

WJM100 Series

- Iron Core Technology
- Low Cogging Force
- Compact Size

Linear Motion

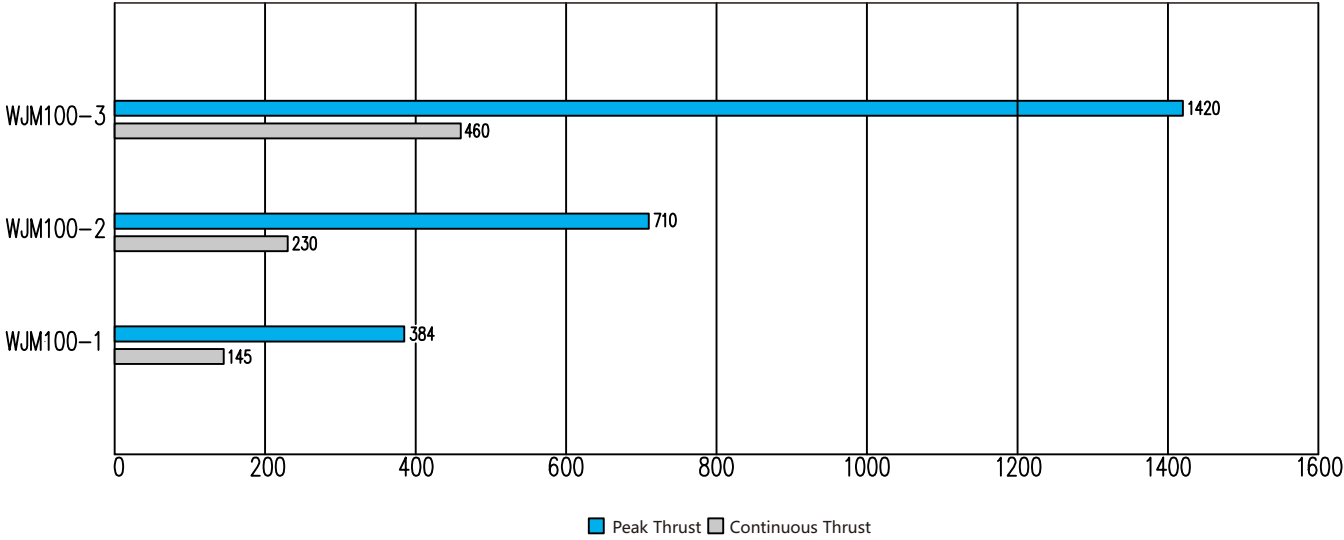
Horizontal Plane

Angular

Rotary

Vertical & Rotary

Thrust Graph



Specification Parameters

	Symbol	Unit	WJM100-1	WJM100-2	WJM100-3
Continuous Thrust	F_c	N	145	230	460
Continuous Current	I_c	A_{rms}	3	2.3	4.6
Peak Thrust [1s]	F_p	N	384	710	1420
Limiting Current [1s]	I_u	A_{rms}	12	9	18
Thrust Constant	K_t	N/A_{rms}	48.6	100	100
Attractive Force Between Mover & Stator	F_a	N	620	1250	2500
Max. Coil Temperature	T_{max}	°C	100	100	100
Electrical Time Constant	K_e	ms	4.5	4.5	4.5
Resistance [Phase-to-Phase, 25°C]	R_{25}	Ω	5.3	11	5.5
Inductance [Phase-to-Phase, 25°C]	L	mH	23.6	50	25
Pole Pitch	2τ	mm	20	20	20
Back EMF Constant	K_v	$V_{rms}/[m/s]$	39.7	81.6	81.6
Continuous Thermal Power (Natural Cooling) @ 100°C	P_{CN}	W	90.7	116.4	232.8
Motor Constant [25°C]	K_m	N/\sqrt{W}	17.3	24.8	35
Thermal Dissipation Constant (Natural Cooling)	R_{TH}	$W/^\circ C$	1.2	1.5	3.1
Thermal Sensor Switch	-	-	PT100	PT100	PT100
Max. Operating Voltage	-	V_{DC}	600	600	600
Mover Mass	M_r	kg	0.8	1.5	2.9
Stator Unit Mass	M_s	kg/m	8.13	8.13	8.13

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

100

Mover Width

125

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

100

Stator Width

100: 125mm

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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
WJM100-L80	80	125	10.3	1	4	20	8.13
WJM100-L200	200	125	10.3	4	10	20	8.13
WJM100-L400	400	125	10.3	9	20	20	8.13

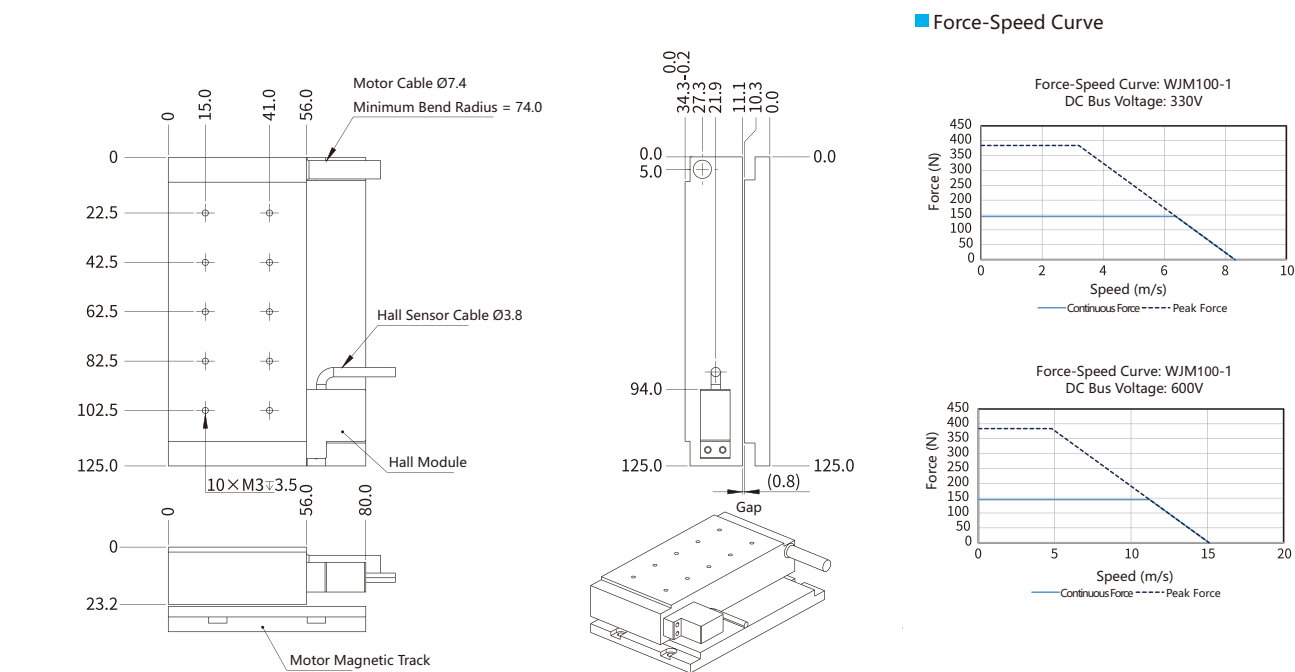
The coils of the WJM100 series can be freely paired with WJM100-L80, WJM100-L200, or WJM100-L400.

• Stator Size

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

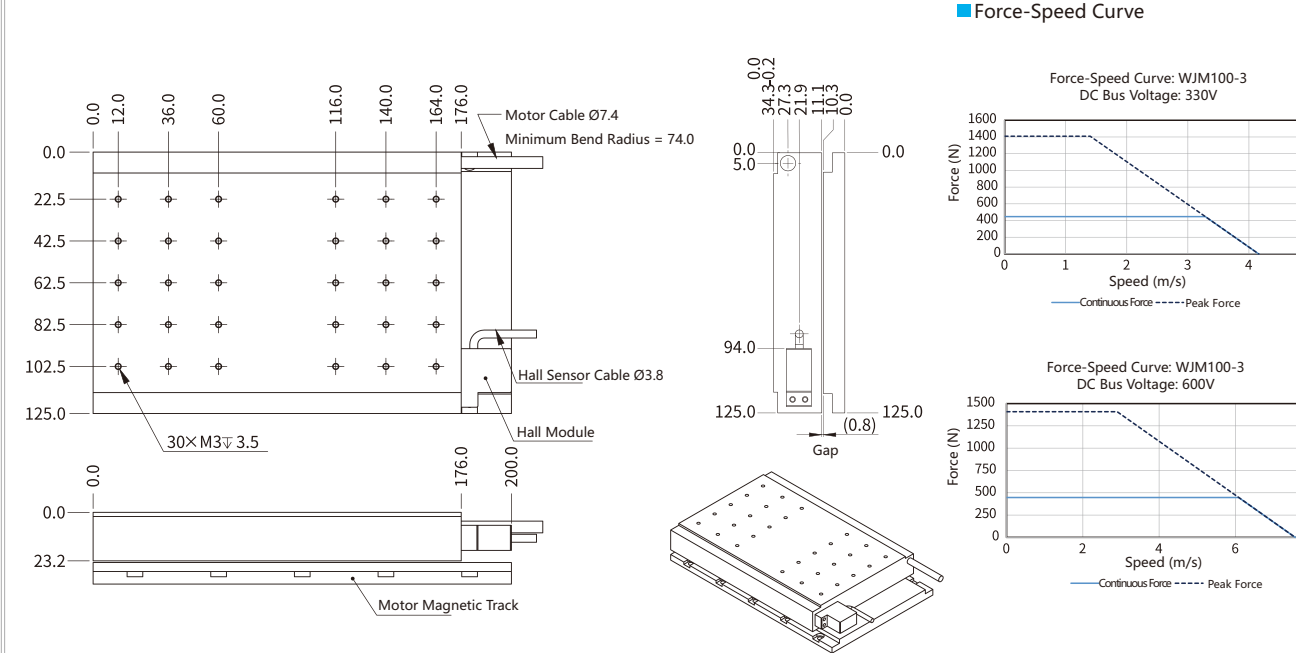
WJM100-1 Series: Dimensions

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



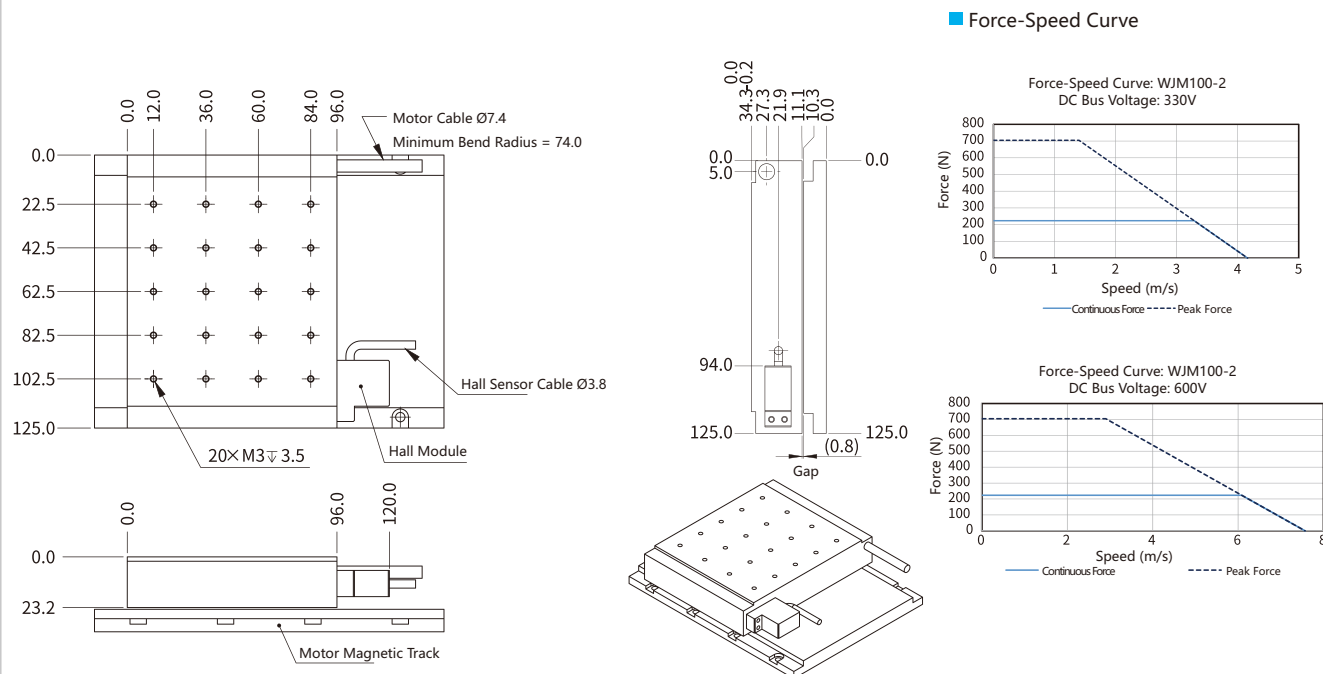
WJM100-3 Series: Dimensions

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



WJM100-2 Series: Dimensions

In Stock Lead Time: 7 Days
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MEMO