

**1150L / 2050M  
CRAWLER DOZER**

**CASE**  
CONSTRUCTION



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**SINCE 1842**

# SPECIFICATIONS

## 1150L CRAWLER DOZER

### ENGINE

|                            |                              |
|----------------------------|------------------------------|
| Model                      | FPT Diesel Engine / Tier III |
| Cylinders                  | 6                            |
| Displacement               | 6.7 L                        |
| Fuel injection             | Direct common rail           |
| Fuel filter                | Screw-on, with screen        |
| Cooling                    | Liquid                       |
| Engine speeds              | RPM                          |
| High idle - no load        | 2200 +/- 50                  |
| Rated - full load          | 2200                         |
| Low idle                   | 800 +/- 25                   |
| <b>Horsepower SAEJ1349</b> |                              |
| Net                        | 118 hp (88 kW) @ 2200rpm     |
| Gross                      | 130 hp (97 kW) @ 2200rpm     |

#### Engine lubrication

Forced lubrication with oil jet piston refrigeration system

#### Pump operating angle ratings

|              |     |
|--------------|-----|
| Side-to-side | 45° |
| Fore and aft | 45° |

#### Radiator

|                |                     |
|----------------|---------------------|
| Core size area | 0.61 m <sup>2</sup> |
| Rows of tubes  | 4                   |

#### Fan

|           |                       |
|-----------|-----------------------|
| Diameter  | 660 mm                |
| Propeller | Belt mechanical drive |

### TRANSMISSION COOLING

|           |                     |
|-----------|---------------------|
| Type      | Heat exchange       |
| Core size | 0.54 m <sup>2</sup> |

### ELECTRICAL SYSTEM

|              |   |
|--------------|---|
| Alternator   | 65 amps   |
| Batteries(2) | 2x 12 V in series, maintenance free. 750 A CCA at -18°C |

### POWER TRAIN

|                              |   |
|------------------------------|---|
| <b>Dual path hydrostatic</b> |   |
| Pump                         | Variable axial piston                             |
| Motor                        | Variable bent axis piston                         |
| Max. drawbar pull            | 214 kN  |
| Transmission                 | Single lever control electronic straight tracking |
| Oil filter                   | 4 micron, spin-on, replaceable                    |

|   |  |
|---|--|
| <b>Travel speeds</b>                    |  |
| Forward                                 | 0 - 9.7 km/h                                     |
| Reverse                                 | 0 - 9.7 km/h                                     |
| SAHR Parking brake                      |  |
| (Spring Applied Hydraulically Released) |  |
| Steering brakes                         | Hydrostatic                                      |
| Final drive                             | 2 helical gear reductions to planetary reduction |
| Reduction ratio                         | 61.4:1   |



### HYDRAULICS

|                      |           |
|----------------------|-----------|
| Pump flow @ 2200 RPM | 132 L/min |
| Max pressure         | 207 bar   |
| Lift cylinder PAT    | nr.2      |
| Bore diameter        | 108 mm    |
| Rod diameter         | 50.8 mm   |
| Stroke               | 445 mm    |
| Angle cylinder PAT   | nr.2      |
| Bore diameter        | 127 mm    |
| Rod diameter         | 63.5 mm   |
| Stroke               | 381 mm    |
| Tilt cylinder PAT    | nr.1      |
| Bore diameter        | 127 mm    |
| Rod diameter         | 63.5 mm   |
| Stroke               | 120 mm    |

### UNDERCARRIAGE

|                            |  |
|----------------------------|--|
| Track adjustment           | by grease injection                                |
| Frame                      | Two-tier chassis, manufactured in structural steel |
| Track link pitch           | 175.4 mm   |
| Track shoe height          | 51 mm  |
| Pin diameter               | 36.6 mm  |
| Bushing diameter           | 62 mm  |
| Track shoes per side       | 43   |
| Track rollers per side     | 7  |
| Carrier rollers per side   | 2  |
| Track roller rail diameter | 190 mm   |

### TRACK ON GROUND

|                  |                       |
|------------------|-----------------------|
| Shoe width       | 508 mm                |
| Tracks on ground | 26323 cm <sup>2</sup> |

### RIPPER

|                         |               |
|-------------------------|---------------|
| Max. penetration        | 478 mm        |
| Width                   | 1711 mm       |
| Cut width               | 1635 mm       |
| Max. ground clearance   | 424 mm        |
| Max. number of shanks   | 3             |
| Tooth spacing w/3 teeth | 785 mm        |
| Hydraulic cylinder      | Double-acting |
| Diameter                | 102 mm        |
| Stroke                  | 254 mm        |
| Rod                     | 51 mm         |

### SERVICE CAPACITY

|                        |         |
|------------------------|---------|
| Fuel Tank              | 300 L   |
| Engine oil w/ filter   | 16.4 L  |
| Engine oil w/o filter  | 15.6 L  |
| Engine cooling system  | 25.5 L  |
| Hydraulic reservoir    | 98.4 L  |
| Final drive - per side | 14.2 L  |
| Track rollers - each   | 0.330 L |
| Front idlers - each    | 0.460 L |
| Carrier rollers - each | 0.275 L |

### OPERATING WEIGHT

Unit equipped with a cab, full fuel tank, 77 kg operator, frontal pull hook, track guides, PAT blade.

| EXTRA LONG TRACKS (XLT) | WEIGHT (KG) |
|-------------------------|-------------|
|                         | 13625 kg    |
| ADD-ON WEIGHTS          | WEIGHT (KG) |
| Drawbar                 | 66 kg       |
| Ripper                  | 1043 kg     |
| Roller protection       | 134 kg      |

### BLADE

|                                   |                         |
|-----------------------------------|-------------------------|
| Variable blade pitch - adjustable | 55° to 60°              |
| Lift speed - per second           | 483 mm                  |
| Cutting edge                      | Reversible, replaceable |
| - Width                           | 203.2 mm                |
| - Length                          | 2158 mm                 |
| - Thickness                       | 19.1 mm                 |



# SPECIFICATIONS

## 1150L CRAWLER DOZER

### ENGINE

|                     |                       |
|---------------------|-----------------------|
| Model               | FPT Engine            |
| Cylinders           | 6                     |
| Displacement        | 6.7 L                 |
| Fuel injection      | Direct common rail    |
| Fuel filter         | Screw-on, with screen |
| Air in take         | Cross-flow            |
| Cooling             | Liquid                |
| Engine speeds       | RPM                   |
| High idle - no load | 2200 +/- 50           |
| Rated - full load   | 2200                  |
| Low idle            | 800 +/- 25            |

#### Horsepower SAE J1349

|       |                           |
|-------|---------------------------|
| Net   | 214 hp (160 kW) @ 2200rpm |
| Gross | 232 hp (173 kW) @ 2200rpm |

#### Engine lubrication

|      |   |
|------|---|
| pump | Deep sump plate cooler<br>w/ pressurized under-piston nozzles |
|------|---|

#### Pump operating angle ratings

|              |     |
|--------------|-----|
| Side-to-side | 35° |
| Fore and aft | 45° |

#### Radiator

|                |                     |
|----------------|---------------------|
| Core size area | 0.33 m <sup>2</sup> |
| Rows of tubes  | 2                   |

#### Fan

|          |                      |
|----------|----------------------|
| Diameter | 700 mm               |
| Ratio    | hydraulically driven |

### TRANSMISSION COOLING

|           |                     |
|-----------|---------------------|
| Type      | Oil to air          |
| Core size | 0.31 m <sup>2</sup> |

### ELECTRICAL SYSTEM

|              |   |
|--------------|---|
| Alternator   | 120 amps  |
| Batteries(2) | 12 Volt, low maintenance<br>1000 cold-cranking amps @ -18°C |

### POWER TRAIN

|   |   |
|---|---|
| Dual path hydrostatic                   |   |
| Pump                                    | Variable axial piston                             |
| Motor                                   | Variable bent axis piston                         |
| Max. drawbar pull                       | 360 kN  |
| Transmission                            | Single lever control electronic straight tracking |
| Oil filter                              | 4 micron, spin-on, replaceable                    |
| Travel speeds                           |   |
| Forward                                 | 0 - 9.3 km/h                                      |
| Reverse                                 | 0 - 9.3 km/h                                      |
| Parking brakes                          | Heavy-duty  |
| (Spring Applied Hydraulically Released) |   |
| Steering brakes                         | Hydrostatic                                       |
| Final drive                             | 2 helical gear reductions<br>to planetary         |
| ratio                                   | 48.75:1   |

### BLADE

|                                   |                         |
|-----------------------------------|-------------------------|
| Variable blade pitch - adjustable | 55° +/- 60°             |
| Lift speed - per second           | 483 mm                  |
| Cutting edge                      | Reversible, replaceable |
| Width (PAT)                       | 254 mm                  |
| Width (Bulldozer HSU)             | 200 mm                  |
| Thickness                         | 20 m                    |

### RIPPER

|                         |               |
|-------------------------|---------------|
| Max. penetration        | 581 mm        |
| Width                   | 2159 mm       |
| Cut width               | 1938 mm       |
| Max. ground clearance   | 518 mm        |
| Max. number of shanks   | 3             |
| Tooth spacing w/3 teeth | 930 mm        |
| Hydraulic cylinder      | Double-acting |
| Diameter                | 133.4 mm      |
| Stroke                  | 597 mm        |
| Rod                     | 70 mm         |

### SERVICE CAPACITY

|                        |         |
|------------------------|---------|
| Fuel Tank              | 405 L   |
| Engine oil w/ filter   | 16.4 L  |
| Engine oil w/o filter  | 15.6 L  |
| Engine cooling system  | 30.28 L |
| Hydraulic reservoir    | 210 L   |
| Final drive - per side | 25 L    |
| Track rollers - each   | 0.275 L |
| Front idlers - each    | 0.225 L |
| Carrier rollers - each | 0.334 L |

### OPERATOR ENVIRONMENT

|  |
|--|
| ROPS/FOPS cab - pneumatically suspended seat - w/ back adjustment  |
| - seat belt - adjustable armrests - foot rests - tool storage area   |
| - headliner floor mat - tilting seat platform - noise level 78dBA.   |
| 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. |
| <b>Gauges</b>  |

|   |
|---|
| Battery voltage - digital hour meter/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. |
|---|

### HYDRAULICS

|                                 |           |
|---------------------------------|-----------|
| Pump flow @ 2200 RPM            | 153 L/min |
| Max pressure                    | 248 bar   |
| Lift cylinder PAT               | nr.2      |
| Bore diameter                   | 114 mm    |
| Rod diameter                    | 63.5 mm   |
| Stroke                          | 428.8 mm  |
| Angle cylinder PAT              | nr.2      |
| Bore diameter                   | 114.3 mm  |
| Rod diameter                    | 63.5 mm   |
| Stroke                          | 502.7 mm  |
| Tilt cylinder PAT               | nr.1      |
| Bore diameter                   | 127 mm    |
| Rod diameter                    | 63.5 mm   |
| Stroke                          | 148.4 mm  |
| <b>Lift cylinder Bull Dozer</b> |           |
| Bore diameter                   | 82.6 mm   |
| Rod diameter                    | 50.8 mm   |
| Stroke                          | 1000 mm   |
| <b>Tilt cylinder Bull Dozer</b> |           |
| Bore diameter                   | 114.3 mm  |
| Rod diameter                    | 63.5 mm   |
| Stroke                          | 126 mm    |

### TRACK AND SHOE OPTIONS

|                        |
|------------------------|
| XL (EXTRA LONG TRACKS) |
| 610 mm                 |
| 610 mm                 |

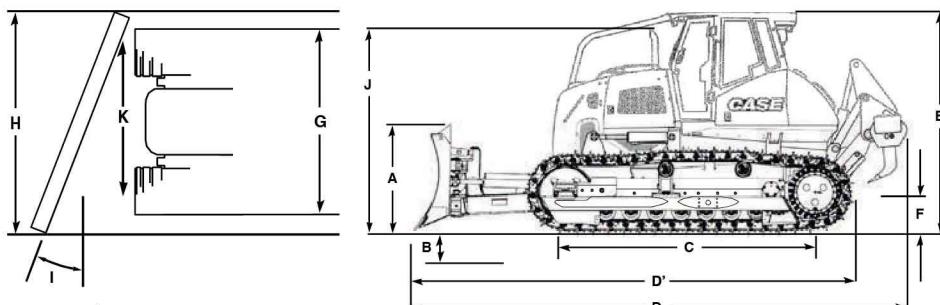
closed grousers and CLT  
open grousers and CELT

### TRACK ON GROUND

|           |                       |
|-----------|-----------------------|
| Shoe area |                       |
| 610 mm    | 39979 cm <sup>2</sup> |

# 1150L

## GENERAL DIMENSIONS



Line drawings are for illustrative purpose only and may not be exact representation of unit.

### DIMENSIONS

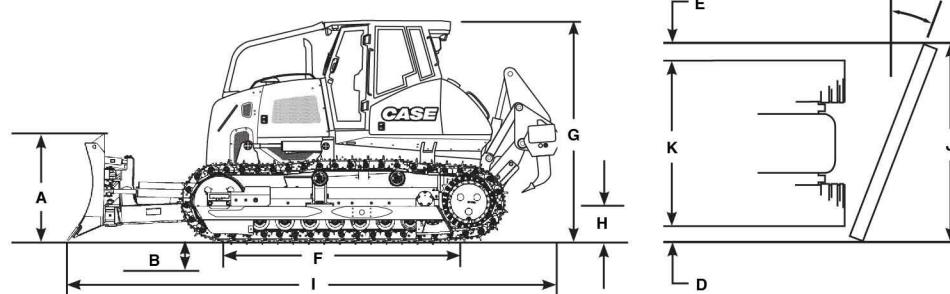
|  | XLT (extra-long track) |
|--|------------------------|
| A. Blade height  | 1120 mm                |
| B. Depth of the blade in the ground                        | 483 mm                 |
| C. Length of the track on the ground                       | 2590 mm                |
| D'.Length of the blade in the straight position and ripper | 5973 mm                |
| D. With blade in the straight position and draw bar        | 5025 mm                |
| E. Height to top of cab                                    | 2882 mm                |
| F. Ground clearance  | 379 mm                 |
| G. Width to the ends of the tracks                         | 2286 mm                |
| H. Width of the blade at a maximum angle                   | 2787 mm                |
| Width of the blade fully placed on the ground              | 3048 mm                |

### DIMENSIONS

|  | XLT (extra-long track)   |
|--|--------------------------|
| I. Blade angle of attack               | 25°                      |
| J. Height of the exhaust               | 2849 mm                  |
| K. Track Gauge                         | 1778 mm                  |
| Width of the shoe                      | 508 mm                   |
| Area of the track on the ground        | 26323 cm <sup>2</sup>    |
| Pressure on the ground                 | 0.47 kgf/cm <sup>2</sup> |
| SAE blade capacity                     | 2.9 m <sup>3</sup>       |
| Elevation of the blade over the ground | 965 mm                   |
| Blade oscillation (up to 8.3°)         | 439 mm                   |

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

# 2050M



Line drawings are for illustrative purpose only and may not be exact representation of unit.

### TRACKS

|                             | XLT (extra-long track)  |
|-----------------------------|-------------------------|
| Track guage                 | 1940 mm                 |
| D. Track on ground          | 610 mm                  |
| Area of track of ground     | 4,0 m <sup>2</sup>      |
| Ground pressure             | 0.51 kg/cm <sup>2</sup> |
| DIMENSIONS                  |                         |
| E. Height to top of cab     | 3103 mm                 |
| F. Ground of clearance      | 362 mm                  |
| G. Length                   |                         |
| Blade straight with drawbar | 5902 mm PAT             |
| 5387 mm Semi-U              |                         |
| Blade straight with ripper  | 7383 mm PAT             |
| 6869 mm Semi-U              |                         |

### BLADE DIMENSIONS

|                                   | SEMI - U                      | PAT                           |
|-----------------------------------|-------------------------------|-------------------------------|
| Blade Capacity SAE J1265          | 5.60 m <sup>3</sup>           | 4.83 m <sup>3</sup>           |
| Undercarriage available           | XLT                           | XLT                           |
| H. Blade width                    | 3426 mm                       | 3606 mm                       |
| Blade width in transport position | 3426 mm                       | 3287 mm                       |
| A. Blade height                   | 1425 mm                       | 1369 mm                       |
| Max. Tilt                         | +/-433 mm                     | +/-550 mm                     |
| Max. Pitch                        | +/-5°                         | 2.9 m <sup>3</sup>            |
| C. Max. Angle                     | -                             | +/- 28°                       |
| B. Digging depth                  | 583 mm                        | 590 mm                        |
| Max. lift above ground            | 1244 mm                       | 1130 mm                       |
| M. Cast reach                     | 438 mm                        | 576 mm                        |
| N. Cut reach                      | 438 mm                        | 146 mm                        |
| J. Over track                     | 2550 mm width<br>610 mm shoes | 2550 mm width<br>610 mm shoes |

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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EQUIPMENT



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