

Liquid Slip Ring Series

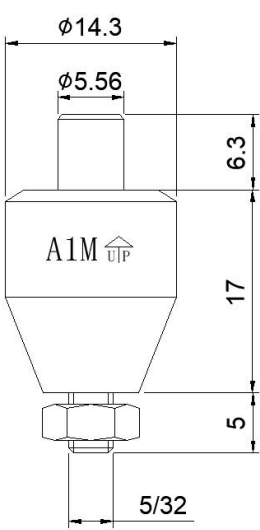
Mercury slip ring is a rotary joint with liquid mercury as the conductive medium. Compared with traditional collector rings, it has the advantages of compact structure, no mechanical wear during rotation, and long life. It supports high current (up to kiloamperes), high speed, and noiseless operation, with low contact resistance and high signal fidelity. It is suitable for scenes that require stable transmission of large current, such as precision instruments and high-power equipment.

Standard Model Selection Table

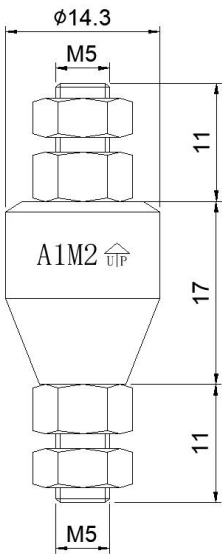
Model	Use current	Voltage	Speed	Operating temperature	Material	Usage Environment
A1M	10A	400V	1800rpm	-30°-60°	Aluminum Alloy	No corrosive liquids such as acid, alkali, and salt come into contact with the slip ring
A1M2	25A	400V	1800rpm	-30°-60°	Aluminum Alloy	No corrosive liquids such as acid, alkali, and salt come into contact with the slip ring
A1M2S	25A	400V	1800rpm	-30°-60°	Stainless steel	No corrosive liquids such as acid, alkali, and salt come into contact with the slip ring
A1M12S	85A	400V	1200rpm	-30°-60°	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring
A1H25S	180A	400V	1000rpm	-30°-60°	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring
A1H25ST	180A	400V	1000rpm	-30°-60°	Stainless steel	Corrosive water mist, water splash and slip ring in long-term contact
A1H35S	320A	400V	1000rpm	-30°-60°	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring
W1M25S-D	25A	400V	1800rpm	-30°-60°	Stainless steel	Corrosive water mist, water splash and slip ring in long-term contact
W1M50S-D	50A	400V	1500rpm	-30°-60°	Stainless steel	Corrosive water mist, water splash and slip ring in long-term contact

W1M120S-D	120A	400V	1200rpm	-30°-60°	Stainless steel	Corrosive water mist, water splash and slip ring in long-term contact
W1M180S-D	180A	400V	1000rpm	-30°-60°	Stainless steel	Corrosive water mist, water splash and slip ring in long-term contact
W1M300ST	300A	400V	1000rpm	-30°-60°	Stainless steel	Can adapt to corrosive environment and fog environment
W1M500ST	450A	400V	1000rpm	-30°-60°	Stainless steel	Can adapt to corrosive environment and fog environment

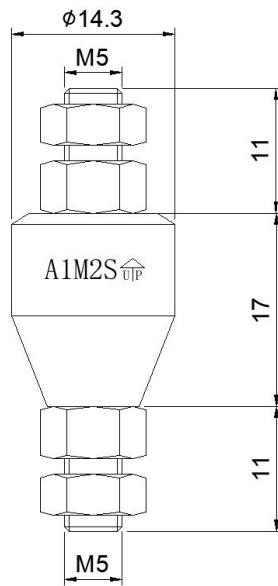
Model size drawing



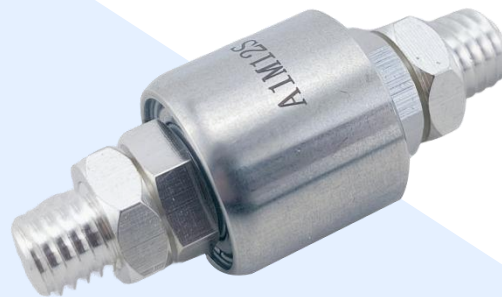
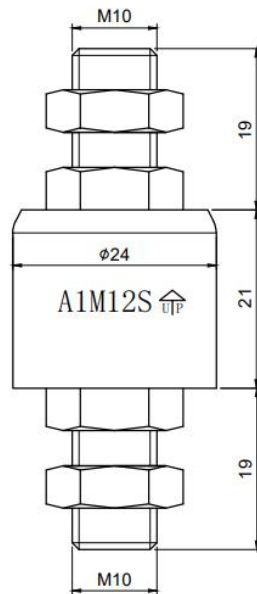
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1M	≤10A	20A	400V	1800rpm	-30 ~ 60℃	Aluminum Alloy	No corrosive liquids such as acid, alkali, and salt come into contact with the slip ring



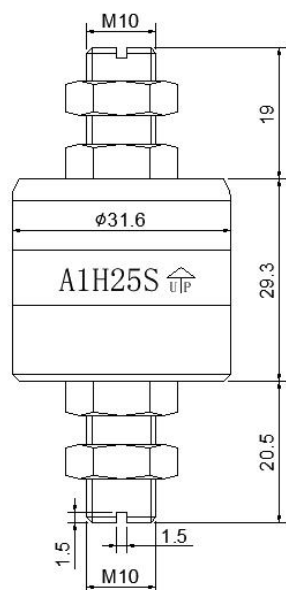
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1M2	≤25A	30A	400V	1800rpm	-30 ~ 60℃	Aluminum Alloy	No corrosive liquids such as acid, alkali, and salt come into contact with the slip ring



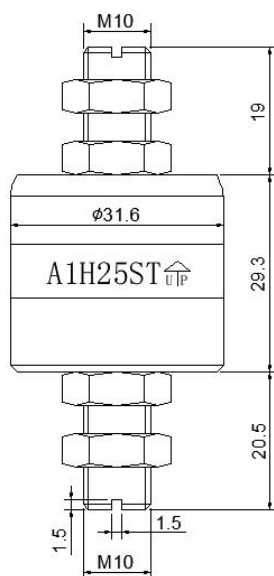
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1M2S	≤25A	30A	400V	1800rpm	-30 ~ 60℃	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring



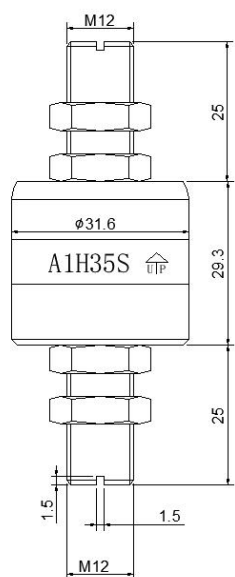
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1M12S	≤85A	120A	400V	1200rpm	-30 ~ 60℃	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring



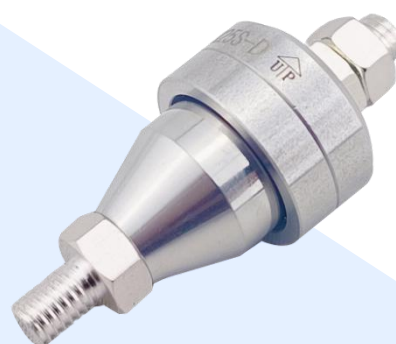
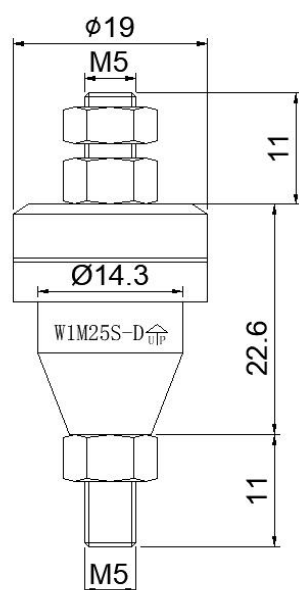
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1H25S	≤180A	250A	400V	1000rpm	-30 ~ 60°C	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring



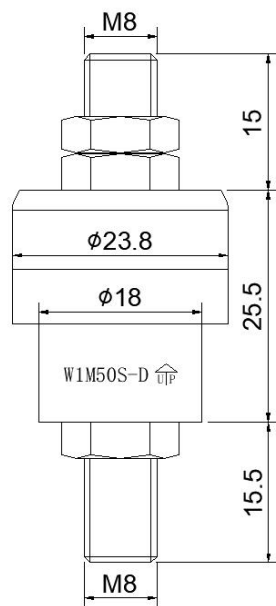
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1H25ST	≤180A	250A	400V	1000rpm	-30 ~ 60°C	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time



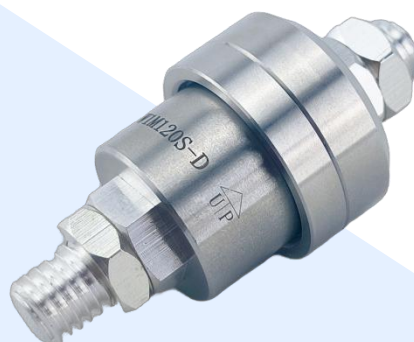
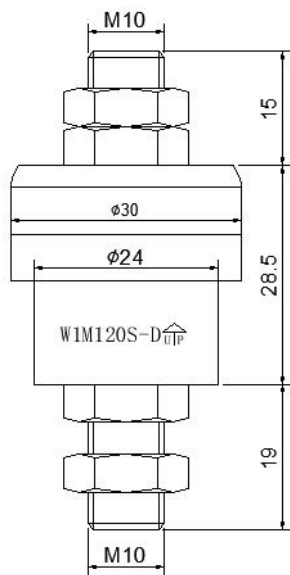
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
A1H35S	≤320A	350A	400V	1000rpm	-30 ~ 60℃	Stainless steel	A small amount of weakly corrosive material comes into contact with the slip ring



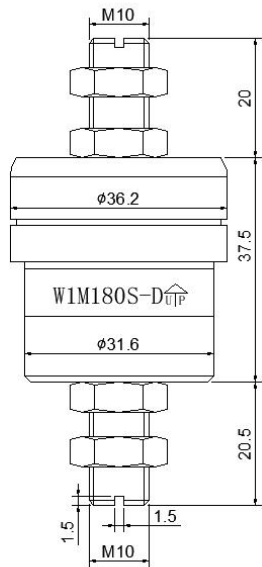
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
W1M25S-D	≤25A	30A	400V	1800rpm	-30 ~ 60℃	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time



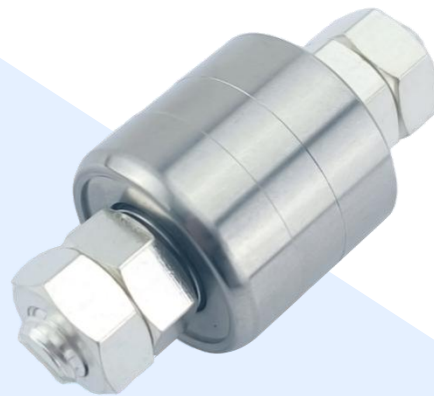
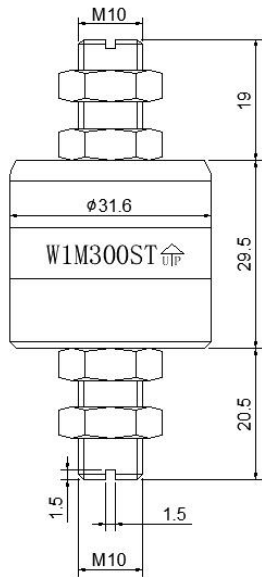
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
W1M50S-D	≤50A	65A	400V	1500rpm	-30 ~ 60℃	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time



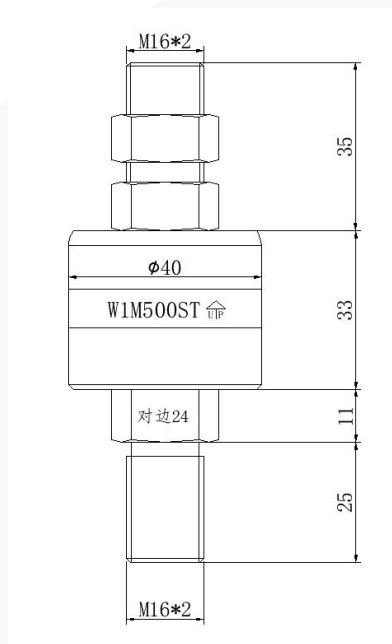
Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
W1M120S-D	≤120A	155A	400V	1200rpm	-30 ~ 60℃	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time



Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
W1M180S-D	≤180A	250A	400V	1000rpm	-30 ~ 60℃	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time



Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
W1M300ST	≤300A	350A	400V	1000rpm	-30 ~ 60℃	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time



Model	Use current	Peak current	Maximum voltage	Speed	Operating temperature	Housing Material	Usage Environment
W1M500ST	≤450A	500A	400V	400rpm	-30 ~ 60℃	Stainless steel	Water mist, water splash, water droplets with corrosive substances are in contact with the slip ring for a long time

Technical Specifications

Parameter name	Parameter Value
Insulation resistance	>35 mΩ
Contact resistance	< 1mΩ
Rated voltage	0 ~ 400VDC/VAC
Maximum frequency	200MHz
Working current	10-1500rpm(See the specific model, can be customized)
Operating temperature	-30℃ ~ +60℃
Operating humidity	0 ~ 85%RH
Protection level	IP51
Shell material	Stainless steel/aluminum alloy
Rotational torque	35-2000G-CM(See specific model)