



# MDA GLOBAL HEADQUARTERS AND CENTRE OF EXCELLENCE FOR SPACE ROBOTICS



The HIDI Group delivered comprehensive base building engineering services including mechanical, electrical, plumbing, communications, security, energy consulting, and lighting design for the MDA's new Global Headquarters and Centre of Excellence for Space Robotics located in Brampton, Ontario and was a purpose-built facility by the Kaneff Group for its tenant MDA Space. In addition, the facility was commissioned by HRCx. This expansive complex spans approximately 260,000 ft<sup>2</sup> across three buildings: two office towers, MDA North and MDA South, and a dedicated research facility, all situated on an 11.5-acre site with close proximity between structures to support operational efficiency.

In addition, The HIDI Group served as the engineering consultant for the tenant fit-out of MDA's new Global Headquarters and Centre of Excellence for Space Robotics. The MDA Space campus comprises a 127,000 ft<sup>2</sup> head office in the South building, 52,000 ft<sup>2</sup> of office space in the North building, and an 80,000 ft<sup>2</sup> research facility. This state-of-the-art facility includes ISO-certified cleanrooms, controlled-environment laboratories, secure material handling systems, automated manufacturing for specialized components, data centre R&D spaces, and areas dedicated to assembly, integration, testing, and quality assurance.

The campus features a diverse array of specialized laboratories designed to support cutting-edge research and development. These include cleanrooms built to ISO standards, electronics labs, chemical labs, thermal environment simulation chambers, vibration testing facilities, laser laboratories, solar simulation labs, and anti-gravity simulation environments. In addition to its technical spaces, the site houses a dedicated data centre and an isolated communications infrastructure to support secure government projects. To ensure uninterrupted operations in mission-critical environments, the facility is equipped with electrical redundancies, including multiple generators and uninterruptible power supply (UPS) systems.

This cutting-edge campus is home to the Canadarm3 and represents the future of space exploration robotics. It also features a dedicated Space Robotics Mission Control Centre, enabling MDA to support critical in-orbit operations for both commercial and government space missions.

**8** DISCIPLINES

- MECHANICAL
- ELECTRICAL
- FIRE PROTECTION
- LIGHTING DESIGN
- COMMUNICATIONS & AV
- SECURITY & RISK
- COMMISSIONING
- ENERGY SERVICES

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**LOCATION** Brampton, Canada  
**ARCHITECT** HOK Canada  
**SIZE** 260,000 ft<sup>2</sup>  
**PROCUREMENT TYPE** Construction Management  
**CONSTRUCTION VALUE** \$100 Million CAD  
**COMPLETION DATE** 2024  
**MARKET SECTOR** Commercial, Laboratory

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