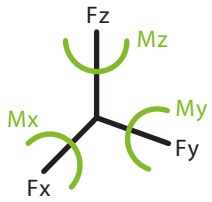
MODELLO / MODEL

AMC180LL

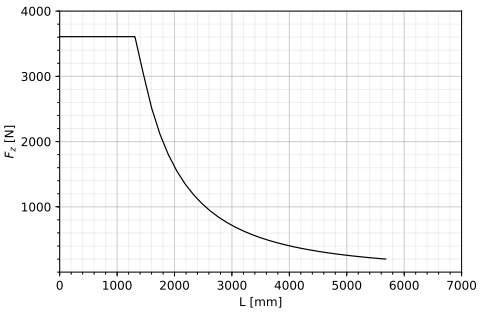
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

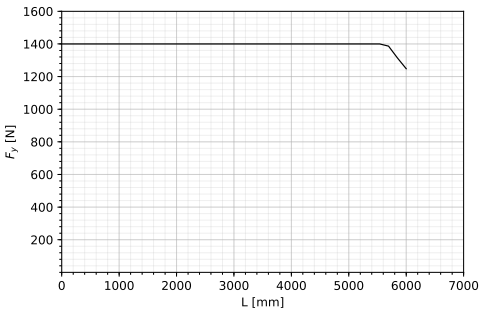
Massa base unità (corsa zero) *Unit's base mass (zero stroke)*	[Kg]	29,9
Massa lineare unità *Unit's linear mass*	[Kg/100mm]	2,17
Massa carro *Carriage's mass*	[Kg]	14,2
Velocità massima* *Maximum velocity*	[m/s]	3
Ripetibilità a vuoto *Unloaded repeatability*	[mm]	0,1
Sviluppo puleggia *Pulley's circumference*	[mm/giro]	220
Taglia cinghia *Belt's size*	[-]	50 AT 10
Forza massima di trazione sulla cinghia* *Maximum traction force on belt*	[N]	8590
Momento principale d'inerzia Y *Principal moment of inertia Y*	[cm⁴]	678
Momento principale d'inerzia Z *Principal moment of inertia Z*	[cm⁴]	4727

* I valori sono da considerarsi indicativi.
Prestazioni superiori sono possibili e vanno verificate col nostro ufficio tecnico.
Values should be considered as an indication.
Higher performance are possible. Please contact our technical department.

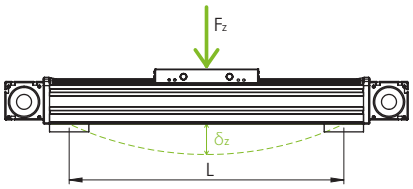


CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD





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



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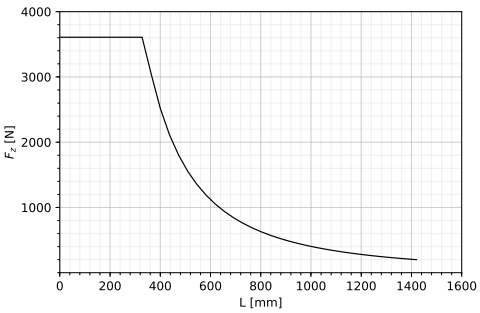
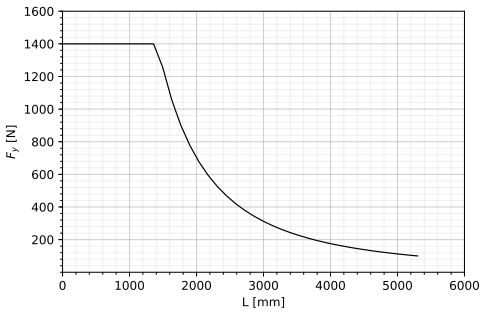
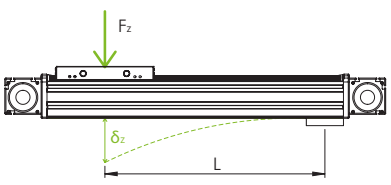




Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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.

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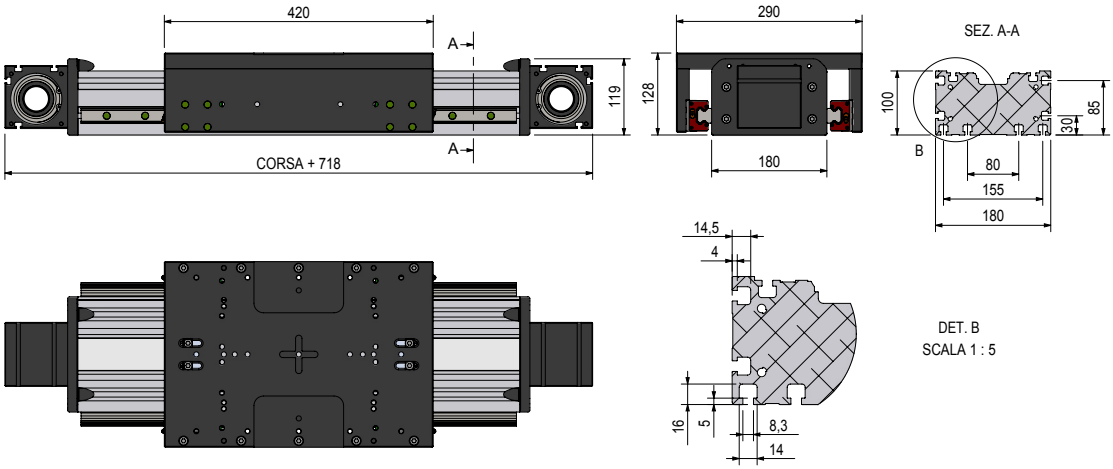
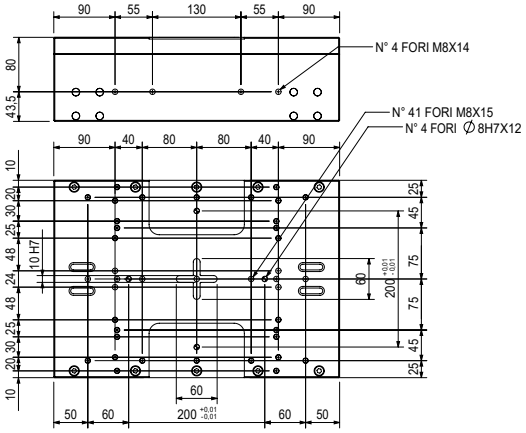
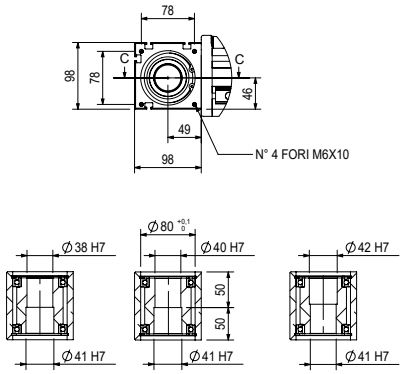
DIMENSIONI / DIMENSIONS

CAD files: https://configurator.damosrl.com







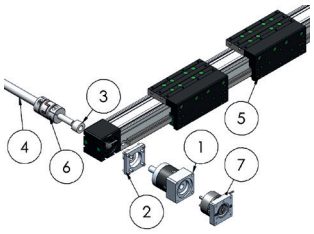
Tipologia interfaccia riduttore (2) (9)
Gearbox interface type
Kit IF30

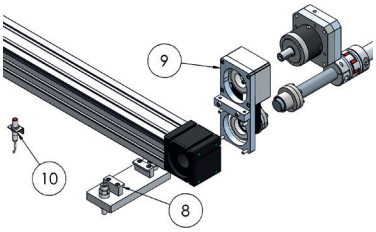
Configurazioni puleggia
Pulley configurations

Accessori ***Accessories***	**Cinghia** ***Belt***	**Vite** ***Ballscrew***	**Cremagliera** ***Rack and pinion***
(1) Riduttore *Gearbox*	x	x	x
(2) Kit assiale *Axial kit*	x	x	x
(3) Calettatore *Keyless Locking Device*	x		x
(4) Albero di torsione *Torsion shaft*	x		x
(5) Carro aggiuntivo *Additional carriage*	x		x
(6) Giunto elastico *Elastic coupling*	x		
(7) Freno stazionamento *Standing brake*	x		
(8) Elemento fissaggio/tassello *Fastening/plug*	x	x	x
(9) Kit rinvio *Transfer box*	x	x	
(10) Supporto sensore/Camma *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.

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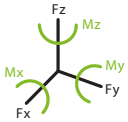
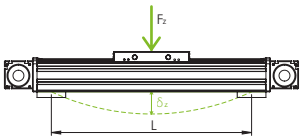
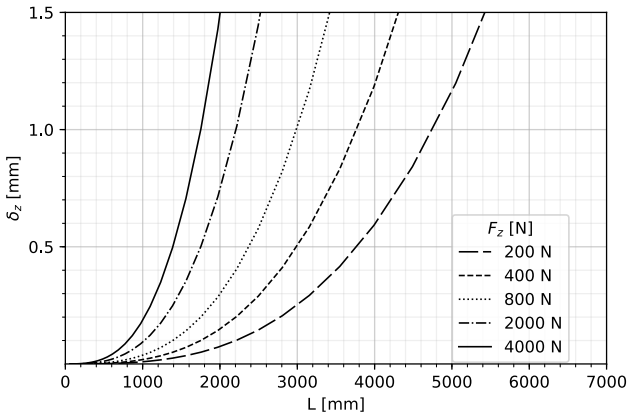


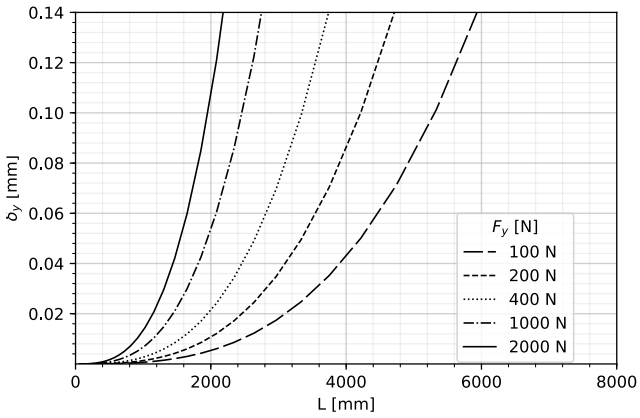
Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

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

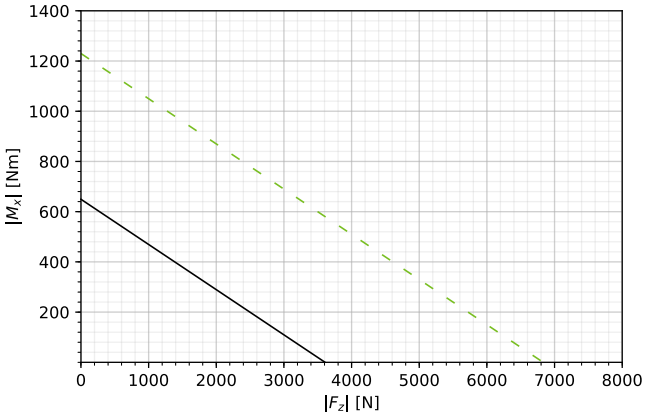


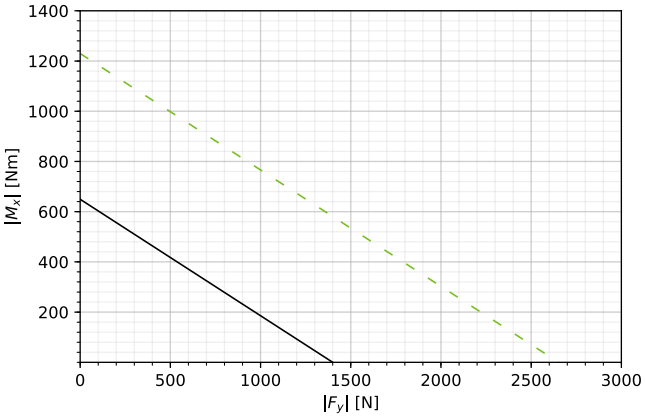
DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION





LIMITI STRUTTURALI /STRUCTURAL LIMITS





— Limite rottura a fatica: vita stimata superiore ai $10x10^6$ cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: |Mx| <= 0.1 |My| e |Mx| <= 0.1 |Mz|.
Fatigue limit: estimated lifetime higher than $10x10^6$ cycles with 99% probability. Charts cannot be combined and are valid for: |Mx| <=0.1 |My| and |Mx| <=0.1 |Mz|.

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

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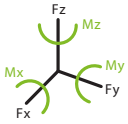

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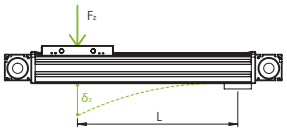

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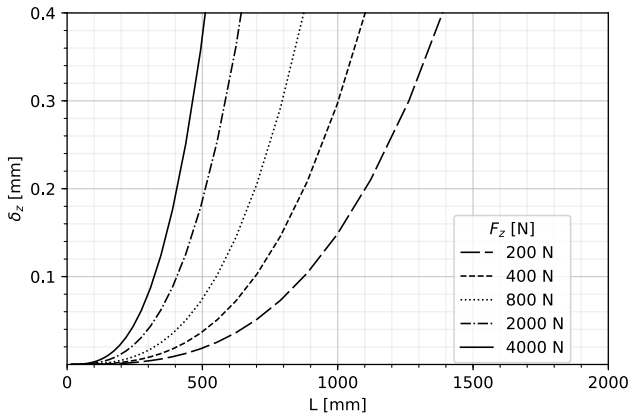

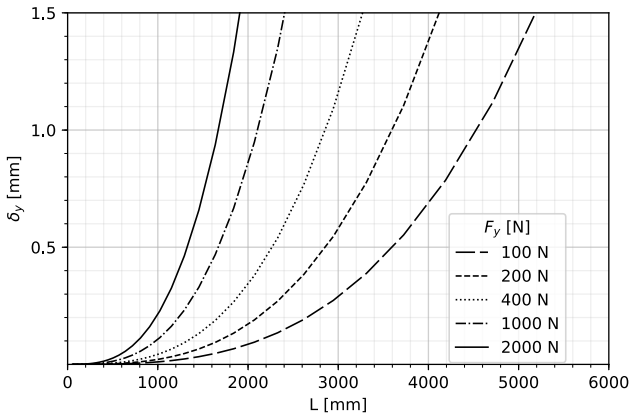

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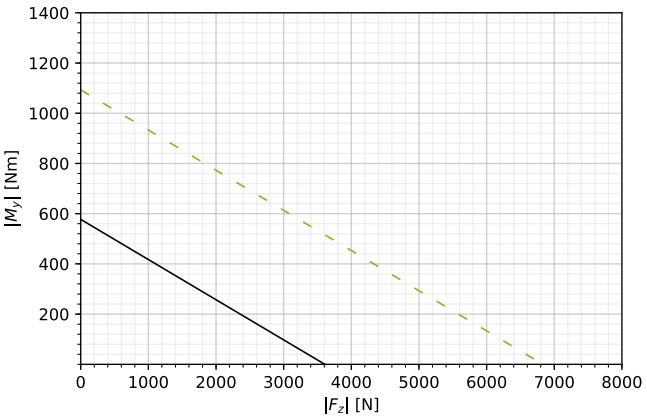

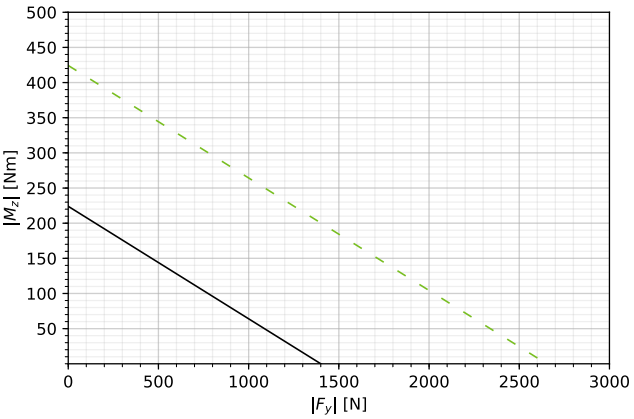

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