

Iron Core Linear Motor

- Iron Core Technology
- Ultra-low Cogging Force
- High Thrust
- High Rigidity



• Mover Model Number Designation System

WKM	150	A
Series	Mover Width	Mover Length
WKM	171mm	1 : 364mm    2: 700mm

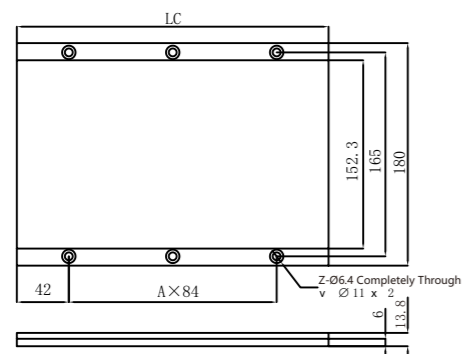
• Stator Model Number Designation System

DKM	150	-	L168
Series	Stator Width		Stator Length
DKM	150: 180mm		L168: 168mm L252: 252mm L420: 420mm

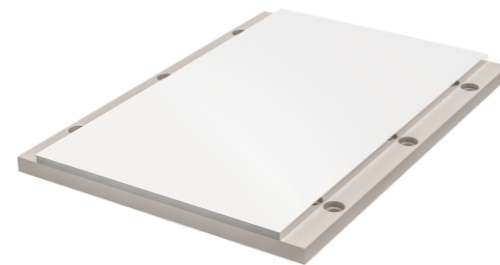
Stator Model	Length LC	Width	Height	A	Z	Pole Pitch	Weight
Unit	mm	mm	mm	PCS	PCS	mm	Kg/m
WKM150-168	168	180	13.8	1	4	42	17.4
WKM150-252	252	180	13.8	2	6	42	17.4
WKM150-420	420	180	13.8	4	10	42	17.4

\* The movers of the WKM150 series can be freely paired with WKM150-L168, WKM150-L252, or WKM150-420.

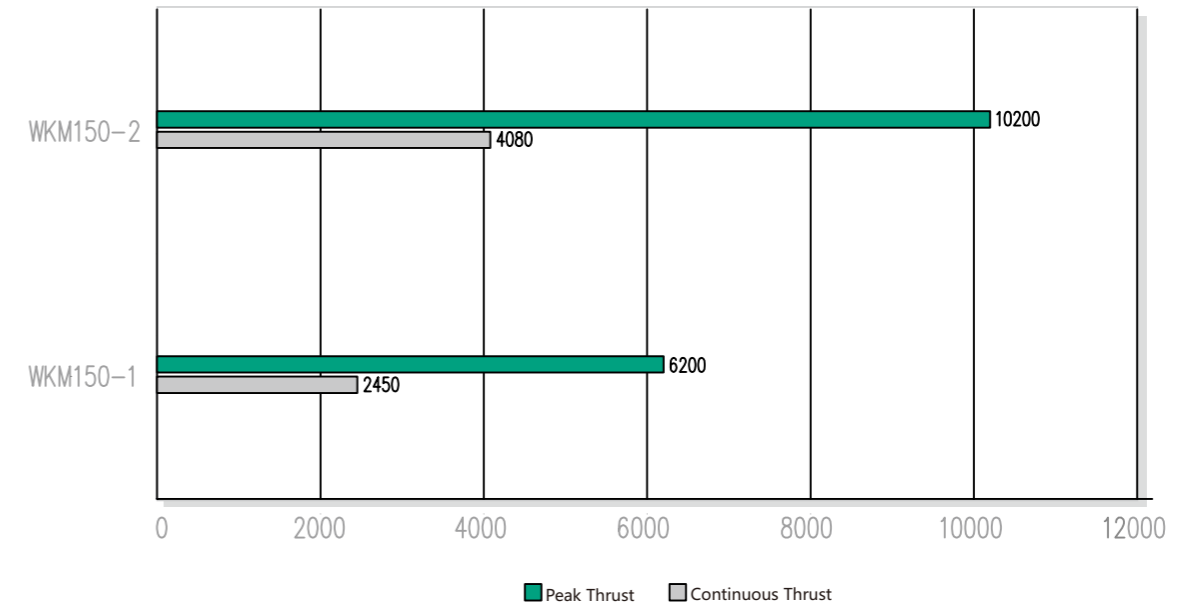
• Stator Size



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



Thrust Graph



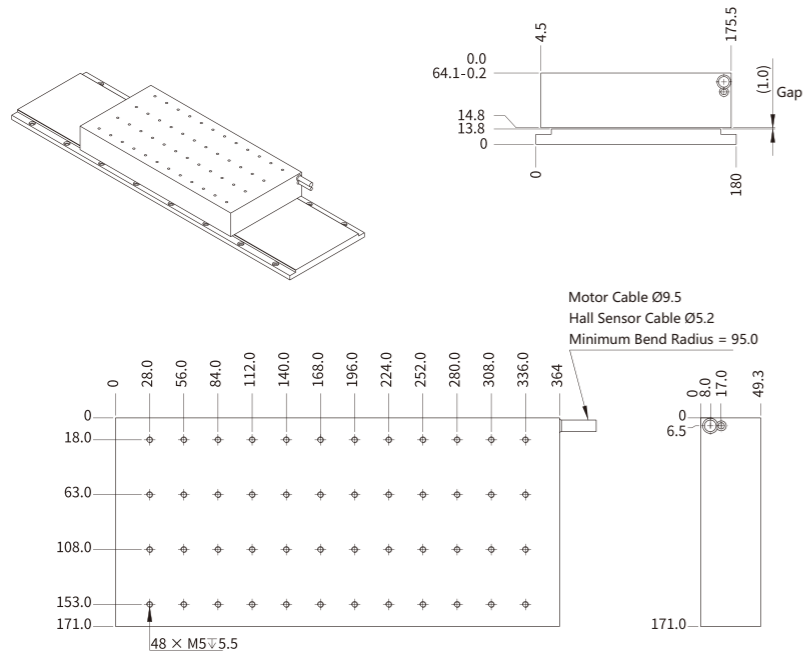
Specification Parameters

	Symbol	Unit	WKM150-1	WKM150-2
Continuous Thrust	$F_c$	N	2450	4080
Continuous Current	$I_c$	$A_{rms}$	18	30
Peak Thrust [1s]	$F_p$	N	6200	10200
Limiting Current [1s]	$I_u$	$A_{rms}$	46	75
Thrust Constant	$K_f$	$N/A_{rms}$	136	136
Attractive Force Between Mover & Stator	$F_a$	N	8	16
Max. Coil Temperature	$T_{max}$	$^{\circ}C$	100	100
Electrical Time Constant	$K_e$	ms	23	23
Resistance [Phase-to-Phase, 25 $^{\circ}C$ ]	$R_{25}$	$\Omega$	1	1
Inductance [Phase-to-Phase, 25 $^{\circ}C$ ]	$L$	mH	23	23
Pole Pitch	$2\tau$	mm	42	42
Back EMF Constant	$K_v$	$V_{rms}/[m/s]$	111	111
Continuous Thermal Power (Natural Cooling) @ 100 $^{\circ}C$	$P_{CN}$	W	600	900
Motor Constant [25 $^{\circ}C$ ]	$K_m$	$N/\sqrt{W}$	100	136
Thermal Dissipation Constant (Natural Cooling)	$R_{TH}$	$W/^{\circ}C$	7.5	11
Thermal Sensor Switch	-	-	PT100	PT100
Max. Operating Voltage	-	$V_{DC}$	600	600
Mover Mass	$M_f$	kg	20	39.5
Stator Unit Mass	$M_s$	kg/m	17.4	17.4

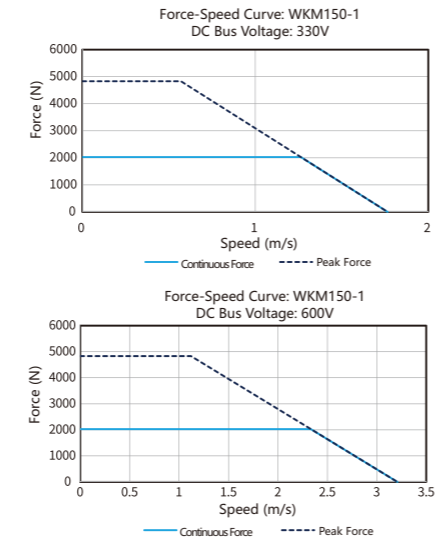
Note: All data in this table is measured at an ambient temperature of 25 $^{\circ}C$  and represents values obtained without forced cooling. Except for dimensional specifications, all other specifications have a tolerance of  $\pm 10\%$ . Our company reserves the right to make changes, and relevant parameters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

WKM150-1 Series: Dimensions

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



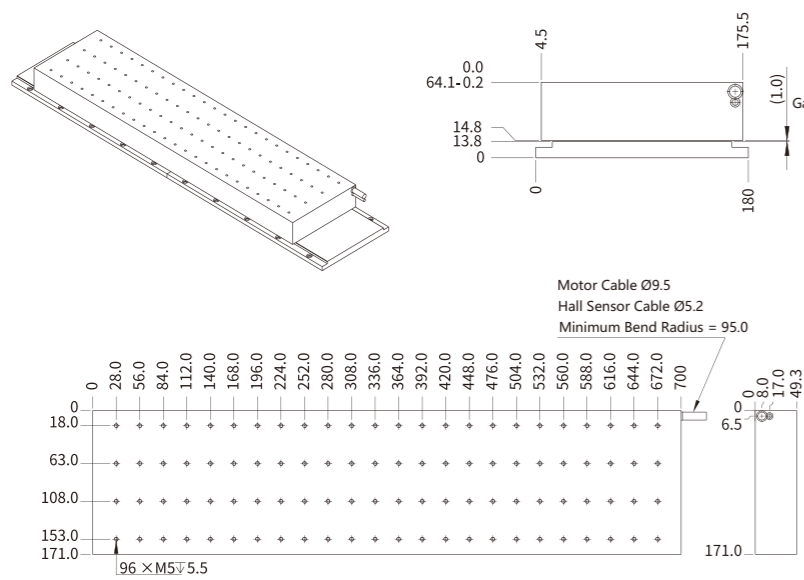
Force-Speed Curve



MEMO

WKM150-2 Series: Dimensions

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Force-Speed Curve

