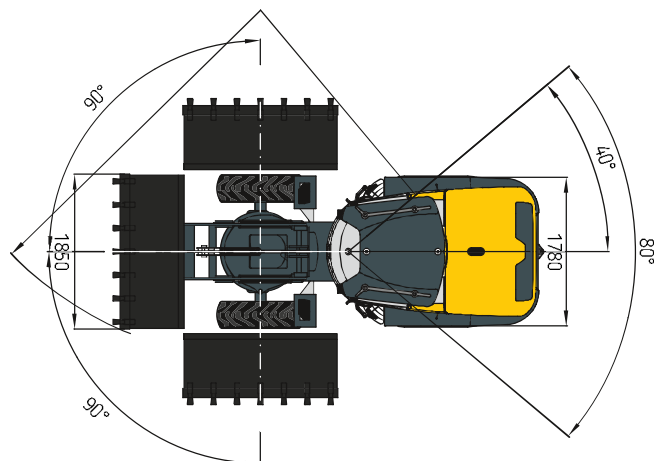
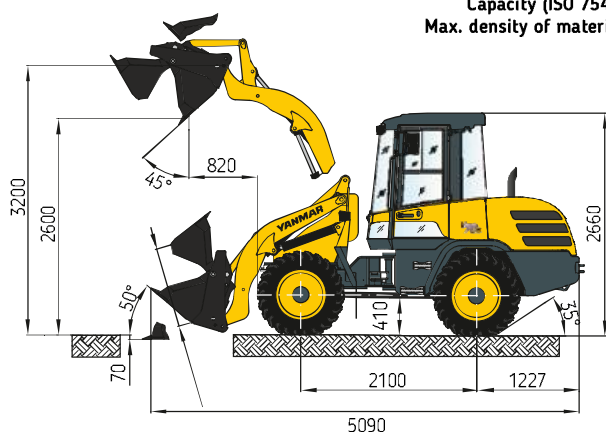


# DIMENSIONS



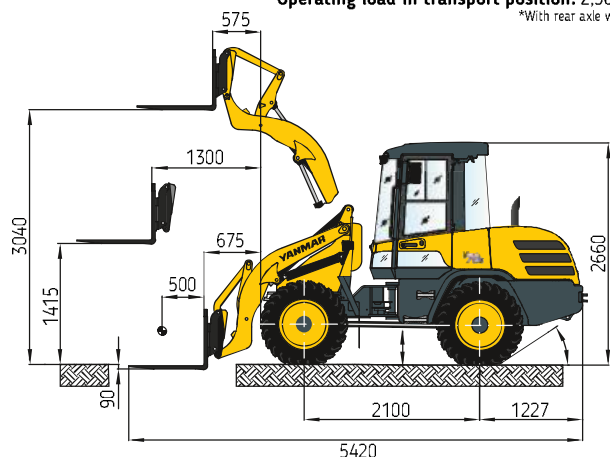
## GENERAL-PURPOSE BUCKET

Capacity (ISO 7546): 0.70 m<sup>3</sup>  
Max. density of material: 1.8 t/m<sup>3</sup>



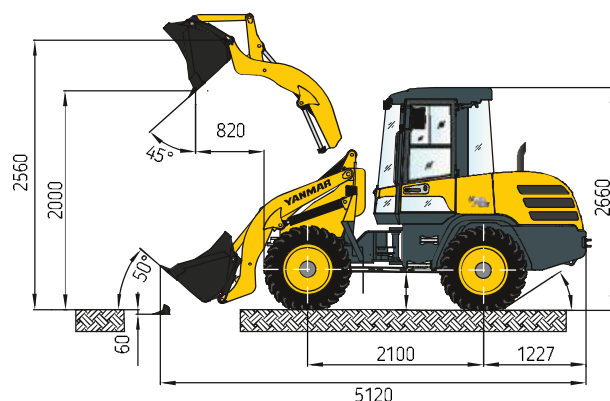
## FORK LIFT ATTACHMENT

Operating load over total lift range: 2,000 (2,200\*) kg  
Operating load in transport position: 2,500 kg  
\*With rear axle weights



## MULTI-PURPOSE BUCKET

Capacity (ISO 7546): 0.65 m<sup>3</sup>  
Max. density of material: 1.6 t/m<sup>3</sup>



## BUCKET TYPE

|   | Contents            | Density              | Width   | Dump height |
|---|---------------------|----------------------|---------|-------------|
| General-purpose bucket, quick-hitch system (QAS), teeth | 0,65 m <sup>3</sup> | 1,8 t/m <sup>3</sup> | 1850 mm | 2600 mm     |
| General-purpose bucket, QAS, bolt-on cutting edge       | 0,65 m <sup>3</sup> | 1,8 t/m <sup>3</sup> | 1850 mm | 2565 mm     |
| Earth bucket, QAS, teeth                                | 0,72 m <sup>3</sup> | 1,6 t/m <sup>3</sup> | 1850 mm | 2540 mm     |
| Earth bucket, QAS, bolt-on cutting edge                 | 0,72 m <sup>3</sup> | 1,6 t/m <sup>3</sup> | 1850 mm | 2500 mm     |
| Light-material bucket, QAS, bolt-on cutting edge        | 0,80 m <sup>3</sup> | 1,2 t/m <sup>3</sup> | 1850 mm | 2450 mm     |
| Multi-purpose bucket, QAS, teeth                        | 1,00 m <sup>3</sup> | 0,8 t/m <sup>3</sup> | 1850 mm | 2540 mm     |
| Multi-purpose bucket, QAS, bolt-on cutting edge         | 0,60 m <sup>3</sup> | 1,6 t/m <sup>3</sup> | 1850 mm | 2485 mm     |
| High-tip bucket, QAS, without teeth                     | 0,50 m <sup>3</sup> | 1,8 t/m <sup>3</sup> | 1850 mm | 3470 mm     |
| Quarry bucket, QAS                                      | 0,65 m <sup>3</sup> | 1,2 t/m <sup>3</sup> | 1850 mm | 2530 mm     |

### EXAMPLES OF MATERIAL DENSITIES

Granite, basalt, sand (damp), gravel (damp), slate: 1.8 – 2.2 t/m<sup>3</sup> Topsoil, clay, mineral coal: 1.1 – 1.6 t/m<sup>3</sup> Sandstone, gypsum, limestone, soil (damp), sand (dry), gravel (dry): 1.5 – 1.8 t/m<sup>3</sup> Wood chips (dry), compost, coke: 0.2 – 1.0 t/m<sup>3</sup>

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# SPECIFICATIONS

## [ OPERATING DATA, STANDARD EQUIPMENT ]

|   |          |
|---|----------|
| Operating weight (ISO 6016)             | 5 400 kg |
| Tipping load, straight (ISO 14397-1)    | 3 950 kg |
| Tipping load, articulated (ISO 14397-1) | 3 940 kg |
| Total length, bucket on ground          | 4 780 mm |
| Total width                             | 1 700 mm |
| Turning radius at outside bucket edge   | 3 870 mm |
| Wheelbase                               | 1 950 mm |
| Total height (top of cab)               | 2 610 mm |

## [ ENGINE ]

|   |  |
|---|--|
| Manufacturer, model                       | Deutz, TCD 2.9 L4  |
| Type                                      | Turbo diesel engine with intercooler, exhaust-gas optimised<br>EU Stage III B, EPA TIER IV final |
| Combustion                                | 4-stroke cycle, Common Rail injection  |
| Number of cylinders                       | 4 in line  |
| Displacement                              | 2 900 cm <sup>3</sup>  |
| Net power rating at 2,200 rpm (ISO 14396) | 45 kW (61 HP)  |
| Max. torque                               | 240 Nm at 1 600 rpm  |
| Cooling system                            | Water  |

## [ ELECTRICAL SYSTEM ]

|  |                                    |
|--|------------------------------------|
| Nominal voltage  | 12 V                               |
| Battery  | 12 V / 77 Ah / 760 A (DIN-EN50342) |
| Generator  | 14 V / 95 A                        |
| Starter  | 12 V / 2,6 kW (3,5 CV)             |
| Cold-starting aid  | Glow plugs 12 V                    |
| Lighting system in compliance with StVZO and European standards, halogen H7 headlamps, 2 working floodlights front |                                    |

## [ POWER TRANSMISSION ]

|   |        |  |                  |
|---|--------|--|------------------|
| Hydrostatic drive, closed circuit, independent from loader hydraulics. Perfected driving automatics, automatic optimisation and adjustment of drawbar pull and speed. Hydraulic motor power shift providing two speed ranges. Infinitely variable speed control forward and reverse. 4-wheel drive from reduction gear on rear axle via cardan shaft to front axle. |        |  |                  |
| Inch-brake-drive pedal for sensitive driving and stopping at high rpm.  |        |  |                  |
| 2 speed ranges:   | "Low"  |  | 0-4 km/h         |
|   | "High" |  | 0-20 km/h        |
| 4 speed ranges<br>(high-speed<br>version optional):   | "Low"  |  | 0-5 / 0-10 km/h  |
|   | "High" |  | 0-16 / 0-36 km/h |

## [ AXLES ]

|  |       |
|--|-------|
| Front: Rigid planetary final drive axle, centre-mounted disc brake. Limited slip-type differential 35%.  |       |
| Rear: Oscillating planetary final drive axle, with integrated reduction gear, oscillation locking with slewed uppercarriage. Limited slip-type differential 35%. |       |
| Angle of oscillation   | ± 10° |

## [ BRAKES ]

|                  |  |
|------------------|--|
| Service brake:   | Hydraulically actuated centre-mounted disc brake, acting on all 4 wheels via 4-wheel drive |
| Auxiliary brake: | Hydrostatic through closed-circuit travel drive  |
| Parking brake    | Mechanically actuated centre-mounted disc brake on front axle                              |

## [ TIRES ]

|          |                         |
|----------|-------------------------|
| Standard | 405/70 R 18 SPT9 Dunlop |
|----------|-------------------------|

**PROVISIONAL**

# SPECIFICATIONS

## [ STEERING ]

Articulated steering, fully hydraulic, 1 steering cylinder with final positioning damping on both sides, oil supply via Load-Sensing priority valve, quick and easy steering even at engine idle-running speed.

|                      |     |
|----------------------|-----|
| Total steering angle | 80° |
|----------------------|-----|

## [ FLUID CAPACITIES ]

|           |      |
|-----------|------|
| Fuel tank | 75 l |
|-----------|------|

|                               |      |
|-------------------------------|------|
| Hydraulic system (incl. tank) | 55 l |
|-------------------------------|------|

## [ NOISE LEVEL ]

|                                   |          |
|-----------------------------------|----------|
| Sound pressure level (LpA) in cab | 76 dB(A) |
|-----------------------------------|----------|

|  |           |
|--|-----------|
| Sound power level (LWA) around the machine according to 2000/14/EC | 101 dB(A) |
|--|-----------|

## [ HYDRAULIC SYSTEM ]

|               |          |
|---------------|----------|
| Pump capacity | 64 l/min |
|---------------|----------|

|                  |         |
|------------------|---------|
| Working pressure | 250 bar |
|------------------|---------|

Control unit: Proportional hydraulic valve with 3 control circuits, supplying work functions "Lift / Lower", "Dump / Tilt-back with high-speed control" and "3rd control circuit (1st additional control circuit)". Simultaneous, independent control of all movements.

Hydraulic cylinders: 2 lifting cylinders, 1 tilt cylinder, 2 swing cylinders, all dual-action

The thermostatically controlled oil circuit ensures that the oil temperature is promptly reached and avoids overheating. Return filter installed in hydraulic tank allows for eco-friendly replacement of filter elements.

Hydraulically switchable float position by overdriving the pressure point "Lower" on the joystick, electrically switchable continuous operation function.

Hydraulically switchable float position by overdriving the pressure point "Lower" on the joystick, electrically switchable continuous operation function.

Single, four-way control lever (joystick) with integrated swing controller, direction-of-travel switch and switch for additional control circuit.

## [ LOADER FRAME ]

Loader installation featuring true parallel linkage and integrated mechanical (optionally hydraulic) quick-attach system.

|                                   |         |
|-----------------------------------|---------|
| General-purpose bucket (ISO 7546) | 0,80 m³ |
|-----------------------------------|---------|

|                             |       |
|-----------------------------|-------|
| Lifting force (ISO 14397-2) | 48 kN |
|-----------------------------|-------|

|   |         |
|---|---------|
| Breakout force at bucket edge (ISO 14397-2) | 45,9 kN |
|---|---------|

## [ FORK LIFT ATTACHMENT ]

|   |                   |
|---|-------------------|
| Operating load over the total lift and steering range | 2 050 (2 250*) kg |
|---|-------------------|

|                                       |   |
|---------------------------------------|---|
| Operating load in transport position, | approx. 300 mm above ground level, total steering range 2 500* kg |
|---------------------------------------|---|

|                       |          |
|-----------------------|----------|
| Width of fork carrier | 1 240 mm |
|-----------------------|----------|

|                                   |          |
|-----------------------------------|----------|
| Length pallet forks (100 x 45 mm) | 1 100 mm |
|-----------------------------------|----------|

|                  |      |
|------------------|------|
| Stability factor | 1,25 |
|------------------|------|

Operating load determined acc. to ISO 14397-2 and EN ISO 474-3 on level ground = 80 % of tipping load.

## [ CAB ]

Rubber-mounted full-vision steel cab, ROPS\* (EN ISO 3471) and FOPS\*\* (EN ISO 3449) certified.

Cab featuring two doors, electric windscreen intermittent wipers and washer (front and rear), tinted panoramic safety glass, sliding window on left-hand side.

Driver's seat MSG85 (standard version) with hydraulic cushioning, weight-adjustable, longitudinal and height adjustment and lap belt in compliance with ISO 7096 and ISO 6683.

Cab heating by engine coolant heat exchanger with 3-speed heater fan (choice fresh air/recirculating air) and windscreen defroster, front and rear.

Steering wheel with height and tilt adjustment

Air conditioning and radio pre-installation

\*With rear axle weights \*\*FOPS-approved only with skylight guard (optional)

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# OPTIONAL EQUIPMENT

## [ OPTIONS ]

### TIRES

405/70 R 18 EM 01 Mitas | 340/80 R 18 TRI2 Nokian | 340/80 R 20 XMCL Michelin | 335/80 R 20 MPT E-70 Conti | 400/70 R 20 IT520 Goodyear | 405/70 R 20 SPT9 Dunlop | 405/70 R 20 EM01 Mitas | 500/45-20 J331 Alliance | Non-standard tires available on request

### FRONT ATTACHMENTS

General-purpose bucket\* : 0,80 m<sup>3</sup> | Earth bucket\* : 0,90 m<sup>3</sup> | Light-material bucket\* : 1,00 m<sup>3</sup> | Light-material bucket\* : 1,20 m<sup>3</sup> | Side-dump bucket\* : 0,70 m<sup>3</sup> | High-tip bucket, without teeth : 0,70 m<sup>3</sup> | Multi-purpose bucket\* : 0,75 m<sup>3</sup> | Quarry bucket : 0,75 m<sup>3</sup> | Compost bucket : 0,95 m<sup>3</sup> | Front ripper with 4 prongs | Fork lift attachment: Fork carrier, 1,240 mm wide | Forks, 1 100 mm, 100 x 45 mm | Forks, 1 200 mm, 100 x 45 mm | Forks, 1 500 mm, 100 x 45 mm | Forks 1 120 mm, 120 x 50 mm, foldable (StVZO approval possible) | Forks 1 200 mm, 120 x 50 mm, foldable (StVZO approval possible) | Load hook, attachable on fork arms | Load hook, integrated in quick-attach system | Broom bucket | Snow blade

### DRIVER'S STAND

Operator's seat MSG 85 (comfort version), hydraulic damping, extra-high backrest, weight-adjustable, lap belt | Air-cushioned operator's seat MSG 95 (premium version) with orthopedic lumbar support, extra-high backrest, adjustable armrests, headrest, seat and backrest heating | Engine-independent diesel heater with timer | Fire extinguisher

### DIESEL ENGINE

Diesel engine with diesel particulate filter (DPF) | Guard for fan wheel

### HYDRAULIC SYSTEM

4th control circuit, (electrical operation with flow control) and installation on lift frame, incl. couplings and continuous operation e.g. for attachments with 2 hydr. functions | Hydraulic outlet for front hand-held hammer, with flow divider | Open return, on lift frame Bypass filter Kleenoil

### QUICK-HITCH SYSTEMS

Quick-hitch system, hydraulic | Hydraulic installation for hydraulic quick-hitch system

### CAB

FOPS-skylight guard Yellow beacon | Right-hand door with sliding window | Radio installation kit | Working floodlight, rear Air-conditioning

### OTHER OPTIONAL EQUIPMENT

High-speed version 36 kph | Anti-theft device (immobiliser) | Filling with biodegradable hydraulic oil, esterbased, BIO-E-HYD-HEES | Special slow motion versions available on request | Electrical tank refilling pump Rear axle weights, approx. 260 kg | Pilot-controlled hose-rupture valves for lift and tilt cylinders | Quick couplers (flat face) for 3rd control circuit on lift frame | Back-up alarm for reverse travel Ride control system | Central lubrication system Battery disconnecter | Trailer coupling (Rockinger) Acceptance as agricultural or forestry tractor | Manual throttle, transmission deactivated Further optional equipment available on request

\*Optionally with bolt-on cutting edge

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