

# Technical Data Sheet

All data is valid for standard specification loader with standard bucket.

# 480



## Engine

Make	Deutz F4M 2011
Type/design	Oil-cooled, 4-cylinder, 4-stroke, in-line aspirated engine with direct fuel injection
Output	48,5 kW/66 HP @ 2800 rpm 44 kW/60 HP @ 2400 rpm
Max. torque	195 Nm/1700 rpm
Displacement	3110cm <sup>3</sup>
Emission	Tested and certified as per 97/68 EG, emissions standard level 2.



## Power Transmission

Drive	Continuously variable hydrostatic axial-piston gearbox. 4-wheel drive. Brake/inching pedal.
Drive speed	0–20 kph, 0–40 kph optional
Axes	Planetary steering axles
Total oscillation angle	18°
Differential lock	Self-locking differentials
Service brake	Hydraulic multidisc
Parking brake	Mechanical disc brake
Standard tyres	12,5 – 20
Wide-base tyres	365/70 R18 (bidirectional)
Optional tyres	375/70 R20 (traction tyres)



## Steering and Work Hydraulics.

Mode of function	Hydrostatic all wheel steering
Steering pump	Work pump via priority valve
Steering ram	Double-acting, with automatic synchronisation in final positions
Steering angle	2x40°
Work pump	Gear pump
Flow rate	75 l/min standard
Pressure	210 bar
Filter	Combined suction reflux filter
Pressure limitation	Primary pressure limitation, secondary pressure in tilt ram/lift ram



## Kinematics.

Design	Parallel kinematics
Lifting capacity	40 kN
Tear out force	35 kN
Raise	5,5 sec
Lower	3,7 sec
Tilt in	1 sec
Dump out	1,5 sec
tilt in / tilt out angle	50°/45°
Tipping load (stand. bucket)	3400 kg
Tipping load (pallets)	2750 kg
Payload S=1.25 (pallets)	2100 kg
Payload S=1.67 (pallets)	1570 kg
Payload in transport position S=1.25 (pallets)	2550 kg
Scraping depth	60 mm



## Capacities

Fuel tank	80l
Hydraulic oil tank	70l



## Noise emissions

As per 2000/14/EC



## Electric System

Operating voltage	12V
Battery	12V/72 Ah
Alternator	95 A
Starter	2,3kW



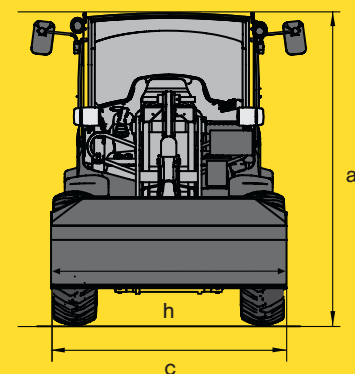
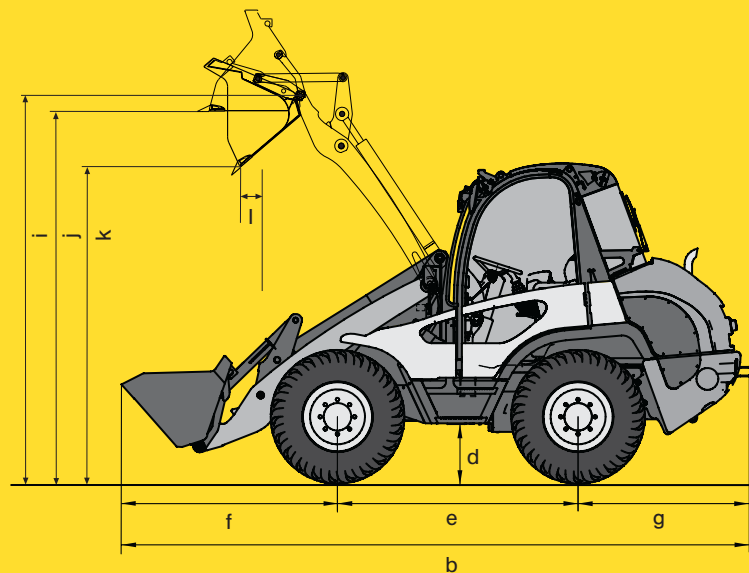
## Operational Data

Bucket capacity from – to 0.85 – 1.4 m<sup>3</sup>

Dimensions (with standard bucket and standard tyres)

a	Height	2510 mm
b	Length	5080 mm
c	Width	1850 mm
d	Ground clearance	330 mm
e	Wheelbase	1920 mm
f	Centre of front axle to tip of teeth	1800 mm
g	Centre of rear axle to end of vehicle	1360 mm
h	Bucket width	1850 mm
i	Pin height	3250 mm
j	Load-over height	3100 mm
k	Dump height	2500 mm
l	Dump reach	700 mm
	Pallet height	3000 mm
	Turning radius	
	Tyres	2550 mm
	Track circle	2430 mm
	Bucket	3450 mm

Weight 4800 kg



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## Standard equipment

### Cab

Soundproofed, vibration-insulated, 4-point suspension cab with large, curved, tinted windows. Excellent all around visibility from a spacious and comfortable work environment for increased safety and efficiency. Extremely roomy cab with a large number of storage possibilities.

#### Access

Entry and exit on either side using the large convenient steps.

#### Doors

Doors with large windows, for optimal view to the sides. Both doors can be opened and locked in two positions (gap or 180°). Full access through right-hand door by folding back the joystick console.

#### Joystick console

Ergonomically integrated controls in driver's seat, including:

- Hydraulically pilot-controlled joystick for raising/lowering and dumping the loader unit in and out, with a toggle switch for selecting the driving direction, and an integrated 3rd control circuit for locking/unlocking the quick hitch facility and for running hydraulic implements.
- Switch for 3rd control circuit, continuous operation

#### Drivers's seat

Comfort seat with scissor-type suspension and automatic seat belt, weight, backrest and horizontal adjustment.

#### Instrument panel

Neatly designed instrument panel

#### Heating, ventilation

3-speed powerful heating and ventilation with recirculated-air mode

#### Sun visor

#### Wipers

Front and rear wipers. Double blade covers 85% of front window glass.

#### Rearview mirrors

Large outside mirrors, foldable to notched positions on either side

#### Floor mat

Floor mat is level with the frame enabling easy cleaning of the cab.

#### Cab lights

#### Mounting/wiring for radio installation

#### 12V socket

#### Removable cab

The 480 is fully functional with the cab removed. The upper cab section can be removed in no time at all.

### Lights

**Headlights** 2 x at the front with low/high beam and parking lights

**Working light** 1 x at the rear left

**Rear lights and brake lights**

**Turn indicators**

**Engine cover** Opens up high

**Quick hitch facility** Hydraulic

**Engine air supply** With air filter safety cartridge

**Key system** One-key system for doors, ignition and engine cover

**Tyres** 12.5-20

## Options

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### Cab

Comfort driver's seat	Air conditioning system
Driver's seat with air suspension	Sun-shield foil
Passenger's seat	Radio
Protective FOPS screen	Rotating beacon
Protective front screen	1 rear working light
Vehicle heater	2 front working lights

### Power options

4th control circuit for front and rear implements  
High-Flow equipment with extra pump output  
Unpressurized front reflux  
Float position  
Load stabiliser  
Electric socket for front implements  
Electric socket for rear implements  
Manual throttle  
Low-speed control  
Fuel preheating  
Engine and hydraulic oil preheating  
Mounting parts for work platform  
Trailer coupling

### Safety

Warning stripes  
Drive interlock  
Tool kit  
Hose burst valve for lift and tilt rams  
Protection for work in aggressive environment  
Backup warning system  
Battery master switch

### Ecospeed

Continuous high speed 0 – 40 kph

### Tyres

Wide-base tyres	Tyre puncture protection kit
Traction tyres	Foam-filled tyres
Tyres for industrial applications	Snow chains

### Paint other than standard

Biodegradable oil  
Panolin HLP Synth46

### Warranty extensions

## Implements

Pallet forks  
Standard bucket  
Multipurpose bucket  
Lightweight material bucket  
Superlightweight material bucket  
High-tilt bucket  
Other implements on request

Side swing bucket  
Heavy duty bucket  
Tree replanter  
Front scarifier  
Material pusher  
Work platform

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