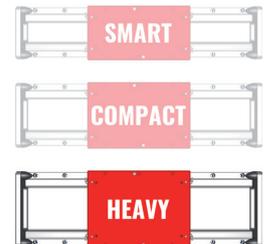
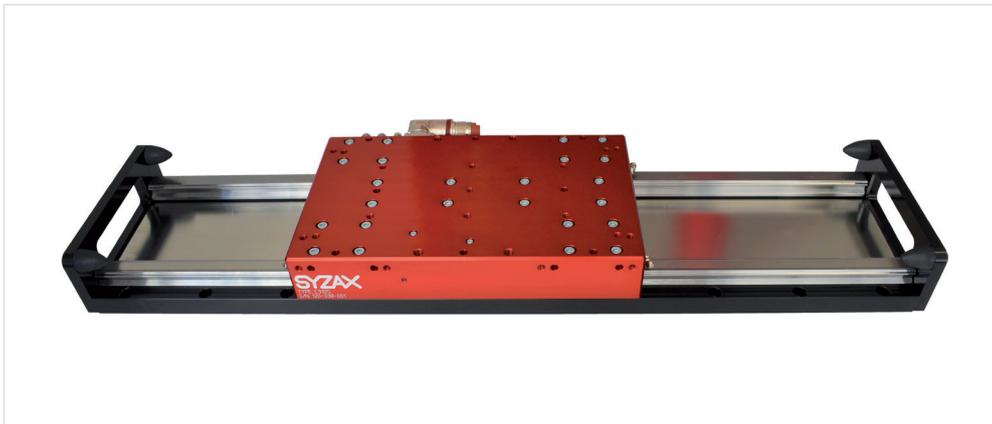




Modular linear axis system **SYZAX HEAVY**



Online
configurator
syzax.com

SYZAX HEAVY linear modules are the most robust of the **SYZAX** range. Designed for applications requiring high forces and stiffness in limited footprint, **SYZAX HEAVY** modules are available in 6 versions of carriages and performance.

DYNAMIC

ideal for «Pick & Place» cycles below the second.

RIGID

high tolerance to off-center loads.

COMPACT

the best in its class for a given range of performances.

MODULAR

easy mechanical and electrical integration, compatible with a wide range of market drives.

ARCOZ, official distributor for: North Italy • Southern Germany • Western Austria • Switzerland

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Electromechanical Data

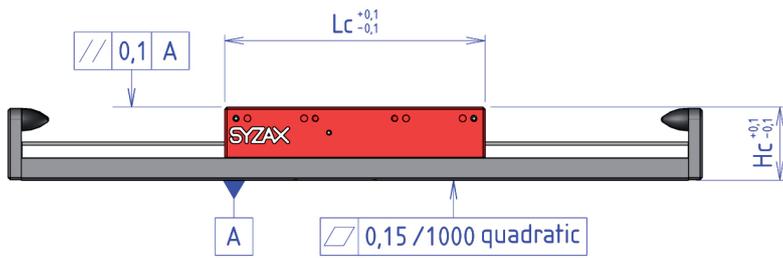
Carriage type	Unit	H1	H2	H3	H4	H5	H6
Peak force	N	450	675	900	1125	1350	1800
Continuous force	N	210	315	420	525	630	840
Peak current	A	6.5	6.5	13.1	13.5	19.6	26.2
Continuous current	A	2.3	2.3	4.5	4.7	6.8	9
Maximum speed	m/s	3.5	2.5	3.5	3.5	3.5	3.5

Guidance Features

Carriage type	Unit	H1	H2	H3	H4	H5	H6
Load rating Fy	N	22000	22000	22000	22000	22000	22000
Load rating Fz	N	73500	73500	73500	73500	73500	73500
Moment rating Mx	Nm	2330	2330	2330	2330	2330	2330
Moment rating My	Nm	3710	3710	3710	3990	4830	7260
Moment rating Mz	Nm	2630	2630	2630	2770	3220	3220

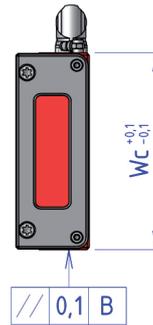
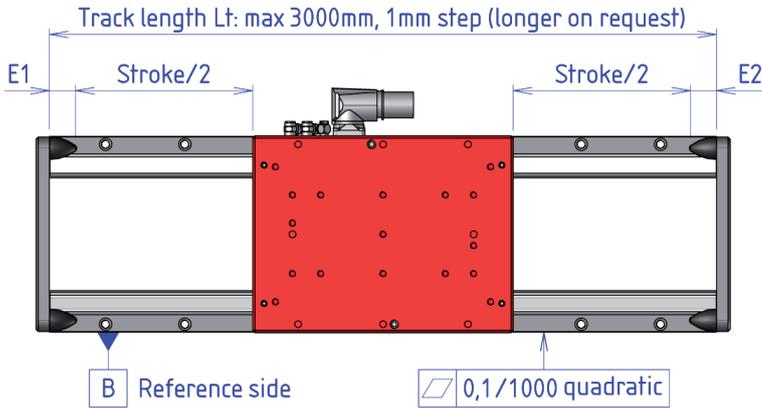
Syzax Heavy is available with 3 different types of encoders:

Encoders	Standard	High	Ultra high performance
Resolution	1 μm	0.25 μm	0.1 μm
Short range accuracy	$\pm 10 \mu\text{m}/10 \text{ mm}$	$\pm 2 \mu\text{m}/\text{mm}$	$\pm 0.5 \mu\text{m}/\text{mm}$
Accuracy before compensation	$\pm 40 \mu\text{m}/\text{m}$	$\pm 50 \mu\text{m}/\text{m}$	$\pm 20 \mu\text{m}/\text{m}$
Accuracy after compensation	$\pm 20 \mu\text{m}/\text{m}$	$\pm 10 \mu\text{m}/\text{m}$	$\pm 3 \mu\text{m}/\text{m}$



The maximum length of the module is 3 meters. The stroke selection is free, modulo 1 mm.

The effective stroke corresponds to the track length minus the carriage length and the thickness of the 2nd stops (standard stops E1 = E2 = 24 mm).



Other standard feature

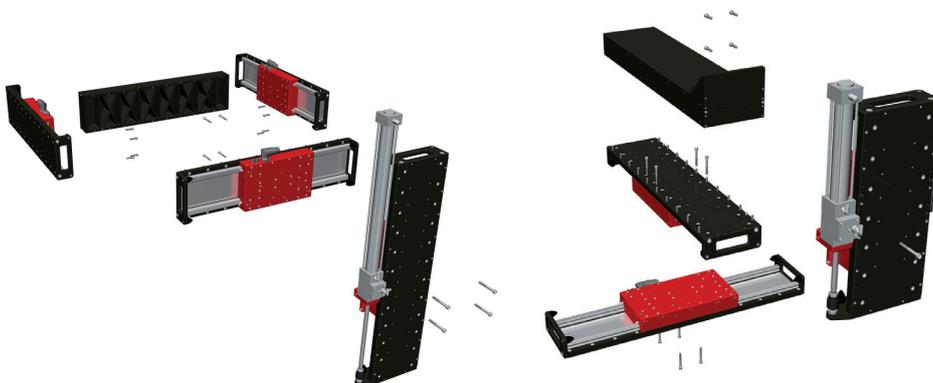
- Liquid cooling circuit
- Over/under pressure circuit
- 3-point lubrication

Available options

- Protective bellows
- Magnetic and pneumatic weight compensation

Dimensions SYZAX HEAVY

Carriage type	Unit	H1	H2	H3	H4	H5	H6
Carriage Length Lc	mm	300	300	300	330	376	508
Carriage Width Wc	mm	190	190	190	190	190	190
Carriage Height Hc	mm	65	65	65	65	65	65



Multiple and easy modules combinations

The modules have native interfaces to build cartesian robots corresponding to the actual needs of specific targeted applications.