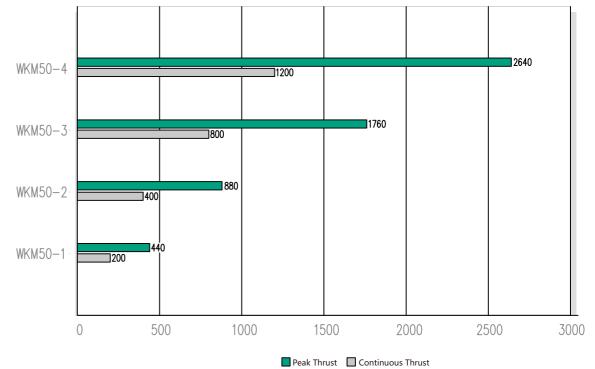
MAXWELL

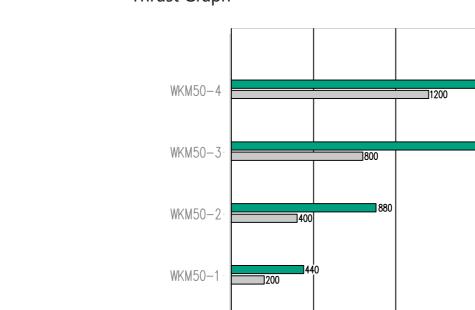


Specification Parameters

| | Symbol | Unit | WKM50-1 | WKM50-2 | WKM50-3 | WKM50-4 |
|--|------------------|-------------------------|---------|---------|---------|---------|
| Continuous Thrust | Fc | N | 200 | 400 | 800 | 1200 |
| Continuous Current | lc | Arms | 4.5 | 4.5 | 9 | 13.5 |
| Peak Thrust [1s] | F_P | N | 440 | 880 | 1760 | 2640 |
| Limiting Current [1s] | lu | Arms | 13.5 | 13.5 | 27 | 40 |
| Thrust Constant | Kf | N/Arms | 44.5 | 89 | 89 89 | |
| Attractive Force Between Mover & Stator | Fa | N | 0.7 | 1.3 | 2.7 | 4.2 |
| Max. Coil Temperature | T _{max} | °C | 100 | 100 | 100 | 100 |
| Electrical Time Constant | Ke | ms | 21 | 21 | 21 | 21 |
| Resistance [Phase-to-Phase, 25°C] | R25 | Ω | 1.7 | 3.4 | 1.7 | 1.2 |
| Inductance [Phase-to-Phase, 25°C] | L | mH | 37.5 | 75 | 37.5 | 25 |
| Pole Pitch | 2τ | mm | 42 | 42 | 42 | 42 |
| Back EMF Constant | K _v | V _{rms} /[m/s] | 36.3 | 72.6 | 72.6 | 72.6 |
| Continuous Thermal Power (Natural Cooling) @ 100°C | PcN | W | 69 | 138 | 276 | 438 |
| Motor Constant [25°C] | Km | N/√W | 27.8 | 39.4 | 55.7 | 66.3 |
| Thermal Dissipation Constant (Natural Cooling) | Rтн | W/°C | 0.9 | 1.9 | 3.7 | 5.8 |
| Thermal Sensor Switch | - | - | P100 | P100 | P100 | P100 |
| Max. Operating Voltage | - | V _{DC} | 600 | 600 | 600 | 600 |
| Mover Mass | Mf | kg | 2.2 | 4.1 | 8 | 11.8 |
| Stator Unit Mass | Ms | kg/m | 5 | 5 | 5 | 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 $\pm 10\%$. Our company reserves the right to make changes, and relevant parameters are subject to change without prior notice.





Linear Motor Specifications Overview

| Share and a second second | | | | | | | | | |
|--|------------------|-------------------------|---------|---------|---------|---------|--|--|--|
| | Symbol | Unit | WKM50-1 | WKM50-2 | WKM50-3 | WKM50-4 | | | |
| Continuous Thrust | Fc | N | 200 | 400 | 800 | 1200 | | | |
| Continuous Current | lc | Arms | 4.5 | 4.5 | 9 | 13.5 | | | |
| Peak Thrust [1s] | Fp | N | 440 | 880 | 1760 | 2640 | | | |
| Limiting Current [1s] | lu | Arms | 13.5 | 13.5 | 27 | 40 | | | |
| Thrust Constant | Kf | N/Arms | 44.5 | 89 | 89 | 89 | | | |
| Attractive Force Between Mover & Stator | Fa | N | 0.7 | 1.3 | 2.7 | 4.2 | | | |
| Max. Coil Temperature | T _{max} | °C | 100 | 100 | 100 | 100 | | | |
| Electrical Time Constant | Ke | ms | 21 | 21 | 21 | 21 | | | |
| Resistance [Phase-to-Phase, 25°C] | R25 | Ω | 1.7 | 3.4 | 1.7 | 1.2 | | | |
| Inductance [Phase-to-Phase, 25°C] | L | mH | 37.5 | 75 | 37.5 | 25 | | | |
| Pole Pitch | 2τ | mm | 42 | 42 | 42 | 42 | | | |
| Back EMF Constant | Kv | V _{rms} /[m/s] | 36.3 | 72.6 | 72.6 | 72.6 | | | |
| Continuous Thermal Power (Natural Cooling) @ 100°C | Pcn | W | 69 | 138 | 276 | 438 | | | |
| Motor Constant [25°C] | Km | N/√W | 27.8 | 39.4 | 55.7 | 66.3 | | | |
| Thermal Dissipation Constant (Natural Cooling) | R _{TH} | W/°C | 0.9 | 1.9 | 3.7 | 5.8 | | | |
| Thermal Sensor Switch | - | - | P100 | P100 | P100 | P100 | | | |
| Max. Operating Voltage | - | Voc | 600 | 600 | 600 | 600 | | | |
| Mover Mass | Mf | kg | 2.2 | 4.1 | 8 | 11.8 | | | |
| Stator Unit Mass | Ms | kg/m | 5 | 5 | 5 | 5 | | | |



• Mover Model Number Designation System

Linear Motor Specifications Overview

WKM

Series WKM

50

Mover Width 71mm

Mover Length

2:196mm 1:112mm

3:364mm 4:532mm

Α

• Stator Model Number Designation System

DKM

Series DKM

050 Stator Width

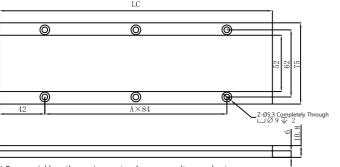
Stator Length 050: 75mm L168: 168mm L252: 252mm L420:420mm

L168

| Stator Model | Length LC | Width | Height | А | Z | Pole Pitch | Weight |
|--------------|--------------|-------|--------|-----|-----|------------|--------|
| Unit | mm | mm | mm | PCS | PCS | mm | Kg/m |
| WKM50-168 | 168 | 75 | 10.8 | 1 | 4 | 42 | 5.0 |
| WKM50-252 | 252 | 75 | 10.8 | 2 | 6 | 42 | 5.0 |
| WKM50-420 | 420 | 75 | 10.8 | 4 | 10 | 42 | 5.0 |

* The movers of the WKM050 series can be freely paired with WKM050-L168, WKM050-L252, or WKM050-420.

Stator Size





 $\mbox{\scriptsize \star}$ For special length requirements, please consult our sales team.

045

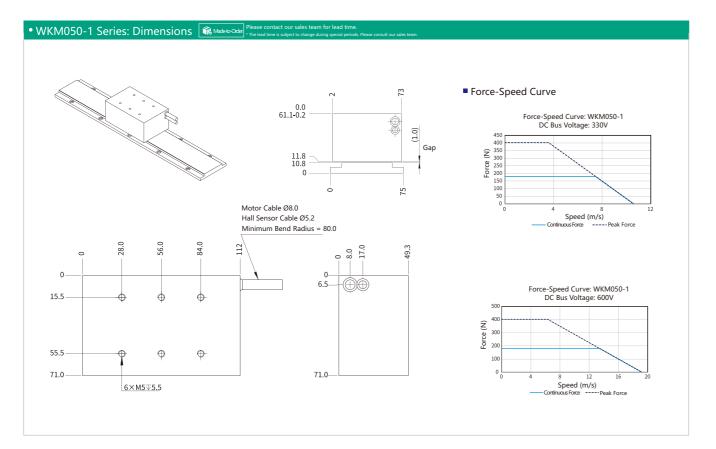
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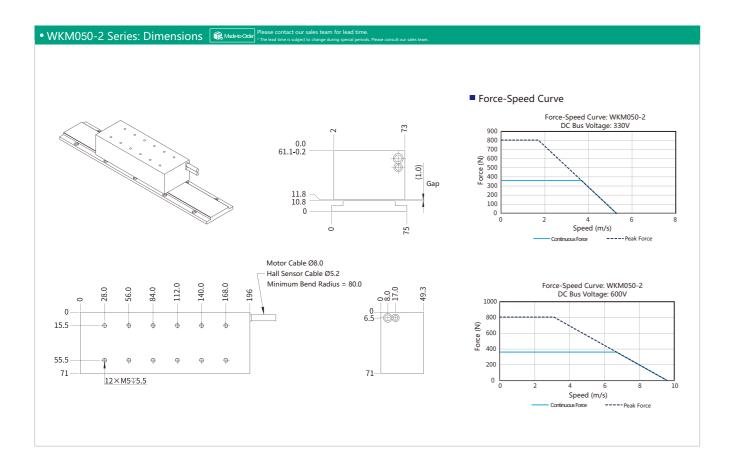
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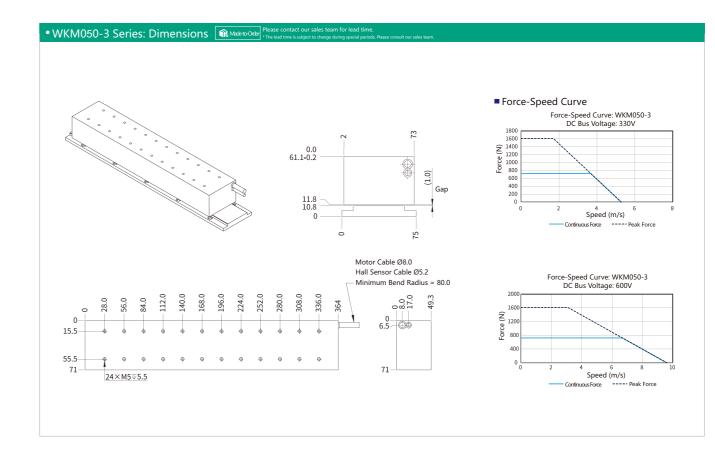
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Linear Motor Specifications Overview

