

# 1380 Hoftrac



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## 1380 Technical specifications

### Engine data Standard

Manufacturer	Perkins
Engine type	404 D-22 de
Cylinders	4
Engine performance (max.)	31.4 (43) kW (hp)
at rpm (max.)	2,600 rpm
Cubic capacity	2,216 cm <sup>3</sup>
Cooling system	Water
Abgasnormstufe	III A
Abgasnachbehandlung	nein

### Engine data Option

Manufacturer	Perkins
Engine type	404 D-22
Engine performance (max.)	35.7 (49) kW (hp)
at rpm (max.)	2,600 rpm
Cubic capacity	2,216 cm <sup>3</sup>
Cooling system	Water
<b>Electrical system</b>	
Operating voltage	12 V
Battery	77 Ah
Alternator	65 A
<b>Weights</b>	
Operating weight (standard)	2740-2950 kg
Tipping load with bucket - machine straight	1876-2071 kg
Tipping load with bucket - machine articulated	1495-1653 kg
Tipping load with pallet fork - machine straight	1557-1722 kg
Tipping load with pallet fork - machine articulated	1239-1368 kg
<b>Vehicle data</b>	
Axle (optional)	T94 (T110, PA940)
Cab (optional)	FSD (eps, cabin)
Ground speed (optional)	0 - 20 (28) km/h
Speed stages	2
Fuel tank capacity (optional)	50 l
Hydraulic oil tank capacity	30 l
<b>Hydraulic system</b>	
External services - Operating pressure (optional)	390 (450) bar
Steering hydraulics - Oil flow	49.4 (58.5) l/min
Steering hydraulics - Operating pressure	210 bar
<b>Drive</b>	
Type of drive	Hydrostatic
Traction drive	Universal joint shaft
<b>Noise values</b>	
Average sound power level L <sub>WA</sub>	99.8 dB(A)
Guaranteed sound power level L <sub>WA</sub>	101 dB(A)
Specified sound pressure level L <sub>pA</sub>	82 dB(A)

Tipping load calculation according to ISO 14397 (horizontal mast)

FSD = operator's canopy

eps = Easy Protection System (fold-down operator's canopy)

Vibrations (weighted average effective value)

**Hand-arm vibrations:** The hand-arm vibrations are no more than 2.5 m/s<sup>2</sup>

**Whole-body vibrations:** This machine is equipped with an operator's seat that meets the requirements of EN ISO 7096:2000.

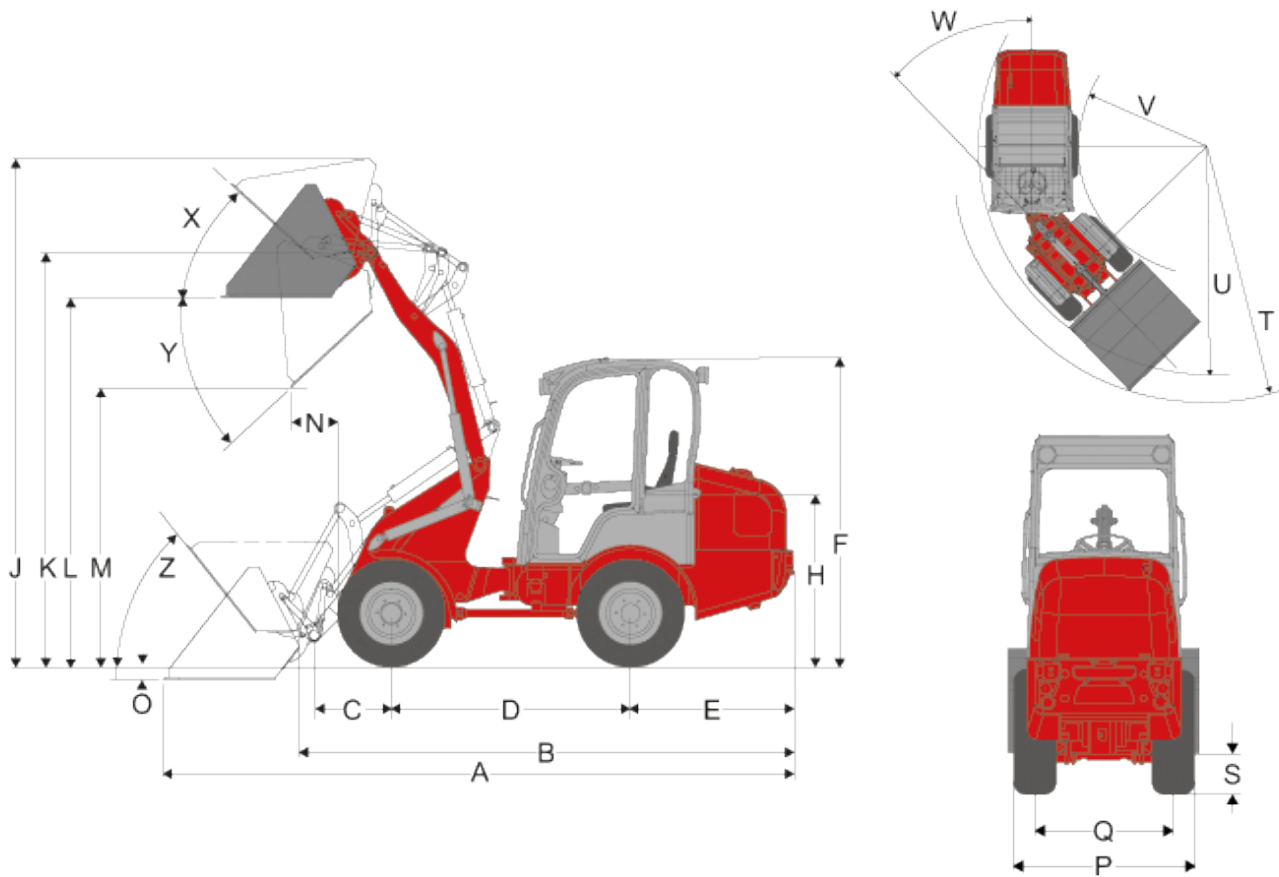
When the loader is properly used, the whole body vibrations vary from below 0.5 m/s<sup>2</sup> up to a short-term maximum value.

It is recommended to use the values specified in the table when calculating the vibration values according to ISO/TR 25398:2006. At the same time, the actual use conditions have to be taken into consideration.

Telehandlers, like wheel loaders, are to be classified by operating weight.

Type of loader	Typical operating conditions	Mean value			Standard deviation (s)		
		1.4*a <sub>w,eqx</sub>	1.4*a <sub>w,eqy</sub>	a <sub>w,eqz</sub>	1.4*s <sub>x</sub>	1.4*s <sub>y</sub>	s <sub>z</sub>
		[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]
Compact wheel loader (operating weight < 4,500 kg)	Load&&carry (load and transport work)	0.94	0.86	0.65	0.27	0.29	0.13
Wheel loader (operating weight > 4,500 kg)	Load&&carry (load and transport work)	0.84	0.81	0.52	0.23	0.2	0.14
	Application in extraction (harsh application conditions)	1.27	0.97	0.81	0.47	0.31	0.47
	Delivery drive	0.76	0.91	0.49	0.33	0.35	0.17
	V-operation	0.99	0.84	0.54	0.29	0.32	0.14

1380 Dimensions



		1380 P-kinematics	1380 PZ-kinematics
A	Total length	4,420 mm	4,581 mm
B	Total length (without bucket)	3,520 mm	3,700 mm
C	Axle middle to bucket pivot pin	560 mm	720 mm
D	Wheelbase	1,732 mm	1,732 mm
E	Rear overhang	1,182 mm	1,182 mm
F	Height to top of overhead guard fixed	2,260 mm	2,260 mm
	Height to top of overhead guard foldable (eps)	2,370 mm	2,370 mm
	Height to top of overhead guard foldable, folded (eps)	1,850 mm	1,850 mm
	Height to top of cabin	2,280 mm	2,280 mm
H	Seat top height	1,280 mm	1,280 mm
J	Total working height	3,659 mm	3,830 mm
K	Height of bucket pivot (max.)	3,010 mm	3,203 mm
L	Load-over height	2,690 mm	2,880 mm
M	Dumping height	2,130 mm	2,380 mm
N	Operating distance for M	250 mm	410 mm
O	Digging depth	83 mm	130 mm

P	Total width	1,040 mm	1,040 mm
Q	Track width	780 mm	780 mm
S	Ground clearance	250 mm	250 mm
T	Maximum radius external	3,040 mm	3,120 mm
U	Radius at the outer edge	2,792 mm	2,792 mm
V	Inside turning radius	1,610 mm	1,610 mm
W	Inclination angle	48 °	48 °
X	Rollback angle at max. lifting height	43 °	57 °
Y	Dumping angle (max.)	42 °	37 °
Z	Rollback angle (on the ground)	51 °	50 °

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## 1380 Standard components

### Engine

- Perkins 404 D-22 de (31.4 kW / 43 hp)

### Loader unit

- P-kinematics (lift height 3010 mm)

### Drive system

- Axle T94, hydrostatic medium-pressure 4 wheel drive
- Hydrostatic 4 wheel drive, travel direction can be selected via joystick
- Service brake: Hydrostatic drive system acting on all 4 wheels (wear-free)
- Central service and parking brake in the drive train acting on all 4 wheels
- Tyres 10.0/75–15.3 AS ET80

### Steering system

- Hydraulic articulated pendulum steering, 12° oscillating angle

### Hydraulics

- 3rd control circuit front DN12
- Hydraulic oil cooler
- Lock for control valve
- Floating position for lift and tipping cylinders

### Operator's cab

- Operator's canopy with retaining system roll-over protective structure / FOPS-tested, including rear window, laterally tiltable operator's cab
- Comfort seat with safety belt, fully suspended, weight, back and horizontal adjustment
- Joystick with direction control switch and integrated touch button for differential lock
- Adjustable steering column

### Other

- Work lights (2 front, 2 rear)
- Operating hour meter
- Battery isolator switch
- Fuel display
- Mechanical quickhitch system for attachments

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## 1380 Options

### Engine

- Perkins 404 D-22 (35.7 kW / 49 hp)
- Engine pre-heater (coolant), hydraulic oil pre-heater 230 V

### Loader unit

- P-kinematics (high lift height 3200 mm)
- PZ-kinematics (lift height 3203 mm)

### Operator's cab

- Roof lining for operator's canopy
- Front window complete with wiper
- eps (Easy Protection System): fold-down operator's canopy
- 2-door cabin, including heater and ventilation
- Cabin plug receptacle 230 V
- Right armrest
- Air-cushioned comfort seat (artificial leather / fabric)
- Heated seat
- Radio

### Lighting

- Additional work lights on load arm
- Lighting according to Road Traffic Regulations
- MEGA work lights (2 front, 2 rear)
- LED work lights (2 front, 2 rear)
- Rotating beacon

### Drive system / Axles

- Axle T94, hydrostatic medium-pressure 4 wheel drive
- Axle T94, hydrostatic high-pressure 4 wheel drive
- Axle T110, hydrostatic high-pressure 4 wheel drive
- Axle PA940, planetary axle, hydrostatic high-pressure 4 wheel drive
- Differential lock 100%
- Chassis elevation (30 mm)
- Speed increase to 28 km/h
- Hand inching (creep speed controller)

### Hydraulics

- Unpressurised reverse travel (front / rear)
- Work hydraulics of large pump (58.5 l/min)
- 3rd control circuit, including single latch on lever for 3rd control circuit
- 3rd comfort control circuit, including single latch on lever for 3rd control circuit
- 4th comfort control circuit, including single latch on lever for 3rd control circuit
- 4th additional control circuit, including separate control valve (operation: via separate lever)
- 4th additional control circuit, including separate control valve (operation: Via switch (1 - 0 - 2) in steering column)
- 4th control circuit (40 l/min) additionally via separate gear pump, including separate control valve
- 4th control circuit additionally via 4-way valve

- Notch for joystick, single
- Additional, rear dual-acting hydraulic connection, including separate control valve (operation: Via lever)
- Additional, rear dual-acting hydraulic connection, including separate control valve (operation: via switch)
- Also single-acting, rear hydraulic connection
- Also a dual-acting, rear hydraulic connection (operation: via lever for 3rd control circuit).
- Three-point rear receptacle, category I

#### Electrical connections

- Plug receptacle in front, triple-pole (single or dual function)
- Plug receptacle for rear attachments, 7-pin

#### Other

- Hydraulic quickhitch system for attachments
- Counterweight (floor plate 97 kg)
- Cast iron rear weight (138 kg)
- Reversing alarm
- Load-lowering valve
- Combination case with warning triangle and first-aid kit
- Switch position indicator
- Tool box
- TÜV expert's report for road travel (addendum in vehicle documentation)
- Fully automatic central lubrication unit
- Custommade paint finish
- Hand lever grease gun
- Lifting arm damping
- Self-recovery coupling
- Automatic trailer coupling
- Approval as self-propelled work machine with ball hitch
- Official approval for road use

Please note: that product availability can vary from country to country. It is possible that information / products may not be available in your country. More detailed information on engine power can be found in the operator's manual; the stated power may vary due to specific operating conditions. Subject to alterations and errors excepted. Applicable also to illustrations.  
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