



TM

**Venieri**  
SPA

**2.63D**

*Plus*

WHEEL LOADER





# **LITTLE BIG ONE.**

**REDUCED SIZE, UNSTOPPABLE POWER**



**Increase your expectations: Venieri's small one is here!**

Thanks to the widely tested project evolution matching the new market requirements, the new machine represent asignificant improvement. We are located in the **"Motor Valley"** which, in a small territory, has always been giving birth to fabulous cars and top performing motorbikes!

The genetic heritage is very rich: the **Japanese technology** of the **Kubota engines**, **new Bosch Rexroth transmissions** and a **ratio traction/weight** never before achieved.

The **ORA** (oscillating rear axle) is one of the main organs in this series: **there isn't any oscillating mechanical coupling** between the front and rear, ensuring smart working and driving safety on this small one which can be normally found on big machines only.

*Plus*  
**2.63D**

- › "Z" Linkage
- › Max power **53 HP**
- › Bucket capacity **0,75 m<sup>3</sup>**
- › Max permis. weight **5.650 kg**
- › Std operat. weight **4.350 kg**

## ENGINE: JAPANESE TECHNOLOGY

The **Kubota D1803-CR-T-E5** engine complies with **Tier 4f - Stage V** strict regulations.

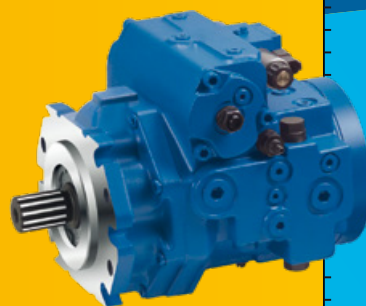
Advanced **particulate filter technology (DPF)** of the latest generation, enables an automatic regeneration even at low rpm and allows **appreciably maintenance intervals reductions** thus ensuring operational **continuity**.

**Quietness, durability and efficiency** are guaranteed by the **Common Rail** system capable to optimize combustion maximum efficiency. A clean, flexible engine with top performances.



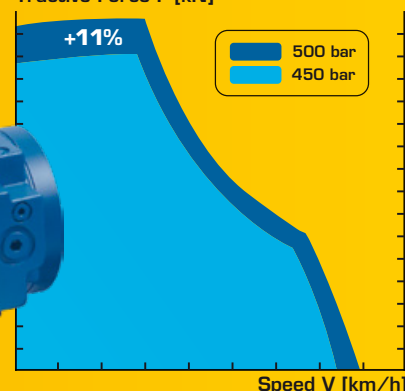
## TRANSMISSION: GLOBAL QUALITY

There are many ways to transmit power but only one is able to satisfy even the most demanding customers: **Venieri** and **Bosch-Rexroth** laboratories have studied and developed **one of the best possible combinations of high pressure transmission** (so **high efficiency transmission with 500 bar\***). In that way the **efficiency** of Venieri's wheel loaders led to a **11% improvement**: try and you'll believe it!



### Extended performance range

Tractive Force F [kN]



## AXLE: TOP LEVEL EQUIPMENT

The **double fixing** on each side grants **extreme reliability and stiffness to the chassis even after 8000/10000 working hours** and represents a further confirmation of our design philosophy: **small size machines equally designed as the big ones!** The **18° rear oscillation** grants perfect **stability and security** during working and transfer operations. Electrically driven 100% blocking slip differential.



## GREASING: CENTRALIZED COMFORT

**Maintenance** is fundamental on all machines: Venieri decided to build machines **easy and accessible to anyone**: machines whose maintenance operations can be carried out in an **easy and safe way**, thanks to its particular design. For example, the **3 points of centralized greasing** allow the **rear axle** and the **articulation** to be instantly double checked.





### **80° articulation.**

Cramped conditions do not scare us.



### **Steering console.**

A master piece for all job requirements!



### **Arms Connection with ovalized section.**

We want to see clearly!



### **Framed glass door and flat glass.**

We combine style with efficiency!



### **Multipurpose Joystick.**

You can do everything with one hand!

### **Hydraulic quick coupling.**

Use your Venieri as a universal tool carrier thanks to the interchangeability of most quick couplings/equipment!

### **Linkage connection**

**on the chassis with cantilevered pins.**

+ performance, better visibility  
= less risk!



### **Evolved and complete hydraulic.**

Not only High Flow kit but also additional hydraulic kit for tools and equipments. An example? Hand operated hydraulic demolition hammer!

# 2.63D Plus

## WHEEL LOADER / "Z" LINKAGE



### DIESEL ENGINE

Engine: 3 cylinder in line engine, turbocharged, common-rail injection with electronic control, exhaust gas recirculation EGR, water cooled, dry filtration, diesel oxidation catalyst (DOC), diesel particulate filter (DPF). Emissioned according to CE 97/68 - Stage V/Tier 4f

|                    |                   |
|--------------------|-------------------|
| Type               | Kubota D1803-CR-T |
| Max Power          | 39kW - 53 HP      |
| Rated rpm          | 2.700             |
| Power ISO/TR 14396 | 37 kW - 50 HP     |
| Power EEC/80/1269  | 35,3 kW - 47 HP   |
| Max. torque        | Nm 150,5          |
| Bore               | mm 87             |
| Stroke             | mm 102,4          |
| Displacement       | cm³ 1.826         |



### ELECTRIC SYSTEM

|                           |                   |
|---------------------------|-------------------|
| Battery                   | 12 Volt           |
| Capacity EN 60095-1       | 80 Ah - 770 A     |
| Alternator rating         | 60 A              |
| Reverse warning           | Standard          |
| Wiring according to rules | IP 67 e DIN 40050 |



### TRANSMISSION

Hydrostatic transmission with automatic power regulation and closed circuit with variable-displacement pump and engine. Two forward/reverse speeds with single-lever control.

|                           | forward | reverse |
|---------------------------|---------|---------|
| 1 <sup>st</sup> Gear km/h | 0÷7     | 0÷7     |
| 2 <sup>nd</sup> Gear km/h | 0÷28    | 0÷28    |



### AXLES

All wheel drive. Two heavy duty axles with planetary final drives on each wheel. Fixed rigid drive axle on front chassis section. Oscillating drive axle on rear chassis section up to a 20° total angle. Transfer gearbox allowing the rear and the front movement by means of a transmission shaft. Self-locking limited slip differential on front axle (optional on rear axle).



### BRAKES

Service: drum-brake hydraulically operating on front axle working on all wheels. Parking brake: mechanical drum-brake operating on service brake, manually activated.



### TYRES

|          |                                           |
|----------|-------------------------------------------|
| Standard | 12.0/75-18 12pr                           |
| Optional | 10.5-18 10pr • 12.5-18 10pr • 15.5/55 R18 |



### STEERING

Servo assisted hydraulic steering with LOAD SENSING system.

|                                |          |
|--------------------------------|----------|
| Total steering angle           | 80°      |
| Inner tyres turning radius     | mm 2.193 |
| External tyres turning radius  | mm 3.790 |
| External bucket turning radius | mm 4.210 |



### HYDRAULIC SYSTEM

Hydraulic gear pump with LOAD SENSING priority valve for steering circuit. 2-section modular control valve with main relief valve. Double-acting hydraulic cylinders. Hydraulic oil cooling radiator. Full-flow oil filter on the return circuit. Single control cloche-lever with 4-position bucket lifting system and 3-position auxiliary control system.

|                                |       |        |
|--------------------------------|-------|--------|
| Max flow                       | lt/1' | 60     |
| Loader relief valve pressure   | bar   | 230    |
| Steering relief valve pressure | bar   | 190    |
| Lift cylinder                  | mm    | 70x937 |
| Bucket cylinder                | mm    | 80x395 |



### SERVICES CAPACITIES

|                      |    |     |
|----------------------|----|-----|
| Engine               | lt | 8   |
| Front axle           | lt | 5,8 |
| Rear axle + gear box | lt | 6,5 |
| Hydraulic circuit    | lt | 57  |
| Brake system         | lt | 1,1 |
| Fuel                 | lt | 70  |
| Water cooling        | lt | 10  |



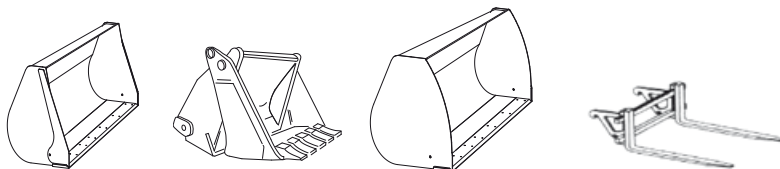
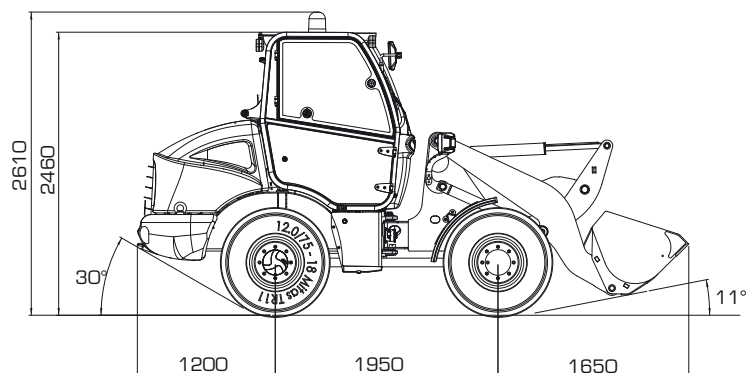
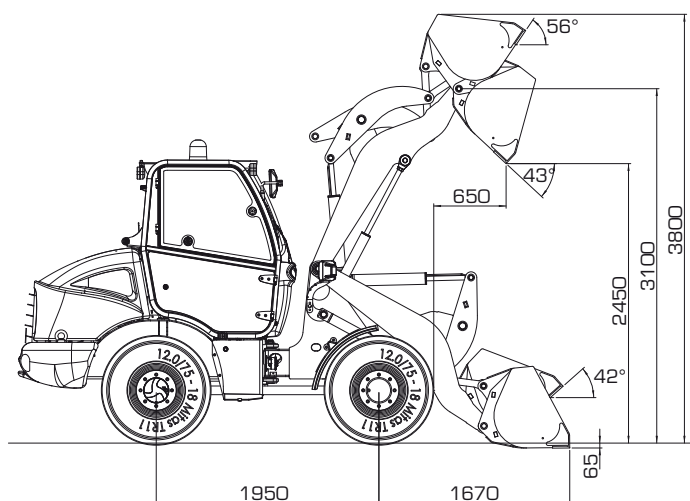
### TECHNICAL FEATURES

|                                 |    |       |
|---------------------------------|----|-------|
| Standard bucket capacity        | m³ | 0,75  |
| Bucket width                    | mm | 1.700 |
| Straight static tipping load    | kg | 3.300 |
| Full turned 40° tipping load    | kg | 3.000 |
| Lifting capacity at max. height | kg | 3.100 |
| Dump clearance                  | mm | 3.100 |
| Dump height at 43°              | mm | 2.450 |
| Reach at 43°                    | mm | 650   |
| Breakout force                  | kg | 5.300 |



### DIMENSIONS AND WEIGHT

|                                 |    |       |
|---------------------------------|----|-------|
| Max lenght in transfer position | mm | 4.800 |
| Max width in transfer position  | mm | 1.700 |
| Max height                      | mm | 2.460 |
| Track width                     | mm | 1.320 |
| Overall tyre width              | mm | 1.640 |
| Wheel base                      | mm | 1.950 |
| Ground clearance                | mm | 370   |
| Standard operating weight       | kg | 4.350 |
| Max permissible weight          | kg | 5.650 |



| <b>PERFORMANCE DATA</b>                     |                | <b>UNIVERSAL<br/>BUCKET</b> | <b>MULTI PURPOSE<br/>BUCKET</b> | <b>OVERSIZE</b> | <b>FORKS</b> |
|---------------------------------------------|----------------|-----------------------------|---------------------------------|-----------------|--------------|
| Full load bucket capacity (SAE)             | m <sup>3</sup> | 0,75                        | 0,6                             | 1,2             | /            |
| Bucket width                                | mm             | 1.700                       | 1.700                           | 1.900           | /            |
| Bucket weight                               | kg             | 250                         | 350                             | 350             | /            |
| Max operative height                        | mm             | 3.800                       | 3.750                           | 3.850           | /            |
| Forks length (Standard)                     | mm             |                             |                                 |                 | 1.000        |
| Forks length (Optional)                     | mm             |                             |                                 |                 | 1.200        |
| Height to hinge pin                         | mm             | 3.100                       | 3.100                           | 3.100           | /            |
| Dump angle                                  | °              | 43°                         | 43°                             | 43°             | /            |
| Dump height                                 | mm             | 2.450                       | 2.500                           | 2.400           | /            |
| Reach fully raised                          | mm             | 650                         | 600                             | 700             | /            |
| Max dump distance                           | mm             | 1.450                       | 1.400                           | 1.500           | /            |
| Bucket static tipping load, straight        | kg             | 3.300                       | 3.200                           | 2.900           | /            |
| Bucket static tipping load, full turn (40°) | kg             | 3.000                       | 2.900                           | 2.700           | /            |
| Forks static tipping load, full turn (40°)  | kg             |                             |                                 |                 | 2.400        |
| Forks Payload EN 474-3 (80%)                | kg             |                             |                                 |                 | 1.920        |
| Forks Payload EN 474-3 (60%)                | kg             |                             |                                 |                 | 1.440        |
| Breakout force                              | kg             | 5.400                       | 5.800                           | 5.100           | /            |
| Total length                                | mm             | 4.800                       | 4.750                           | 4.800           | /            |
| External bucket turning radius              | mm             | 4.200                       | 4.000                           | 4.300           | /            |
| Standard operative weight                   | kg             | 4.350                       | 4.700                           | 4.700           | /            |

### TRANSMISSION

|                    |         |
|--------------------|---------|
| % Traction/Weight  | 71 %    |
| Pump               | 500 bar |
| Hydrostatic engine | 500 bar |

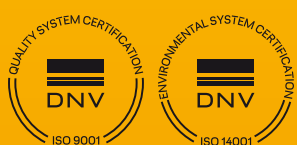


## EQUIPMENT

**2.63D Plus**

|                                                                                                                 |   |
|-----------------------------------------------------------------------------------------------------------------|---|
| › Acoustic warnings                                                                                             | • |
| › Plugs with keys for fuel and hydraulic tanks                                                                  | • |
| › Bucket with bolted teeth                                                                                      | • |
| › ROPS-FOPS cab with heating and pressurization fan, with front and rear windscreen wiper and windshield washer | • |
| › Tool box                                                                                                      | • |
| › Spare parts catalogue                                                                                         | • |
| › Seat belt                                                                                                     | • |
| › Electrically driven 100% blocking slip differential on front axle                                             | • |
| › Safety clamp for lifting cylinders                                                                            | • |
| › 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 panel                                                                                     | • |
| › Hydraulic or mechanical quick couple                                                                          | 0 |
| › Cement mixing bucket                                                                                          | 0 |
| › Multi-purpose 4 in 1 bucket                                                                                   | 0 |
| › Speed reduction kit                                                                                           | 0 |
| › Lifting forks                                                                                                 | 0 |
| › Proportional self lock rear differential                                                                      | - |
| › Electrically driven 100% blocking slip differential on front axle; open on rear axle                          | - |
| › Asphalt and cement planer                                                                                     | 0 |
| › Snow blower                                                                                                   | 0 |
| › "V" type snow blade                                                                                           | 0 |
| › Angle-tilt dozer blade                                                                                        | 0 |
| › Hand operating hammer                                                                                         | 0 |
| › Polishing brush                                                                                               | 0 |
| › Trencher                                                                                                      | 0 |

• Standard   ☒ Optional   - Not available



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### Spare Parts

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