

WJM080 Series

- Iron Core Technology
- Low Cogging Force
- Compact Size

Linear Motion

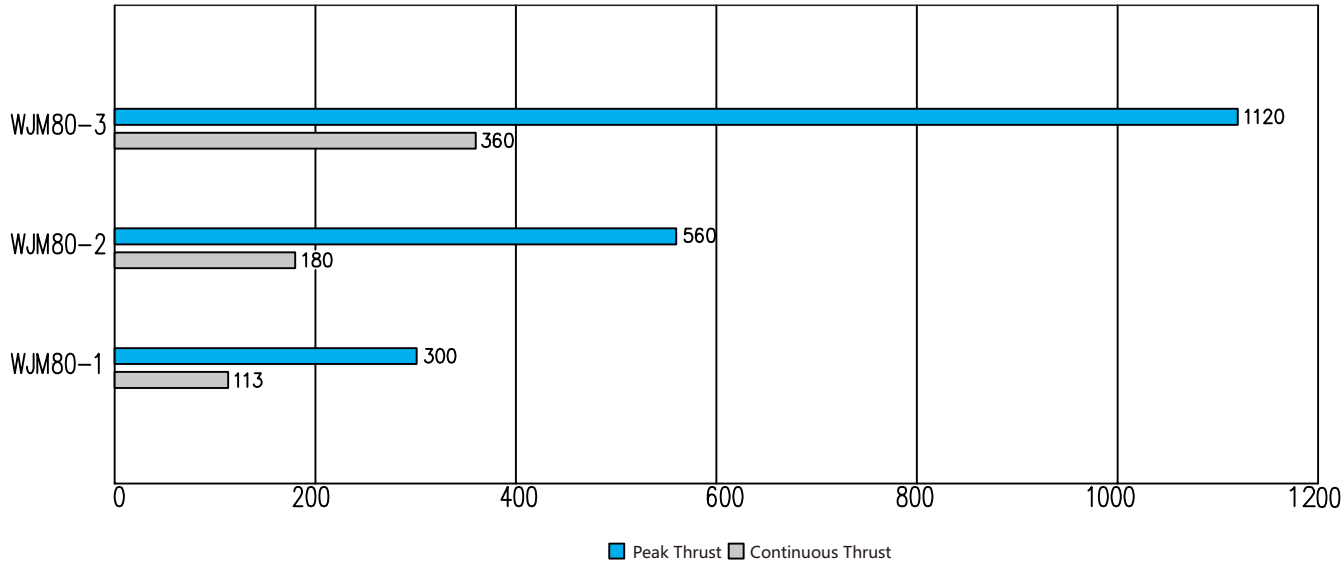
Horizontal Plane 2

Angular

Rotary

Vertical & Rotary

Thrust Graph



Specification Parameters

	Symbol	Unit	WJM080-01	WJM080-02	WJM080-03
Continuous Thrust	F_c	N	113	180	360
Continuous Current	I_c	A_{rms}	3	2.3	4.6
Peak Thrust [1s]	F_p	N	300	560	1120
Limiting Current [1s]	I_u	A_{rms}	12	9	18
Thrust Constant	K_f	N/A_{rms}	37.9	78.3	78.3
Attractive Force Between Mover & Stator	F_a	N	484	980	1960
Max. Coil Temperature	T_{max}	°C	100	100	100
Electrical Time Constant	K_e	ms	4.2	4.2	4.2
Resistance [Phase-to-Phase, 25°C]	R_{25}	Ω	4.3	9	4.5
Inductance [Phase-to-Phase, 25°C]	L	mH	18.6	38	19
Pole Pitch	2τ	mm	20	20	20
Back EMF Constant	K_v	$V_{rms}/[m/s]$	31	63.9	63.9
Continuous Thermal Power (Natural Cooling) @ 100°C	P_{CN}	W	73.7	95.2	190.5
Motor Constant [25°C]	K_m	N/\sqrt{W}	15	21.4	30.3
Thermal Dissipation Constant (Natural Cooling)	R_{TH}	W/°C	1	1.2	2.5
Thermal Sensor Switch	-	-	PT100	PT100	PT100
Max. Operating Voltage	-	V_{DC}	600	600	600
Mover Mass	M_f	kg	0.7	1.2	2.3
Stator Unit Mass	M_s	kg/m	6.5	6.5	6.5

Note: All data in this table is measured at an ambient temperature of 25°C and represents values obtained without forced cooling. Except for dimensional specifications, all other specifications have a tolerance of ±10%. Our company reserves the right to make changes, and relevant parameters are subject to change without prior notice.

• Mover Model Number Designation System

WJM

Series

WJM

080

Mover Width

100

A

Mover Length

1:56mm
2:96mm
3:176mm

-

L05

Coil Wire Length

L05: 0.5m
For other lengths, please consult our sales team.

• Stator Model Number Designation System

DJM

Series

WJM

080

Stator Width

080: 100mm

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L80

Stator Length

L80: 80mm
L200: 200mm
L400: 400mm

Stator Model	Length LC	Width	Height	A	Z	Pole Pitch	Weight
Unit	mm	mm	mm	PCS	PCS	mm	Kg/m
WJM080-L80	80	100	10.3	1	4	20	6.5
WJM080-L200	200	100	10.3	4	10	20	6.5
WJM050-L400	400	100	10.3	9	20	20	6.5

The coils of the WJM080 series can be freely paired with WJM080-L80, WJM080-L200, or WJM080-L400.

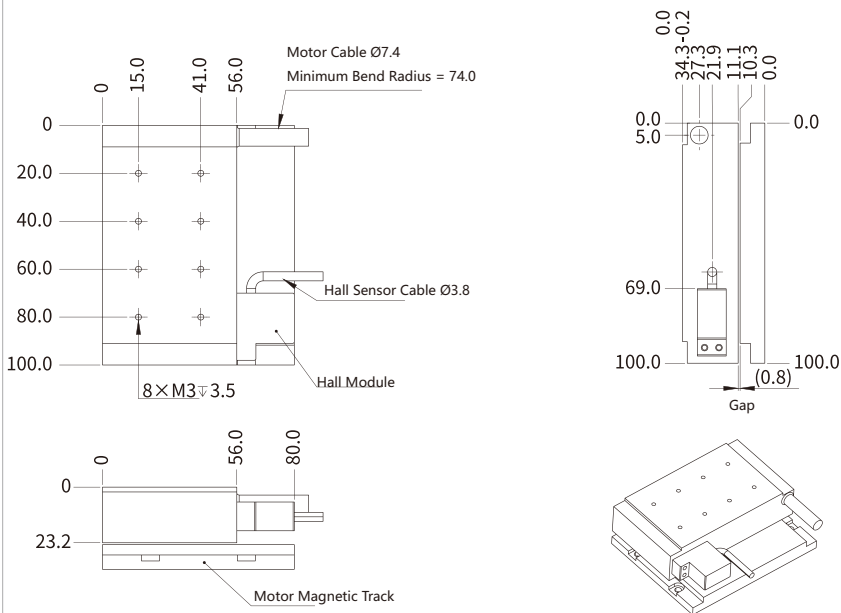
• Stator Size



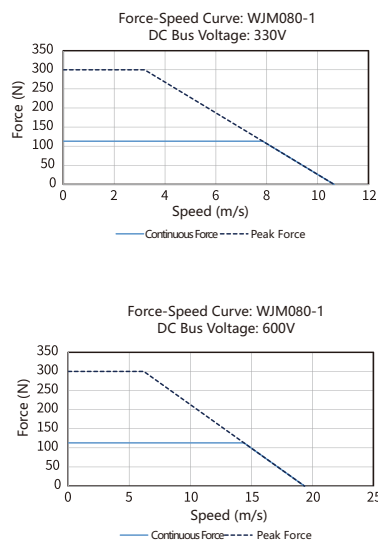
* For special length requirements, please consult our sales team.

WJM080-1 Series: Dimensions

In Stock Lead Time: 7 Days
* The lead time is subject to change during special periods. Please consult our sales team.

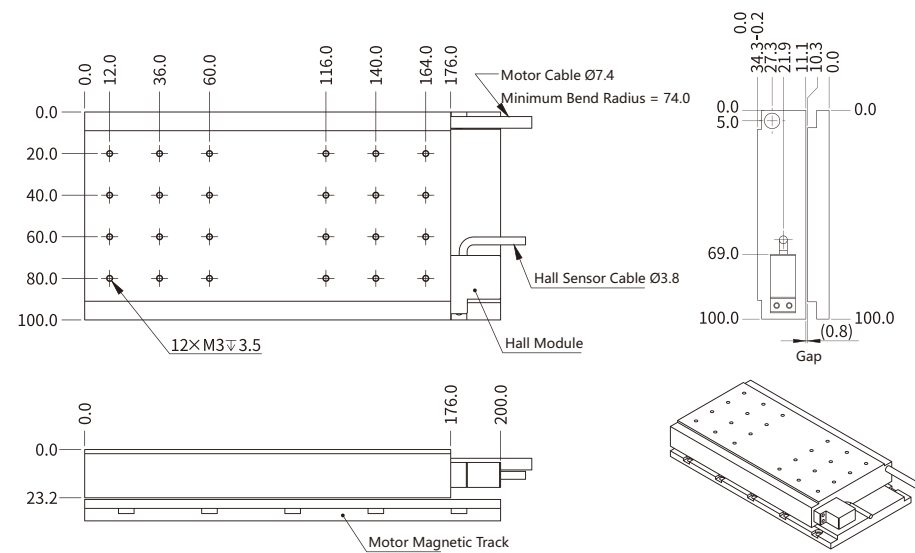


Force-Speed Curve

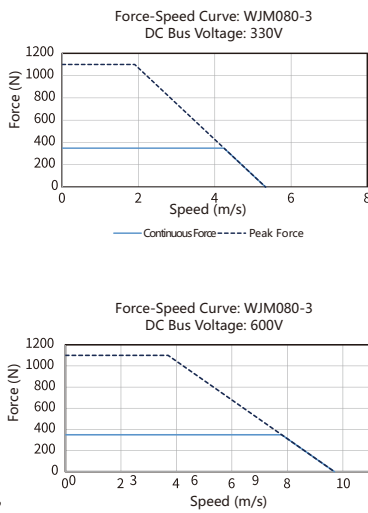


WJM080-3 Series: Dimensions

In Stock Lead Time: 7 Days
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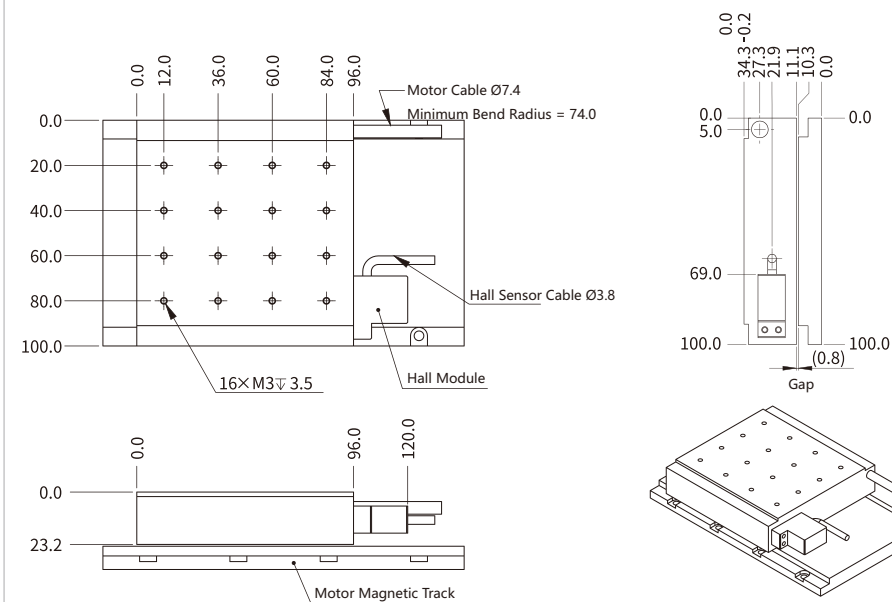


Force-Speed Curve

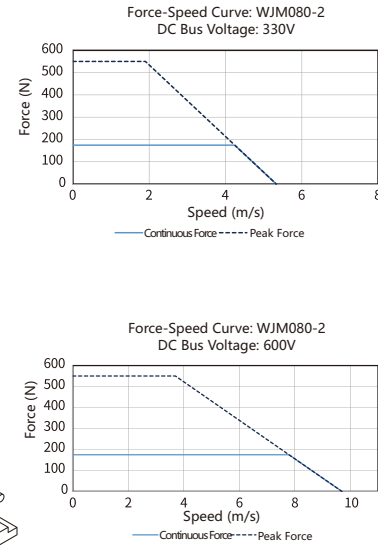


WJM080-2 Series: Dimensions

In Stock Lead Time: 7 Days
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Force-Speed Curve



MEMO