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 |
|---|----|
|---|----|

| | 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.

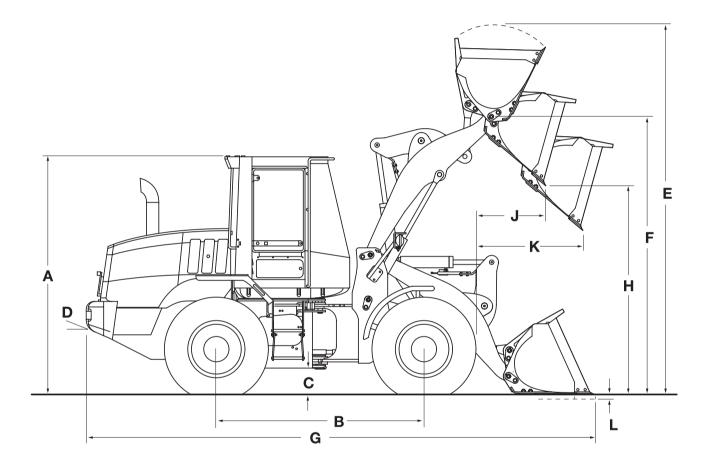
14.490 kg (31945lb)

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

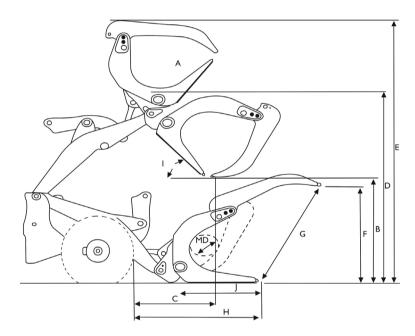
| 721E Z-Bar | Bucket 1,9 m ³ (2,5 jd ³) Blade "V" screwed without Teeth (heavy Duty) | Bucket 1,9 m ³ (2,5 jd ³) Straight blade with teeth and Segments (heavy Duty) | Bucket 1,9 m³ (2,5 jd³) Bolted straight blade (Heavy Duty) | Bucket 2,3 m ³ (3,0 jd ³) with straight blade |
|--|---|--|--|---|
| Bucket 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) |

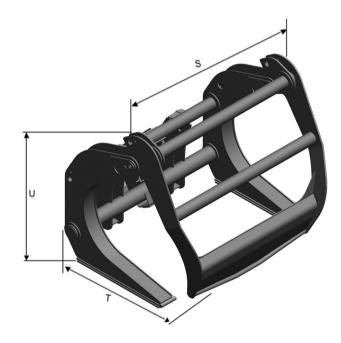
NOTE: Performance data for the Z-Bar version shown with maximum counterweight. XT lift arm with buckets for Leonardi coupling. Performance data from unit equipped with 20.5 x 25 16 L3 tires, ROPS cab with heater and air conditioning, standard counterweight, full fuel tank and 75 kg operator. Specifications 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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