

EQUIPMENT RATES

Equipment Rates

EQUIPMENT RATES

The figures shown in this section are for equipment rates only. Operator rates are not included but can be found in the labor rates section. The equipment rates include fuel, oil, lubrication, repairs, maintenance, and insurance. The cost of moving most equipment to the job is included in Section 151 - Mobilization.

Profit and overhead charged to equipment are included herein (16 percent).

The rates shown herein were derived from the *Rental Rate Blue Book For Construction Equipment*. The models shown should be considered typical and their rates can be applied to similar equipment. Under most situations, the estimator should use the equipment rates listed for equipment that is 15 years of age with compatible production rates. Equipment rates for equipment that is 5 years of age may be used when it is expected to be used for the work being estimated. Local rates should be used if local equipment is generally available at a rate different than those shown herein.

For rates not shown in Table 622, estimator should refer to *Blue Book* equipment rates and correct procedures for age and location factors. For work lasting 40 hours or less, the base rate is determined by dividing the *Blue Book* daily rate by eight. For work lasting over 40 hours, the base rate is determined by dividing the *Blue Book* monthly rate by 176. The rates shown herein (Table 622) are for work in excess of 40 hours.


Location factors from the Blue Book have been applied to the rates in Table 622. They reflect the variations between National averages and local conditions caused by the differences in topography, construction seasons, and the costs of labor, freight, taxes, etc. The location factor used was for Montana.

The use of brand names is for the ease of identification of the type and size of equipment and does not constitute an endorsement of any product. Some models listed are no longer manufactured or were not manufactured during the time period under which they are classified.

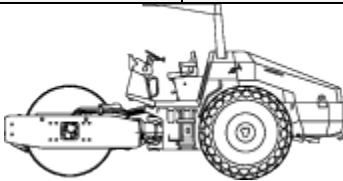

Equipment Rates

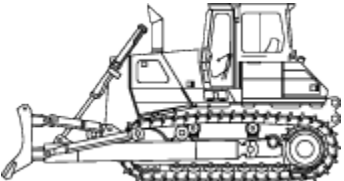
**Table 622. Equipment Rates (Cost/Hr without Operator)
2009 Blue Book +10% overhead + 6 % profit**

AIR EQUIPMENT		
Class	Age (years)	
	5	15
Portable Rotary Screw Air Compressor, Diesel		
100 cfm, 32 HP	\$11.70	\$11.70
160 cfm, 60 HP	\$18.10	\$18.00
375 cfm, 115 HP	\$34.50	\$34.50
450 cfm, 150 HP	\$43.80	\$43.70
600 cfm, 275 HP	\$73.30	\$73.20
Hand-Held Pavement Breaker		
Pavement Breaker 60-65 lbs	\$1.20	\$1.10
Pneumatic Impact Breaker		
Kent KB-2600 Air Ram, 2,000 flb, 600 bpm	\$14.30	\$13.80
Air Track Drill		
Ingersoll Rand LM 100A/ YD90, Maximum Hole Size: 2 1/ 2", Drill Type: Drifter	\$43.00	\$40.30
Ingersoll Rand CM 345/ VL140, Maximum Hole Size: 4", Drill Type: Drifter	\$53.30	\$49.80

COMPACTION EQUIPMENT		
Class	Age (Years)	
	5	15
Hand Held Rammer		
Gas, Pounds per Blow : 3180, Shoe Size: 4" - 13" , 4 HP	\$5.90	\$5.60
Hydraulic Compactor for Backhoe Mounting		
Allied 9700C W/ Swivel, Impulse Force: 13,400 lbs, Cycles per Minute: 2000	\$11.20	\$10.80
Towed Pneumatic Compactor		
Hercules PT-9, 9.6 Ton, 9 Wheels	\$16.60	\$16.20
Towed Steel Drum Static Compactor		
Hercules GTD 5496, 2 Drums, Grid	\$22.50	\$21.70
		
Self Propelled Pneumatic Compactor		
Caterpillar PS-150C, Diesel, 9 Wheels, 96 HP	\$53.70	\$52.50
Hypac C550H, Diesel, 9 Wheels, 99 HP	\$84.70	\$82.70


Equipment Rates

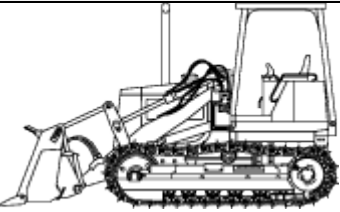

COMPACTION EQUIPMENT		
Class	Age (Years)	
	5	15
		
Single Drum Vibratory Compactor		
Caterpillar CP-323C, Diesel, Padfoot, 80 HP, Drum Width: 50"	\$46.70	\$45.10
		
Self Propelled Pat Foot Compactor		
Dynapac CT262, Diesel, 215 HP, Front Wheel Size: 60" x 39", Rear Wheel Size: 60" x 39"	\$152.80	\$148.50

CRAWLER TRACTORS		
		
Class	Age (years)	
	5	15
Caterpillar D3G XL, 70 HP, Variable Power Angle Tilt	\$56.50	\$55.10
Caterpillar D4G XL, 80 HP, Variable Power Angle Tilt	\$63.90	\$62.30
Caterpillar D5N XL, 120 HP, Variable Power Angle Tilt	\$85.40	\$83.30
Caterpillar D6N DSXL, 150 HP, Variable Power Angle Tilt	\$109.90	\$107.00
Caterpillar D7R DS Series II, 240 HP, Semi-U	\$153.30	\$149.30
Caterpillar D8R Series II, 307 HP, Semi-U	\$201.70	\$196.30
Caterpillar D9R, 410 HP, Semi-U	\$262.20	\$255.30
Deere 450JLT, 70 HP, Power Angle Tilt	\$57.80	\$56.40
Deere 550JLT, 80 HP, Power Angle Tilt	\$64.90	\$63.20
Deere 750C Series II LGP, 140 HP, Power Angle Tilt	\$101.30	\$98.80
Deere 850C Series II LT, 185 HP, Power Angle Tilt	\$123.40	\$120.20
Multi-Shank Ripper: Add to appropriate tractor above		
Ripper for 130HP to 215HP	+\$19.90	+\$18.90
Ripper for 285HP to 405HP	+\$30.60	+\$29.00


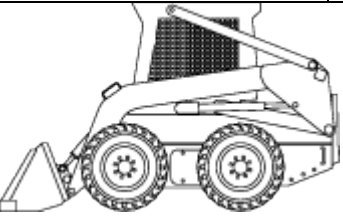
Equipment Rates

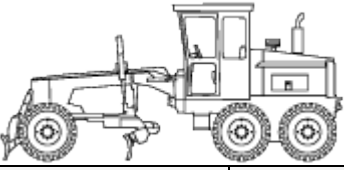
DISTRIBUTORS		
Class	Age (years)	
	5	15
Truck Mounted, Tandem Axle, Gas		
1,600 Gal	\$33.50	\$31.70
2,000 Gal	\$34.00	\$32.10
3,100 Gal	\$37.50	\$35.50

HYDRAULIC EXCAVATORS - CRAWLER MOUNTED		
		
Class	Age (Years)	
	5	15
Caterpillar 311C U, 0.39 cy, 79HP	\$60.70	\$58.80
Caterpillar 312C L, 0.68 cy, 90HP	\$70.10	\$67.80
Caterpillar 320C L, 1.25 cy, 138HP	\$114.80	\$111.20
Caterpillar 325C L, 1.5 cy, 186HP	\$135.90	\$131.90
Caterpillar 330C L, 2.25 cy, 244HP	\$165.10	\$160.20
Deere 120C, 0.79 cy, 89HP	\$72.00	\$69.70
Deere 200C LC, 1.12 cy, 141HP	\$101.90	\$98.80
Hitachi ZAXIS200LC, 1.12 cy, 147HP	\$103.10	\$100.00
Hitachi ZAXIS270LC-3, 1.75 cy, 188HP	\$134.00	\$130.00
Komatsu PC120-6, 0.63 cy, 89HP	\$66.80	\$64.70
Komatsu PC160LC-7, 0.85 cy, 115HP	\$86.50	\$83.80
Komatsu PC200-7, 1.0 cy, 143HP	\$97.20	\$94.40
Komatsu PC220LC-8, 1.57 cy, 168HP	\$129.70	\$125.70
Komatsu PC270LC-8, 1.85 cy, 187HP	\$145.40	\$140.80

LOADERS		
Class	Age (Years)	
	5	15
		
Crawler Loader		
Caterpillar 939C, 1½ cy, 90 HP	\$64.80	\$63.00
Caterpillar 953C, 2.42 cy, 128 HP	\$106.80	\$103.50
Caterpillar 963C, 3.2 cy., 158 HP	\$137.10	\$133.10
		
Wheel Loader-Backhoe		
Deere 310G, Diesel, 1 cy, 70 HP, WD, Extendable backhoe stick, Digging	\$40.10	\$39.30

Equipment Rates

LOADERS		
Class	Age (Years)	
	5	15
Depth < 15'		
Case 580 Super M Series 2, 2WD, 1 cy, 90 HP, Extendable backhoe stick, Digging Depth < 15'	\$47.00	\$45.90
Case 580 Super M Series 2, 4WD, 1 cy, 90 HP, Extendable backhoe stick, Digging Depth < 15'	\$49.10	\$48.10
		
Wheel Loader: Diesel, 4WD, Articulated		
Case 21D, 0.92 cy, 51 HP	\$31.80	\$31.10
Komatsu WA 250-5, 3 cy, 134 HP	\$58.40	\$57.10
Caterpillar IT28G, 2.35 cy, 143 HP	\$60.30	\$59.00
Caterpillar IT38G Series II, 3.5 cy, 160 HP	\$74.50	\$72.80
		
Skid Steer Loader		
Bobcat 463, Diesel, 700 lbs, 22 HP	\$19.20	\$19.00
Bobcat S130, Diesel, 1300 lbs, 46 HP	\$29.10	\$28.70

Motor Graders		
		
Class	Age (years)	
	5	15
Caterpillar 120H, Moldboard: 12', 125 HP	\$69.50	\$67.50
w/ Scarifier w/ Ripper	\$76.00	\$73.70
Caterpillar 140H, Moldboard: 12', 165 HP	\$100.30	\$97.40
w/ Scarifier w/ Ripper	\$106.80	\$103.60
Deere 770C II, Moldboard: 12', 155 HP	\$84.30	\$82.10
w/ Scarifier w/ Ripper	\$90.80	\$88.30
Caterpillar 14H, Moldboard: 14', 220 HP	\$136.00	\$132.20
w/ Scarifier w/ Ripper	\$146.90	\$142.50
Caterpillar 16H, Moldboard: 16', 285 HP	\$179.50	\$173.90
w/ Scarifier w/ Ripper	\$190.40	\$184.20


Equipment Rates

PAVING & CHIP SEALING EQUIPMENT		
Class	Age (years)	
	5	15
		
Wheel Mounted Asphalt Paver		
Lee-Boy 1000F, Diesel, 37 HP, Screed Model: Extendable	\$67.10	\$65.60
Volgele 2111W, Diesel, 110 HP, Screed Model: HR400D	\$191.60	\$186.60
		
Crawler Mounted Asphalt Paver		
Lee-Boy 1000F, Diesel, 37 HP, Screed Model: Extendable	\$50.40	\$49.20
Caterpillar AP-655C, Diesel, 158 HP, Screed Model: 8-16B Extend-A-Mat	\$275.80	\$268.40
Pavement Broom		
Broce RJ-350, Diesel, Self-Propelled, Broom Length 96", 80HP	\$32.30	\$31.80
Pull Type Pavement Broom, 20 HP, Broom Length 84"	\$16.40	\$15.80
Chip Spreader		
Rosco SPR-H, Diesel, Self-Propelled, 152 HP, Spreader Hopper Width: 10'	\$105.20	\$102.50
Towed, Gas, with Chain Conveyor, 7 HP, Spreader Hopper Size: 7'	\$5.10	\$5.00

ROCK CRUSHING EQUIPMENT		
Class	Age (Years)	
	5	15
General Purpose Portable Belt Conveyor		
Diesel, 150 Tons/ hr, 40 HP, Conveyor Size: 18" x 50'	\$26.50	\$25.90
Radial Staker		
Diesel, 170 Tons/ hr, 38 HP, Conveyor Size: 18" x 100'	\$40.10	\$39.00
Jaw Crusher		
Electric, 75 HP, Feed Size: 15" x 36" , with drive, does not include hopper and power plant	\$30.30	\$29.00
Roll Crusher		
Electric, Double, Requires 100-200 HP, Rotor Size (Dia. x Width): 30" x 25"	\$36.60	\$34.60

Equipment Rates

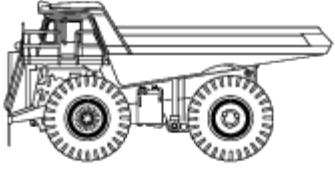
ROCK CRUSHING EQUIPMENT		
Class	Age (Years)	
	5	15
Cone Crusher		
Electric, Standard Cone, Head Size: 45" , Requires 125 HP	\$54.90	\$52.20
Heavy Duty Apron Feeders		
Electric, Size: 36" x 14" , 3 Chains, Requires 7 1/ 2 HP	\$30.20	\$28.40
Portable Screening Plants		
Double Deck: Gas, Screen Size: 5' x 10', 62 HP, Conveyor Size: 30" x 60'	\$53.80	\$52.70
Triple Deck: Diesel, Screen Size: 5' x 10', 110 HP, Conveyor Size: 42" x 50'	\$75.00	\$73.30
Gravel Plants		
Pioneer 2036-3024, Duplex, Electric, Roll Crusher Size:30" x 24" Triple, Jaw Crusher Size: 20" x 36" , Screen Size: 48" x 14', Requires 295 HP	\$150.50	\$144.20

SKIDDERS		
		
Class	Age (years)	
	5	15
Wheel Mounted Log Skidder: Diesel, Powershift		
Deere 540G III, Cable, 117 HP, Maximum Line pull: 35,029 lbs	\$85.10	\$82.90
Franklin 405 S2, Cable, 135 HP, Maximum Line pull: 40,000 lbs	\$86.80	\$84.70
Franklin 405 S2, Grapple: 100" , 135 HP, Winch-Maximum Line pull: 34,000 lbs	\$97.30	\$94.90
Caterpillar 525B, Cable, 160 HP, Maximum Line pull: 40,300 lbs	\$115.60	\$112.80
Caterpillar 525C, Grapple: 120" , 182 HP, Winch-Maximum Line pull: 39,342 lbs	\$141.40	\$137.70

TRAILERS		
Class	Age (years)	
	5	15
Off-Highway Bottom Dump Trailer		
Load King 2030, 20 cy, 30 Ton	\$34.80	\$34.40
Load King 2842, 28 cy, 42 Ton	\$36.10	\$35.60
On-Highway Bottom Dump Semi Trailer		
1 Gate, 27 Ton, 18 cy, 3 axle	\$13.20	\$12.80
Fixed Gooseneck Equipment Trailer		
3 axle, 35 Ton, Drop Deck, Deck Length: 17'	\$17.60	\$17.20
3 axle, 50 Ton, Drop Deck, Deck Length: 18'	\$18.40	\$18.00

Equipment Rates

Standard Field Office Trailer		
Trailer Size: 8' x 24'	\$2.20	\$2.20
Trailer Size: 8' x 24', includes Toilet	\$2.60	\$2.50

TRUCKS		
Class	Age (Years)	
	5	15
On-Highway Light Duty Truck: Diesel		
4x2, 3/ 4 Ton, 160 HP	\$16.60	\$15.50
4x4, 3/ 4 Ton, 160 HP	\$17.40	\$17.20
4x4, 1 Ton,	\$20.80	\$20.60
4x4, Crew Cab, 3/ 4 Ton	\$18.10	\$17.90
On-Highway Flatbed Truck: Diesel		
4x2, 200 HP, 15,000 lbs	\$31.20	\$30.60
4x2, 200 HP, 25,000 lbs	\$34.50	\$34.50
On-Highway Rear Dump: Diesel, 6x4 Axle		
315 HP, 8-10 cy	\$71.80	\$70.40
400 HP, 10-12 cy	\$89.80	\$88.00
400 HP, 12-18 cy.	\$96.90	\$94.80
		
Off-Highway Rear Dump: Diesel		
Caterpillar 769D, 22-31 cy, 487 HP	\$176.60	\$171.60
Caterpillar 773E, 34-46 cy, 671 HP	\$220.70	\$214.60
On-Highway Water Tanker		
Gas, 175 HP, 2000 gal	\$47.30	\$45.60
Diesel, 190 HP, 3000 gal	\$45.90	\$44.60
Diesel, 250 HP, 4000 gal	\$68.40	\$66.40
On-Highway Truck Tractor: Diesel, 6x4 axle		
50,000 GVW, 310 HP	\$73.00	\$71.20
75,000 GVW, 400 HP	\$88.40	\$86.40

MISCELLANEOUS		
Class	Age (years)	
	5	15
Rubber Tired Brush Cutter		
Hydro-Ax 621, 177 HP, Cutter Size:8'	\$148.80	\$143.20
Trailer Mounted Brush Chipper		
Bandit 150XP, 110 HP, Chipping Capacity: 12"	\$42.40	\$41.30
Chain Saw		
Gasoline, 20" Bar, Engine Size: 3 Cu.In.	\$2.50	\$2.40
Cordless Drill - Hand Held		
Variable 2 speed, ½ inch, 370/ 1000 RPM	\$0.60	\$0.60
Electric Motor		
Horizontal, 1200 RPM, 25 HP	\$1.90	\$1.90
Horizontal, 1200 RPM, 100 HP	\$7.00	\$6.90

Equipment Rates

MISCELLANEOUS		
Class	Age (years)	
	5	15
Generator		
Larger Generator Sets: Diesel, Open		
60 kW, 88 HP	\$34.80	\$34.70
90 kW, 130 HP	\$47.60	\$47.50
150 kW, 240 HP	\$81.90	\$81.70
300 kW, 400 HP	\$132.10	\$131.80
Small Generator Sets: Gasoline, Enclosed, & Trailer Mounted		
1000 w, 3.5 HP	\$2.70	\$2.70
3000 w, 8 HP	\$4.80	\$4.80
Seed Sprayer for Truck Mounting (truck cost not included)		
Reinco HG-10GX, Gas, 34 HP, 1250 gal	\$18.50	\$18.00
Towed Mower		
PTO, 55 HP, Blade Size: 7'	\$12.60	\$12.20
Rotary Mower		
Rear Mount, PTO, 90 HP, Blade Size: 10'	\$15.80	\$15.20
Side Mount, PTO, 50 HP, Blade Size: 5.5'	\$6.10	\$5.70
Trailer Mounted Mulcher		
Reinco M90, 115 HP, 20 Tons/ Hr, Diesel	\$41.30	\$40.50
Platform Scale/Truck Scale: Pitless & Portable		
70'x10', 60 Ton, Steel Deck	\$20.40	\$19.90
Heavy Duty Centrifugal Pump: Portable & self-priming, hoses not included.		
2", 9 HP, 9600 gph, Gas, Electric Start	\$9.80	\$9.70
3", 18 HP, 20,000 gph, Gas, Electric Start	\$14.10	\$14.00
3", 10 HP, 18,000 gph, Diesel, Manual Start	\$8.50	\$8.40
4", 45 HP, 40,000 gph, Diesel, Electric Start	\$22.70	\$22.40
Hoses:		
2" - 25'	\$0.21	N/ A
3" - 25'	\$0.32	N/ A
4" - 25'	\$0.38	N/ A
Pressure Washer Hot - Portable		
Gas, 4 gpm, 8 HP, 1000 psi	\$9.10	\$8.80
Gas, 5 gpm, 16 HP, 3000 psi	\$12.10	\$11.70
Walk-Behind Chain Trencher		
Ditch Witch 1820, 17.5 HP, Trench Width: 3.25", Trench Depth: 48"	\$12.80	\$12.60

End of Equipment Rates