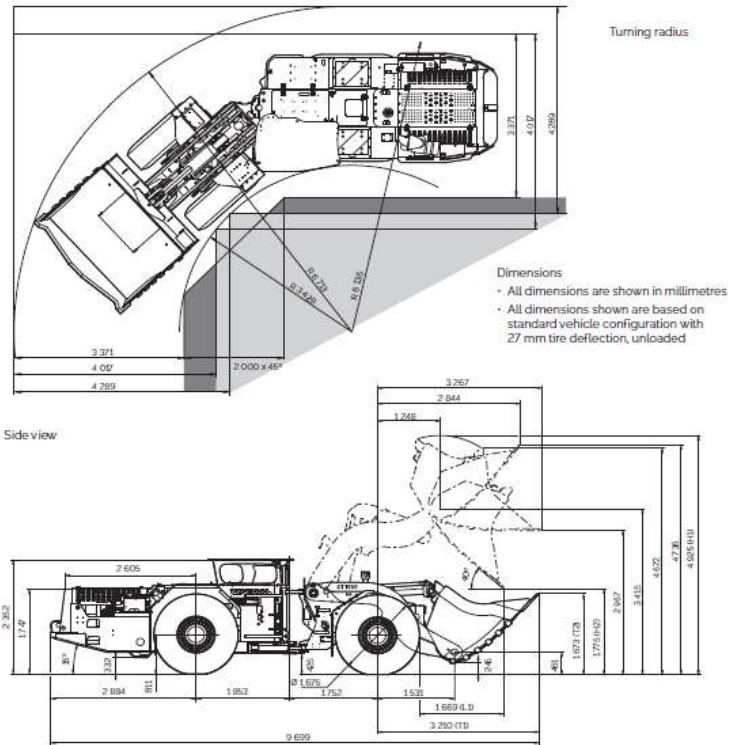


Technical specifications

Measurements and weights



Bucket data

		STANDARD						EOD					
		S/D	4.5	4.2	3.8	3.6	3.3	4.5	4.2	3.8	3.6	3.3	3.0
Volume, nominal heaped (m ³)		2.0	2.2	2.4	2.6	2.8	3.0	2.0	2.2	2.4	2.6	2.8	3.0
Maximum material density (t/m ³)		W	2.488	2.488	2.488	2.488	2.490	2.548	2.548	2.548	2.548	2.548	2.548
Width, bucket (mm)													
Trimming position, axle centre line to bucket tip (mm)	T1	3,268	3,204	3,155	3,098	3,054	3,014	3,379	3,295	3,249	3,170	3,113	3,079
Trimming position, ground bucket tip (mm)	T2	1,726	1,663	1,614	1,568	1,535	1,475	1,890	1,770	1,725	1,646	1,585	1,549
Reach dimension (mm)	L1	1,734	1,662	1,610	1,547	1,500	1,456	1,821	1,774	1,735	1,646	1,585	1,548
Raised position, back height, max (mm)	H8	4,007	4,000	4,095	4,007	4,078	4,079	4,958	4,942	4,858	4,795	4,754	4,742
Raised position, bucket tip, height (mm)	H2	1,708	1,765	1,811	1,863	1,903	1,940	1,677	1,703	1,738	1,814	1,869	1,903

D8R

Track-Type Tractor



Engine		Cat® 3408C DITA		Weights	
Engine Model				Operating Weight - Standard (SU)	37 557 kg 82,800 lb
Net Power (Maximum)				Operating Weight - Standard (U)	38 192 kg 84,200 lb
ISO 9249/SAE J1349	239 kW	320 hp		Operating Weight - LBP (SU)	35 562 kg 78,400 lb
ISO 9249/SAE J1349 (DIN)		325 hp			

Technical specifications

Grade performance

Standard configuration, empty bucket

%	Grade	0.0	2.0	4.0	6.0	8.0	10.0	12.5	14.3	16.0	18.0	20.0	25.0
Ratio	Grade	—	—	—	—	1:2	1:1	1:1	1:1	—	—	1:1	1:1
Kts/h	1st gear	5.0	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.1	3.9
	2nd gear	8.9	8.5	8.3	8.0	7.8	7.6	7.1	6.8	6.5	6.2	5.8	4.7
	3rd gear	15.8	14.7	13.8	12.8	11.6	10.2	7.9	5.9	4.4	—	—	—
	4th gear	26.7	23.3	18.9	12.7	—	—	—	—	—	—	—	—

3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 1:7 grade.

Grade performance

Standard configuration, loaded bucket

%	Grade	0.0	2.0	4.0	6.0	8.0	10.0	12.5	14.3	16.0	18.0	20.0	25.0
Ratio	Grade	—	—	—	—	1:2	1:1	1:1	1:1	—	—	1:1	1:1
Kts/h	1st gear	4.9	4.8	4.8	4.8	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.4
	2nd gear	8.7	8.3	7.9	7.6	7.2	6.7	6.1	5.4	5.1	4.1	3.3	—
	3rd gear	15.1	13.9	12.4	10.6	8.2	—	—	—	—	—	—	—
	4th gear	24.9	19.1	—	—	—	—	—	—	—	—	—	—

3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 1:7 grade.



D8R Track-Type Tractor Specifications

Engine

Engine Model	Cat 3406C DITA*	
Engine Power (Maximum)		
SAE J1995	252 kW	338 hp
ISO 14396	247 kW	331 hp
ISO 14396 (DIN)	335 hp	
Net Power (Rated**)		
ISO 9249/SAE J1349	226 kW	303 hp
ISO 9249/SAE J1349 (DIN)	307 hp	
80/1269/EEC	226 kW	303 hp
Net Power (Maximum)		
ISO 9249/SAE J1349	239 kW	320 hp
ISO 9249/SAE J1349 (DIN)	325 hp	
80/1269/EEC	239 kW	320 hp
Bore	137 mm	5.4 in
Stroke	165 mm	6.5 in
Displacement	14.6 L	893 in ³

*Note: Capable of meeting the equivalent of non-current U.S. EPA Tier 1 or EU Stage I emission standards.

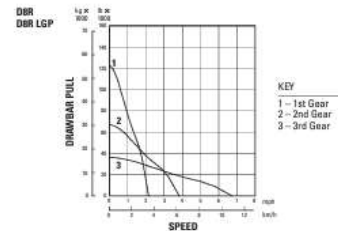
**Rated speed 2,100 rpm.

• Net power advertised is the power available at the flywheel when engine is equipped with a fan at maximum speed, air cleaner, muffler and alternator.

• No deratings required up to 3800 m (12,500 ft) altitude.

Transmission

1.0 Forward	3.5 km/h	2.2 mph
2.0 Forward	6.2 km/h	3.9 mph
3.0 Forward	10.8 km/h	6.7 mph
1.0 Reverse	4.7 km/h	2.9 mph
2.0 Reverse	8.1 km/h	5.0 mph
3.0 Reverse	13.9 km/h	8.6 mph



NOTE: Usable pull will depend upon weight and traction of equipped tractor.

Service Refill Capacities

Fuel Tank	625 L	165 gal
Cooling System	92 L	24.3 gal
Engine Crankcase	32.5 L	8.6 gal
Power Train	144 L	38 gal
Final Drives (each)	13.5 L	3.6 gal
Pivot Shaft	40 L	2.6 gal
Hydraulic Tank	72 L	19 gal

Weights

Operating Weight - SU	17 557 kg	82,800 lb
Operating Weight - U	38 192 kg	84,200 lb
Operating Weight - A	38 374 kg	84,600 lb
Operating Weight - LGP SU	35 562 kg	78,400 lb
Shipping Weight - Standard	28 213 kg	62,200 lb
Shipping Weight - LGP	29 302 kg	64,600 lb

• Standard operating weight includes lubricants, coolant, full fuel tank, standard track, Integrated ROPS cab, air conditioner, hydraulic controls, blade, SS-Ripper and operator.

• LGP operating weight includes lubricants, coolant, full fuel tank, standard track, Integrated ROPS cab, air conditioner, hydraulic controls, SU-Blade, drawbar and operator.

• Shipping weight includes lubricants, coolant, 10% fuel tank, standard track, Integrated ROPS cab, air conditioner and hydraulic controls.

Undercarriage - Standard

Shoe Type	Moderate Service	
Width of Shoe	610 mm	24 in
Shoes/Side	44	
Track Rollers per Side	8	
Grouser Height	78 mm	3.1 in
Pitch	216 mm	8.5 in
Ground Clearance	613 mm	24.1 in
Track Gauge	2083 mm	82 in
Length of Track on Ground	3206 mm	126 in
Ground Contact Area	3.91 m ²	6,060 in ²
Ground Pressure (ISO 16754)	95.1 kPa	13.8 psi
Standard - SU	84.7 kPa	12.3 psi
Standard - U	86.2 kPa	12.5 psi
Standard - A	86.6 kPa	12.6 psi

Technical specifications

● Standard ○ Option

Features

Safety

- Spring-applied, hydraulic release (SAHR) brakes
- ISO ROPS and FOPS certified operator compartment with door interlock (when cabin door is opened, the brakes are applied and steering and bucket/boom movement are blocked)
- Great operator visibility
- Locking pins for center hinge and boom
- Three strategically located emergency stops
- Front and rear cameras

Comfort

- Epiroc footbox to expand leg room
- Rubber-mounted cab to reduce vibration and noise
- Ride control boom suspension keeps the bucket stable while tramming and offers smoother ride
- Ergonomic joysticks
- Comfortable air suspended seat

Sustainability

- Automatic de-clutch to simplify and speed up dumping operation, reduce fuel consumption and increase components service life, especially when loading into trucks
- Durable power-train components
- Fuel-efficient, clean-burning EPA Tier 3/EU Stage IIIA engine
- Rock-tough catalytic purifier
- L and M V-tube core radiator

Productivity

- Ride control to provide a smooth ride, allowing to travel at higher speed and reducing spillage
- Load weighing system

Serviceability

- Easy maintenance with centrally located service point
- Anti-skid materials at service access points
- Central lubrication

Specifications

Capacities		
Tramming capacity*		10 000 kg
Breakout force, hydraulic		17 900 kg
Breakout force, mechanical		13 900 kg
*Tramming capacity with EOD bucket 9 000 kg		
Motion times		
Boom raising		9.0 sec
Boom lowering		6.0 sec
Dumping		2.1 sec
Weights (standard empty vehicle)		
Approximate weight		27 200 kg
Axle load, front end		13 700 kg
Axle load, rear end		13 500 kg

Engine

	Standard	Alternative *
Brand/model, Cummins QSL9	EPA Tier 3/EU Stage IIIA	Tier 4 Interim/EU stage IIIb
Power rating at 2 000 rpm	186 kW/250 hp	198 kW/265 hp
Maximum torque at 1 400 rpm	1 085 Nm	1 085 Nm
MSHA Part 7 ventilation rate	265 m ³ /min	297 m ³ /min
MSHA Part 7 particulate index	340 m ³ /min	34 m ³ /min

Standards: Dry type air filter, catalytic purifier and silencer, exhaust heat protection, cooling package with tube type radiator, remote engine oil and cooling fluid drain.
Alternative: Different engine, coolers, different aftertreatment system (dry type air filter with cyclone functionality)
*Please note! Requires ultra low sulphur diesel and low ash engine oil.

Fuel

Fuel tank capacity: 284 litres	●
Fuel filtration, primary, including water trap: 7 µm	●
Fuel filtration, secondary: 3 µm	●

Transmission

Automatic power shift with integrated converter, fully modulated 4 speed shifting, forward/reverse with de-clutch function	●
Brand/model, Funk DF-250	●

Axles

Brand/model, Kessler D302	●
Degree of rear axle oscillation: 16° 18' on each side	●
Differentials: front, limited slip	●
Differentials: rear, no slip	●

Brakes

Fully enclosed, force-cooled, multiple wet discs at each wheel end	●
Service/parking/emergency brakes: SAHR	●
Brake apply after 3 sec in neutral	○
Brake release retriever tow hook	○

Tires

Tubeless tire design for underground mine service	●
Tire size front and rear: 18.00R25 (std/ckd)	○
Tire size front and rear: 18.00R25 (broaded)	○

*As applications and conditions vary, Epiroc recommends that the user consults with tire suppliers to obtain the optimum tire selection.



D8R Track-Type Tractor Specifications

Undercarriage – LGP

Shoe Type	Moderate Service
Width of Shoe	965 mm 38 in
Shoes/Side	44
Track Rollers per Side	8
Grouser Height	78 mm 3.1 in
Pitch	216 mm 8.5 in
Ground Clearance	613 mm 24.1 in
Track Gauge	2337 mm 92 in
Length of Track on Ground	3206 mm 126 in
Ground Contact Area	6.19 m ² 9,593 in ²
Ground Pressure (ISO 16754)	50.7 kPa 7.4 psi

Blades

SU – Blade Capacity	8.70 m ³	11.38 yd ³
SU – Blade Width	3937 mm	155.0 in
U – Blade Capacity	11.70 m ³	15.30 yd ³
U – Blade Width	4262 mm	167.8 in
A – Blade Capacity	4.70 m ³	6.15 yd ³
A – Blade Width	4978 mm	196.0 in
SU LGP – Blade Capacity	8.50 m ³	11.12 yd ³
SU LGP – Blade Width	4400 mm	173.2 in

• Blade capacities are measured to recommended practice as to SAE J1265.

Ripper

Type	Adjustable Parallelgram	Single Shank
Number of Pockets	1	
Weight with Standard Single Shank	4085 kg	9,006 lb
Maximum Penetration	1135 mm	44.7 in
Maximum Penetration Force	127.4 kN	28,641 lbf
Pryout Force	222.8 kN	50,087 lbf
Type	Adjustable Parallelgram	Multi-Shank
Number of Pockets	3	
Weight with Three Shanks	4877 kg	10,572 lb
Overall Beam Width	2464 mm	97 in
Maximum Penetration	780 mm	30.7 in
Maximum Penetration Force	134.2 kN	27,971 lbf
Pryout Force	227.9 kN	51,234 lbf

Hydraulic Controls

Pump Type – Implements	Variable Displacement Piston
Pump Capacity at	7000 kPa 1,015 psi
RPM at Rated Engine Speed	2,100 rpm
Pump Output	239 L/min 63.1 gal/min
Lift Cylinder Flow	325 L/min 85.9 gal/min
Tilt Cylinder Flow	170 L/min 44.9 gal/min
Ripper Cylinder Flow	190 L/min 50.2 gal/min

Hydraulic Controls – Main Relief Valve

Pressure Setting	24 100 kPa 3,500 psi
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Hydraulic Controls – Maximum Operating Pressure

Bulldozer, Lift	24 100 kPa 3,500 psi
Bulldozer, Tilt	24 100 kPa 3,500 psi
Ripper, Lift	24 100 kPa 3,500 psi
Ripper, Tilt	24 100 kPa 3,500 psi
Steering	38 000 kPa 5,511 psi

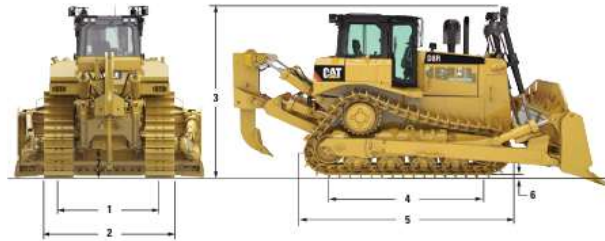
Standards

ROPS/FOPS	Integrated ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008 FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II
Brakes	Brakes meet the standard ISO 10265:2008
Cab	Meets the appropriate standards as listed below

- The declared dynamic operator sound pressure level is 79 dB(A) when "ISO 6396:2008" is used to measure the value for an enclosed cab. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed.
- Hearing protection may be needed when the machine is operated with an open operator station for extended periods or in a noisy environment. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors and windows are open for extended periods or in a noisy environment.
- The declared exterior sound power level is 116 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008."

D8R Track-Type Tractor Specifications

Dimensions (approximate)



	Standard		Non-Suspended		LGP*	
1 Track Gauge	2083 mm	82.0 in	2082 mm	82.0 in	2337 mm	92.0 in
2 Width of Tractor						
Over Trunnions	3057 mm	120.4 in	3050 mm	120.1 in	3377 mm	132.9 in
Without Trunnions (standard shoe width)	2642 mm	104.0 in	2642 mm	104.0 in	3302 mm	130.0 in
3 Machine Height, from Tip of Grouser						
Exhaust Stack	3489 mm	137.4 in	3480 mm	137.0 in	3480 mm	137.0 in
ROPS (cab or canopy)	3447 mm	135.7 in	3441 mm	135.5 in	3441 mm	135.5 in
Lights Mounted at Top of Cylinder	3729 mm	146.8 in	3729 mm	146.8 in	3729 mm	146.8 in
4 Length of Track on Ground	3206 mm	126.2 in	3258 mm	128.3 in	3258 mm	128.3 in
5 Length of Basic Tractor (tag link trunnion to tip of rear grouser)	4554 mm	179.3 in	4554 mm	179.3 in	4554 mm	179.3 in
With following attachments add:						
Ripper - Single Shank (with tip at ground line)	1519 mm	59.8 in	1519 mm	59.8 in	N/A	
Ripper - Multi Shank (with tip at ground line)	1613 mm	63.5 in	1613 mm	63.5 in	N/A	
SU Blade	1844 mm	72.6 in	1844 mm	72.6 in	1844 mm	72.6 in
U Blade	2241 mm	88.2 in	2241 mm	88.2 in	N/A	
A Blade (not angled)	2027 mm	79.8 in	2027 mm	79.8 in	N/A	
A Blade (angled 25 deg.)	3068 mm	120.8 in	3068 mm	120.8 in	N/A	
Drawbar	406 mm	16.0 in	406 mm	16.0 in	406 mm	16.0 in
6 Height of Grouser	78 mm	3.1 in	78 mm	3.1 in	78 mm	3.1 in
7 Ground Clearance	613 mm	24.1 in	606 mm	23.8 in	606 mm	23.8 in

*Standard shoe width of D8R LGP with non-suspended undercarriage is 905 mm (38 in).