G-SERIES WHEEL LOADERS 721G I 821G

STAGE V





MOVING MOUNTAINS

www.casece.com **EXPERTS FOR THE REAL WORLD SINCE 1842**



EXPERTS FOR THE REAL WORLD

SINCE 1842

- 1842 CASE is founded.
- 1869 The first CASE portable steam engine road construction is born!
- 1958 The first CASE 4-WD wheel loader, the W9, is introduced.
- 1969 CASE begins skid steer loader production.
- 1998 Ride control on loader backhoes and skid steer loaders: another CASE first. From 1998 CASE Wheel Loaders run FPT engines, leaders in industrial engine technology.
- **2001** The exclusive mid-mounted Cooling Cube in CASE wheel loaders means clean engine, reliability and massive bucket payloads.

HERITAGE A TRADITION OF INDUSTRY FIRSTS



- 2011 CASE is the first in the industry to launch a 5-speed lock up transmission
- **2012** CASE completes its EU Stage IIIB wheel loader range: a further step forward in emissions reduction and once again the first in the industry.
- **2015** CASE wheel loaders achieve EU Stage IV emissions standards while further increasing fuel efficiency without a DPF.
- 2017 New G series wheel loaders are launched.
- 2019 CASE begins introducing Stage V models in Europe, still without traditional DPF. CASE shows, for the first time ever in the industry, the concept of a Compressed Natural Gas (CNG) wheel loader: ProjectTETRA.





HIGH EFFICIENCY

with no EGR

The engine was developed and manufactured by our award winning sister company FPT Industrial, which produces over 500,000 engines per year and powers world record winners.

The in-house design leverages advanced technologies developed for commercial vehicles and agriculture, and introduces specific tailored solutions for off-road applications.

The NEF N67, with 6 in-line cylinders and a 6.7 litre displacement, is designed to offer both fuel efficiency and reliability with plenty of power available.

- The air intake flow is increased by a turbocharger with air-to-air cooling.
- The multiple injection delivers best-in-class high torque performance at low rpms.
- No EGR valve is used: 100% fresh air is taken for combustion without traditional DPF and no extra cooling system is needed.

Our engine technology is so reliable that it is trusted by the French Sea Rescue service for their boats: what better guarantee could you wish for?



ENGINE KEEP IT SIMPLE





LOW EMISSIONS

Maintenance-free, built-for-life



To maintain the advantages of the unique and unbeaten HI-eSCR technology, FPT Industrial integrated a maintenance-free device on its SCR catalyst, thus allowing to comply with tightened limits on PM emissions within a compact package. This allows for a very compact engine compartment, resulting in excellent rear visibility. In addition, the maximum temperature reached during normal operating conditions by HI-eSCR 2 is still on average 200° C below a traditional particulate filter.



FPT's Stage V Solution:

- High Performance
- Low Operating Costs
- · Ease of Use

In addition to traditional diesel, the Stage V NEF engines are capable of running also on B7 biodiesel, as well as HVO diesel (an even cleaner and more high-quality alternative to biodiesel, with superior performances in cold weathers).

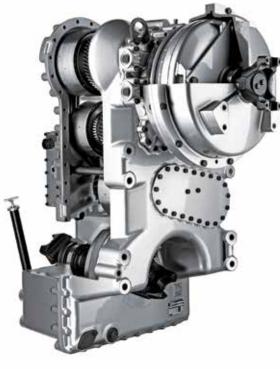
G-SERIES

WHEEL LOADERS











HIGH EFFICIENCY

ProShift transmission

ProShift transmission provides on average 1.5 litre/hour fuel saving and up to 20% faster cycle time. This is the result of three premium features:

1. 5-speed transmission

The 5 speeds allow to always work at lower rev's compared to 4-speed transmission. Lower rev's result in lower fuel usage. When the ECO mode is selected not only the engine gives priority to fuel efficiency but also the transmission shifts at lower rev's in order to increase fuel efficiency and noise emission.

2. Torque converter lock-up

Wheel loaders continuously shift gears and every time diesel saving is achieved with:

- Torque converter lock-up that kills viscous losses from 2nd up to 5th gear
- Engine de-rating during gear shifts that kills torque peaks in the clutch and contributes to lower fuel usage

PROSHIFT TRANSMISSION GO FASTER, STAY EFFICIENT





EASY TO USE

Intelligent Clutch Cut off with Power Inch

3.Power Inch

With Power Inch, positioning the loader is as smooth as with a hydrostatic transmission, with the added advantage of massive pushing power delivered by the torque converter. This also prevents rolling back on slopes.

The automatic start of the transmission in 2nd gear reduces operator fatigue, fuel usage and stress on the torque converter. With the further enhancement of a torque-based 2- to-1 downshift, the transmission will downshift automatically based on machine load or manually with the kick-down button located on the joystick.



HIGH RELIABILITY

Heavy-duty axles

The heavy-duty axles are tougher, bigger and easier to service thanks to the 3-piece housing design. Wet multiple disc brakes, made of resistant sintered bronze, are located in each wheel hub. Our heavy-duty axles are engineered to support L5 or solid tyres for very abrasive environments. Solid tyres can be factory fitted.

A higher value results from:

- 20-30% lower tyre wear because of no slippage between the wheels.
- reduced fuel consumption because there is no friction in the differential.
- reduced downtime for maintenance because of fewer moving components with open differentials.





COST SAVINGS

100% auto-lock differential

With open differentials, no friction is applied to reduce wheel slip. As a result, there is less tyre wear and lower energy losses.

With the 100% auto-lock, 100% of the available torque is transmitted to the wheels to provide maximum tractive effort.



Loading on soft ground

With limited slip differential:



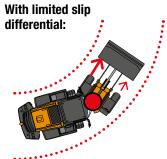
- 70% tractive effort transmitted to the wheels
- Automatic engagement

With 100% diff lock (optional):



- 100% tractive effort transmitted to the wheels
- Automatic or manual engagement

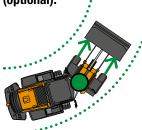
Taking a curve on solid ground



Automatic slip limited engagement

- Internal losses and wind up
- Increased tyre wear

With 100% diff lock (optional):



No engagement (open diff)

- No energy loss
- Less tyre wear

CASE COOLING CUBE

THE ANTI-CLOGGING SOLUTION



HIGH RELIABILITY

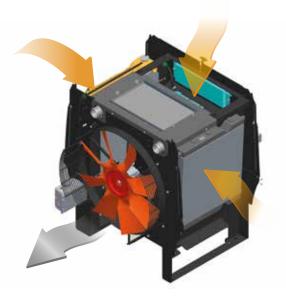
CASE cooling cube

The unique design of the CASE cooling cube, with five radiators mounted to form a cube instead of overlapping, ensures a constant flow of fresh and clean air from the sides and from the top, to maintain constant fluid temperatures.

The cube structure provides easy access to radiators for a more effective cleaning and serviceability: additional cleaning can also be easily done manually, with separate access to each radiator.

Designed for dusty environment

The cooling system is mounted behind the cab, far from the rear bumper of the machine and from the ground: away from the dust.





SUPERIOR COOLING EFFECTIVENESS

Heavy-duty cooling

Handling fertilizer, cereals, animal feed or other materials indoors usually leads to radiator clogging. CASE's solution is the heavy-duty cooling option, which features:

- Extra thin inlet grille that stops bigger particles.
- Sealed radiator covers that ensure the cooling air is 100% filtered.
- Wide core radiators increase self cleaning with the reversible fan and prevent clogging.



HEAVY-DUTY GRILLE OUTSIDE

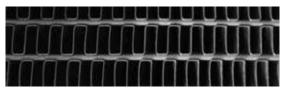


Heavy-duty



Standard

HEAVY-DUTY COOLERS INSIDE



Heavy-duty



Standard





THE ULTIMATE COMFORT





Front visibility

• The one-piece design windshield provides an unobstructed panoramic view.

Rear Visibility

• Multiple rear view convex mirrors, a rear view display, the slim engine hood and rear grid defroster ensure optimum rear visibility.

Night Visibility

• LED lighting is so effective that you won't see any difference between night and day work.

OPERATOR PROTECTION

Noise and vibration

- The new active suspension premium seat features electronic auto-weight adjustment, a dynamic dampening system and a low frequency shock absorption system. Combined with the suspended cab mount and the positioning of the engine at the rear, this reduces the noise and vibrations the operator is subjected to.
- Noise in the cab is not only low (68 dB): it also sounds great.

Cab air

 Primary and recirculation filtration efficiency now reaches 99% of particles with improved dust capacity and longer replacement intervals. When working in particularly tough conditions, additional active carbon filters can be fitted.

Cab access

Access is easier and safer thanks to the optimised handrails and the pull-type handle.

OPERATING COMFORT

Seat and controls

- The seat mounted armrest gives more accurate control and comfort. It features 3rd/4th function proportional control integrated in the joystick, as well as the option of replacing the joystick with two or three (for the 3rd function) fingertip levers.
- New joystick steering: the operator handles two equally sized joysticks, just like on an excavator, which reduces fatigue. It features speed proportional sensitivity and slow/medium/fast settings.
- The suspended seat includes seat heaters which warm it up in the cold winter mornings.

User interface

- The premium control interface with 8" color display offers intuitive navigation through the machine's information and settings.
- The hands free calling kit features an integrated microphone connected to the radio via Bluetooth.

Life on board

- The CASE electrically powered cool box keeps your lunch fresh all day long.
- Multiple storage areas enable you to store documents, beverages and personal objects conveniently.

MAINTENANCE AND ADDITIONAL OPTIONS

EASINESS AND PROTECTION



The layout of the components under the hood is optimised and results in easier maintenance



Hood opening and battery on/off switches. In case of flat battery, hood can be opened externally with remote jump start



Grouped drains for clean and quick oil changes



SAFE AND EASY MAINTENANCE

Ground level serviceability

One-piece electric hood

The positioning of the engine at the rear and the easy-to-open electric hood provide fast access to the service points. Jumper cables are available as standard for jump starting the engine if the battery is low.

· Grouped service points

Don't be surprised if you don't see any safety handrails around the hood or steps behind the rear wheels, all service points are easily accessible at ground level. You can do a fast visual check of the hydraulic and transmission oil levels. The three drains are grouped together on the left side, so that fluids are easy and guick to replace.

Greater safety

All the main service points are easily accessible from the ground, so you can carry out your daily maintenance safely and efficiently.

Waste Handler guards for 721G and 821G



















MAIN REASONS

TO CHOOSE THE G-SERIES



OPERATOR PROTECTION

- Viscous cab suspension
- Pressurized cab with high efficiency filtration
- Low noise (68 dB) and vibration



BEST-IN-CLASS VISIBILITY

 One-piece design windshield, highefficiency lighting, convex rear mirrors and rear view camera provide optimum visibility 24 hours a day



HIGH PRODUCTIVITY

- Up to 38% payload-to-weight ratio
- Best-in-class breakout force





HIGH EFFICIENCY

- Optimized combustion efficiency with Hi-eSCR 2
- Optimized power transmission with 5-speed transmission and lock-up clutch



TELEMATICS ANTICIPATION AND CONTROL



THE SCIENCE BIT

The CASE SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the CASE Telematics Web Portal.

SiteWatch: centralised fleet control benefits at your fingertips

Measure your true asset availability and optimise it

- Eliminate the "phantom fleet": SiteWatch allows to identify spare units or under loaded machines on each site.
- Become able to reallocate units where they are more needed.
- Forward maintenance planning is easier since the actualised working hours are always available.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you choose the right equipment.
- Save on transport costs with planned and grouped maintenance tasks.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can for example be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return on Investment on different sites.
- Your equipment is used only during working hours. You can set up alerts so that you know if it is in use during the weekend or at night.
- Integrate with the programmed maintenance package, so that you can be sure every machine is at the right place at the right time.

More safety, lower insurance premium

- Keep thieves away: dissuade them from attacking your asset because it is geo-localised. SiteWatch is hidden so that thieves can't find it quickly.
- Your fleet is used only where you decide. You can define a virtual fence and receive an email when a machine exits that perimeter.





SPECIFICATIONS

ENGINE	721G	821G	BRAKES	721G	821G
FPT engine	N67	N67	Service brake	Maintenance free	e, self-adiusting
Cylinders	6	6		wet 4-wheel disc	
Displacement (I)	6.7	6.7	Brake disc area (m²/hub)	1	0.39
Air intake		h air-to-air cooling.	Parking brake	With the negative	
		ısed: Only fresh air	•	wheels are autor	
	is taken for comb	oustion and no		when the engine	is stopped.
	extra cooling sys	tem is needed.	Parking disc brake area (cm²)	82	82
Injection	Common Rail Mu	ıltiple Injection.	. ,	•	
After Treatment System	HI-eSCR 2 (DOC-	+SCRoF)	HYDRAULICS		
Emission level	Compliant with E	U Stage V			
Max. power (kW)	145	172	Valves	_ Rexroth Closed-c	,
Max. power (hp)	195	230		sensing hydraulic	
(@rpm)	2000	1800		Main valve with 3	
(ISO 14396)			Steering	The steering orbi	
Max. torque (Nm)	950	1184		is actuated with	
(@rpm)	1300	1300	Automatic functions	Bucket Return-to	
(ISO 14396)			0	Return-to-travel,	
			Control type		single joystick or
TRANSMISSION				two/three levers.	
		databas Parkas tara	Type of pump	_ Tandem variable	•
ProShift: 5-speed powershift with lock up (c		ciutch eliminates	(1/:-)	pump (single pur	
torque converter losses from second gear up		al da alokabina	(I/min)	_ 206	236
Intelligent Clutch Cut Off (ICCO) with Powe	r inch: Proportiona	ai deciutening	(@rpm)	_ 2000	2000
depending on braking intensity.	1-7	17	ALIVII LADVIIVDD ALII I	OIDOUIT	
Forward 2 (km/h)	7	7	AUXILIARY HYDRAULIO	<i>i</i> CIKCUII	
Forward 2 (km/h)	13	11	Max flow (I/min)	lone	236
Forward 4 (km/h)	19	17	Max pressure (bar)	- 206 - 249-255	249-255
Forward 5 (km/h)	30	26	max procedure (sar)	- 249-200	249-200
Forward 5 (km/h)	40	40	SERVICE CAPACITIES		
Reverse 1 (km/h) Reverse 2 (km/h)	8 14	12	SERVICE CAPACITIES		
Reverse 3 (km/h)	31	28	Fuel tank (I)	_ 246	288
4-speed ZF Powershift with Intelligent Clut		20	AdBlue tank (I)	41.3	41.3
Forward 1 (km/h)	1 ' '	1-7	Cooling system (I)	_ 28	30
Forward 2 (km/h)	8	7	Engine oil (I)	13	13
Forward 3 (km/h)		12	Hydraulic oil tank (I)	_ 91	91
Forward 4 (km/h)		23	Total hydraulic system oil (I)	_ 180	180
Reverse 1 (km/h)		37	Front and Rear Axles (I)	35+35	40+40
Reverse 2 (km/h)	0	7	Transmission oil (I)	_ 34	34
Reverse 3 (km/h)	26	13 25			
110 V 01 00 0 (1111/11)	20	20	CAB PROTECTION		
AXLES AND DIFFERENT	ΓΙΔΙ		Protection against falling objects (FOPS) _	ISO EN34	49
			Protection against roll over (ROPS)	ISO EN13/	
Rear axle total oscillation			1 Totobuori against foil over (nor o)	100 LIV100	710
Heavy-duty ZF axles			NOISE AND VIBRATION	1	
	automatic 100%	-	In the cab - LpA (dB)		68
		tial. 100% tractive	(ISO 6396: 2008)	- 00	100
	effort always, no	wheel slip, less	Outside - LwA (dB)	_ 103	104
	tire wear.		(2000/14/EC)	- 103	104
Standard ZF axles		differentials front	Vibrations	Operator 's seat r	neets the criteria
	and rear 73% tra	active effort on		of ISO 7096:2000	
	slippery ground.				ot exceed 0.5 m/s ²
TVD=0					5
TYRES			ELECTRICAL SYSTEM		
Tyres	00 5005	מס בחסב			

23.5R25

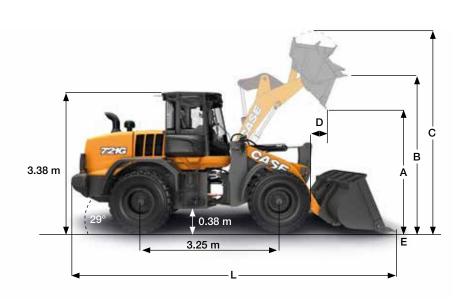
24V. Batteries 2 x 12V.

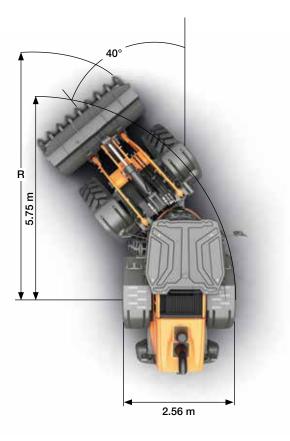
Alternator (A) _____ |120

Tyres_____| 20.5R25

120

721G GENERAL DIMENSIONS





LOADER SPEED:

Raising time (loaded)	5.2 sec			
Dump time (loaded)	1.2 sec			
Lowering time (empty, power down)	2.5 sec			
Lowering time (empty, float down)	2.4 sec			

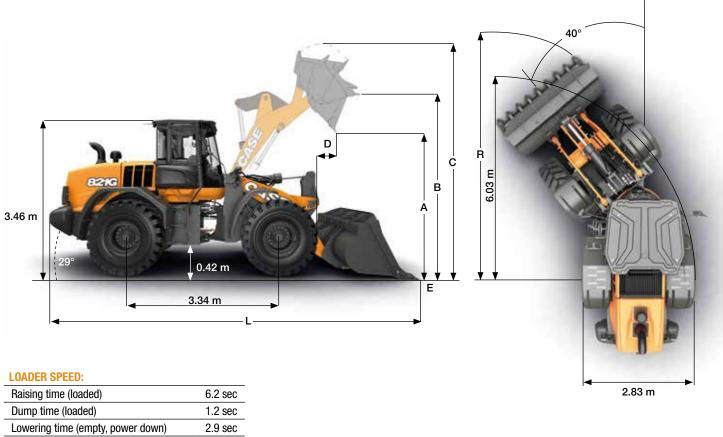
		Z-bar bucket				XR bucket				XT bucket	
721G		2.8 m³ pin-on		2.7 m³ w/QC		2.8 m³ pin-on		2.7m³ w/QC		2.7 m³ w/QC	
		edge	teeth + segments	edge	teeth + segments	edge	teeth + segments	edge	teeth + segments	edge	teeth + segments
Bucket volume (heaped)	m³	2.8	2.8	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7
Bucket volume at 110% filling rate	m³	3.1	3.1	3.0	2.9	3.1	3.1	3.0	2.9	3.0	2.9
Bucket Payload	kg	5495	5440	4765	4730	4580	4535	3985	4035	4270	4230
Maximum material density (100% filling rate)	ton/m³	1.95	1.95	1.76	1.77	1.62	1.63	1.47	1.51	1.58	1.58
Bucket outside width	m	2.71	2.726	2.69	2.69	2.71	2.726	2.69	2.69	2.49	2.51
Bucket weight	kg	1220	1305	1705	1765	1220	1305	1705	1765	1634	1693
Tipping load - straight	kg	12640	12530	11040	10980	10610	10520	9300	9410	9890	9820
Tipping load - Articulated at 40°	kg	10990	10880	9530	9460	9160	9070	7970	8070	8540	8460
Breakout force	kg	14600	15000	12130	12430	14540	14940	11990	12290	11940	12240
Lift capacity from ground	kg	13710	13620	12440	12400	11370	11280	10345	10360	13920	13720
A Dump height at 45° at full height	m	2.92	2.82	2.73	2.63	3.33	3.26	3.13	3.02	2.8	2.69
B Hinge pin height	m	3.979	3.979	3.98	3.98	4.37	4.37	4.37	4.37	4.16	4.16
C Overall height	m	5.32	5.32	5.53	5.53	5.91	5.91	5.93	5.93	5.58	5.58
D Bucket reach at full height	m	1.12	1.22	1.17	1.25	1.13	1.21	1.17	1.26	1.16	1.25
E Dig depth	cm	8	9	7	8	8	8	7	8	12	14
L Overall length with bucket on the ground	m	7.65	7.80	7.84	7.98	8.00	8.15	8.20	8.34	8.00	8.14
Overall length without bucket	m	6.53	6.53	6.53	6.53	6.85	6.85	6.85	6.85	6.52	6.52
R Turning radius to front corner of the bucket	m	6.32	6.38	6.41	6.46	6.52	6.58	6.59	6.65	6.41	6.46
Bucket rollback in carry position	0	44°	44°	38°	38°	43	43	37°	37°	61°	61°
Dump angle at full height	0	50°	50°	51°	51°	50	50	51°	51°	47°	47°
Machine operating weight with XHA2 (L3) tyres	kg	14770	14850	15290	15370	14970	14990	15490	15570	15390	15470
Machine operating weight with VSDL (L5) tyres	kg	15469	15549	15989	16069	15669	15689	16189	16269	16089	16169

SPECIFICATIONS

821G GENERAL DIMENSIONS

Lowering time (empty, float down)

2.5 sec



			Z-bar bucket				XR bucket				
	821G		3.4 m³ pin-on		3.2 m³ pin-on		3.2 m³ pin-on		2.8 m³ pin-on		
			edge	teeth + segments							
	Volume, heaped (heaped)	m^3	3.4	3.4	3.2	3.2	3.2	3.2	2.8	2.8	
	Bucket volume at 110% filling rate	m^3	3.8	3.8	3.5	3.5	3.5	3.5	3.1	3.1	
	Bucket Payload	kg	6390	6335	6405	6350	5080	5030	5185	5135	
	Maximum material density	ton/m ³	1.87	1.85	2.00	1.98	1.59	1.57	1.85	1.83	
	Bucket outside width	m	2.95	2.98	2.95	2.98	2.95	2.98	2.95	2.98	
	Bucket weight	kg	1570	1650	1540	1620	1540	1620	1390	1470	
	Tipping load - straight	kg	14670	14570	14700	14600	11750	11650	11970	11870	
	Tipping load - Articulated at 40°	kg	12780	12670	12810	12700	10160	10060	10370	10270	
	Breakout force	kg	15040	15400	15440	15800	15700	16060	18020	18530	
	Lift capacity from ground	kg	17720	17630	18050	17960	13900	13810	14140	14050	
Α	Dump height at 45° at full height	m	2.94	2.86	2.96	2.87	3.39	3.31	3.51	3.43	
В	Hinge pin height	m	4.12	4.11	4.12	4.12	4.56	4.56	4.56	4.56	
С	Overall height	m	5.49	5.49	5.45	5.45	5.89	5.89	5.74	5.74	
D	Bucket reach at full height	m	1.16	1.24	1.14	1.22	1.25	1.33	1.14	1.22	
Е	Dig depth	cm	7	8	7	8	14	15	13	14	
L	Overall length with bucket on the ground	m	8.08	8.2	8.05	8.17	8.53	8.66	8.36	8.48	
	Overall length without bucket	m	6.78	6.78	6.78	6.78	7.24	7.24	7.24	7.24	
R	Turning radius to front corner of the bucket	m	6.63	6.68	6.62	6.67	6.87	6.93	6.81	6.87	
	Bucket rollback in carry position	0	45°	45°	45°	45°	43°	43°	43°	43°	
	Dump angle at full height	0	55°	55°	55°	55°	49°	49°	49°	49°	
	Machine operating weight with XHA2 (L3) tyres	kg	18200	18280	18170	18250	18440	18520	18280	18360	
	Machine operating weight with VSDL (L5) tyres	kg	19098	19178	19068	19148	19338	19418	19178	19258	

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CASE CUSTOMER CENTRE PARIS RN 330 - Penchard 77122 - Monthyon FRANCE CNH INDUSTRIAL - MIDDLE EAST DAFZA - Dubai Airport Free Zone West Wing 4 B, Office 642 P.O. Box 54588, Dubai, UNITED ARAB EMIRATES

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 Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 2006/42/EC



The call is free from a land line. Check in advance with your Mobile Operator if you will be charged. Toll free number not available from all calling areas.