

Linear stages for Automation



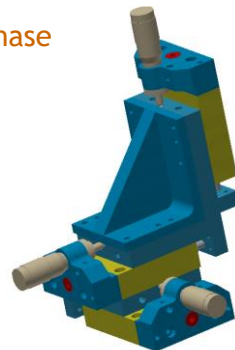
SABATO MICROTEC GmbH

A revolutionary product:

Precise, stable, absolute guaranty of maintaining the position after locking, without any torsion or displacement during locking phase, resistant to vibration and moving parts on it. These are the key-points that allow to strongly improve the efficiency of your machine or production environment, reducing the time of stop-machine. This device has been conceived in order to solve the stop-machine problems related to the loss of position due to machine vibrations and shock, a problem still open on the linear stages present on market. A stop-machine costs a lot in term of : stop-production, employee working-hours and employee frustration that must every time adjust the same position. With this product we are offering you a solution for these problems.

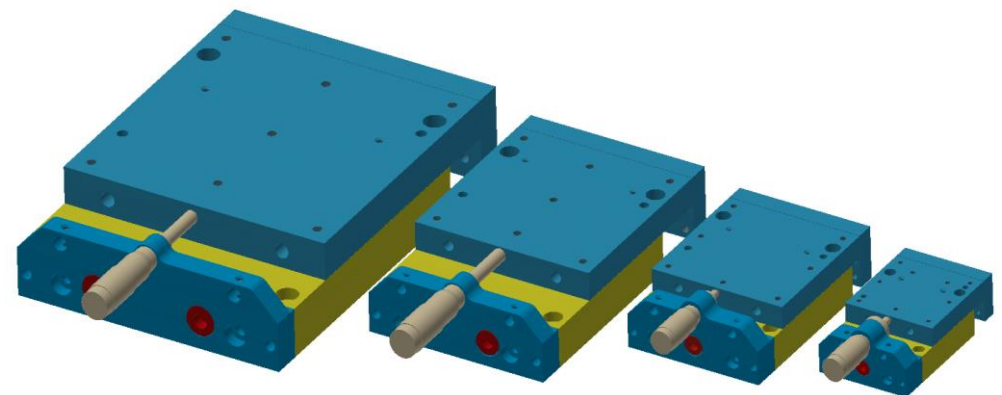
Advantages:

- No torsion or displacement during locking phase
- Positioning system with high resolution
- Position maintained after locking
- Innovative locking system
- High load capacity
- Modular conception
- Combinations x-xy-xz-xyz
- Precision & repeatability [$\pm 1\mu\text{m}$]



Product Features:

Made of cast iron GG 25, in the standard dimensions of 50x50 & 75x75 mm with a travel range of 13[mm] , then 100x100 & 150x150mm with a travel range of 25[mm]. The micrometric screw allows very high accuracy in adjustment, then the innovative locking system guarantees to keep the wanted position during locking phase and later on. The load capacity is much higher than the other traditional linear stage on the market (20[Kg] for the smaller size ,and 50[Kg] for the bigger size). The modular design allows you to invent your own cross table according to the most bizarre combinations, offering great flexibility in designing your application. We offer also the possibility to create for you customized solutions.

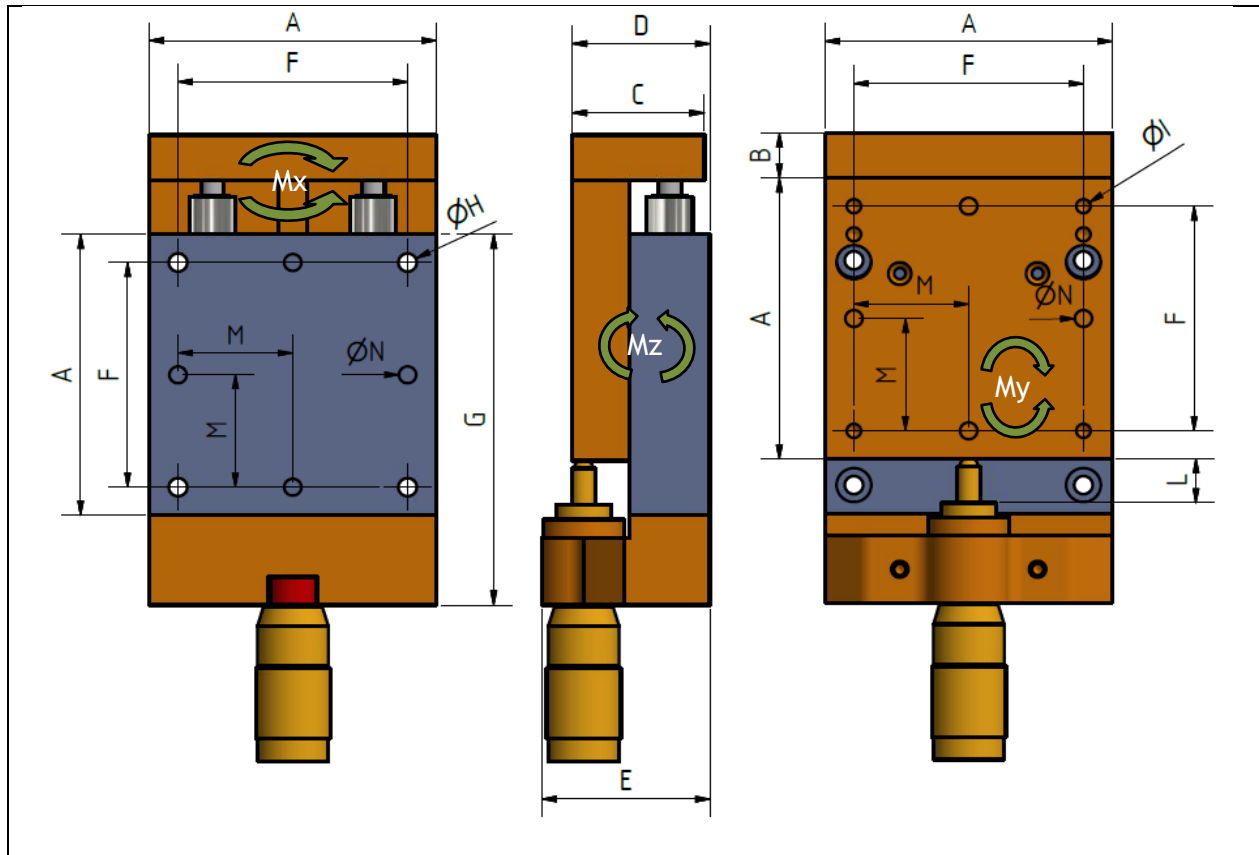


Applications Fields:

Automation - Optics - Assembly - Microassembly - Laser - Measurements - Tools positioning - Mechanical Machining

Mechanical dimensions of the linear stages [mm]:

Article number	L	A	B	C	D	E	F	G	H	I	M	N	Weight [Kg]
PR-02-050	13	50	8	23	24	29.3	40	66	3.3	M3	20	Ø 3 H7	0.6
PR-02-075	13	75	10	29	30	35	63	91	4.3	M4	31.5	Ø 4 H7	1.5
PR-02-100	25	100	12	35	36	39.5	84	122	5.3	M5	42	Ø 5 H7	3
PR-02-150	25	150	15	45	46	47.5	130	172	6.3	M6	65	Ø 6 H7	8.3



Load and Inertia Limits:

Article number	Maximum load [Kg]	Mx* [Nm]	My* [Nm]	Mz* [Nm]
PR-02-050	20	5	5	12
PR-02-075	20	25	20	30
PR-02-100	50	20	15	40
PR-02-150	50	50	50	50

* The moment of maximum torque applied to ensure accuracy of 1 micron was calculated with the system properly tightened

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