

Sagebrush Technology, Inc. Antenna Application Matrix

Aero 20

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Volume	288 cubic inches	288 cubic inches	288 cubic inches
Weight	Up to 20 lbs	Up to 20 lbs	Up to 20 lbs
Dimensions	Up to an 8-10" Diameter, 8" deep	Up to an 8-10" Diameter, 8" deep	Up to an 8-10" Diameter, 8" deep
Operating Environment			
Radome Required	No	No	No
Rotary Joints	Not Supported	Not Supported	Not Supported
Maximum Airspeed	70 knots		
Maximum Operating Altitude	10,000 ft MSL		
Special Requirements			
Stabilization	1 to 5 milli-radians	1 to 5 milli-radians	1 to 5 milli-radians
Continuous Rotation	Customization Required	Customization Required	Customization Required
Inertially Balanced Payload	Required	Required	Required

Model 2

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Description	Flat Panel	Flat Panel	Flat Panel
Weight	Up to 3 lbs	Up to 3 lbs	Up to 3 lbs
Dimensions	4" x 6"	4" x 6"	4" x 6"
Operating Environment			
Radome Required	Yes 9.5" Diameter	Yes 9.5" Diameter	Yes 9.5" Diameter
Rotary Joints	Coax	Coax	Coax
Maximum Airspeed	Limited by Radome		
Maximum Operating Altitude	15,000 ft Unpressurized, Unlimited Pressurized		
Special Requirements			
Stabilization	Available	Available	N/A
Continuous Rotation	Customization Required	Customization Required	Customization Required
Inertially Balanced Payload	Recommended	Recommended	

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Model 20 Stepper

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Description	Flat panel or small dish	Yagi, Flat panel, or small dish	Yagi, Flat panel, or small dish
Weight including Counterweights	Up to 20 lbs	Up to 20 lbs	Up to 20 lbs
Dimensions	Up to a 16" Diameter	Up to a 16" Diameter	Up to a 16" Diameter
Operating Environment			
Radome Required	Yes	Yes, except for Yagi antennas	Recommended
Rotary Joints	Not Supported	Not Supported	Not Supported
Maximum Airspeed	Limited by Radome		
Maximum Operating Altitude	15,000 ft Unpressurized, Unlimited Pressurized		
Special Requirements			
Stabilization	Not Available	Not Available	N/A
Continuous Rotation	Customization Required	Customization Required	Customization Required
Inertially Balanced Payload	Required	Required	Recommended

Model 20 Servo

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Description	Flat panel or small dish	Yagi, Flat panel, or small dish	Yagi, Flat panel, or small dish
Weight including Counterweights	Up to 20 lbs	Up to 20 lbs	Up to 20 lbs
Dimensions	Up to a 16" Diameter	Up to a 16" Diameter	Up to a 16" Diameter
Operating Environment			
Radome Required	Yes	Yes, except for Yagi antennas	Recommended
Rotary Joints	Not Supported	Not Supported	Not Supported
Maximum Airspeed	Limited by Radome		
Maximum Operating Altitude	15,000 ft Unpressurized, Unlimited Pressurized		
Special Requirements			
Stabilization	Available Option	Available Option	N/A
Continuous Rotation	Customization Required	Customization Required	Customization Required
Inertially Balanced Payload	Required	Required	Recommended

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Model 25

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Description	Flat panel, or Parabolic Dishes	Yagi, Flat panel, or Parabolic Dishes	Yagi, Flat panel, or Parabolic Dishes
Weight including Counterweights	Up to 30 lbs	Up to 30 lbs	Up to 30 lbs
Dimensions	Up to a 24" Diameter	Up to a 24" Diameter	Up to a 24" Diameter
Operating Environment			
Radome Required	Yes	Recommended	Recommended
Rotary Joints	Coax Supported in Azimuth with Customization	Coax Supported in Azimuth with Customization	Coax Supported in Azimuth with Customization
Maximum Airspeed	Limited by Radome		
Maximum Operating Altitude	15,000 ft Unpressurized, Unlimited Pressurized		
Special Requirements			
Stabilization	Available Option	Available Option	N/A
Continuous Rotation	Available Option	Available Option	Available Option
Inertially Balanced Payload	Required	Required	Required

Model 30 Worm Drive

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Description	Not Recommended	Yagi, Flat panel, or Parabolic Dishes	Yagi, Flat panel, or Parabolic Dishes
Weight including Counterweights		Up to 40 lbs	Up to 40 lbs
Dimensions		Up to a 36" Diameter	Up to a 36" Diameter
Operating Environment			
Radome Required		Recommended with dishes greater than 2' diameter	Recommended with dishes greater than 2' diameter
Rotary Joints		Coax Supported with Customization	Coax Supported with Customization
Special Requirements			
Stabilization		Not Available	N/A
Continuous Rotation		Available Option	Available Option
Inertially Balanced Payload		Required	Required

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Model 30 Roto-Lok

Specification Requirement	Airborne Antenna	Marine or Ground Mobile Antenna	Ground Antenna
Payload			
Payload Description	Not Recommended	Yagi, Flat panel, or Parabolic Dishes	Yagi, Flat panel, or Parabolic Dishes
Weight including Counterweights		Up to 40 lbs	Up to 40 lbs
Dimensions		Up to a 36" Diameter	Up to a 36" Diameter
Operating Environment			
Radome Required		Recommended with dishes greater than 2' diameter	Recommended with dishes greater than 2' diameter
Rotary Joints		Coax Supported with Customization	Coax Supported with Customization
Special Requirements			
Stabilization		Available Option	N/A
Continuous Rotation		Customization Required	Customization Required
Inertially Balanced Payload		Required	Required