

• Mover Model Number Designation System

<b>WKM</b>	<b>30</b>	<b>A</b>
Series	Mover Width	Mover Length
WKM	51mm	1 : 112mm 2: 196mm 3 : 364mm

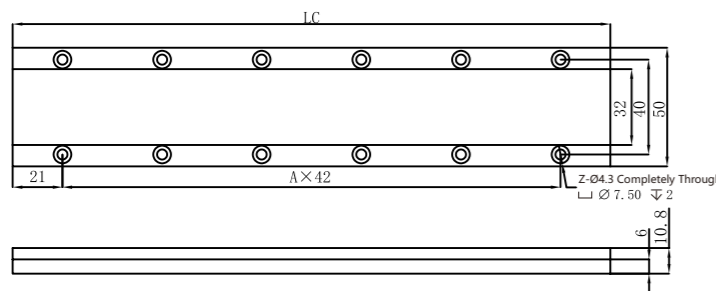
• Stator Model Number Designation System

<b>DKM</b>	<b>030</b>	<b>-</b>	<b>L168</b>
Series	Stator Width		Stator Length
DKM	030: 50mm		L168: 168mm L252: 252mm L420: 420mm

Stator Model	Length LC	Width	Height	A	Z	Pole Pitch	Weight
Unit	mm	mm	mm	PCS	PCS	mm	Kg/m
WKM30-168	168	50	10.8	3	8	42	3.2
WKM30-252	252	50	10.8	5	12	42	3.2
WKM30-420	420	50	10.8	9	20	42	3.2

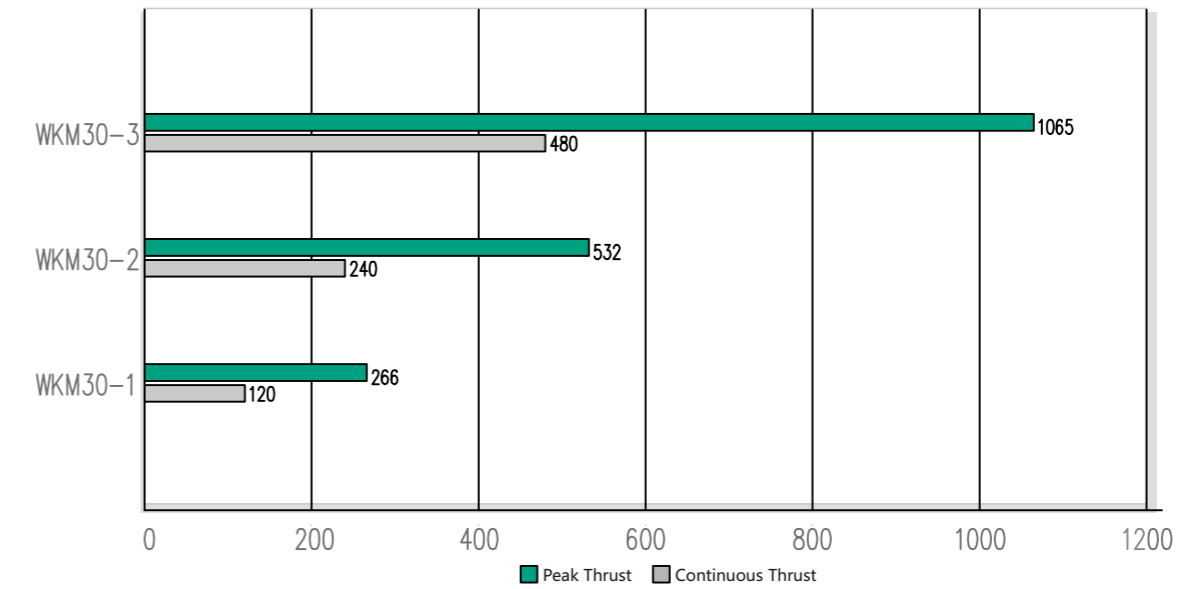
\* The movers of the WKM030 series can be freely paired with WKM030-L168, WKM030-L252, or WKM030-420.

• Stator Size



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

Thrust Graph



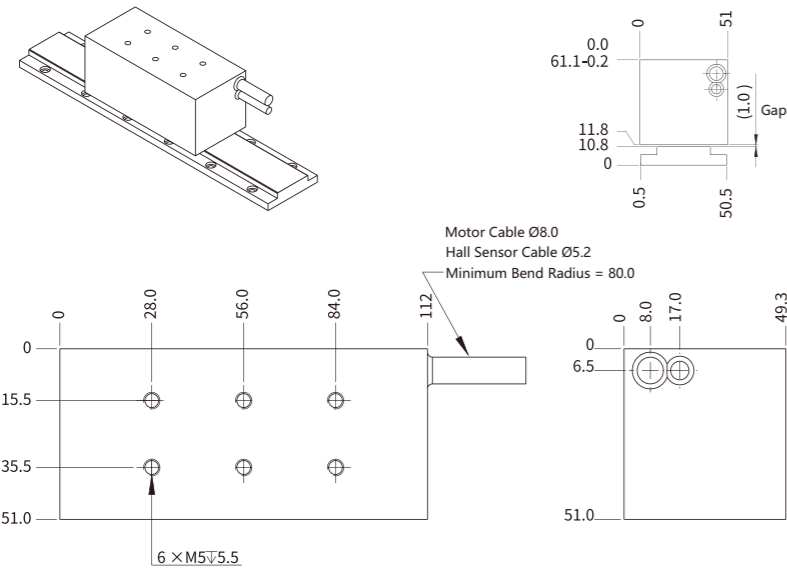
Specification Parameters

	Symbol	Unit	WKM30-1	WKM30-2	WKM30-3
Continuous Thrust	$F_c$	N	120	240	480
Continuous Current	$I_c$	$A_{rms}$	4.5	4.5	9
Peak Thrust [1s]	$F_p$	N	266	532	1065
Limiting Current [1s]	$I_u$	$A_{rms}$	13.5	13.5	27
Thrust Constant	$K_f$	$N/A_{rms}$	26.7	53.3	53.3
Attractive Force Between Mover & Stator	$F_a$	N	0.4	0.8	1.6
Max. Coil Temperature	$T_{max}$	$^{\circ}C$	100	100	100
Electrical Time Constant	$K_e$	ms	18	18	18
Resistance [Phase-to-Phase, 25 $^{\circ}C$ ]	$R_{25}$	$\Omega$	1.3	2.6	1.3
Inductance [Phase-to-Phase, 25 $^{\circ}C$ ]	$L$	mH	23	46	23
Pole Pitch	$2\tau$	mm	42	42	42
Back EMF Constant	$K_v$	$V_{rms}/[m/s]$	21.8	43.5	43.5
Continuous Thermal Power (Natural Cooling) @ 100 $^{\circ}C$	$P_{CN}$	W	53	106	211
Motor Constant [25 $^{\circ}C$ ]	$K_m$	$N/\sqrt{W}$	19.1	27	38.2
Thermal Dissipation Constant (Natural Cooling)	$R_{TH}$	$W/^{\circ}C$	0.7	1.4	2.8
Thermal Sensor Switch	-	-	PT100	PT100	PT100
Max. Operating Voltage	-	$V_{DC}$	600	600	600
Mover Mass	$M_f$	kg	1.5	2.7	5.3
Stator Unit Mass	$M_s$	kg/m	3.2	3.2	3.2

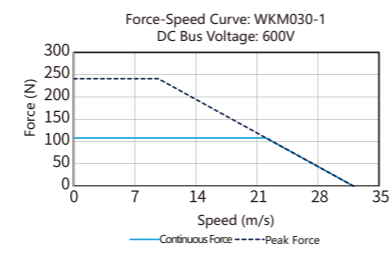
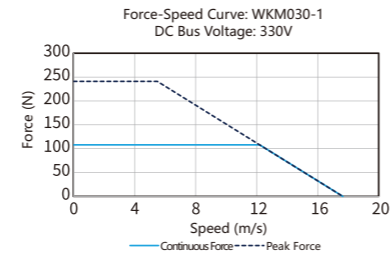
Note: All data in this table is measured at an ambient temperature of 25 $^{\circ}C$  and represents values obtained without forced cooling. Except for dimensional specifications, all other specifications have a tolerance of  $\pm 10\%$ . Our company reserves the right to make changes, and relevant parameters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

WKM030-1 Series: Dimensions

Please contact our sales team for lead time. The lead time is subject to change during special periods. Please consult our sales team.

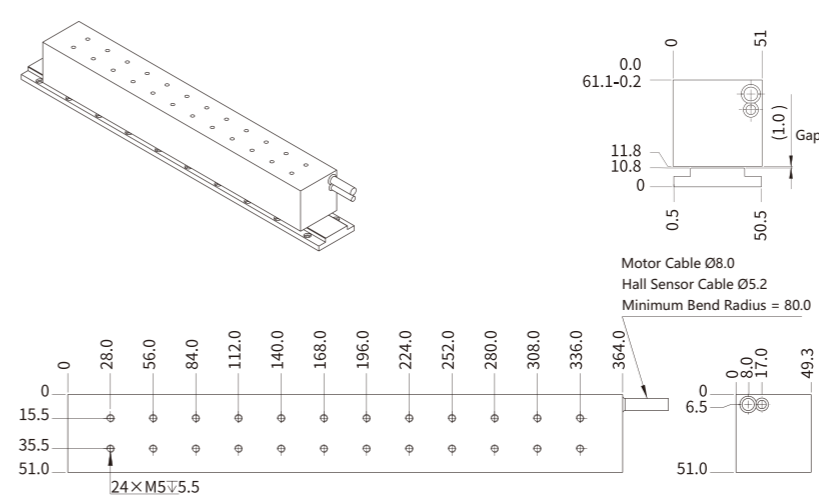


Force-Speed Curve

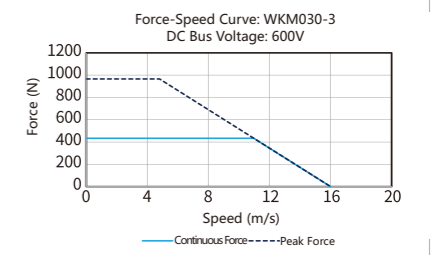
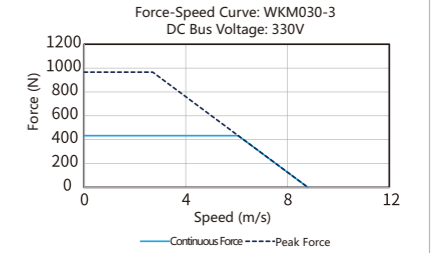


WKM030-3 Series: Dimensions

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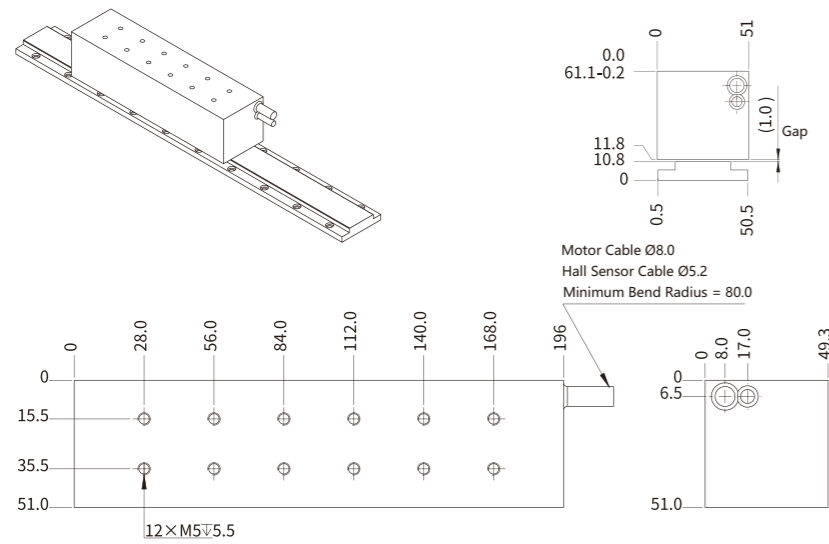


Force-Speed Curve

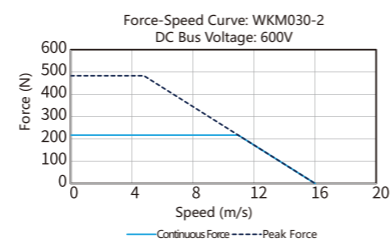
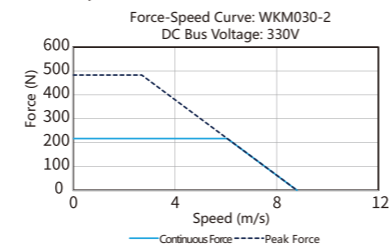


WKM030-2 Series: Dimensions

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Force-Speed Curve



MEMO