

## More rovers on Mars

**In 2020 the European Space Agency (ESA) and NASA will send their rovers to Mars. Here's a comparison of the two machines.**

Both rovers are being deployed to Mars in June/July 2020 to look for signs of life and take soil samples.

Maxon DC motors feature in both the rovers and here we take a look at the difference between the two rovers.

### NASA Mars 2020

Mission start: June/July 2020 aboard Rocket Atlas V-541.

There are nine Maxon DC brushless motor and drive systems that help collect the soil samples. The EC 32 flat and EC 20 flat motors fitted with planetary gearhead and customised in commission with NASA/ JPL.

### ESA ExoMars

Mission start: June/July 2020 aboard Rocket Proton.

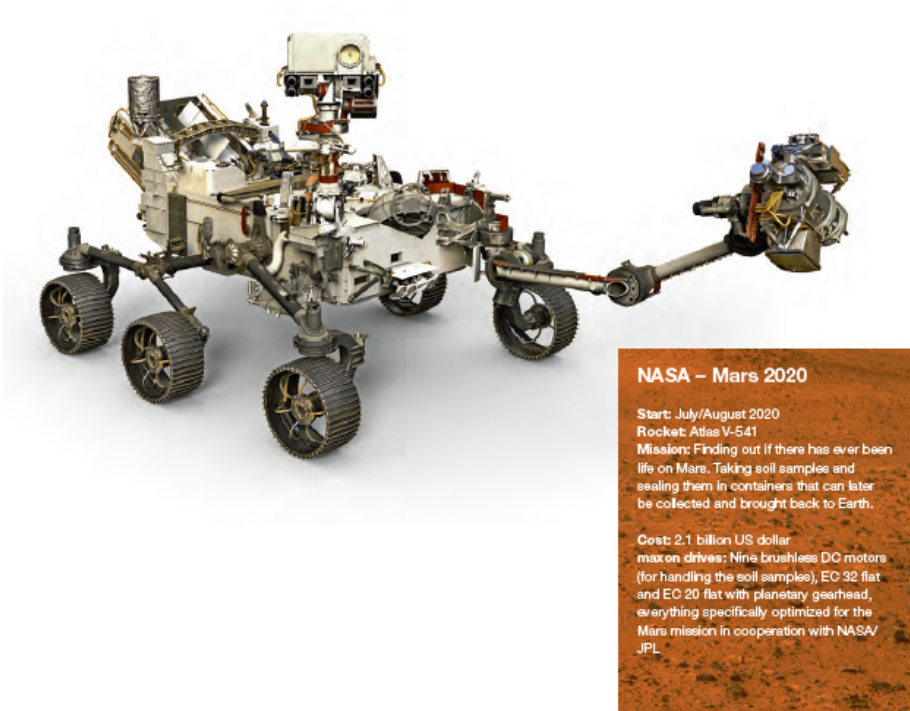
More than 50 actuators from Maxon assist with the wheel drive, sample distribution and camera movements. There are 17 different configurations of brushed and brushless DC motors including the DCX 10, DCX 22 and EC 40 combined with gearheads, brakes and encoders.

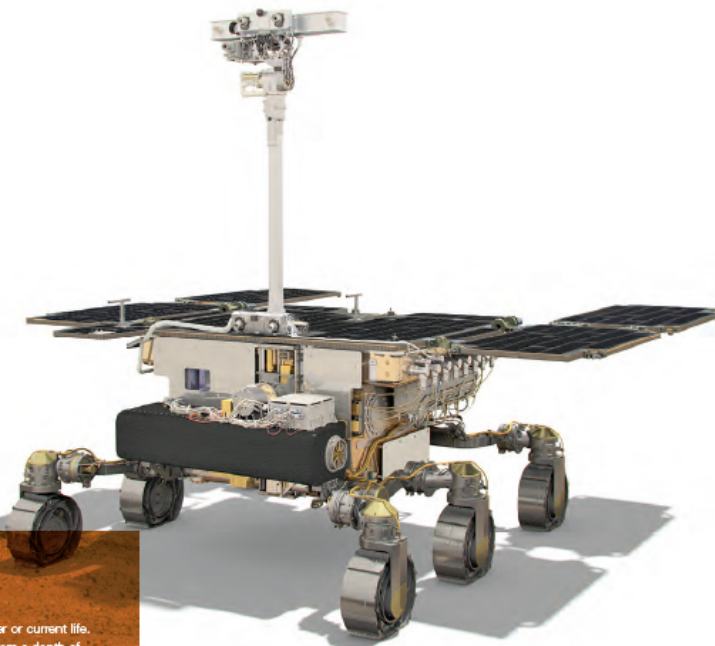
For more information on Maxon's Aerospace capabilities please contact +61 2 9457 7477.

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The media release is available on the internet at: [www.maxonmotor.com.au](http://www.maxonmotor.com.au)





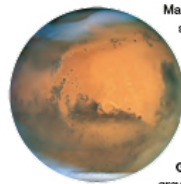
**ESA – ExoMars**

Start: July/August 2020  
Rocket: Proton  
Mission: Looking for former or current life. A drill takes soil samples from a depth of two meters. The rover analyzes the samples on-site with measuring instruments.

Cost: 1.8 billion dollar (incl. the preliminary mission of 2018)

maxon drives: More than 50 actuators, from the wheel drive to sample distribution to camera movement, with 17 different configurations of brushed or brushless DC motors (such as DCX 10, DCX 22 or EC 40) in combination with gearheads (such as GP 22 HD), brakes and encoders

**Mars**



Mars is the fourth planet from the sun and is considered to be an earthlike planet.

- Average temperature: -55°C
- Diameter: 6,779 km
- Orbital period: 687 days
- Length of the day: 1d 0h 40m
- Gravitation: 38 percent of the gravity on Earth

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