

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



Engine Horsepower Payload Heaped capacity Total laden weight **327B** 235 kW/315 hp 24 650 kg 14.5 m<sup>3</sup> 46 890 kg **330B** 260 kW/349 hp 28 160 kg 17.6 m<sup>3</sup> 50 730 kg **335B** 306 kW/410 hp 31 500 kg 20.0 m³ 60 000 kg **340B** 340 kW/456 hp 36 000 kg 22.0 m<sup>3</sup> 65 000 kg

### 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 single unit injection pumps 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

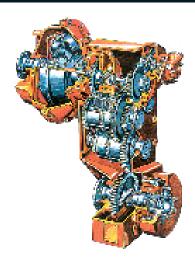
Forward power-tilt engine canopy offers excellent access to engine and service components. Centralised lubrication for axles, articulation and oscillation joints, with automatic lubrication system available as an option. Central service port for all hydraulic pressure check ports reduces diagnostic time 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 diesel engines featuring high pressure single unit injection pumps. 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 315 hp (235 kW) of power. In the 330B that is increased to 349 hp (260 kW). The larger 335B uses a 13 litre motor offering 410 hp (306 kW) while the same engine in the range-topping 340B comes with 456 hp (340 kW).

#### **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  $\,m^3$  on the 327B to 22.0  $\,m^3$  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.



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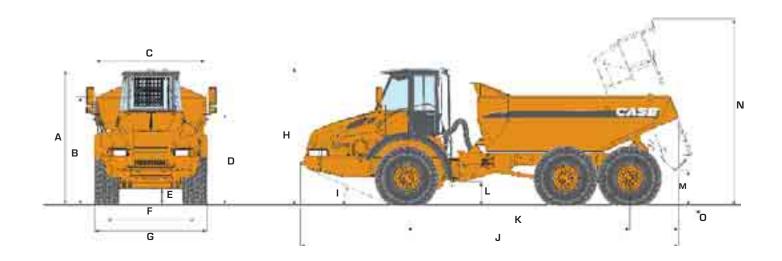


	,
ENGINE	" N/40" T III .: .: .
ModelCase Far Type4-stroke, varia	nily IV 1U liter, Tier III certified
1ype4-56 0ke, valid	and air to air cooled diesel
Cylinders	
Bore/stroke	125 x 140 mm
Displacement	10.3
	Yes
Enginepower per SAE J1995	
Gross3	15 hp (235 kW) @ 2100 rpm
Net3	00 hp (224 kW) @ 2100 rpm
Maximum torque @ 1000 rpm _	Net 1450 Nm
TRANSMISSION	
Model	ZF 6WG260
Type	
Torque converter	Lock up all gears
Torque converter ratio	2:08-1
Gears	6 forward/3 reverse
	Reverse travel km/h
1st 5.4	5.4
2nd 8.4 3rd 13.2	13.2 30.0
4th 20.5	-
5th 30.0	- -
6th 46.6	_
Torque proportion front/rear	33.3%/66.7%
Drop box	Integrated
Gradeability	40% max. (18°)
BRAKES	166 3 4 1 16 3
Service - calliper2 per wh	
Parking - calliper(1) pro	outboard disc (6)
Engine Brake( 1) pro	Turbo brake
Lingine bi ake	Tul bo bi ake
TRANSFER BOX	
Mounting	
Ranges	1
Front axle interlock	Dog Clutch type
FRONT WHEEL ENDS	
Make/model	Kessler R81 PL488
Type	Outboard planetary
INITEDNATIONAL AND DE	
INTERMEDIATE AND RE	
Make/Model	Kessler D81PL488
Type Axle	Uutboard planetary
AXIC	Limitea siip
CHASSIS	
Type	Front/rear box frame
Linkage	Universal joint

STEERING/ARTICULATION	
Articulation angle degrees Steering turns lock-lock Secondary steering type	45° 4.5
SUSPENSION Front type Front suspension Rear type Rear suspension	Nitrogen-oil 2-Rocking beams
LOAD BODY Construction Body tipping angle deg Body tipping time to raise/lower Tip cylinders type Power down Loadover height	er 13/13 sec Multi stage Yes, 1st stage
PAYLOAD Payload Capacity, struck Capacity, heaped SAE 2:1	24 650 kg 10.6 m³ 14.5 m³
CAPACITIES Fuel tank Hydraulic reservoir Engine oil Transmission Front wheel hubs Drive axles Intermediate Rear	30.5   38   3.0
TYRES Rim	5 section
WEIGHT Weight (unladen) Front Rear Total laden weight	12 155 kg 10 085 kg



# **GENERAL DIMENSIONS 327B**



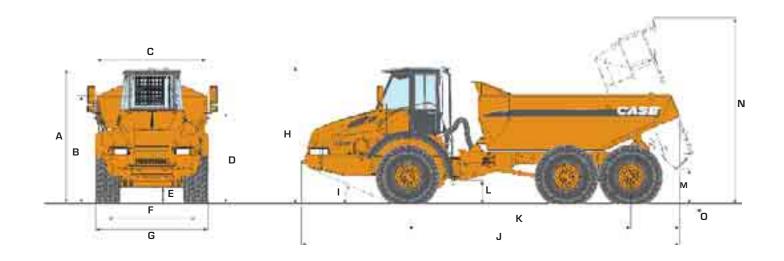
A Overall height	m	3.65
B Height to side of load body	m	2.70
C Load body width	m	2.50
D Height to load bed end	m	2.39
E Ground clearance - rear differential	m	0.47
F Tread width - centre to centre	m	2.36
G Overall width	m	2.86
H Height to top of cab	m	3.62
Approach angle		23°
J Overall length	m	10.03
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		
	Case Fam	nily IV 10 liter, Tier III certified
Type	4-stroke,varia	ble geometry, turbocharged
		and air to air cooled diesel
Cylinders		In-line 6
Bore/stroke		125 x 140 mm
Displacement Aftercooler		10.3 l
Enginepower per S		Yes
Gross	34 34	.9 hp (260 kW) @ 1900 rpm
Net	33	9 hp (260 kW) @ 1900 rpm 34 hp (249 kW) @ 1900 rpm
Maximum torque	<pre>0 1100 rpm</pre>	Net 1650 Nm
TRANSMISSI	ON	
		ZF 6WG260
Type		Powershift
Torque converter		Lock up all gears
Torque converter	ratio	2.08:1
Gears		6 forward/3 reverse
	d travel km/h	Reverse travel km/h
1st	5.4 8.4	5.4 13.2
2nd 3rd	8.4 13.2	30.0
4th	20.5	30.0
5th	30.0	- -
6th	46.6	-
Torque proportion	front/rear	33.3%/66.7%
Drop box		Integrated
Gradeability		40% max. (18°)
BRAKES		
	O n	er wheel (front), 1 per wheel
Dei vice - callipei _		(rear) outboard disc (6)
Parking - calliper	(1) prot	tected disc (1) on drive shaft
Engine Brake	(`)	Turbo brake
Transmission reta	rder (optional)	Turbo brake
TRANSFER B	ΩY	
Mounting		Integral
Ranges		
Front axle interloc	k	Dog Clutch type
FRONT WHEI	EL ENIDS	
Make/model		Kessler R81 PL488
Type		Outboard Planetary
		•
		AR DRIVE AXLES
Make/Model		Kessler D81PL488
Type		Outboard Planetary
AXIE		Limited slip
CHASSIS		
		Front/rear box frame
Linkage		Universal joint
_		-

STEERING/ARTICULAT	ION
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 plue tie-rod
Front suspension	Nitrogen-oil
Rear type	2-Rocking beams
Rear suspension	Rubber bush
LOAD BODY	
Construction	Ribless
Construction  Body tipping angle deg	68°
Body apping ame to raise/ lower	' 13/ 13 Sec
Tip cylinders typePower down	iviuiii stage
Loadover height	2820 mm
Locatover Height	
PAYLOAD	
Payload	28 160 kg
Capacity, struck	13.7 m <sup>3</sup>
Capacity, heaped SAE 2:1	17.6 m <sup>3</sup>
CAPACITIES	
	3801
Fuel tankHydraulic reservoir	2201
Engine oil	30.5
Engine oil Transmission	38 I
Front wheel hubs	3.0 l
Drive axles	
Intermediate	
Rear	131
TYRES	
Rim	5 section
Rim	size 19.5 x 25
Standard tyre	Tubeless 23.5 R25
WEIGHT	
Weight (unladen)	22 570 kg
Front	
Rear	12
Total laden weight	
J -	



# **GENERAL DIMENSIONS 330B**



A Overall height	m	3.65
B Height to side of load body	m	2.92
C Load body width	m	2.96
Height to load bed end	m	2.47
E Ground clearance - rear differential	m	0.47
F Tread width - centre to centre	m	2.36
<b>6</b> Overall width	m	2.96
H Height to top of cab	m	3.62
Approach angle		23°
J Overall length	m	10.03
K Wheelbase	m	5.91
L Ground clearance @ articulation point	m	0.63
M Dump clearance	m	1.00
N Maximum height - dumping position	m	6.31
Rear dumping clearance	m	0.43





Make/Model \_\_\_\_\_

Type\_\_\_\_\_

Axle

<b>ENGINE</b>		CHASSIS	
Model	Case Family IV 13 liter, Tier III certified	Type	Front/rear box frame
Type	4-stroke, variable geometry, irbocharged and air to aircooled diesel	Linkage	Universal joint
tu	rbocharged and air to aircooled diesel	-	•
Injection	Electronic	STEERING/ARTICULATIO	N
Cylinders	In-line 6 135 x 150 mm	Frame connectionBal	I bearing with 2 ball races
Bore/stroke	135 x 150 mm		and 4 spherical joints
Displacement	12.9	Articulation angle degrees	45°
Aftercooler	Yes	Steering turns lock-lock	4.5
Enginepower per SAE J	Yes 1995	Secondary steering type	Ground driven
Gross	410 hp (306 kW) @ 2100 rpm 380 hp (284 kW) @ 2100 rpm		
Net	380 hp (284 kW) @ 2100 rpm	SUSPENSION	
Maximum torque @ 118	30 rpmNet 1850 Nm	Front type	"A" frame plus tie-rod
		Front suspension	Nitrogen-oil
TRANSMISSION		Front suspension Rear type	2-Rocking beams
Model	ZF 6WG310	Rear suspension	Rubber bush
Type	Powershift		
Torque converter	l ock up all gears	LOAD BODY	
Torque converter ratio	1.84:16 forward/3 reverse vel km/h Reverse travel km/h	Construction	Ribless
Gears	6 forward/3 reverse	Body tipping angle deg Body tipping time to raise/lower _	70°
Forward tra	vel km/h Reverse travel km/h	Body tipping time to raise/lower _	11 / 13 sec
1st 5.5	5.5	Tip cylinders type	Multi stage
2nd 8.6	13.4	Power down	Yes, 1st stage
3rd 13.4		Loadover height	3070 mm
4th 20.9			
5th 30.6		PAYLOAD	
6th 47.5		Payload	31 500 kg
Torque proportion front	t/rear33.3%/66.7%	Capacity, struck	15 m³
Drop box	Gearbox Integrated	Capacity, heaped SAE 2:1	20 m <sup>3</sup>
Gradeability	60% max. (27°)		
		CAPACITIES	
BRAKES		Fuel tank	440 l
Service - calliper	2 per wheel front axle and wheel rear axle, outboard dry discs (6)	Hydraulic reservoir	300 l
1 per	wheel rear axle, outboard dry discs (6)	Engine oil	35 l
	tected disc (1) on drive shaft (pneumatic)	Transmission	35.5
	Turbo brake	Front wheel hubs	3.0
Transmission retarder		Front wheel ends	91
TO A NIGHED DOV		Drive axles	
TRANSFER BOX		Intermediate	34
Mounting	Integral	Rear	33 l
Ranges	1	TVDEO	
Front axle interlock	Dog Clutch type	TYRES	
EDONIT MAILEEL E	MDC	Rim	5 section
FRONT WHEEL E	: :-	Rimsize	25 x 22
Make/model	ZF/RP17 Outboard Planetary	Standard tyre	Tubeless 26.5 x R25
Type	Uutboard Planetary	WEIGHT	
INITEDNACDIATE A	AND DEAD DOIVE AVI SC	WEIGHT	00 500 :
	AND REAR DRIVE AXLES	Weight (unladen)	28 500 kg



\_ZF/MT-D3105

\_\_\_\_\_ Outboard Planetary

\_\_\_\_Limited slip

Total laden weight\_\_\_

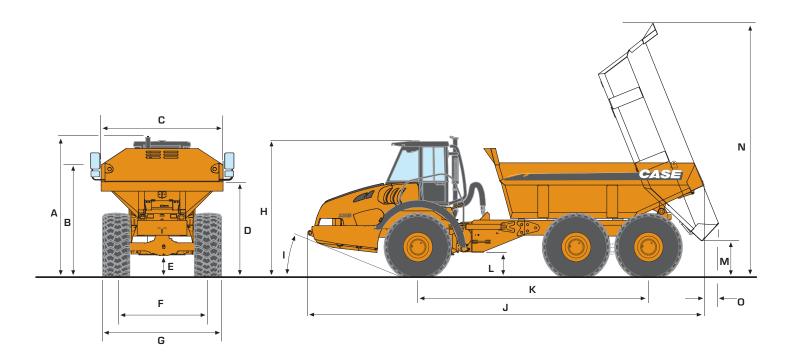
Front \_\_

Rear

14 100 kg

14 400 kg \_60 000 kg

# **GENERAL DIMENSIONS 335B**



		0.00
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
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
Coverall width	m	3.19
H Height to top of cab	m	3.68
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 F Type	amily IV 13 liter, Tier III certified 4-stroke, variable geometry, arged and air to aircooled diesel
turbocha Injection	rged and air to aircooled diesel
Cylinders	In-line 6
Bore/stroke	135 x 150 mm
Displacement Aftercooler	12.9 l Yes
Enginepower per SAE J1995	
Gross	456 hp (340 kW) @ 2000 rpm 426 hp (318 kW) @ 2000 rpm
Net	.426 hp (318 kW) @ 2000 rpm
iviaximum torque @ 1100 rpm	Net 2000 Nm
TRANSMISSION	
Model	ZF 6WG310
Torque converter	Powershift Lock up all gears
Torque converter ratio	1.84:1
Gears	
1st 5.9	5.9
2nd 9.1	14.3
3rd 14.3 4th 22.2	32.6
5th 32.6	- -
6th 50.6	-
Torque proportion front/rear	33.3%/66.7%
Gradeability	Gearbox Integrated 60% max. (27°)
BRAKES	NAMES IN ASSOCIATION OF THE PROPERTY OF THE PR
Parking - calliper (1) protected (	Multiple discs, oil cooled disc (1) on drive shaft (pneumatic)
Engine Brake	Turbo brake
Transmission retarder	
TRANSFER BOX	
Mounting	Integral
Ranges	1 Dog Clutch type
	Dog Clutch type
FRONT WHEEL ENDS	
Make/model	ZF/RP17 Outboard Planetary
INTERMEDIATE AND I	
Make/Model	

Type\_ Axle

#### **CHASSIS** Type\_\_\_ \_Front/rear box frame Linkage\_\_\_ \_\_\_\_Universal joint

#### STEERING/ARTICULATION Frame connection \_\_\_\_\_\_Ball bearing with 2 ball races and 4 spherical joints \_\_\_\_45° Articulation angle degrees \_\_ Steering turns lock-lock \_\_\_ 4.5 \_\_\_\_Ground driven Secondary steering type\_\_\_

### **SUSPENSION**

_ "A" frame plus tie-rod
Nitrogen-oil
2-Rocking beams
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 m <sup>3</sup>
Capacity, heaped SAE 2:1	22 m³

CAPACITIES	
Fuel tank	440
Hydraulic reservoir	
Engine oil	
Transmission	35.5 I
Front wheel hubs	91
Drive axles	
Intermediate	34 I
Rear	33

#### **TYRES**

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

#### **WEIGHT**

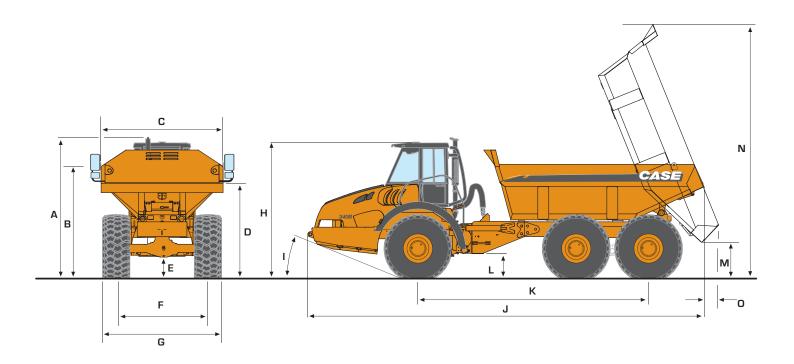
\_\_\_\_\_ Outboard Planetary

Limited slip

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
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

- 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

- 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

Flow amplified steering

- Hydraulic diagnostic quick couplers
- 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

Transmission

#### For 330B

Hydraulic retarder

Operator's environment

Rotating Beacon

- Closed circuit TV (rear view camera & monitor)
  - Miscellaneous
- Ground line start
- 4 Work lights cab mounted
- Radio
- For 327B/330B Auto lube system
- For 330B/335B/340B Auto warm up with retarder
- For 335B/340B Auxiliary Tipping Brake
- For 330B Wet brakes, oil cooled

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

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



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

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