

Technical Data Sheet

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

180



Engine

Make	Yanmar 3TNV88
Type/design	Water-cooled, 3-cylinder, 4-stroke, in-line aspirated engine with direct fuel injection
Output	27/37 kW/HP @ 3000 rpm 23/31 kW/HP @ 2600 rpm
Max. torque	107 Nm/1400 rpm
Displacement	1642 cm ³
Emission	Tested and certified as per 97/68 EC, emissions standard level 3A



Power Transmission

Drive	Continuously variable hydrostatic axial-piston gearbox. 4-wheel drive. Brake/inching pedal.
Drive speed	0–20 kph
Axles	Planetary steering axles
Total oscillation angle	10°
Self-locking differentials	45% lock degree
Service brake	Hydrostatic
Parking brake	Mechanical disc brake
Standard tyres	28x9.00–15
Wide base tyres	10–16.5
Optional tyres	315/55 R16 (lawn tyres)



Steering and Work Hydraulics

Mode of function	Hydrostatic steering
Steering pump	Work pump via priority valve
Steering ram	Double-acting, with automatic synchronisation in final positions
Steering angle	2x 38°
Work pump	Gear pump
Flow rate	20 l/min standard 40 l/min optional
Pressure	240 bar
Filter	Combined suction reflux filter
Pressure limitation	Primary pressure limitation, secondary pressure in tilt ram/lift ram



Kinematics

Design	Z-kinematics with optimised parallel lift
Lifting capacity	19 kN
Tear out force	15.1 kN
Raise	6.7 sec
Lower	5 sec
Tilt in	0.6 sec
Dump out	0.7 sec
Tipping load (stand. bucket)	1200 kg
Tipping load (pallets)	975 kg
Payload S=1.25 (pallets)	780 kg
Payload S=1.67 (pallets)	580 kg
Payload in transport position S=1.25 (pallets)	950 kg
Scraping depth	51 mm



Capacities

Fuel tank	35 l
Hydraulic oil tank	40 l



Noise Emissions

As per 2000/14/EC



Electric System

Operating voltage	12V
Battery	12V/72 Ah
Alternator	55 A
Starter	1.2 kW



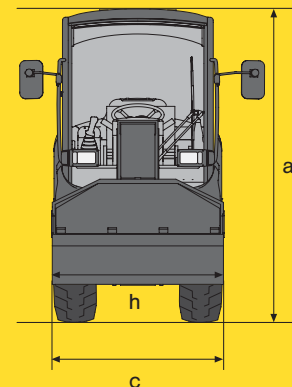
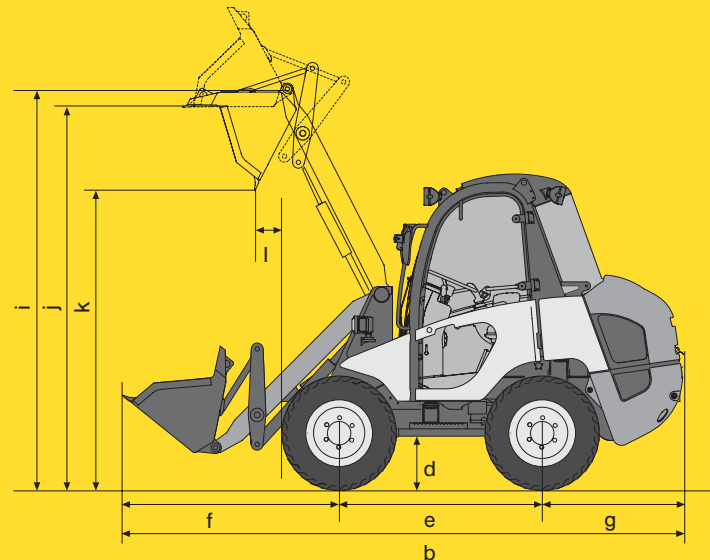
Operational Data

Bucket capacity from – to 0.3–0.4 m³

Dimensions (with standard bucket and standard tyres)

a	Height	2100 mm
b	Length	3810 mm
c	Width	1150 mm
d	Ground clearance	200 mm
e	Wheelbase	1385 mm
f	Centre of front axle to tip of teeth	1470 mm
g	Centre of rear axle to end of vehicle	955 mm
h	Bucket width	1180 mm
i	Pin height	2580 mm
j	Load-over height	2450 mm
k	Dump height	2075 mm
l	Dump reach	600 mm
	Pallet height	2450 mm
	Turning radius	
	Tyres	1940 mm
	Track circle	1790 mm
	Bucket	2710 mm

Weight 1860 kg



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Standard Equipment

Cab

Soundproofed, vibration-insulated, 4-point suspension cab, with large, curved, tinted windows. Excellent all-round visibility from a spacious comfortable work environment for increased safety and efficiency.

Access

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

Doors

Doors with large windows, for optimal view to the sides. Doors and windows can both be opened at the same time. Full access through right hand door by folding back the joystick console.

Windows

Door windows opened and locked in two positions (180° and 10°).

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. Integrated 3rd control circuit for locking/unlocking the quick hitch facility and for running hydraulic implements.
- Switches for Optional Equipment

Driver's Seat

Grammer (MSG 20) mechanical suspension as per ISO 7096 with automatic seat belt, weight adjustment 50–130 kg, 5 position backrest adjustment, length adjustment 210 mm.

Instrument Panel

Neatly designed instrument panel.

Heating, Ventilation

2-speed powerful heating and ventilation

Sun visor

Wipers

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

Rear-View Mirrors

Large outside rear-view mirrors, both foldable

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 180 is fully functional with the cab removed. Cab is removed by slackening 4 bolts.

Eye Hooks

Enable the machine to be lifted into areas of difficult access (ship holds, excavation pits ...).

Lights

Front headlights	2 x at the front, with low and high beam, and parking lights
Working light	1 x at the rear left
Reversing light	
Turn indicators	

Engine cover opens up high.

Quick hitch facility Hydraulic

Engine air supply With air filter safety cartridge

Tyres 28x9.00–15

Options

180

Canopy

Utilises standard cab frame and rear window, but excludes front window and doors.

Protective FOPS screen

Lights

Rotating beacon
2 front working lights

Rear window heating

Hydraulics

4th control circuit for front and rear implements with increased flow rate of 40 l/min
Hose burst on valve lift and tilt rams
Float position

Protection for work in aggressive environment

Special Paint

Tyres

Wide-base tyres 10–16.5
Optional tyres 315/55 R16 (lawn tyres)
Tyre puncture protection kit
Foam-filled tyres
Snow chains for standard tyres

Safety

Warning stripes
Drive interlock

Electric System

Electric socket for front implements
Rear 7-pin trailer socket
Backup warning system
Battery master switch

Preheating

Fuel
Engine
Engine and hydraulic oil

Biodegradable oil

Tool kit

Warranty extension

Implements

Standard bucket
Multipurpose bucket
Pallet forks
Lightweight material bucket
Side swing bucket
Salt sprayer
Snowplough
Skid steer mounting plate
Other implements on request

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