

**4080**

Wheel loader

**Technical specifications**

Engine data

Manufacturer	Perkins
Engine type	854E-E34TAWF
Cylinders	4
Engine performance (max.) / optional	75 / 86 (102 / 117) kW (hp)
at rpm (max.)	2,5 rpm
Cubic capacity	3,4 cm ³
Cooling system	Water / charge air



Engine data

Manufacturer	Perkins
Engine type	854E-E34TAWF
Cylinders	4
Engine performance (max.)	86 (117*) kW (hp)
at rpm (max.)	2,5 rpm
Cubic capacity	3,4 cm ³
Cooling system	Wasser / Ladeluft

Electrical system

Operating voltage	12 V
Battery	95 Ah
Alternator	120 A

Weights

Operating weight (standard)	5,9 kg
Lift force (max.)	5.954 daN
Tipping load with bucket - machine straight	3,579 kg
Tipping load with bucket - machine articulated	2,999 kg
Tipping load with pallet fork - machine straight	3,31 kg
Tipping load with pallet fork - machine articulated	2,79 kg

Vehicle data

Axle	PA 1,422
Cab	Cab
Ground speed (optional)	0- 20 (30*) km/h
Speed stages	2
Fuel tank capacity	105 l
Hydraulic oil tank capacity	95 l



Hydraulic system

External services - Operating pressure	445 bar
Steering hydraulics - Oil flow (optional)	100 (150*) l/min
Steering hydraulics - Operating pressure	210 bar

Drive

Type of drive	Hydrostatic
Traction drive	Universal joint shaft

Noise values

Average sound power level L _{WA}	101 dB(A)
Guaranteed sound power level L _{WA}	103 dB(A)
Specified sound pressure level L _{pA}	78 dB(A)

Tipping load calculation according to ISO 14397

Vibrations (weighted average effective value)

Hand-arm vibrations: The hand-arm vibrations are no more than 2.5 m/s²

Whole body vibrations: This machine is equipped with a driver'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/s² 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.

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

Type of loader	Typical operating conditions	Average value			Standard deviation (s)		
		1.4*a _{w,eqx}	1.4*a _{w,eqy}	a _{w,eqz}	1.4*s _x	1.4*s _y	s _z
		[m/s ²]	[m/s ²]	[m/s ²]	[m/s ²]	[m/s ²]	[m/s ²]
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



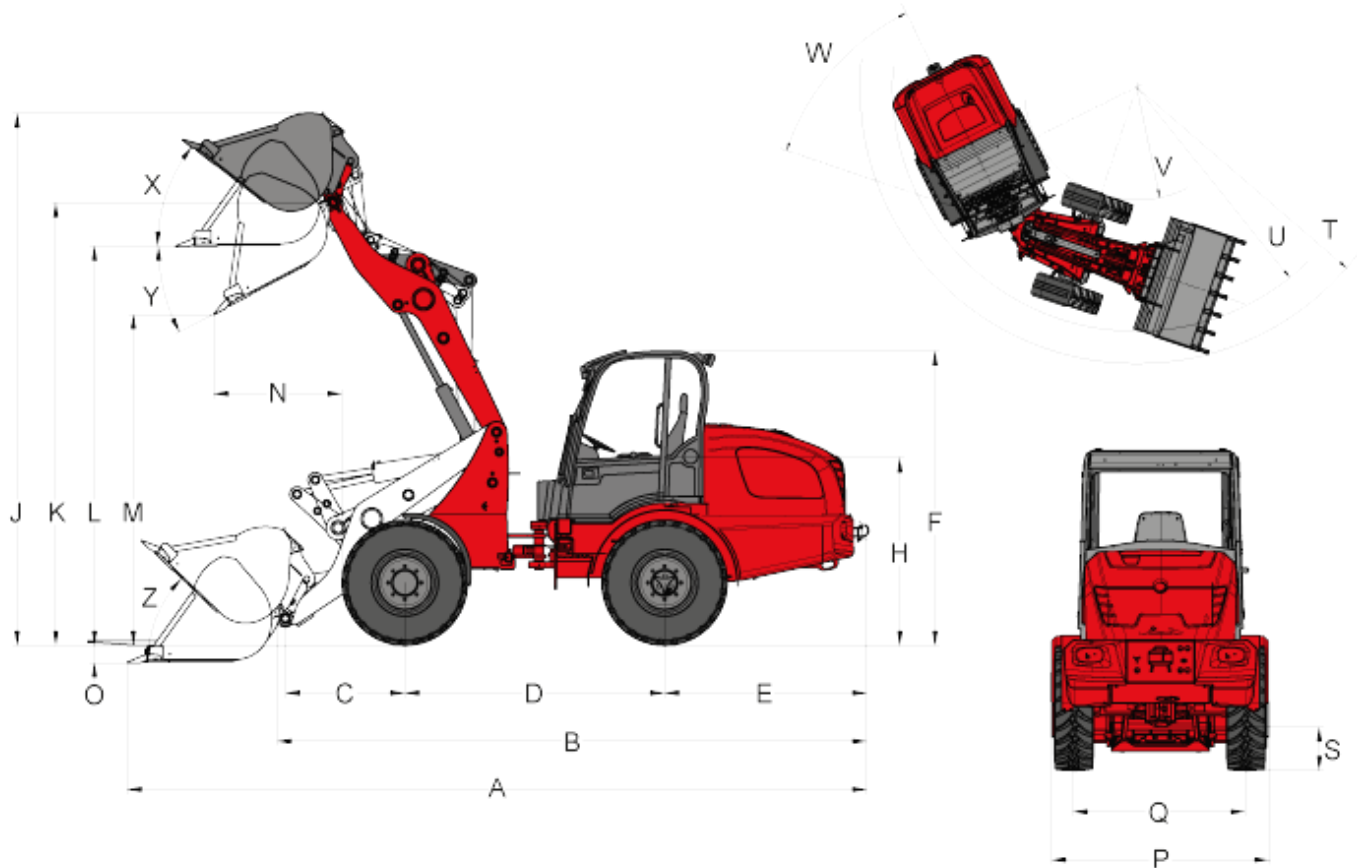
Wheel loader (operating weight > 4,500 kg)	Load & carry (load and transport work)	0.84	0.81	0.52	0.23	0.2	0.14
	Application in extraction (harsh application conditions)	1.27	0.97	0.81	0.47	0.31	0.47
	Transfer drive	0.76	0.91	0.49	0.33	0.35	0.17
	V-operation	0.99	0.84	0.54	0.29	0.32	0.14



4080

Wheel loader

Dimensions



Standard tyres 12.5 - 20 MPT ET0

A	Total length	6.127 mm
B	Total length (without bucket)	4.886 mm
C	Axle middle to bucket pivot pin	990 mm
D	Wheelbase	2.151 mm
E	Rear overhang	1.676 mm
F	Height to top of cabin	2.679 mm
H	Seat top height	1.607 mm
J	Total working height	4.413 mm



K	Height of bucket pivot (max.)	3.671 mm
L	Load-over height	3.310 mm
M	Dumping height	2.743 mm
N	Operating distance for M	1.064 mm
O	Digging depth	143 mm
P	Total width	1.810 mm
Q	Track width	1.422 mm
S	Ground clearance	360 mm
T	Maximum radius external	4.172 mm
U	Radius at the outer edge	3.683 mm
V	Inside turning radius	1.702 mm
W	Inclination angle	45 °
X	Rollback angle at max. lifting height	38 °
Y	Dumping angle (max.) (max.)	28 °
Z	Rollback angle (on the ground)	44 °

**4080**

Wheel loader

Standard features**Engine**

- Perkins 845E-E34TAWF (75 kW / 102 hp)

Drive

- PA1422 planetary axle
- Hydrostatic all-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
- 100% differential lock, electric-hydraulically connectable on front and rear axle
- Tyres 12.5 - 20 MPT ET0

Steering

- Hydraulic articulated pendulum steering, 12° oscillating angle

Hydraulics

- 3rd control circuit front, proportionally via joystick
- Hydraulic oil cooler
- Floating position for lift cylinder

Driver's cab

- Comfort cabin with heating and ventilation, ROPS / FOPS tested
- Laterally tiltable driver's cabin
- Comfort seat with safety belt, fully suspended, weight, back and horizontal adjustment
- Hydraulic pilot operated joystick with direction control switch and integrated touch button for differential lock
- Adjustable steering wheel

Kinematics

- Z-kinematics

Other

- Working lights (2 front, 2 rear)
- Lighting equipment according to Road Traffic Regulations
- Operating hour meter
- Battery circuit breaker
- Fuel display
- Hydraulic quick-change system for attachments

**4080**

Wheel loader

Options**Engine**

- Perkins 845E-E34TAWF (86 kW / 117 hp)
- Engine pre-heating

Driver's cab

- Air conditioning
- Air-suspended comfort seat
- Heated seat
- Radio

Lighting

- LED working lights (2 front, 2 rear)
- MEGA working lights (2 front, 2 rear)
- Rotary beacon

Drive

- Speed increase to 30 km/h
- Hand inching (creep speed controller)

Hydraulics

- Unpressurised reflux (front or rear)
- 3rd control circuit, electrically, proportionally, serial
- 3rd control circuit Flow Sharing
- 4th control circuit additional
- 4th control circuit Flow Sharing
- Additional hydraulic oil cooler
- Hydraulic connection in rear (dual acting)
- 2 hydraulic connections in rear, including separate steering valve

Electrical connections

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

Other

- Back-up alarm
- Load-lowering valve
- Combination case with warning triangle and first-aid kit
- Tool box
- Fully automatic central lubrication unit
- Custom made paint finish
- Hand lever grease gun
- Load vibration suppression
- TÜ [Technical Control Board] certificate for driving on public roads

**Please note**

that product availability can vary from country to country. It is possible that information / products may not be available in your country. Photos may depict options. Subject to change without notice. Errors and omissions are reserved. The contractual agreement is expressly decisive. 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.

Copyright © 2016 Weidemann GmbH.