

1650L XLT | 1650L WT | 1650L LGP



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For residential, commercial, utility, and roads and bridges site prep work, you need a crawler dozer that tackles the toughest challenges. And when you're doing steep slope work, finish grading or heavy dozing for eight or more hours a day, you need a cab that keeps you comfortable. The Case 1650L delivers high-performance power, traction, precision and speed so you can get on and off the job site faster. Add best-in-class service and maintenance features, and you'll see why owning and operating this machine is the smart choice.

Powerful engine

The six-cylinder, 6.7-liter turbocharged Case Tier 3-certified engine delivers an impressive 144 net horsepower, making it a top performer in the industry's 130-160 net horsepower class. The engine is connected to the hydrostatic pumps by a drive shaft, which reduces machine vibration and makes this machine more comfortable to operate.

Electronic fuel injection and a charged air cooler maximize engine power and increase fuel efficiency.

Maximum control

The 1650L can push a full load through a turn without losing control of the load, braking or raising the blade, so you can finish the job faster. The key to this productivity is the high-performance PowerStat hydrostatic drive. Dual path hydrostatics adjust infinitely (up to 6 mph) and provide drawbar pull (up to nearly 62,000 pounds) automatically. Or, select any of the 10 speed increments to suit your own operational speed.

The low-effort joystick puts the operator in complete control. Electronic controls manage speed, direction, straight tracking, power turns, pivot turns and counter rotation.

Tough undercarriage

The undercarriage featured on Case crawler dozers is built rock solid. The pinned equalizer beam suspension keeps this machine smooth at any speed and delivers plenty of stability and traction for work on slopes, stump removal or pushing hard at low speeds. Heavy-duty pins, bushings and rollers provide long-term track life.

Like all Case crawler dozers, the 1650L is available in a wide selection of undercarriage configurations. For precision grading, the XLT configuration is the way to go. Need extra stability and a wider blade for finish grading or slope work? The WT configuration is for you. Or, for applications requiring lower ground pressure, the LGP configuration maximizes flotation. Your Case dealer can help you select the track system that best suits your needs.

The Case Lubricated Track, standard on all units, is sealed and lubricated with an oil reservoir in each pin. For long wear life, pins and bushings are sealed to keep contamination out while maintaining lubrication. In abrasive soil conditions, the Case Extended Life Track (CELT) provides outstanding durability. CELT uses a second, hardened bushing that is free to rotate on the standard bushing, allowing wear to be distributed over the entire circumference of the outer bushing.

1650L XLT





1650L WT



1650L LGP



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Undercarriage configurations

Three track options provide maximum versatility: Extra Long Track (XLT), Wide Track (WT) and Low Ground Pressure (LGP). Various track pads let you customize your specific work conditions. Pads are available in 558, 610, 711, 864 mm widths in closed or open configurations.



Case Tier 3-certified engine The 1650L crawler dozer features a six-cylinder, 6.7-liter turbocharged Case Tier 3-certified engine that delivers 144 net horsepower. Electronic fuel injection and a charged air cooler add power and increase fuel efficiency.

Hydrostatic drive

The high-performance hydrostatic drive delivers power independently to each track so you can push a full blade through curves and turns.





Adjustable blade pitch The low-effort blade hydraulics on the Case 1650L feature powerful cylinders able to move the blade with ease and control. The mechanical pitch blade can be set between 50° to 60° to suit dozing applications and ground conditions.

Single-lever control

The single-lever control on the 1650L provides infinitely adjustable direction and speed control for precise and easy operation.





Comfortable cab

The isolation-mounted operator's environment cushions you from noise and vibration. For increased productivity and comfort, chose the cab option with heat, air conditioning and air ride suspension seat.











Superior worksite visibility The narrow, Advanced Instrumentation Cluster and tapered hood and cowl give the operator a direct line of sight to the cutting edge and the back of the blade.

SAHR parking brake The 1650L comes standard with a heavy-duty, springapplied hydraulic release parking brake. Turn the engine off and your unit will stay put.

Easy-tilt operator platform The exclusive Case tilt up operator platform provides convenient access to power train, electrical and hydraulic systems in less than 10 minutes.

Ground line access panels Seven "no tools required" ground-line access panels with easy-to-reach daily service checkpoints get your day off to a fast start. Swingout doors and spin-on filters make routine maintenance easy.

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Operator comfort

To maximize your productivity, the spacious, isolation-mounted operator's compartment cushions your body from noise and vibration and provides excellent visibility to the blade and surrounding work site. With easy-to-read instrumentation, comfortable controls and wide-open visibility, this machine is as productive as it is simple to operate. An optional cab includes a deluxe air suspension seat, and heat and air conditioning for year-round climate controlled comfort.





Best-in-class service and maintenance

At Case, we know the easier it is to perform maintenance on your machine, the more likely it will get done. And maintenance improves reliability and durability of the machine. Daily service and maintenance can be completed quickly, with fluid sight gauges positioned at eve level. Seven "no tools required" ground-line access panels make daily service simple. The quick-disconnect diagnostic test ports make the 1650L as simple to troubleshoot as it is to operate. Should your dozer need service, the easy-tilt system tips the operator platform in less than 10 minutes. Keeping your Case crawler dozer in top running condition requires less effort, so you have more time on the job-making money.







Specifications

Engine

Model	Case Family IV 667TA/EDJ Tier III Certified
	6
Bore/Stroke	104 x 132 mm
	6.7 I
	Direct common rail
Fuel	#2 Diesel
Fuel filter	Primary spin-on with in-line strainer
	Cross-flow
Cooling	Liquid
Engine speeds (rpm)	
High idle - no load	2300+/-50
Rated - full load	2200
Low idle	900-1100
Horsepower per SAE J134	9
Net	144 (107 kW) @ 2200 rpm
Gross	156 (116 kW) @ 2200 rpm
Peak torque @ 1400 rpm	
Net	669 N·m
Gross	690 N·m
Engine lubrication	
Pump	_ Deep sump plate cooler with pressurized
	under-piston nozzles
Dump energing angle ratio	

Pump operating angle ratings	
Side-to-side	45°
Fore and aft	45°

Engine cooling

Radiator	
Core size area	0.61 m ²
Rows of tubes	4
Fan	
Diameter	662 mm
Ratio	1.1:1

Electrical system

65 amp
24 volt system
(2) 12-volt low-maintenance 700 cold-cranking
amps at 0° F (-18 C)

Powertrain

Dual path hydrostatic	
Pump	variable axial piston
Motor	variable bent axis piston
	275.1 kN
Transmission Single lever control el	ectronic straight tracking
Oil filter 2 mid	cron, spin-on replaceable
Travel speeds*	
Forward	0-9.7 km/h
Reverse	0-9.7 km/h
*Measured using standard track chain. Incre	ase travel speeds by 4%
and reduce drawbar pull by 4% with the opt	ional CELT track chain.
Parking brakes He	avy-duty, spring-applied,
h	ydraulic pressure release
	Hydrostatic
Final drive2 helical gear redu	iction to planetary output
Ratio	61:1

Transmission cooling

Туре	Oil to air
Core size	4116 cm ²

Hydraulic system

Standard equipment pump	
Pump flow at 2200 rpm at 2830 psi (195 kPA)	132 l/min

Cylinders

Lift cylinder (2)	
Bore diameter	90 mm
Rod diameter	50 mm
Stroke	_ 826 mm
Angle cylinder (2)	
Bore diameter	_ 100 mm
Rod diameter	50 mm
Stroke	_ 509 mm
Tilt cylinder (1)	
Bore diameter	_ 125 mm
Rod diameter	63 mm
Stroke	_ 135 mm

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Undercarriage

Track adjustment Frame Oscillating equalizer beam suspension and Length of track on ground Track link pitch	
CLT track	190 mm
CELT track	190 mm
Track shoe height	56 mm
Pin diameter	38 mm
Bushing diameter	
CLT track	65 mm
CELT track	86 mm
Track shoes per side	
CLT track	45
CELT track	45
Track rollers per side	8
Carrier rollers per side	2
Track roller rail dia	_ 203 mm

Operator environment

ROPS canopy Adjustable armrests Foot rests Retractable seat belt, 2 in (51 mm) Vinyl suspension seat w/back adjustment Headliner Floormat Mirror Entire structure tilts for access

Instrumentation

Warning lights: Air filter Alternator Diagnostic fault indicator Engine coolant temperature Engine oil pressure Hydraulic filter Low fuel level Park brake engaged Service soon indicator Transmission filter Transmission charge pressure Gauges: Battery voltage Digital hourmeter/tachometer/diagnostic/service reminder Fuel level Transmission oil temperature Transmission speed indicator

Water temperature **Audible warnings:** Engine coolant temperature Engine oil pressure Low fuel level Transmission charge pressure Transmission/hydraulic temperature

Blade

Blade pitch (adjustable)	50°- 60°
Cutting edge	Reversible and replaceable
Width	200 mm
Thickness	20 mm

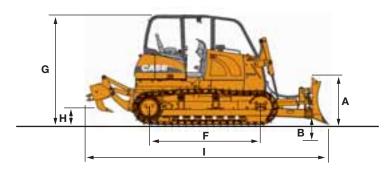
Ripper

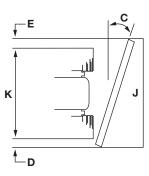
Max. penetration Width	483 mm 1711 mm
Cut width	635 mm
Ground clearance (shanks in top position)	424 mm
Points	_Replaceable
Max. number of shanks	5
Tooth spacing	
with 3 teeth	787 mm
Hydraulic cylinder (double-acting)	
Diameter	102 mm
Stroke	254 mm
Rod	51 mm

Service capacities

Fuel tank	246 I
Engine oil w/filter	15.6 l
Engine oil w/o filter	16.4 I
Engine cooling system	32
Cooling system	
Cab w/heater and AC	32.5
Hydraulic reservoir	98.4
Final drive (per side)	14.21
Track rollers (ea.)	0.275
Front idlers (ea.)	0.237
Carrier rollers (ea.)	0.334

General dimensions





		Extra Long Track (XLT)	Wide Track (WT)	Low Ground Pressure (LGP)
	BLADES			
	Blade width	3.20 m	3.98 m	3.98 m
	SAE blade capacity	3.1 m ³	3.1 m ³	3.2 m ³
Α	Blade height	1181 mm	1000 mm	1000 mm
В	Blade depth below ground	490 mm	589 mm	589 mm
C	Blade angle both directions	25°	28°	28 °
	Blade tilt, each end (up to 8.3°)	449 mm	551 mm	551 mm
	Blade lift above ground	949 mm	899 mm	899 mm
D	Cast reach	393.7 mm	591 mm	515 mm
Ε	Cut reach	-71 mm	86 mm	10 mm
	TRACKS			
	Track gauge	1.87 m	2.13 m	2.13 m
	Max shoe width	610 mm	711 mm	864 mm
F	Track on ground	3.04 m	3.04 m	3.04 m
	Area of track on ground	3.72 m ²	4.33 m ²	5.26 m ²
	Ground pressure	42.8 kPa	38.7 kPa	31.9 kPa
	DIMENSIONS			
G	Height to top of ROPS	2.99 m	2.99 m	2.99 m
	Height to top of cab	2.99 m	2.99 m	2.99 m
Η	Ground clearance	347 mm	347 mm	347 mm
	Length			-
Ι	- Blade straight with drawbar	5.66 m	5.66 m	5.66 m
	- Blade straight with ripper	6.62 m	6.62 m	6.62 m
	Width			
	- Blade straight	3.20 m	4.00 m	4.00 m
J	Blade angled	2.79 m	3.53 m	3.53 m
K	Over track	2.48 m	2.84 m	2.99 m

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 52.5 mm if unit is on solid surface.

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Operating Weight

Operating weight includes ROPS, full fuel tank, 77 kg operator, rear retrieval hitch, track guides, back up alarm, horn and lights

	Weight (kg)
Extra Long Track	15.965
Wide Track	16.640
LGP	17.042

Weight (kg)
66
1355
2500
930
84

Track and shoe options

Extra Long Track

558 mm	closed grousers and CLT
558 mm	open grousers and CELT
610 mm	closed grousers and CLT
610 mm	open grousers and CELT

Wide Track

558 mm	closed grousers and CLT
558 mm	open grousers and CELT
610 mm	closed grousers and CLT
610 mm	open grousers and CELT
711 mm	closed grousers and CLT
711 mm	open grousers and CELT

Low ground pressure

864 mm	closed grousers and CLT
864 mm	open grousers and CELT

L series crawler dozers

1650L	XLT	WT	LGP
	Extra Long Track	Wide Track	Low Ground Pressure
Engine	144 net hp (107 kW)	144 net hp (107 kW)	144 net hp (107 kW)
Blade capacity	3.1 m ³	3.1 m ³	3.2 m ³
Blade width	3.2 m	4.0 m	4.0 m
Case Extended Life Track on ground	3.0 m	3.0 m	3.0 m
Biodiesel	B20	B20	B20
0			

Area of track on ground

Shoe	Area (cm ²)
558 mm	34.093
610 mm	37.204
711 mm	43.027
864 mm	52.695

You can count on Case

You can count on Case and your Case dealer for full-service solutions-productive equipment, expert advice, flexible financing, genuine Case parts and fast service. We're here to provide you with the ultimate ownership experience.

Case pride

You can take pride in the Case name on your machine. It's backed by more than a century of productivity and performance. Case and your Case dealer are here for you, not only when you buy the machine, but also after you put 1,000 or 10,000 hours on it.

A rich, proud history

Case Construction Equipment's heritage spans more than 165 years. Growing from J.I. Case's innovations with steam-powered machinery in the late 1800s, Case developed road-building equipment that helped create early 20th century streets and highways across the world. By 1912, Case was well on its way to establishing itself as a full-line equipment manufacturer. The company continued to expand its construction equipment business over the next 45 years.

Celebrating a tradition of innovation

In 1957, Case produced the world's first integrated loader/backhoe made and warranted by one manufacturer. Over the decades and into the 21st century, Case has continued to develop a long line of industry firsts and has taken a leadership role in pioneering new products and solutions. Today, Case produces 15 lines of equipment and more than 90 models to meet your toughest construction challenges. Supported by manufacturing and sales in more than 150 countries, Case serves the needs of our customers worldwide.

Customer support

Case equipment is sold and serviced by more than 370 dealers and 900 outlets worldwide. No matter where you work, we're here to support and protect your investment.

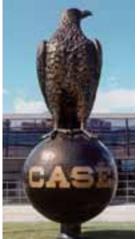
To locate a Case dealer or learn more about Case equipment or customer service, go to www.casece.com. For flexible financing options, dependable parts and fast service, your Case dealer is here to meet your needs.

It all adds up. You can count on Case.



EQUIPMENT | FINANCING | PARTSIAFTER SALES SERVICE









Standard equipment

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy Vinyl suspension seat w/back adjustment Retractable seat belt, 51 mm Adjustable armrests Foot rests Tool storage area Headliner Floor mat Entire structure tilts for access **ENGINE** Case Family IV 667TA/EDJ Automatic fan belt tensioner Integral engine oil cooling

Fuel filter Dual element radial seal air cleaner 65 amp alternator (2) 700 CCA 12-volt batteries Anti-sandblast radiator Engine side panels

Options

OPERATOR'S COMPARTMENT

Cab (w/heater, defroster, A/C, front windshield
washer and lights)3.98 m LGF
GUARDS
ROPS heaterROPS heaterGUARDS
ROPS canop
CAB canopy
Center rock76 mm seat beltCAB canopy
Center rockDeluxe air suspension seatCAB canopy
Center rockHYDRAULICSSCREENS
Rear ROPS
Side ROPS4 spool hydraulic valve for field-installed
ripperSide ROPS
Radiator bro
OTHER
CounterweiREAR MOUNTED EQUIPMENT
Ripper, 5 slot with 5 shanksOTHER
Drawbar, sh
Drawbar, sh
Drawbar, loStandard and optional equipment shown can vary by country.Standard and optional equipment shown can vary by country.

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POWERTRAIN

Dual path infinitely variable, single-lever controlled hydrostatic drive with electronic straight tracking & counter-rotation, 4-position forward/reverse ratio control Final drive - Triple reduction - helical gear/ planetary decelerator with hydrostatic drive retardation Automatic spring applied parking brake **BLADE** 50° - 60° variable pitch with integral adjustment tool Single lever electro hydraulic control for blade lift, angle and tilt **UNDERCARRIAGE**

Hydraulic track adjusters Case Lubricated Track Chain Permanently lubricated track and carrier rollers and idlers

3.98 m WT w/711 mm shoes 3.98 m LGP w/864 mm shoes **GUARDS** ROPS canopy brush guard CAB canopy brush guard Center rockguard **SCREENS** Rear ROPS and cab Side ROPS Radiator brush **OTHER** Counterweight, front Drawbar, short Drawbar, long Track adjuster guard Track guides (front and rear) OTHER Backup alarm Horn Anti-vandalism package Mirror Pre-cleaner Lights - 2 front, 1 rear Rear transmission guard Front pull hook

Rear retrieval hitch Environmental drains Turbine precleaner Rear wiper for cab Tool box for cab PTO equipment pump for winch drive Special paint Case Extended Life Track Grid heater Additional lights (2 front, 1 rear) CAB canopy brush guard Center rockguard

NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 98/37/CE



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