 5450* | 5450* | 1800 | 7021 |
| 1500 mm | TOOL POINT | 9200* | 9200* | 6650 | 5800* | 5800* | 3950 | 5700* | 5700* | 2550 | 4950* | 4950* | 1650 | 4700* | 4700* | 1600 | 7569 |
| | ALP | | | | 8000** | 8000** | 3850 | 6500* | 6500* | 2400 | | | | 5100* | 5100* | 1700 | 7126 |
| 0 mm | TOOL POINT | 12550* | 12550* | 6350 | 7150* | 7150* | 3750 | 6700* | 6700* | 2400 | | | | 4200* | 4200* | 1700 | 7310 |
| | ALP | | | | 8000** | 8000** | 3650 | 6550* | 6550* | 2300 | | | | 4550* | 4550* | 1800 | 6891 |
| –1500 mm | TOOL POINT | 15100* | 15100* | 6300 | 9500* | 9500* | 3650 | 6050* | 6050* | 2300 | | | | 4250* | 4250* | 1950 | 6610 |
| | ALP | | | | 8000** | 8000** | 3500 | 4700* | 4700* | 2200 | | | | 4700* | 4700* | 2200 | 6025 |
| –3000 mm | TOOL POINT | | | 6500 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

# M323 Railroad Excavator Specifications

## Lift Capacities – Variable Adjustable Boom – Counterweight: 7.6 t – 9C Rail Mode, Long Radius, 2.0 m (6'7") Stick

All values are in kg. ALP stands for Auxiliary Lifting Point, located under the stick.

 Load at maximum reach (stick nose/bucket pin/ALP)
 Load over front
 Load over rear
 Load over side
 Load point height
 Road or Rail oscillating axle locked
 Load at lift point

| | | 3000 mm | | | 4500 mm | | | 6000 mm | | | 7500 mm | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | mm |
| 7500 mm | TOOL POINT | | | | 7200* | 7200* | 4250 | | | | | | | 6800* | 6800* | 3600 | 4959 |
| | ALP | | | | | | | | | | | | | 8000** | 8000** | 5550 | 3931 |
| 6000 mm | TOOL POINT | | | | 6300* | 6300* | 4400 | 5800* | 5800* | 2750 | | | | 5550* | 5550* | 2500 | 6336 |
| | ALP | | | | 6200* | 6200* | 4700 | | | | | | | 6250* | 6250* | 3200 | 5641 |
| 4500 mm | TOOL POINT | 10150* | 10150* | 7300 | 6200* | 6200* | 4350 | 5550* | 5550* | 2800 | | | | 5100* | 5100* | 2050 | 7119 |
| | ALP | 8000** | 8000** | 8000 | 7500* | 7500* | 4650 | 6000* | 6000* | 2900 | | | | 5600* | 5600* | 2450 | 6557 |
| 3000 mm | TOOL POINT | 9800* | 9800* | 7150 | 6100* | 6100* | 4250 | 5300* | 5300* | 2900 | 5050* | 5050* | 1850 | 5050* | 5050* | 1850 | 7508 |
| | ALP | | | | 8000** | 8000** | 4550 | 6100* | 6100* | 2900 | | | | 5450* | 5450* | 2150 | 7021 |
| 1500 mm | TOOL POINT | 9200* | 9200* | 7200 | 5800* | 5800* | 4300 | 5700* | 5700* | 2850 | 4950* | 4950* | 1850 | 4700* | 4700* | 1800 | 7569 |
| | ALP | | | | 8000** | 8000** | 4450 | 6500* | 6500* | 2850 | | | | 5100* | 5100* | 2050 | 7126 |
| 0 mm | TOOL POINT | 12550* | 12550* | 6950 | 7150* | 7150* | 4100 | 6700* | 6700* | 2650 | | | | 4200* | 4200* | 1850 | 7310 |
| | ALP | | | | 8000** | 8000** | 4250 | 6550* | 6550* | 2700 | | | | 4550* | 4550* | 2150 | 6891 |
| –1500 mm | TOOL POINT | 15100* | 15100* | 6900 | 9500* | 9500* | 4000 | 6050* | 6050* | 2550 | | | | 4250* | 4250* | 2200 | 6610 |
| | ALP | | | | 8000** | 8000** | 4050 | 4700* | 4700* | 2550 | | | | 4700* | 4700* | 2550 | 6025 |
| –3000 mm | TOOL POINT | | | 7050 | | | | | | | | | | | | | |
| | ALP | | | | | | | | | | | | | | | | |

*Limited by hydraulic rather than tipping load. Values are calculated using the stub boom. Under certain front linkage positions, it is possible to increase lifting capacities using the variable adjustable boom (fore boom) and the stick cylinders.

**Maximum Auxiliary Lifting Point (ALP).

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. Lifting capacities with load over side are calculated with optimized position of the front linkage. Values at the auxiliary lifting point (ALP) with a reach under 4500 mm are calculated with the stick positioned vertically. Values at tool point with a reach set at 3000 mm are calculated with the stick folded back towards the machine, additional lowering control valve on stick cylinder head end is required for load lifting.

For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

## Attachments Offering Guide

Not all attachments are available in all regions. Matches are dependent on machine configuration, payload policy, and rail specific safety parameters. Consult your Cat dealer for configurations available in your region.

| PIN-ON ATTACHMENTS | |
|---|---|
| Pin Grabber Couplers | Cat PG |
| CW Dedicated Couplers | CW-30 |
| | CW-30s |
| Hydraulic Connecting CW Coupler | HCCW30 |
| Hydraulic Connecting S Type Couplers | HCS60 |
| | HCS65 |
| | HCS70* |
| | HCS70/55* |
| Tilt Rotate Systems | TRS17 |

*Available with 7.6 t counterweight configuration only.

# M323 Standard and Optional Equipment

## Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat® dealer for details.

| | Standard | Optional |
|---|---|---|
| **BOOM, STICKS, AND LINKAGES** | | |
| 5.2 m (17'1") Variable Adjustable boom | ✓ | |
| 2.0 m (6'7") stick | ✓ | |
| **ELECTRICAL SYSTEM** | | |
| LED lights on boom and cab | ✓ | |
| LED lights on chassis (LH, RH) and counterweight | ✓ | |
| Programmable time-delay LED working lights | ✓ | |
| Roading and indicator lights, front and rear | ✓ | |
| Maintenance free batteries | ✓ | |
| Centralized electrical disconnect switch | ✓ | |
| Electrical refueling pump | | ✓ |
| **ENGINE** | | |
| Cat® C4.4 diesel engine | ✓ | |
| Work up to 3000 m (9,842 ft) above sea level without engine power de-rating | ✓ | |
| Electric fuel priming pump | ✓ | |
| 52°C (125°F) high-ambient cooling capacity | ✓ | |
| Cold starting capability for –18°C (0°F) | ✓ | |
| 2x140 amp alternators | ✓ | |
| Air compressor | ✓ | |
| Double element air filter with integrated precleaner | ✓ | |
| **HYDRAULIC SYSTEM** | | |
| Adjustable hydraulic sensitivity | ✓ | |
| Separate dedicated swing pump | ✓ | |
| Load sensing hydraulic system | ✓ | |
| Programmable flow and pressure for up to 10 attachments | ✓ | |
| Auxiliary circuit pedal | | ✓ |
| Panolin biodegradable hydraulic oil | | ✓ |
| High pressure circuit control valve | ✓ | |
| Heavy lift mode | ✓ | |
| Engine Power mode (P) – Augmented hydraulic flow | ✓ | |
| Medium pressure auxiliary circuit (one/two way medium-pressure flow) | ✓ | |
| High pressure auxiliary boom lines | ✓ | |
| Drain line 1/2" | | ✓ |
| Low back pressure return line 1" | | ✓ |
| Quick coupler circuit for Cat Pin Grabber/CW Dedicated/S/HCS/HCCW | ✓ | |

| | Standard | Optional |
|---|---|---|
| **SAFETY AND SECURITY** | | |
| Rear view camera | ✓ | |
| Rear and right-side-view cameras | ✓ | |
| 360° visibility | | ✓ |
| Wide angle mirrors | ✓ | |
| Heated and remotely adjustable mirrors | | ✓ |
| Travel alarm | | ✓ |
| Signal/warning horn | | ✓ |
| Rotating beacon on cab and chassis | | ✓ |
| Neutral lever (lock out) for all controls | ✓ | |
| Ground-level accessible secondary engine shutoff switch in cab | ✓ | |
| Anti-skid plate and countersunk bolts on service platform | ✓ | |
| Access lights | | ✓ |
| Inspection Lighting | | ✓ |
| Safe Energy Control System (ECS) | ✓ | |

*(continued on next page)*

## Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

| | Standard | Optional |
|---|---|---|
| **SERVICE AND MAINTENANCE** | | |
| S·O·S℠ ports | ✓ | |
| Automatic lubrication system for implement and swing system | ✓ | |
| **CAT TECHNOLOGY** | | |
| Cat Equipment Management: | | |
| – VisionLink™ | ✓[1] | |
| – Remote Flash | ✓ | |
| – Remote Troubleshoot | ✓ | |

| | Standard | Optional |
|---|---|---|
| **UNDERCARRIAGE AND STRUCTURES** | | |
| Long radius counterweight | | ✓ |
| Short radius counterweight | | ✓ |
| Removeable counterweight for road regulation | | ✓ |
| Hydrostatic (9A) transmission | | ✓ |
| Friction (9C) transmission | | ✓ |
| Dual (9A & 9C) transmission | | ✓ |
| Fuel tank in undercarriage | ✓ | |
| Tires, Dual or Single for 9A and 9C transmission | ✓ | ✓ |
| Road and rail travel speed | ✓ | |
| Left and right-side steps | ✓ | |
| Rail wheel stone shield protection | | ✓ |
| Towing coupler (manual or automatic) | | ✓ |
| Rail coupler | | ✓ |
| Rail towing bar | | ✓ |
| Lifting points | ✓ | |
| Tie-down points | ✓ | |
| 1M Track gauge kit | | ✓ |

[1]Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.

# M323 Cab Options

## Cab Options

| | Comfort | Deluxe |
|---|---|---|
| Sound-suppressed ROPS cab | ● | ● |
| Heated seat with air-adjustable suspension | ● | X |
| Heated and cooled seat with automatic adjustable suspension | X | ● |
| Height-adjustable console, infinite with no tool | ● | ● |
| High-resolution 254 mm (10") LCD touchscreen monitor | ● | ● |
| Mechanical Mirror | ● | X |
| Electrical Mirror | X | ● |
| Automatic bi-level air conditioner | ● | ● |
| Jog dial and shortcut keys for monitor control | ● | ● |
| Keyless push-to-start engine control | ● | ● |
| 51 mm (2") orange seat belt (front and rear seat) | ● | ● |
| Unfastened seat belt warning (front seat only) | ● | ● |
| Bluetooth® integrated radio with USB ports and speakers | ● | ● |
| 2 × 12V DC outlets | ● | ● |
| Document storage | ● | ● |
| Cup and bottle holders | ● | ● |
| Openable two-piece front window (laminated) | ● | ● |
| Parallel wiper with washer (front windshield) | ● | ● |
| Roof wiper | ○ | ○ |
| Rear wiper with washer | ○ | ○ |
| LED dome lights | ● | ● |
| Roller rear sunscreen | X | ● |
| Washable floor mat | ● | ● |
| Beacon ready | ● | ● |
| Two LED cab lights | ● | ● |
| Rain visor | ● | ● |

● Standard

○ Optional

X Not available

# M323 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

## Engine

- Meets EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)***
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.

– If equipped with R134a (Global Warming Potential = 1430), the system contains 0.8 kg (1.8 lb) of refrigerant which has a $CO_2$ equivalent of 1.144 metric tonnes (1.261 tons).

– If equipped with R1234yf (Global Warming Potential = 0.5), the system contains 0.8 kg (1.8 lb) of refrigerant which has a $CO_2$ equivalent of 0.0004 metric tonnes (0.0004 tons).

## Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

## Sound Performance

| | |
|---|---|
| ISO 6395:2008 external | 100 dB(A) |
| ISO 6396:2008 internal | 69 dB(A) |

External Sound – The labelled spectator sound power level represents the Guaranteed Value per 2000/14/EC amended by 2005/88/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.

Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.

Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

## Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems help balance power and efficiency
  - Eco mode helps minimize fuel consumption for light applications
  - One-touch low idle with automatic engine speed control
  - Remote Flash and Remote Troubleshoot

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

AEXQ4567-00 (05-2026)
(Europe)



Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.