

# ARTICULATED TRUCKS 327B-330B-335B-340B



335B 330B 340B 327B 235 kW/315 hp 24 650 kg 260 kW/349 hp 28 160 kg 306 kW/410 hp 31 500 kg **Engine Horsepower** Payload Heaped capacity 14.5 m<sup>3</sup> 17.6 m<sup>3</sup> 20.0 m<sup>3</sup> 46 890 kg Total laden weight 50 730 kg 60 000 kg

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**340B** 340 kW/456 hp 36 000 kg 22.0 m<sup>3</sup> 65 000 kg

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### POWER AND ECONOMY

The Case range of articulated dump trucks use the latest electronically-controlled Tier III diesel engines. These 10 and 13 litre powerplants have high pressure common rail fuel injection and variable geometry turbocharging to provide rapid response, high torque rise and maximum fuel economy in all operating conditions. **High performance. Low environmental impact.** 

### EASE OF OPERATION

An electronically-controlled transmission offers a choice of fully automatic or powershift control of the six forward and three reverse gears. Finely modulated clutch engagement provides smooth gearchanges for extended component life and low fatigue for the operator. Smooth shifting. Complete control.



#### OPERATOR STATION

All four trucks offer a best-in-class operator environment, with unparalleled visibility thanks to a sloping engine canopy and flat glass throughout the cabin. An optional rear view camera and in-cab monitor offer further reassurance in tight site conditions. Isolation mounting, sound proofing and standard air conditioning provide the operator with a low fatigue office throughout the working day. Maximum comfort. Increased productivity.

### SMOOTH RIDE

The B series Case articulated truck has true independent front suspension with both vertical and oscillating movement. Long stroke cylinders provide excellent damping and bump absorption. This provides a smooth ride for the operator, enabling higher travel speeds and increased productivity. **Operator comfort. Increased traction.** 

#### WIDE LOAD

Case ADTs have a wide chassis and dump body, offering a low centre of gravity for increased stability. Tilt cylinders are mounted inside the frame for protection from damage and improved lift geometry. **Material retention. Solid stability.** 

#### TOTAL TRACTION

All Case articulated trucks have a standard full 6x6 traction drivetrain, with limited slip differentials in the axles and a longitudinal differential lock for operation in particularly tough applications. Perfectly matched driveline components include an integral differential mounted directly to the transmission, eliminating the need for a separate drive shaft and providing maximum power transfer to all wheels.

Extreme productivity. All weather performance



#### MINIMUM DOWNTIME

Forward power-tilt engine canopy offers excellent access to engine and service components. Centralised lubrication for axles, articulation and oscillation joints, with automatic lubrication system available as an option. Central service port for all hydraulic pressure check ports reduces diagnostic time and increases productive uptime. Ease of service. Reduced ownership cost.



The Case articulated dump truck range is powered by the latest family of Case electronically-controlled high pressure common rail diesel engines. Utilising variable geometry turbocharging, the 10 and 13 litre engine provide a high torque rise, for maximum rimpull in difficult site conditions, with low fuel consumption and reduced environmental impact. The 10 litre Tier III engine in the 327B offer 315hp (235kW) of power. In the 330B that is increased to 349hp (260kW). The larger 335B uses a 13 litre motor offering 410hp (306kW) while the same engine in the range-topping 340B comes with 456hp (340kW).

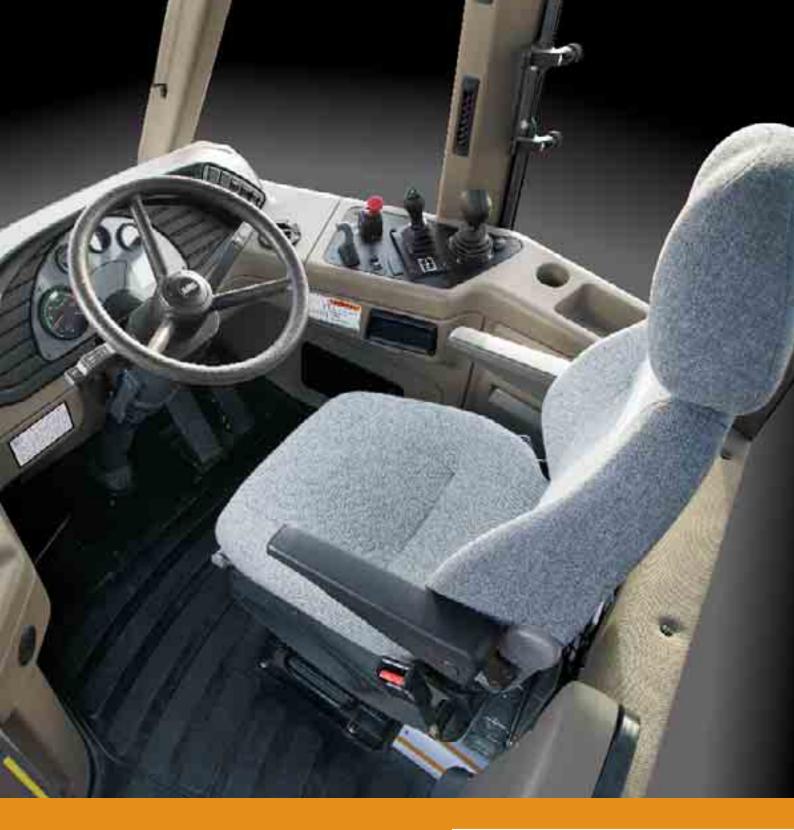
#### TRANSMISSION



An electronically-controlled transmission provides the operator with a choice of fully automatic operation or manual powershift control. Six forward ratios and three reverses gears enable full use of the engine power in all ground conditions. Precise clutch engagement and smooth gearshift modulation result in extended driveline component life and reduced fatigue for the operator.



Case ADTs come as standard with limited slip axles and longitudinal differential locks, that offer 6x6 drive for ultimate traction. An integral differential is mounted directly to the transmission output, eliminating the need for an additional driveshaft and providing maximum engine power to the wheels. Driveline components are well matched, with electronic control synchronising the operation of transmission and axles to provide high levels of tractability in all operating conditions. The 335B and 340B feature an industry-exclusive warm up circuit that uses the transmission retarder to warm the hydraulic oil on start up, reducing pressure on seals and increasing hydraulic component life.



#### **OPERATOR'S CAB**

There is no better view from an ADT cab than from the Case B series, with its sloping engine canopy and flat glass all round providing a commanding view around the truck. Large side windows and floor to ceiling glass doors provide a light, airy working environment and the ROPS/FOPS structure is isolation mounted to provide a smooth ride for the driver. An ergonomically designed console provides easy control for the operator, with push button change from manual to automatic operation of the transmission. A fully adjustable suspension seat, tilting steering wheel and standard air conditioning complete the picture, ensuring low fatigue and high productivity throughout the working day.





All B series trucks have independent front suspension offering both vertical and oscillating movement. The suspension uses long travel cylinders for excellent bump suppression, providing a smooth ride for the operator, particularly when running unladen on the return leg of a haul. The rear suspension has dual cast steel beams secured directly under the rear frame, for long term durability and reliability. This combination allows the operator to work at higher speeds, increasing productivity and reducing the cost per tonne moved on site.



The Case B series articulated truck has a wide chassis and dump body to provide a lower centre of gravity, increasing stability on rough ground and assisting the suspensions system to provide a smooth ride. The tilt cylinders are mounted within the wide frame rails, for added protection and to improve the lift geometry for rapid discharge and return to hauling position.

Heaped capacities range from 14.5 m<sup>3</sup> on the 327B to 22.0 m<sup>3</sup> on the top of the range 340B.



A powered forward tilting engine canopy provides excellent access to the engine and cooling pack for regular service and maintenance. For more complete access to the transmission and hydraulic system, the cab can be tilted away from the chassis and the fenders opened for a completely unhindered view of major components. The Case trucks feature an electronic control and monitoring system (EDC) in the cab console which displays all fluid levels and temperatures when the truck is started, greatly reducing the daily checks necessary before use. In addition centralised hydraulic pressure check points assist with fault diagnosis and the trucks have swing out wheel arches for access to the front tyres and hydraulic components. Automatic lubrication is available, with all B Series Trucks having centralised lubrication for axles, articulated and oscillation joints.







#### ENGINE

ModelCase F	amily IV 10 liter, Tier III certified
Type4-stroke, va	ariable geometry, turbocharged
	and air to air cooled diesel
Cylinders	In-line 6
Bore/stroke	125 x 140 mm
Displacement	10.3
Aftercooler	Yes
Enginepower per SAE J1995	
Gross	_ 315 hp (235 kW) @ 2100 rpm
Net	_300 hp (224 kW) @ 2100 rpm
Maximum torque @ 1000 rpm	nNet 1450 Nm

#### **TRANSMISSION**

Model		ZF 6WG260
Туре		Powershift
Torque co	onverter	Lock up all gears
Torque co	onverter ratio	2:08-1
Gears		6 forward/3 reverse
	Forward travel km/h	Reverse travel km/h
1st	5.4	5.4
2nd	8.4	13.2
Зrd	13.2	30.0
4th	20.5	-
5th	30.0	-
6th	46.6	-
Torque pr	roportion front/rear	33.3%/66.6%
Drop box	· · · —	Integrated
Gradeabil	lity	40% max. (18°)

#### **BRAKES**

Service - calliper	2 per wheel (front), 1 per wheel (rear)
	outboard disc (6)
Parking - calliper	(1) protected disc (1) on drive shaft
Engine Brake	Turbo brake

#### **TRANSFER BOX**

Mounting	Integral
Ranges	1
Front axle interlock	Dog Clutch type

#### **FRONT WHEEL ENDS**

Make/model	Kessler R81 PL488
Туре	Outboard planetary

#### **INTERMEDIATE AND REAR DRIVE AXLES**

Make/Model _	Kessler D81PL488
Туре	Outboard planetary
Axle	Limited slip

#### **CHASSIS**

Туре	Front/rear box frame
Linkage	Universal joint

#### **STEERING/ARTICULATION**

Frame connection	Ball bearing with 2 ball races
	and 4 spherical joints
Articulation angle degrees	45°
Steering turns lock-lock	4.5
Secondary steering type	Ground driven

#### **SUSPENSION**

Front type	"A" frame plus tie-rod
Front suspension	Nitrogen-oil
Rear type	2-Rocking beams
Rear suspension	Rubber bush

#### LOAD BODY

Construction	Ribless
Body tipping angle deg	68°
Body tipping time to raise/lower	13/13 sec
Tip cylinders type	Multi stage
Power down	Yes, 1st stage
Loadover height	2700 mm

#### PAYLOAD

Payload	24 650 kg
Capacity, struck	10.6 m <sup>3</sup>
Capacity, heaped SAE 2:1	14.5 m³

#### **CAPACITIES**

Fuel tank	380
Hydraulic reservoir	2201
Engine oil	30.5
Transmission	38
Front wheel hubs	3.0
Drive axles	
Intermediate	15
Rear	13

#### **TYRES**

Rim	5 section
Rim	size 19.5 x 25
Standard tyre	Tubeless 23.5 x R25

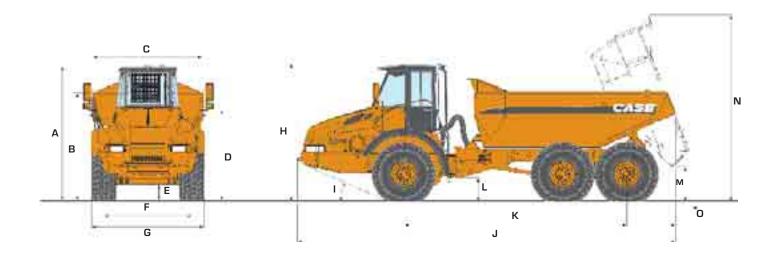
#### **WEIGHT**

PL488

Weight (unladen)	22 240 kg
Front	12 155 kg
Rear	10 085 kg
Total laden weight	46 890 kg



### **GENERAL DIMENSIONS 327B**



A Overall height m	3.65
B Height to side of load body	2.70
C Load body width m	2.50
Height to load bed end m	2.39
E Ground clearance - rear differential m	0.47
F Tread width - centre to centre m	2.36
G Overall width m	2.86
H Height to top of cab m	3.62
I Approach angle	23°
J Overall length m	10.03
K Wheelbase m	5.91
L Ground clearance @ articulation point m	0.65
M Dump clearance m	0.95
N Maximum height - dumping position m	6.23
Rear dumping clearance     m	0.35

#### ENGINE

ModelCase	Family IV 10 liter, Tier III certified
Type4-stroke,va	ariable geometry, turbocharged
	and air to air cooled diesel
Cylinders	In-line 6
Bore/stroke	125 x 140 mm
Displacement	10.3
Aftercooler	Yes
Enginepower per SAE J1995	
Gross	. 349 hp (260 kW) @ 1900 rpm
Net	_334 hp (249 kW) @ 1900 rpm
Maximum torque @ 1100 rpm	Net 1650 Nm

#### TRANSMISSION

Model		ZF 6WG260
Туре		Powershift
Torque co	nverter	Lock up all gears
Torque co	nverter ratio	2.08:1
Gears		6 forward/3 reverse
	Forward travel km/h	Reverse travel km/h
1st	5.4	5.4
2nd	8.4	13.2
3rd	13.2	30.0
4th	20.5	-
5th	30.0	-
6th	46.6	-
Torque pr	oportion front/rear	33.3%/66.6%
Drop box	· ·	Integrated
Gradeabil	ity	40% max. (18°)

#### BRAKES

Service - calliper	2 per wheel (front), 1 per wheel
	(rear) outboard disc (6)
Parking - calliper	_(1) protected disc (1) on drive shaft
Engine Brake	Turbo brake
Transmission retarder (c	pptional)

#### **TRANSFER BOX**

Mounting	Integral
Ranges	1
Front axle interlock	Dog Clutch type

#### **FRONT WHEEL ENDS**

Make/model	Kessler R81 PL488
Туре	Outboard Planetary

#### **INTERMEDIATE AND REAR DRIVE AXLES**

Make/Model	Kessler D81PL488
Туре	Outboard Planetary
Axle	Limited slip

#### **CHASSIS**

Туре	Front/rear box frame
Linkage	Universal joint

#### STEERING/ARTICULATION

_Ball bearing with 2 ball races
and 4 spherical joints
45°
4.5
Ground driven

#### SUSPENSION

Front type	"A" frame plus tie-rod
Front suspension	Nitrogen-oil
Rear type	2-Rocking beams
Rear suspension	Rubber bush

#### LOAD BODY

Construction	Ribless
Body tipping angle deg	68°
Body tipping time to raise/lower	13/13 sec
Tip cylinders type	Multi stage
Power down	Yes, 1st stage
Loadover height	2820 mm

#### PAYLOAD

Payload	28 160 kg
Capacity, struck	13.7 m <sup>3</sup>
Capacity, heaped SAE 2:1	17.6 m³

#### **CAPACITIES**

Fuel tank	380 I
Hydraulic reservoir	2201
Engine oil	30.5 l
Transmission	381
Front wheel hubs	3.0 I
Drive axles	
Intermediate	15
Rear	13

#### **TYRES**

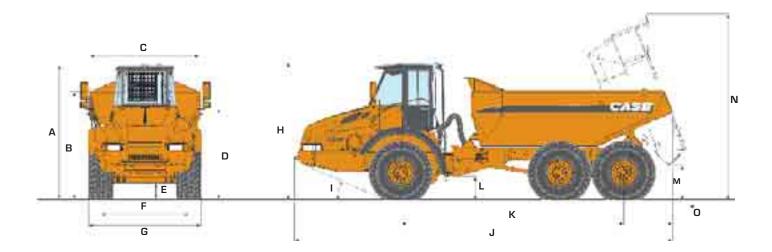
Rim	5 section
Rim	size 19.5 x 25
Standard tyre	Tubeless 23.5 R25

#### WEIGHT

Weight (unladen)	22 570 kg
Front	12 000 kg
Rear	10 570 kg
Total laden weight	50 730 kg



### **GENERAL DIMENSIONS 330B**



A Overall height n	3.65
B Height to side of load body n	2.92
C Load body width n	2.96
Height to load bed end n	1 2.47
E Ground clearance - rear differential n	0.47
F Tread width - centre to centre n	1 2.36
G Overall width n	2.96
H Height to top of cab n	3.62
I Approach angle	23°
J Overall length n	10.03
K Wheelbase n	5.91
L Ground clearance @ articulation point n	0.63
M Dump clearance n	1.00
N Maximum height - dumping position n	6.31
<ul> <li>Rear dumping clearance</li> </ul>	0.43





#### ENGINE

Model0	Case Family IV 13 liter, Tier III certified
Туре	4-stroke, variable geometry,
tur	bocharged and air to aircooled diesel
Injection	Electronic
Cylinders	In-line 6
Bore/stroke	135 x 150 mm
Displacement	12.9
Aftercooler	Yes
Enginepower per SAE J1	995
Gross	410 hp (306 kW) @ 2100 rpm
Net	380 hp (284 kW) @ 2100 rpm
Maximum torque @ 1180	) rpmNet 1850 Nm

#### **TRANSMISSION**

Model		ZF 6WG310
Туре		Powershift
Torque co	onverter	Lock up all gears
Torque co	onverter ratio	1.84:1
Gears		6 forward/3 reverse
	Forward travel km/h	Reverse travel km/h
1st	5.5	5.5
2nd	8.6	13.4
Зrd	13.4	30.6
4th	20.9	-
5th	30.6	-
6th	47.5	-
Torque pr	roportion front/rear	33.3%/66.6%
Drop box		Gearbox Integrated
Gradeabil	ity	60% max. (27°)

#### BRAKES

Service - calliper \_\_\_\_\_2 per wheel front axle and 1 per wheel rear axle, outboard dry discs (6) Parking - calliper (1) \_Protected disc (1) on drive shaft (pneumatic) Engine Brake \_\_\_\_\_ Turbo brake Transmission retarder

#### **TRANSFER BOX**

Mounting	Integral
Ranges	1
Front axle interlock_	Dog Clutch type

#### **FRONT WHEEL ENDS**

Make/model	ZF/RP17
Туре	Outboard Planetary

#### **INTERMEDIATE AND REAR DRIVE AXLES**

Make/Model	ZF/MT-D3105
Type	Outboard Planetary
Axle	Limited slip

#### **CHASSIS**

lype	Hront/rear box frame
Linkage	Universal joint

#### **STEERING/ARTICULATION**

Ball bearing with 2 ball races
and 4 spherical joints
45°
4.5
Ground driven

#### **SUSPENSION**

Front type	"A" frame plus tie-rod
Front suspension	Nitrogen-oil
Rear type	2-Rocking beams
Rear suspension	Rubber bush

#### LOAD BODY

Construction	Ribless
Body tipping angle deg	70°
Body tipping time to raise/lower _	11/13 sec
Tip cylinders type	Multi stage
Power down	Yes, 1st stage
Loadover height	3070 mm

#### PAYLOAD

Payload	31 500 kg
Capacity, struck	15 m <sup>3</sup>
Capacity, heaped SAE 2:1	20 m³

#### **CAPACITIES**

Fuel tank	440
Hydraulic reservoir	300
Engine oil	35
Transmission	35.5
Front wheel hubs	3.0
Front wheel ends	91
Drive axles	
Intermediate	34
Rear	331

#### **TYRES**

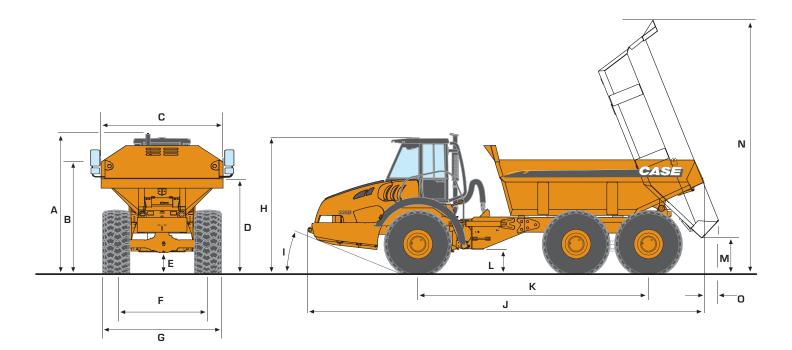
Rim	5 section
Rimsize	25 x 22
Standard tyre	Tubeless 26.5 x R25

#### WEIGHT

Weight (unladen)	_28 500 kg
Front	_14 100 kg
Rear	14 400 kg
Total laden weight	60 000 kg



### **GENERAL DIMENSIONS 335B**



A Overall height - top of muffler	m	3.80
B Height to side of load body	m	3.07
C Load body width	m	3.33
D Height to load bed end	m	2.57
E Ground clearance - rear differential	m	0.54
F Tread width - centre to centre	m	2.52
G Overall width	m	3.19
H Height to top of cab	m	3.68
I Approach angle		21°
J Overall length	m	10.78
K Wheelbase	m	6.27
L Ground clearance @ articulation point	m	0.64
M Dump clearance	m	0.94
N Maximum height - dumping position	m	6.87
Rear dumping clearance	m	0.68

#### ENGINE

ModelCase	e Family IV 13 liter, Tier III certified
Туре	4-stroke, variable geometry,
turboc	harged and air to aircooled diesel
Injection	Electronic
Cylinders	In-line 6
Bore/stroke	135 x 150 mm
Displacement	12.9
Aftercooler	Yes
Enginepower per SAE J199	ō
Gross	456 hp (340 kW) @ 2000 rpm
Net	426 hp (318 kW) @ 2000 rpm
	mNet 2000 Nm

#### **TRANSMISSION**

Model		ZF 6WG310
Туре		Powershift
Torque co	onverter	Lock up all gears
Torque co	onverter ratio	1.84:1
Gears		6 forward/3 reverse
	Forward travel km/h	Reverse travel km/h
1st	5.9	5.9
2nd	9.1	14.3
Зrd	14.3	32.6
4th	22.2	-
5th	32.6	-
6th	50.6	-
Torque pr	roportion front/rear	33.3%/66.6%
Drop box	. ,	Gearbox Integrated
Gradeabil	ity	60% max. (27°)

#### BRAKES

Service\_\_\_\_\_Multiple discs, oil cooled Parking - calliper \_(1) protected disc (1) on drive shaft (pneumatic) Engine Brake\_\_\_\_\_Turbo brake Transmission retarder

#### **TRANSFER BOX**

Mounting	Integral
Ranges	1
Front axle interlock_	Dog Clutch type

#### **FRONT WHEEL ENDS**

Make/model	ZF/RP17
Туре	Outboard Planetary

#### INTERMEDIATE AND REAR DRIVE AXLES

Make/Model	ZFMT-D3105
Туре	Outboard Planetary
Axle	Limited slip

#### **CHASSIS**

Type\_\_\_\_\_Front/rear box frame Linkage\_\_\_\_\_Universal joint

#### **STEERING/ARTICULATION**

Frame connection	Ball bearing with 2 ball races
	and 4 spherical joints
Articulation angle degrees	45°
Steering turns lock-lock	4.5
Secondary steering type	Ground driven

#### **SUSPENSION**

Front type	"A" frame plus tie-rod
Front suspension	Nitrogen-oil
Rear type	2-Rocking beams
Rear suspension	Rubber bush

#### LOAD BODY

Construction	Ribless
Body tipping angle deg	70°
Body tipping time to raise/lower	11/13 sec
Tip cylinders type	Multi stage
Power down	Yes, 1st stage
Loadover height	3110 mm

#### PAYLOAD

Payload	36 000 kg
Capacity, struck	17 m³
Capacity, heaped SAE 2:1	22 m³

#### CAPACITIES

Fuel tank	4401
Hydraulic reservoir	300 I
Engine oil	35 I
Transmission	35.5 I
Front wheel hubs	91
Drive axles	
Intermediate	34 I
Rear	33 I

#### **TYRES**

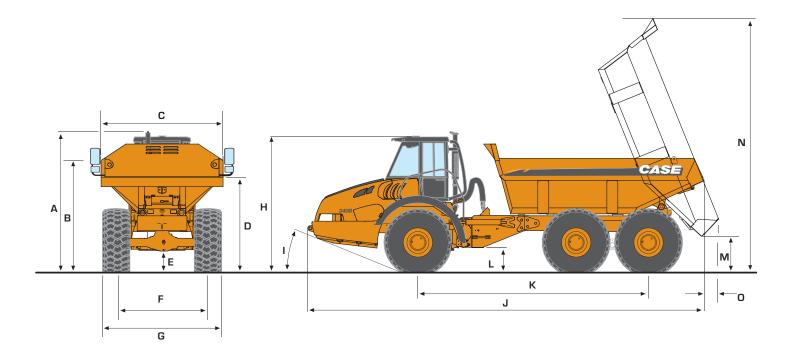
Rim	5 section
Rim	size 25 x 22
Standard tyre	Tubeless 29.5 R25

#### WEIGHT

Weight (unladen)	29 000 kg
Front	14 340 kg
Rear	14660 kg
Total laden weight	65 000 kg



### **GENERAL DIMENSIONS 340B**



A Overall height - top of muffler m	3.84
B Height to side of load body m	3.11
C Load body width m	3.34
D Height to load bed end m	2.61
E Ground clearance - rear differential m	0.58
F Tread width - centre to centre m	2.60
G Overall width m	3.34
H Height to top of cab m	3.72
I Approach angle	22°
J Overall length m	10.78
K Wheelbase m	6.27
L Ground clearance @ articulation point m	0.68
M Dump clearance m	0.98
N Maximum height - dumping position m	6.91
Rear dumping clearance     m	0.68

# **STANDARD EQUIPMENT & OPTIONS**

### 

- ROPS (SAE J1040-ISO 3471) FOPS (SAE J7231-ISO 3449) cab
- EPA off-road certified Heater/defroster/pressuriser Air conditioner

- Windshield wiper and washer, front and side
- Rear window protection grille
- Adjustable steering column
- Outside rear view mirrors
- Air suspension driver's seat
- 5 cm wide retractable seat belt
- Training seat Windshield sun shade
- Cup holder
- 24V to 12V converter
- ion
- Hourmeter
- Tachometer (rpm)
- Speedometer (mph and km/h)
- Fuel level
- Engine coolant temperature
- Engine oil pressure
- Transmission oil pressure
- Computer visual display unit
- Indicator lights

  Alternator charging
- Turn signal
- Service brake pressure
- Parking brake engaged
- Central longitudinal differential lock
- Dump body raised
- Warning lights test button

- For 335B/340B
- Rear longitudinal differential lock
- Two speed front wiper
- Front wiper washer
- Side winer washer
- Interior lights
- Horn
- 12-volt cigarette lighter w/ashtray
- Hazard warning
- Reverse alarm
- Hi-beam lights
- Turn signal
- For 335B/340B Hydraulic retarder
- Tier III certified
- Engine turbo brake
- Electronic Fuel Injection
- Air cleaner pre-cleaner
- ectrical
- 24-volt system
- Head light, stop light, reverse light
- Front and rear turn signals/flashers
- Electrically operating tilt up hood 12-volt plús (2)
- 12-volt wiring for radio and CB
- For 327B/330B 140 amp hour batteries (2) - 1200 CCA
- 70 amp alternator For 335B/340B
- 170 amp hour batteries (2) 1200 CCA 90 amp alternator raulics

Flow amplified steering

Standard and optional equipment shown can vary by country.

### Worldwide Case Construction Equipment Contact Information

### EUROPE/AFRICA/MIDDLE EAST: Centre D'affaires EGB

5, Avenue Georges Bataille - BP 40401 60671 Le Plessis-Belleville - FRANCE

#### NORTH AMERICA/MEXICO: 700 State Street Racine, WI 53404 U.S.A.

LATIN AMERICA:

#### Av. General David Sarnoff 2237 32210 - 900 Contagem - MG Belo Horizonte BRAZIL

ASIA PACIFIC:

Unit 1 - 1 Foundation Place - Prospect New South Wales - 2148 AUSTRALIA CHINA:

No. 29, Industrial Premises, No. 376. De Bao Road, Waigaoqiao Ftz, Pudong, SHANGHAI, 200131, P.R.C.

### CASE Assistance 00800-2273-7373

The call is free from a land line. Check in advance with your Mobile Operator if you will be charged.

NOTE: Standard and optional fittings can vary 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

Conforms to directive 98/37/CE

Hydraulic diagnostic quick couplers

Closed circuit TV (rear view camera

& monitor)

Radio

Miscellaneous

Ground line start

For 327B/330B

Auto lube system

For 335B/340B

For 330B

Auxiliary Tipping Brake

Wet brakes, oil cooled

4 Work lights cab mounted

For 330B/335B/340B

Auto warm up with retarder

<sup>-</sup>orm No. 26061048GB - Printed in Italy - LEADER Firenze -

- Emergency steering system
  Ground driven steering pump (1)
- Cold start aid Grid heater
- Cab tilting system For 327B/335B
- Centralised lube
- For 335B/340B Auto Lube System
- For 340B
- Wet brakes, oil cooled

#### OPTIONS

- Body
  - Spillguard
  - Body heating kit+spillguard
  - Rock body
  - Ultra heavy duty rock body
  - Rear mechanical tail gate
  - Body extensions
  - Tyres For 327B/330B 23.5R25 XADN 650/65R25 XADN
  - For 335B 26.5R25 XADN Michelin
  - For 340B 29.5R25 XADN Michelin

Hydraulic retarder

**Operator's environment** 

**CASE Construction Equipment** 

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Doncaster,

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www.casece.com

Transmission

Rotating Beacon

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For 330B