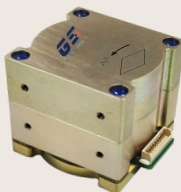
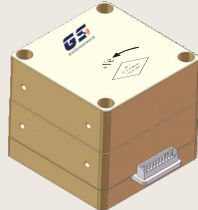
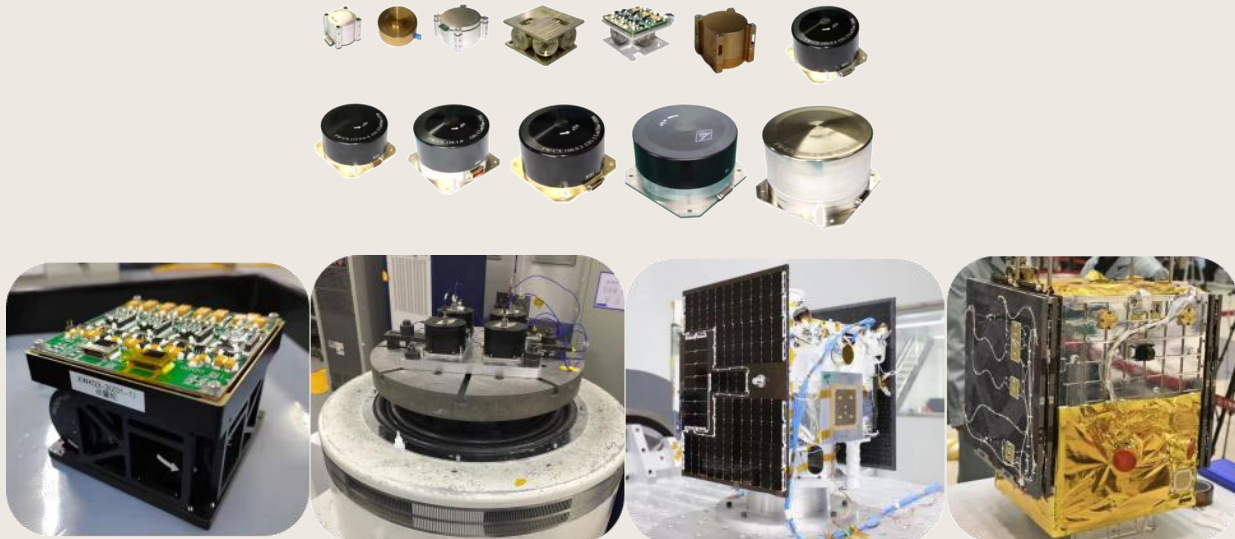
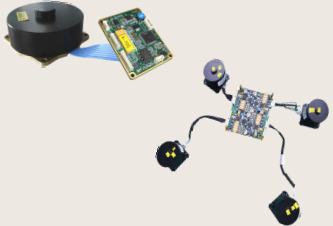
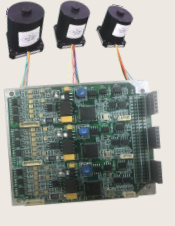
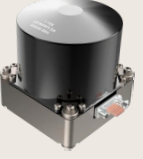
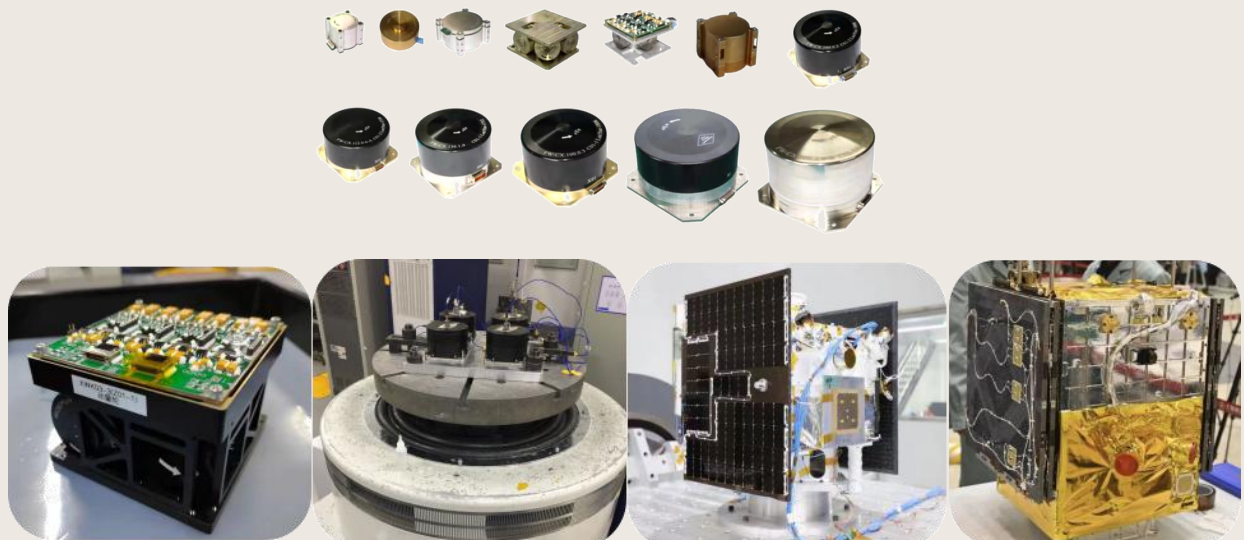


GranStal™ Reaction Wheels Solutions

GS-RW Reaction Wheels	The GS-RW series reaction wheels are low mass, low power reaction control wheels, which allow CubeSats and other pico- or nano-satellites to control their attitude. These reaction wheels are specifically designed for 1 to 3U CubeSat platforms, and they are also used in the iADCS-series of attitude determination and control systems as well as the iACS series of attitude control systems.	
Products specification		
Model	GS-RWT37	GS-RWT41
Appearance		
Dimensions	37mm x 37mm x 37mm	41mm x 41mm x 41mm
Performance	<ul style="list-style-type: none">• Total momentum storage: +/- 3mN.m.s@6000rpm• Maximum torque: 0.45mN.m• Maximum rotation rate: ±6000rpm• Control accuracy: ±5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 8.0(6.4~8.4)VDC• Low mass: 90 ± 10 g• Low power: 0.7W@3000rpm@8V ≤2.5W@0.45mN.m peak	<ul style="list-style-type: none">• Total momentum storage: +/- 6mN.m.s@8000rpm• Maximum torque: 0.45mN.m• Maximum rotation rate: ±8000rpm• Control accuracy: ±5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 24~32 VDC• Low mass: 115 ± 10 g• Low power: 0.8W@3000rpm@8V ≤2.5W@0.45mN.m peak
GS-RW™ Reaction Wheel for CubeSat Attitude Control		

GranStal™ Reaction Wheels Solutions

GS-RWS Reaction Wheels	The GS-RW series reaction wheels are low mass, low power reaction control wheels, which allow CubeSats and other pico- or nano-satellites to control their attitude. These reaction wheels are specifically designed for 1 to 3U CubeSat platforms, and they are also used in the iADCS-series of attitude determination and control systems as well as the iACS series of attitude control systems.		
Products specification			
Model	GS-RWS15	GS-RWS56	GS-RWS67
Appearance			
Dimensions	49mm × 49mm × 23mm	49mm × 49mm × 49mm	70mm × 70mm × 72.4mm
Performance	<ul style="list-style-type: none">• Total momentum storage: 15N.m.s@6000rpm• Maximum torque: 2.5mN.m• Maximum rotation rate: ±6500rpm• Control accuracy: ±5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 7.0~12)VDC• Low mass: 150g• Low power: 2.5W@6000rpm@8V ≤5.0W@2.5mN.m peak	<ul style="list-style-type: none">• Total momentum storage: 56mN.m.s@8000rpm• Maximum torque: 8.0mN.m• Maximum rotation rate: ±6200rpm• Control accuracy: ±5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 12 VDC• Low mass: 460 g• Low power: 2.5W@6000rpm@8V ≤7.5W@0.45mN.m peak	<ul style="list-style-type: none">• Total momentum storage: 67mN.m.s@8000rpm• Maximum torque: 10.0mN.m• Maximum rotation rate: ±6500rpm• Control accuracy: ±5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 24~32 VDC• Low mass: 450 g• Low power: 3.0W@6000rpm@8V ≤7.5W@0.45mN.m peak
GS-RW™ Reaction Wheel for CubeSat Attitude Control			

GranStal™ Reaction Wheels Solutions

GS-RW Reaction Wheels	The GS-RW series reaction wheels are low mass, low power reaction control wheels, which allow CubeSats and other pico- or nano-satellites to control their attitude. These reaction wheels are specifically designed for 1 to 3U CubeSat platforms, and they are also used in the iADCS-series of attitude determination and control systems as well as the iACS series of attitude control systems.			
Products specification				
Model	GS-RW10	GS-RW60	GS-RW200	GS-RW400
Appearance				
Dimensions	50mm x 50mm x 60mm	100mm x 100mm x 65mm	130mm x 130mm x 85mm	170mm x 170mm x 91mm
Performance	<ul style="list-style-type: none">• Total momentum storage: +/- 0.1N.m.s• Maximum torque: 10mN.m• Maximum rotation rate: ±6800rpm• Control accuracy: ±0.5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Plug-and-play design• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 9~15 VDC• Low mass: 250 g• Low power: 3.5W@6000rpm@28V	<ul style="list-style-type: none">• Total momentum storage: +/- 0.6N.m.s• Maximum torque: 20mN.m• Maximum rotation rate: ±6500rpm• Control accuracy: ±0.5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Plug-and-play design• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 10~32 VDC• Low mass: 1050 g• Low power: 4.5W@6000rpm@28V	<ul style="list-style-type: none">• Total momentum storage: +/- 2.0N.m.s• Maximum torque: 60mN.m• Maximum rotation rate: ± 6200rpm• Control accuracy: ± 0.5rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Plug-and-play design• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 24~32 VDC• Low mass: 1850 g• Low power: 5W@6000rpm@28V	<ul style="list-style-type: none">• Total momentum storage: +/- 4.0N.m.s• Maximum torque: 100 mN.m• Maximum rotation rate: ±5600rpm• Control accuracy: ±1.0rpm• Fire-and-forget speed and torque control.• I2C-compatible interface• Plug-and-play design• Primary components radiation tolerant to over 36 krad (Si)• Supply voltage: 20~32 VDC• Low mass: 2850 g• Low power: 10W@5600rpm@28V
GS-RW™ Reaction Wheel for CubeSat Attitude Control	<div></div>			