

# Freewheel

Model Version	Kangoo Z.E. 33
Vehicle Production location	MAUBEUGE France
Motor and drive train features	Synchronous with rotor coil
Maximum Torque (Nm)	225
Maximum Power (kW/hp)	44 kW / 60 hp
Propulsion type	Traction
Maximum Speed (km/h)	81 (130)
0-100km/hr (sec)	22.3

## ACCELERATION PERFORMANCE

Range in temperate conditions (+20°C) (km)	200
Extreme winter conditions (-5°C) with air-con & heat pump (km)	135
Energy recovery unit	Yes
Remaining Range indicator	Yes, on dashboard
Alerts	Sound when 1/8 energy remained, sound when 1/16 energy remained, (+ when the battery energy reaches 5% the engine power limits to 15kW)
Economy mode feature	Yes
Front disc brakes (mm) (diameter/thickness)	280/24
Rear disc brakes (mm) (diameter/thickness)	274/11

## BATTERY

Battery type	Lithium-Nickel-Manganese-Cobalt (LiMnNiCoO)
Battery weight (kg)	260kg
Capacity (kWh)	33
From 0 to 100%	6 hours
Standard charge plug type	Plug and vehicle side: IEC 62196 Type2 Mennekes
Charging Mode (IEC 62196)	Mode 3
Charging plug lock feature	Yes
Electricity consumption (Wh/km)	159

## EXTERIOR DIMENSIONS

Length(mm)	4,666
Overall Width (mm)	1,829
Height (unladen) (mm)	1,810
Wheelbase (mm)	3,081
Seats number	2 seats
Recyclability rate / Recovery rate / % of recycled materials	86.2% / 95.2% / 12.3%
Tyre reference 195/65 R15 95T	195/65 R15 95T
Spare wheel	Standard
Spare tyre inflation kit	No

## LOADING

Load volume (m3)	4.0
Loading Length (mm)	2,115
Load volume (m3)	4.0
Payload (kg)	650*
Kerb weight - empty without option (kg)	1,585
Gross vehicle weight(kg)	2,190
Gross train weight (kg)	2,512
Unbraked trailer (kg)	322
Braked trailer (kg)	322

\*Payload equals the Maximum Operating Mass (Gross Vehicle Mass or GVW) less the Kerb Mass. Kerb Mass is the weight of the complete vehicle including coolant, the battery, spare wheel and jack, but excluding driver and crew. All Kerb Masses, and therefore Payloads quoted are subject to a 5% manufacturing tolerance and are based on the base level model. Any additional equipment added (options or accessories), could result in a higher Kerb Mass and a reduced Payload, and decrease Wh/km.

# Engine and Dimensions



	Kangoo Z.E.
Min./max. loading volume (dm <sup>3</sup> )	4,000/4,600
<b>DIMENSIONED DRAWING (mm)</b>	
<b>to</b> Wheelbase	3,081
<b>B</b> Overall length	4,666
<b>C</b> Front overhang	875
<b>D</b> Rear overhang	710
<b>E</b> Front track	1,521
<b>F</b> Rear track	1,533
<b>G</b> Overall width with/without door mirrors	1,829/2,138
<b>H</b> Unladen height	1,810/1,836
<b>H1</b> Height on swing doors	1,893/1,920
<b>J</b> Unladen sill height	547/601
<b>K</b> Min.-max. unladen/laden ground clearance depending on options	187/-212/151/171
<b>M</b> Front/rear elbow room	1,252
<b>N</b> Front/rear shoulder width	1,141
<b>Q1</b> Rear interior height	1,219
<b>Y</b> Rear width 1 m from sill bar	1,141
<b>Y1</b> Rear width 100 mm from sill bar	1,219
<b>Y2</b> Interior width between wheel arches depending on trim min./max./wooden trim	1,218/1,045/1,185
<b>Z</b> Loading height	1,129
<b>Z1</b> Effective loading length	1,862
<b>Z2</b> Loading length at floor level	2,115
<b>Z3</b> Passenger compartment length (pedal/rear)	1,716

# Equipment & options

	Z.E.
<b>EXTERIOR APPEARANCE</b>	
Black grain-effect bumpers and side protectors	●
Brigantin 15" full hubcaps	●
Black headlight masks	●
Metallic paint	○
<b>INTERIOR DESIGN</b>	
Black plastic passenger compartment mat	●
Special Z.E. instrument panel with energy gauge, tachometer, energy saver and special computer	●
<b>PROTECTIVE PARTITIONS</b>	
Protection bars behind the driver	○
Full steel bulkhead	●
<b>LOAD SPACE</b>	
8 floor-mounted lashing rings in the loading area	●
1 coat hooks on full-height partition	●
Partial trim on loading cell panels	●
Side trim to mid-height of the loading space and wheel arch	○
Fittings for roof bars or roof rack	●
<b>ACTIVE AND PASSIVE SAFETY</b>	
ABS (Anti-lock Braking System) + Emergency Brake Assist (EBA) + Retrograding engine torque regulation (MSR)	●
Driver Passenger Front and Side Airbags	●
Passenger's front airbag with programmed restraint	●
Driver and passenger thorax-level side airbags	●
130km/h engine speed limit	●
Front seat belts with pretensioners and force limiters with programmed restraint	●
Central locking of doors (except fuel flap) by radio-frequency remote control (2-button Key) with automatic locking of doors when in motion	●
Cruise control and speed limiter	●
Deadlocking (electric release of the door-locking mechanisms offers effective protection of the loading compartment and the goods and materials stored in it)	●
Immobiliser system controlled by transponder key	●
Rain-sensing automatic headlights	●
<b>SEATS</b>	
Height-adjustable driver's seat	●
Passenger seat with 'flat floor' fold-down function (not available with tubular partition)	○
Tanega upholstery	●
<b>DOORS AND WINDOWS</b>	
2 panelled sliding side doors, unglazed quarter panels	●
2 glazed sliding side doors, unglazed rear quarter panels, requires glazed rear opening	○
Panelled rear doors	●
Glazed Pack - glazed rear doors with rear wiper and heated rear window	○

	Z.E.
<b>VISIBILITY - LIGHTING</b>	
Loading area lighting (light next to left rear door)	●
Exterior courtesy lighting function	●
Three-position front central courtesy light	●
Front fog lights	●
Electrically adjustable and demisting aspherical door mirrors	●
Rearview mirror (linked to glazed rear opening elements)	○
Dusk-sensing automatic headlights	●
<b>COMFORT AND STORAGE AREAS</b>	
Storage compartments in front door panels	●
Large-volume (15 l) closed glovebox	●
Manual air conditioning with pollen filter	●
Electric driver and passenger front windows	●
One-touch up and down electric front window on driver's side	○
Central storage module with armrest between seats	○
12 V socket in central console	●
Roof storage rack	○
A4 storage space in dashboard	●
Height-adjustable steering wheel and driver footrest	●
<b>DRIVING</b>	
Rear parking distance control	●
Reversing parking camera and rear sensors	●
Sound signal for lights left on, door closure warning light	●
Driver seat belt alarm	●
Variable electronic power steering	●
Eco mode	●
On-board computer (mileage, partial/total distance, current/total consumption, etc.)	●
Emergency spare wheel	●
<b>COMMUNICATION</b>	
Bluetooth®, CD and USB, with steering wheel controls and integrated display	●
<b>SPECIAL Z.E. EQUIPMENT</b>	
Passenger compartment preconditioning (heating and ventilation system programming)	●
Standard chargecapability (3-7kW)	●
Mode 3 Type 2 standard charging cable (6.5 m)	●
Remotely controlled battery charging and pre-conditioning	●
Z.E. ELECTRIC rear decals	●
Z.E. Voice (audible warning for pedestrians)	●
<b>ADDITIONAL OPTIONS</b>	
Standard trailer towbar with 13-pin wiring harnesses	○
Protective grilles on glazed rear doors	○
Protective grilles on right side door and glazed rear doors	○
Non-slip rubber floor	○
Wooden panel kit: non-slip wooden floor with upper side wooden panel	○