The European Agency assigned to an industrial team led by Thales Alenia Space Italia the study ‘Analysis of a Pressurised Lunar Rover’ which would define the overall preliminary requirements and the conceptual design for a Pressurized Lunar Rover (PLR) System, fitting into the emerging architectures related to lunar exploration. The proposed PLR is a six wheels pressurized rover powered by solar arrays and fuel cells, having an internal scientific laboratory, re-locatable to different locations between excursion missions and being operable by a single crew member or remotely from either a ground control centre or a lunar base.
037 Moon Rolly

**CHARACTERISTICS**

**Client:** European Space Agency, ESTEC, Noordwijk, the Netherlands  
**Background:** ESA Study "Analysis of Pressurized Lunar Rover PLR"  
**Objectives:** Develop a rover configuration as European contribution to a future human Moon mission  
**Location:** Moon  
**Transport:** Three-stage Ares V rocket with EDS (Earth Departure Stage) and Cargo Lander

**CREDITS**

**Design Team:** Architecture and Vision - Arturo Vittori & Andreas Vogler  
**Lead Contractor:** Maria Antonietta Perino, Massimiliano Bottacini, Thales Alenia Space, Torino, Italy  
**Contractors:** Space Application Services, Zaventem, Belgium; Verhaert, Kruibeke, Belgium; Carlo Gavazzi Space, Milano, Italy; Politecnico di Torino, Torino, Italy