

Technical Data Sheet

All data valid for standard loader with standard bucket

280



Engine

Make	Yanmar 4TNV88
Type/design	Water-cooled, 4-cylinder, 4-stroke, in-line aspirated engine with direct fuel
Output	36/49 kW/HP at 3000 rpm 28/40 kW/HP at 2400 rpm
Max. torque	143 Nm/1600 rpm
Displacement	2190 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
Axes	Planetary steering axles
Total oscillation angle	14°
Self-locking differentials	45% lock degree
Service brake	Hydrostatic
Parking brake	Mechanical disc brake
Standard tyres	12.0–18
Wide base tyres	340/65 R18 (traction tyres)
Optional tyres	10.5–18 (for snow chains) 325/70 R18 (bidirectional) 12.0–16.5 (appr. 30 mm less height)



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	2 x 38°
Work pump	Gear pump
Flow rate	52 l/min standard
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	28.0 kN
Tear out force	27.3 kN
Raise	4.8 sec
Lower	3.7 sec
Tilt in	0.5 sec
Dump out	0.6 sec
Tipping load (stand. bucket)	2340 kg
Tipping load (pallets)	2000 kg
Payload S=1.25 (pallets)	1600 kg
Payload S=1.67 (pallets)	1200 kg
Payload in transport position S=1.25 (pallets)	1900 kg
Scraping depth	49 mm



Capacities

Fuel tank	60 l
Hydraulic oil tank	65 l



Noise emissions

As per 2000/14/EC



Electric System

Operating voltage	12V
Battery	12V/72 Ah
Alternator	55 A
Starter	1.4 kW

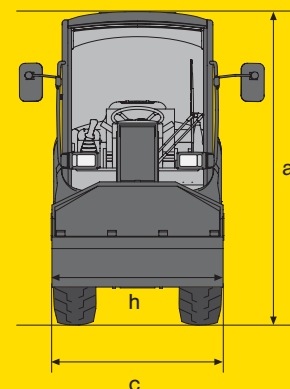
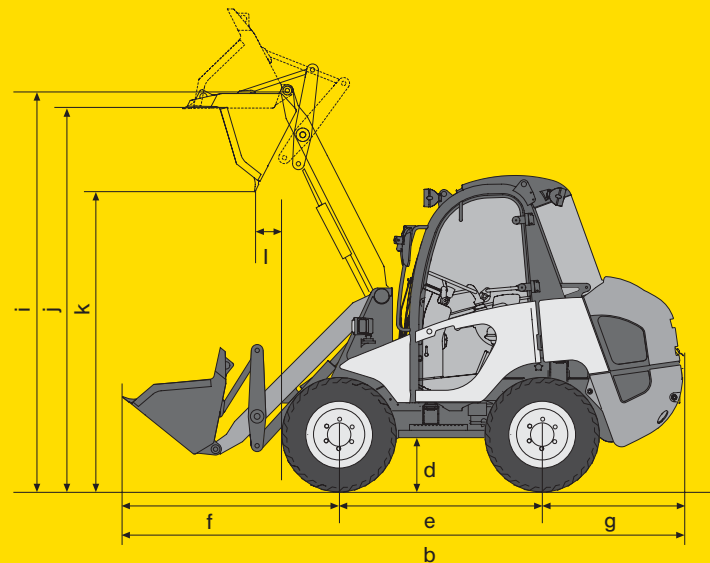


Operational Data

Bucket capacity from – to 0.65–1.1 m³

Dimensions (with standard bucket and standard tyres)

a	Height	2340 mm
b	Length	4610 mm
c	Width	1500 mm
d	Ground clearance	320 mm
e	Wheelbase	1750 mm
f	Centre of front axle to tip of teeth	1620 mm
g	Centre of rear axle to end of vehicle	1240 mm
h	Bucket width	1650 mm
i	Pin height	3020 mm
j	Load-over height	2820 mm
k	Dump height	2300 mm
l	Dump reach	250 mm
	Pallet height	2670 mm
	Turning radius	
	Tyres	2430 mm
	Track circle	2280 mm
	Bucket	3400 mm
	Weight	3200 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 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, with a switch for selecting the driving direction** and 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 – 130kg, 5 position backrest adjustment, length adjustment 210mm.

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

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 12.0 – 18

Options

280

Canopy.

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

Protective FOPS screen

Lights

Rotating beacon
2 front working lights

Rear window heating

Hydraulics

4th control circuit for front and rear implements
Hose burst valve lift and tilt rams
Unpressurized front reflux
Float position
Load stabiliser

Protection for work in aggressive environment

Special Paint

Tyres

Wide-base tyres 340/65 R18 (traction tyres)
12.0 – 16.5 (appr. 30 mm less height)
10.5 – 18 (for snow chains)
325/70 R18 (bidirectional)
Tyre puncture protection kit
Foam-filled 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

Kramer Werke GmbH

Nußdorfer Straße 50
D-88662 Überlingen

Telefon +49 (0) 7551 802-0

Fax +49 (0) 7551 802-260

e-Mail info@kramer.de

www.neusonkramer.com

Neuson Baumaschinen GmbH

Haidfeldstraße 37
A-4060 Linz-Leonding

Telefon +43 (0) 732 90590-0

Fax +43 (0) 732 90590-200

e-Mail office@neuson.com

www.neusonkramer.com

Neuson Ltd.

Crown Business Park
Dukestown, Tredegar

Gwent. NP22 4EF

United Kingdom

Telefon +44 (0) 1495 72 30 83

Fax +44 (0) 1495 71 39 41

e-Mail ukoffice@neuson.com

www.neusonkramer.com

