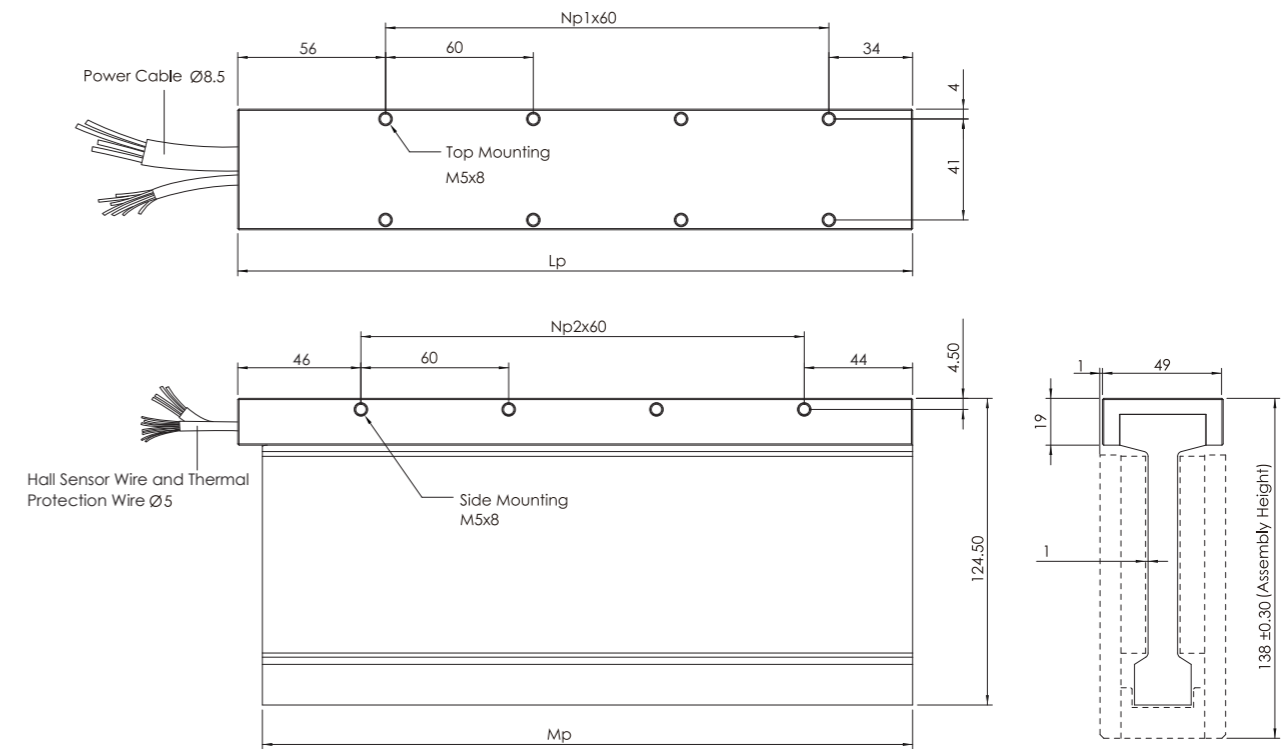


LM-PD SERIES
Linear Motion Technology

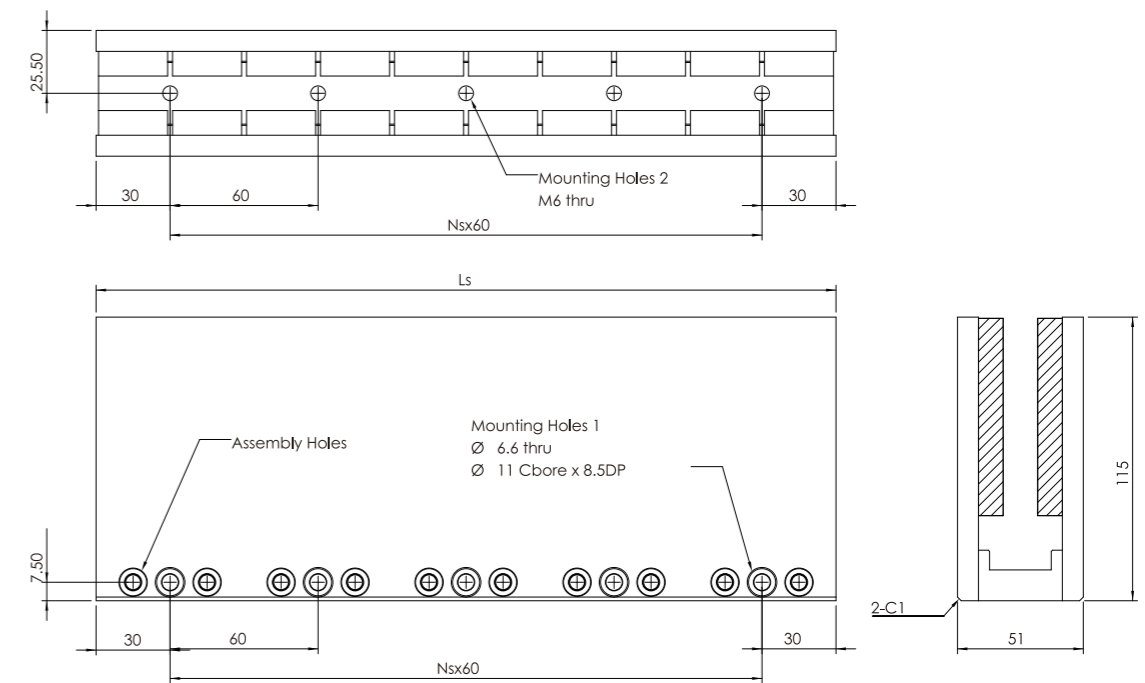
LM-PD Coil Assembly



LM-PD Coil Assembly Model

Coil Assembly Model	LM-PD2			LM-PD4			LM-PD6			LM-PD8			LM-PD10		
	W1	W2	W3	W1	W2	W3	W1	W2	W3	W1	W2	W3	W1	W2	W3
Performance															
Peak force (N)	1112			1779.2			2668.8			3558.4			4448		
Continuous force (N)	222.4			444.8			667.2			889.6			1112		
Peak power (W)	2016			4032			6848			8064			10080		
Continuous power (W)	126			252			378			504			630		
Mechanical															
Coil assembly length (mm)	154			274			394			514			634		
Coil assembly weight (kg)	1.3			2.23			3.14			4.11			5.1		
Magnet track weight (kg/m)	29.8			29.8			29.8			29.8			29.8		
Electrical cycle length (mm)	60			60			60			60			60		
Electrical															
Continuous current (Arms)	3	6	3	6.1	12.2	3	6.1	12	3	6.1	12.2	3	6	12.2	
Peak current (Arms)	12	24	12	24.4	48.8	12	24.4	48	12	24.4	48.8	12	24	48.8	
Force constant (N/A)	74.1	37.05	148.2	74.1	37	222.4	111.2	55.6	296.5	148.2	74.1	370.6	185.3	92.6	
Back EMF constant (V/m/s)	74.5	37.2	149	74.5	37.2	223.5	186.2	74.5	298	149	74.5	372.5	186.2	93.1	
Ph-Ph resistance @25°C(Ω)	14	3.5	28	7	1.75	42	10.5	4.67	56	14	3.5	70	17.5	4.3	
Ph-Ph inductance @25°C(mH)	49.6	12.4	99.2	24.8	6.2	148.8	37.2	16.5	198.4	49.6	12.4	248	62	15.5	
Motor constant (N/A/W)	19.7	19.7	27.9	27.9	27.9	34.3	34.3	34.3	39.5	39.5	39.5	44.3	44.3	44.3	

LM-SD Magnetic Way



LM-PD Coil Assembly

	Np1	Np2	Lp	Mp
LM-PD2	2	2	154	144
LM-PD4	4	4	274	264
LM-PD6	6	6	394	384
LM-PD8	8	8	514	504
LM-PD10	10	10	634	624

LM-SD Magnetic Way

	Ns	Ls
LM-SD0	1	120
LM-SD1	4	300
LM-SD2	7	480

OUTPUT CABLE (All cable standard length 400 mm)

Motor Wire Table			Hall Sensor Wire Table and Thermal Protection Wire Table					
Pin Number	Function	Cross section	Color	Function	Cable Dia.	Color	Function	Cable Dia.
1	U phase	1.0 mm ²	Pink	Hall A U phase	0.14 mm ²	Brown/Blue	Thermal sensor	0.14 mm ²
2	V phase	1.0 mm ²	Yellow	Hall B V phase	0.14 mm ²			
3	W phase	1.0 mm ²	Green	Hall C W phase	0.14 mm ²			
yellow/green	PE	1.0 mm ²	Grey	Hall IC + 5V	0.14 mm ²			
			White	GND	0.14 mm ²			

