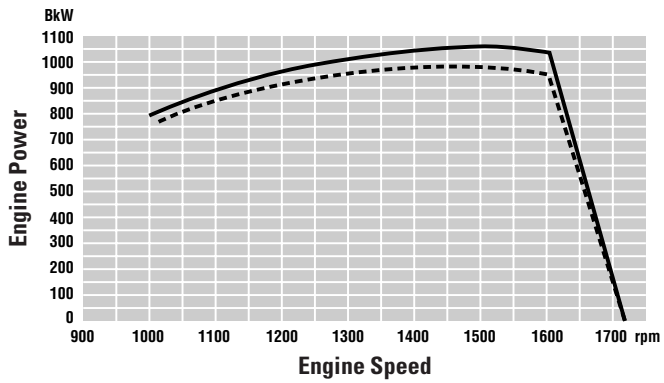
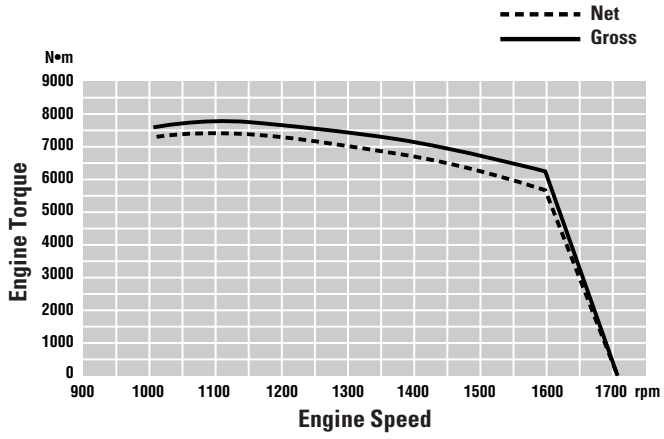


994D Wheel Loader

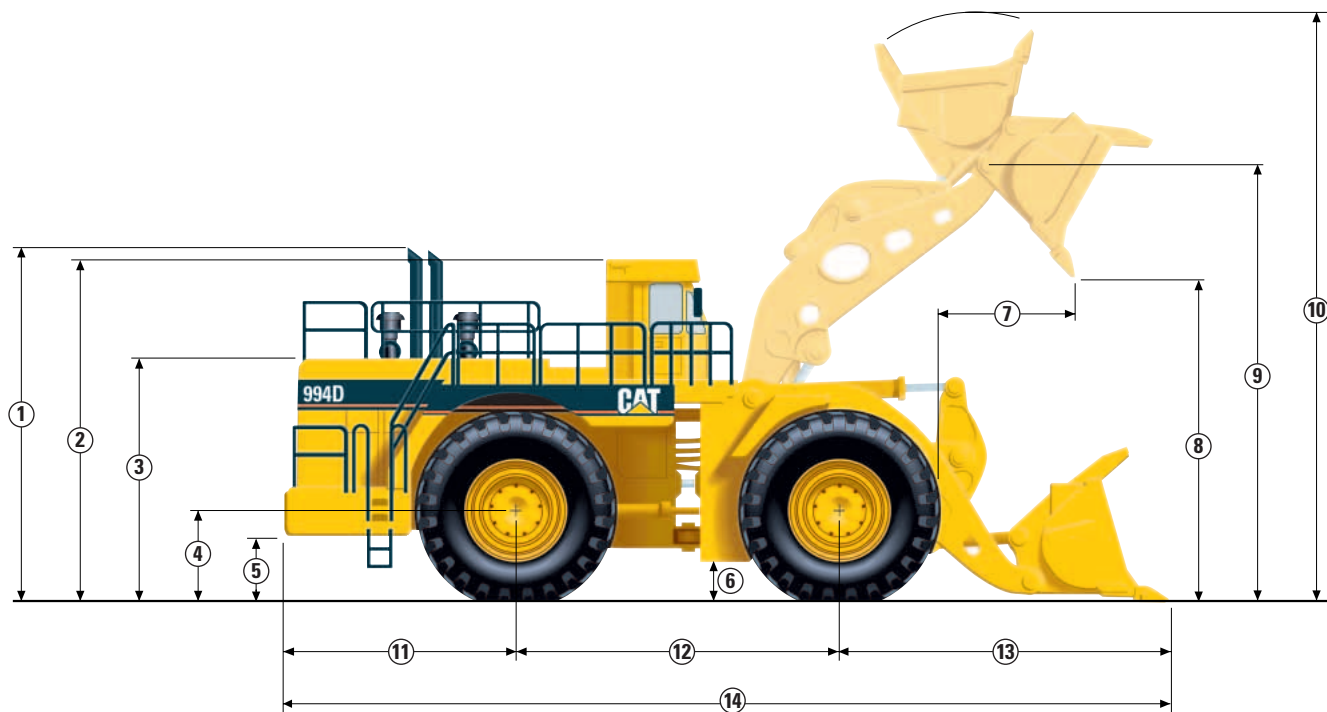
Engine Torque



994D Wheel Loader

Dimensions

All dimensions are approximate.



| | Standard* | High Lift** | Standard* | High Lift** |
|---|---------------------|---------------------|---------------------|---------------------|
| | 50/80-57 Tires | 50/80-57 Tires | 53.5/85-57 Tires | 53.5/85-57 Tires |
| 1 Height to Top of Exhaust Stacks | 6765 mm (22.2 ft) | 6765 mm (22.2 ft) | 6914 mm (22.7 ft) | 6914 mm (22.7 ft) |
| 2 Height to Top of ROPS/FOPS | 6562 mm (21.5 ft) | 6562 mm (21.5 ft) | 6711 mm (22.0 ft) | 6711 mm (22.0 ft) |
| 3 Height to Top of Hood | 4610 mm (15.1 ft) | 4610 mm (15.1 ft) | 4759 mm (15.6 ft) | 4759 mm (15.6 ft) |
| 4 Height to Center of Axle | 1601 mm (5.2 ft) | 1601 mm (5.2 ft) | 1750 mm (5.7 ft) | 1750 mm (5.7 ft) |
| 5 Bumper Clearance | 1261 mm (4.1 ft) | 1261 mm (4.1 ft) | 1410 mm (4.6 ft) | 1410 mm (4.6 ft) |
| 6 Ground Clearance | 676 mm (2.2 ft) | 676 mm (2.2 ft) | 825 mm (2.7 ft) | 825 mm (2.7 ft) |
| 7 Reach at Maximum Lift/Dump | 2443 mm (8.0 ft) | 3005 mm (9.9 ft) | 2263 mm (7.4 ft) | 2825 mm (9.3 ft) |
| 8 Clearance at Maximum Lift/Dump | 5412 mm (17.8 ft) | 5751 mm (18.9 ft) | 5592 mm (18.3 ft) | 5931 mm (19.5 ft) |
| 9 Bucket Pivot at Maximum Lift | 7977 mm (26.2 ft) | 8317 mm (27.3 ft) | 8157 mm (26.8 ft) | 8496 mm (27.9 ft) |
| 10 Overall Height – Bucket Raised | 10 816 mm (35.5 ft) | 11 156 mm (36.6 ft) | 10 996 mm (36.1 ft) | 11 336 mm (37.2 ft) |
| 11 Length – Rear Axle to Bumper | 4500 mm (14.8 ft) | 4500 mm (14.8 ft) | 4500 mm (14.8 ft) | 4500 mm (14.8 ft) |
| 12 Wheel Base Length | 6400 mm (21.0 ft) | 6400 mm (21.0 ft) | 6400 mm (21.0 ft) | 6400 mm (21.0 ft) |
| 13 Length – Front Axle to Bucket Tip | 6029 mm (19.8 ft) | 6809 mm (22.3 ft) | 5909 mm (19.4 ft) | 6689 mm (22.0 ft) |
| 14 Overall Length | 16 929 mm (55.5 ft) | 17 709 mm (58.1 ft) | 16 809 mm (55.1 ft) | 17 589 mm (57.7 ft) |

* Standard machine equipped with 19 m³ (24.5 yd³) 222 in. Bucket

** High Lift machine equipped with 18 m³ (23.5 yd³) 245 in. Bucket

994D Wheel Loader

Operating Specifications – Narrow Buckets

For machines equipped with 5650 mm (222 in) and 5740 mm (226 in) buckets

| | | Standard Lift (53.5/85-57, 76 PR L-5 Tires) | | | | | High Lift | Tires 50/80-57 |
|--|-----------------|--|---------|---------|----------------------------------|---------|-----------|----------------|
| | | Spade Edge Rock Buckets with Teeth and Segment | | | Spade Edge Rock Buckets with MAA | | | |
| Rated capacity (\$) | m ³ | 15 | 17 | 19 | 17 | 19 | Same | Same |
| | yd ³ | 19.5 | 22.5 | 24.5 | 22.5 | 24.5 | | |
| Struck capacity (\$) | m ³ | 12.8 | 14 | 15 | 14 | 15 | Same | Same |
| | yd ³ | 15.5 | 18 | 20 | 18 | 20 | | |
| Width (\$) | mm | 5650 | 5650 | 5650 | 5740 | 5740 | Same | Same |
| | ft/in | 18' 6" | 18' 6" | 18' 6" | 18' 10" | 18' 10" | | |
| Dump clearance at full lift and 45° discharge (\$) | mm | 5799 | 5698 | 5592 | 5607 | 5502 | +339 | -180 |
| | ft/in | 19' 0" | 18' 8" | 18' 4" | 18' 5" | 18' 1" | +1' 1" | -7" |
| Reach at full lift and 45° discharge (\$) | mm | 2055 | 2157 | 2263 | 2246 | 2351 | +562 | +180 |
| | ft/in | 6' 9" | 7' 1" | 7' 5" | 7' 4" | 7' 9" | +1' 10" | +7" |
| Reach with lift arms horizontal and bucket level | mm | 4912 | 5056 | 5206 | 5183 | 5333 | +640 | +180 |
| | ft/in | 16' 1" | 16' 7" | 17' 1" | 17' 0" | 17' 6" | +2' 1" | +7" |
| Digging depth (\$) | mm | 68 | 68 | 68 | 68 | 68 | +14 | +180 |
| | in | 3" | 3" | 3" | 3" | 3" | +0.5" | +7" |
| Overall length (\$) | mm | 16 621 | 16 659 | 16 809 | 16 892 | 17 042 | +780 | +120 |
| | ft/in | 54' 6" | 54' 8" | 55' 2" | 55' 5" | 55' 11" | +2' 7" | +5" |
| Overall height with bucket at full raise (\$) | mm | 10 786 | 10 916 | 10 996 | 11 036 | 11 174 | +340 | -180 |
| | ft/in | 35' 5" | 35' 10" | 36' 1" | 36' 2" | 36' 8" | +1' 1" | -7" |
| Loader clearance circle with bucket in carry position (\$) | mm | 25 140 | 25 362 | 25 436 | 25 558 | 25 788 | +299 | +64 |
| | ft/in | 82' 6" | 83' 2" | 83' 6" | 83' 10" | 84' 8" | +1' 0" | +3" |
| Static tipping load straight** (\$) | kg | 126 758 | 125 829 | 124 764 | 125 278 | 124 495 | 0.82† | 1.02† |
| | lb | 279,453 | 277,405 | 275,057 | 276,190 | 274,464 | 0.82† | 1.02† |
| Static tipping load at full 40° turn** (\$) | kg | 107 095 | 106 166 | 105 101 | 105 615 | 104 832 | 0.80† | 1.02† |
| | lb | 236,104 | 234,056 | 231,708 | 232,841 | 231,115 | 0.80† | 1.02† |
| Breakout force*** (\$) | kN | 1057 | 950 | 886 | 961 | 923 | 0.96† | 1.00† |
| | lb | 237,825 | 213,750 | 199,350 | 216,225 | 207,675 | 0.96† | 1.00† |
| Operating weight** (\$) | kg | 189 343 | 190 229 | 191 244 | 190 754 | 191 500 | +2553 | -4681 |
| | lb | 417,429 | 419,383 | 421,620 | 420,540 | 422,185 | +5630 | -10,320 |

(\$) Specifications rating conform to all applicable standards recommended by the Society of Automotive Engineers. SAE standard J732c governs loader ratings and is denoted in the chart by (\$).

* Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standard specifies the cutting edge.

** Static tipping load and operating weight shown are based on standard machine configuration with 53.5/85-57 tires, full fuel tank, coolant and lubricants.

*** Measured 102 mm (4 in) behind tip of cutting edge with the bucket hinge pin as pivot point in accordance with SAE J732c.

† Factor multiplied by standard arrangement data to get high lift arrangement value.

◆ Buckets with Mechanically Attached Adapter (MAA) system have corner adapters that add 76-102 mm (3-4 in) to the overall bucket width. This does not change the capacity of the bucket.

994D Wheel Loader

Operating Specifications – Wide Buckets

For machines equipped with 6220 mm (245 in) and 6300 mm (248 in) buckets

| | | Standard Lift (53.5/85-57, 76 PR L-5 Tires) | | | | | High Lift | Tires 50/80-57 |
|--|-----------------|---|---------|---------------------------|---------------------------------|---------|-----------|----------------|
| | | Spade Edge Rock Bucket with Teeth and Segment | | Straight Edge Coal Bucket | Spade Edge Rock Bucket with MAA | | | |
| Rated capacity (\$) | m ³ | 18 | 19 | 31 | 18 | 19 | Same | Same |
| | yd ³ | 23.5 | 25 | 41 | 23.5 | 25 | | |
| Struck capacity (\$) | m ³ | 14 | 15 | 26 | 14 | 15 | Same | Same |
| | yd ³ | 18 | 19.5 | 34 | 18 | 19.5 | | |
| Width (\$) | mm | 6220 | 6220 | 6220 | 6300 | 6300 | Same | Same |
| | ft/in | 20' 5" | 20' 5" | 20' 5" | 20' 8" | 20' 8" | | |
| Dump clearance at full lift and 45° discharge (\$) | mm | 5698 | 5592 | 5610 | 5608 | 5502 | +339 | -180 |
| | ft/in | 18' 8" | 18' 4" | 18' 5" | 18' 5" | 18' 1" | +1' 1" | -7" |
| Reach at full lift and 45° discharge (\$) | mm | 2157 | 2263 | 2243 | 2246 | 2352 | +562 | +180 |
| | ft/in | 7' 1" | 7' 5" | 7' 4" | 7' 4" | 7' 9" | +1' 10" | +7" |
| Reach with lift arms horizontal and bucket level | mm | 5056 | 5206 | 5177 | 5183 | 5333 | +640 | +180 |
| | ft/in | 16' 7" | 17' 1" | 17' 0" | 17' 0" | 17' 6" | +2' 1" | +7" |
| Digging depth (\$) | mm | 68 | 68 | 68 | 68 | 68 | +14 | +180 |
| | in | 3" | 3" | 3" | 3" | 3" | +0.5" | +7" |
| Overall length (\$) | mm | 16 659 | 16 809 | 16 888 | 16 892 | 17 042 | +780 | +120 |
| | ft/in | 54' 8" | 55' 2" | 55' 5" | 55' 5" | 55' 11" | +2' 7" | +5" |
| Overall height with bucket at full raise (\$) | mm | 10 919 | 11 011 | 11 032 | 11 036 | 11 174 | +340 | -180 |
| | ft/in | 35' 10" | 36' 2" | 36' 2" | 36' 2" | 36' 8" | +1' 1" | -7" |
| Loader clearance circle with bucket in carry position (\$) | mm | 25 362 | 25 436 | 26 354 | 25 558 | 25 788 | +299 | +64 |
| | ft/in | 83' 2" | 83' 6" | 86' 6" | 83' 10" | 84' 8" | +1' 0" | +3" |
| Static tipping load straight** (\$) | kg | 124 561 | 123 877 | 123 448 | 123 753 | 123 298 | 0.82† | 1.02† |
| | lb | 274,610 | 273,102 | 272,156 | 272,828 | 271,825 | 0.82† | 1.02† |
| Static tipping load at full 40° turn** (\$) | kg | 104 898 | 104 214 | 103 785 | 104 090 | 103 635 | 0.80† | 1.02† |
| | lb | 231,260 | 229,752 | 228,807 | 229,479 | 228,476 | 0.80† | 1.02† |
| Breakout force*** (\$) | kN | 944 | 877 | 959 | 958 | 913 | 0.96† | 1.00† |
| | lb | 212,400 | 197,325 | 215,775 | 215,550 | 205,425 | 0.96† | 1.00† |
| Operating weight** (\$) | kg | 191 437 | 192 089 | 192 498 | 192 207 | 192 641 | +2553 | -4681 |
| | lb | 422,046 | 423,483 | 424,385 | 423,743 | 424,700 | +5630 | -10,320 |

(\$) Specifications rating conform to all applicable standards recommended by the Society of Automotive Engineers. SAE standard J732c governs loader ratings and is denoted in the chart by (\$).

* Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standard specifies the cutting edge.

** Static tipping load and operating weight shown are based on standard machine configuration with 53.5/85-57 tires, full fuel tank, coolant and lubricants.

*** Measured 102 mm (4 in) behind tip of cutting edge with the bucket hinge pin as pivot point in accordance with SAE J732c.

† Factor multiplied by standard arrangement data to get high lift arrangement value.

◆ Buckets with Mechanically Attached Adapter (MAA) system have corner adapters that add 76-102 mm (3-4 in) to the overall bucket width. This does not change the capacity of the bucket.

994D Wheel Loader

Tire Specifications

| | Change in Operating Weight Standard (for four tires) | Change in Static Tipping Load | | | |
|------------------------|---|-------------------------------|----------|-----------|----------|
| | | Standard | | High Lift | |
| 49.5/85-57, 76PR L-5* | -1056 kg -2328 lb | -737 kg | -1625 lb | -631 kg | -1391 lb |
| 53.5/85-57, 76PR L-5** | 0 kg 0 lb | 0 kg | 0 lb | 0 kg | 0 lb |
| 50/80-57, 68PR L-4** | -4149 kg -9149 lb | -2895 kg | -6383 lb | -2478 kg | -5464 lb |
| 52/80-57, 68PR L-4** | -4744 kg -10 461 lb | -3183 kg | -7019 lb | -2724 kg | -6006 lb |
| 55/80-R57, XMINE D2*** | -1356 kg -2990 lb | -946 kg | -2086 lb | -810 kg | -1786 lb |

* with 914 mm (36 in) rims

** with 1118 mm (44 in) rims with 152 mm (6 in) flange

*** with 1118 mm (44 in) rims with 126 mm (5 in) flange

Tire Dimensions

| | Width over tires | | Ground clearance | | Change in vertical dimensions | |
|----------------------|------------------|-----------|------------------|----------|-------------------------------|----------|
| 49.5/85-57, 76PR L-5 | 5265 mm | 207.28 in | 828 mm | 32.60 in | 3 mm | 0.19 in |
| 53.5/85-57, 76PR L-5 | 5449 mm | 214.53 in | 825 mm | 32.48 in | 0 mm | 0 in |
| 50/80-57, 68PR L-4 | 5260 mm | 207.09 in | 676 mm | 21.61 in | -149 mm | -5.87 in |
| 52/80-57, 68PR L-4 | 5260 mm | 207.09 in | 676 mm | 21.61 in | -149 mm | -5.87 in |
| 55/80-R57, XMINE D2 | 5449 mm | 214.53 in | 705 mm | 27.76 in | -120 mm | -4.72 in |

Note: In certain applications, such as load and carry work, the loader's productive capabilities might exceed the tires' tonnes/kph (tons/mph) capabilities. Caterpillar recommends evaluating all operating conditions before selecting a tire.

994D Wheel Loader

Bucket Capacity Ratings

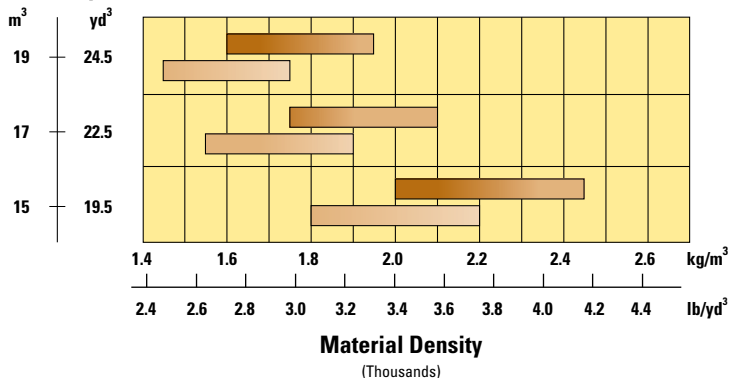
994D buckets have been slightly modified to allow for a higher capacity rating. The new ratings better reflect the actual carrying capacity of the bucket. Physical dimensions of the buckets have not changed.

| Bucket Description | Former Capacity Rating | | New Capacity Rating | |
|--|------------------------|--------------------|---------------------|----------------------|
| | m ³ | yd ³ | m ³ | yd ³ |
| Spade Edge Rock Buckets – 5650 mm (222 in) – with Teeth and Segments | 14 m ³ | 18 yd ³ | 15 m ³ | 19.5 yd ³ |
| | 16 m ³ | 21 yd ³ | 17 m ³ | 22.5 yd ³ |
| | 18 m ³ | 23 yd ³ | 19 m ³ | 24.5 yd ³ |
| | 20 m ³ | 26 yd ³ | 21 m ³ | 27.5 yd ³ |
| Spade Edge Rock Buckets – 6220 mm (245 in) – with Teeth and Segments | 16 m ³ | 21 yd ³ | 18 m ³ | 23.5 yd ³ |
| | 18 m ³ | 23 yd ³ | 19 m ³ | 25.0 yd ³ |
| Spade Edge Rock Buckets – 5650 mm (222 in) – with MAA | 16 m ³ | 21 yd ³ | 17 m ³ | 22.5 yd ³ |
| | 18 m ³ | 23 yd ³ | 19 m ³ | 24.5 yd ³ |
| Spade Edge Rock Buckets – 6300 mm (248 in) – with MAA | 16 m ³ | 21 yd ³ | 18 m ³ | 23.5 yd ³ |
| | 18 m ³ | 23 yd ³ | 19 m ³ | 25.0 yd ³ |
| Spade Edge Coal Buckets – 6220 mm (245 in) – with Teeth and Segments | 30 m ³ | 40 yd ³ | 31 m ³ | 41.0 yd ³ |

Bucket Capacity/Material Density Selection Guide

The following table provides a guideline for bucket selection based on various material densities and estimated fill factors. Based on the new ratings, fill factors are expected to be 110-120% in cohesive materials with easy digging, 100-110% in typical shot rock loading, and 90-100% in poorly shot rock with large rocks and difficult penetration. For many mining applications, the 994D standard lift is matched with the 19 m³ (24.5 yd³) rock bucket and the high lift is matched with the 17 m³ (22.5 yd³) rock bucket.

Bucket Capacity



Bucket Fill Factor



Changes in bucket weight, including field installed wear iron, can impact rated payload. Consult your Caterpillar dealer for assistance in selecting and configuring the proper bucket for the application. The Caterpillar Large Wheel Loader Payload Policy is a guideline intended to maximize wheel loader structural and component life.

994D Wheel Loader

Mandatory Attachments (select one from each group)

Mandatory and optional equipment may vary. Consult your Caterpillar dealer for specifics.

LIFT ARRANGEMENTS

| | | |
|-----------|---------|---------|
| Standard | 0 kg | 0 lb |
| High Lift | 2553 kg | 5630 lb |

LINES GROUP

| | | |
|---------------------------|-------|-------|
| Fuel lines without heater | 0 kg | 0 lb |
| Cold weather starting | 32 kg | 71 lb |

RIMS

| | | |
|---|--------|---------|
| 914 mm (36") wide | 0 kg | 0 lb |
| 1118 mm (44") wide with 126 mm (5") flange | 531 kg | 1170 lb |
| 1118 mm (44") wide with 152 mm (6") flange | 428 kg | 944 lb |

STARTERS

| | | |
|--|--------|--------|
| Air start, vane, Ingersoll | 0 kg | 0 lb |
| Air start, turbine, TDI | 0 kg | 0 lb |
| Electric – not recommended in ambient temperatures below 0°C (32°F) | 193 kg | 426 lb |

Optional Equipment

BUCKETS

| | | |
|---|-----------|-----------|
| NARROW – 5650 mm (222 in) | | |
| Rock – 15 m ³ (19.5 yd ³) (J800) | 18 652 kg | 41,120 lb |
| Rock – 17 m ³ (22.5 yd ³) (J800) | 19 536 kg | 43,070 lb |
| Rock – 19 m ³ (24.5 yd ³) (J800) | 20 552 kg | 45,310 lb |
| WIDE – 6220 mm (245 in) | | |
| Rock – 18 m ³ (23.5 yd ³) (J800) | 20 661 kg | 45,550 lb |
| Rock – 19 m ³ (25.0 yd ³) (J800) | 21 315 kg | 46,990 lb |
| Coal – 31 m ³ (41.0 yd ³) (J700) | 21 723 kg | 47,890 lb |

GROUND ENGAGING TOOLS

BUCKET TIPS*

| | | |
|-------------------------------------|--------|--------|
| Heavy duty – long – rock (J800) | 88 kg | 193 lb |
| Heavy duty – abrasion – rock (J800) | 105 kg | 232 lb |
| Penetration – rock (J800) | 54 kg | 120 lb |
| Heavy duty – long – coal (J700) | 51 kg | 113 lb |
| Heavy duty – abrasion – coal (J700) | 66 kg | 145 lb |

BUCKET WINGS

| | | |
|-------------|--------|--------|
| Low profile | 350 kg | 772 lb |
|-------------|--------|--------|

COLD WEATHER

| | | |
|----------------------|-------|-------|
| Arctic hoses | 0 kg | 0 lb |
| Arctic lubricants | 0 kg | 0 lb |
| Transfer case heater | 14 kg | 30 lb |

POWER TRAIN

| | | |
|-----------------|--------|--------|
| Crankcase guard | 300 kg | 662 lb |
| Engine prelube | 23 kg | 50 lb |

RIMS

| | | |
|---|---------|---------|
| 914 mm (36 in) wide | 1813 kg | 3996 lb |
| 1118 mm (44 in) wide with 126 mm (5 in) flange | 1926 kg | 4245 lb |
| 1118 mm (44 in) wide with 152 mm (6 in) flange | 2096 kg | 4620 lb |

OTHER

| | | |
|-----------------------------|-------|-------|
| Rockford fan without brake | 0 kg | 0 lb |
| Sy-Klone turbine precleaner | 11 kg | 25 lb |

* Requires multiple quantities.