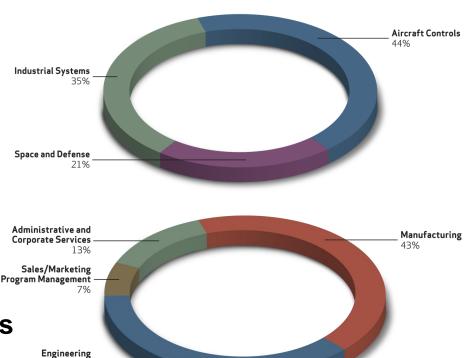


Path to the First Launch of the SL-OMV

16th Annual CubeSat Developers Workshop Christopher Loghry April 24, 2019

Company Background Information

- Founded in 1951 by Bill Moog
- Headquarters in East Aurora, NY
 - Over 300 Acre Facility
- Global Company
 - -25 Countries
- Over 11,800 Employees Worldwide
- **\$2.70 Billion in Revenue** (FY 2018)
- Aerospace, Defense, Industrial
- Precision Control Systems Solutions and Component Provider







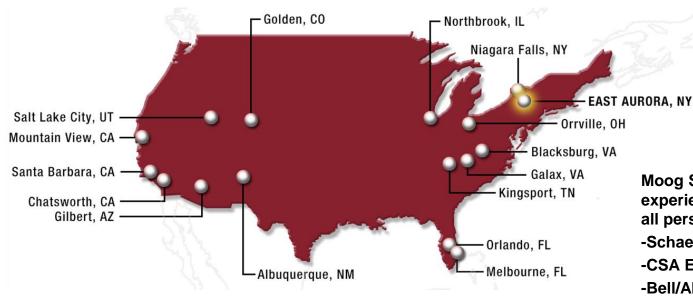






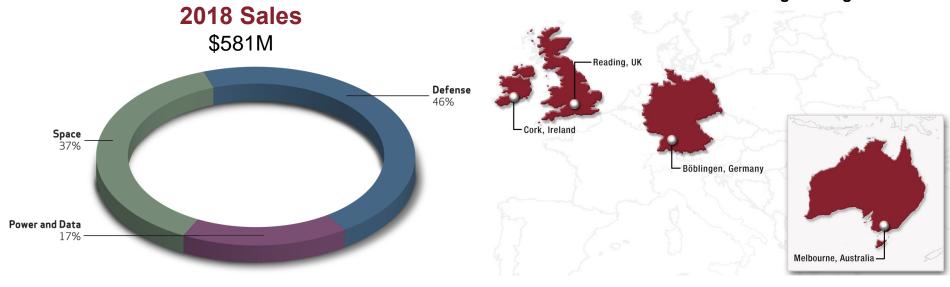


Moog Space and Defense Group



Moog Space leverages the unique experience from acquisitions to include all perspectives in the Space market

- -Schaeffer Magnetics
- -CSA Engineering
- -Bell/ARC/AMPAC In-Space Propulsion
- -Broad Reach Engineering



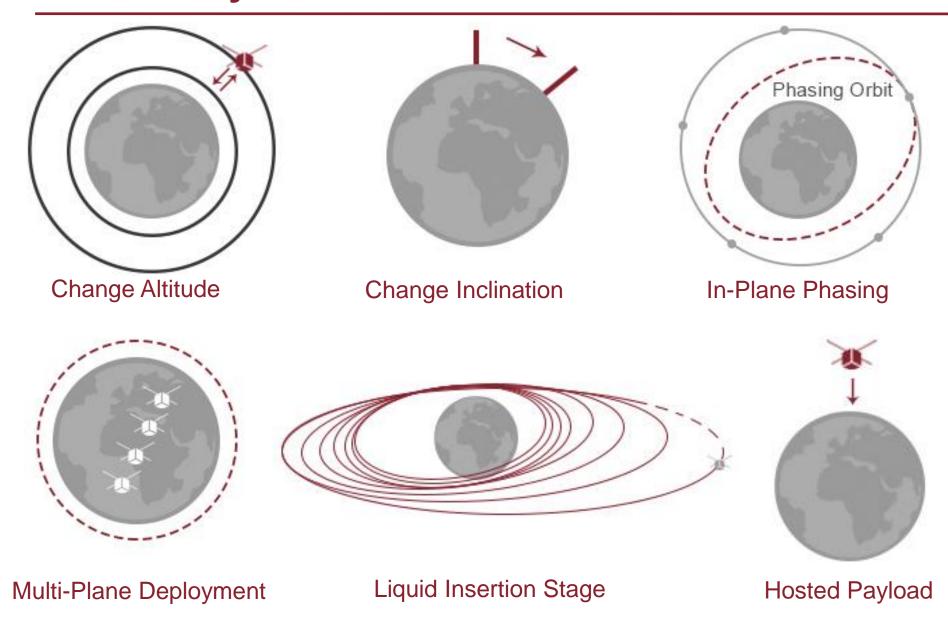


Solutions for Every Stage of a Space Mission





OMV Family Use Cases



July 16, 2018 – A Big Day for the SL-OMV

Lockheed Martin, Orbex to launch from new British spaceport

by Jeff Foust - July 16, 2018





Courtesy of NASA

Lockheed Martin To Help UK Space Agency Build First Commercial Spaceport; Launch First Orbital Rocket First vertical launch from Scotland planned for the early 2020s.

An illustration of a Lockheed Martin-provided launch U.K.'s proposed spaceport in Sutherland, Scotland. Cre

Courtesy of SpaceNews



FARNBOROUGH, England, July 16, 2018 /PRNewswire/ — The UK Space Agency has selected Lockheed Martin (NYSE: LMT) to help implement its vision for the UK Spaceflight Programme, an innovative initiative to create a world-leading commercial launch market that grows the UK economy through regular, reliable and responsible access to space.

"The countdown to the first orbital rocket launch from UK soil has officially begun," said Patrick Wood, Lockheed Martin's UK Country Executive for Space. "The UK Government has stated its desire to grow the UK's space sector to ten percent of the global space economy by 2030. We are proud to be selected to help them achieve this goal. This initiative will not only spark advancements in science and innovation, it will create new opportunities for current and future UK-based suppliers to become part of the next space age."

Courtesy of Lockheed Martin

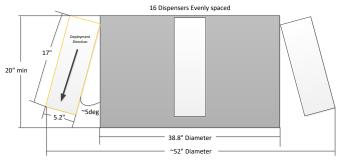




» 📭 🕿 🖶



SL-OMV Progression



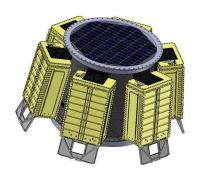
November 2015



January 2016



Summer 2016



Winter 2016



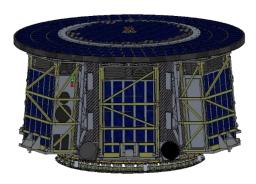
Spring 2017



Winter 2017



Spring 2018



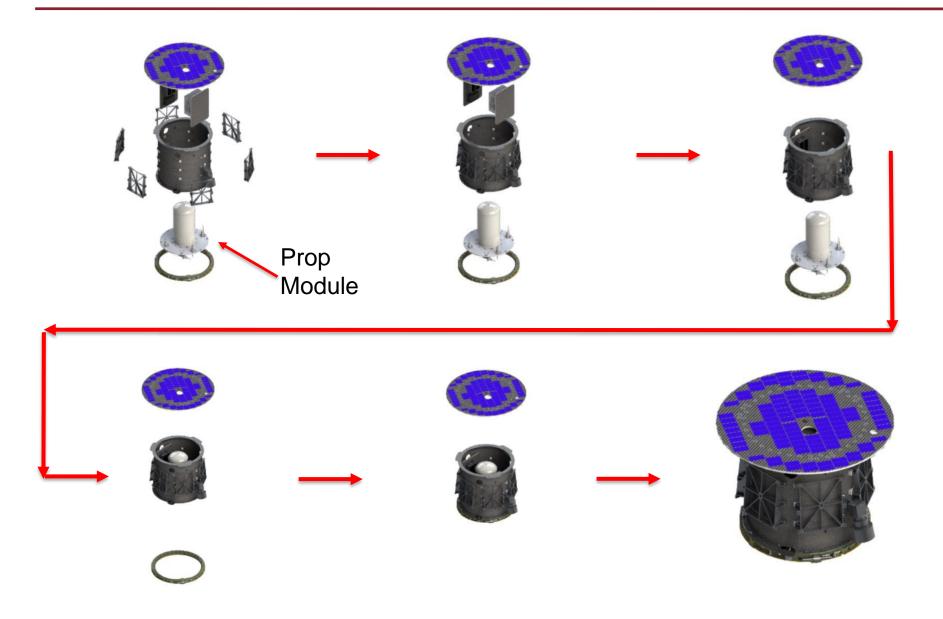
Fall/Winter 2018



Spring 2019



SL-OMV Integration Planning





SL-OMV Program: Both Sides of the Pond



Large UK Foot Print



Note: Final hardware selections in work but several additional UK locations will support this program

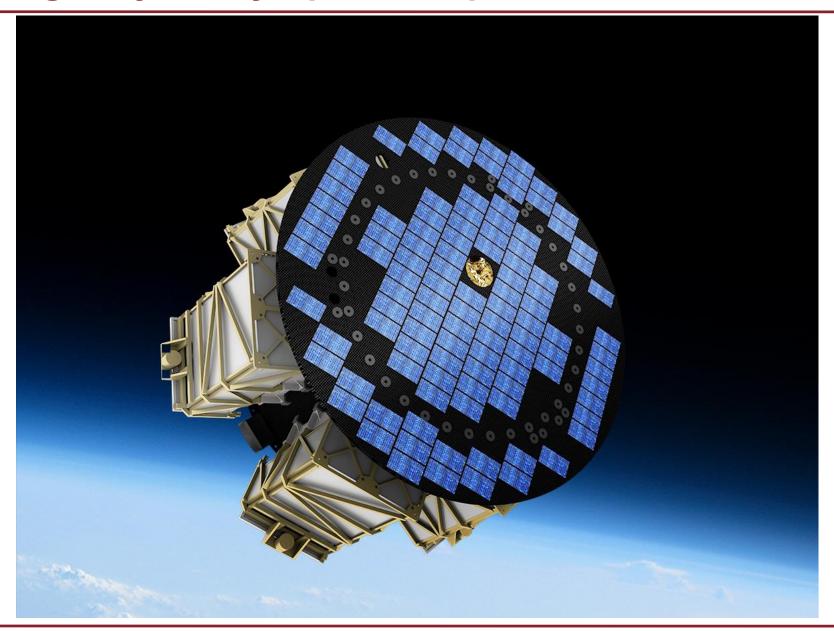


SL-OMV Schedule

Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3+ 2020
ATP								
	SRR	PDR						
		Industry Day						
			MIR #1					
				CDR				
					MIR #2			
					PRR			
						I&T		
							Build Complete	
								SIL

Current Status

Obligatory Pretty Space Graphic





Contact Information

Please contact us with any questions or potential applications you would like to discuss

<u>www.slomv.space</u> or <u>www.moog.com/slomv</u>

- Chris Loghry: SL-OMV Business Development
 - cloghry@moog.com
 - **–** 818-734-3445
- Marissa Stender: SL-OMV Technical
 - mstender@moog.com
 - 720-557-3872
- Joe Maly: University Relations
 - imaly@moog.com
 - 650-960-4226

