

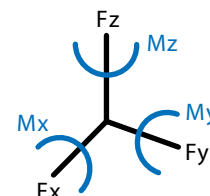
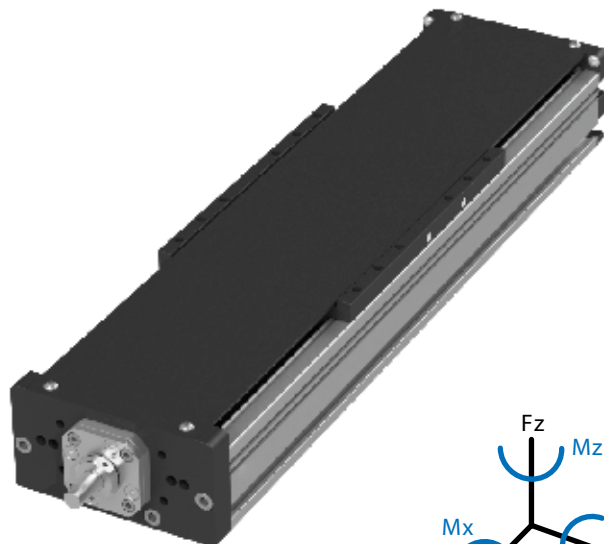
**MODELLO / MODEL**  
**AEV120LB**

**INFORMAZIONI TECNICHE / TECHNICAL INFORMATION**

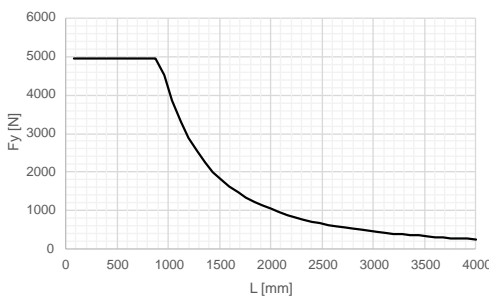
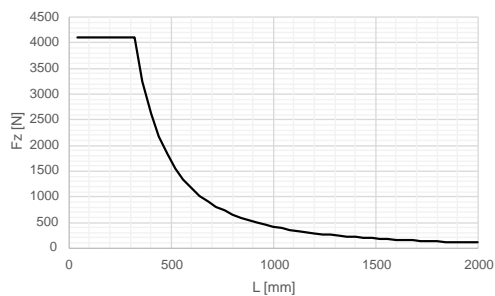
|  |                    |              |
|--|--------------------|--------------|
| Massa base unità (corsa zero)<br><i>Unit's base mass (zero stroke)</i> | [Kg]               | 4,62         |
| Massa lineare unità<br><i>Unit's linear mass</i>                       | [Kg/100mm]         | 0,9          |
| Massa carro<br><i>Carriage's mass</i>                                  | [Kg]               | 1,58         |
| Ripetibilità a vuoto<br><i>Unloaded repeatability</i>                  | [mm]               | 0,02-0,05    |
| Classe precisione vite<br><i>Ballscrew accuracy class</i>              |                    | C5-C7        |
| Diametro vite<br><i>Ball screw diameter</i>                            | [mm]               | 15           |
| Passo vite<br><i>Ball screw pitch</i>                                  | [mm]               | 5-10-16      |
| Velocità massima*<br><i>Maximum velocity</i>                           | [mm/s]             | rif. pg. 243 |
| Forza assiale massima**<br><i>Maximum axial force</i>                  | [N]                | rif. pg. 243 |
| Momento principale d'inerzia Y<br><i>Principal moment of inertia Y</i> | [cm <sup>2</sup> ] | 41           |
| Momento principale d'inerzia Z<br><i>Principal moment of inertia Z</i> | [cm <sup>2</sup> ] | 430          |

\* I valori sono da considerarsi indicativi.  
La velocità massima è funzione della lunghezza libera della vite e del carico.  
Prestazioni superiori sono possibili e vanno verificate col nostro ufficio tecnico.  
*Values should be considered as an indication.  
Maximum speed depends on free length of the ball screw and load condition.  
Higher performance are possible. Please contact our technical department.*

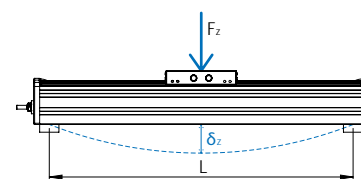
\*\* In funzione della direzione di applicazione del carico.  
*Based on load direction.*



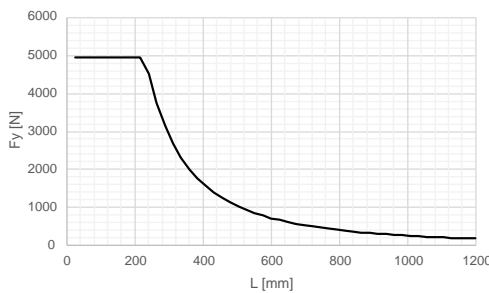
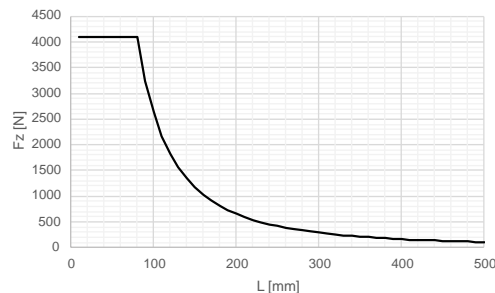
**CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD**



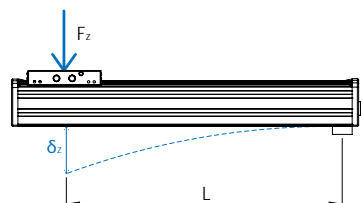
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.  
*Maximum load in isostatic condition centrally loaded.*



**CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD**

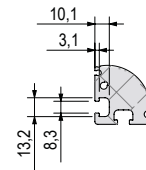
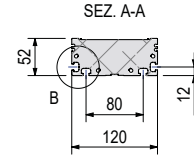
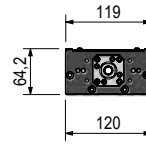
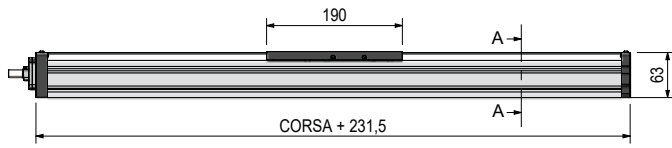


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.  
*Maximum load in an isostatic cantilever loaded condition.*

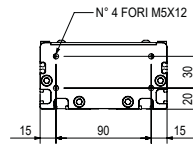
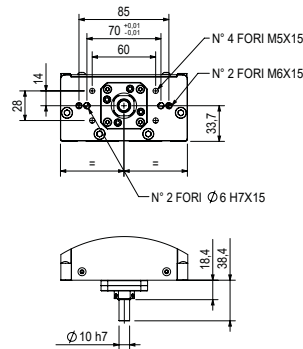
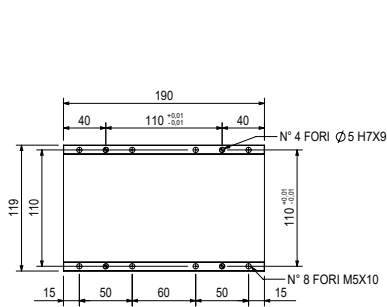


Si raccomanda di non superare i limiti dei grafici per non avere malfunzionamento dell'unità, peggioramento delle prestazioni o eccessiva usura.  
*We recommend not to exceed the maximum values to avoid lower performance, a reduced reliability and a big wear of the components.*

**DIMENSIONI / DIMENSIONS**



DET. B  
SCALA 1 : 5



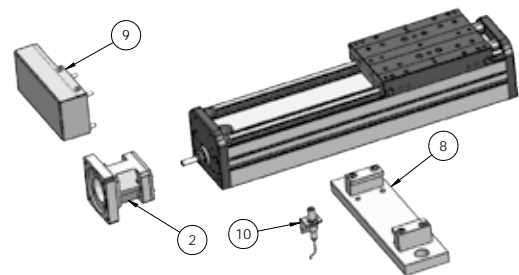
**Tipologia interfaccia motore**  
**Engine interface type**  
Kit IF1

2 9

| Accessori<br>Accessories                        | Cinghia<br>Belt | Vite<br>Ball screw | Crema<br>Rack and pinion |
|---|-----------------|--------------------|--------------------------|
| ① Riduttore<br>Gearbox                          | x               | x                  | x                        |
| ② Kit assiale<br>Axial kit                      | x               | x                  | x                        |
| ③ Calettatore<br>Keyless Locking Device         | x               |                    | x                        |
| ④ Albero di torsione<br>Torsion shaft           | x               |                    | x                        |
| ⑤ Carro aggiuntivo<br>Additional carriage       | x               |                    | x                        |
| ⑥ Giunto elastico<br>Elastic coupling           | x               |                    |                          |
| ⑦ Freno stazionamento<br>Standing brake         | x               |                    |                          |
| ⑧ Elemento fissaggio/tassello<br>Fastening/plug | x               | x                  | x                        |
| ⑨ Kit rinvio<br>Transfer box                    | x               | x                  |                          |
| ⑩ Supporto sensore/Camma<br>Sensor bracket/Cam  | x               | x                  | x                        |

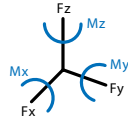
Le Unità Damo sono disponibili con una vasta gamma di accessori e optional specifici concepiti per facilitare la realizzazione e installazione di sistemi monoasse e multiasse.

All Units are available with a wide range of accessories and specific options designed to simplify the construction and installation of single-axis and multi-axis systems.



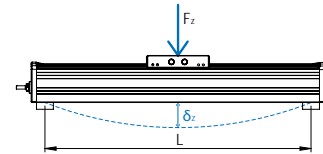
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.  
The technical department is available for the evaluation of special applications and for detailed analysis.

**MODELLO / MODEL**  
**AEV120LB**

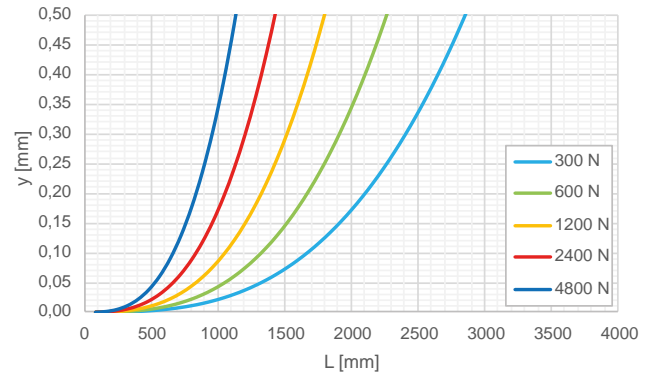
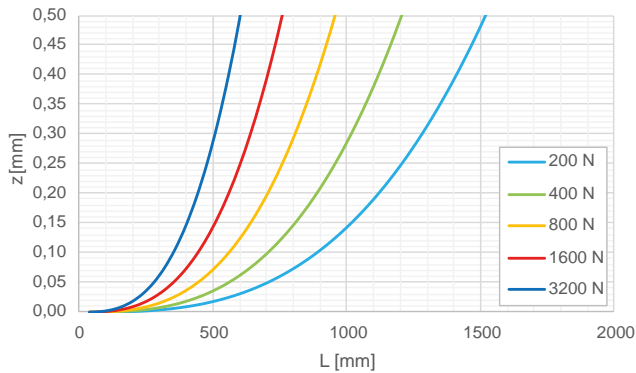


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezziera. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

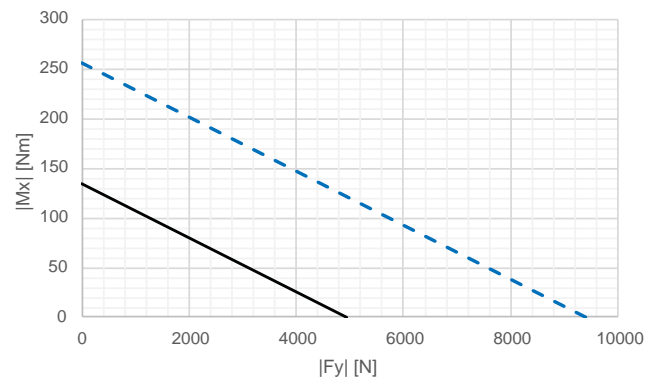
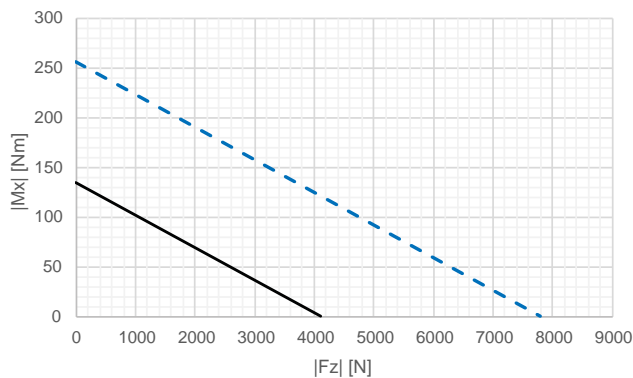
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



**DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION**



**LIMITI STRUTTURALI / STRUCTURAL LIMITS**

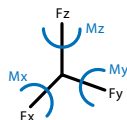


— Limite rottura a fatica: vita stimata superiore ai  $10 \times 10^6$  cicli col 99% probabilità. I grafici non possono essere combinati e valgono per:  $|M_x| \leq 0.1 |M_y|$  e  $|M_x| \leq 0.1 |M_z|$ .  
Fatigue limit: estimated lifetime higher than  $10 \times 10^6$  cycles with 99% probability. Charts cannot be combined and are valid for:  $|M_x| \leq 0.1 |M_y|$  and  $|M_x| \leq 0.1 |M_z|$ .

--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.  
Emergency stop max 100 times during service life.

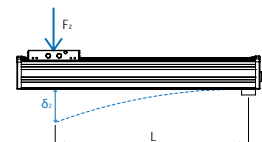
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.  
In case of combined stress contact our technical department.

**MODELLO / MODEL**  
**AEV120LB**

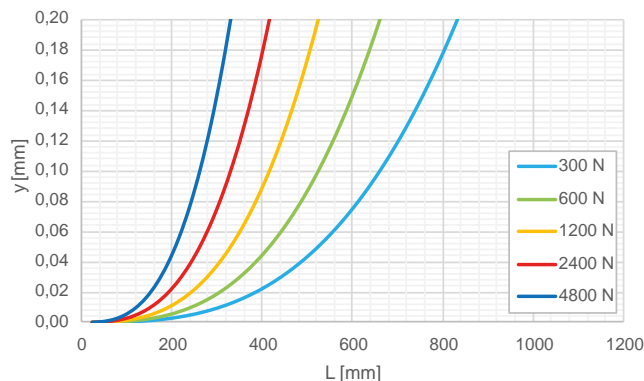
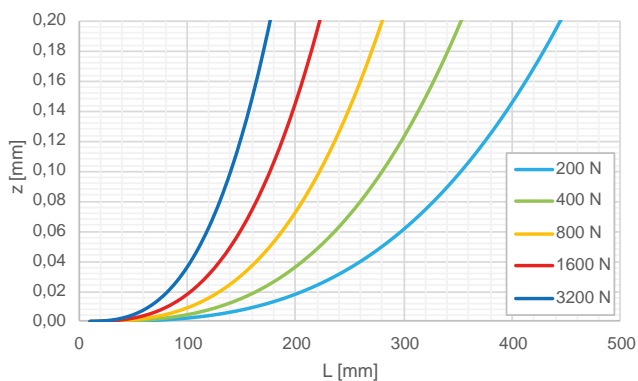


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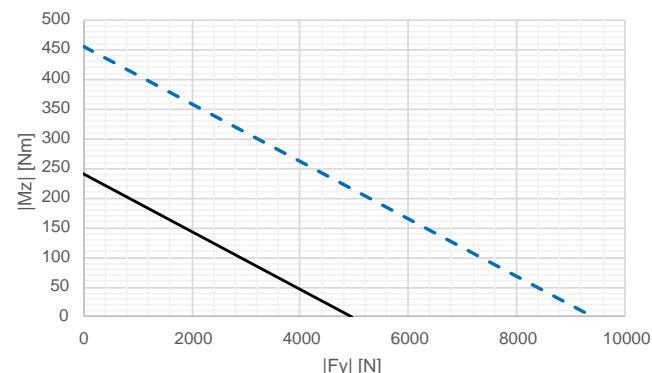
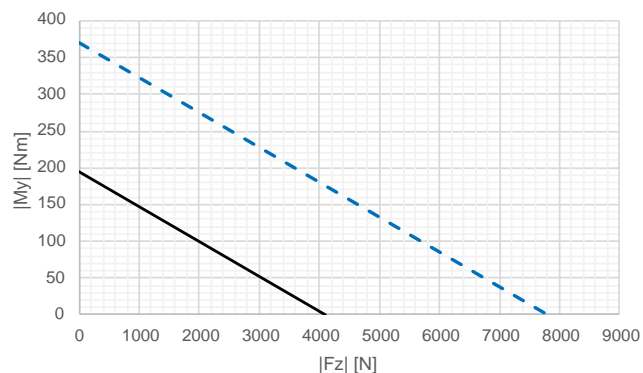
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



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