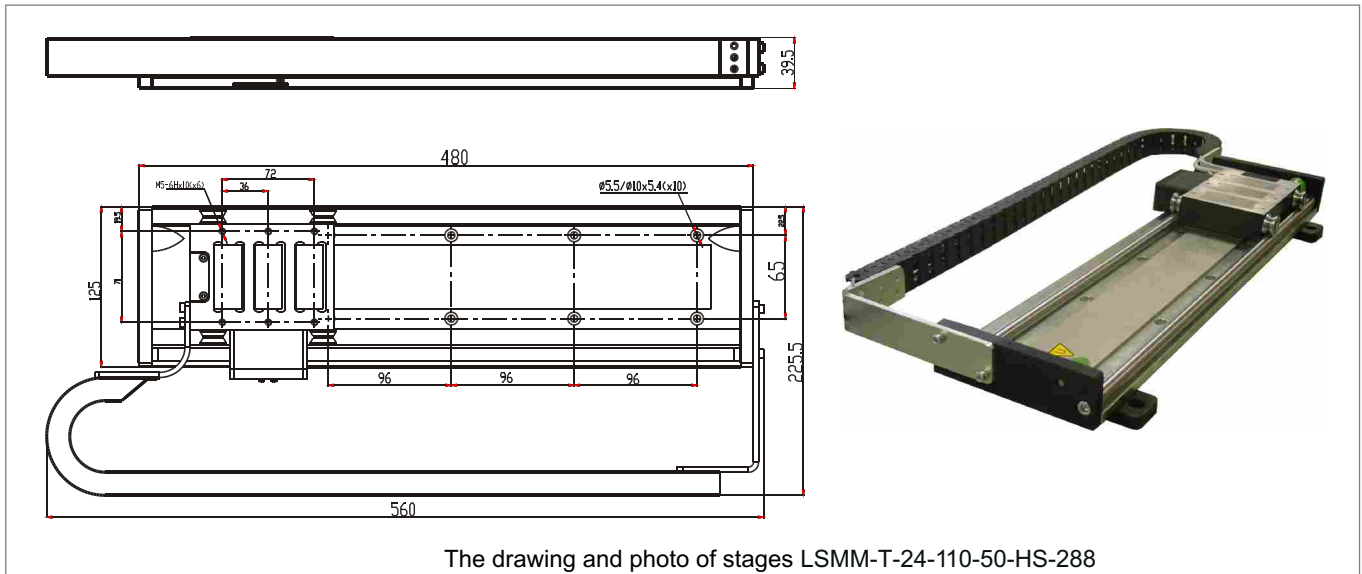


# LINEAR STAGE LSMM-T-24-110-50-C-HS



The drawing and photo of stages LSMM-T-24-110-50-HS-288

## Description:

The linear table on the basis of synchronous motor is used for make the co-ordinate systems with high dynamic characteristics. Structurally linear axis consists of a metal profile with built-in linear guideways, the linear synchronous motor LSM-P-24-110-50 and measuring system. The linear motor consist of forcer with electromagnetic modules and magnet way which are the table basis. The forcer simultaneously is an element of drive and contact platform for installation of loading or connection in more complex coordinate system.

## Advantages:

1. High dynamic characteristics, the maximum acceleration to 5g.
2. Direct drive (gearless) guarantee backlash-free and smooth travel for long distance.
3. Horizontal or vertical arrangement.
4. The maximum stroke up to 2,5 m.
5. The built-in position encoder (signal ~1Vpp).
6. The modular structure, easy assembling several stages to gantry system.

Name		Unit	LSMM-T-24-110x50-HS-L
Pole pair length 2P		Mm	24
Peak force	Fp	N	323
Continuous force air cooling	Fa	N	113
Peak force at Fp	Ip	Arms.	6,0
Continuos current at 120 C with air cooling at Fa and V=0	Ia	Arms	2,0
Maximum velocity at Fp and Us (Coil at 20°C)	Vp	M/s	2,6
Maximum velocity at Fa and Us.	Va	M/s	4,6
Константа усилия (обмотки 20°C)	K <sub>o</sub>	N/√W	18
Motor constant (coil at 20°C)	K <sub>u</sub>	V/(m/s)	45,5
Detent force	Fd	N	1,6
Electrical resistance at 20°C	R	Ohm	6,3
Inductance	L	MH	40,7
Recommended supply voltage DC	Us	B	220
Position accuracy with magnet encoder		micron/m	50*
Repeatability		Micron	5*
Resolution		Micron	1*
Weight of the carriage	m <sub>u</sub>	Kg	1,8
User payload		Kg	20
Stage weight for L=288		Kg	8,0

## Notes:

Available strokes: **LSMM-T-24-110x50-HS-S, S** =96\*n mm, where n=1...30;  
Stage length: L=S+192 mm

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