

D SERIES WHEEL LOADERS 721D-D^{XT}

CASE



P R O F E S S I O N A L P A R T N E R

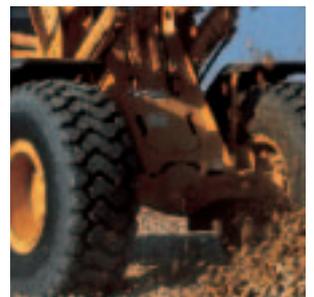
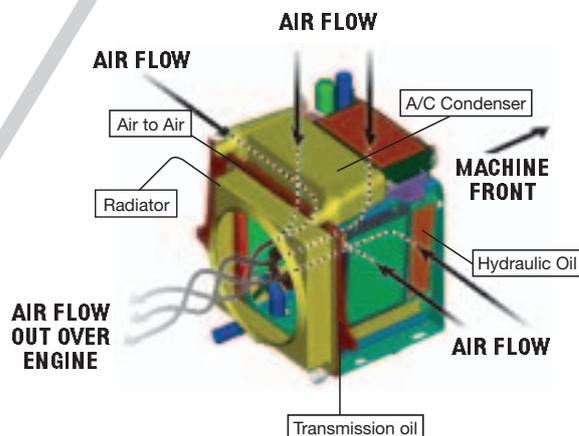
D SERIES WHEEL LOADERS

721D - 721D^{XT}

TOTAL PRODUCTION MACHINES

MID - MOUNT COOLING MODULE

The Case, mid-mount cooling module features an ultra-efficient design that draws the coolest air to the cooling radiator, A/C Condenser, turbo air cooler, hydraulic and transmission oil radiators. The cube-shape design prevents debris from plugging between coolers, and the reversible hydraulic fan easily purges any trapped material, for maximum uptime. The system prevents fluid breakdown and extends component life.





BUCKETS ATTACK THE PILE

Larger buckets on D-Series wheel loaders quickly penetrate the pile and efficiently prepare material for rapid fills and more tons moved per hour. The angled floor plate smoothly and quickly transitions material to the back of the bucket.

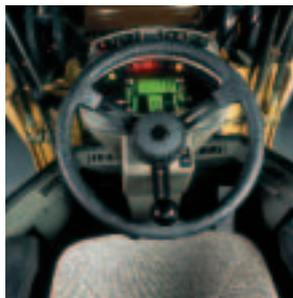


QUICK-RAISE HOOD

A flip of a switch raises the one-piece rear hood for quick access to the cooling module, engine and all daily service points. Ground-level service checks can be completed with no tools. These design enhancements help make D-Series wheel loaders best in class on an SAE index for maintainability.

LIMITED-SLIP AXLES

Limited-slip differentials on the front and rear axles maximise traction by transferring power from the wheel that is slipping to the wheel that is gripping. This provides maximum power when pushing material or creating a pile in wet, muddy conditions.

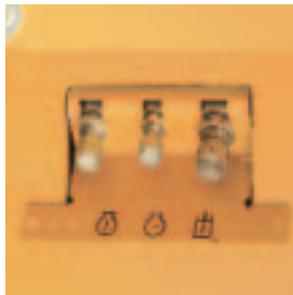


ERGONOMIC CAB

The de-luxe, roomy cab on D-Series machines gives the operator a commanding, comfortable position. With single-lever controls, a convenient, electronic information centre, suspension seat and ample leg and head room, D-Series is the standard for comfort. Fatigue is reduced; productivity increased.

HOOD SLOPES FOR VISIBILITY

View to the rear is improved by the clean, modern design of the dramatically sloping rear hood. The sloping hood is made possible by the mid-mount cooling module, which eliminates the need to enclose large coolers at the rear of the machine.



REMOTE DRAINS

Drains for coolant, hydraulic oil and engine oil are grouped at ground level at the left rear of the machine for convenient access. The remote drains allow for fast, environmentally friendly fluid changes.

LOADER CONFIGURATIONS

For maximum versatility, the 721D offers XT (tool carrier) parallel loader linkage or standard Z-bar linkage.



QUICK COUPLER

The quick coupler makes attachment changes quick and easy from the cab, granting maximum visibility to the operator.

ENGINE

721D

721D^{XT}

Make and model	CASE Family III 6TAA-6804	CASE Family III 6TAA-6804
Max. power net	170 hp (127 kW) at 2000 rpm	170 hp (127 kW) at 2000 rpm
Max. dual power net	184 hp (137 kW) at 2000 rpm	184 hp (137 kW) at 2000 rpm
Max. gross torque	850 Nm at 1300 rpm	850 Nm at 1300 rpm
Max. net torque	812 Nm at 1300 rpm	812 Nm at 1300 rpm
Displacement	6.8 l	6.8 l
N° of cylinders	6	6
Bore and stroke	104 x 132 mm	104 x 132 mm
Fuel injection system	direct injection, turbo charged, aftercooler, common rail	direct injection, turbo charged, aftercooler, common rail
Oil filter	spin-on cartridge	spin-on cartridge
Air filter (dry-type)	2 elements	2 elements

Dual Power

Dual Power is a new feature for Case wheel loaders designed to maximise the loader performance, at the same time saving fuel. A signal sensor mounted on the transmission measures the difference in the speed of the input and output shafts to the torque converter. The electronic injection system reduces engine power accordingly. If the torque converter approaches stall condition, the engine rpm will be reduced, therefore the engine is always at full useable power for any application.

The engine complies with 97/68/EC Stage 2 and with 1996 US EPA and CARB standards.



HYDRAULIC SYSTEM

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Variable output "Load Sensing" type closed centre hydraulic system.

A tandem variable output hydraulic pump with axial pistons.

Maximum output:	206 l/min	206 l/min
Pressure:	250 bar	250 bar

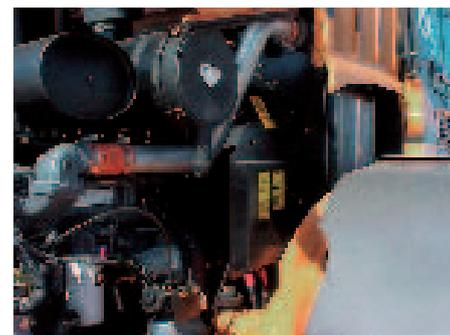
Double acting cylinders

• Arm (2) (bore x stroke)	121 x 828 mm	121 x 828 mm
• Bucket (1) (bore x stroke)	146 x 629 mm	114 x 857 mm

Pressurised hydraulic tank integrated into the cooling assembly.
10 µ return filters.

Cycle time

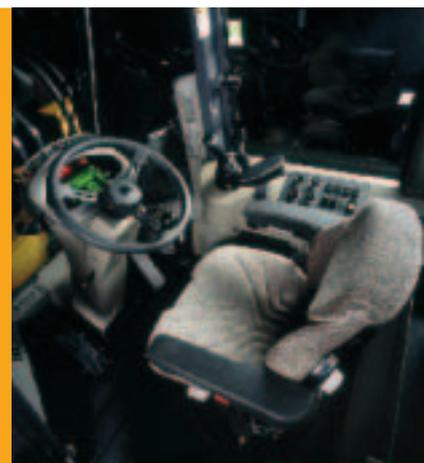
Raising (full bucket)	5.59 sec.	5.59 sec.
Lowering (bucket empty)	3.29 sec.	3.29 sec.
Dumping	2.40 sec.	1.94 sec.
Total	11.28 sec.	10.82 sec.



ELECTRICAL SYSTEM Voltage 24 Volts Batteries 2 x 12 Volts Alternator 70 Amperes

CAB

A spacious and comfortable cab provides the operator with a perfect 360° visibility. It has interior fittings that help the operator control and drive the machine in full safety. These include consoles with indicators, controls within the operator's reach and large LCD displays providing continuous information on the position and state of the main transmission controls. Multi-position adjustable seat, ventilation control and adjustment of the steering column provide maximum comfort, enabling the operator to get the best out of the machine's performance.





RIDE CONTROL

An anti-pitch system (optional) allows for the displacement of the loaded machine with reduced loss of material, ensuring greater driving comfort. It engages itself from 5 km/h onwards and cuts itself off as soon as the speed falls below this limit.



POWER TRAIN

721D

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TORQUE CONVERTER

Stall ratio 2.81:1

2.81:1

POWERSHIFT GEARBOX

Manufacturer ZF

ZF

TRAVEL SPEEDS (20.5 R 25 L3 tyres)

	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Forward km/h	7.6	13.4	24.6	38.0	7.6	13.4	24.6	38.0
Reverse km/h	8.0	14.0	25.8	—	8.0	14.0	25.8	—

ECM TRANSMISSION State-of-the-art transmission working with an Electronic Control Module (ECM). This system provides smooth shifting and long life. The transmission can be programmed to operate automatically in a custom shift pattern, or simply choose automatic or manual mode.

CAPACITIES

Fuel tank	253 l	253 l
Hydraulic system	193.1 l	193.1 l
Hydraulic tank	105.7 l	105.7 l
Engine with filter	15.1 l	15.1 l
Transmission	25.6 l	25.6 l
Front axle	30.3 l	30.3 l
Rear axle	27.4 l	27.4 l
Engine cooling system	36.9 l	36.9 l

TYRES

Standard 20.5 R 25 L2 to L3

AXLES

Manufacturer ZF, Front axle Fixed, Rear axle Oscillating (\pm)12°
Limited slip differentials on front and rear axles as standard.

BRAKES

Hydraulically controlled, oil-bath, multi-disc brakes.
 Separate twin brake circuit for front and rear axles.

Parking brakes

Electric parking brake acting on a disc located on transmission output shaft. A safety device automatically cuts out the transmission when the parking brake is in use.

STEERING

Centre pivot articulated steering - front and rear wheels always track.
 Two hydraulic cylinders controlled by a hydrostatic steering gear and a priority valve.

The "Orbitol" type steering is flow amplified to provide a constant ratio with 3.6 turns lock-to-lock.

- Integrated back-up steering standard
- Steering lock-to-lock angle (\pm) 40°
- Outer turning radius 5.7m

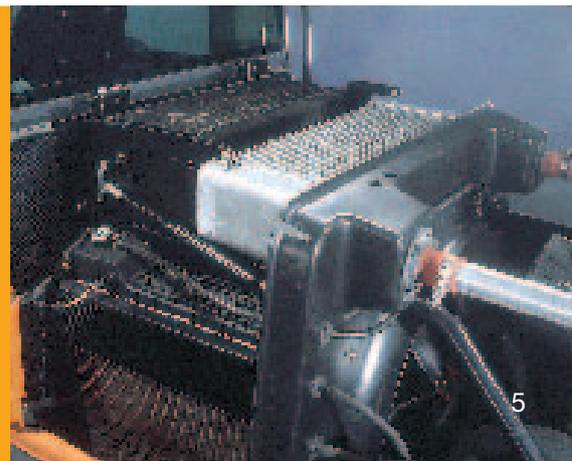
COOLING SYSTEM

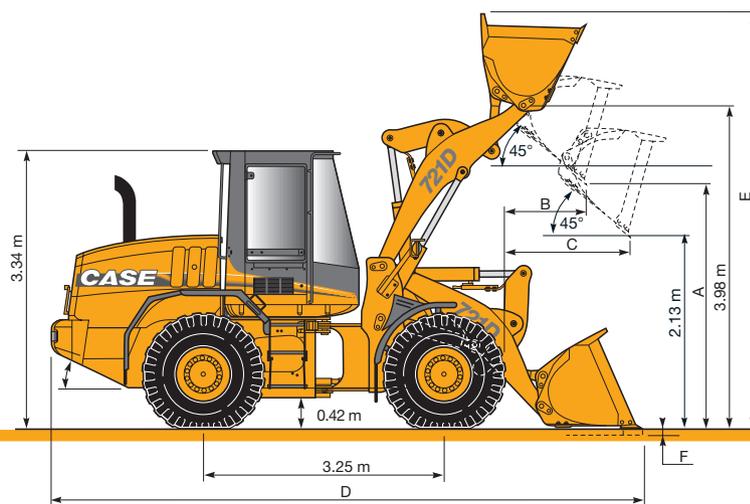
The machine's mid-mount cooling system integrates five radiator elements.

Engine coolant radiator
Turbo air cooler
Transmission oil cooler

Air-conditioning condenser
Hydraulic oil cooler (opt.)

This assembly is equipped with a hydraulic driven fan for the cooling. There exists an option to initiate an efficient and quick cleanup by reversing the fan direction (significant reduction in maintenance time and costs, especially in dusty environments). The cooling assembly also includes the hydraulic tank.





Track: 1.91 m
Width outside tyres: 2.45 m

721D

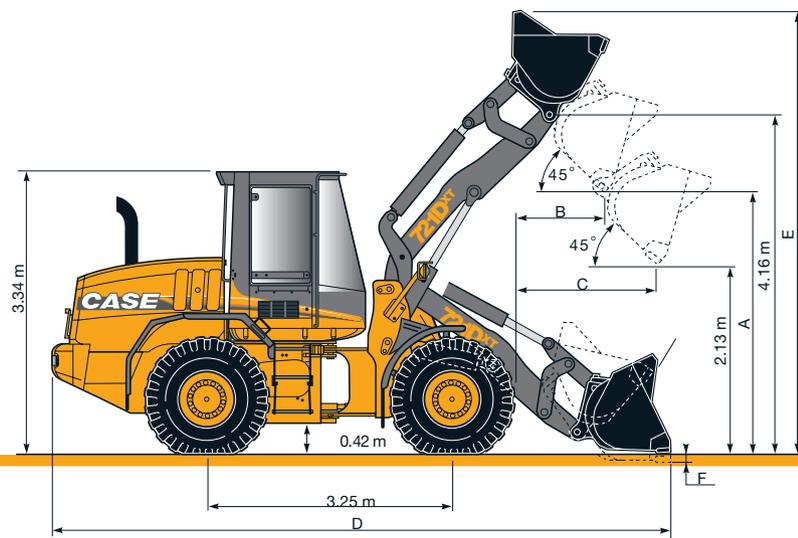
BUCKET TYPE



SAE heaped capacity	m ³	2.5	2.5	2.7	2.7	2.4	2.4
Maximum density	t/m ³	1.90	1.90	1.80	1.80	1.90	1.90
Bucket width	m	2.50	2.50	2.54	2.54	2.47	2.50
Bucket weight	kg	1186	1273	1260	1347	1656*	1620*
A- Dump clearance at 45° full height	m	2.93	2.83	2.89	2.79	2.82	2.74
B- Bucket reach at 45° full height	m	1.13	1.23	1.17	1.28	1.27	1.36
C- Bucket reach at 45° 2.13 m height	m	1.66	1.72	1.69	1.74	1.76	1.80
D- Overall length	m	7.65	7.80	7.71	7.86	7.82	7.94
E- Overall height	m	5.23	5.23	5.30	5.30	5.51	5.51
F- Digging depth	mm	76	84	76	84	60	65
Turning radius c/w bucket	m	6.32	6.38	6.34	6.40	6.30	6.34
Breakout force	kg	14 260	14 180	13 520	12 050	12 200	11 300
Tipping load (std. counterweight)							
straight	kg	11 275	11 165	11 215	11 105	11 290	11 340
at 40° turn	kg	9810	9700	9750	9640	9775	9825
Operating weight	kg	13 395	13 480	13 465	13 555	13 965	14 000
Tipping load (heavy counterweight)							
straight	kg	12 590	12 480	12 530	12 420	12 630	12 680
at 40° turn	kg	10 920	10 810	10 860	10 750	10 910	10 960
Operating weight	kg	13 950	14 035	14 020	14 110	14 520	14 555

* With quick coupler

All specifications and dimensions given above are based on unit fitted with **20.5 R 25 XTLA Michelin** tyres, standard equipment, ROPS and FOPS cab, standard counterweight, operator and full tanks.



Track: 1.91 m
Width outside tyres: 2.45 m

721D^{XT}

BUCKET TYPE

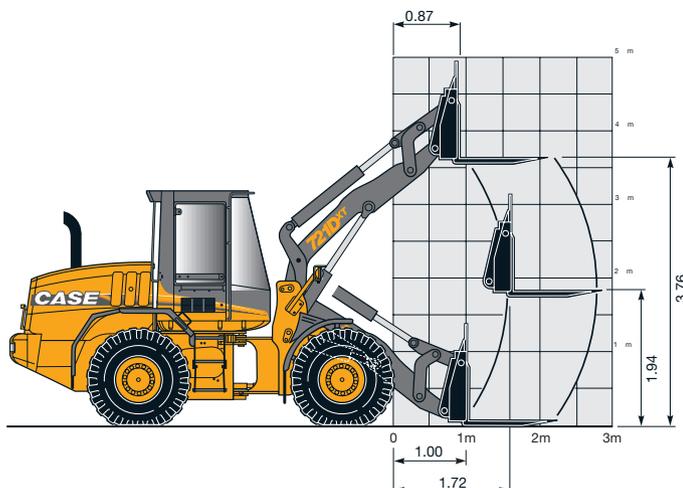


SAE heaped capacity	m ³	2.4	2.4
Maximum density	t/m ³	2.35	2.35
Bucket width	m	2.47	2.47
Bucket weight (w/quick coupler)	kg	1630	1590
A - Dump clearance at 45° full height	m	2.77	2.69
B - Bucket reach at 45° full height	m	1.27	1.36
C - Bucket reach at 45° 2.13 m height	m	1.75	1.79
D - Overall length	m	8.12	8.24
E - Overall height	m	5.67	5.67
F - Digging depth	mm	206	211
Turning radius c/w bucket	m	6.25	6.27
Breakout force	kg	12 020	11 195
Tipping load			
straight	kg	13 000	13 050
at 40° turn	kg	11 245	11 290
Operating weight	kg	14 665	14 630



All specifications and dimensions given above are based on unit fitted with **20.5 R 25 XTLA Michelin** tyres, standard equipment. ROPS and FOPS cab, heavy counterweight, operator and full tanks. The dimensions and specifications comply with the ISO 8313, 5998, 7546 and pr EN 474-3.

721D^{XT} WITH PALLET FORKS



Fork length	1.22 m
Fork frame width	1.70 m
Fork weight w/ quick coupler	690 kg
Tipping load ISO:	
in line	8410 kg
at 40° turn	7100 kg
Working load	
rough ground	4260 kg
Overall operating weight	13 730 kg

Centre of gravity, load at 0.60 m

721D-D^{XT}

STANDARD EQUIPMENT

DRIVETRAIN

- Proportional Powershift gearbox
- Helical gears
- Proportional control valve
- Electrical/hydraulic parking brake
- Transmission electronic control module
- Limited slip differentials

HYDRAULICS

- Axial piston variable flow pumps
- Automatic bucket return to transport position
- Integral cooling system
- Pilot control lock
- Dump height pre-selection

STEERING

- Emergency steering system

CAB

- Pressurised cab
- ROPS and FOPS type approved cab
- Public highway lighting system
- Radio pre-equipment
- Air-conditioning
- Rotary beacon
- Grab handles
- Ventilation - Heating - Defrosting
- Cab filter
- Door opening gas strut assisted
- Instrument panel with electronic monitoring system
- Digital bar gauges

EQUIPMENT

- Front and rear windshield wiper
- Reverse travel audible warning
- Front and rear mudguards
- Front and rear working lights
- LH and RH rear-view mirrors
- Intermittent wipers
- Towing eye
- Electric tilting hood

ENGINE

- 70 Amp alternator

POSSIBLE ADDITIONAL OPTIONS

- Radio and converter
- Spark arrestor muffler
- 3rd and 4th hydraulic circuit
- Hydraulically controlled quick-hitch
- Hydraulic oil cooler
- Air suspension seat with safety belt
- Reverse fan rotation to automatically clean cooling elements
- Ride control

Standard and optional equipment may vary from country to 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.

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

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Conforms to directive 98/37/CE



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