



Wheel Loader

Case engine: 171 hp (127 kW)
buckets from 2.10 m³ to 2.60 m³
Breakout force: 12 770 daN

721 C-C^{XT}-C^{XR}



C O M M I T T E D T O Y O U R N E E D S



ENGINE

Make CASE
 Type..... 6T-830
 Max. Power gross SAE..... 171 hp (127 kW) at 1900 rpm
 Max.Power Net EEC 80/1269 .. 167 hp (124 kW) at 1900 rpm
 Max. GrossTorque 753 Nm at 1300 rpm
 Max. Net torque746 Nm at 1300 rpm
 Displacement 8.3 l
 N° of cylinders 6
 Bore and stroke 114 x 135 mm
 Compression ratio 16.5 to 1
 Fuel injection system Direct
 Oil filter..... Spin-on cartridge
 Air filter (Dry-type)..... 2 elements
 Low emission engine designed to meet today's and futures environmental European standard.



ELECTRICAL SYSTEM

Voltage 24 volts
 Batteries 2 x 12 volts
 Alternator 65 A/h



POWER TRAIN

Torque converter

Stall ratio 2.87 : 1

Powershift gearbox

Manufacturer ZF
 ECM transmission
 State of the art transmission working with 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.



Travel speeds

20.5 x 25 L3 Tyres

	1 st	2 nd	3 rd	4 th
Forward (km/h)	8.0	17.0	26.1	39.0
Reverse (km/h)	8.4	14.8	27.5	—



AXLES

Manufacturer ZF
 Front axle fixed
 Rear axle Oscillating (+ -) 12°
 Limited slip differentials on front and rear axles.



TYRES

Standard 20.5 x 25 L3



BRAKES

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

Parking brakes

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



STEERING

Type Hydrostatic
 Turning angle (+/- 40°)
 Pump Vane type
 Flow 131 l/mn
 Steering safety valve pressure setting 176 bar
 Safety steering standard
 Closed centre with "Load Sensing" regulation



HYDRAULICS SYSTEM

One double body vane pump, attached to the gearbox, direct driven by the engine.

- Loader flow : 218 l/mn at 180 bar (721C/C^{XR}) - 198 bar (C^{XT})
- Steering flow : 131 l/mn at 176 bar
- Brake flow : 17 l/mn at 170 bar

Open centre, three-spool, modular type, hydraulically assisted control valves with servo-assisted controls

Working pressure 198 bar (C^{XT})
180 bar (C/C^{XR})

Double acting cylinders.

- Arm (2) C / C^{XR} / C^{XT}
(rod x piston x stroke) 76 x 127 x 833 mm
- Bucket (1) C / C^{XR}
(rod x piston x stroke) 76 x 165 x 544 mm
- Bucket (2) C^{XT}
(rod x piston x stroke) 57 x 114 x 1000 mm

Hydraulic oil tank sealed and pressurised..

Cycle time

	C / C ^{XR}	C ^{XT}
• Raising (full bucket)	5.9 sec	5.9 sec
• Lowering (bucket empty)	4.6 sec	4.6 sec
• Dumping	1.8 sec	1.7 sec
Total	12.3 sec.	12.2 sec.



CAPACITIES

Fuel tank	204 l
Hydraulic system	153 l
Gear box and torque converter	26.5 l
Engine and filter	23 l
Axle :	
• Front differential	15 l
• Rear differential	9.5 l
Cooling system	33.5 l



NOISE LEVEL

LwA = 107 dB (A)

LpA = 73 dB (A)

RANGE OF TOOLS AND ACCESSORIES

Buckets :

- Without teeth
- With teeth
- With blade
- V-shaped blade
- Light-weight materials
- High dump height

Wood grabs

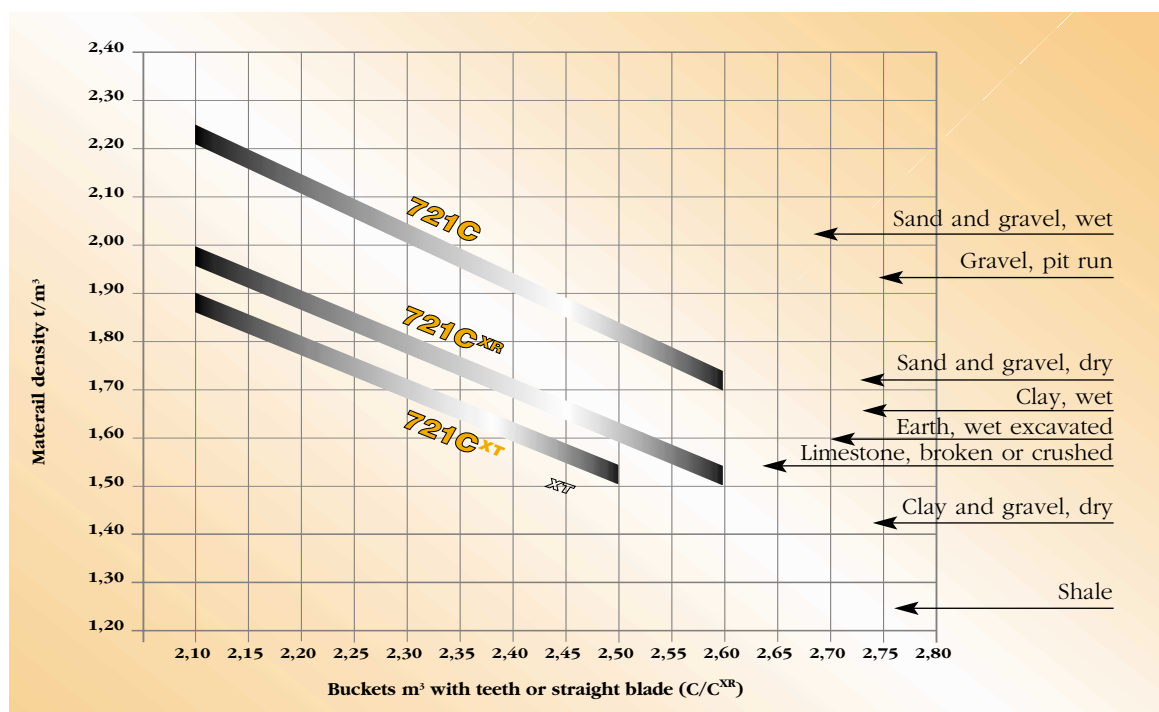
Pallet forks

Sweeper

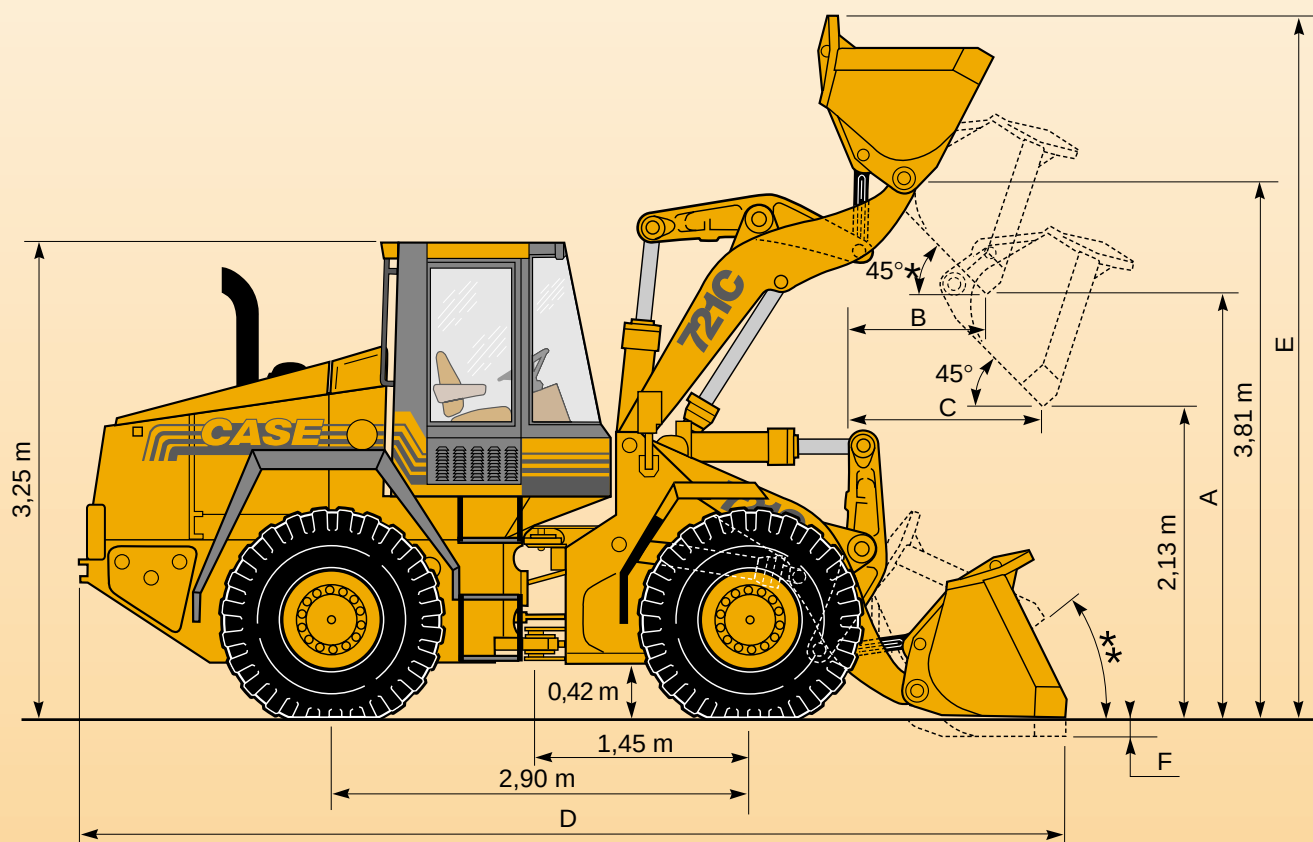
Dozer blade

For other tools or specific applications, please consult Case.

MATERIAL DENSITY BUCKET CAPACITY TABLE



721C



Track : 1.89 m
Width outside tyres : 2.42 m

* : 50° max
** { 40° (ground level)
46° (travel)

BUCKET TYPE

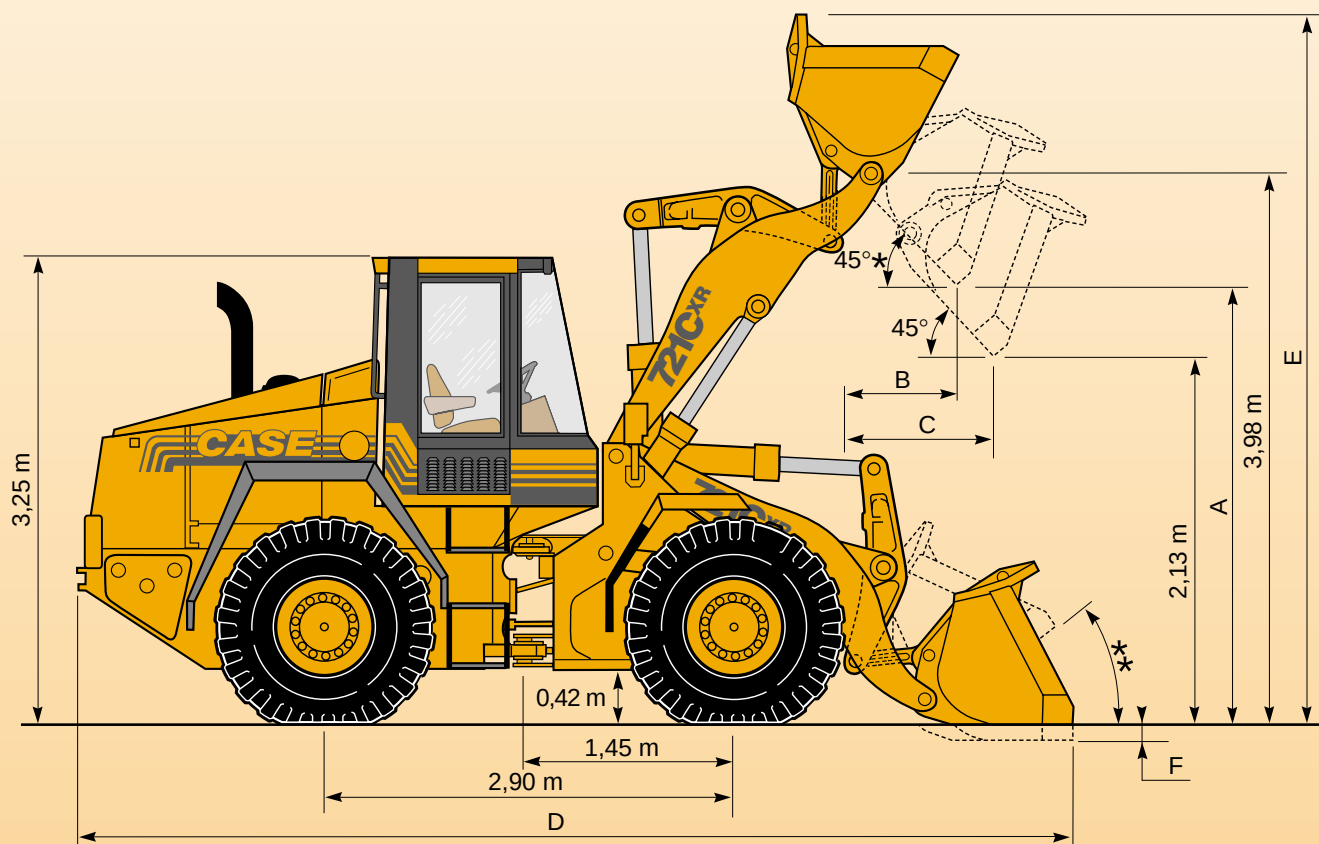


SAE heaped capacity	m ³	2.10	2.10	2.20	2.30	2.40	2.50	2.60
Struck capacity	m ³	1.75	1.75	1.83	1.85	1.95	2.00	2.10
Maximum density	t/m ³	2.30	2.25	2.15	2.05	1.95	1.85	1.75
Bucket width	m	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Bucket weight	kg	835	895	890	1 020	1 095	1 080	1 180
A Dump clearance at 45° full height	m	2.88	2.74	2.81	2.70	2.79	2.68	2.77
B Bucket reach at 45° full height	m	1.00	1.14	1.03	1.19	1.06	1.20	1.08
C Bucket reach at 45° 2.13 m height	m	1.44	1.51	1.44	1.52	1.46	1.53	1.46
D Overall length	m	6.96	7.16	7.06	7.23	7.10	7.26	7.12
E Overall height	m	5.02	5.02	5.02	5.06	5.06	5.10	5.10
F Digging depth	mm	56	61	81	61	81	61	82
Turning radius c/w bucket	m	11.55	11.70	11.64	11.74	11.67	11.76	11.68
Breakout force	daN	12 770	12 700	11 850	12 160	11 350	11 910	11 110
Tipping load	• straight	kg	10 940	10 810	10 790	10 670	10 580	10 430
	• At 40° turn	kg	9 700	9 620	9 570	9 450	9 360	9 220
Operating weight	kg	13 900	13 950	13 950	14 080	14 150	14 140	14 040

All specifications and dimensions given above are based on unit fitted with 20.5 x 25 tyres, standard equipment, ROPS and FOBS cab, standard counterweight, operator and full tanks.

The dimensions and specifications comply with the ISO 8313, 5998 & 7546 standards

721C^{XR}



Track : 1.89 m
Width outside tyres : 2.42 m

* : 49° max
** { 38° (ground level)
45° (travel)

BUCKET TYPE

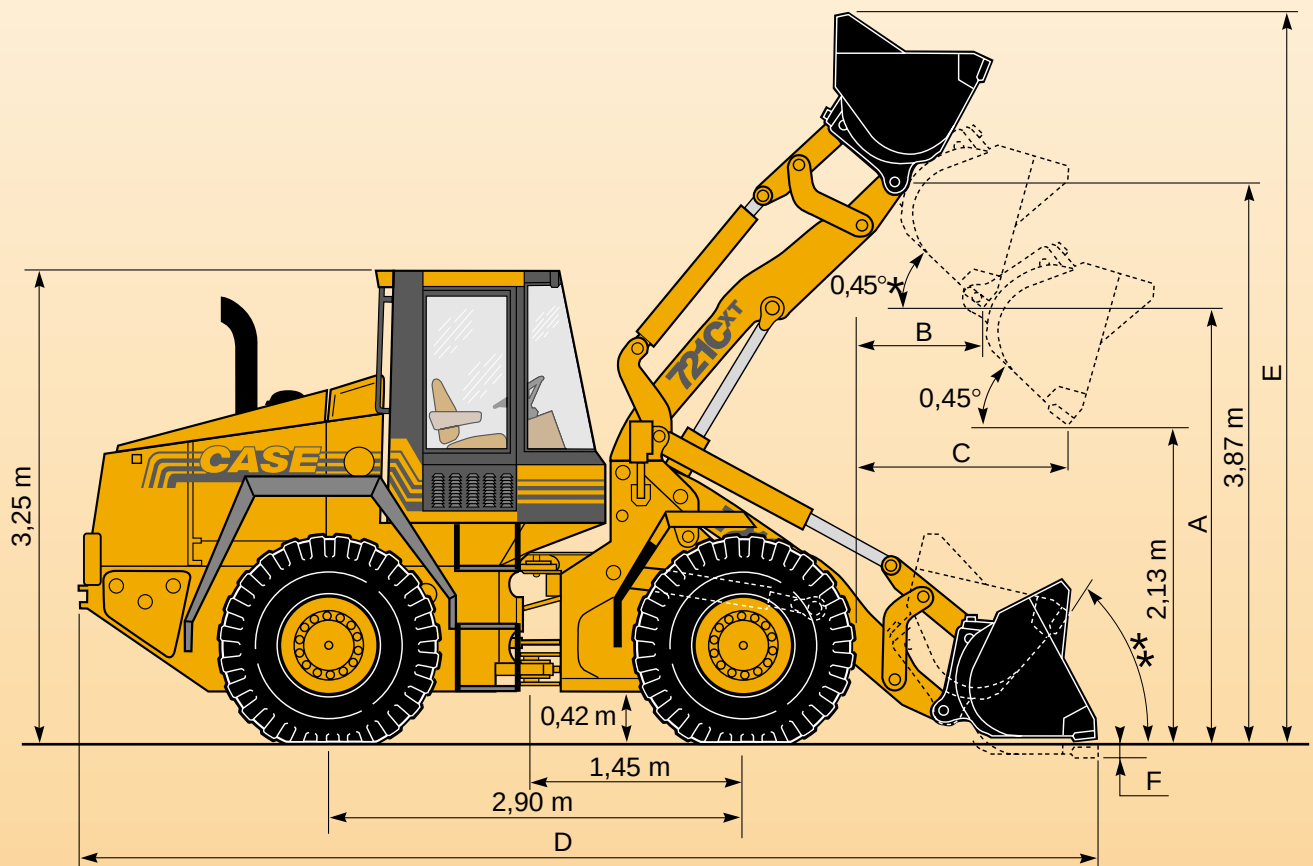


SAE heaped capacity	m ³	2.10	2.10	2.20	2.30	2.40	2.50	2.60
Struck capacity	m ³	1.75	1.75	1.83	1.85	1.95	2.00	2.10
Maximum density	t/m ³	2.05	2.00	1.90	1.80	1.70	1.65	1.55
Bucket width	m	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Bucket weight	kg	835	895	890	1 020	1 095	1 080	1 180
A Dump clearance at 45° full height	m	3.07	2.92	3.00	2.87	2.97	2.86	2.96
B Bucket reach at 45° full height	m	1.04	1.18	1.08	1.23	1.10	1.24	1.12
C Bucket reach at 45° 2.13 m height	m	1.72	1.79	1.72	1.81	1.74	1.82	1.74
D Overall length	m	7.18	7.38	7.27	7.45	7.31	7.47	7.33
E Overall height	m	5.20	5.20	5.20	5.24	5.24	5.29	5.29
F Digging depth	mm	0	61	81	0	19	0	18
Turning radius c/w bucket	m	11.60	11.73	11.66	11.77	11.69	11.79	11.70
Breakout force	daN	12 812	12 880	11 900	12 210	11 380	11 930	11 130
Tipping load	• straight	kg	10 232	10 150	10 130	10 010	9 910	9 780
	• At 40° turn	kg	8 600	8 520	8 510	8 380	8 290	8 160
Operating weight	kg	14 000	14 060	14 060	14 190	14 120	14 100	14 200

All specifications and dimensions given above are based on unit fitted with 20.5 x 25 tyres, standard equipment, ROPS and FOBS cab, standard counterweight, operator and full tanks.

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721C^{XT}



Track : 1.89 m
Width outside tyres : 2.42 m

* : 52° max
42° (ground level)
** { 49° (travel)

		BUCKET TYPE   		
SAE heaped capacity	m ³	2.10	2.30	2.50
Struck capacity	m ³	1.52	1.65	1.87
Maximum density	t/m ³	1.90	1.70	1.55
Bucket width	m	2.50	2.50	2.50
Bucket weight (with quick coupler)	kg	1 000	1 095	1 140
A Dump clearance at 45° full height	m	2.81	2.92	2.72
B Bucket reach at 45° full height	m	1.21	1.10	1.30
C Bucket reach at 45° 2.13 m height	m	1.71	1.65	1.75
D Overall length	m	7.35	7.20	7.48
E Overall height	m	5.20	5.25	5.32
F Digging depth	mm	105	106	106
Turning radius c/w bucket	m	11.66	11.57	11.74
Lift capacity at ground	daN	15 200	13 300	10 300
Lift capacity at max. height	daN	9 500	9 300	9 400
Breakout force	daN	11 070	13 650	10 750
Tipping load	• straight	kg	9 700	9 570
	• at 40° turn	kg	8 180	8 060
Operating weight	kg	13 800	13 900	13 945

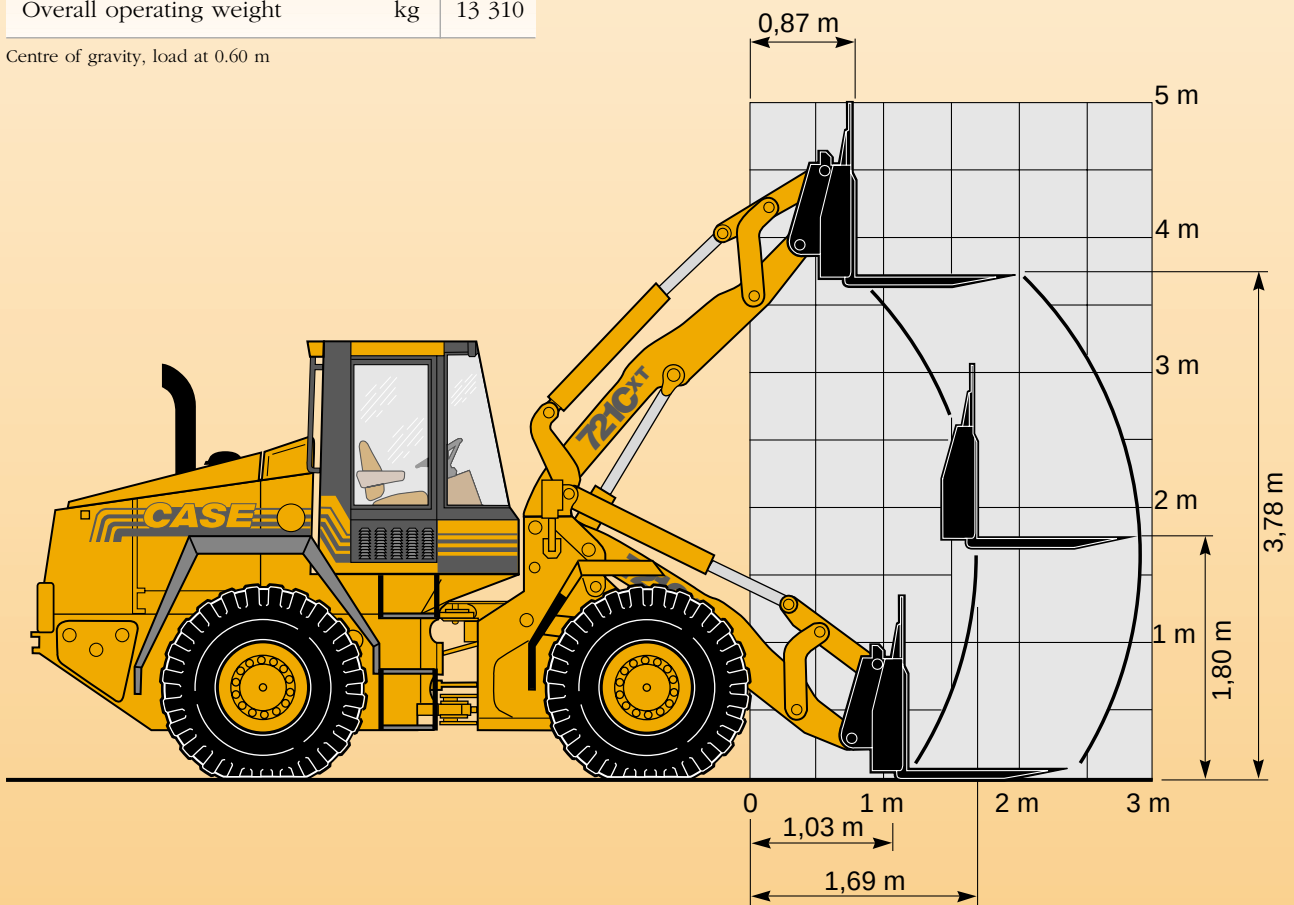
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721C^{XT} with PALLETS FORKS (using quick coupler)

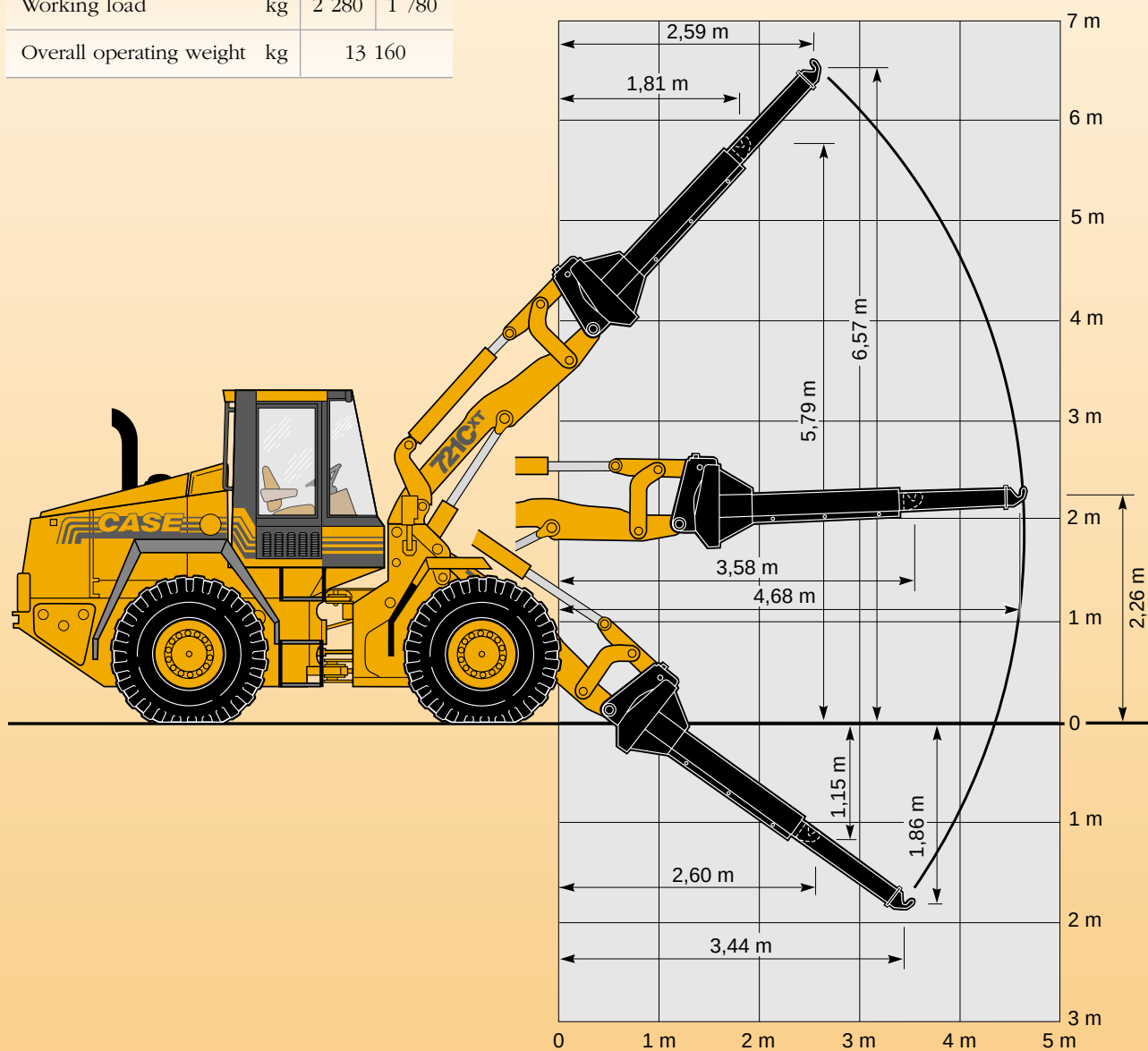
Fork lenght	m	1.22
Fork frame width	m	1.45
Weight with quick attach hitch	kg	610
Tipping load ISO :		
- in line	kg	7 150
- at 40° steering lock	kg	6 090
Working load		
- rough ground	kg	3 650
- flat ground	kg	4 870
Overall operating weight	kg	13 310

Centre of gravity, load at 0.60 m



721C^{XT} with REHANDLING ARM (using quick coupler)

Arm position		Retracted	Extended
Weight with quick attach hitch	kg	450	
Tipping load ISO :			
- in line	kg	5 180	4 150
- at 40° steering lock	kg	4 440	3 560
Working load	kg	2 280	1 780
Overall operating weight	kg	13 160	



STANDARD EQUIPMENT

Drivetrain

- Proportional-Shift Powershift gearbox
- Cold start protection (gearbox)
- Helical gears
- Proportional control valve
- Electrical/ hydraulic parking brake
- Transmission electronic control module
- Limited slip differentials

Cab

- Pressurised cab
- ROPS and FOPS type approved cab
- Public highway lighting system
- Radio pre-equipment
- Air-conditioning*
- Rotary light*
- Grab handles
- Ventilation - Heating - Defrosting (redesigned)
- Wider and taller tinted window glass
- Cab filter
- Door opening gas strut assisted
- Instrument panel with electronic monitoring system
- Digital Bar Gauges

Engine

- 65 amp alternator
- Aneroid valve

Hydraulics

- Denison vane pumps
- Bucket return-to-horizontal
- Automatic bucket return to transport position

Steering

- Flow amplified steering
- Wide angle steering
- Emergency steering system
- Pilot Control Lock
- Closed center steering

Equipment

- Front and rear windshield wiper
- Reverse travel audible warning
- Front and rear mudguards
- Hazard warning signal
- Front and rear working lights
- Light height pre-selection
- LH and RH rear-view mirrors
- Intermittent wipers
- Cup holder
- Towing eye

OPTIONAL EQUIPMENT

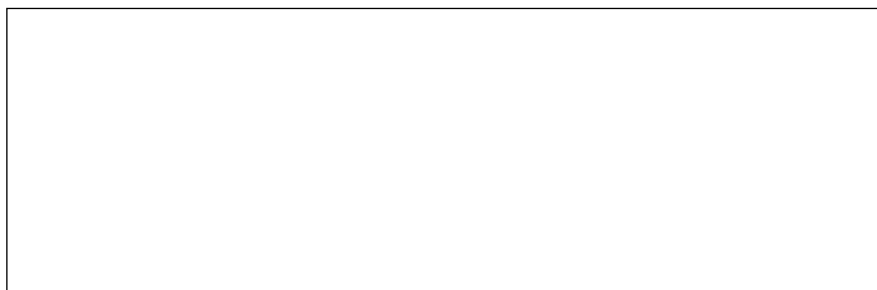
- Radio and converter
- Spark arrestor Muffler
- 3rd hydraulic circuit
- Hydraulically controlled quick-hitch
- Air suspension seat with safety belt
- Ride control

** Standard and optional equipment may vary from country to country*

Conforms to directive 89/392/EEC (as modified)



NOTE: The standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional fittings or fittings not mentioned above. Moreover, the Case Company reserves the right to modify without prior notice its machine specifications, and without incurring any obligations relating to such changes.



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