D6/D6 XE

Track-Type Tractors

Technical Specifications

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

Table of Contents

Specifications 2

Engine 2
Fluid/Refill Capacities 2
D6 XE Drive Train 2
Maximum Drawbar Power 3
D6 Travel Speed 3
D6 XE Travel Speed 3
Hydraulic Controls – Maximum Operating Flows 4
Hydraulic Controls – Maximum Operating Pressures 4
Steering 4
D6/D6 XE 5
Blades 5
D6/D6 XE LGP (36 in) 6
Blades 6
D6 LGP Folding VPAT (30 in) 7
Blade 7
D6 LGP VPAT (36 in) 8
Blade 8
Track Shoes 9
Waste Handlers 9
Dimensions – Rear Attachments 10
Ripper 10
Blade Cutting Edges 10
Winches 11
Air Conditioning System 12
Advanced Cabin Filtration 12
Standards 12
Dozer Technology Features 13

Standard and Optional Equipment 14

D6/D6 XE Environmental Declaration 17

CAT®

D6/D6 XE Track-Type Tractors Specifications

Engine

Engine Model	Cat® C9.3B	
Emissions	Japan 2014 (Tier 4 Final)	
Net Power (Rated) – D6 2,200 rpm/D6 XE 1,700 rpm		
ISO 9249/SAE J1349	161 kW	215 hp
ISO 9249 (DIN)	219 mhp	
D6 Engine Power – 1,200 rpm		
ISO 14396	187 kW	251 hp
ISO 14396 (DIN)	254 mhp	
D6 XE Engine Power – 1,400 rpm		
ISO 14396	177 kW	237 hp
ISO 14396 (DIN)	241 mhp	
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Displacement	9.3 L	567 in³

- The Cat C9.3B engine features a new high pressure common rail fuel system, simplified engine system electronics, and simplified air system through the removal of the previously used exhaust gas recirculation (EGR) system.
- The XE drive train allows the engine to operate in a tighter rpm range, 1,400-1,700 rpm, which helps extend engine life and provide improved fuel economy. The increased drive train efficiency also allows the machine to provide more engine power to the ground, resulting in greater machine performance.
- Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- No derating required up to 2286 m (7,500 ft). Above this, automatic derating occurs.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrogenated 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.

  **Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

Fluid/Refill Capacities

Fuel Tank	341 L	90 gal
Diesel Exhaust Fluid (DEF) Tank	28 L	7.4 gal
Cooling System – D6	63 L	16.6 gal
Cooling System – D6 XE	77 L	20.3 gal
Engine Crankcase	24.5 L	6.5 gal
Power Train Oil – D6	148 L	39.1 gal
Power Train Oil – D6 XE	210 L	55.5 gal
Final Drives (each)	18.2 L	4.8 gal
Roller Frames (each)	65-85 L	17.2-22.5 gal
Pivot Shaft Compartment	2.8 L	0.74 gal
Hydraulic Tank Oil	60 L	15.8 gal
Hydraulic System	77 L	20.3 gal

D6 XE Drive Train

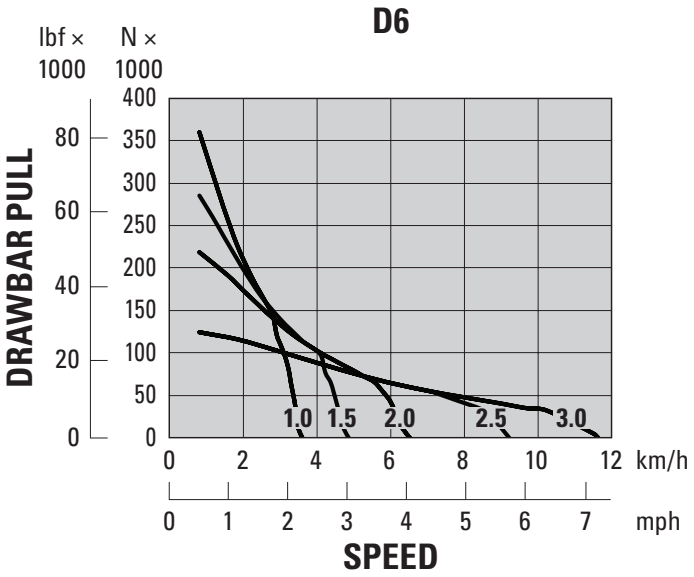
Type	Electric Drive
Electric Drive System Nominal Voltage	715 Volts

Maximum Drawbar Power

D6	114 kW	153 hp
D6 XE	119 kW	160 hp

D6 Travel Speed

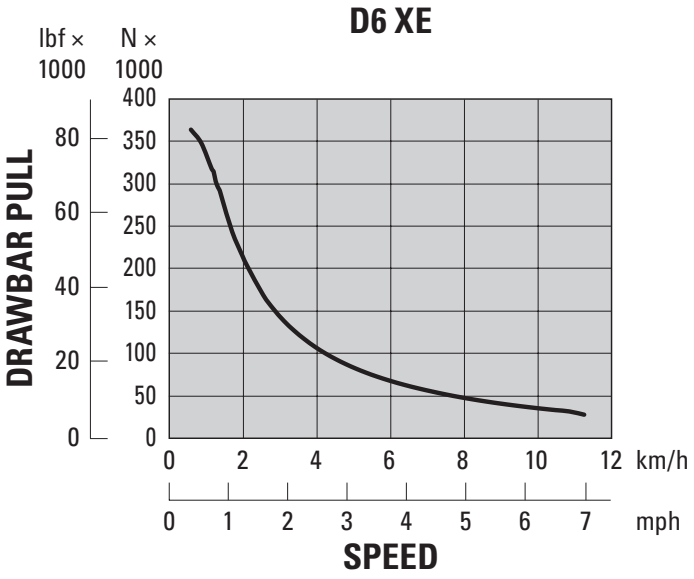
1.0 Forward	3.6 km/h	2.2 mph
1.5 Forward	4.9 km/h	3.0 mph
2.0 Forward	6.5 km/h	4.0 mph
2.5 Forward	9.2 km/h	5.7 mph
3.0 Forward	11.7 km/h	7.2 mph
1.0 Reverse	3.6 km/h	2.2 mph
1.5 Reverse	4.9 km/h	3.0 mph
2.0 Reverse	6.5 km/h	4.0 mph
2.5 Reverse	8.7 km/h	5.4 mph
3.0 Reverse	11.7 km/h	7.2 mph



NOTE: Usable pull will depend on traction and weight of machine.

D6 XE Travel Speed

1.0 Forward	3.6 km/h	2.2 mph
1.5 Forward	4.9 km/h	3.0 mph
2.0 Forward	6.5 km/h	4.0 mph
2.5 Forward	9.2 km/h	5.7 mph
3.0 Forward	11.7 km/h	7.2 mph
1.0 Reverse	3.6 km/h	2.2 mph
1.5 Reverse	4.9 km/h	3.0 mph
2.0 Reverse	6.5 km/h	4.0 mph
2.5 Reverse	9.2 km/h	5.7 mph
3.0 Reverse	11.7 km/h	7.2 mph



NOTE: Usable pull will depend on traction and weight of machine.

- The fully automatic D6 4-speed transmission, with lock-up clutch torque divider, continuously optimizes gear and engine speed for the application.
- The D6 XE Electric Drive power train has no gears to shift. The dozer automatically optimizes power and efficiency for the application and provides constant power to the ground.
- Thirty ground speed selections are available for both power trains, from 0.0 to 3.0 in 0.1 increments.

D6/D6 XE Track-Type Tractors Specifications

Hydraulic Controls – Maximum Operating Flows

	D6 (1,900 rpm engine speed*)		D6 XE (1,700 rpm engine speed*)	
Implement Pump Maximum Flow	212 L/min	56 gal/min	212 L/min	56 gal/min
Steering Pump Maximum Flow	198 L/min	52 gal/min	240 L/min	63 gal/min
Fan Pump Flow at Maximum Fan (1,550 rpm)	42 L/min	11 gal/min	—	—
Fan Pump Flow at Maximum Fan (1,625 rpm)	—	—	44 L/min	12 gal/min

*Engine speed varies with load and travel speed. A high idle/low working load speed shown.

Hydraulic Controls – Maximum Operating Pressures

Implement Relief*	27 600 ± 500 kPa	4,000 ± 73 psi
Steering – D6 (89 cc pump)**		
Electronic Relief	42 500 ± 1000 kPa	6,168 ± 145 psi
System Maximum Relief	47 800 ± 1000 kPa	6,938 ± 145 psi
Steering – D6 XE (100 cc pump)***		
Electronic Relief	44 500 ± 1000 kPa	6,459 ± 145 psi
System Maximum Relief	47 800 ± 1000 kPa	6,938 ± 145 psi

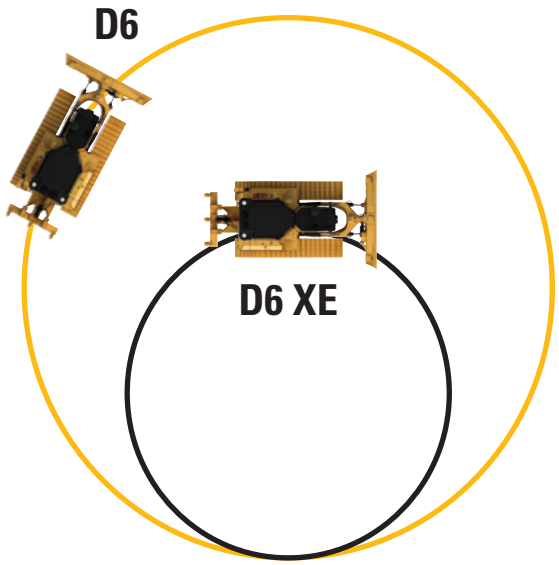
*Implement relief pressure increased over prior model D6 tractors. Consult with your dealer prior to using older vintage or third party implements.

**The same differential steering system is used for both power trains. This system maintains full power to both tracks to provide best-in-class turning with a loaded blade.

***The D6 XE power train utilizes a larger steering pump and enhanced steering controls to provide more steering power, compared to the D6 power train, to turn larger loads and to improve maneuverability. This includes the ability to counter-rotate in gear.

Steering

The D6 XE power train provides up to a 45 percent steering radius reduction compared to the D6. The D6 XE offers in-gear counter rotation for increased maneuverability.



D6/D6 XE Track-Type Tractors Specifications

D6/D6 XE

	Configuration	D6/D6 XE*	
	Operating Weight**	21 989 kg	48,477 lb
	Shipping Weight***	19 037 kg	41,969 lb
	Ground Pressure (JIS)	65 kPa	9.4 psi
	Undercarriage (Standard)	42 Section with 8 Bottom Rollers	
1	Track Gauge	1.930 m	76 in
2	Width of Track Shoe	560 mm	22 in
3	Width over Tracks	2.490 m	98 in
	Width over Trunnions	2.692 m	106 in
4	Length of Track on Ground	2.964 m	116.7 in
	Ground Contact Area	3.32 m²	5,146 in²
	Track Pitch	0.2028 m	7.9 in
	Grouser Height (Moderate Service)	0.065 m	2.6 in
	Ground Clearance	0.361 m	14.2 in
	Oscillation at Front Idler	0.103 m	4.0 in
5	Machine Height****	3.188 m	125.5 in
6	Length of Machine without Blade	4.730 m	186.2 in

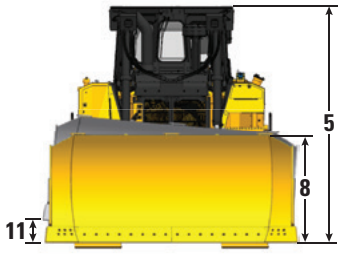
All dimensions above with HDXL undercarriage with Moderate Service shoes of maximum width for configuration and 6 SU blade.

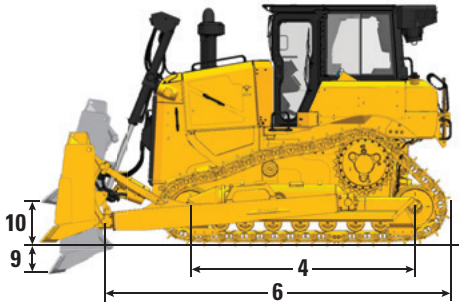
*XE power train adds 0.8 kPA (0.1 psi) and 273 kg (600 lb) to the published ground pressure and weights.

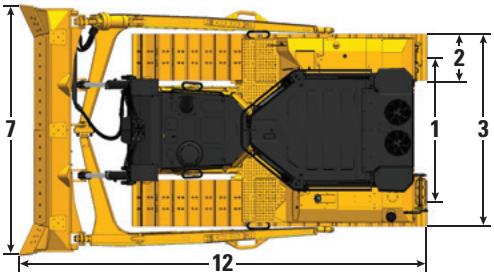
**Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, drawbar, and 75 kg (165 lb) operator.

***Shipping weight includes blade lift cylinders, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and drawbar.

****Machine height from tip of grouser to top of Product Link™ Antenna. For Sweeps, add 60 mm (2.36 in) to overall machine height. For forestry sweeps, add 83 mm (3.26 in). With Extreme Service Track Shoes add 12 mm (0.5 in). When Cat Grade with 3D antennas are installed there is no addition to machine height.







Blades

	Configuration	6 SU		6 SU Landfill	
	Capacity (ISO 9246)	5.7 m³	7.5 yd³	11.2 m³	14.6 yd³
7	Width across End Bits	3.312 m	10 ft 10.4 in	3.312 m	10 ft 10.4 in
	Width without End Bits	3.246 m	10 ft 7.8 in	3.246 m	10 ft 7.8 in
	Width across End Bits (Blade Angled)	N/A		N/A	
	Width without End Bits (Blade Angled)	N/A		N/A	
	Maximum Blade Angle	N/A		N/A	
8	Height	1.408 m	4 ft 7.4 in	2.027 m	6 ft 7.8 in
9	Dig Depth	0.502 m	19.8 in	0.502 m	19.8 in
10	Lift Height	1.180 m	46.5 in	1.180 m	46.5 in
11	Maximum Tilt at Blade Corner	0.564 m	22.2 in	0.564 m	22.2 in
	Maximum Tilt Angle	9.8 degrees		9.8 degrees	
	Pitch Adjustment	±4.2 degrees		±4.2 degrees	
12	Length of Machine (Blade Straight)	5.436 m	17 ft 10.0 in	5.436 m	17 ft 10.0 in
	Weight (Blade)	1385 kg	3,053 lb	1604 kg	3,536 lb
	Weight (Blade and Push Arms)	2620 kg	5,777 lb	2839 kg	6,260 lb

D6/D6 XE Track-Type Tractors Specifications

D6/D6 XE LGP (36 in)

	Configuration	D6/D6 XE*	
	Operating Weight**	23 911 kg	52,715 lb
	Shipping Weight***	21 165 kg	46,660 lb
	Ground Pressure (JIS)	39 kPa	5.7 psi
	Undercarriage (Standard)	45 Section with 8 Bottom Rollers	
1	Track Gauge	2.286 m	90 in
2	Width of Track Shoe	915 mm	36 in
3	Width over Tracks	3.200 m	126.0 in
	Width over Trunnions	3.491 m	137.4 in
4	Length of Track on Ground	3.247 m	127.8 in
	Ground Contact Area	5.94 m^2	9,207 in^2
	Track Pitch	0.2028 m	7.9 in
	Grouser Height (Moderate Service)	0.065 m	2.6 in
	Ground Clearance	395 mm	15.6 in
	Oscillation at Front Idler	0.116 m	4.6 in
5	Machine Height****	3.238 m	127.5 in
6	Length of Machine without Blade	5.040 m	198.4 in

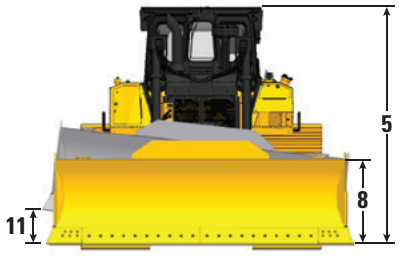
All dimensions above with HDXL undercarriage with Moderate Service shoes of maximum width for configuration and 6 S blade.

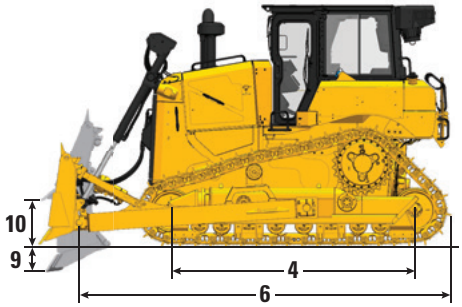
*XE power train adds 0.4 kPA (0.1 psi) and 273 kg (600 lb) to the published ground pressure and weights.

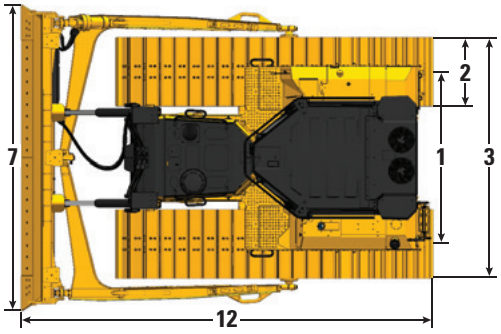
**Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, drawbar, and 75 kg (165 lb) operator.

***Shipping weight includes blade lift cylinders, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and drawbar.

****Machine height from tip of grouser to top of Product Link Antenna. For Sweeps, add 60 mm (2.36 in) to overall machine height. For forestry sweeps, add 83 mm (3.26 in). With Extreme Service Track Shoes add 12 mm (0.5 in). When Cat Grade with 3D antennas are installed there is no addition to machine height.







Blades

	Configuration	6 S LGP (36 in)		6 S LGP (36 in) Landfill	
	Capacity (ISO 9246)	3.8 m^3	5.0 yd^3	12.26 m^3	16.03 yd^3
7	Width across End Bits	4.063 m	13 ft 4 in	4.063 m	13 ft 4 in
	Width without End Bits	3.917 m	12 ft 10.2 in	3.917 m	12 ft 10.2 in
8	Height	1.108 m	3 ft 7.6 in	2.034 m	6 ft 8.04 in
9	Dig Depth	0.600 m	1 ft 11.6 in	0.600 m	1 ft 11.6 in
10	Lift Height	1.080 m	3 ft 6.5 in	1.080 m	3 ft 6.5 in
11	Maximum Tilt at Blade Corner	0.500 m	1 ft 7.7 in	0.500 m	1 ft 7.7 in
	Maximum Tilt Angle	8.8 degrees		8.8 degrees	
	Pitch Adjustment	±4.2 degrees		±4.2 degrees	
12	Length of Machine (Blade Straight)	5.483 m	17 ft 11.9 in	5.483 m	17 ft 11.9 in
	Weight (Blade)	1232 kg	2,717 lb	1528 kg	3,369 lb
	Weight (Blade and Push Arms)	2383 kg	5,255 lb	2678 kg	5,905 lb

D6 LGP Folding VPAT (30 in)

	Configuration	D6	
	Operating Weight*	23 438 kg	51,672 lb
	Shipping Weight**	20 853 kg	45,973 lb
	Ground Pressure (JIS)	52 kPa	7.5 psi
	Undercarriage (Standard)	46 Section with 8 Bottom Rollers	
	Undercarriage (Optional)	46 Section with 10 Bottom Rollers	
1	Track Gauge	2.286 m	90 in
2	Width of Standard Track Shoe***	660 mm	26 in
	Optional Maximum Track Shoe***	760 mm	30 in
3	Width over Tracks	2.946 m	116.0 in
4	Length of Track on Ground	3.355 m	132.1 in
	Ground Contact Area	4.43 m²	6,867 in²
	Track Pitch	0.2028 m	7.9 in
	Grouser Height (Moderate Service)	0.065 m	2.6 in
	Ground Clearance	395 mm	15.6 in
	Oscillation at Front Idler	0.121 m	4.8 in
5	Machine Height****	3.238 m	127.5 in
6	Length of Machine without Blade	5 134 m	202.1 in

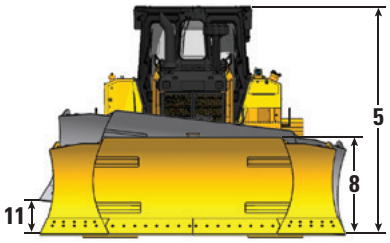
All dimensions above with HDXL undercarriage with Moderate Service shoes of standard width for configuration and Foldable VPAT blade.

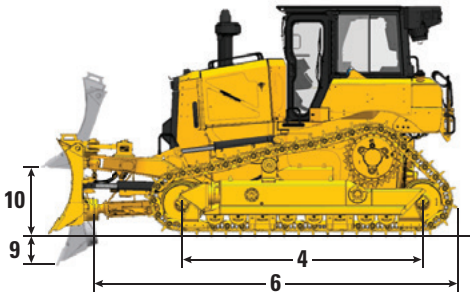
*Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, drawbar, and 75 kg (165 lb) operator.

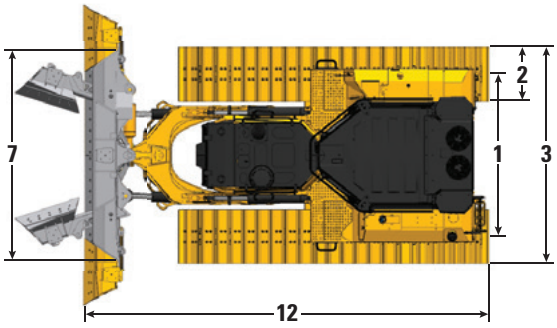
**Shipping weight includes blade lift cylinders, C-frame, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and drawbar.

***Standard track shoe width ensures 3.0 m (118 in) shipping width with blade folded. Optional 760 mm (30 in) track shoes provide lower ground pressure of 45.6 kPa (6.6 psi). Increases shipping width to 3.046 m (120.0 in).

****Machine height from tip of grouser to top of Product Link Antenna. For Sweeps, add 60 mm (2.36 in) to overall machine height. For forestry sweeps, add 83 mm (3.26 in). With Extreme Service Track Shoes add 12 mm (0.5 in). When Cat Grade with 3D antennas are installed there is no addition to machine height.







Blade

	Configuration	6 VPAT LGP Folding (30 in)	
	Capacity (ISO 9246)	5.2 m³	6.8 yd³
7	Width across End Bits	4.229 m	13 ft 10.5 in
	Width without End Bits	4.115 m	13 ft 6.0 in
	Width of Folded Blade	2.960 m	9 ft 8.5 in
	Maximum Blade Angle	24.1 degrees	
8	Height	1.312 m	4 ft 3.7 in
9	Dig Depth	0.698 m	27.5 in
10	Lift Height	1.131 m	44.5 in
11	Maximum Tilt at Blade Corner	0.659 m	26.0 in
	Maximum Tilt Angle	9 degrees	
	Pitch Adjustment	+3.1/–2.9 degrees	
12	Length of Machine (Blade Straight)	5.662 m	18 ft 6.9 in
	Length of Machine (Blade Angled)	6.643 m	21 ft 9.5 in
	Length of Machine (Blade Folded)	6.637 m	21 ft 9.3 in
	Weight (Blade)	2254 kg	4,969 lb

D6/D6 XE Track-Type Tractors Specifications

D6 LGP VPAT (36 in)

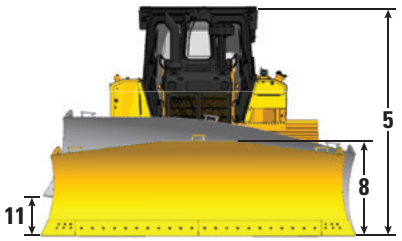
	Configuration	D6	
	Operating Weight*	23 547 kg	51,912 lb
	Shipping Weight**	21 593 kg	47,604 lb
	Ground Pressure (JIS)	38 kPa	5.5 psi
	Undercarriage (Standard)	46 Section with 8 Bottom Rollers	
	Undercarriage (Optional)	46 Section with 10 Bottom Rollers	
1	Track Gauge	2.39 m	94 in
2	Width of Maximum Track Shoe	915 mm	36 in
3	Width over Tracks	3.305 m	130.1 in
4	Length of Track on Ground	3.355 m	132.1 in
	Ground Contact Area	6.14 m²	9,517 in²
	Track Pitch	0.2028 m	7.9 in
	Grouser Height (Moderate Service)	0.065 m	2.6 in
	Ground Clearance	0.383 m	15.1 in
	Oscillation at Front Idler	0.121 m	4.8 in
5	Machine Height***	3.238 m	127.5 in
6	Length of Machine without Blade	5.134 m	202.1 in

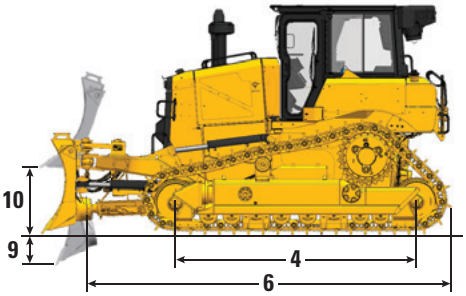
All dimensions above with HDXL undercarriage with Moderate Service shoes of maximum width for configuration and VPAT blade.

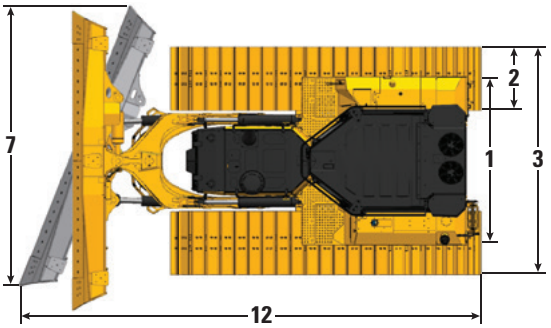
*Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, tow point, and 75 kg (165 lb) operator.

**Shipping weight includes blade lift cylinders, C-frame, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and tow point.

***Machine height from tip of grouser to top of Product Link Antenna. For Sweeps, add 60 mm (2.36 in) to overall machine height. For forestry sweeps, add 83 mm (3.26 in). With Extreme Service Track Shoes add 12 mm (0.5 in). When Cat Grade with 3D antennas are installed there is no addition to machine height.







Blade

	Configuration	6 VPAT LGP (36 in)	
	Capacity (ISO 9246)	4.86 m³	6.5 yd³
7	Width across End Bits	4.340 m	14 ft 2.9 in
	Width without End Bits	4.230 m	13 ft 10.5 in
	Width across End Bits (Blade Angled)	3.966 m	13 ft 0.1 in
	Width without End Bits (Blade Angled)	3.868 m	12 ft 8.3 in
	Maximum Blade Angle	24.1 degrees	
8	Height	1.312 m	4 ft 3.7 in
9	Dig Depth	0.698 m	27.5 in
10	Lift Height	1.131 m	44.5 in
11	Maximum Tilt at Blade Corner	0.684 m	26.9 in
	Maximum Tilt Angle	9 degrees	
	Pitch Adjustment	+3.1/–2.9 degrees	
12	Length of Machine (Blade Straight)	5.662 m	18 ft 6.9 in
	Length of Machine (Blade Angled)	6.500 m	21 ft 3.9 in
	Weight (Blade)	1617 kg	3,565 lb

Track Shoes

Some track shoes not available in all regions. Please consult your Cat dealer for details.

	Moderate Service	Extreme Service	Extreme Service Trapezoidal	Self Cleaning
Heavy Duty Extended Life (HDXL)				
D6/D6 XE – 42 Link				
560 mm (22 in)	✓	✓		
610 mm (24 in)	✓	✓	✓	
D6 LGP/D6 XE LGP (36 in) – 45 Link				
760 mm (30 in)			✓	
915 mm (36 in)	✓	✓	✓	
1000 mm (39 in)				HD/HDXL
D6 LGP VPAT– 46 Link				
660 mm (26 in)	✓			
710 mm (28 in)	✓			
760 mm (30 in)	✓			
D6 LGP VPAT – 46 Link				
760 mm (30 in)	✓			
915 mm (36 in)	✓			
Cat Abrasion™				
D6/D6 XE – 42 Link				
560 mm (22 in)	✓	✓		
610 mm (24 in)		✓		
D6 LGP/D6 XE LGP (36 in) – 45 Link				
915 mm (36 in)	✓			
D6 LGP VPAT– 46 Link				
660 mm (26 in)	✓			

Waste Handlers

	Operating Weight		Shipping Weight**	
D6/D6 XE* (560 mm/22 in shoes)	23 663 kg	52,168 lb	21 049 kg	46,405 lb
D6/D6 XE* (610 mm/24 in shoes)	23 804 kg	52,479 lb	21 190 kg	46,716 lb
D6/D6 XE* LGP (30-in)	24 069 kg	53,063 lb	21 374 kg	47,121 lb
D6/D6 XE* LGP (36-in)	25 394 kg	55,984 lb	22 823 kg	50,316 lb

Waste Handler operating weight varies by options selected. Published weights for each configuration include Heavy Duty waste undercarriage with shoes of maximum width, waste blade, fuel tank guards, guarded final drives, high debris cab, chassis bars, striker box, full fuel tank, lubricants, and 75 kg (165 lb) operator.

*XE power train adds 273 kg (600 lb) to the published weights.

**Shipping weight is calculated based on operating weight, minus blade/push arms, less operator, and 10% fuel.

D6/D6 XE Track-Type Tractors Specifications

Dimensions – Rear Attachments

Add the following to the total length of the machine when these rear attachments are installed.

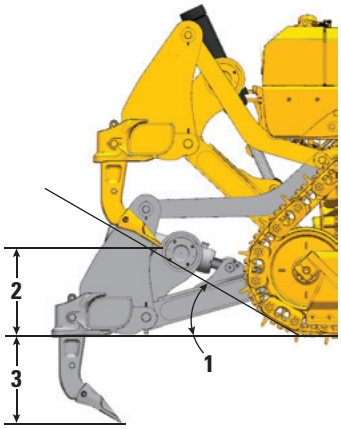
		Winch		Ripper		Drawbar or Counterweight*		Waste Striker Box	
Push Arm	D6	441 mm	17.4 in	1179 mm	46.4 in	249 mm	9.8 in	478 mm	18.8 in
	D6 LGP (36 in)	416 mm	16.4 in	1154 mm	45.4 in	224 mm	8.8 in	453 mm	17.8 in
VPAT Dozers		416 mm	16.4 in	1154 mm	45.4 in	224 mm	8.8 in	453 mm	17.8 in

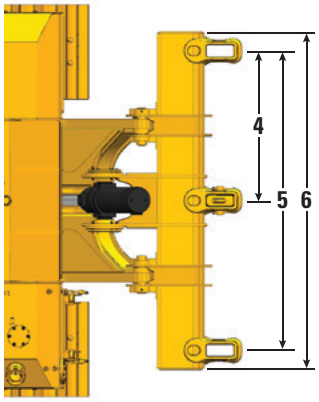
*Drawbar weight 119 kg (262 lb), 331 kg (730 lb) for each counterweight slab. The new D6 dozer design provides improved balance. Counterweights are only recommended with heavier aftermarket blades.

Ripper

	Type	Fixed Parallelogram	
	Number of Pockets	3	
1	Ramp Angle	31 degrees	
2	Maximum Clearance Raised (under tip)	664 mm	26.1 in
3	Maximum Penetration	571 mm	22.5 in
4	Pocket Spacing	1000 mm	39.4 in
5	Shank Gauge	2000 mm	78.8 in
	Shank Section	74 mm × 175 mm	2.9 in × 6.9 in
6	Overall Beam Width	2190 mm	86 in
	Beam Cross Section	219 mm × 304 mm	8.8 in × 12 in
	Maximum Penetration Force*	68.8 kN	15,470 lbf
	Pryout Force	126 kN	28,350 lbf
	Ripper Weight		
	With One Shank	1550 kg	3,417 lb
	Each Additional Shank	73 kg	161 lb

Specifications based on D6 tractor configuration with Heavy Duty undercarriage, MS shoes, and straight ripper shanks.
*May vary based on configuration and machine weight.





Blade Cutting Edges

Cat FirstCut™ cutting edges are available for Semi-Universal (SU) blades. FirstCut edges provide superior penetration in tough compacted, rocky or frozen soils resulting in up to 35% larger payload mass and up to 17% improvement in productivity. Consult with your Cat dealer for more benefits and details.

Winches

The D6 and D6 XE expand industry-leading winch capability with the introduction of available high pressure (27 600 kPa/4,000 psi) hydraulics capable of powering high performance hydraulic winches. These winches provide exceptional controllability for applications that require precise load placement. The D6 retains compatibility with PTO-driven winches for maximum power and efficiency. Winches of both styles are available from Caterpillar for factory or dealer installation, and integrate with the tractor's electronic and control system.

Tractor Model	**D6**				**D6 XE**	
Winch model	PA56 (Low Speed)		PA56 (Standard Speed)		PA85	
Winch Drive	PTO Mechanical		PTO Mechanical		Hydraulic	
Control	Electrical		Electrical		Electrical	
Operating Weight*	1582 kg	3,487 lb	1582 kg	3,487 lb	1530 kg	3,374 lb
Oil Capacity	43.5 L	11.5 gal	43.5 L	11.5 gal	19 L	5 gal
Increased Tractor Length						
Standard/LGP	516 mm	20.4 in	516 mm	20.4 in	516 mm	20.4 in
LGP (36 in)	365 mm	14.4 in	365 mm	14.4 in	365 mm	14.4 in
Drum Diameter	254 mm	10 in	254 mm	10 in	254 mm	10 in
Rope Diameter						
Recommended	22 mm	0.88 in	22 mm	0.88 in	22 mm	0.88 in
Optional	25 mm	1.0 in	25 mm	1.0 in	25 mm	1.0 in
Drum Working Capacity						
22 mm (0.88 in)	55 m	180 ft	55 m	180 ft	55 m	180 ft
25 mm (1.0 in)	50 m	163 ft	50 m	163 ft	50 m	163 ft
Cable Ferrule Size (O.D. × Length)	54 mm × 67 mm	2.1 in × 2.6 in	54 mm × 67 mm	2.1 in × 2.6 in	54 mm × 67 mm	2.1 in × 2.6 in
Maximum Bare Drum						
Line Pull**	399 kN	89,800 lb	399 kN	89,800 lb	378 kN	85,000 lb
Line Speed***	17 m/min	57 ft/min	33 m/min	107 ft/min	23 m/min	77 ft/min
Maximum Full Drum****						
Line Pull**	399 kN	89,800 lb	399 kN	89,800 lb	220 kN	49,500 lb
Line Speed***	29 m/min	94 ft/min	55 m/min	179 ft/min	40 m/min	132 ft/min

*Operating Weight includes winch, mounting hardware, oil, and recommended wire rope.

**Maximum line pull is lesser of calculated line pull at maximum tractor PTO output torque/hydraulic power or catalog breaking strength of maximum size new IWRC IPS wire rope.

***Maximum line speed is calculated on-load line speed at maximum tractor engine PTO speed or maximum hydraulic power.

****Full drum as defined by SAE J1158.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg of refrigerant which has a CO_2 equivalent of 1.946 metric tonnes.

Advanced Cabin Filtration

Operator Cabin

- Distributed HVAC ducting with automatic temperature control and blower speed provides ultimate operator comfort with less user input.
- Reduced maintenance of the condenser core with automatic reversing fans.
- Cat Advanced Cabin Filtration is standard.

Cat Advanced Cabin Filtration

- Operator protection from respirable particulate (0.3-10 micron size).
- Sustainably pressurized cab (US Silica compliant).
- Reduced maintenance with longer life, high efficiency filters.
- Protection for all cabin components: electronics, etc.
- Helps meet U.S. Occupational Safety and Health Administration Silica Rule Table 1 requirements for operator cabs.
- Multi-tiered filter offerings for optional efficiency upgrades. Contact Cat dealer for availability.
  - MERV 16 – Standard Equipment
  - HEPA
  - Activated Carbon + HEPA
  - ABEK1 + HEPA

Standards

Rollover Protective Structure (ROPS)/ Falling Object Protective Structure (FOPS)

- ROPS meets ISO 3471:2008, FOPS meets ISO 3449:2005 Level II.

Brakes

- Brakes meet the International Standard ISO 10265:2008.

Sound Level Information

Hearing protection may be needed when the machine is operated with an open operator station, in a noisy environment, with a cab that is not properly maintained, or when the doors and windows are open for extended periods of time.

Sound Level			Test Method
Operator Sound Pressure Level	D6	77 dB(A)*	"ISO 6396:2008"(1)
	D6 XE	76 dB(A)*	
Exterior Sound Power Level	D6	113 dB(A)	"ISO 6395:2008"(2)
		111 dB(A)*	"ISO 6395:1988"(2)
	D6 XE	111 dB(A)	"ISO 6395:2008"(2)
		111 dB(A)*	"ISO 6395:1988"(2)

*Including machines required to meet applicable regional regulations of Ukraine, United Kingdom, and Countries that Adopt the "EU Directives"; or machines equipped with the sound-suppression package.

(1) The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.

(2) The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

The sound levels listed above include both measurement uncertainty and uncertainty due to production variation.

Dozer Technology Features

Assist technology features help operators of varied experience levels get the job done faster and more accurately. Grade and Command offerings help further enhance your productivity, efficiency and job site safety.

The cab is Third Party Grade Control Ready, equipped with CAN interface, harness pass throughs and mounting features to make it easier to install the grade control system of your choice.

ARO with Assist Package	
Attachment Ready Option (ARO)	ARO provides wiring and mounting provisions for dealer installation of Grade with 3D, AccuGrade, UTS, or other grade control systems.
Cat Grade with Slope Assist™	Slope Assist automatically maintains pre-established blade position without a GNSS/GPS signal – no additional hardware or software needed. For machines with 3D, operators can easily switch back and forth from full 3D automatics to Slope Assist.
Steer Assist	Steer Assist automates track and blade tilt steering. Helps reduce operator fatigue by automatically maintaining straight travel with light loads or heavy loads on flat ground and cross slopes. No GNSS/GPS required.
Stable Blade	Stable Blade works seamlessly with operator inputs to help produce a smoother surface when operating manually.
Slope Indicate	Slope Indicate is included in the main machine display and shows side slope and uphill/downhill grades to help operators with slope work.
Blade Load Monitor	Blade Load Monitor gives you real-time feedback on current load versus the optimal blade load based on your ground conditions. Actively monitors machine load and track slip to help you reach optimal pushing capacity.[1]
Traction Control	Traction Control automatically reduces track slip to save you time, fuel and track wear.[1]
AutoCarry™	AutoCarry automates blade lift to help you maintain consistent blade load and help reduce track slip.[1]
Grade 3D with Assist Package	
Includes all features from the ARO with Assist Package listed above, plus:	
Cat Grade with 3D	Factory integrated Cat Grade with 3D uses GNSS/GPS to control the blade so you can get to design plan faster. Low profile antennas are integrated into the cab roof and GNSS/GPS receivers are mounted inside the cab for better protection.[2]
Steer Assist 3D	Automatically follow guidance lines from site design plans (or Infield designs) under light load or heavy load.[2]
Dedicated Touchscreen Grade Display	Full-color Grade operator interface is intuitive and easier to use. The 254 mm (10 in) touchscreen uses an Android OS platform and operates like a smart phone.
Remote Control/Cat Command	
Remote Control Ready Cab (Standard)	Cab is Remote Control Ready from the factory with external connector for dealer installation of the Cat Command remote control system.
Command for Dozing[2] (Optional)	Cat Command remote control technology provides full dozer maneuverability from a safe distance when working in hazardous environments. Command offers the choice of line-of-sight consoles or long-distance operator stations (non-line-of-sight).

[1]Feature not operational indoors or in areas where a GNSS/GPS signal is not available.

[2]Requires Software Enabled Attachment (SEA) installation when not configured from the factory.

Note: Grade and Assist technologies, except Slope Indicate, Blade Load Monitor and Traction Control, are not compatible with Angle blades or specialty blades from Cat Work Tools. Please consult with your Cat dealer for details.

D6/D6 XE Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
POWER TRAIN		
Fully-automatic 4-speed Transmission with Lock Up Clutch (LUC) torque divider	D6	
XE Electric Drive Power Train	D6 XE	
Differential Steering System	✓	
Cat C9.3B diesel engine with turbo, with engine mounted aftertreatment to meet Japan 2014 emission standards	✓	
Cat C9.3B diesel engine with thermal shield and liquid cooled turbo		✓
Engine air precleaner with dust ejection	✓	
Engine air precleaner with dust ejection and screen for high debris applications		✓
Double reduction planetary final drives	✓	
Double reduction planetary final drives, guarded		✓
Automatic ether starting aid	✓	
Electric fuel priming pump	✓	
Electronic parking brake	✓	
Engine air filter with electronic service indicator	✓	
Fuel water separator with electronic service indicator	✓	
Jacket water heater, 110V OR 220V based on sales region	✓	
DEF System – Electronic fill indicator, heated lines/tank	✓	
CAT TECHNOLOGY		
Slope Indicate	✓	
ARO with Assist Package – Attachment Ready Option (ARO) – Slope Assist – Steer Assist – Stable Blade – Blade Load Monitor – Traction Control – AutoCarry		✓
Grade 3D with Assist Package – Full-color 10-inch (254 mm) touchscreen grade display – Steer Assist 3D – Grade receivers and antennas – Grade Software Enabled Attachment (SEA) – ARO with Assist package features		✓
Third Party Grade Control Ready Cab	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Product Link™, Cellular	✓	
Product Link – Dual Cellular/Satellite		✓

	Standard	Optional
CAT TECHNOLOGY *(continued)*		
Remote Flash/Troubleshoot	✓	
Grade Connectivity		✓
Operator ID	✓	
Machine Security – Passcode	✓	
Machine Security – Bluetooth		✓
Remote Control Ready	✓	
Cat Command for Dozing		✓
OPERATOR ENVIRONMENT		
Fully redesigned Premium cab with Integrated ROPS and FOPS, single pane door glass, sliding windows, with Cat Advanced Cabin Filtration	✓	
High Debris cab, fully redesigned with Integrated ROPS and FOPS, impact resistant polycarbonate doors, solid side windows for improved sealing, powered precleaner with Cat Advanced Cabin Filtration for improved performance and filter life		✓
Fully redesigned heavy duty cab with Integrated ROPS and FOPS, impact resistant polycarbonate doors, sliding windows, with Cat Advanced Cabin Filtration		✓
Full-color 254 mm (10 inch) liquid crystal touch screen display	✓	
Integrated rearview camera	✓	
Joystick control – ARO		✓
Adjustable operator controls/armrests	✓	
Cloth seat with mechanical adjustable lumbar support	✓	
Deluxe leather heated/ventilated seat with electronic adjustable lumbar support		✓
Cab mounted modular HVAC system with automatic reversing fans. Automatic temperature and blower control with distributed ducting.	✓	
Cat Advanced Cabin Filtration with powered precleaner with MERV 16, HEPA, and Activated Charcoal options		✓
Viscous cab mounts for improved ride	✓	
Entertainment radio with Bluetooth® and microphone	✓	
USB and AUX ports	✓	
Enhanced Cab Storage Solutions	✓	
Adjustable foot pegs	✓	
Quick opening floor plate		✓
Screen ready, side and rear	✓	
Operator presence switch	✓	

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
UNDERCARRIAGE		
Structurally improved track roller frame designed to allow conversion between Heavy Duty and Cat Abrasion™	✓	
Undercarriage with 8 bottom rollers	✓	
Undercarriage with 10 bottom rollers for fine grading applications		✓
Waste undercarriage		HDXL only
Partially guided undercarriage		✓
Fully guided undercarriage		✓
Heavy Duty (HDXL with DuraLink™)	✓	
Cat Abrasion™ track		✓
Moderate service track shoes	✓	
Extreme service track shoes		✓
Carrier roller	✓	
Hydraulically adjustable track	✓	
Replaceable sprocket rim segments	✓	
BLADES		
Semi-Universal, ARO mounts		✓
Semi-Universal, Waste		✓
Straight blade, LGP with ARO mounts		✓
Straight blade, LGP Waste		✓
VPAT, LGP with ARO mounts		✓
VPAT, LGP (36 in) with ARO mounts		✓
Foldable VPAT, LGP with ARO mounts		✓
Cat FirstCut cutting edges (SU blades)		✓
HYDRAULICS		
Load sensing hydraulics – dozer lift and tilt	✓	
Independent steering hydraulics	✓	
Ripper ready rear hydraulics	D6	
Ripper and winch ready rear hydraulics	D6 XE	D6
Single axis ripper control	✓	
Dual axis ripper/winch control		✓
Hydraulic automatically reversing, zero speed capable cooling fan	✓	
Electronic Hydraulic lockout switch	✓	

	Standard	Optional
ELECTRICAL		
Lights – 6 LED	✓	
Premium lights – 12 LED for 360 degree light coverage		✓
Backup alarm	✓	
Integrated beacon warning light (does not impact shipping height)		✓
Communication radio ready kit		✓
Converter: 15 Amp, 12V outlet	✓	
Diagnostic connector	✓	
Forward warning horn	✓	
Fuse panel and main power relay located inside cab	✓	
SERVICE AND MAINTENANCE		
30-minute cab removal	✓	
Ecology drains	✓	
Ecology drains with high speed oil power train and engine oil change		✓
Ground level service center with remote electrical disconnect, access light, secondary shutdown switch and hour meter	✓	
Fuel tank, 341 L (90 gal)	✓	
Fuel tank, 341 L (90 gal), fast fill ready	D6 XE	D6
Wiggins style fast fill nozzle		✓
Mounting provision for grease gun and fire extinguisher	✓	
Perforated radiator doors, louvered and hinged	✓	
Rear access ladder	✓	
Removable engine enclosures, perforated and hinged, with under hood work light	✓	
Scheduled Oil Sampling (S·O·S℠) ports	✓	
Shovel holder	✓	
Maintenance free equalizer bar	✓	
Certified ISO 14567 tie off points (3)	✓	
Vandalism protection for fluid compartments and battery box	✓	
Dedicated shipping tie downs, rear	✓	

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
BATTERIES, STARTERS, ALTERNATORS AND FLUIDS		
150 Amp alternator	✓	
150 Amp ducted alternator		✓
Heavy duty batteries, two maintenance-free 12V (1,400 CCA) (24V system)	✓	
Heavy duty, 24V starter	✓	
Extended Life Engine coolant, –37° C (–35° F)	✓	
Extended Life Arctic engine coolant, –51° C (–60° F)		✓
ATTACHMENTS		
Drawbar	✓	
High lift multi-shank ripper with straight or curved shanks		✓
Lightweight rear tow point		✓
Striker bar box		✓
Counterweights (not recommended unless using heavier aftermarket blades)		✓
PACCAR PA56 winch, low speed PTO		D6
PACCAR PA85 winch, variable speed hydraulic		✓
PACCAR PA56 winch, standard speed PTO		D6 Dealer only
Allied H6H winch, variable speed hydraulic		Dealer only
Fairlead Assembly; 3-roller, fits PA55, PA56, and PA85 winches		✓
Retrofit kit (4th roller); fits PA55, PA56, and PA85 winches		✓

	Standard	Optional
GUARDING AND SCREENS		
Bottom guards	✓	
Heavy duty sealed bottom guards		Push Arm only
Heavy duty sealed quick access bottom guards*		Push Arm only
Standard duty grab handles	✓	
Heavy duty grab handles		✓
Open Sweeps guarding		✓
Forestry Sweeps guarding with full canopy		✓
Hinged rear screen		✓
Hinged side screens		✓
Fuel tank guard (with or without fast fill)		✓
Guards for premium lights, front and side		✓
Machine seals for high debris		✓
Front and rear striker bars		Dealer only

*Please check with your Cat dealer for availability dates.

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

- The Cat® C9.3B engine meets Japan 2014 (Tier 4 Final) emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrogenated 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

  **Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg (2.99 lb) of refrigerant which has a CO_2 equivalent of 1.946 metric tonnes (2.145 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

For machines required to meet applicable regional regulations of Ukraine, United Kingdom, and Countries that adopt the "EU Directives".

Operator Sound Pressure Level (ISO 6396:2008) – D6 – 77 dB(A)

Operator Sound Pressure Level (ISO 6396:2008) – D6 XE – 76 dB(A)

Exterior Sound Power Level (ISO 6395:1988) – D6 – 111 dB(A)

Exterior Sound Power Level (ISO 6395:1988) – D6 XE – 111 dB(A)

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.
  - Fully automatic D6 continuously adjusts for maximum efficiency and power to the ground
  - Electric Drive D6 XE provides the highest level of productivity and significantly lower fuel consumption
  - Assist technology features help operators work faster and more accurately to save time, materials and fuel
  - Boost productivity up to 50% with Cat technologies like Cat Grade with Slope Assist and Cat Grade with 3D
  - Remote Flash and Remote Troubleshoot

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	76.59%
Iron	9.47%
Nonferrous Metal	2.18%
Mixed Metal	0.24%
Mixed-Metal and Nonmetal	2.67%
Plastic	0.65%
Rubber	0.83%
Mixed Nonmetallic	0.02%
Fluid	0.53%
Other	0.74%
Uncategorized	6.08%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability –Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary.

Recyclability – 98%

オフロード法２０１４年
基準適合

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

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

Based on the Labor, Safety and Health Laws in Japan, employer of small construction equipment are required to provide specific training for all operators on machines with machine weight less than 3 metric ton. For machines greater than 3 metric ton, operator needs to obtain operator license certification from a Government approved registered training school.

AEXQ2545-03 (09-2022)
Replaces AEXQ2545-02
Build Number: 20B
(Japan)