

Wheel Loaders

G-SERIES EVOLUTION

521G | 621G | **651G** | 721G
821G | 921G | 1021G | 1121G



CASE
CONSTRUCTION



651G

CASE

CASE
4x4

CONTINUALLY EVOLVING.

THE UPGRADED G-SERIES EVOLUTION RANGE

CASE is excited to welcome new model 651G, with enhanced loading performance, and updated mid-sized models 721G, 821G and 921G, whose improved tipping loads and bucket dump heights bring them to the top of their categories for productivity.



FEATURES DESIGNED FOR YOU.

DELIVERING BUCKETS OF ENHANCEMENTS

With higher payload and dump height, new buckets and heavy duty axles as standard, the mid-size models' loading performance now rivals that of the best-in-class machines on the market.

HIGHER PAYLOAD

Reinforced chassis (651G-921G) enhance reliability and durability, with a slightly higher operating weight significantly increasing tipping load.

NEW REHANDLING BUCKETS

More capable buckets (651G-921G) enable higher penetration, higher capacity and better material retention. In other words: HIGHER PRODUCTIVITY.

ENHANCED DUMP HEIGHT

Increased dump height means more flexibility loading high-sided trucks, hoppers, etc., while maintaining great kinematic performance.

STANDARD HEAVY-DUTY AXLES

Mid-sized models come with heavy duty axles as standard, with flexible front/rear differential combinations:

- 100% lock front / rear open diff;
- 100% lock front / limited slip rear;
- Limited slip front and rear.



YOUR EQUIPMENT, YOUR PARTNER.

SIX REASONS WHY WHEEL LOADERS ARE MADE FOR YOU

1

SUSTAINABLE POWER

FPT Stage V engines;
Waste gate (521G-921G)
Variable geometry turbo
(1021G-1121G);
High pressure common rail
electronic injection;
HI-eSCR2 after treatment system;
HVO and XTL synthetic oil
compatible.

2

POWERFUL DRIVELINE

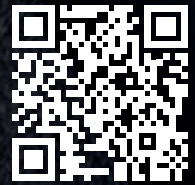
ZF Ergopower transmission
5-speed with torque converter
lock-up and intelligent clutch cut-off
available (621G-921G);
Heavy duty axles as standard,
with various front/rear differential
combinations.

3

EFFORTLESS OPERATION

Intuitive touchscreen display;
Easily set boom and bucket
automatic positioning;
Configurable buttons;
Integrated payload scale with tip-off
function available;
Optional tyre pressure monitoring
system.





WATCH THE FULL
WALKAROUND



4 EXCEPTIONAL EFFICIENCY

Rear engine position for optimal weight distribution (521G-921G);
High tipping load;
Noticeable fuel efficiency;
New rehandling buckets;
High efficiency “cube design” cooling system.

5 EXTRAORDINARY CONNECTIVITY

Continuous machine health monitoring via SiteConnect;
Remote diagnosis and updates possible via SiteManager app;
Easy fleet management with SiteWatch™, e.g. reports sent to computer via telematics.

6 MAXIMISED UPTIME

Maintenance and refill points reachable from the ground;
1,000-hour service intervals;
Service alerts generated when maintenance interval due to expire;
CaseCare and CaseProtect programmes available.

BE PRODUCTIVE IN COMFORT

FULL FUNCTIONALITY AT YOUR FINGERTIPS

Comfort and safety are top priorities for CASE, so all its wheel loaders are equipped with a spacious ROPS/FOPS level 2 certified cab, letting you get on with the job at hand untroubled.





OUR CUSTOMERS'
VOICES

TOUCHSCREEN DISPLAY

Take control of all the machine's functionality with the touchscreen display, with new features designed to enhance driver experience.

NEW FEATURES

Fixed rpm engine speed setting;
Ride control engagement speed setting.

Plus recent additions:

Digital operator's manual;
Adjustable EH controls response;
New power modes;
Configurable buttons.

SUPERIOR COMFORT

Seat-mounted console;
Touchscreen display;
Configurable buttons;
Hands-free calling kit;
Multiple storage areas;
Active suspension premium seat;
Rubber steering stops on frame articulation.

ENHANCED CONNECTIVITY

CASE dealer alerts, plus recommendations and actions;
Payload ticket reports available on SiteWatch™ portal;
Enhanced machine utilisation reporting;
Remote assistance via CASE SiteManager app.

TIRE PRESSURE MONITORING

Optimise tyre pressure, reduce wear and extend tyre life with the optional integrated tyre pressure monitoring system.

INTEGRATED WEIGH LOAD SCALE

Read and log every bucketload with the new weigh load scale. Optimise job reports with complete sets of data, then send them straight to your desk via the SiteWatch™ portal.

BEST-IN-CLASS VISIBILITY

Optimum visibility 24 hours a day with one-piece windshield design, high-efficiency lighting, and rear-view camera (standard);
Follow-me-home LED lights with customisable lights-on duration.

BOOSTED EFFICIENCY

HI-eSCR2 for efficient combustion;
5-speed gearbox and converter lock-up (621G-921G);
Smart power mode for best engine power curve and transmission gear shifting threshold combination.



CLEANER, GREENER POWER.

SUSTAINABILITY CHANGES THE WORLD

CASE wheel loaders feature advanced in-house engine technology developed by our sister company FPT Industrial. Pioneering low-emission, high-efficiency solutions, FPT reliably delivers high performance with low operating costs.



Turbocharged, multiple injection high pressure common rail engines:
4.5 litres on 521G;
6.7 litres on 621G-921G;
8.7 litres on 1021G-1121G.



Waste gate (521G-921G) and variable geometry turbo (1021G-1121G) for optimum pressure stability.



EU Stage V compliant with exclusive HI-eSCR2 after treatment system. EGR free, built for life and maintenance free.



Compatible with HVO and XTL synthetic fuels (CTL, BTL, GTL) for sustainable options.

MAINTAIN TOP PERFORMANCE.

AFTER SALES SERVICES

Keep your equipment performing at its best and protect your investment's value with the extensive offering of high-quality CASE Parts.

Genuine Parts HIGH PERFORMANCE

Optimize your performance and add value to your machine with high-quality genuine parts.

Attachments BUSINESS SOLUTIONS

Add versatility to performance with CASE attachments designed for CASE machines and tested by CASE engineers.

FLEETPRO

Ensure your machine's performance beyond warranty and manage your budget with CASE's quality second-line range of parts.

Reman Parts REMANUFACTURED

Choose sustainable quality with remanufactured parts designed for CASE equipment of all ages.

CASE **ServiceSolutions**

Enjoy the peace of mind of knowing CASE Service Solutions will keep your equipment in top condition with maximum uptime, no unexpected costs, and help you optimize your profitability.



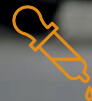
CASE CARE

Maximize your machine's uptime and efficiency with this planned maintenance program.



CASE PROTECT

Avoid unexpected costs with this extended warranty program.



CASE FLUID ANALYSIS

Ensure your machine's uptime with detailed fluid reporting.



CASE SITEWATCH

Boost your machine's profitability by tracking and managing your fleet's operating data.

CASE SITECONNECT

Connects your Dealer to your machine for remote support.



STANDARD AND OPTIONS

COMMON FEATURES - FULL RANGE

OPERATOR

Cab air conditioning	●
8" full color touchscreen multifunction display	●
Adjustable seat-mounted electro-hydraulic controls r.h. console	●
Three configurable buttons (quick recall of favorite pages on display)	●
Ride control engagement speed setting (push-button on keypad)	●
Engine throttle lock speed setting (push-button on keypad)	●
Rear window defrosting grid	●
Cab pressurization from the 1 st fan speed	●
ROPS (ISO EN13510) and FOPS (ISO EN3449) cab protection	●
Password-protected ignition mode	●
Roof-integrated microphone for hand-free calls (Bluetooth radio requested)	●
USB and AUX ports	●
Multiple storage compartments and cup holder	●
Documents holder	●
Convenience kit including: <ul style="list-style-type: none"> • Rear sunshade • Tray under seat COMPARTMENT • Additional 24V socket • 2nd internal rear-view mirror (left side) • Two coat hooks 	○
Two external rear-view mirror	●
Two external heated rear-view mirror	○
Standard seat, heated, air-suspended with high backrest and headrest, cloth coated	●
Premium seat including: <ul style="list-style-type: none"> • Active air suspension • Partial leather coating • Wider seat cushion (+ 40 mm) • High backrest with headrest • Wide armrests • Automatic weight adjustment • Low frequency shock absorber • Seat heating • Horizontal shock absorber 	○
2" High visibility 2-points seatbelt	●
Radio ready (including wiring and speakers)	●
AM/FM Radio with Bluetooth	○
Rotating beacon	○
Rear-view camera (image automatically displayed when reverse gear is engaged)	●
Joystick, electro-hydraulic, 2 functions	●
Joystick, electro-hydraulic, 3 functions (3 rd function controlled by one slider on joystick)	○
Joystick, electro-hydraulic (4 functions, 3 rd & 4 th functions controlled by two sliders on joystick)	○
Three single axis levers, finger-tip type	○
Automatic return-to-dig function adjustable from push-button in the cab	●
Automatic boom height stop adjustable from push-button in the cab	●
Automatic return-to-travel function adjustable from push-button in the cab	●
Standard steering wheel	●
Joystick steering (in addition to standard steering wheel)	○
Integrated payload system with automatic tip-off function, data transmitted in real time to the Customer Portal via SiteWatch™	○
Integrated Tire Pressure Monitoring System	○
Halogen working lights: 2 front + 2 rear	●
LED working lights: 2 front + 2 rear	○
LED working lights: 4 front + 2 rear	○



DEEP DIVE INTO
THE FULL SPECS

COMMON FEATURES - FULL RANGE	
OPERATOR COMPARTMENT	
LED working lights: 2 front + 2 rear	○
LED working lights: 4 front + 2 rear	○
LED working lights: 6 front + 4 rear	○
Halogen driving lights	●
LED driving lights	○
ROAD HOMOLOGATION (1121G EXCLUDED)	
Italian road homologation	○
German/Dutch road homologation (40km/h)	○
Italian road homologation for ag tires	○
German/Dutch road homologation (40km/h) ag tires	○
Swedish road homologation	○
CONNECTIVITY	
Advanced connectivity (Dealer dashboard, machine health parameter, maintenance & repair alerts, remote diagnosis)	●
3-Years SiteWatch™ Portal subscription (Fleet management, real-time payload reports, etc.)	●
MISCELLANEOUS	
Fire extinguisher	○
Empty toolbox	○
Retrieval hitch, mandatory as per EN474	●
Wheel chocks	○
Wide fenders w/lh-rh steps, Swedish homologation	○
Steps on both sides, with full fenders	○
License plate support	○
Side covers on rear chassis	○
Bottom cover (skid plate) on rear chassis	○
Front chassis guard	○
Counterweight, standard	●
Counterweight, heavy-duty	○
Waste handler guards' package, including:	
• Frame articulation covers	
• Front chassis cover	
• Transmission bottom guard	
• Front chassis bottom guard	
• Hydraulic cylinder guard	○
• Front frame debris ejectors (boom cylinder's room)	
• Front driving lights protection grids	
• Rear driving lights protection grids	
• Fuel tank bottom guard	
<i>Note: available on 621G, 651G, 721G, 821G, 921G</i>	
Front windshield protection grid	○
Automatic lubrication system	○
Engine compartment hood electrically openable (521G excluded)	●
External fluids drain ports (engine oil, engine coolant, hydraulic oil)	●
HYDRAULICS / STEERING	
Electrical secondary emergency steering	●
Load sensing variable displacement pump	●
3-Spool load sensing control valve	●
4 th Hydraulic function	○
Loader arm suspension (ride control)	●
Quick coupler dedicated circuit	○

● Standard | ○ options | - N/A

STANDARD AND OPTIONS - 521G - 621G

FEATURES	521G		621G	
	Z-BAR/XR	XT	Z-BAR/XR	XT
ENGINE				
Engine FPT N45 Stage V	●	●	-	-
Engine FPT N67 Stage V	-	-	●	●
Exhaust gases after-treatment Selective Catalyst Reduction on Filter	●	●	●	●
Engine working modes selection (Smart/Max)	●	●	●	●
Air intake rain cap cover (no pre-cleaner)	●	●	●	●
Air intake pre-cleaner	○	○	○	○
Air intake pre-cleaner with dust ejector (Sy-Klone)	○	○	○	○
Standard weather start package	●	●	●	●
Cold weather start package	○	○	○	○
Standard weather package with biodegradable hydraulic oil	○	○	○	○
Cold weather package with biodegradable hydraulic oil	○	○	○	○
Exclusive cooling radiators package (cooling cube) with variable speed reversible hydraulic-driven fan	●	●	●	●
Heavy duty cooling cube, wider radiators cores with variable speed reversible hydraulic-driven fan	○	○	○	○
Remote jump start	●	●	●	●
TRANSMISSION & AXLES				
Powershift Transmission, automatic control 4-speed forward / 3-speed reverse	●	●	●	●
Powershift Transmission, automatic control 5-speed forward / 3-speed reverse with torque converter lock-up and proportional clutch cut-off	-	-	○	○
Transmission control lever on steering column	●	●	●	●
Forward-Neutral-Reverse rocker switch on hydraulic control lever	●	●	●	●
Transmission speed limiter 20 km/h	○	○	○	○
Passive parking brake, electrically disengagement, automatically engaged at engine shut-off	●	●	●	●
Standard axles with limited slip differential front and rear	●	●	●	●
Heavy duty axles with 100% front differential lock and open rear differential	○	○	○	○
Rear axle oscillation limiter	○	○	○	○
TIRES				
L3 Radial XHA 17.5R25 Michelin	○	○	-	-
L3 Radial TB516 17.5R25 Triangle	○	○	-	-
L3 Radial VJT 17.5R25 Bridgestone	●	●	-	-
L3 Radial TB516 20.5R25 Triangle	○	○	○	○
L3 Radial XHA2 20.5R25 Michelin	○	○	○	○
L3 Radial VJT 20.5R25 Bridgestone	○	○	●	●
L2 Radial VSW 20.5R25 Bridgestone	○	○	○	○
L5 Radial XLD-D2 17.5R25 Michelin	○	○	-	-
AG Radial 370 620/70R26 Alliance	○	○	○	○
L5 Radial XLD-D2 20.5R25 Michelin	-	-	○	○
L5 Radial TB538+ 20.5R25 Triangle	-	-	○	○
LOADER LINKAGE & ATTACHMENTS				
Standard Z-Bar linkage	●	-	●	-
XR - Extended reach linkage	○	-	○	-
XT - Parallel linkage	-	●	-	●
Bucket, pin-on, 2.1 m³, 2490 mm wide	○	-	-	-
Bucket, with hydraulic quick coupler, 1.8 m³, 2490 mm wide	○	○	-	-
Hydraulic quick coupler	○	○	○	○
Fork with hydraulic quick coupler	○	○	○	-
Bucket, pin-on, 2.3 m³, 2490 mm wide	-	-	○	○
Bucket, with hydraulic quick coupler, 2.1 m³, 2490 mm wide	-	-	○	○
Bucket teeth	○	○	○	○
Bolt-on reversible cutting edge	○	○	○	○
Teeth + bolt-on cutting edge segments	○	○	○	○
Bucket teeth guard L = 2490 mm	○	○	○	○

STANDARD AND OPTIONS - 651G - 721G

FEATURES	651G		721G	
	Z-BAR/XR	XT	Z-BAR/XR	XT
ENGINE				
Engine FPT N67 Stage V	●	●	●	●
Exhaust gases after-treatment Selective Catalyst Reduction on Filter	●	●	●	●
Engine working modes selection (Smart/Max)	●	●	●	●
Air intake rain cap cover (no pre-cleaner)	●	●	●	●
Air intake pre-cleaner	○	○	○	○
Air intake pre-cleaner with dust ejector (Sy-Klone)	○	○	○	○
Standard weather start package	●	●	●	●
Cold weather start package	○	○	○	○
Standard weather package with biodegradable hydraulic oil	○	○	○	○
Cold weather package with biodegradable hydraulic oil	○	○	○	○
Exclusive cooling radiators package (cooling cube) with variable speed reversible hydraulic-driven fan	●	●	●	●
Heavy duty cooling cube, wider radiators cores with variable speed reversible hydraulic-driven fan	○	○	○	○
Remote jump start	●	●	●	●
TRANSMISSION & AXLES				
Powershift Transmission, automatic control 4-speed forward / 3-speed reverse	●	●	●	●
Powershift Transmission, automatic control 5-speed forward / 3-speed reverse with torque converter lock-up and proportional clutch cut-off	○	○	○	○
Transmission control lever on steering column	●	●	●	●
Forward-Neutral-Reverse rocker switch on hydraulic control lever	●	●	●	●
Transmission speed limiter 20 km/h	○	○	○	○
Passive parking brake, electrically disengagement, automatically engaged at engine shut-off	●	●	●	●
Heavy duty axles with limited slip differential front and rear	●	●	●	●
Heavy duty axles with front differential lock and open rear differential	○	○	○	○
Heavy duty axles with front differential lock and rear LSD	○	○	○	○
TIRES				
L3 Radial XHA2 20.5R25 (standard width) Michelin	○	○	○	○
L3 Radial XHA2 20.5R25 (narrow width, Italy only) Michelin	-	-	○	○
L3 Radial VJT 20.5R25 (standard width) Bridgestone	●	●	●	●
L3 Radial VJT 20.5R25 (narrow width, Italy only) Bridgestone	-	-	○	○
L3 Radial TB516 20.5R25 (standard width) Triangle	○	○	○	○
L3 Radial TB516 20.5R25 (narrow width, Italy only) Triangle	-	-	○	○
L5 Radial X-MINE D2 20.5R25 (standard width) Michelin	○	○	○	○
L5 Radial X-MINE D2 20.5R25 (narrow width, Italy only) Michelin	-	-	○	○
L5 Radial XLD D2 20.5R25 (standard width) Michelin	○	○	○	○
L5 Radial XLD D2 20.5R25 (narrow width, Italy only) Michelin	-	-	○	○
L5 Radial TB538S+ 20.5R25 (standard width) Triangle	○	○	○	○
L5 Radial TB538S+ 20.5R25 (narrow width, Italy only) Triangle	-	-	○	○
L2 Radial VSW 20.5R25 (narrow width) Bridgestone	○	○	○	○
AG Radial 370 620/70R26 Alliance	○	○	○	○
AG Radial 344 750/55R26.5 Alliance	-	-	○	○
AG Radial MEGAXBIB 750/65R26 Michelin	-	-	○	○
SOLID - S2C2 20.5R25 SG Revol.	-	-	○	○
LOADER LINKAGE & ATTACHMENTS				
Standard Z-Bar linkage	●	-	●	-
XR - Extended reach linkage	-	-	○	-
XT - Parallel linkage	-	●	-	●
Bucket, pin-on, 2.3 m³, 2490 mm wide	○	-	-	-
Bucket, pin-on, 2.6 m³, curved side edges (rehandling, Z-Bar only)	○	-	-	-
Bucket, with hydraulic quick coupler, 2.1 m³, 2490 mm wide	○	○	-	-
Bucket, pin-on, 2.7 m³, 2690 mm wide	-	-	○	○
Bucket, pin-on, 2.5 m³, 2474 mm wide	-	-	○	○
Bucket, pin-on, 3.0 m³, straight side edges (G.P., Z-Bar only)	-	-	○	○
Bucket, pin-on, 3.2 m³, curved side edges (rehandling, Z-Bar only)	-	-	○	○
Bucket, with hydraulic quick coupler, 2.7 m³, 2690 mm wide	-	-	○	○
Bucket, with hydraulic quick coupler, 2.5 m³, 2474 mm wide	-	-	○	○
Hydraulic quick coupler	○	○	○	○
Fork with hydraulic quick coupler	○	○	○	○
Bucket teeth	○	○	○	○
Bolt-on reversible cutting edge	○	○	○	○
Teeth + bolt-on cutting edge segments	○	○	○	○
Bucket teeth guard L=2490 mm	○	○	○	○

● Standard | ○ options | - N/A

STANDARD AND OPTIONS - 821G - 921G

FEATURES	821G	921G
	Z-BAR/XR	Z-BAR/XR
ENGINE		
Engine FPT N67 Stage V	●	●
Exhaust gases after-treatment Selective Catalyst Reduction on Filter	●	●
Engine working modes selection (Smart/Max)	●	●
Air intake rain cap cover (no pre-cleaner)	●	●
Air intake pre-cleaner	○	○
Air intake pre-cleaner with dust ejector (Sy-Klone)	○	○
Standard weather start package	●	●
Cold weather start package	○	○
Standard weather package with biodegradable hydraulic oil	○	○
Cold weather package with biodegradable hydraulic oil	○	○
Exclusive cooling radiators package (cooling cube) with variable speed reversable hydraulic-driven fan	●	●
Heavy duty cooling cube, wider radiators cores with variable speed reversable hydraulic-driven fan	○	○
Remote jump start	●	●
TRANSMISSION & AXLES		
Powershift Transmission, automatic control 4-speed forward / 3-speed reverse	●	●
Powershift Transmission, automatic control 5-speed forward / 3-speed reverse with torque converter lock-up and proportional clutch cut-off	○	○
Transmission control lever on steering column	●	●
Forward-Neutral-Reverse rocker switch on hydraulic control lever	●	●
Transmission speed limiter 20 km/h	○	○
Passive parking brake, electrically disengagement, automatically engaged at engine shut-off	●	●
Heavy duty axles with limited slip differential front and rear	●	●
Heavy duty axles with front differential lock and open rear differential	○	○
Heavy duty axles with front differential lock and rear LSD	○	○
TIRES		
L3 Radial XHA2 23.5R25 Michelin	○	○
L3 Radial VJT 23.5R25 Bridgestone	●	●
L3 Radial TB516 23.5R25 Triangle	○	○
L5 Radial X-MINE D2 23.5R25 Michelin	○	○
L5 Radial XLD D2 23.5R25 Michelin	○	○
L5 Radial TB538S 23.5R25 Triangle	○	○
L2 Radial VSW 23.5R25 Bridgestone	○	○
AG Radial 370 620/70R26 Alliance	○	○
AG Radial 344 750/55R26.5 Alliance	-	○
AG Radial CEREXBIB 710/65R30 Michelin	-	○
SOLID - S2C2 23.5R25 SG Revolution	-	○
LOADER LINKAGE & ATTACHMENTS		
Standard Z-Bar linkage	●	●
XR - Extended reach linkage	○	○
Bucket, pin-on, 3.4 m ³ , 2946 mm wide	○	-
Bucket, pin-on, 3.6 m ³ , curved side edges (rehandling, Z-Bar only)	○	-
Bucket, with hydraulic quick coupler, 3.4 m ³ , 2946 mm wide	○	○
Bucket, pin-on, 4.2 m ³ , curved side edges (rehandling, Z-Bar only)	-	○
Hydraulic quick coupler	○	○
Fork with hydraulic quick coupler	○	○
Bucket teeth	○	○
Bolt-on reversible cutting edge	○	○
Teeth + bolt-on cutting edge segments	○	○
Bucket teeth guard L=2490 mm	○	○

STANDARD AND OPTIONS - 1021G - 1121G

FEATURES	1021G	1121G
	Z-BAR/XR	Z-BAR/XR
ENGINE		
Engine FPT Cursor 9 Stage V	●	●
Exhaust gases after-treatment Selective Catalyst Reduction on Filter	●	●
Engine working modes selection (Smart/Max)	●	●
Air intake rain cap cover (no pre-cleaner)	●	●
Air intake pre-cleaner	○	○
Air intake pre-cleaner with dust ejector (Sy-Klone)	○	○
Standard weather start package	●	●
Cold weather start package	○	○
Standard weather package with biodegradable hydraulic oil	○	○
Cold weather package with biodegradable hydraulic oil	○	○
Exclusive cooling radiators package (cooling cube) with variable speed reversable hydraulic-driven fan	●	●
Heavy duty cooling cube, wider radiators cores with variable speed reversable hydraulic-driven fan	○	○
Remote jump start	●	●
TRANSMISSION & AXLES		
Powershift Transmission, automatic control 4-speed forward / 3-speed reverse	●	●
Transmission control lever on steering column	●	●
Forward-Neutral-Reverse rocker switch on hydraulic control lever	●	●
Transmission speed limiter 20 km/h	○	○
Passive parking brake, electrically disengagement, automatically engaged at engine shut-off	●	●
Heavy duty axles with front differential lock and open rear differential	●	●
Heavy duty axles with front differential lock, open rear differential and axle oil cooler	○	○
TIRES		
L3 Radial XHA2 26.5R25 Michelin	○	○
L3 Radial VJT 26.5R25 Bridgestone	●	●
L3 Radial TB516 26.5R25 Triangle	○	○
L5 Radial X-MINE D2 26.5R25 Michelin	○	○
L5 Radial XLD D2 26.5R25 Michelin	○	○
L5 Radial TB538S 26.5R25 Triangle	○	○
LOADER LINKAGE & ATTACHMENTS		
Standard Z-Bar linkage	●	●
XR - Extended reach linkage	○	○
Bucket, pin-on, 4.4 m³, 3000 mm wide	○	-
Bucket, pin-on, 5.0 m³, 3150 mm wide	-	○

SPEC SHEET

521G - 921G

SPECIFICATIONS		521G	621G	651G	721G	821G	921G
ENGINE							
Maker & Model		FTP N45	FTP N67	FTP N67	FPT N67	FPT N67	FPT N67
No. of cylinders		4	6	6	6	6	6
Displacement	l	4.5	6.7	6.7	6.7	6.7	6.7
Air intake:	Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.						
Injection	Common Rail Multiple Injection.						
After Treatment System	HI-eSCR 2 (DOC+SCRoF)						
Emissions Level	Compliant with EU Stage V						
Maximum power (Peak Gross/Peak Net)	kW	106/99	128/121	128/121	145	172	190
Maximum power (Peak Gross/Peak net)	hp	142/133	172/162	172/162	195	230	255
@ Engine speed (ISO 14396)	rpm	1800	1800	1800	2000	1800	1600
Maximum Torque (Gross/Net)	Nm	612/586	730/692	730/692	950	1184	1300
@ Engine speed (ISO 14396)	rpm	1600	1600	1600	1300	1300	1300
TRANSMISSION							
ProShift: 5-speed powershift with lock up (optional). Lock up clutch eliminates torque converter losses from second gear up to fifth gear. Intelligent Clutch Cut Off (ICCO) with Power Inch: Proportional declutching.							
• Forward 1	km/h	-	7	7	7	7	6
• Forward 2	km/h	-	13	13	13	11	11
• Forward 3	km/h	-	20	20	19	17	17
• Forward 4	km/h	-	31	31	30	26	26
• Forward 5	km/h	-	45	45	40	40	40
• Reverse 1	km/h	-	7	7	8	7	7
• Reverse 2	km/h	-	14	14	14	12	12
• Reverse 3	km/h	-	32	32	31	28	28
4-speed ZF Powershift with Intelligent Clutch Cut Off (ICCO)							
• Forward 1	km/h	6	7	7	8	7	7
• Forward 2	km/h	11	13	13	13	12	12
• Forward 3	km/h	22	24	24	25	23	23
• Forward 4	km/h	36	39	39	37	37	36
• Reverse 1	km/h	6	7	7	8	7	7
• Reverse 2	km/h	12	14	14	13	13	13
• Reverse 3	km/h	23	25	25	26	25	25
AXLES (available options)							
Heavy Duty ZF Axles with Limited Slip Differential on both front and rear axle		n.a.	yes	yes	yes	yes	n.a.
Heavy Duty ZF Axles with automatic 100% differential lock on front and open		yes	yes	yes	yes	yes	yes
Heavy Duty ZF Axles with automatic 100% differential lock on front and LSD on rear axle		n.a.	yes	yes	yes	yes	n.a.
Standard ZF Axles with Limited Slip Differential on both front and rear axle		yes	yes	n.a.	n.a.	n.a.	n.a.
Axles oscillation angle (total)	°	24	24	24	24	24	24
TIRES							
Standard tire's size		17.5R25	20.5R25	20.5R25	20.5R25	23.5R25	23.5R25

SPECIFICATIONS		521G	621G	651G	721G	821G	921G
BRAKES							
Service brake		Maintenance free, self-adjusting wet 4-wheel disc brakes.					
Service brake disc area	m ² /hub	0.31	0.39	0.39	0.39	0.39	0.47
Parking brake		With the negative brake all four wheels are automatically stopped when the engine is stopped.					
Parking brake disc area	cm ²	58	58	58	82	82	82
HYDRAULICS							
Loader control valve		Bosch-Rexroth, closed center, load sensing/flow sharing.					
Steering		Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.					
Loader controls		Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.					
Pump type		Single, variable displacement				Tandem, variable displacement	
Max oil flow	l/min	134	169	190	206	236	278
@ engine speed	rpm	2000	2000	2000	2000	2000	2000
AUXILIARY HYDRAULICS							
Max oil flow	l/min	134	169	188	206	236	278
Max pressure	bar	249-255	249-255	249-255	249-255	249-255	249-255
FLUIDS CAPACITIES							
Fuel tank	l	189	248	248	246	288	288
DEF (AdBlue®) tank	l	41.3	41.3	41.3	41.3	41.3	41.3
Engine coolant	l	22	27	27	28	30	30
Engine oil	l	12	13	13	13	13	13
Hydraulic oil tank	l	57	91	91	91	91	91
Total hydraulic system oil	l	114	148	148	180	180	200
Front and rear axles	l	22+22	22+22	22+22	35+35	40+40	42+40
Transmission oil	l	19	27	27	34	34	34
CAB PROTECTION							
Protection against falling objects (FOPS)		According to ISO EN 3449 std.					
Protection against roll-over (ROPS)		According to ISO EN 13510 std.					
NOISE AND VIBRATIONS							
Inside the cab - LpA (ISO 6396-2008)	dB	68	68	68	68	68	69
Outside - LwA (2000/14/EC)	dB	102	104	104	103	104	104
Vibrations		Operator's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s ²					
ELECTRICAL SYSTEM							
System voltage	V	24	24	24	24	24	24
Batteries	n° x V	2 x 12	2 x 12	2 x 12	2 x 12	2 x 12	2 x 12
Alternator - capacity	A	70	120	120	120	120	120

SPEC SHEET

1021G - 1121G

SPECIFICATIONS		1021G	1121G
ENGINE			
Maker & Model:		FTP Cursor 9	FTP Cursor 9
No. of cylinders:		6	6
Displacement	l	8.7	8.7
Air intake:		Turbocharger with air-to-air cooling. No EGR valve is used: Only fresh air is taken for combustion and no extra cooling system is needed.	
Injection		Common Rail Multiple Injection.	
After Treatment System		HI-eSCR 2 (DOC+SCRoF)	
Emissions Level		Compliant with EU Stage V	
Maximum power	kW	239	250
Maximum power	hp	320	347
@ Engine speed (ISO 14396)	rpm	1800	1800
Maximum Torque	Nm	1479	1604
@ Engine speed (ISO 14396)	rpm	1100	1100
TRANSMISSION			
4-speed ZF Powershift with Intelligent Clutch Cut Off (ICCO)			
• Forward 1	km/h	7	7
• Forward 2	km/h	13	12
• Forward 3	km/h	19	18
• Forward 4	km/h	38	38
• Reverse 1	km/h	7	7
• Reverse 2	km/h	13	13
• Reverse 3	km/h	27	25
AXLES			
Rear axle oscillation		24°	
Heavy Duty ZF Axles		with open differentials and automatic 100% lock system on the front differential. 100% tractive effort always, no wheel slip, less tire wear.	
TIRES			
Standard tire's size		26.5R25	26.5R25
BRAKES			
Service brake		Maintenance free, self-adjusting wet 4-wheel disc brakes.	
Service brake disc area	m ² /hub	0.74	0.74
Parking brake		With the negative brake all four wheels are automatically stopped when the engine is stopped.	
Parking brake disc area	cm ²	82	82

SPECIFICATIONS		1021G	1121G
HYDRAULICS			
Loader control valve:		Bosch-Rexroth, closed center, load sensing/flow sharing. 3 spool main control valve.	
Steering		Steering cylinders actuated by hydraulic orbitrol under priority valve, controlled, in turn, by active load sensing signal.	
Loader controls		Pilot with proportional solenoid valves controlled by electro-hydraulic single joystick or single-axis 2/3 levers.	
Pump type		Tandem, variable displacement	
Max oil flow	l/min	348	376
@ engine speed	rpm	2000	2000
AUXILIARY HYDRAULICS			
Max oil flow	l/min	240	240
Max pressure	bar	249-255	249-255
FLUIDS CAPACITIES			
Fuel tank	l	459	288
DEF (AdBlue®) tank	l	65	65
Engine coolant	l	57	57
Engine oil	l	26	26
Hydraulic oil tank	l	134	134
Total hydraulic system oil	l	250	250
Front and rear axles	l	68+68	68+68
Transmission oil	l	45	45
CAB PROTECTION			
Protection against falling objects (FOPS)		According to ISO EN 3449 std.	
Protection against roll-over (ROPS)		According to ISO EN 13510 std.	
NOISE AND VIBRATIONS			
Inside the cab - LpA (ISO 6396-2008)	dB	68	69
Outside - LwA (2000/14/EC)	dB	105	104
Vibrations		Operator's seat meets the criteria of ISO 7096:2000. The vibrations transmitted do not exceed 0.5 m/s ²	
ELECTRICAL SYSTEM			
System voltage	V	24	24
Batteries	n° x V	2 x 12	2 x 12
Alternator - capacity	A	120	120

LOADER SPECIFICATIONS

521G



DATA WITH FACTORY-FITTED BUCKETS	G.P. PIN-ON					G.P. QUICK COUPLER			
		Z-Bar		XR		Z-Bar		XR	
		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth
Bucket accessory									
Machine operating weight (w/17.5R25 L3 tires)	kg	11098	11045	11192	11138	11303	11250	11431	11377
Bucket Rated Capacity:	m ³	2.1	2	1.9	1.8	1.8	1.7	1.8	1.7
Bucket Capacity at 110% Fill Factor	m ³	2.3	2.2	2.1	2	2	1.9	2	1.9
Bucket overall width	mm	2497	2540	2497	2540	2497	2540	2497	2540
Bucket weight	kg	847	794	813	759	1052	998	1052	998
Tipping load, straight	kg	8758	8827	7560	7627	8418	8570	7184	7314
Tipping load, full turn	kg	7673	7743	6601	6668	7354	7496	6246	6367
Maximum payload	kg	3837	3871	3301	3334	3677	3748	3123	3183
Maximum material density	kg/m ³	1827	1955	1756	1873	2104	2256	1787	1917
Bucket break-out force	daN	7455	8183	7976	8797	7155	7518	6883	7515

621G



DATA WITH FACTORY-FITTED BUCKETS	G.P. PIN-ON					G.P. QUICK COUPLER			
		Z-Bar		XR		Z-Bar		XR	
		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth
Bucket accessory									
Machine operating weight (w/L3 tires)	kg	12878	12824	13059	13006	13330	13277	13512	13548
Bucket Rated Capacity:	m ³	2.3	2.2	2.3	2.2	2	1.9	2	1.9
Bucket Capacity at 110% Fill Factor	m ³	2.5	2.4	2.5	2.4	2.2	2.1	2.2	2.1
Bucket overall width	mm	2497	2540	2497	2540	2497	2540	2497	2540
Bucket weight	kg	924	871	924	871	1377	1323	1377	1323
Tipping load, straight	kg	10662	10740	8957	9026	10134	10296	8464	8598
Tipping load, full turn	kg	9248	9319	7729	7798	8737	8886	7249	7372
Maximum payload	kg	4724	4659	3960	4003	4369	4443	3624	3686
Maximum material density	kg/m ³	2011	2109	1681	1765	2148	2297	1782	1906
Bucket break-out force	daN	9907	10765	11672	12427	9268	9982	9295	10007

651G



DATA WITH FACTORY-FITTED BUCKETS	G.P. PIN-ON					G.P. QUICK COUPLER				REHANDL. Z-Bar B.O.E.
		Z-Bar		XR		Z-Bar		XR		
		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	
Bucket accessory										
Machine operating weight (w/L3 tires)	kg	14062	14009	14244	14190	14515	14461	14696	14643	14225
Bucket Rated Capacity:	m ³	2.3	2.2	2.3	2.2	2	1.9	2	1.9	2.6
Bucket Capacity at 110% Fill Factor	m ³	2.5	2.4	2.5	2.4	2.2	2	2.2	2	2.9
Bucket overall width	mm	2497	2540	2497	2540	2497	2540	2497	2540	2540
Bucket weight	kg	924	871	924	871	1377	1323	1377	1323	1087
Tipping load, straight	kg	11943	12014	10171	10140	11400	11573	9568	9710	11722
Tipping load, full turn	kg	10340	10411	8680	8748	9816	9974	8189	320	10128
Maximum payload	kg	5170	5205	4340	4374	4908	4987	4095	4160	5064
Maximum material density	kg/m ³	2248	2356	1887	1980	2414	2579	1832	1958	1948
Bucket break-out force	daN	9909	10766	10188	11066	9265	9978	9290		9217

All units equipped with std.* L3 Radial Tires (Unless Noted), ROPS cab with Heater and A/C, Heavy Counterweight, Front and Rear Fenders, Full Fuel and DEF tanks, 75 kg operator. Specifications per ISO 14397, ISO 5998 AND ISO 7546.

* STD Tires size per model: 521G: 17.5R25 | 621G-651G-721G: 20.5R25 | 821G-921G: 23.5R25 | 1021G-1121G: 26.5R25

721G Table 1/2



DATA WITH FACTORY-FITTED BUCKETS			G.P. PIN-ON							
Bucket accessory		Z-Bar		Z-Bar		XR		XR		
		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	
Machine operating weight (w/L3 tires)	kg	15642	15623	15831	15777	15779	15757	15845	15826	
Bucket Rated Capacity:	m ³	2.7	2.6	3	2.9	2.5	2.4	2.7	2.6	
Bucket Capacity at 110% Fill Factor	m ³	3	2.9	3.3	3.2	2.7	2.6	3	2.9	
Bucket overall width	mm	2712	2726	2740	2740	2494	2510	2712	2726	
Bucket weight	kg	1221	1202	1410	1356	1155	1134	1221	1202	
Tipping load, straight	kg	13686	13711	12923	12993	11612	11640	11542	11566	
Tipping load, full turn	kg	11467	11492	10802	10872	8897	9784	9651	9675	
Maximum payload	kg	5734	5746	5401	5436	4860	4874	4825	4837	
Maximum material density	kg/m ³	2093	2185	1802	1824	1929	2040	1761	1840	
Bucket break-out force	daN	14321	15409	11671	10699	14315	15406	142772	15370	

721G Table 2/2



DATA WITH FACTORY-FITTED BUCKETS			G.P. QUICK COUPLER				REHANDL.
Bucket accessory		Z-Bar		XR		Z-Bar	
		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	
Machine operating weight (w/L3 tires)	kg	16166	16147	15779	15757	15845	
Bucket Rated Capacity:	m ³	2.7	2.6	2.5	2.4	3.2	
Bucket Capacity at 110% Fill Factor	m ³	3	2.8	2.7	2.6	3.5	
Bucket overall width	mm	2712	2726	2494	2510	2740	
Bucket weight	kg	1745	1726	1155	1134	1424	
Tipping load, straight	kg	12003	12134	11612	11640	12867	
Tipping load, full turn	kg	9988	10099	9721	9748	10752	
Maximum payload	kg	4994	5049	4860	4874	5376	
Maximum material density	kg/m ³	1845	1937	1929	2040	1679	
Bucket break-out force	daN	11889	11900	14315	15405	11669	

521G-621G-651G-721G



DATA WITH FACTORY-FITTED BUCKETS			521G		621G		651G		721G	
Bucket accessory		XT		XT		XT		XT		
		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	
Machine operating weight (w/L3 tires)	kg	11564	11511	13376	13323	14446	14393	15911	15892	
Bucket Rated Capacity:	m ³	1.8	1.7	2	1.9	2	1.9	2.7	2.6	
Bucket Capacity at 110% Fill Factor	m ³	2	1.9	2.2	2.1	2.2	2.1	3	2.8	
Bucket overall width	mm	2497	2540	2497	2540	2497	2540	2712	2726	
Bucket weight	kg	1050	902	1256	1202	1256	1202	1682	1663	
Tipping load, straight	kg	7161	7295	8826	8968	9740	9889	10446	10556	
Tipping load, full turn	kg	6235	6360	7613	7744	8467	8606	8679	8774	
Maximum payload	kg	3118	3180	3806	3872	4234	4303	4340	4387	
Maximum material density	kg/m ³	1784	1914	1875	2000	2086	2222	1602	1684	
Bucket break-out force	daN	7899	8540	10242	10944	10242	10945	11718	12464	

LOADER SPECIFICATIONS

821G



DIMENSION - Data with factory-fitted buckets	G.P. PIN-ON				G.P. QUICK COUPLER				REHANDL.	
		Z-Bar		XR		Z-Bar		XR		Z-Bar
Bucket accessory		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.
Machine operating weight (w/L3 tires)	kg	18329	18311	18556	18549	19397	19380	19665	19647	18411
Bucket Rated Capacity:	m ³	3.4	3.2	3.2	3	3.2	3.1	3.2	3.1	3.6
Bucket Capacity at 110% Fill Factor	m ³	3.7	3.5	3.5	3.3	3.5	3.4	3.5	3.4	3.9
Bucket overall width	mm	2946	2983	2946	2983	2983	2983	2946	2983	2990
Bucket weight	kg	1568	1551	1539	1521	2638	2620	2638	2620	1650
Tipping load, straight	kg	14880	14904	11941	11964	13162	13229	10420	10472	14914
Tipping load, full turn	kg	12472	12495	9944	10016	10886	10945	8561	8608	12481
Maximum payload	kg	6236	6248	4997	5008	5443	5472	4281	4304	6240
Maximum material density	kg/m ³	1873	1947	1567	1626	1710	1745	1345	1372	1719
Bucket break-out force	daN	14752	15722	15395	16411	12563	13282	12797	13526	14784

921G



DIMENSION - Data with factory-fitted buckets	G.P. PIN-ON				G.P. QUICK COUPLER				REHANDL.	
		Z-Bar		XR		Z-Bar		XR		Z-Bar
Bucket accessory		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.
Machine operating weight (w/L3 tires)	kg	20425	20407	20689	20671	21291	21274	21555	21537	20501
Bucket Rated Capacity:	m ³	4	3.8	4	3.8	3.2	3.1	3.2	3.1	4.2
Bucket Capacity at 110% Fill Factor	m ³	4.4	4.2	4.4	4.2	3.5	3.4	3.5	3.4	4.6
Bucket overall width	mm	2946	2946	2946	2983	2946	2983	2946	2983	3190
Bucket weight	kg	1772	1754	1772	1754	2638	2620	2638	2620	1847
Tipping load, straight	kg	17720	17395	13774	13900	15372	15446	12248	12306	16605
Tipping load, full turn	kg	14277	14426	11387	11495	12618	12682	9993	10043	13749
Maximum payload	kg	7139	7213	5694	5748	6309	6341	4996	5022	6875
Maximum material density	kg/m ³	1798	1888	1434	1505	1982	2022	1569	1601	1638
Bucket break-out force	daN	17386	18548	17682	18859	14774	15617	15049	15904	15631

1021G – 1121G



DIMENSION - Data with factory-fitted buckets	1021G G.P. PIN-ON				1121G G.P. PIN-ON				
		Z-Bar		XR		Z-Bar		XR	
Bucket accessory		B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth	B.O.E.	Teeth
Machine operating weight (w/L3 tires)	kg	25271	25244	26631	26629	28171	28132	28777	28776
Bucket Rated Capacity:	m ³	4.4	4.2	4.4	4.2	5	4.8	4.8	4.6
Bucket Capacity at 110% Fill Factor	m ³	4.8	4.6	4.8	4.6	5.5	5.3	5.3	5
Bucket overall width	mm	3021	3048	3195	3223	3171	3198	3195	3223
Bucket weight	kg	2317	2289	2121	2119	2448	2410	2241	2240
Tipping load, straight	kg	21675	21675	17856	17971	23355	23591	20126	20254
Tipping load, full turn	kg	17541	16157	14703	14794	18886	19087	16568	16670
Maximum payload	kg	8770	8859	7352	7397	9443	9544	8284	8335
Maximum material density	kg/m ³	1994	2095	1749	1826	1889	1976	1734	1787
Bucket break-out force	daN	18707	20331	20243	21669	21902	22318	22430	23880

All units equipped with std.* L3 Radial Tires (Unless Noted), ROPS cab with Heater and A/C, Heavy Counterweight, Front and Rear Fenders, Full Fuel and DEF tanks, 75 kg operator. Specifications per ISO 14397, ISO 5998 AND ISO 7546.

* STD Tires size per model: 521G: 17.5R25 | 621G-651G-721G: 20.5R25 | 821G-921G: 23.5R25 | 1021G-1121G: 26.5R25



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CNH Industrial
Deutschland GmbH
Case Baumaschinen
Benzstr. 1-3 - D-74076 - Heilbronn
DEUTSCHLAND

CNH Industrial
Maquinaria Spain, S.A.
Avenida Aragón 402
28022 Madrid
ESPAÑA

CNH Industrial France, S.A.
16-18 Rue des Rochettes
91150 Morigny-Champigny
FRANCE

CNH Industrial Italia Spa
Lungo Stura Lazio 19
10156, Torino
ITALIA

CASE Construction Equipment
Cranes Farm Rd
Basildon - SS14 3AD
UNITED KINGDOM

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