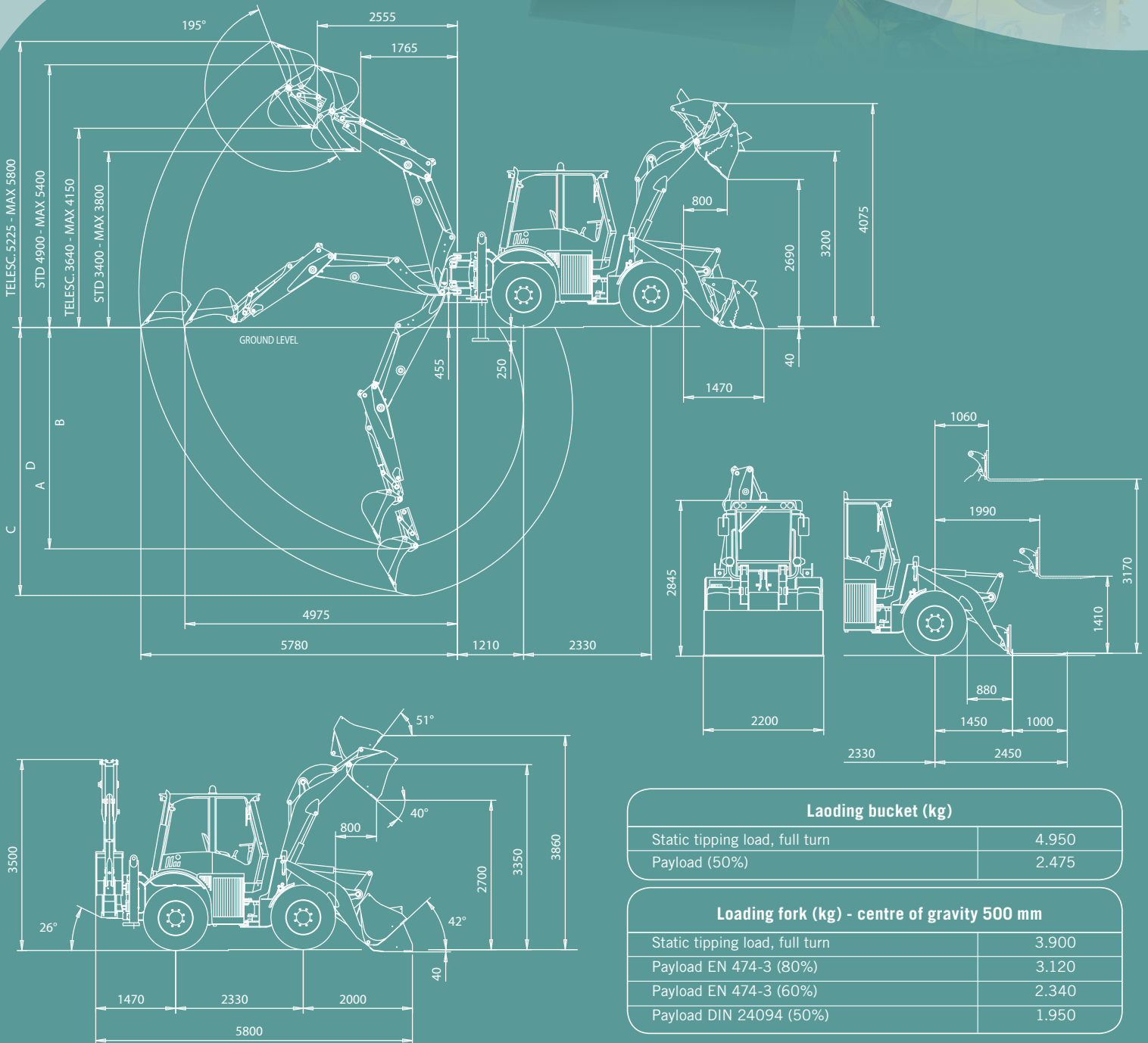


# R-23E

- Max power 105 CV
- Bucket capacity 1.1 - 1.4 m<sup>3</sup>
- Max digging depth 4.60 m (5.40 m)
- Max operative weight 8.000 kg
- Hydrostatic transmission
- 4 wheel drive



**Venieri**  
articulated  
backhoe loader



#### Loading bucket (kg)

|                                |       |
|--------------------------------|-------|
| Static tipping load, full turn | 4.950 |
| Payload (50%)                  | 2.475 |

#### Loading fork (kg) - centre of gravity 500 mm

|                                |       |
|--------------------------------|-------|
| Static tipping load, full turn | 3.900 |
| Payload EN 474-3 (80%)         | 3.120 |
| Payload EN 474-3 (60%)         | 2.340 |
| Payload DIN 24094 (50%)        | 1.950 |

## DIESEL ENGINE

Engine: 4 cylinder, turbocharged, direct injection diesel engine, water-cooled, paper dry filter. Emissioned engine according the CEE 97/68 stage IIIA.

|                              |                      |
|------------------------------|----------------------|
| Type .....                   | Perkins 1104 D 44T   |
| Max power .....              | 77 kW - 105 HP       |
| Rated rpm .....              | 2200                 |
| Net power ISO/TR 14396 ..... | 70 kW - 95 HP        |
| Net power EEC 80/1269 .....  | 70 kW - 95 HP        |
| Bore .....                   | mm 105               |
| Stroke .....                 | mm 127               |
| Displacement .....           | cm <sup>3</sup> 4400 |

## ELECTRIC SYSTEM

|                              |                 |
|------------------------------|-----------------|
| Battery .....                | 12 Volt         |
| Capacity EN 60095-1 .....    | 100 Ah - 1080 A |
| Alternator rating .....      | 65 A            |
| Reverse warnig .....         | Standard        |
| Wiring according width ..... | IP 67 DIN 40050 |

## TRANSMISSION

Hydrostatic transmission with automatic 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). Automatic gearshift for travelling.

| <i>Work speed</i>         | <i>forward</i> | <i>reverse</i> |
|---------------------------|----------------|----------------|
| 1 <sup>st</sup> gear km/h | 0÷6            | 0÷6            |
| 2 <sup>nd</sup> gear km/h | 0÷12           | 0÷12           |
| <i>Road speed</i>         | <i>forward</i> | <i>reverse</i> |
| 1 <sup>st</sup> gear km/h | 0÷18           | 0÷18           |
| 2 <sup>nd</sup> gear km/h | 0÷40           | 0÷40           |

## AXLES

Axles designed for heavy duties.  
All wheel drive.  
Planetary final drives in each wheel.  
Front axle: rigid.  
Rear axle: oscillating up to a total angle of 20° with "Limited Slip" differential.  
Hydraulic locking device on rear oscillating axle.

## BRAKE SYSTEM

Service: multi disc oil brakes on rear axle working on all the wheels.  
Parking: mechanical brake operating on the transmission shaft manually actuated

## TYRES

|               |                      |
|---------------|----------------------|
| Standard..... | 16/70 - 24           |
| Option .....  | 15-22.5 • 405/70 R24 |

## STEERING

Central articulated frame with servo assisted through DANFOSS OSPC 315 hydraulic **LOAD SENSING** steering unit.

|                                   |         |
|-----------------------------------|---------|
| Total steering angle .....        | 80°     |
| Inner tyres turning radius.....   | mm 2500 |
| Outer tyres turning radius .....  | mm 4600 |
| Outer bucket turning radius ..... | mm 5100 |

## HYDRAULIC SYSTEM

Two hydraulic gear pumps, the first controlling the shovel and power steering circuit and the second controlling the cooling fan. "Combined Flow" circuit for feeding the rear control valve.

Modular two-element control valve for the loader, modular six-element control valve for the backhoe. Regenerative function. Double acting hydraulic cylinders. Hydraulic oil cooling radiator. Full-flow oil filter on the leakage pipe.

|                                     |       |        |
|-------------------------------------|-------|--------|
| Max flow .....                      | lt/1' | 120    |
| Loader relief valve pressure .....  | bar   | 230    |
| Steering relief valve pressure..... | bar   | 175    |
| Lift cylinders .....                | mm    | 85x580 |
| Bucket cylinder .....               | mm    | 90x402 |
| Cycle time.....                     | sec   | 8.6    |

### Loader control

Single lever arm-control with 4-position lifting system and with 3-position bucket system.

### Backhoe control

Two levers backhoe control, "cloche" type.  
Two hydraulic-control independent stabilizers.  
Side translation with four hydraulic locking devices.

## SERVICE CAPACITIES

|                         |    |     |
|-------------------------|----|-----|
| Engine .....            | kg | 9   |
| Gearbox .....           | kg | 1   |
| Differential .....      | kg | 3,5 |
| Planetary gear .....    | kg | 1,5 |
| Hydraulic circuit ..... | kg | 115 |
| Barke system .....      | kg | 0,6 |
| Fuel .....              | lt | 85  |
| Water cooling .....     | lt | 19  |

## TECHNICAL FEATURES

### Loader:

|  |                |      |
|--|----------------|------|
| Standard bucket capacity .....                       | m <sup>3</sup> | 1,10 |
| Bucket width .....                                   | mm             | 2200 |
| Breakout force.....                                  | kg             | 6900 |
| Max hydraulic lifting capacity at maximum height ... | kg             | 4100 |
| Dump clearance .....                                 | mm             | 3350 |
| Dump height at 40° .....                             | mm             | 2700 |
| Reach at 40° .....                                   | mm             | 800  |

### Backhoe:

|  |    |       |
|--|----|-------|
| Type .....   | VF | 4.35C |
| Standard bucket capacity .....                           | lt | 150   |
| Standard bucket width .....                              | mm | 500   |
| Dipperstick max. penetration capacity .....              | kg | 2550  |
| Max. breakout force on the bucket tip.....               | kg | 4560  |
| Max hydr. lifting capacity on the bucket pin up .....    | kg | 1400  |
| Rotation.....  |    | 180°  |
| A - Max digging depth .....                              | mm | 4600  |
| B - Standard digging depth (SAE) .....                   | mm | 4300  |
| C - Max digging depth with telescopic (opt.) .....       | mm | 5400  |
| D - Standard digging depth (SAE) with telesc. (opt)..... | mm | 5100  |

## DIMENSIONS AND WEIGHTS

|                                       |    |      |
|---------------------------------------|----|------|
| Max leghth in transfer position ..... | mm | 5900 |
| Max width in transfer position .....  | mm | 2200 |
| Width across tyres .....              | mm | 2060 |
| Tracks width .....                    | mm | 1650 |
| Maximum height.....                   | mm | 3500 |
| Ground clearance .....                | mm | 320  |
| Standard weight in running order..... | kg | 7500 |
| Max weight in running order.....      | kg | 8000 |

# S.23E

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