WHEEL LOADER



SINCE 1842.

721E

ENGINE

Brand	FPT
Model	F4HE9684F*J111
Type 4 stroke	, turbocharged, cooling system
	air-watter, Mar-I/Tier 3
Cylinders	6
Bore x stroke	104 x 132 mm (4,09 x 5,19in)
Displacement	6,7 L (6.700 cm ³)
Fuel injection	Electronic
Fuel	Diesel
Fuel filter	disposable cartridge full flow threadable
Air filter Dry type	e element with obstruction alert
Cooling pack with	central assemble
External radiators	with independent assemble
Fan – Hydraulic dr	riven
Туре	suction with 8 wings
Diameter	813 mm (32 in)
Water pump Type	Integral
Engine pump oil	
	crank case with cooling through of injectors under the pistons
Pump operation a	, , ,
Transverse	35°
Longitudinal	35°
Oil filter	Disposable, cartrige full flow threadable
Horsepower	
Maximum Power	
Gross Net Power	195 hp (145 kW) at 2,000 rpm 183 hp (137 kW) at 2,000 rpm
Standard Power	105 hp (157 kW) at 2,000 lpin
Gross	182 hp (136 kW) at 1,900 rpm
Net Power	172 hp (128 kW) at 1,800 rpm
Eco Power	
Gross	157 hp (117 kW) at 1,500 rpm
Net Power	149 hp (111 kW) at 1,500 rpm
NOTE: Power and J1995.	gross torque according SAE

Torque

loique	
Maximum F	ower
Gross	862 N.m (87,9 kgf.m) at 1.400 rpm
Net	821 N.m (83,7 kgf.m) at 1.400 rpm
Standard Po	ower

otundulululu	
Gross	847 N.m (86,4 kgf.m) at 1.400 rpm
Net	809 N.m (82,5 kgf.m) at 1.300 rpm
Eco Power	
Gross	832 N m (8/1 8 kaf m) at 1 200 rpm

Net	800 N.m (81,6 kgf.m) at 1.200 rpm
Torque increas	· · · · · ·

Standard power at 2.000 rpm 31,4%

POWER TRAIN

Transmission Proportional with electronic control module, automatic torque sensitive shift and manual shift

Gears		Helical
Gears ratio		
	Forward	Reverse
1 st	3,745	3,551
2 nd	2,089	1,981
3 th	1,072	1,017
4 th	0,636	don't available
Torque converter		
Ratio		2.84:1
Differential Limi	ted slip on fro	nt and rear axles
Rear axle oscillatio	n	24° total
Axles	Front	Rear
Differential Ratio	3,364	3,182
Planetary Ratio	6,000	6,400
Final axle ratio	20,18	20,36
Planetary		External
Service brakes		
Hydraulically driv	en, maintena	nce free, multiple

discs immersed in oil with accumulator for the four wheels. Brake system in accordance with ISO 3450

	100 0 100
Disc surface	0,387 m² (per hub)
Parking brake	
Spring driven and	d hydraulically released

Assembled on the output shaft of the transmission

Ground speeds – km/h with tires 20,5x25 L	_3
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	Forward	Reverse
1 st	7,6	8,0
2 nd	13,4	14,0
3 th	24,6	25,8
4 th	37,8	don't available

ELECTRICAL SYSTEM

Voltage	24 volts, negative to ground
Alternator	65 A
Batteries	(2) 12 V

HYDRAULIC SYSTEM

4F/3R

lisplacement 120 L/min	at 2.000 rpm at 248,22 bar m at 2.000 rpm at 3.600 psi)
120 L/min ol³/rev 31,6 gp	at 2.000 rpm at 248,22 bar
120 L/min ol³/rev 31,6 gp	•
ol³/rev 31,6 gp	•
ts pump	· · · · · · · · · · · · · · · · · · ·
ed centered :	system, with compensated pressure and flow
isplacement	
86 L/n	nin at 2.000 rpm at 200 bar
ol³/rev 22,6 gp	m at 2.000 rpm at 2.900 psi)
control for life system and e	ting and tilting, auxiliary electromagnetic detentions
eering	
	n articulation centered on prding to demand.
	ordance with SAE J1511
f pressure	250 bar (3.625 psi)
	r, disposable cartridges full return line, filter restriction indicator light
	pl ³ /rev 22,6 gp pontrol valve entered, secti control for liff system and e floating and eering draulics, with oil flow accc system in acc 5010 f pressure 0 micron filter

CYLINDERS

Lifting cylinders	
Cylinder bore	120,6 mm (4.75 in)
Rod diameter	76.2 mm (3 in)
Stroke	827,9 mm (32,6 in)
Unload cylinder (Z-Bar)	
Cylinder bore	146,0 mm (5.7 in)
Rod diameter	76.2 mm (3 in)
Stroke	629,4 mm (24.8 in)
Unload cylinder (XT)	
Cylinder bore	114,3 mm (4.5 in)
Rod diameter	57.2 mm (2.25 in)
Stroke	856,5 mm (33.72 in)
Steering cylinder	
Cylinder bore	76.2 mm (3 in)
Rod diameter	44.0 mm (1,75 in)
Stroke	481,9 mm

INSTRUMENTS

Electronic Information Center
Indicators/gauges
Speedometer
Tachometer
Selected steering F/N/R
Transmission Modes – automatic/manual
Selected gear
Engine cooling temperature
Fuel level
Transmission oil temperature
Hydraulic oil temperature
Hourmeter
Working mode
Warning lights
Low Fuel level
Corner lights
High beam
Brake pressure
Main hazard light
Parking brake
Audible alert
Caution alert
Emergency alert
Rear alert
Horn

OPERATOR COMPARTMENT

ROPS/FOPS Cab with air conditioning and heater. In according with ISO 3471, 3449, SAE 1040C, J231, OSHA rules.

Radio Key starter Articulated hydraulic steering with adjustable column Fully adjustable suspension seat Foot throttle Single control lever with wrist rest Cup holder Coat hanger Inner rearview mirror 2-inch retractable seat belt Storage tray behind the seat Air conditioner Single brake pedal Gear key F/N/R Outer rearview mirrors Cooling box pressurized air filtering Defroster Lateral window, fully opening/partial Ceiling light Wiper, rear and front

Corner flasher windshield washer, rear and front

Glove compartment with key

Comfort kit (cigarette lighter, Trinket box)

LOADER

Z cinematic arm			
Unique lift and tilt control			
Floatation with positive retention			
Automatic dig return			
Automatic height control			
Automatic shift return			
Disconnecting the transmission pedal (DeClutch)	on	the	brake

Bucket position indicator

CYCLE TIMES

Raise bucket with nominal load	5,59 s
Unload bucket with nominal load	
Z-Bar	1,8 s
XT	1,9 s
Descent (empty)	
With power	3,29 s
Flotation	3,29 s

SERVICE CAPACITY

Fuel tank	246 L
Hydraulic system	
Överhall	177,8 L
Reservoir	90,8 L
Transmission	34.1 L
Service with filter	25.6 L
Front and Rear Axles	
Front axle	30,3 L
Rear axle	27,4 L
Engine oil with filter	13.25 L
Oil sump	12,3 L
Cooling system	28.4 L

OPERATING WEIGHT

Z-Bar

Unit equipped with ROPS / FOPS cab with heater and air conditioning, "Heavy Duty" counterweight, 20.5 R 25 XHA TL tires, 2.5 m3 (3.25 jd3) multipurpose bucket with teeth and blade segments, fuel tank full and 79 kg operator's weight.

14,156 kg (31,209 lb)

хт

Unit equipped with ROPS / FOPS cab with heater and air conditioning, "Heavy Duty" counterweight, 20.5 R 25 XHA TL tires, 2.3 m3 (3.0 jd3) with teeth, fuel tank full and 79 kg operator's weight.

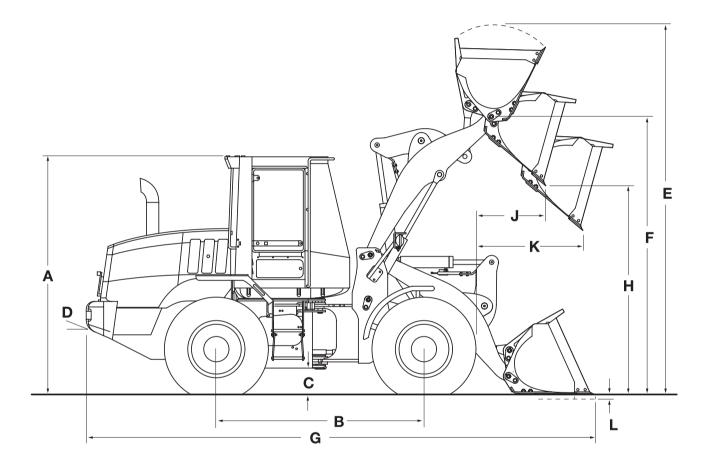
14.490 kg (31945lb)

DIMENSIONS

A. Height to top of cab ROPS	3,385 mm (133.2 in)
B. Wheelbase	3.253 mm (128.07 in)
C. Ground clearance	365 mm (14.37 in)
D. Rear departure angle	32°
Width Total* w/o bucket	2,562 mm (100.86 in)
Turning radius	5,750 mm (226.4 in)
STEERING ANGLE From the center Overall angle	40° 80°
Rear axle oscillation	24° total

NOTE: *Dimensions obtained with Michelin tires 20,5R25 XTLA.

Additional dimensions on pages 3 and 4.



WEIGHT ADJUSTMENTS

			Load adjustment
Select options	Weight setup	Tipping load adjustment	tipping articulated at 40°
Tires 20,5x25 12 canvas L2	-218 kg (-480 lb)	-171 kg (-376 lb)	-151 kg (-332 lb)
Tires 20,5x25 12 canvas L3	-69 kg (-152 lb)	-54 kg (-119 lb)	-48 kg (-105 lb)
Tires 20.5R25 XTLA	-172 kg (-379,2 lb)	-135 kg (-298 lb)	-119 kg (-263 lb)
Standard Counterweight	-555 kg (-1.223,5 lb)	-1.264 kg (-2.787 lb)	-1.070 kg (-2.359 lb)

NOTE:

Unit equipped with Z-Bar loader arms, 2.5 m³ (3.25 jd³) multi-purpose pinned bucket with bolted edge, Michelin 20.5R25 XHA TL tires, ROPS cab with heating and air conditioning, maximum counterweight, fuel tank full and 79 kg operator. Adjust the selected options from the nominal weight.

PERFORMANCE DATA

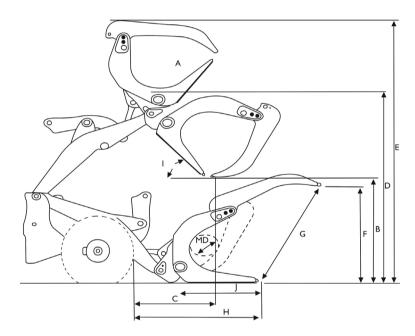
721E Z-Bar	Bucket 1,9 m ³ (2,5 jd ³) Blade "V" screwed without Teeth (heavy Duty)	Bucket 1,9 m ³ (2,5 jd ³) Straight blade with teeth and Segments (heavy Duty)	Bucket 1,9 m³ (2,5 jd³) Bolted straight blade (Heavy Duty)	Bucket 2,3 m ³ (3,0 jd ³) with straight blade
Bucket capacity - struck (SAE)	1.60 m ³ (2,1 jd ³)	1.60 m ³ (2,1 jd ³)	1.60 m ³ (2,1 jd ³)	1.94 m ³ (2,4 jd ³)
Heaped	1.90 m³ (2,5 jd³)	1.90 m ³ (2,5 jd ³)	1.90 m ³ (2,5 jd ³)	2.30 m ³ (3,0 jd ³)
Bucket width - external	2,700 mm (106.29 in)	2,700 mm (106.29 in)	2,700 mm (106.3 in)	2,700 mm (106.3 in)
Weight of bucket	1,207 kg	1,238 kg	1,228 kg	1,137 kg
E. Fully raised operating height with retaining plate	5,244 mm (206.45 in)	5,165 mm (203.34 in)	5,224 mm (205.66 in)	5,169 mm (203.5 in)
F. Height to hinge pin totally raised	3,941 mm (155.15 in)	3,941 mm (155.15 in)	3,941 mm (155.15 in)	3,980 mm (155.15 in)
G. Total length - bucket leveled on the around	7,689 mm (302.7 in)	7,791 mm (306.73 in)	7,686 mm (302.59 in)	7,596 mm (299.05 in)
Dump angle - fully raised	55°	55°	55°	55°
H. Unloading height fully raised, dump at 45°	2,885 mm (113.58 in)	2,317 mm (91.22 in)	2,884 mm (91,22 in)	2,963 mm (116.65 in)
J. Bucket reach fully raised, dump at 45°	1,127 mm (44.37 in)	1,191 mm (46.88 in)	1,110 mm (43.70 in)	1,086 mm (42.75 in)
K. Bucket reach height 2.13 m, dump at 45°	1,634 mm (64.33 in)	1,670 mm (65.74 in)	1,622 mm (63.85 in)	1,633 mm (64.29 in)
Operating load - ISO	5,407 kg	5,899 kg	5,903 kg	5,342 kg
Maximum material density - ISO	2,846 kg/m ³	3,100 kg/m ³	3,107 kg/m ³	2,322 kg/m ³
Tipping load - ISO				
In a straight line	12,349 kg	13,494 kg	13,522 kg	12,315 kg
Articulated at 40°	10,815 kg	11,778 kg	11,806 kg	10,685 kg
LIFTING CAPACITY				
Maximum height	7,349 kg	7,456 kg	7,466 kg	7,630 kg
Maximum reach	10,233 kg	10,202 kg	10,216 kg	10,289 kg
Ground	13,826 kg	13,408 kg	13,463 kg	13,203 kg
Breakout force with discharge cylinder	15,261 kg	15,141 kg	14,345 kg	14,951 kg
Maximum recoil				
Ground	40°	41°	41°	39°
Transport position	44°	44°	44°	43°
Maximum reach	54°	54°	54°	54°
Maximum height	57°	57°	57°	57°
Digging depth	112 mm (4,41 in)	120 mm (4,72 in)	120 mm (4,72 in)	73 mm (2,87 in)
Maximum leveling angle with reverse drag bucket	61°	60°	60°	60°
Loader turning diameter(bucket end)	12,654 mm (498 in)	12,713 mm (500,5 in)	12,654 mm (498 in)	12,607 mm (496 in)

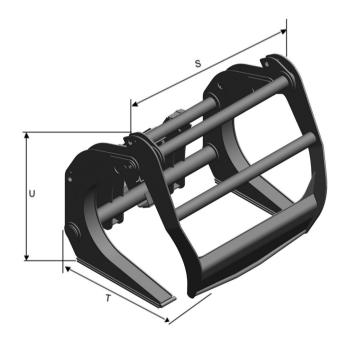
NOTE: Performance data for the Z-Bar version shown with maximum counterweight. XT lift arm with buckets for Leonardi coupling. Performance data from unit equipped with 20.5 x 25 16 L3 tires, ROPS cab with heater and air conditioning, standard counterweight, full fuel tank and 75 kg operator. Specifications according to standards SAE J732, J1234, J695, J742, J818, ISO 14397, ISO 5998, ISO 7546.

Bucket 2.3 m ³ (3,0 jd ³) Straight blade with teeth and and segments	Bucket 2.5 m³ (3,25 jd³) with straight blade screwed	Bucket 2,5 m³ (3,25 jd³) Straight blade with teeth and segments	Bucket 2,7 m ³ (3,5 jd ³) with straight blade	Bucket 4,2 m ³ (5,5 jd ³) With screwed straight blade
1.85 m ³ (2,42 yd ³)	2.11 m ³ (2,75 yd ³)	2.00 m ³ (2,62 yd ³)	2.30 m ³ (3,00 yd ³)	4.20 m ³ (5,49 yd ³)
2.13 m ³ (2,79 yd ³)	2.49 m ³ (3,25 yd ³)	2.30 m ³ (3,01 yd ³)	2.68 m ³ (3,50 yd ³)	4.20 m ³ (5,49 yd ³)
2,732 mm (107.5 in)	2,700 mm (106.3 in)	2,732 mm (107.5 in)	2,700 mm (106.3 in)	2,700 mm (106.3 in)
1,182 kg	1,186 kg	1,225 kg	1,257 kg	1,372 kg
5,169 mm (203,50 in)	5,229 mm (205.86 in)	5,229 mm (205.86 in)	5,298 mm (208.58 in)	5,670 mm (223.22 in)
3,980 mm (156.69 in)	3,980 mm (156.69 in)	3,980 mm (156.69 in)	3,980 mm (156.69 in)	3,979 mm (156.65 in)
7,748 mm (305.03 in)	7,648 mm (305.03 in)	7,799 mm (307.04 in)	7,708 mm (303.46 in)	8,119 mm (319.64 in)
55°	55°	55°	55°	55°
2,864 mm (112.75 in)	2,930 mm (115.35 in)	2,831 mm (111.45 in)	2,892 mm (113.85 in)	2,618 mm (103.07 in)
1,196 mm (47.08 in)	1,125 mm (44.29 in)	1,235 mm (48.62 in)	1,171 mm (46.10 in)	1,441 mm (56.73 in)
1,698 mm (66,85 in)	1,658 mm (65.27 in)	1,722 mm (67.79 in)	1,686 mm (66.37 in)	1,811 mm (71.29 in)
5,385 kg	5,306 kg	5,352 kg	5,252 kg	4,917 kg
2.528 kg/m ³	2.135 kg/m ³	2.327 kg/m ³	1.963 kg/m ³	1.171 kg/m ³
12,418 kg 10,769 kg	12,239 kg 10,612 kg	12,350 kg 10,704 kg	12,124 kg 10,504 kg	11,376 kg 9,834 kg
7,585 kg 10,254 kg 13,271 kg	7,581 kg 10,238 kg 13,106 kg	7,542 kg 10,209 kg 13,180 kg	7,510 kg 10,164 kg 12,977 kg	7,399 kg 10,003 kg 12,376 kg
16,173 kg	14,258 kg	15,369 kg	13,520 kg	10,130 kg
40° 43° 54°	39° 43° 54°	40° 43° 54°	39° 43° 54°	40° 43° 54°
57°	57°	57°	57°	57°
78 mm (3.07 in)	73 mm (2.87 in)	78 mm (3.07 in)	73 mm (2.87 in)	109 mm (4.29 in)
61°	60°	61°	60°	65°
12,724 mm (500,94 in)	12,636 mm (497.48 in)	12,754 mm (502.12 in)	12,671 mm (498.85 in)	12,923 mm (508.78 in)

WOOD GRAPPLE DIMENSIONS

A. Claw area	1.4 m ²
Operating load	4,475 kg
S. Width	2,325 mm (91.53 in)
T. Length	2,091 mm (82.32 in)
U.Height	2,022 mm (79.60 in)
Weight	2,130 kg
B. Unloading height at maximum articulation pin height (maximum discharge)	2,505 mm (98.62 in)
C. Unloading reach at maximum articulation pin height (maximum discharge)	1,351 mm (53.18 in)
D. Maximum unloading height	4,545 mm (178.94 in)
E. Maximum operating height	6,147 mm (242.00 in)
F. Maximum claw height in G	2,278 mm (89.68 in)
G. Maximum opening	2,525 mm (99.40 in)
H. Maximum ground reach	2,272 mm (89.44 in)
MD. Minimum diameter for handling	500 mm (19.68 in)
I. Maximum discharge angle at maximum articulation pin height	39°
J. Tip length	1,710 mm (67.32 in)





OPERATIONAL DATA OF THE 721E (Z-BAR) WITH 1.4 m² GRAPPLE LOGS

Straight machine	11,149 kg
Articulated at 40°	9,550 kg
Hydraulic lifting capacity at maximum height	6,575 kg
Hydraulic lifting capacity at maximum reach	9,257 kg
Lifting capacity on the ground	11,902 kg
Operating weight	14,688 kg
NOTE: Machine equipped with tires 20,5 x 25 – 16 canvas L3. Requires 3 rd hydraulic function and heavy high strength wear shoes.	y duty rear counterweight (1,565 kg). The grapple has

STANDARD EQUIPMENT

OPERATOR COMPARTMENT	POWER TRAIN
Refer to page 2	4 weel drive
Engine	Selectable 4F / automatic/ma
MAR-I (Tier 3)	Electronic Cont
Selectable working modes	Proportional ge
- Maximum Power	controlled by
- Automatic Power	of programma
- Standard Power	On-board diag
- Eco Power	Single lever for
Turbocharger	of gear select
Cooling the intake air	Gear key F/N/F
Automatic adjustment of the alternator belt	to control the
Integral engine oil cooling	Downshift butte
Fuel filter with water separator	Torque convert
Air filter with two elements	External planet
Alternator 65 A	Limited slip dife
(2) batteries 700 CCA 12 V	Transmission o
Muffler without spark suppressor	Disconnecting
Cooling pack with central assemble	pedal (DeClut
Electronic Common Rail Fuel Injection	Oil-immersed h
Loader	Spring-applied hydraulically r

Refer to page 2

Ν / 3R transmission anual trol Module - Programmable ear shifting computer with selection able gears nostics r electronic control tion R on lever loader n ter tary axes erential oil cooler the transmission by the brake tch) hydraulic brake discs parking brake realeased Limp-Home mode Cardan with permanent lubrication

Hydraulic system Lever loader control valve unique and 2 reels Low effort steering Reversing hydraulic fan (8) quick diagnostic couplings

Others

Electric hood lift Front and rear fenders Headlights (2) headlights (high beam / low beam) (2) front working headlights (2) rear brake lights and reverse lights (2) rear working headlights Direction indicators / Front / rear warning liahts Standard Counterweight Trailer pin Joint locking bar Lifting arm locking bar Holder point and tie - front and rear Reverse gear alarm Remote drainage points

Note: The configuration of standard equipment may vary according the industry.

OPTIONAL EQUIPMENT

OPERATOR COMPARTMENT

Fabric-covered air suspension seat RH side stairs and platform Rotating light Second brake pedal

Engine Cold weather kit

Loader

Hydraulic coupling for accessories Buckets (see pages 3 and 4) XT arm (parallel cinematics)

Hydraulic system

Auxiliary hydraulics Ride Control Loader valves with 3 or 4 reels, With 2 or 3 Loader control lever

Special versions

Version for corrosive environments:

- Parts with chamfered corners and special paint to protect against corrosive environments
- Application of special varnish to the entire machine surface for extra protection
- Bucket designed for handling fertilizer (4.0 m³)
 Chassis with openings to prevent material ac-
- cumulation
- Fertilizer resistant alternatorSpecial protection for electrical terminals
- Tubes with extra surface treatment, for greater durability

Sugarcane version:

- Cyclonic prefilter at engine inlet and air conditioning for better system efficiency and avoid clogging
- Bucket designed for handling bagasse (4.0 m³)
- Chassis with openings to prevent material accumulation
- Alternator with openings to prevent material build-up and prevent fire
- Fire extinguisher
- Version for handling logs
- Heavy-duty counterweight and extra-strong hydraulic grapple developed exclusively by CASE, with a structure designed for the most severe applications in the timber industry

TIRES

20,5x25 L2/L3/L5 diagonals 20,5 R25 radial (earth / rock)

Others

Spare tires Transmission guard Tool box Counterweight HD (Heavy Duty) Side covers and drain protection Clamp for handling logs



CASE reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold. The specifications, descriptions and illustrative material contained herein correctly reflect the data known at the time of publication, but may vary from region to region and are subject to change without notice. The illustrations may include optional equipment and accessories and may not include all standard equipment.

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CaseCE.com.br

Business office Garin – Buenos Aires Rep. Argentina Calle 28, 920 Panamericana km 38,5 Phone: +54 3327-4461000 Plants

Contagem – Minas Gerais – Brazil Av. General David Sarnoff, 2237 Inconfidentes – Zip Code 32210-900 Phone: +5531 2104-3392 Sorocaba – São Paulo – Brazil Av. Jerome Case, 1801 Inconfidentes – CEP 18087-220 Phone: +5515 3334-1700

