

PRODUCT SPECIFICATIONS FOR 745 BARE CHASSIS



ENGINE

| | |
|---|------------|
| Engine Model | Cat® C18 |
| Bore | 145 mm |
| Stroke | 183 mm |
| Displacement | 18.1 l |
| Gross Power - SAE J1995 | 381 kW |
| Net Power - SAE J1349 | 370 kW |
| Peak Engine Torque Net (SAE J1349) | 2558 N·m |
| Peak Engine Torque Gross (SAE J1995) | 2618 N·m |
| Net Power - ISO 14396 | 333 kW |
| Peak Engine Torque Speed | 1200 r/min |
| No Engine De-rating Required Below | 3050 m |
| Engine Model - U.S. EPA Tier 4 Final/EU Stage IV/Japan 2014 (Tier 4 Final)/Korea Tier 4 Final | Cat® C18 |

WHEEL BASE LENGTH

| | |
|---------------------|---------|
| Standard Wheel Base | 4590 mm |
| Long Wheel Base | 5801 mm |

WEIGHTS

| | |
|---------------|--------|
| Rated Payload | 49.9 t |
|---------------|--------|

TRANSMISSION

| | |
|--------------------|-----------|
| Forward - 1 | 6.1 km/h |
| Forward - 2 | 8.1 km/h |
| Forward - 3 | 11.2 km/h |
| Forward - 4 | 14.1 km/h |
| Forward - 5 | 18.7 km/h |
| Forward - 6 | 22.9 km/h |
| Forward - 7 | 31.5 km/h |
| Forward - 8 | 37.9 km/h |
| Forward - 9 | 54.8 km/h |
| Reverse - 1 | 6.4 km/h |
| Reverse - 2 | 14.6 km/h |

SERVICE REFILL CAPACITIES

| | |
|--|-------|
| Fuel Tank | 550 l |
| DEF Tank | 25 l |
| Cooling System | 90 l |
| Brake Cooling Tank | 67 l |
| Steering/Hoist Hydraulic System | 140 l |
| Engine Crankcase | 52 l |
| Transmission - OTG | 75 l |

| | |
|--------------------|-----|
| Final Drive - Each | 5 l |
|--------------------|-----|

| | |
|--------------|------|
| Axles - Each | 60 l |
|--------------|------|

| | |
|---------------------------|-------|
| Final Drives/Differential | 125 l |
|---------------------------|-------|

SOUND LEVELS

| | |
|--------------|----------|
| Interior Cab | 72 dB(A) |
|--------------|----------|

STANDARDS

| | |
|--------|---------------|
| Brakes | ISO 3450:2011 |
|--------|---------------|

| | |
|------------|------------------------|
| Cab - FOPS | ISO 3449:2005 Level II |
|------------|------------------------|

| | |
|------------|---------------|
| Cab - ROPS | ISO 3471:2008 |
|------------|---------------|

| | |
|----------|---------------|
| Steering | ISO 5010:2019 |
|----------|---------------|

STEERING

| | |
|--------------|-----------------------|
| Lock to Lock | 4.8 seconds at 60 rpm |
|--------------|-----------------------|

TURNING CIRCLE

| | |
|---------------------------------------|---------|
| Turning Dimensions - Clearance Radius | 9082 mm |
|---------------------------------------|---------|

| | |
|--|-----|
| Turning Dimensions - Steer Angle - Left/Right | 45° |
|--|-----|

| | |
|---|---------|
| Turning Dimensions - SAE Turning Radius | 8625 mm |
|---|---------|

| | |
|------------------------------------|---------|
| Turning Dimensions - Inside Radius | 4413 mm |
|------------------------------------|---------|

| | |
|----------------------------------|---------|
| Turning Dimensions - Aisle Width | 5917 mm |
|----------------------------------|---------|

| | |
|------|---|
| Note | Dimensions are for machines equipped with 29.5 R25 tires. |
|------|---|

745 BARE CHASSIS STANDARD EQUIPMENT

FOR MORE INFORMATION ON 745 BARE CHASSIS OPTIONS, PLEASE CONTACT CATERPILLAR OEM SOLUTIONS AT OEM_SOLUTIONS@CAT.COM.

NOTE

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

OPERATOR ENVIRONMENT

Windshield wiper and washer, two speed (rear)

Adjustable air vents

Machine operation monitoring system includes:

- Action lamp
- Engine oil pressure
- Primary steering system
- Left and right turn signal
- High beam
- Coolant temperature
- Tachometer
- Parking brake
- Fuel level
- Transmission oil temperature
- Brake system
- Transmission hold
- Hoist control
- Hydraulic system
- Charging system
- Retarder
- Transmission fault
- Traction control system
- Check engine lamp

Storage:

- Cup holder
- Flask receptacle
- Under seat storage
- Door pocket
- Behind seat storage
- Coat hook

Seats:

- Fully adjustable, air suspension
- Padded trainer with lap belt

Two seat belts, operator's retractable

Window blinds

Touch screen display incorporating the rearview camera video feed

Tilt and telescopic steering wheel

Windows opening side, tinted

Mirrors: extensive arrangement for improved visibility

Secondary steering – electro hydraulic
Windshield wiper and washer, two speed, intermittent (front)
Heater and defroster with variable speed fan
Air conditioning with R134A refrigerant
Sun visor
Combined gear selection and hoist control lever
Glass windows:
– Front, laminated and tinted
– Sides and rear, toughened and tinted
Liquid Crystal Display (LCD):
– Alert indicator
– Selected gear and direction
– Speed or auto shift
– Review Operation and Maintenance Manual (OMM)
– Primary steering failure
– Seat belt warning
– Secondary steering failure
– Diesel Particulate Filter (DPF) regeneration filter
– Machine Security System (MSS)
– Secondary steering energy source engaged
– Hour meter
– Retarder active

CAT TECHNOLOGIES

Product Link: PL641 (cellular)
Cat Detect with Stability Assist

ELECTRICAL AND LIGHTING

Batteries (two) maintenance free
Electrical system: 24-volt, 5A 24- to 12-volt converter
Horn
Lighting systems:
– Cab interior
– Two head lamps
– Two width marker
– Two reversing
– Work light
– Two stop/tail lights
– Front and rear direction indicators
Main disconnect switch
Remote starting receptacle (cables not included)

POWER TRAIN

Auto shift nine-speed forward and two reverse transmission
Cat C18 engine
Cat Clean Emission Module (CEM) and exhaust aftertreatment package
Differentials: standard with automatic clutched inter- and cross-axle differential locks

Dual circuit oil immersed, enclosed brakes – all wheels

Retarder: engine compression brake

Three axle, six-wheel drive

SAFETY

Reverse alarm

Rearview camera

ROPS/FOPS cab

GUARDS

Rear window

Radiator

Crankcase

Axle

OTHER STANDARD EQUIPMENT

S·O·S sampling valves

Tires, six 29.5R25, radial

Vandalism protection: lockable caps for fuel tank and hydraulic oil tank

745 BARE CHASSIS OPTIONAL EQUIPMENT

NOTE

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

OPTIONAL EQUIPMENT

Auto lube installation for automatic greasing of bearings

Bare chassis (no body) long wheel base

Bluetooth radio stereo system

Cat Production Measurement payload monitoring system

Cold weather coolant -51° C (-60° F)

Cold weather start attachment

Engine block heater

Ether start

Fast fuel fill

Fender extension

Flashing LED beacon

Four-point seat belt

Fuel additive – anti-waxing

Heated rearview motorized mirrors

Machine Security System (MSS)

Product Link Elite: PLE631 (satellite)

Roof mounted High Intensity Discharge (HID) work lights

Seat (deluxe) heated/cooled, half leather, air adjustable lumbar and air adjustable bolsters

Sound suppression

875/65 R29 wide tires