

# Mission to Mars

## Robotic Toolkit Added to NASA's Mars 2020 Rover

The bit carousel, which lies at the heart of the rover's Sample Caching System, is now aboard NASA's newest rover.

Current Temperature, Wind & Pressure :

Temperature - InSight sol 261 (2019-08-21) low -102.4°C (-152.4°F) high -26.6°C (-15.8°F)

Wind - winds from the SSE at 4.9 m/s (11.0 mph) gusting to 16.0 m/s (35.8 mph)

Pressure - pressure at 7.70 hPa

### Mars Profile

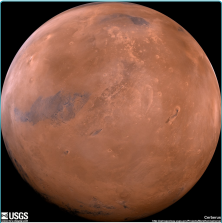
Equatorial Diameter: 6,792 km
Polar Diameter: 6,752 km
Mass: $6.39 \times 10^{23}$ kg (0.11 Earths)
Moons: 2 (Phobos & Deimos)
Orbit Distance: 227,943,824 km (1.38 AU)
Orbit Period: 687 days (1.9 years)
Surface Temperature: -87 to -5 °C
First Record: 2nd millennium BC
Recorded By: Egyptian astronomers

### Mars/ Earth Comparison

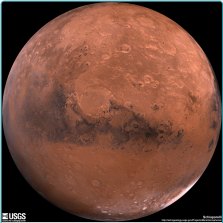
Diameter: 6,779 km / 12,742 km
Mass: $6.39 \times 10^{23}$ kg / $5.97 \times 10^{24}$ kg
Moons: 2 / 1
Distance from Sun: 227,943,824 km / 149,598,262 km
Length of Year: 687 Earth days / 365.24 days
Temperature: -153 to 20 °C / -88 to 58°C



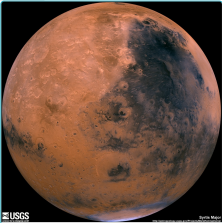
Picture of the Day - First Curiosity Drilling Sample in the Scoop



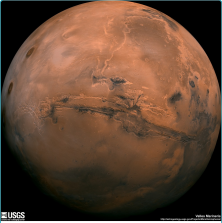
Cerberus Hemisphere Enhanced



Schiaparelli Hemisphere Enhanced



Syrtis Major Hemisphere Enhanced



Valles Marineris Hemisphere Enhanced

