Electric mover

Robik Q30/R

2.2 kW Power – Differential steering

Patented pending

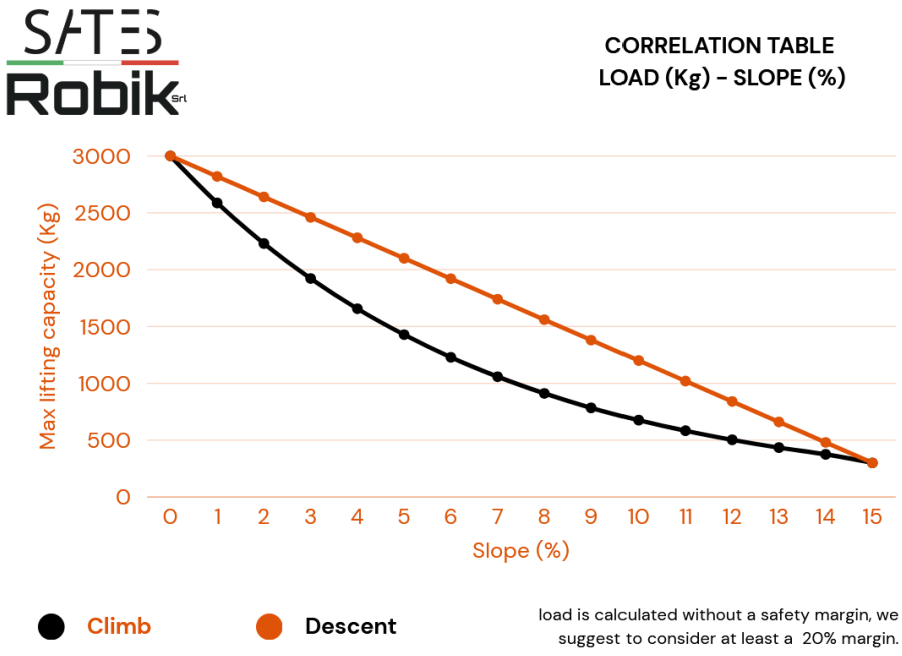
Data Sheet

SATES Robik srl

Last update: 24/07/2025

General Features	
Model Name	**Robik Q30/R**
Manufacturer	SATES & ROBIK S.R.L.
Description	Electric mover, tow and pusher
Power supply	Electric
Plant tension	24 V
Nominal power	2.2 kW
CE marking on rear right-hand side	
IP degrees of protection	IP 20 or ONLY ON REQUEST IP40 with closed casing slits
Frame characteristics	
Frame made of	Steel
Frame treatment	Polyester powder coating
Carter	Steel, painted with epoxy powder
Special Treatment	Cataphoresis (on customer demand only)
Special Carter	stainless steel 316 (on customer demand only)
Colour	Black (RAL 9004) and orange (RAL 2009)
Safety data	
Operator is distant from the area affected by operations	Radio control
Light signalling of movement	Flashing light
Disengagement device on machine	Emergency button
Power supply disconnection device/ Emergency stop	on Radio control
Acoustinc signaling Cicalino	Beeper
Electro-magnetic parking braking	2 brakes (8 N x 2 = 16 N total)
Drive controls	Mainteined action switch
Handarm vibration	Absent
Noise level at operator's ear (Beeper)	dB < 45-90
Wheel covers (moves foot)	2 (on customer demand only)
Performances	
Max. forward speed	3.5 km/h
Max. backward speed	3.5 km/h
Vertical lifting on flat ground	+/- 3.000 kg
Lift capacity on flat ground* (with vertical load min 500 kg)	+/- 620 kg 6.080 N
Towing capacity on flat ground ** (with vertical load min 500 kg)	+/- 580 kg 5.690 N
Max. slope with reduced load	15 % (8.5°)

The transportable weight is determined based on the slope, the surface, and the continuity of the work.
The graph below illustrates the impact of the slope on the towable and transportable load on level ground:



PLEASE NOTE the reported data may change over time, variants can also be inserted to increase performance or otherwise improve Robik

Stopping distance in deceleration (without load) with adequate grip	300 mm

THEORETICAL VALUES:

Average towable weight 10/20 tons with trailer to tow with 2/4 wheels max and medium-low friction coefficients.
Towable weight over 20 tons with trailer to tow with 2/4 wheels max and low friction coefficients (example: flat surface and iron wheels).

* Load capacity is subject to kind of slope, kind of floor and operating time

**While the force expressed in N at the lifting plate remains unchanged, the towing capacity in tons can vary substantially from the nominal value reported here, depending on the type of soil on which the towing is carried out, on the type, number and condition of wheels fitted to the trailer, on the presence of any gradients and friction present and generated in the system

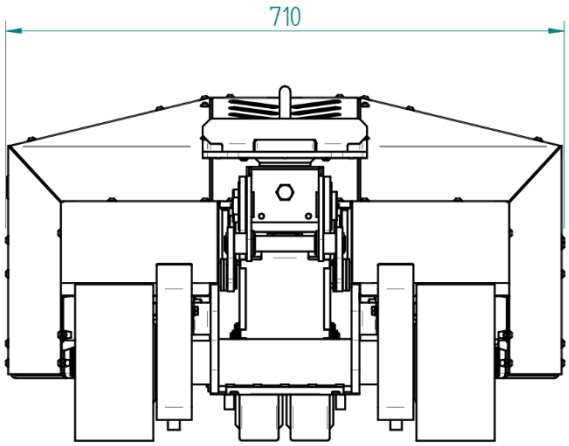
Lifting	
Electro-hydraulic pump	1
Voltage	24 V
Tank capacity	4 L
Type of oil	Shell Telus 46/Mobil/dte25
Operating temperature	-10°/40°C
% umidity	max 80%
Safety device with oil discharge valve	Yes
Safety device against falling load (stop pressure)	Yes
Electric limitation arm stroke on/under	Yes
Drive control	
Driving type	Radio remote controlled
Forward/Reverse control	Joystick on Right
Speed adjustment	Joystick on Right
Steering	Joystick on Left
Lifting	Joystick
Emergency stop	On console
Start	Connection to the unit
Rear steering	24 V
Active differential Steering	
Radio control frequency	2.4 GHz
Battery specifications	
Batteries	n°2
Battery Type Abt Power Cycle Free Maintenance	Traction – Dry Deep Cycle GEL
Battery voltage	24 V
OPTION A Nominal capacity c20/h (standard)	n°2 batteries each of 12 V - 140 Ah
OPTION B Lithium (only on request)	n°1 Battery
OPTION C Lithium (only on request)	n°2 Batteries
Weight of each battery	~ 30 Kg
Average autonomy per continuous service	3-4 h*

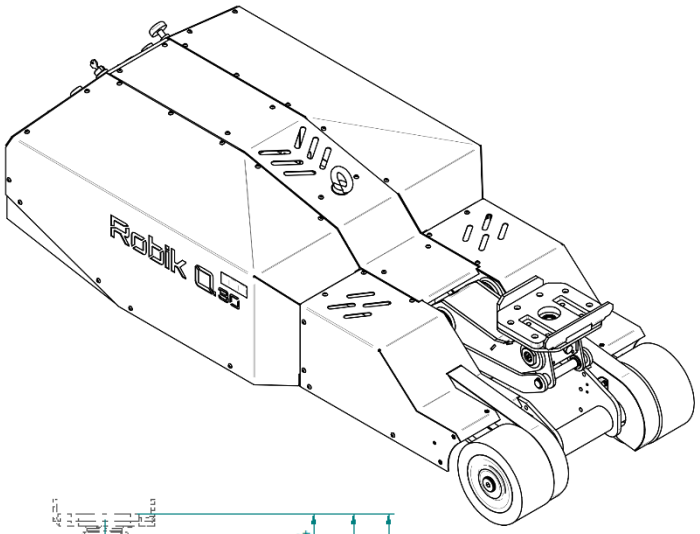
* This value may change depending on the specific use for which Robik is intended, on the friction during the handling phase, on the number and frequency of manoeuvres, on the surface where the manoeuvre is made and the gradients present. For all these reasons to have a more precise data on the autonomy of Robik, the potential user must provide as much information as possible about the environment and on the type of use to which Robik will be subject, on the trolley to be moved and on any instruments to be used. This information is also needed to assess alternative types of storage.

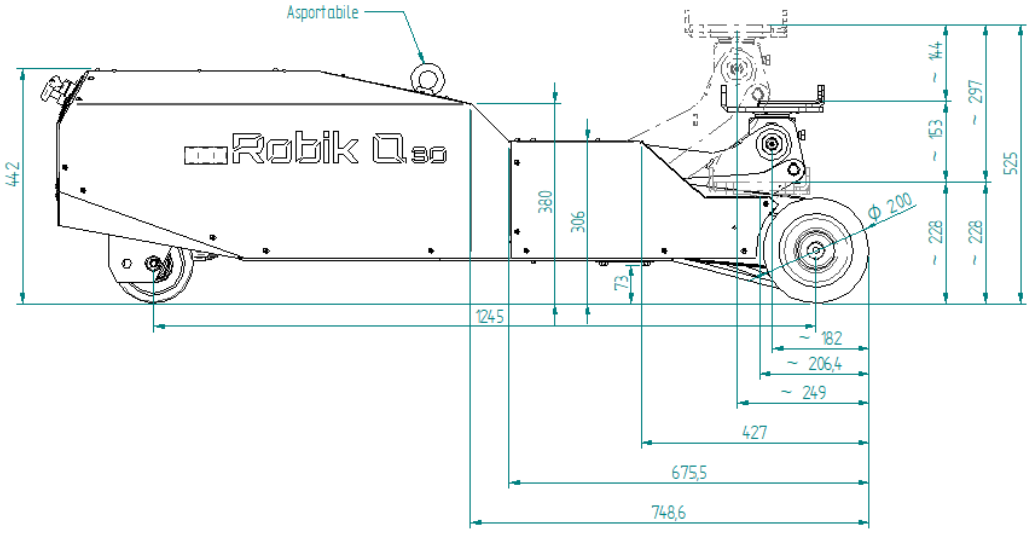
Technical data charger High Efficiency Low consumption	
Battery charger	External – high frequency
Input voltage	230 V
Input frequency	50-60 Hz
Charger time	+/- 8 h
Battery charger capacity	+/- 25 Ah
Power consumption during complete charge cycle	Max 2,5 kWh
Operating temperature	-20°/+45°
Operation display	Led
Input fuse	16 A
Cooling system	Ventilation cooling
IP degrees of protection	IP66
Width	180 mm
Length	290 mm
Height	85 mm

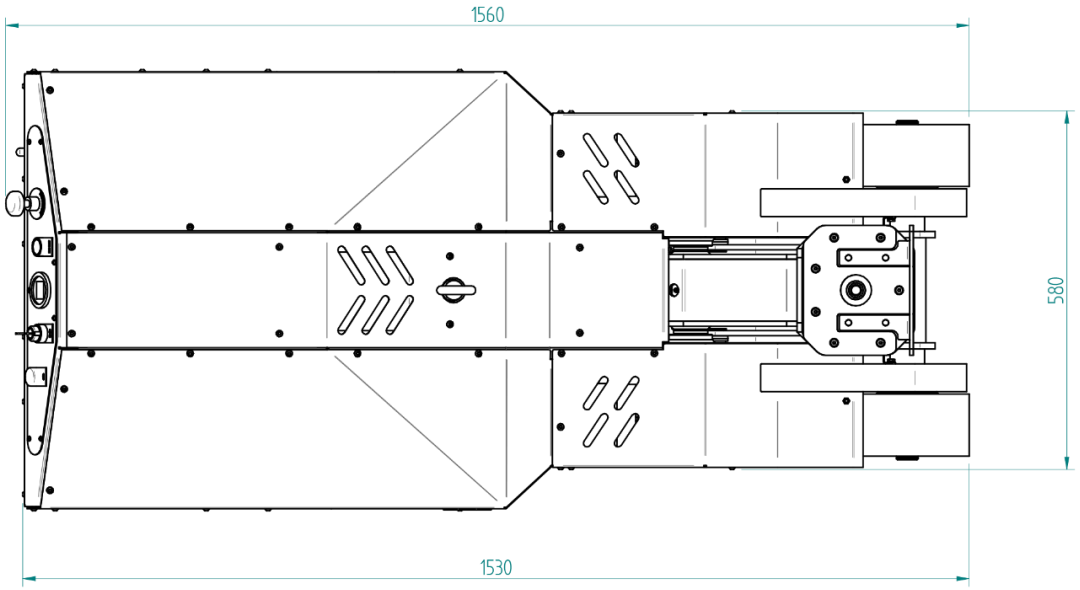
Technical data motor	
Motor	2 electric motors
Engine Voltage	24 V
Nominal Power	2200 W
Service electro magnetic brake	n°2 (8 N x 2= 16 N total brake power)
IP degrees of protection	IP 20
Transmission system	Mechanical
Transmission lubrification	In oil bath
Reduction ratio	
Dimensions (see technical drawing)	
Length	1530 mm
Width	710 mm
MIN Height Loading Platform	228 mm
MAX Height Loading Platform	525 mm
Wheelbase	576 mm
Weight*	± 375 kg
*The weight may vary depending on the configuration of the machine	
Standard drive wheels	
Drive wheels	N°2
Wheel material	Superelastic solid
Wheel diameter	Ø200
Standard steering wheels	
Steering wheel	n°1
Wheel material	Polyurethane Shore 95 A
Steering wheel size	Ø150/50 × 2 (twin wheel)

Technical drawing









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