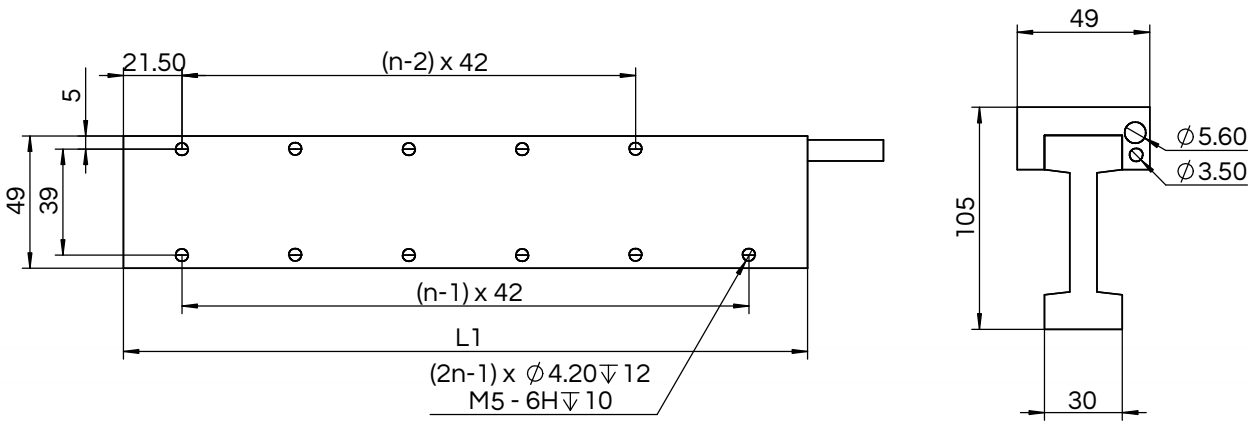
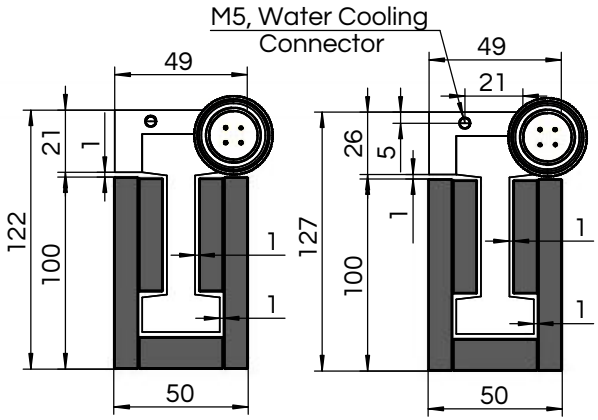


Motor Assembly



Forcer	Dimensional Variations	
	L_1	n
TUM5-S5	421	10
TUM5-S6	505	12
TUM5-S8	673	16

Technical data	Unit	TUM5-S5 Parallel	TUM5-S6 Parallel	TUM5-S8 Parallel
Continuous force	N	583.8	700.5	934
Continuous force (Water-cooled)	N	642.1	770.6	1027.4
Peak force	N	3502.5	4203	5604
Force constant ±10%	N/Arms	97.3	116.8	155.7
Back EMF constant	Vpeak/(m/s)	81.7	98.1	130.8
Motor constant at 25°C	N/Sqrt(w)	30.8	33.7	46.3
Resistance at 25°C	Ω	5	6	8
Inductance ±35%	mH	8.7	4.9	6.5
Electrical time constant	ms	1.7	1.7	1.7
Continuous current	Arms	6	6	6
Continuous current (Water-cooled)	Arms	6.6	6.6	6.6
Peak current	Arms	36	36	36
Continuous power dissipation at 100°C	W	360	432	407.3
Max. winding temperature	°C	100	100	100
Thermal dissipation constant	W/°C	3	3.6	3.4
Max. DC bus voltage	V	310	310	310
Magnetic period	mm	84	84	84
Attraction force	kN	0	0	0
Weight of forcer	kg	3.6	4.4	5.9
Length of forcer	mm	421	505	672
Unit mass of stator	kg/m	24.9	24.9	24.9
Insulation class	-	B		
Protection class	-	IP00		
Operating temperature	°C	0 to 45		
Storage temperature	°C	-15 to 75		

Note:
1.Specifications are measured at an ambient temperature of 25°C and depend on the heat dissipation conditions.
2.Resistance is measured with DC current and includes a standard cable length of 0.5 m.
3.Inductance is measured at a frequency of 1 kHz.
4.Specifications are subject to change without prior notice.
5.Standard cable lengths: 0.5 m and 3 m. Custom lengths on request.

Wiring Definition	Installation Instructions	Maintenance Instructions

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

TKL	SCALE	UNIT	Model	TUM5-S5/S6/S8	
	1:X	mm	Desc	Forcer unit	
	GENERAL TOLERANCE		Surface		DRN Tang
	Up to 6 / 6 / 30 / 30 / 120 / 120 / 300 / 300 / 600		DWG.NO		CHK Chen
	±0.1 / ±0.2 / ±0.3 / ±0.4 / ±0.5		Sheet	1-1	APPD Le
TKOOLLE MOTION CONTROL INTERNATIONAL CO.,LIMITED			DATE	17-Jul-25	