



1390 Hoftrac

Technical Data

■ Standard engine data

| | |
|--|-----------------------|
| Engine manufacturer | Yanmar |
| Motor type | 3TNV80FT |
| Cylinder | 3 |
| Drive output | 18.4 kW |
| Drive output | 25 PS |
| at max. rpm | 2,600 U/min |
| Cylinder capacity | 1,226 cm ³ |
| Type of coolant | Water |
| Exhaust standard level | V |
| Exhaust aftertreatment | - |
| Average sound power level LwA (operator's canopy) | 99.3 dB(A) |
| Guaranteed sound power level LwA (operator's canopy) | 101 dB(A) |
| Specified sound pressure level LpA (operator's canopy) | 84 dB(A) |
| Average sound power level LwA (cabin) | 99.3 dB(A) |
| Guaranteed sound power level LwA (cabin) | 101 dB(A) |
| Specified sound pressure level LpA (cabin) | 80 dB(A) |

■ Engine data Option 1

| | |
|--|-----------------------|
| Engine manufacturer | Yanmar |
| Motor type | 3TNV86CHT |
| Cylinder | 3 |
| Drive output | 33.3 kW |
| Drive output | 45.3 PS |
| at max. rpm | 2,600 U/min |
| Cylinder capacity | 1,568 cm ³ |
| Type of coolant | Water |
| Exhaust standard level | V |
| Exhaust aftertreatment | DOC/DPF |
| Average sound power level LwA (operator's canopy) | 98.1 dB(A) |
| Guaranteed sound power level LwA (operator's canopy) | 100 dB(A) |

| | |
|--|------------|
| Specified sound pressure level LpA (operator's canopy) | 84 dB(A) |
| Average sound power level LwA (cabin) | 98.1 dB(A) |
| Guaranteed sound power level LwA (cabin) | 100 dB(A) |
| Specified sound pressure level LpA (cabin) | 80 dB(A) |

■ Engine data Option 2

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|--|-----------------------|
| Engine manufacturer | Yanmar |
| Motor type | 3TNV86CHT |
| Cylinder | 3 |
| Drive output | 40.1 kW |
| Drive output | 54.5 PS |
| at max. rpm | 2,600 U/min |
| Cylinder capacity | 1,568 cm ³ |
| Type of coolant | Water |
| Exhaust standard level | V |
| Exhaust aftertreatment | DOC/DPF |
| Average sound power level LwA (cabin) | 97.7 dB(A) |
| Guaranteed sound power level LwA (cabin) | 100 dB(A) |
| Specified sound pressure level LpA (cabin) | 76 dB(A) |

■ Electrical system

| | |
|-------------------|-------|
| Operating voltage | 12 V |
| Battery | 77 Ah |
| Alternator | 80 A |

■ Weights

| | |
|---|-------------------|
| Operating weight | 2,750 - 3,230 kg |
| Thrust force (max.) | 2,158 - 3,492 daN |
| Lift capacity (max.) | 2,448 - 3,592 daN |
| Tipping load with bucket – machine straight, loading frame horizontal | 1,540 - 2,270 kg |
| Tipping load with bucket – machine pivoted, loading frame horizontal | 1,250 - 1,910 kg |
| Tipping load with bucket - machine straight, loading frame in lowest position | 2,270 - 3,890 kg |

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|--|------------------|
| Tipping load with bucket - machine pivoted, loading frame in lowest position | 1,870 - 3,290 kg |
| Tipping load with pallet fork – machine straight, loading frame horizontal | 1,290 - 1,890 kg |
| Tipping load with pallet fork – machine pivoted, loading frame horizontal | 1,050 - 1,600 kg |
| Tipping load with pallet fork - machine straight, transport position | 1,510 - 2,340 kg |
| Tipping load with pallet fork - machine pivoted, transport position | 1,250 - 1,980 kg |

■ Driver's cab

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|--------------|------------------|
| Driver's cab | FSD (eps, cabin) |
|--------------|------------------|

■ Filling levels

| | |
|---------------------------------|------|
| Tank capacity for fuel | 50 l |
| Tank capacity for hydraulic oil | 30 l |

■ Drive system

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|-----------------------|--|
| Type of drive | ecDrive (Electronic Controlled Drive) |
| drive unit | Hydrostatic via transfer gearbox and universal joint shaft |
| Speed levels | 2 |
| Axle | T94 (PA940) |
| Travel speed Standard | 0-20 km/h |
| Travel speed Option 1 | 0-30 km/h |
| Operating brake | Multi-disc brake on front axle acting on rear axle via universal joint shaft |

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|---------------|--|
| Parking brake | Electro-hydraulic multi-disc brakes with spring suspension in the front axle acting on rear axle via articulated universal joint shaft |
|---------------|--|

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|-------------------|-----------------------|
| Differential lock | 100% VA + HA (option) |
|-------------------|-----------------------|

■ Hydraulic system

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|--|----------------------|
| Drive hydraulics working pressure (max.) | 380 (400-470) bar |
| Work hydraulics discharge volume (max.) | 41,6 (49,5-84) l/min |
| Work hydraulics working pressure (max.) | 210 bar |

■ Kinematics

| | |
|---------------------|-----------|
| Kinematics type | P (PZ) |
| Lifting cylinder | 2 |
| Tipping cylinder | 1 |
| Quick change system | hydraulic |

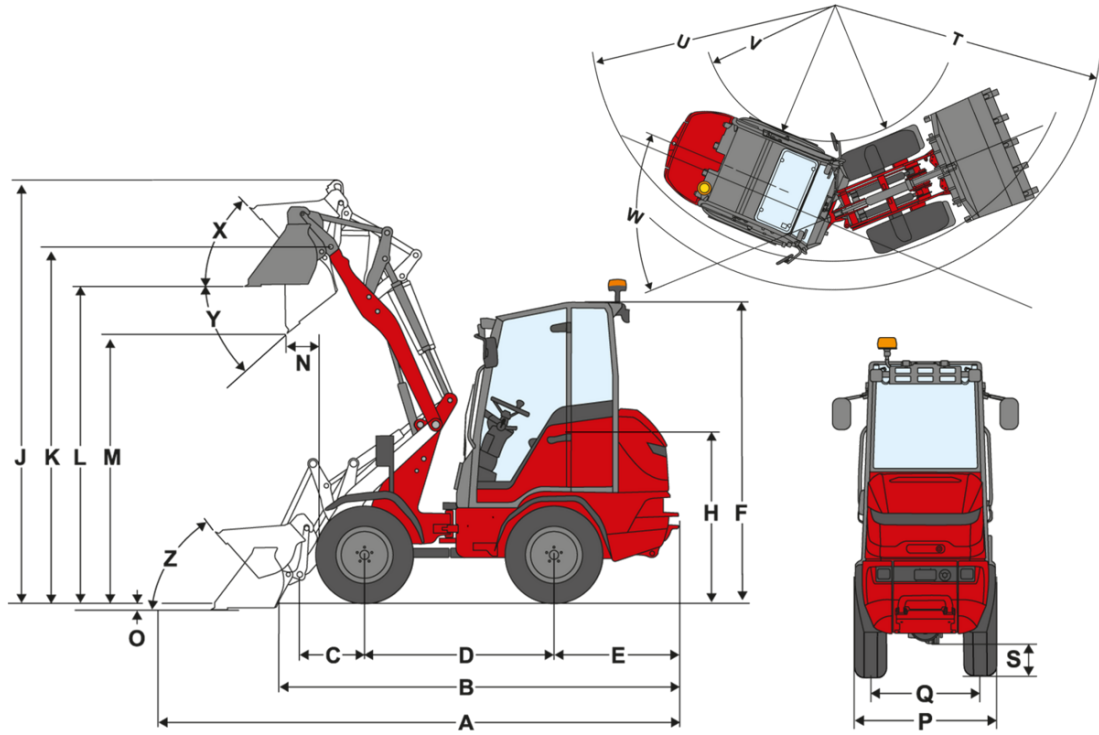
■ Steering

| | |
|-------------------|---|
| Steering type | hydraulically activated articulated pendulum steering |
| Steering cylinder | 1 |
| Oscillating angle | ± 8 degree |

■ Other information

FSD = operator's canopy
eps = Easy Protection System (fold-down operator's canopy)
DPF = diesel particulate filter
DOC = diesel oxidation catalyst
Tipping load calculation pursuant to ISO 14397

Dimensions



| | | P-kinematics (standard) | P-kinematics (long) | PZ-kinematics |
|----------|--|--------------------------------|----------------------------|------------------------|
| | Standard components | 10.0/75 - 15.3 AS ET40 | 10.0/75 - 15.3 AS ET40 | 10.0/75 - 15.3 AS ET40 |
| A | Total length | 4,470 mm | 4,820 mm | 4,630 mm |
| B | Total length without bucket | 3,570 mm | 3,910 mm | 3,730 mm |
| C | Bucket pivot point (to center of axle) | 603 mm | 878 mm | 720 mm |
| D | Wheel base | 1,732 mm | 1,732 mm | 1,732 mm |
| E | Rear overhang | 1,230 mm | 1,230 mm | 1,230 mm |
| F | Height with operator's canopy fixed | 2,320 mm | 2,320 mm | 2,320 mm |
| | Height with fold-down operator's canopy (eps) | 2,375 mm | 2,375 mm | 2,375 mm |
| | Height with fold-down operator's canopy, folded down (eps) | 1,870 mm | 1,870 mm | 1,870 mm |
| | Height with cab | 2,340 mm | 2,340 mm | 2,340 mm |
| H | Seat height | 1,330 mm | 1,330 mm | 1,330 mm |
| J | Total working height | 3,660 mm | 3,930 mm | 3,830 mm |
| K | Bucket pivot point (max. lift height) | 3,004 mm | 3,200 mm | 3,200 mm |
| L | Load-over height | 2,680 mm | 2,880 mm | 2,880 mm |
| M | Dumping height | 2,120 mm | 2,330 mm | 2,380 mm |
| N | Reach (at M) | | 490 mm | 400 mm |
| O | Digging depth | 80 mm | 130 mm | 127 mm |
| P | Total width | 1,124 mm | 1,124 mm | 1,124 mm |
| Q | Track width | 860 mm | 860 mm | 860 mm |
| S | Ground clearance | | | |
| T | Maximum radius | 3,000 mm | 3,150 mm | 3,340 mm |
| U | Radius on the outer edge | 2,710 mm | 2,710 mm | 2,980 mm |
| V | Inner radius | 1,520 mm | 1,520 mm | 1,810 mm |
| W | Articulation angle | 45 ° | 45 ° | 40 ° |
| X | Rollback angle at max. lift height | 42 ° | 65 ° | 57 ° |
| Y | Dumping angle | 43 ° | 42 ° | 37 ° |
| Z | Rollback angle on ground | 51 ° | 56 ° | 50 ° |

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Standard components

Engine

- Yanmar 3 TNV 80 FT, 18.4 kW / 25 hp, stage V

Tires

- 10.0/75 - 15.3 AS ET40

Steering system

- Hydraulically activated articulated pendulum steering, oscillating angle: $\pm 8^\circ$
- Steering cylinder: 1

Operator's cab

- Operator's canopy with ROPS / FOPS tested restraint system, driver's platform can be tilted to the side
- Generous space in all operator's positions
- Ergonomically spacious entry
- Adjustable steering column (tilt and height)

Operator's seat

- Fully damped comfort seat with safety belt, weight, back and height adjustment

Lighting

- LED work lights, 2 front, 1 back on the operator's canopy

Drive system & Axles

- Axle: T94
- Drive: hydrostatic via PTO gear and driveshaft, electronically controlled.
- Driving modes: Auto mode; ECO mode (reduction of engine speed when set speed is reached).
- Speed: 20 km/h
- Driving stages: 2 (7 km/h / 20 km/h), (Optional 30)
- Service brake: Multi-disc brake on front axle acting on rear axle via driveshaft
- Parking brake: Electro-hydraulic multi-disc brake with spring brake in the front axle, acting on rear axle via driveshaft incl. hill-hold function

Loading system

- Loading swing arm: Lifting height 3040 mm
- Quick change device (Weidemann HV/HT - C) hydraulic
- Kinematics: P
- Lifting cylinder: 2
- Tilting cylinder: 1
- Float position for lift and tilt cylinders

Hydraulics

- Mechanically pilot controlled joystick with direction switch
- 3rd Front control circuit via lever with single detent for continuous function

Other

- Cast rear weight

EquipCare (telematics)

- EquipCare 36 months

Options

Operator's cab

- Operator's canopy with ROPS/FOPS-tested fold-down eps
- Cabin, 2 one-piece doors
- Cabin, 2 two-piece doors
- Front and rear windshield incl. wipers front and rear
- Air-conditioning system
- Radio DAB+-ready (aerial, speaker)
- Radio DAB+ complete
- Sun shade

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Operator's seat

- Artificial leather seat; air cushioned
- Artificial leather seat; air cushioned; heated seat
- Fabric seat (standard with cab)
- Fabric seat; air cushioned
- Fabric seat; air cushioned; heated seat

Lighting

- Lighting according to StVZO (width of the lighting outside: 1036 mm)
- LED lighting according to StVZO (width of the lighting outside: 1176 mm)
- Worklights LED Performance (2000 lm) on the overhead guard, 2 front, 2 rear
- Preparation of rotating beacon
- Rotating beacon LED (yellow), The national regulations must be observed!
- Rotating beacon (yellow) with magnetic base, National regulations must be observed!

Approval & Road traffic

- Individual operating permit < 25 km/h
- Individual operating permit > 25 km/h
- License bracket front and rear

Drive system & Axles

- Diesel engine Yanmar 3TNV86 33.3 kW / 45 hp (use from -15°C - +45°C!)
- Diesel engine Yanmar 3TNV86 40.1 kW / 55 hp (use from -15°C - +45°C!)
- Hand throttle
- Engine preheating (cooling water) + hydraulic oil preheating 230 V
- Planetary axle PA940, hydrostatic medium pressure all-wheel drive, 20 km/h (30 km/h), (PTO gear, driveshaft, differential lock 100%)
- PA940 planetary axle, hydrostatic high-pressure all-wheel drive, 20 km/h (30 km/h), (PTO gear, driveshaft, differential lock 100%)
- Thrust limitation
- Driving mode Auto / Eco / Attachments
- Driving mode Auto / Eco / M-Drive
- 30 km/h (speed increase)
- Speed limiter proportional (slow speed increase)

Tires

- 10.0/75-15.3 AS ET80, profile AS, width 1044 mm, height 2320 mm
- 10.0/75-15.3 AS ET-5, profile AS, width 1214 mm, height 2320 mm
- 11.5/80-15.3 AS ET40, profile AS, width 1150 mm, width turned 1340 mm, height 2363,5 mm
- 31x15.50-15 AS ET0, profile AS, width 1310 mm, height 2315 mm
- 31x15.50-15 AS ET-37, profile AS, width 1394 mm, height 2330 mm
- 31x15.50-15 AS ET0 Starco, profile AS, width 1320 mm, height 2320 mm
- 31x15.50-15 AS ET-37 Starco, profile AS, width 1394 mm, height 2320 mm
- 15.0/55-17 AS ET0, profile AS, width 1310 mm, height 2375 mm
- 15.0/55-17 AS ET-40, profile AS, width 1400 mm, height 2375 mm
- 425/55 R 17 AS ET-40 Alliance 570, profile AS, width 1445 mm, height 2375 mm
- twin tires 11.5/80-15.3 AS front, profile AS, width 1780 mm, height 2363,5 mm
- 31x15.50-15 EM ET0, profile EM, width 1340 mm, height 2325 mm
- 31x15.50-15 EM ET-37, profile EM, width 1414 mm, height 2325 mm
- 12-16.5 EM ET45, profile EM, width 1155 mm, width turned 1350 mm, height 2340,5 mm
- 425/40 B17 ET0 PR14 Delcora GSP+, profile EM, width 1365 mm, height 9,0 mm
- 31x15.5-15 BKT TracMaster ET 0, profile RP, width 1345, height 2335 mm
- 31x15.5-15 BKT TracMaster ET-37, profile RP, width 1418 mm, height 2335 mm
- 33x15.5-15 BKT TracMaster ET-37, profile RP, width 1424 mm, height 2362,5 mm
- 10-16.5 Sure Trax ET40 BKT, profile SureTrax, width 1128 mm, width turned 1300 mm, height 2322,5 mm
- 12-16.5 Sure Trax ET45 BKT, profile SureTrax, width 1175 mm, width turned 1370 mm, height 2357,5 mm
- 305/70 R16.5 ET0 Multiuse 550, profile Multiuse, width 1244 mm, height 2346 mm
- 315/55R16 Conti MPT81 ET-30, profile MPT81, width 1302mm, height 2305 mm
- Tires turned

Loading system

- P-kinematics lifting height (3200 mm)
- PZ-kinematics lifting height (3200 mm)

Quick change plates

- Weidemann HV/HT – C – ECS (hydraulic – easy coupler system)
- Euro (hydraulic – ISO23206 EURO HV), (incl. two couplings SVK size 3)
- SkidSteer (hydraulic – SAEJ2513 SSL HV)
- SMS HV (hydraulic)

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- Kramer HV/WL – C (hydraulic)
- Lowering brake valve (hose burst protection for lifting and tipping cylinders) incl. floating position
- Load arm dampening
- Bucket level indicator

Hydraulics

- Shell PANOLIN S4 HLP Synth 46 (bio hydraulic oil)

Hydraulics in front

- 3rd Control circuit proportional (operation: Via control wheel at front of joystick), incl. continuous function via switch, pressure relief 3rd Control circuit at the front of the loading system, oil quantity adjustment
- 4th Control circuit proportional serial, incl. continuous function via switch, pressure relief 4th Control circuit at the front of the loading system, operation: Via control wheel on top of joystick
- Working hydraulics (58.5 l/min) Large pump
- High flow - power hydraulics single-acting (84 l/min.), (two couplings 1 x Flatface size 4A, plug / 1x Flatface size 4A, socket), Operation: Via switch (0 - 1)
- Front pressureless return (1 x Flatface size 3, plug) incl. leakage oil line (1 x Flatface size 2, plug)
- Quick coupling Faster 2-fold - machine side
- Quick coupling Faster 2-fold - machine side + attachment side
- Quick coupling Faster 2x 2-fold - machine side
- Quick coupling Faster 2x 2-fold - machine side + attachment side

Hydraulics in rear

- One rear hydraulic connection double-acting via change-over valve (two couplings SVK size 3), (3rd control circuit at the front or rear Via switch (0 - 1) + 3rd control circuit
- Two hydraulic connections rear double-acting (four couplings SVK size 3) incl. separate control valve (25 l/min.), operation: Via 2 switches (1 - 0 - 2)
- Pressureless return at the rear (1 x SVK size 3, plug) incl. leakage oil line (1 x Flatface size 2, plug)

Electrical system

- Additional control unit
- Battery disconnect switch 2 circuits (disconnection of the on-board power supply and the generator via 2 switching paths from the battery)

Electrical connections in front

- Front 13-pin socket (2x electric functions E1/ E2 and lighting), (Operation: via 2 buttons on the joystick; 1st momentary, 2nd latching)
- Front 13-pin socket (2x electric functions E1/ E2 and lighting), (Operation: via 2 buttons on the joystick; 1st latching, 2nd momentary)
- Front 13-pin socket (2x electric functions E1/ E2 and lighting), (Operation: via 2 buttons on the joystick; 1st momentary, 2nd momentary)
- Front 13-pin socket (2x electric functions E1/ E2 and lighting), (Operation: via 2 buttons on the joystick; 1st latching, 2nd latching)

Electrical connections in rear

- Rear 3-pin socket (2x electric functions E3/ E4, switchable to front socket), (Operation: via switch; 1st latching, 2nd latching)
- Rear 7-pin socket for lighting rear attachments

Safety options

- Reversing warning device (acoustic)
- Immobilizer KAT (Operation: Via coded ignition key)

Custom-made paint finish

- Special painting RAL single color - instead of Weidemann red
- Special painting RAL multicolored

Other

- Floor plate ballast weight ({100 kg}{220.5 lb})
- Floor plate ballast weight ({180 kg}{396.8 lb})
- Toolbox, including tool set and hand lever grease press
- Combination box (for combination bag)
- Combination bag (warning triangle / first aid kit)
- Fully automatic central lubrication unit

Warranty extension

- Economy 24 months (2500 h)
- Economy 36 months (3000 h)
- Economy 48 months (3500 h)
- Economy 60 months (4000 h)
- Premium 24 months (3000 h)
- Premium 36 months (4000 h)
- Premium 48 months (5000 h)
- Premium 60 months (6000 h)

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Trailer and recovery equipment

- Trailer hitch ball head K50
- Trailer hitch automatic

Self-propelled work machines with ball hitch

- Trailer hitch automatic