



TM

**VENIERI**  
SPA

**1.63C**

ARTICULATED  
WHEEL LOADER







#### **VZPK KINEMATIK.**

**Venieri Z-Parallel Kinematic system** is engineered to reach maximum breakout force, granting **fully parallel movements**.



#### **360 3D VIEW.**

Thanks to the VF 1.63C wide cabin you get a **full 360° view**, meaning a complete and safe control of the entire working area.



#### **AUTOMOTIVE DISK BRAKE SYSTEM.**

Despite her compact size we also have installed **Disc Brake system**, generally mounted on big Loaders only: we take care about You.



#### **3 CABINS 3 OPTIONS JUST 1 MACHINE.**

Feel free to configure your VF 1.63C with **3 different type of cabin**, following your needs and your working condition.



#### **LED LAMP.**

Last generation of led lamp grant **maximum visibility** with **minimum absorb.**

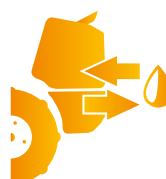


*Venierina*



#### **PERFECT STABILITY.**

Rear oscillating axle fitted (like big loaders) with maintenance free supports.



#### **REAR TOOL CARRIER.**

Thanks to the rear hydraulic and electric connections you can easily add rear attachments.



#### **50 HP OF PURE JAPANESE POWER.**

Simplicity and reliability are the two main features that brought Venieri to choose **Yanmar** engines: the best in terms of power economy and emissions. 4 cylinders, direct injection, water cooled, paper dry filter. Emissions Stage IIIa/Tier III



#### **TYRE RANGE FOR ANY KIND OF APPLICATION.**

**Big range of tyres** selected for **any kind of terrain and application:** industrial, agri, construction, etc.



#### **100% VENIERI DESIGN.**

As in all Venieri new machines, our **Venieri Design Center** follows the "family feelings" but introduces significant **stylistic innovations**.

# 1.63C

## WHEEL LOADER

### "VZPK" Z-PARALLEL KINEMATIK



#### DIESEL ENGINE

Engine: 4 cylinders, direct injection, water cooled, paper dry filter.

Emissioned according to Directive CE 97/68 stage IIIA

|                        |                       |
|------------------------|-----------------------|
| Type                   | Yanmar 4TNV88         |
| Max power              | 36kW - 50 HP          |
| Rated rpm              | 3.000                 |
| Net power ISO/TR 14396 | 35 kW - 48 HP         |
| Net power EEC/80/1269  | 35 kW - 48 HP         |
| Bore                   | mm 88                 |
| Stroke                 | mm 90                 |
| Displacement           | cm <sup>3</sup> 2.190 |



#### ELECTRIC SYSTEM

|                     |                   |
|---------------------|-------------------|
| Battery             | 12 Volt           |
| Capacity EN 60095-1 | 80 Ah - 770 A     |
| Alternator rating   | 65 A              |
| Reverse warning     | Standard          |
| Wiring according to | IP 67 - 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.

| STD                       | Forward | Backward |
|---------------------------|---------|----------|
| 1 <sup>st</sup> gear km/h | 0÷7     | 0÷7      |
| 2 <sup>nd</sup> gear km/h | 0÷27    | 0÷27     |

| OPT                       | Forward | Backward |
|---------------------------|---------|----------|
| 1 <sup>st</sup> gear km/h | 0÷8     | 0÷8      |
| 2 <sup>nd</sup> gear km/h | 0÷40    | 0÷40*    |

\* with optional tyres



#### AXLES

Two heavy duty axles with planetary final drives in each wheel. All wheel drive.

Fixed rigid drive axle on front chassis section.

Oscillating drive axle on rear chassis section up to a total angle of 24°.

Transfer gearbox transferring movement directly to the rear and to the front via a transmission shaft. Self-locking limited slip differential on front axle (optional on rear axle).



#### BRAKES

Service: disk brake hydraulically operating on front axle, working on all wheels. Parking brake: mechanical drumbrake operating on service brake, manually actuated.



#### TYRES

|             |  |
|-------------|--|
| Standard    | 12.0-16,5  |
| A richiesta | 10.0/75-15,3 • 31-15.50-15<br>420/55 R17 • 11 LR16 |



#### STEERING

Servo assisted steering hydraulic LOAD SENSING system.

|                                |          |
|--------------------------------|----------|
| Total steering angle           | 90°      |
| Inner tyres turning radius     | mm 1.418 |
| External tyres turning radius  | mm 2.824 |
| External bucket turning radius | mm 3.219 |



#### HYDRAULIC SYSTEM

Hydraulic gear pump with LOAD SENSING priority valve for steering circuit.

3-section modular control valve with main relief valve. Double-acting hydraulic cylinders. Hydraulic oil cooling radiator.

Full-flow oil filter on the leakage pipe. Single cloche-lever arm control with 4-position lifting system and button auxiliary system.

|                                |       |        |
|--------------------------------|-------|--------|
| Max flow                       | lt/1' | 58     |
| Loader relief valve pressure   | bar   | 190    |
| Steering relief valve pressure | bar   | 190    |
| Lift cylinder                  | mm    | 65x635 |
| Bucket cylinder                | mm    | 85x320 |



#### SERVICE CAPACITIES

|                      |    |     |
|----------------------|----|-----|
| Engine               | lt | 8   |
| Front axle           | lt | 5,8 |
| Rear axle + gear box | lt | 6,5 |
| Hydraulic circuit    | lt | 50  |
| Brake system         | lt | 1,1 |
| Fuel                 | lt | 42  |
| Water cooling        | lt | 9   |



#### TECHNICAL FEATURES\*

|                                 |                |       |
|---------------------------------|----------------|-------|
| Standard bucket capacity        | m <sup>3</sup> | 0,5   |
| Standard bucket width           | mm             | 1.500 |
| Straight static tipping load    | kg             | 2.300 |
| Full turned 45° tipping load    | kg             | 1.850 |
| Lifting capacity at max. height | kg             | 2.170 |
| Pin height                      | mm             | 2.960 |
| Dump height at 42°              | mm             | 2.290 |
| Reach at 42°                    | mm             | 660   |
| Breakout force                  | kg             | 3.840 |

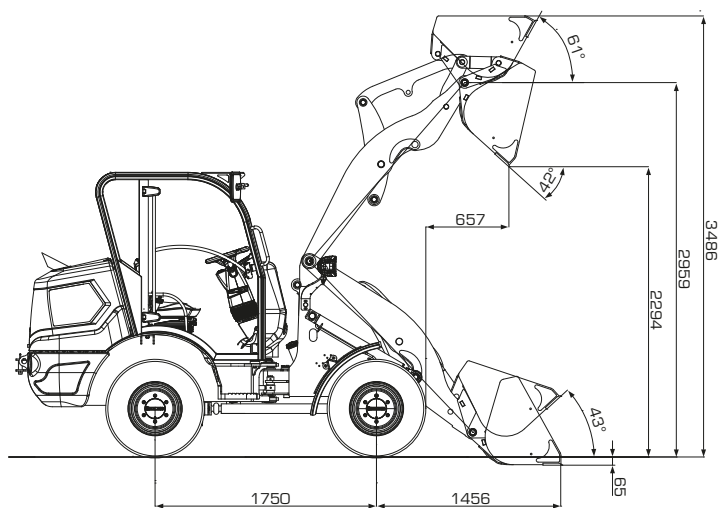
\* With optional tyres 10.0/75 - 15,3



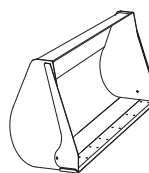
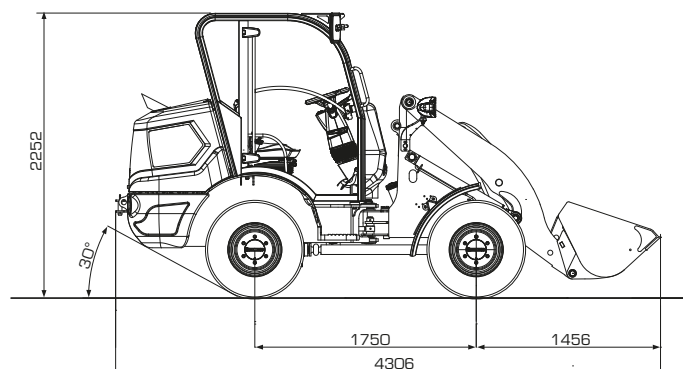
#### DIMENSIONS AND WEIGHTS\*

|                                 |    |       |
|---------------------------------|----|-------|
| Max lenght in transfer position | mm | 4.300 |
| Max width in transfer position  | mm | 1.500 |
| Max height                      | mm | 2.250 |
| Track width - standard tyres    | mm | 1.100 |
| Overall standard tyre width     | mm | 1.365 |
| Wheel base                      | mm | 1.750 |
| Ground clearance                | mm | 345   |
| Standard operating weight       | kg | 3.100 |
| Max permissible weight          | kg | 3.600 |

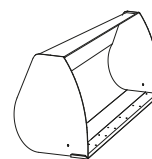
\* With optional tyres 10.0/75 - 15,3



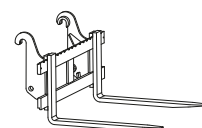
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**UNIVERSAL  
BUCKET**



**OVERSIZE  
BUCKET**



**FORKS**

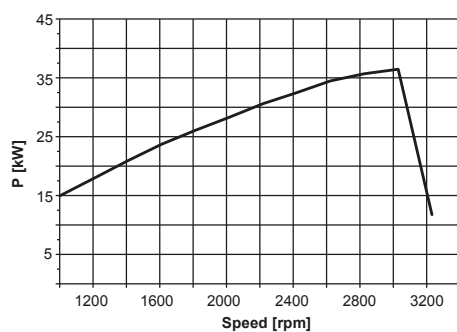


## PERFORMANCE DATA

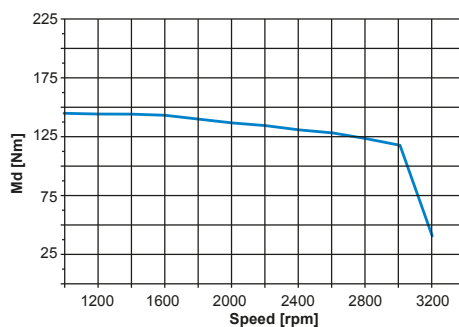
|   |                  |       |       |       |
|---|------------------|-------|-------|-------|
| Full load bucket capacity (SAE)             | m <sup>3</sup>   | 0,5   | 0,8   | /     |
| Density                                     | t/m <sup>3</sup> | 1,8   | 1     | /     |
| Bucket width                                | mm               | 1.500 | 1.700 | /     |
| Bucket weight                               | kg               | 180   | 180   | /     |
| Overall operating height, fully raised      | mm               | 3.490 | 3.610 | /     |
| Forks lengthh (standard)                    | mm               |       |       | 1.000 |
| Forks lengthh (optional)                    | mm               |       |       | 1.200 |
| Hinge pin height                            | mm               | 2.960 | 2.960 | /     |
| Dump clearance                              | °                | 42°   | 42°   | /     |
| Dump height                                 | mm               | 2.295 | 2.200 | /     |
| Dump distance                               | mm               | 660   | 741   | /     |
| Bucket static tipping load, straight        | kg               | 2.300 | 2.150 | /     |
| Bucket static tipping load, full turn (45°) | kg               | 1.850 | 1.720 | /     |
| Forks static tipping load, full turn (45°)  | kg               |       |       | 1.380 |
| Payload EN 474-3 (80%) [•]                  | kg               |       |       | 1.104 |
| Payload EN 474-3 (60%) [•]                  | kg               |       |       | 828   |
| Breakout force                              | kg               | 3.840 | 3.249 | /     |
| Total displacement lenght                   | mm               | 4.300 | 4.378 | /     |
| External bucket turning radius              | mm               | 3.220 | 3.345 | /     |
| Standard operating weight (Canopy version)  | kg               | 3.100 | 3.180 | 3.180 |

[•] Loading center 500mm

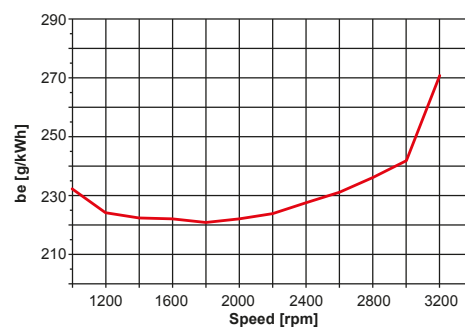
## POWER



## TORQUE



## FUEL CONSUMPTION







## **VENIERI Z PARALLEL KINEMATIC SYSTEM: 100% PARALLEL.**

The arm of VF 1,63C is equipped with a VZPK kinematic system that grants high breakout force while keeping fully parallel movements. The low bucket cylinder grants an excellent front visibility also in the middle of the arm, where normally it's not easy to see.



## **VENIERI REAR HYDRAULIC LINE.**

In order to grant maximum versatility, VF 1.63C "Venierina" can be equipped with rear Hydraulic line to support rear attachments.



### **CABIN**

CLOSE AND HEATED CABIN, WITH AIRCONDITION IN OPTION



### **CANOPY**

CANOPY WITH RETROFITTABLE GLASS AND DOORS.



### **ROLLBAR ROOF**

FOLDABLE ROLLBAR



## BASIC MACHINE



|  |   |
|--|---|
| Battery main switch                              | • |
| Tool box   | • |
| Fuel preheating (cold climates)                  | 0 |
| Plugs with keys for fuel and hydraulic tanks     | • |
| Proportional self lock front differential        | • |
| Proportional self lock rear differential         | 0 |
| Differential lock 100 % engageable in front axle | 0 |
| Trailer coupling                                 | • |
| Warning beacon                                   | • |
| Soundproofing                                    | • |
| Spare parts catalogue                            | • |
| User manual                                      | • |
| Type-approval for road traffic                   | • |
| Safety clamp for bucket and lifting cylinders    | • |
| Autolevelling ground level for bucket            | • |
| Speed reduction kit                              | 0 |
| "Venieri GLOBAL" system                          | - |
| Double-speed hydraulic fan                       | - |
| Reversible fan (for radiator cleaning)           | - |
| Hydraulic negative parking brake                 | - |
| Service brake on front axle                      | • |
| Inch pedal integrated in brake pedal             | 0 |
| Greasing points grouped on the frame             | 0 |
| Automatic centralized greasing system            | 0 |
| Ride control                                     | 0 |
| Engine preheating system                         | 0 |
| Environmentally-friendly hydraulic oil           | 0 |
| Hydraulic oil ISO 46 (cold climates)             | 0 |
| Cyclone dust separator                           | 0 |

## CABIN EQUIPMENT



|   |   |
|---|---|
| Foldable Roll-Bar homologated ROPS/FOPS I                           | 0 |
| 4 post Canopy homologated ROPS/FOPS I                               | • |
| Closed cabin homologate ROPS/FOPS I, pressurized and soundproofed   | 0 |
| Front and rear windscreen wiper with washer (only for closed cabin) | • |
| LED work lights (2 front + 2 rear)                                  | • |
| Document compartment  | • |
| Seat with mechanical suspension                                     | • |
| Seat with pneumatic suspension                                      | 0 |
| Seat with pneumatic suspension and heating                          | 0 |
| Seat armrests   | - |
| Buzzer  | • |
| Cabin carpet  | • |
| Clothes hangers   | 0 |
| Radio preparation (only for closed cabin)                           | • |
| Supplementary socket 12V  | • |
| Manual Air Conditioning   | 0 |
| „Climatronic Venieri" system  | 0 |
| Ceiling lamp (only for closed cabin)                                | • |
| Sun visor   | - |
| Rear view mirrors   | • |
| Heatable rear view mirrors  | 0 |
| First-aid kit   | 0 |
| Fire extinguisher 2kg   | 0 |
| Seat belt   | • |
| Instrumentation and dashboard with LCD display                      | • |
| Safety glass breaker  | 0 |

## SPECIAL EQUIPMENT



|   |   |
|---|---|
| Hydraulic quick coupler                         | 0 |
| Cement mixing bucket                            | 0 |
| Multipurpose bucket (4 in 1)                    | 0 |
| Lifting forks                                   | 0 |
| Agricultural fork with hydraulic grapple widthh | 0 |
| Grab for wrapped bales                          | 0 |
| Bucket with hydraulic grapple                   | 0 |
| Front cutting head                              | 0 |
| Asphalt and cement planer                       | 0 |
| Snow blower                                     | 0 |
| Snow blade and "V" type snow blade              | 0 |
| Angle-tilt dozer blade                          | 0 |
| Hand operating hammer                           | 0 |
| Polishing brush                                 | 0 |
| Trencher  | 0 |
| Auger   | 0 |
| High tip bucket                                 | 0 |
| high flow kit                                   | 0 |
| Unpressurized return pipe                       | 0 |
| Double auxiliary line                           | 0 |
| Rear hydraulic line (single effect)             | 0 |

## STANDARD EQUIPMENTS\*



**ANGLE ROLL  
SWEPER**



**SWEEPER**



**MIXING BUCKET**



**4 IN 1 BUCKET**



**ANGLE DOZER  
BLADE**



**SNOW BLADE**



**GRAB FOR  
WRAPPED BALES**



**GRAPPLE BUCKET**



**GRAPPLE FORK**



**GRASS CUTTER**



**FRONT  
CUTTING HEAD**



**ROUND BALE FORK**



**LASER ANGLE  
DOZER BLADE**



**AUGER**



**SNOW BLOWER**



**PALLET FORK**

\* Equipments available on stock; others on request.



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### Spare Parts

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