

**SYZAX SMART** linear modules complement the HEAVY and COMPACT ranges with smaller dimensions and forces. **SYZAX SMART modules benefit from the same monolithic and elegant design** as the **SYZAX HEAVY** and **COMPACT** and are available in 4 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.

### Electromechanical Data

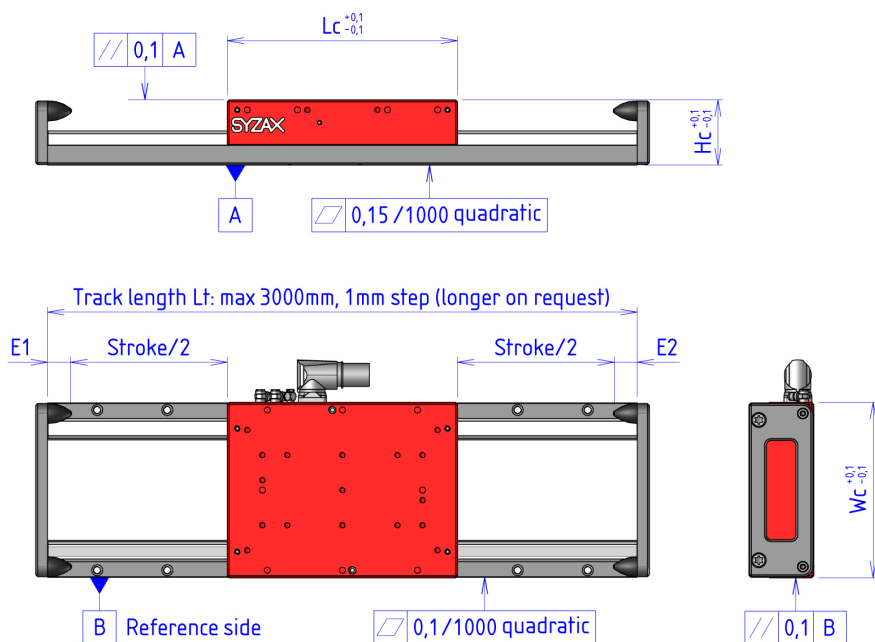
Carriage type	Unit	S1	S2	S3	S4
Peak force	N	120	240	480	720
Continuous force	N	60	120	240	360
Peak current	A	7.3	7.3	12	12
Continuous current	A	3	3	4.8	4.8
Maximum speed	m/s	1	1	1	1

### Guidance Features

Carriage type	Unit	S1	S2	S3	S4
Load rating Fy	N	7610	7610	7610	7610
Load rating Fz	N	21470	21470	21470	21470
Moment rating Mx	Nm	720	720	720	720
Moment rating My	Nm	1100	1100	1750	2550
Moment rating Mz	Nm	600	600	860	1210

**SYZAX SMART** is available with 3 different types of encoders:

Encoders	Standard	High performance	Ultra high performance
Resolution	1 $\mu$ m	0.25 $\mu$ m	0.1 $\mu$ m
Short range accuracy	$\pm 10 \mu$ m/10 mm	$\pm 2 \mu$ m/mm	$\pm 0.5 \mu$ m/mm
Accuracy before compensation	$\pm 40 \mu$ m/m	$\pm 50 \mu$ m/m	$\pm 20 \mu$ m/m
Accuracy after compensation	$\pm 20 \mu$ m/m	$\pm 10 \mu$ m/m	$\pm 3 \mu$ m/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 2 end stops (standard stops E1 = E2 = 24 mm).



### Dimensions SYZAX SMART

Carriage Type	Unit	S1	S2	S3	S4
Carriage Length Lc	mm	200	200	278	374
Carriage Width Wc	mm	130	130	130	130
Carriage Height Hc	mm	55	55	55	55

### Other standard features

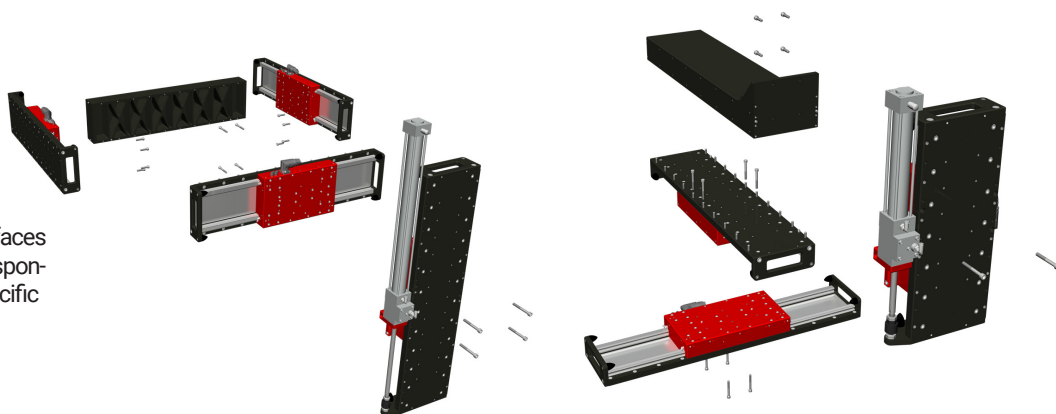
- Over/under pressure circuit
- 3-point lubrication

### Available Options

- Protective bellows
- Magnetic and pneumatic weight compensation

### Multiple and easy modules combinations

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



### Direct marketing in:

- France
- Belgium

**OPUS**

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