

**2070LP**

Wheel loader

**Technical specifications**

|                                   | <b>2070 CX50 LP</b> | <b>2070 CX80 LP</b> |
|-----------------------------------|---------------------|---------------------|
| <b>Engine data</b>                |                     |                     |
| Manufacturer                      | Perkins             | Deutz               |
| Engine type                       | 404 D-22            | TD2011 L04w         |
| Cylinders                         | 4                   | 4                   |
| Engine performance (max.) kW (hp) | 35.7 ( 49 )         | 55.1 ( 75 )         |
| at rpm (max.) rpm                 | 2,600               | 2,300               |
| Cubic capacity cm <sup>3</sup>    | 2,216               | 3,619               |
| Cooling system                    | Water               | Water               |
| <b>Engine data</b>                |                     |                     |
| <b>Engine data</b>                |                     |                     |
| <b>Electrical system</b>          |                     |                     |



|  | <b>2070 CX50 LP</b> | <b>2070 CX80 LP</b> |
|--|---------------------|---------------------|
| Operating voltage V                                    | 12                  | 12                  |
| Battery Ah   | 95                  | 95                  |
| Alternator A   | 65                  | 95                  |
| <b>Weights</b>   |                     |                     |
| Operating weight (standard) kg                         | 3,270               | 3,360               |
| Lift force (max.) daN                                  | 3,706               | 3,706               |
| Tipping load with bucket - machine straight kg         | 2,300               | 2,413               |
| Tipping load with bucket - machine articulated kg      | 1,879               | 1,975               |
| Tipping load with pallet fork - machine straight kg    | 2,058               | 2,159               |
| Tipping load with pallet fork - machine articulated kg | 1,700               | 1,776               |
| <b>Vehicle data</b>                                    |                     |                     |
| Axle   | PA 1,200            | PA 1,200            |
| Cab (optional)   | FSD (cab)           | FSD (cab)           |
| Ground speed (optional) km/h                           | 0 - 20 (28*)        | 0 - 20 (28*)        |
| Speed stages   | 2                   | 2                   |
| Fuel tank capacity l                                   | 55                  | 55                  |
| Hydraulic oil tank capacity l                          | 65                  | 65                  |
| <b>Hydraulic system</b>                                |                     |                     |
| External services - Operating pressure bar             | 450                 | 445                 |
| Steering hydraulics - Oil flow l/min                   | 49.4                | 51.75               |
| Steering hydraulics - Operating pressure bar           | 210                 | 210                 |
| <b>Drive</b>   |                     |                     |

Tipping load calculation according to ISO 14397

FSD = 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 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/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.

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

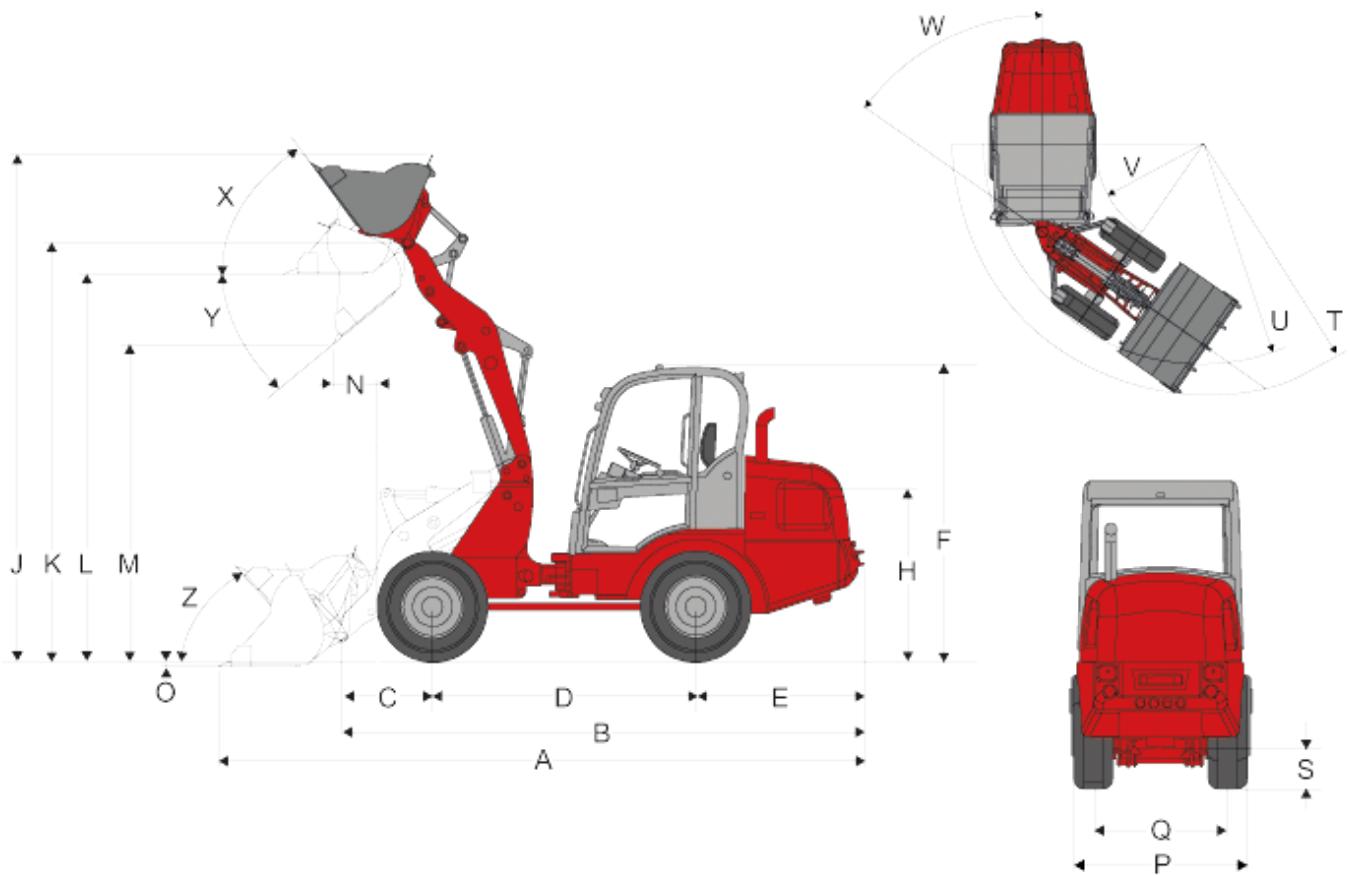
| Type of loader   | Typical operating conditions                             | Average value                                |  |                                    | Standard deviation (s)                 |  |                              |
|--|--|--|--|------------------------------------|--|--|------------------------------|
|  |  | $1.4 \cdot a_{w,eqx}$<br>[m/s <sup>2</sup> ] | $1.4 \cdot a_{w,eqy}$<br>[m/s <sup>2</sup> ] | $a_{w,eqz}$<br>[m/s <sup>2</sup> ] | $1.4 \cdot s_x$<br>[m/s <sup>2</sup> ] | $1.4 \cdot s_y$<br>[m/s <sup>2</sup> ] | $s_z$<br>[m/s <sup>2</sup> ] |
| Compact wheel loader<br>(operating weight<br>< 4,500 kg) | Load & carry (load and transport work)                   | 0.94   | 0.86   | 0.65                               | 0.27                                   | 0.29                                   | 0.13                         |
| Wheel loader<br>(operating weight<br>> 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                         |



2070LP

Wheel loader

Dimensions



Standard lightweight bucket 11.5 / 80 - 15.3 AS ET40

|   |  |          |
|---|--|----------|
| A | Total length                                   | 4,930 mm |
| B | Total length (without bucket)                  | 4,140 mm |
| C | Axle middle to bucket pivot pin                | 701 mm   |
| D | Wheelbase                                      | 2,050 mm |
| E | Rear overhang                                  | 1,310 mm |
| F | Height to top of overhead guard - low-profile  | 2,160 mm |
|   | Height to top of overhead guard - high-profile | 2,320 mm |
|   | Height to top of cabin - low-profile           | 2,160 mm |



|   |                                       |          |
|---|---------------------------------------|----------|
|   | Height to top of cabin - high-profile | 2,370 mm |
| H | Seat top height                       | 1,290 mm |
| J | Total working height                  | 3,900 mm |
| K | Height of bucket pivot (max.)         | 3,240 mm |
| L | Load-over height                      | 2,930 mm |
| M | Dumping height                        | 2,390 mm |
| N | Operating distance for M              | 180 mm   |
| O | Digging depth                         | 90 mm    |
| P | Total width                           | 1,410 mm |
| Q | Track width                           | 1,132 mm |
| S | Ground clearance                      | 297 mm   |
| T | Maximum radius external               | 3,689 mm |
| U | Radius at the outer edge              | 3,271 mm |
| V | Inside turning radius                 | 1,827 mm |
| W | Inclination angle                     | 44 °     |
| X | Rollback angle at max. lifting height | 49 °     |
| Y | Dumping angle (max.) (max.)           | 44 °     |
| Z | Rollback angle (on the ground)        | 44 °     |

All values with a standard bucket and standard tyres



## **2070LP**

Wheel loader

### **Standard features**

#### **Engine**

- Perkins 404 D-22 (35.7 kW / 49 hp)

#### **Drive**

- PA1200 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 11.5 / 80 - 15.3 AS ET40

#### **Steering**

- Hydraulic articulated pendulum steering, 12° oscillating angle

#### **Hydraulics**

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

#### **Driver's cab**

- "Low" canopy (height 2,133 mm) or "tall" (height 2,248 mm) with front and rear window, ROPS / FOPS tested
- 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



**Kinematics**

- P-Z kinematics

**Other**

- Working lights (2 front, 2 rear)
- Operating hour meter
- Battery circuit breaker
- Fuel display
- Hydraulic quick-change system for attachments



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### **Options**

#### **Engine**

- Deutz TD2011 L04w (55.1 kW / 75 hp)
- Engine pre-heating

#### **Driver's cab**

- "Low" 2-door cabin, including heating and ventilation (height 2,133 mm)
- "Tall" 2-door cabin, including heating and ventilation (height 2,335mm)
- Air-suspended comfort seat
- Radio

#### **Lighting**

- Lighting according to Road Traffic Regulations
- Rotary beacon

#### **Drive**

- Chassis increase (30 mm)
- Speed increase to 28 km/h

#### **Hydraulics**

- Unpressurised reflux (front / rear)
- 3rd comfort control circuit
- 4th comfort control circuit
- 4th control circuit additional
- Gear pump (58.5 l/min)
- Faster plug-in connector (machine or attachment side)
- Notch for joystick (single)
- Hydraulic connection in rear (single acting)





#### **Electrical connections**

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

#### **Other**

- Counterweight
- Back-up alarm
- Load-lowering valve
- Combination case with warning triangle and first-aid kit
- Tool box
- Technical Inspection Authority expert's report
- Fully automatic central lubrication unit
- Custom made paint finish
- Hand lever grease gun
- Load vibration suppression

#### **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.

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