

WPI SNOWBLAST ROV

SPEC SHEET

COMPANY SPEC



Figure 1: Team Snowblast. Left to right: Kevin Yu, Yun Zhao, Jindou Xiang, Ziqi Ma, Zihang He, Zirun Yang, Zixuan Yin (photographer) not pictured

First year competing in the MATE ROV competition
10,350km travel distance (Tianjin, China → St. John's, NL, Canada)

Jindou Xiang
Xinchen Yu
Yun Zhao
Ziqi Ma
Zirun Yang
Zixuan Yin
Zihang He

Assistant Structural Engineer, Rules and Compliance Officer
Electrical and Electronics Engineer, Software Engineer
Structural Engineer, Architectural Engineer
Structural Engineer, On-site Supervisor
Finance Lead, Team Coordination Lead
Software Engineer, Algorithm Engineer
Project Lead, Systems Engineer, Algorithm Engineer

*All members are undergraduate students

2nd year
1st year
2nd year
2nd year
2nd year
3rd year
2nd year

ROV SPEC

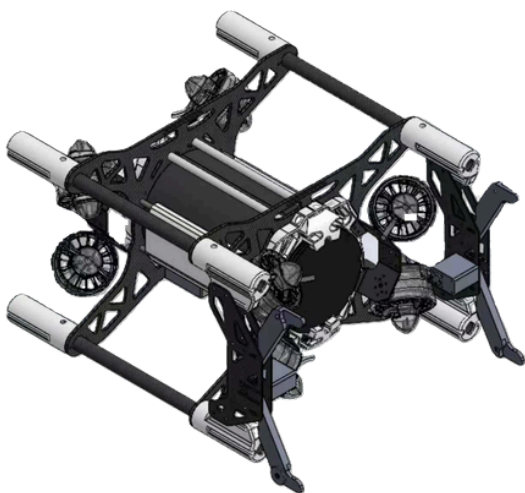


Figure 2: Snowblast 01 is the lead vehicle of Snowblast class. Her sister ship snowblast 02 shares the same design and configuration.

BASIC PARAMETERS

Names: Snowblast 01 (SB-01)
Snowblast 02 (SB-02)
Build Time: 500 hours
Total Cost of ROVs: \$9364.3USD
Dimensions (LxWxh): 600mmx475mmx334mm
Weight: 22kg

SAFETY FEATURES

- Conformal coating applied to all electronic components inside the housing
- Leak sensor installed on the flange
- TPU protective corners installed on edges
- Fused power cabling for electrical safety

SPECIAL FEATURES:

- 1-DoF gripper x2
- 5-DoF Arm + Gripper
- 8-thruster vector-layout ROV

