

# POWER TO EXCELLENCE.

- Expect more than you could imagine! The new VF Venieri range faces the market with new models and its ever green reliability. Perfect balancing and top performances, Venieri wheel loaders are thoroughbred horses designed by professionals for professionals of earth moving sector.
- The brand new machines represent a significant improvement compared to the already existing high quality standards of a top performed range, thanks to the evolution of projects widely tested and suitable to the new market requirements.
- New Perkins engines meeting the Tier3 specifications, new design for cabins, new front lifting kinematics, high bucket capacity: the new range owns the right skills to draw your attention, running easily all kinds of ground and facing all kinds of work with perfect efficiency and precision: building, roads and piping, earth moving, green areas, etc.
- In the worst conditions Venieri technology makes the difference: steep slopes, rough terrains, unfavourable external temperatures, constant and violent impacts. VF 5.63B and 7.63B own agility and breakaway, excellent breakout force and traction effort, assuring productivity and safety without penalising consumptions.
- In the "Motor Valley" – where fabulous cars and top performing motorbikes rise – Venieri developed ability and know how for a wheel loaders and backhoe loaders range without comparisons. Machines able to give invincible performances, without stress for the operator, assured safety and respect for the environment. All Venieri customers are aware about that and they would never change their choice.



**"Z" LINKAGE**

**NEW PERKINS ENGINES  
4 CYLINDER TURBO  
STAGE IIIA**

**NEW HIGH PRESSURE BOSCH  
REXROTH HYDROSTATIC  
TRANSMISSION**

**ERGONOMIC  
MULTIFUNCTIONAL JOYSTICK**

**360°VISIBILITY**

**NEW LAYOUT DESIGN**

**RESPECT  
FOR THE ENVIRONMENT  
AND LOW CONSUMPTION**

## 5.63B

"Z" Linkage  
Max power **89 HP**  
Bucket capacity **1,1 - 1,7 m<sup>3</sup>**  
Max operative weight **6.300 kg**  
Weight/power ratio **69 kg/HP**

## 7.63B

"Z" Linkage  
Max power **105 HP**  
Bucket capacity **1,3 - 2,0 m<sup>3</sup>**  
Max operative weight **7.400 kg**  
Weight/power ratio **74 kg/HP**





## LONGITUDINAL ENGINE AND ANTISHOCK FRAME

The longitudinal engine grants a mix of **performances and rear visibility without compromise**: try it to believe it!  
The shock resistant frame is the result of the constant research for the best combination between materials and assembling solutions; resulting in a high level of resistance to stress, with simple and safe components' housing.

## PERFECT WEIGHT BALANCING BASED ON A GREAT STABILITY

The key words are **“stability”** and **“traction”**.  
The machine unloaded weight is distributed for a 40% on the rigid front axle and for a 60% on the oscillating rear one.  
With the machine fully loaded, the weight distribution is inverted in order to achieve the **best possible balancing** and assures – together with the two proportional self-lock differentials – a grip without comparison in any situation.

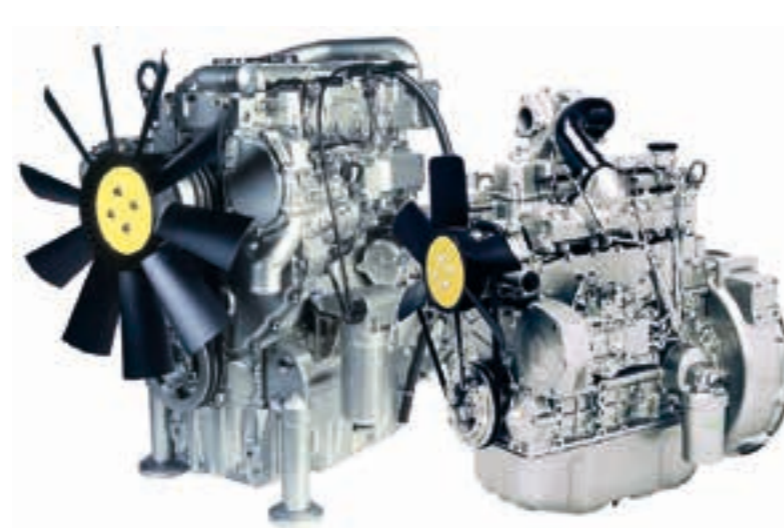
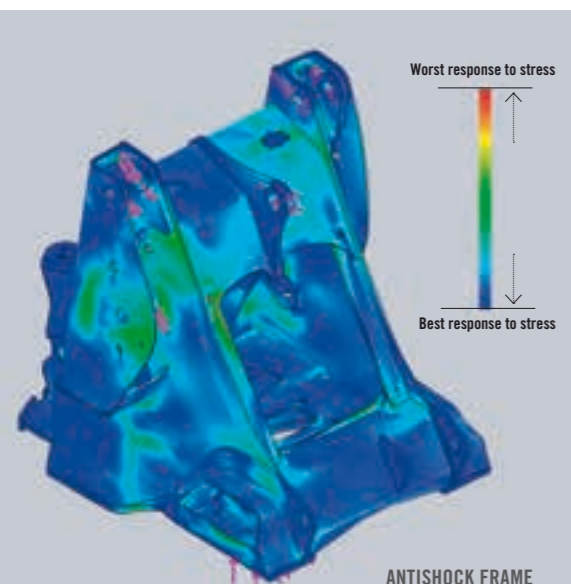
The compact engine, placed in the middle of the chassis, lowers the load centre and reduces the machine dimension.

## TESTED TRANSMISSION, UP TO 25% FUEL CONSUMPTION REDUCTION, LESS TYRES AND BRAKES WEAR

The range has a **hydrostatic transmission Bosch Rexroth** – made according Venieri requirements – representing the last evolution of a project born in 1968, when the company of Lugo was the first in the world to choose this solution for the earth moving machines.  
Nowadays this system continues to be efficient, moreover it has been improving performances since its origins.

It is very easy to discharge the engine power on the 4 wheel steering. Moreover, **the integration between engine and hydrostatic transmission can reduce fuel consumption up to a 25%** (according to its use): a quarter more of saved fuel than the traditional wheel loaders.

Hydraulic transmission promptly and precisely manages changes of direction, makes possible micrometric distances and adjusts speed selection as the occasion requires. The traction effort and the speed of the machine take step by step – automatically and in the real time – the optimal configuration; **the wheel slipping is minimum as well as the tyres wear.**



PERKINS STAGE IIIA ENGINES.

**MAXIMUM  
RELIABILITY** ●  
**GREAT  
FLEXIBILITY** ●  
**LOW  
MAINTENANCE  
COSTS** ●



MAXIMUM EFFICIENCY,  
MINIMUM MAINTENANCE

- Wide space and visibility in the cabin
- Easy and safe access to the cabin.
- The blunt and compact design of the engine hood grants excellent rear visibility.
- Easy access in case of maintenance.



VENIERI'S ORIGINAL SPARE PARTS

Assured **quality and safety** of your investment thanks to Venieri's Genuine Parts.



IMPROVED  
HYDRAULICS

MINIMUM  
BRAKE WEAR  
AND MECHANICAL  
PARTS

EASY  
MAINTENANCE

PERKINS  
WORLDWIDE  
CUSTOMER CARE



# 5.63B 7.63B

## LOADERS ▶ “Z” LINKAGE

### ► DIESEL ENGINE

Engine: 4 cylinder, intercooler turbo-charged, direct injection, water cooling, paper dry filter. Emissioned according to CEE 97/68 – stage IIIA.

|                        | 5.63B                 | 7.63B                 |
|------------------------|-----------------------|-----------------------|
| Type                   | Perkins 804D-33T      | Perkins 1104D-44T     |
| Max power              | 65kW - 89 HP          | 77kW - 105 HP         |
| Rated rpm              | 2.400                 | 2.200                 |
| Net power ISO/TR 14396 | 62 kW - 84 HP         | 70 kW - 95 HP         |
| Net power EEC/80/1269  | 62 kW - 84 HP         | 70 kW - 95 HP         |
| Bore                   | 94 mm                 | 105 mm                |
| Stroke                 | 120 mm                | 127 mm                |
| Displacement           | 3.331 cm <sup>3</sup> | 4.400 cm <sup>3</sup> |

### ► ELECTRIC SYSTEM

|                     | 5.63B             | 7.63B             |
|---------------------|-------------------|-------------------|
| Battery             | 12 Volt           | 12 Volt           |
| Capacity EN 60095-1 | 110 Ah - 850 A    | 110 Ah - 1.100 A  |
| Alternator rating   | 90 A              | 65 A              |
| Reverse warning     | Standard          | Standard          |
| Wiring according to | IP 67 e DIN 40050 | IP 67 e DIN 40050 |

### ► TRANSMISSION

Hydrostatic transmission with self-power regulation and closed circuit with variable displacement pump and motor. Gearbox with two mechanical selections: two work speeds (fwd/rev) and two road speeds (fwd/rev)(7.63B only)

|                       | 5.63B             | 7.63B             |
|-----------------------|-------------------|-------------------|
| WORKING SPEED         | FORWARD / REVERSE | FORWARD / REVERSE |
| 1 <sup>st</sup> Speed | 0 - 7             | 0 - 5             |
| 2 <sup>nd</sup> Speed | 0 - 35            | 0 - 16            |
| TRANSFER SPEED        | FORWARD / REVERSE | FORWARD / REVERSE |
| 1 <sup>st</sup> Speed | 0 - 7             | 0 - 10            |
| 2 <sup>nd</sup> Speed | 0 - 35            | 0 - 37            |

### ► AXLES

Heavy Duty axles with planetary final driver on each wheel and proportional self locking differentials. Rigid front axle. Oscillating rear axle up to a total angle of 25°. Transfer gearbox transferring movement directly to the rear and to the front axle via transmission shafts. Standard self locking differential on front axle, optional on rear.

### ► BRAKES

Service: hydraulic multi-disc oil brake on front axle, acting on all the wheels. Parking: mechanical brake on the service brake manually actuated.

### ► TYRES

|          | 5.63B                  | 7.63B                  |
|----------|------------------------|------------------------|
| Standard | 405/70 R20             | 405/70 R24             |
| Optional | 16/70 R20<br>14.5 - 20 | 15.5 R25<br>455/70 R24 |

### ► STEERING

Servo-assisted steering **LOAD SENSING** system.

|                                | 5.63B    | 7.63B    |
|--------------------------------|----------|----------|
| Steering angle                 | 80°      | 80°      |
| Inner tyres turning radius     | 2.560 mm | 2.600 mm |
| External tyres turning radius  | 4.430 mm | 4.700 mm |
| External bucket turning radius | 4.890 mm | 5.150 mm |



### ► HYDRAULIC SYSTEM

Hydraulic gear pump with LOAD SENSING priority valve for the steering circuit. Modular two-element control valve with main relief valve. Double acting hydraulic cylinders. Hydraulic oil filter on the leakage pipe. Single servo-lever arm control with 4 position lifting system and with 3 position bucket system.

|                                | 5.63B    | 7.63B     |
|--------------------------------|----------|-----------|
| Max flow                       | 86 lt/1' | 95 lt/1'  |
| Loader relief valve pressure   | 230 bar  | 230 bar   |
| Steering relief valve pressure | 190 bar  | 175 bar   |
| Lift cylinder                  | 85 x 588 | 90 x 665  |
| Bucket cylinder                | 90 x 402 | 110 x 445 |

### ► SERVICES CAPACITIES

|                       | 5.63B  | 7.63B  |
|-----------------------|--------|--------|
| Engine                | 7 lt   | 9 lt   |
| Gearbox               | 2 lt   | 1,5 lt |
| Differential          | 3,5 lt | 3,5 lt |
| Planetary final drive | 2 lt   | 2 lt   |
| Hydraulic circuit     | 45 lt  | 115 lt |
| Brake system          | 1 lt   | 1 lt   |
| Fuel                  | 75 lt  | 105 lt |
| Water cooling         | 15 lt  | 18 lt  |

### ► TECHNICAL FEATURES

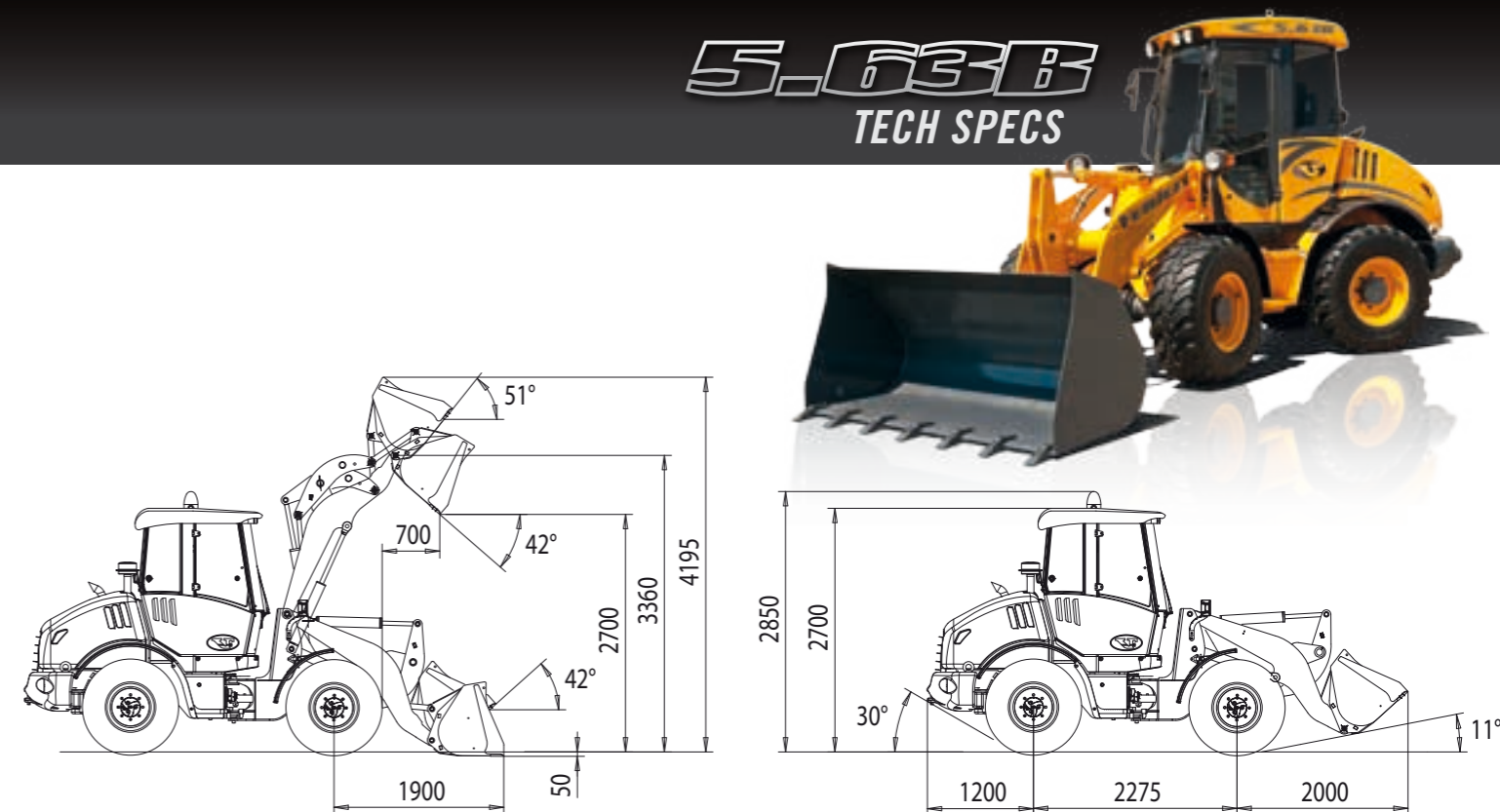
|                                 | 5.63B              | 7.63B              |
|---------------------------------|--------------------|--------------------|
| Standard bucket capacity        | 1,1 m <sup>3</sup> | 1,3 m <sup>3</sup> |
| Bucket width                    | 2.100 mm           | 2.250 mm           |
| Straight static tipping load    | 4.800 kg           | 5.100 kg           |
| Full turned 40° tipping load    | 4.200 kg           | 4.500 kg           |
| Lifting capacity at max. height | 3.600 kg           | 3.600 kg           |
| Dump clearance                  | 3.360 mm           | 3.525 mm           |
| Dump height at 40°              | 2.700 mm           | 2.800 mm           |
| Reach at 40°                    | 700 mm             | 750 mm             |
| Breakout force                  | 7.000 kg           | 9.100 kg           |

### ► DIMENSIONS AND WEIGHT

|                                 | 5.63B    | 7.63B    |
|---------------------------------|----------|----------|
| Max lenght in transfer position | 5.475 mm | 5.855 mm |
| Max width in transfer position  | 2.100 mm | 2.250 mm |
| Height                          | 2.700 mm | 2.800 mm |
| Track width                     | 1.600 mm | 1.700 mm |
| Overall tyre width              | 1.960 mm | 2.150 mm |
| Wheel base                      | 2.275 mm | 2.520 mm |
| Ground clearance                | 380 mm   | 455 mm   |
| Standard operating weight       | 5.800 kg | 6.900 kg |
| Max operating weight            | 6.300 kg | 7.400 kg |

The illustrations on the present folder do not necessarily show the product standard version. Data and dimensions described in this folder are not binding. Venieri reserves the right of carrying out possible changes at any time and without previous notice because of its policy of steady development and improvement of the products.

## 5.63B 7.63B TECH SPECS



### ► PERFORMANCE DATA

|                                |                | UNIVERSAL BUCKET | MULTI PURPOSE BUCKET | OVERSIZE | RAISED DUMPING BUCKET |
|--------------------------------|----------------|------------------|----------------------|----------|-----------------------|
| Full load bucket capacity      | m <sup>3</sup> | 1,1              | 0,9                  | 1,7      | 2,0                   |
| Bucket width                   | mm             | 2.100            | 2.100                | 2.250    | 2.350                 |
| Bucket weight                  | kg             | 400              | 500                  | 500      | 900                   |
| Max operative height           | mm             | 4.195            | 4.145                | 4.250    | 5.800                 |
| Bucket pin height              | mm             | 3.360            | 3.360                | 3.360    | 3.360                 |
| Dump clearance                 | mm             | 42°              | 42°                  | 42°      | 42°                   |
| Dump height                    | mm             | 2.700            | 2.675                | 2.650    | 4.000                 |
| Dump distance                  | mm             | 700              | 675                  | 750      | 1.150                 |
| Max dump distance              | mm             | 1.650            | 1.600                | 1.700    | 2.100                 |
| Straight tipping load          | kg             | 4.800            | 5.000                | 4.550    | 4.000                 |
| Full turned tipping load       | kg             | 4.200            | 4.400                | 4.000    | 3.300                 |
| Breakout force                 | kg             | 7.000            | 7.500                | 6.600    | 5.850                 |
| Total length                   | mm             | 5.475            | 5.425                | 5.525    | 5.675                 |
| External bucket turning radius | mm             | 4.890            | 4.850                | 5.000    | 5.150                 |
| Total weight                   | kg             | 5.800            | 5.900                | 5.900    | 6.300                 |

### ► LOADING FORK (Kg) - CENTRE OF GRAVITY 500 mm

|                                |       |                         |       |
|--------------------------------|-------|-------------------------|-------|
| Static tipping load, full turn | 3.200 | Payload EN 474-3 (60%)  | 2.000 |
| Payload EN 474-3 (80%)         | 2.500 | Payload DIN 24094 (50%) | 1.600 |

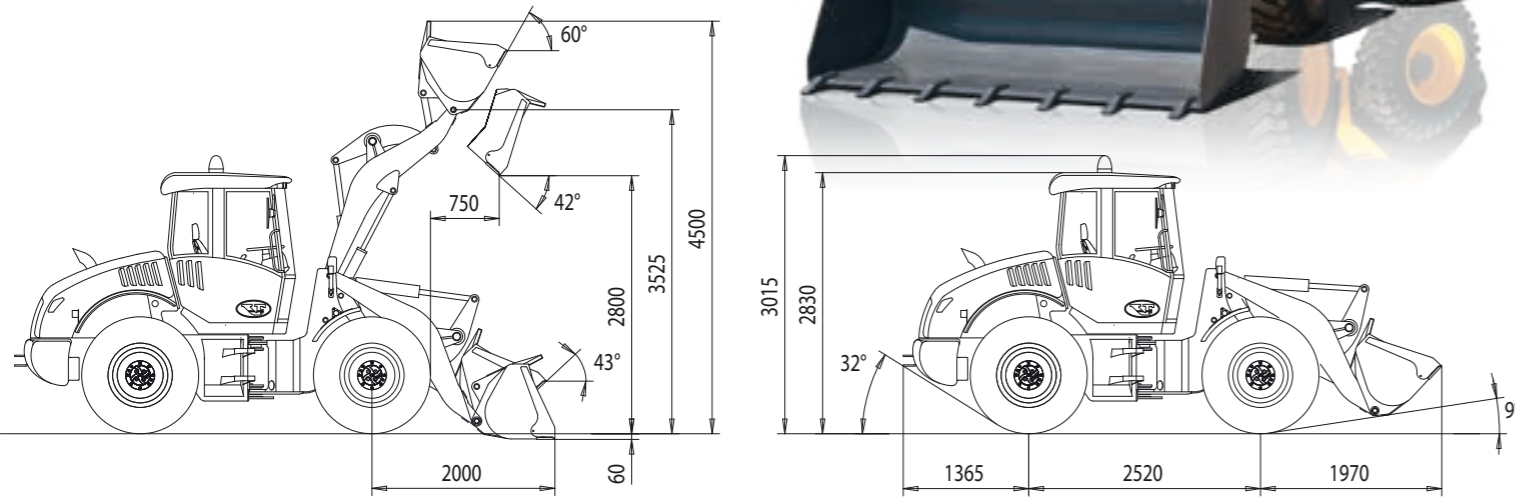


**Venieri**

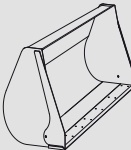
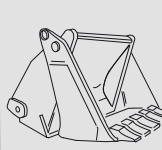
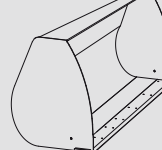
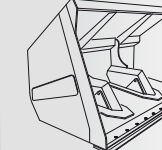


# 7.63B

## TECH SPECS



### ► PERFORMANCE DATA

|                                |                |  |  |  |  |
|--------------------------------|----------------|--|--|---|--|
|                                |                | UNIVERSAL BUCKET   | MULTI PURPOSE BUCKET   | OVERSIZE  | RAISED DUMPING BUCKET  |
| Full load bucket capacity      | m <sup>3</sup> | 1,3  | 1,1  | 2,0   | 2,5  |
| Bucket width                   | mm             | 2.250  | 2.250  | 2.500   | 2.500  |
| Bucket weight                  | kg             | 500  | 600  | 600   | 1.000  |
| Max operative height           | mm             | 4.500  | 4.425  | 4.550   | 6.000  |
| Bucket pin height              | mm             | 3.525  | 3.525  | 3.525   | 3.525  |
| Dump clearance                 | mm             | 42°  | 42°  | 42°   | 42°  |
| Dump height                    | mm             | 2.800  | 2.850  | 2.750   | 4.150  |
| Dump distance                  | mm             | 750  | 700  | 790   | 1.270  |
| Max dump distance              | mm             | 1.700  | 1.650  | 1.750   | 2.200  |
| Straight tipping load          | kg             | 5.100  | 5.200  | 4.900   | 4.300  |
| Full turned tipping load       | kg             | 4.500  | 4.600  | 4.300   | 3.450  |
| Breakout force                 | kg             | 9.100  | 10.100   | 8.600   | 7.350  |
| Total length                   | mm             | 5.855  | 5.800  | 5.950   | 6.100  |
| External bucket turning radius | mm             | 5.150  | 5.125  | 5.285   | 5.385  |
| Total weight                   | kg             | 6.900  | 7.000  | 7.000   | 7.400  |

### ► LOADING FORK (Kg) - CENTRE OF GRAVITY 500 mm

|                                |       |  |                         |       |
|--------------------------------|-------|--|-------------------------|-------|
| Static tipping load, full turn | 3.700 |  | Payload EN 474-3 (60%)  | 2.200 |
| Payload EN 474-3 (80%)         | 3.000 |  | Payload DIN 24094 (50%) | 1.850 |

*"Since 1948 one of the most important brands of earth and soil moving equipments. A conquered record thanks to the passion, to the constant quality, to the know-how and the foresight of the family Venieri, that has succeeded in maintaining alive, autonomous and winning the only Italian manufacturer in this sector".*

[www.vf-venieri.com](http://www.vf-venieri.com)

## STANDARD EQUIPMENT

- Acoustic warnings
- Plugs with keys for fuel and hydraulic tanks
- Bucket with bolted teeth
- ROPS-FOPS- cab with heater, pressurizer circulating fan, with front and rear windscreen wiper and windshield washer
- Tool box
- Spare parts catalogue
- Seat belt
- Limited slip differential on front axle
- Safety clamp for lifting cylinders

## OPTIONAL EQUIPMENT

- Hydraulic or mechanical quick coupler
- Negative hydraulic parking brake
- Cement mixing bucket
- Multipurpose bucket (4 in 1)
- Speed reduction kit
- Lifting forks
- Proportional self lock rear differential
- Asphalt and cement planer

- Visual index for bucket position
- Working lights
- Draw bar hook
- Soundproofing
- Yellow rotating and overturning beacon
- Operation and maintenance manual
- Type-approval for road traffic
- Side rearview mirrors
- Complete instrument board

- Snow blower
- "V" type snow blade
- Angle-tilt dozer blade
- Hand operating hammer
- Polishing brush
- Trencher wheel



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**5.63B**  
**7.63B**  
**LOADERS**

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