

maxon on Mars



The NASA Rovers in comparison

	Sojourner	Spirit and Opportunity
Height	32 cm	157 cm
Weight	11 kg	185 kg
Communication	8 Bit CPU	32 Bit CPU
Cameras	3 (768 x 484)	9 (1024 x 1024)
Height above ground	25 cm	154 cm
Spectrometer	1	3
Speed	3,6 m/h	36–100 m/h
maxon motors	11 RE 16	17 RE 20 22 RE 25

Lander
8 x RE 25

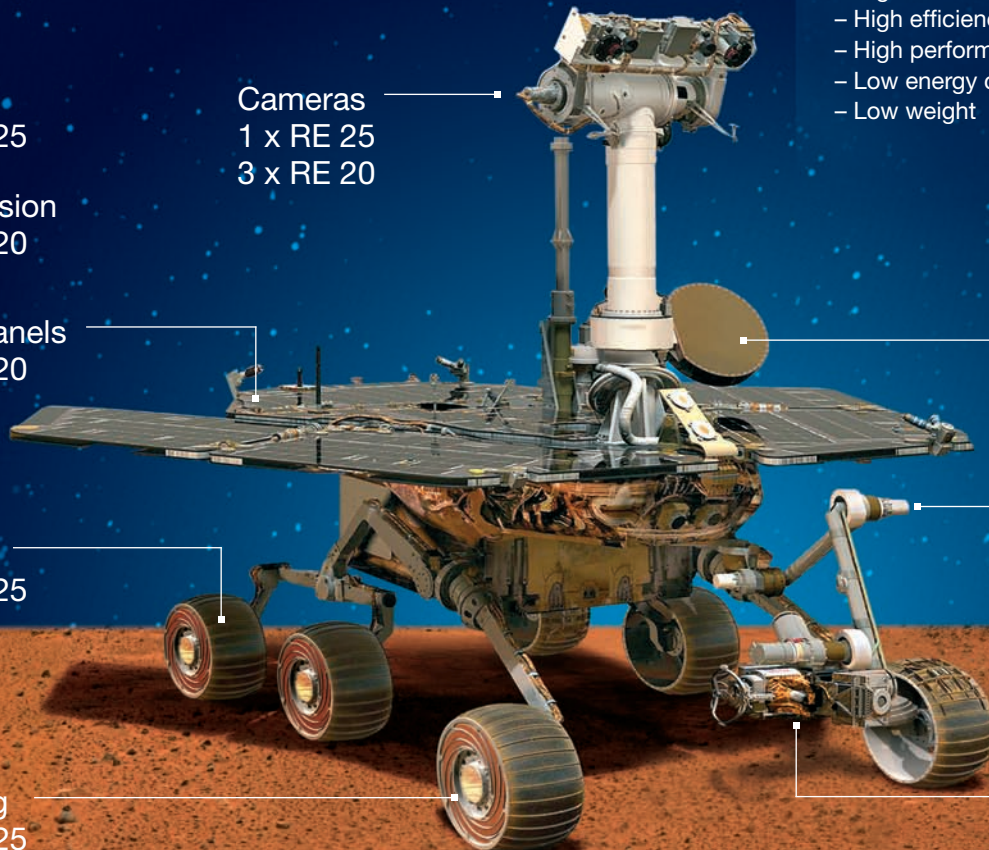
Suspension
2 x RE 20

Solar panels
5 x RE 20

Wheels
6 x RE 25

Steering
4 x RE 25

Cameras
1 x RE 25
3 x RE 20



Antenna
2 x RE 20

Robotic arm
5 x RE 20

Rock Abrasion Tool
1 x RE 25
2 x RE 20

Mars

Distance Earth-Mars	45–400 Mio km
A "day"	24 hours, 37 minutes
A "year"	686,98 earth days
Surface temperature	-140°C to +20°C
Atmospheric pressure	10 hPa
Gravity	38%
Highest volcano	26 400 m

	Mars	Earth
Carbon dioxide	95%	0,03%
Nitrogen	2,7%	78%
Argon	1,6%	1%
Oxygen	0,13%	21%
Other inert gases		0,01%
Water	0,03%	>70%

When it really matters

maxon motors stand out due to:

- High quality
- High reliability
- High efficiency up to 90%
- High performance
- Low energy consumption
- Low weight

maxon motor

driven by precision



maxon drives on Mars.

What's the difference between the 39 motors on the Mars Rover and the four million other ones which leave our factories every year? Nothing.

When it really matters, even space travel relies on our drive systems. It's no wonder then that they're also very much in demand on earth – in industry, in medical and safety technology, in measurement and testing engineering and many other areas.

maxon motor is the world's leading supplier of high precision drives and systems. We develop and manufacture coreless DC motors with an assigned output up to 500 watts, planetary and spur gearheads, feedback devices and control electronics together with high-tech ceramic components. Many of these solutions are customer-specific. maxon motor excels through its capacity to innovate, its unbeatable product reliability, its competitive prices and its worldwide sales network. However, the most important thing is the quality of the solution which we achieve with and for our customers. See what we can do for you: www.maxonmotor.com

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