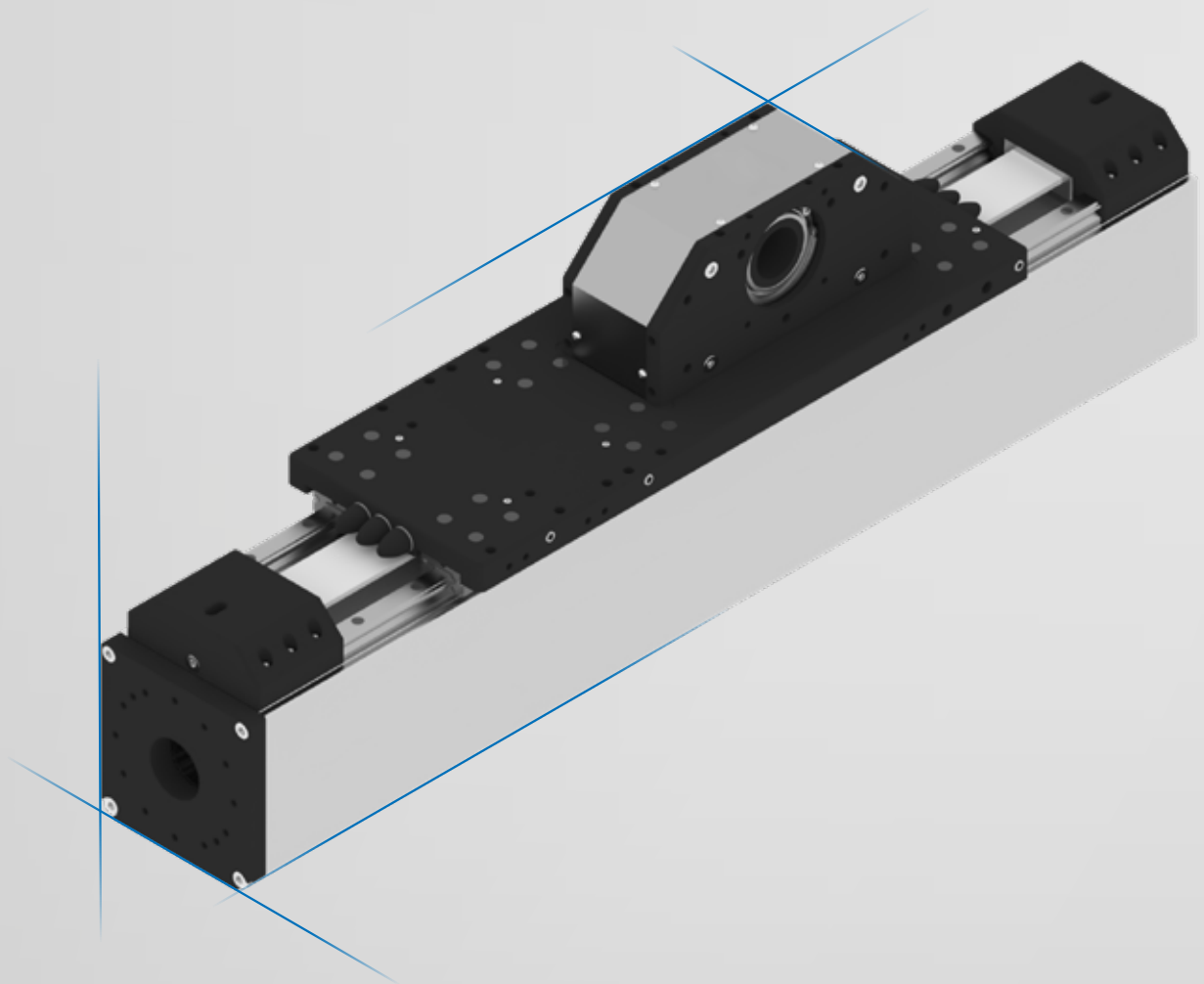


UNITÀ LINEARE A CINGHIA

BELT DRIVEN
LINEAR UNIT



SERIE VER

SERIES

120	VER045FM
124	VER060FM
130	VER065FM
136	VER090FM
142	VER060FBS
146	VER090FBS
150	VER120FBS
154	VER150FBS
160	VER125FBS
162	VER180FBS



VER **045** **FM** **00800** - **XXX** - **XX**

TIPO UNITÀ / MODEL

VER Unità lineare a cinghia dentata
Belt driven linear unit

TAGLIA / SIZE

045 Profilo larghezza 45 mm
Profile width 45 mm

060 Profilo larghezza 60 mm
Profile width 60 mm

TIPOLOGIA CARRO / CARRIAGE TYPE

FM Carro fisso monoguida e profilo mobile
Fixed carriage with single guide rail and mobile profile

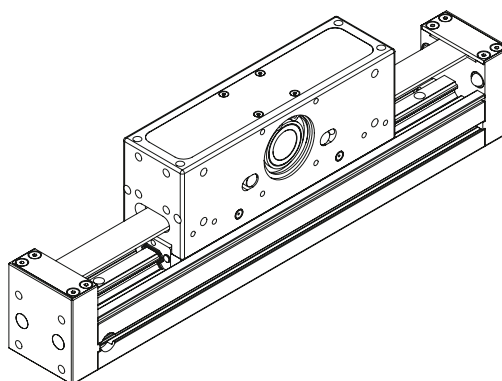
CORSA UTILE UNITÀ (mm) / EFFECTIVE STROKE (mm)

PULEGGIA (vedi versione puleggia) / PULLEY (view pulley version)

TIPOLOGIA CONFIGURAZIONE / CONFIGURATION TYPE

A Configurazione standard
Standard configuration

C Configurazione personalizzata
Custom configuration



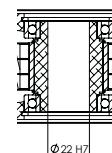
VERSIONE PULEGGIA / PULLEY VERSION

PULEGGIA / PULLEY

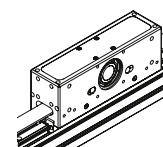
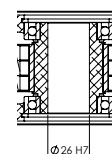
F22 Puleggia con foro passante Ø 22 mm
Pulley with hole Ø 22 mm

F26 Puleggia con foro passante Ø 26 mm
Pulley with hole Ø 26 mm

F22



F26

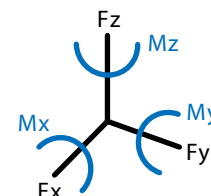
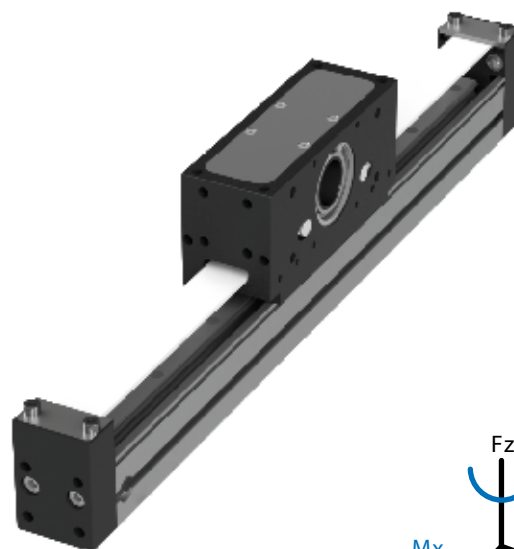


MODELLO / MODEL
VER045FM

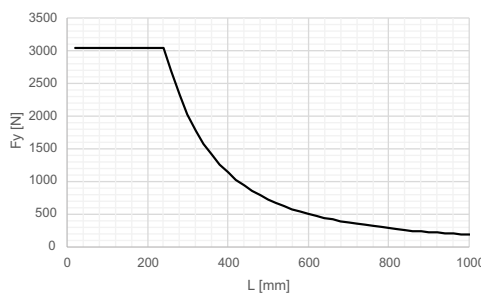
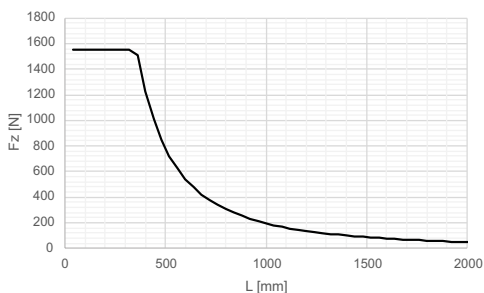
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	2,2
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	0,35
Massa carro <i>Carriage's mass</i>	[Kg]	1,3
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	125
Taglia cinghia <i>Belt's size</i>	[-]	25 AT 5
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	610
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	20
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	18

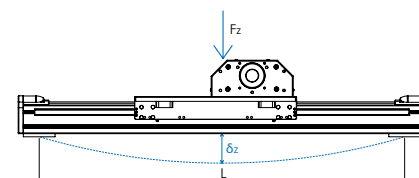
* I valori sono da considerarsi indicativi.
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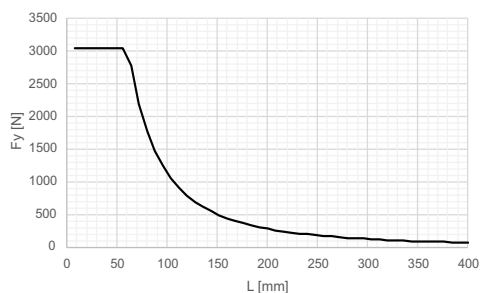
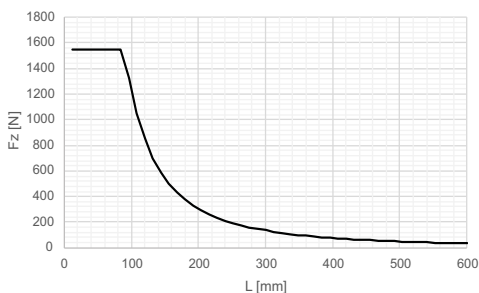
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



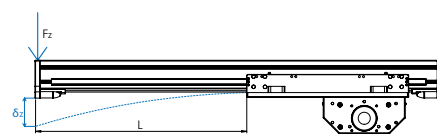
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

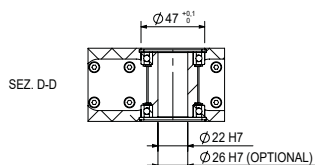
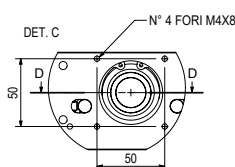
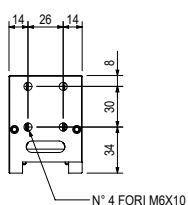
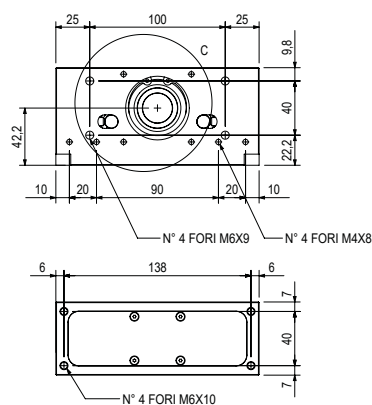
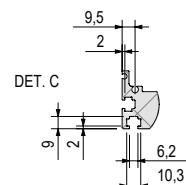
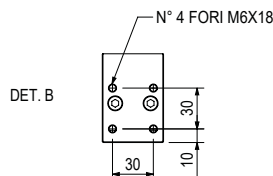
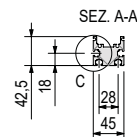
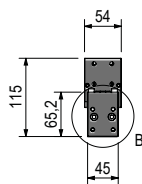
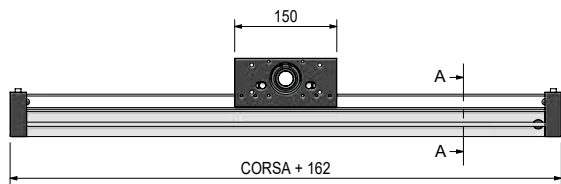


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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

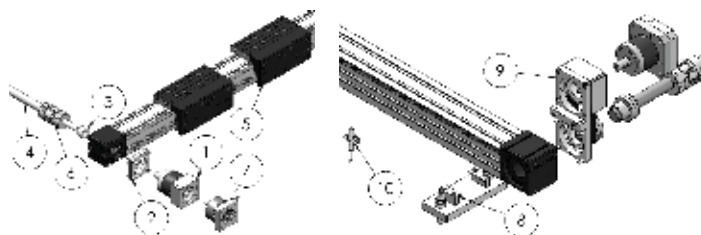


Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF20

Configurazioni puleggia
Pulley configurations

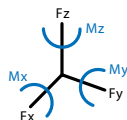
Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema Rack and pinion
① Riduttore Gearbox	x	x	x
② Kit assiale Axial kit	x	x	x
③ Calettatore Keyless Locking Device	x		x
④ Albero di torsione Torsion shaft	x		x
⑤ Carro aggiuntivo Additional carriage	x		x
⑥ Giunto elastico Elastic coupling	x		
⑦ Freno 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/Camma	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.



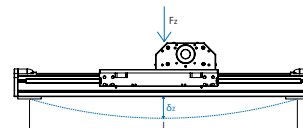
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.
The technical department is available for the evaluation of special applications and for detailed analysis.

MODELLO / MODEL
VER045FM

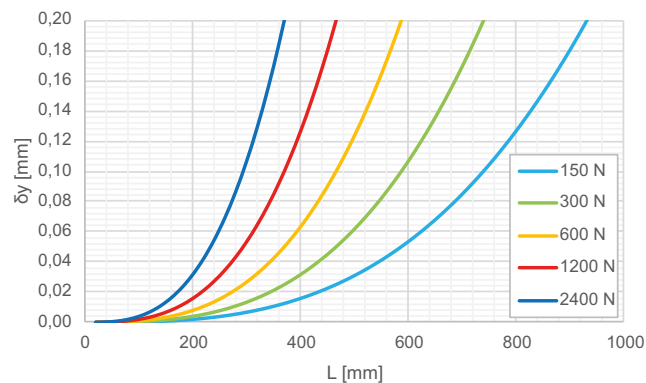
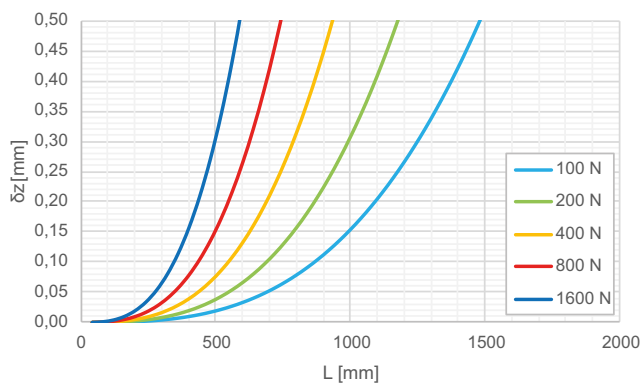


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

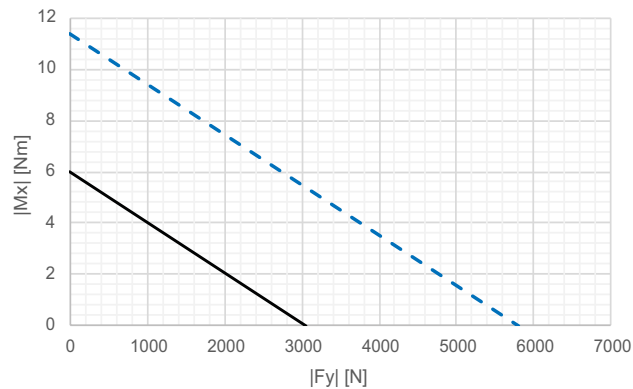
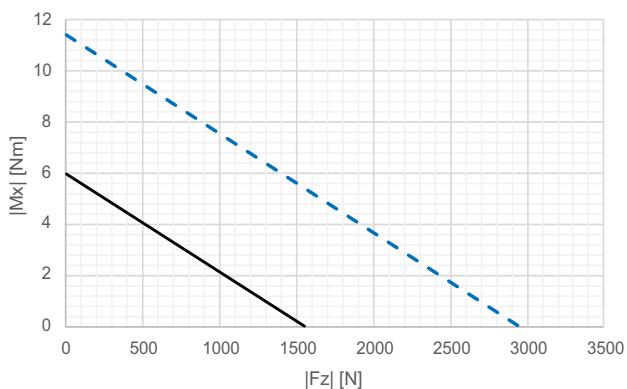
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



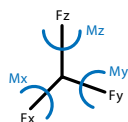
LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 cycles with 99% probability. Charts cannot be combined and are valid for: $|M_x| \leq 0.1 |M_y|$ and $|M_x| \leq 0.1 |M_z|$.

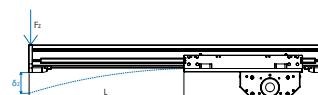
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

MODELLO / MODEL
VER045FM

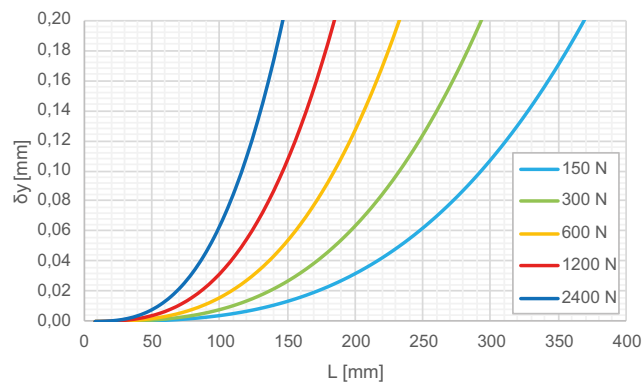
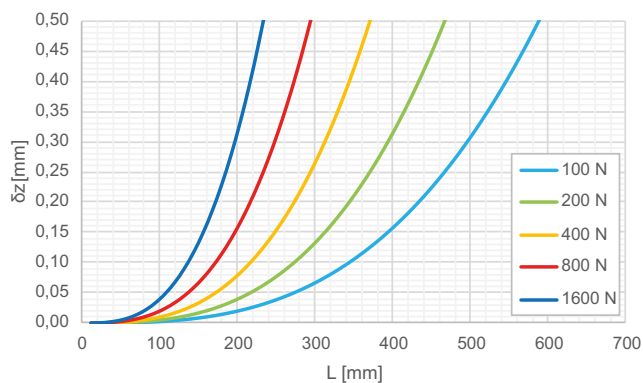


Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

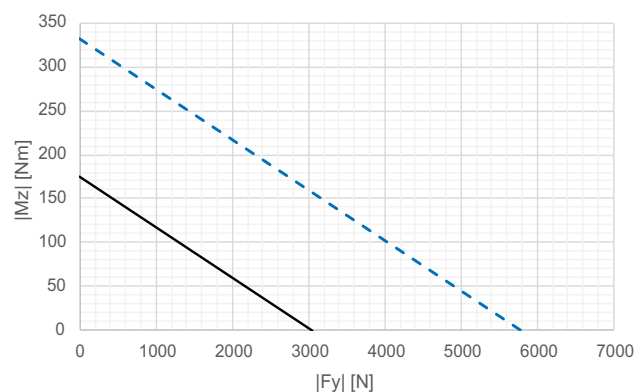
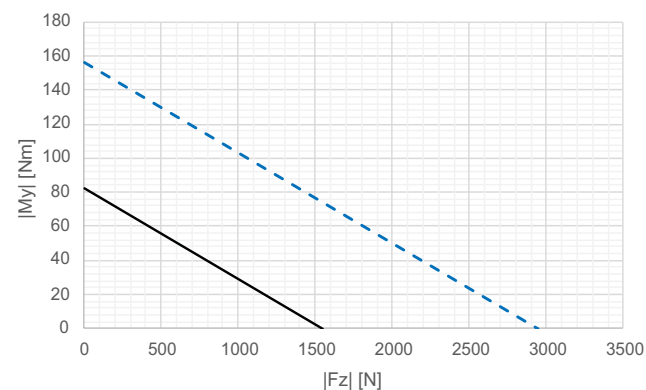
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 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.

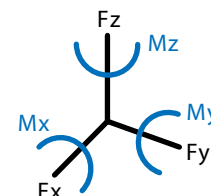
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
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MODELLO / MODEL
VER060FM

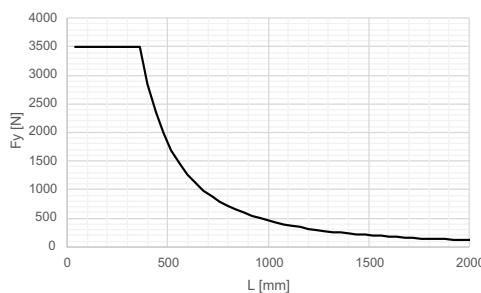
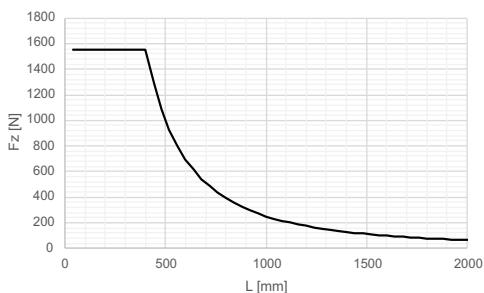
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	3,02
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	0,57
Massa carro <i>Carriage's mass</i>	[Kg]	1,54
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	125
Taglia cinghia <i>Belt's size</i>	[-]	25 AT 5
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	610
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	25
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	45

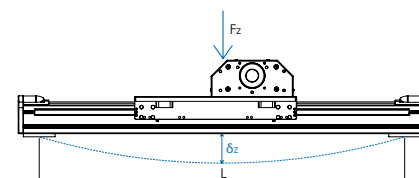
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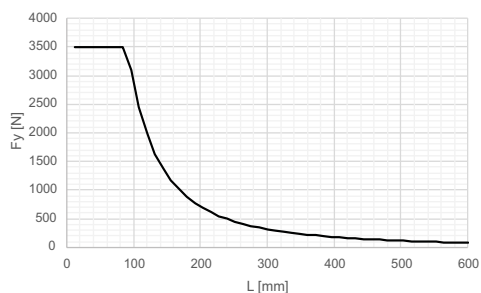
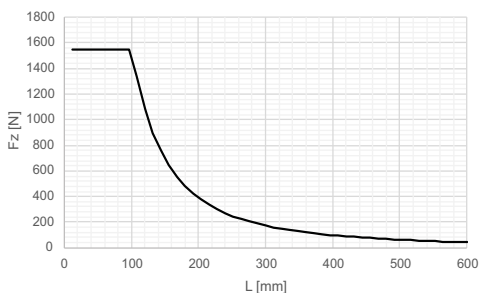
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



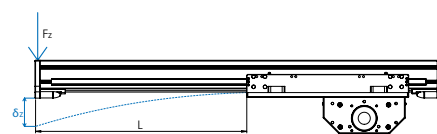
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

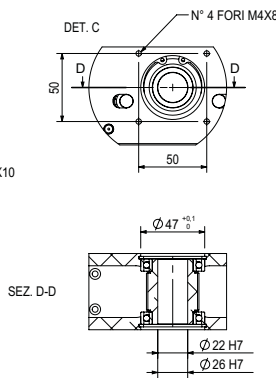
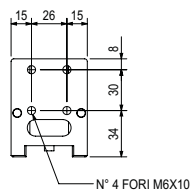
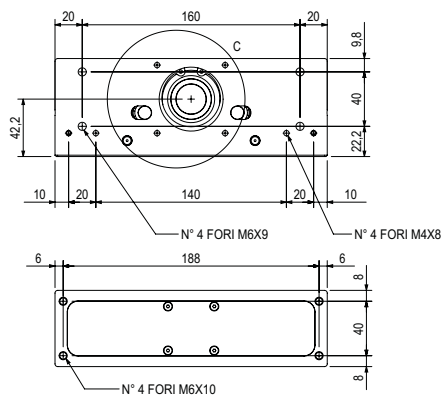
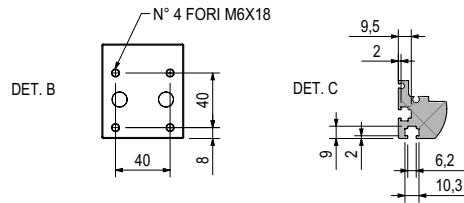
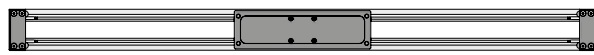
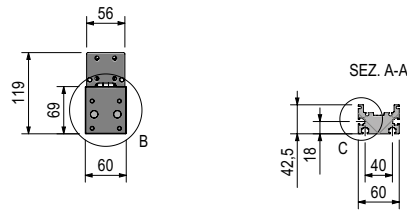
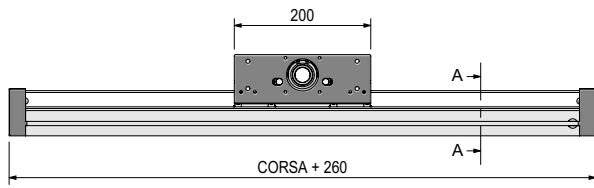


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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DIMENSIONI / DIMENSIONS

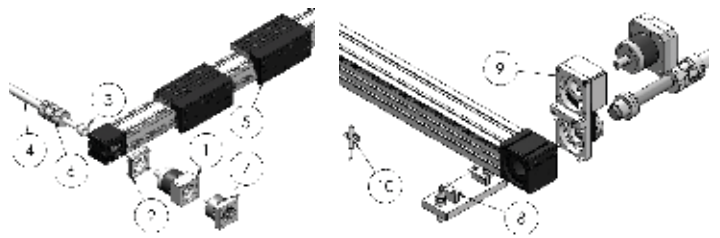


Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF20

Configurazioni puleggia
Pulley configurations

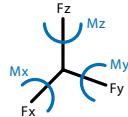
Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema Cremagliera Rack and pinion
① Riduttore Gearbox	x	x	x
② Kit assiale Axial kit	x	x	x
③ Calettatore Keyless Locking Device	x		x
④ Albero di torsione Torsion shaft	x		x
⑤ Carro aggiuntivo Additional carriage	x		x
⑥ Giunto elastico Elastic coupling	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/Camma	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 multiassi.
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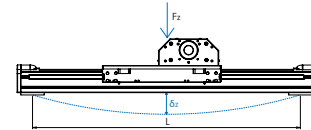
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MODELLO / MODEL
VER060FM

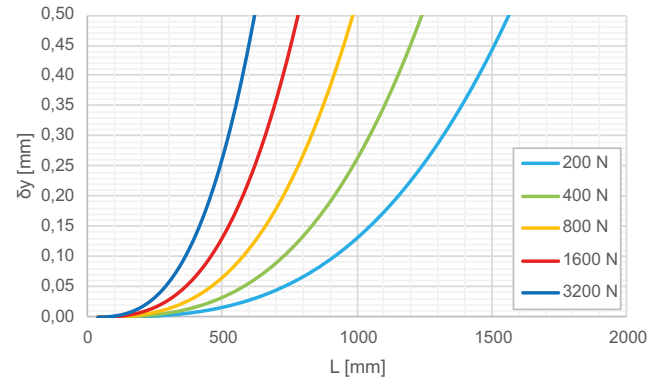
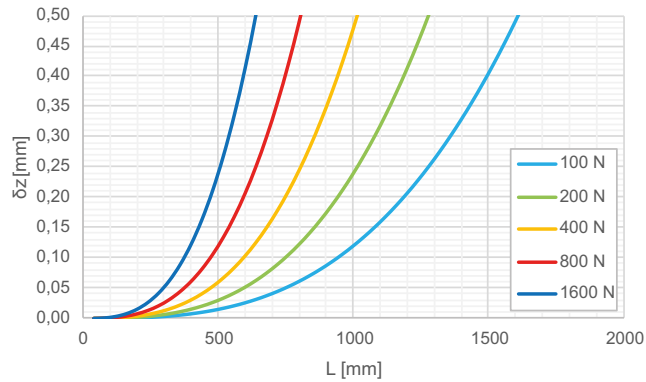


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

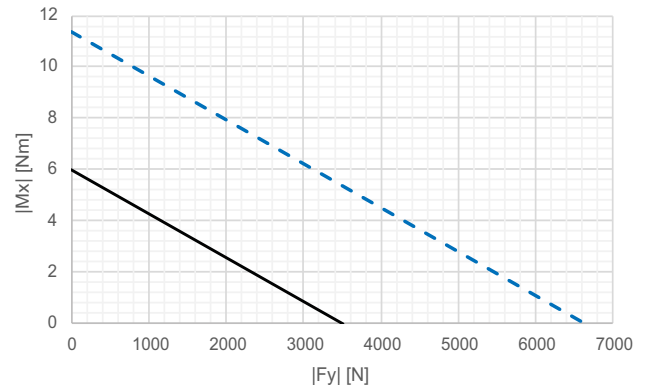
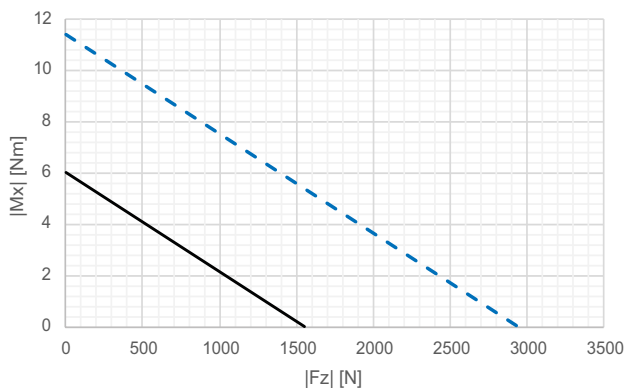
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



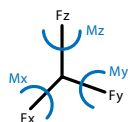
LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 cycles with 99% probability. Charts cannot be combined and are valid for: $|M_x| \leq 0.1 |M_y|$ and $|M_x| \leq 0.1 |M_z|$.

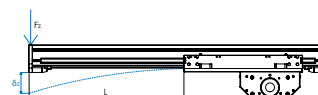
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

MODELLO / MODEL
VER060FM

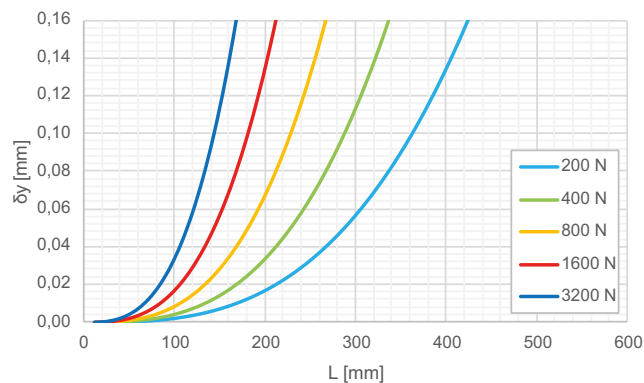
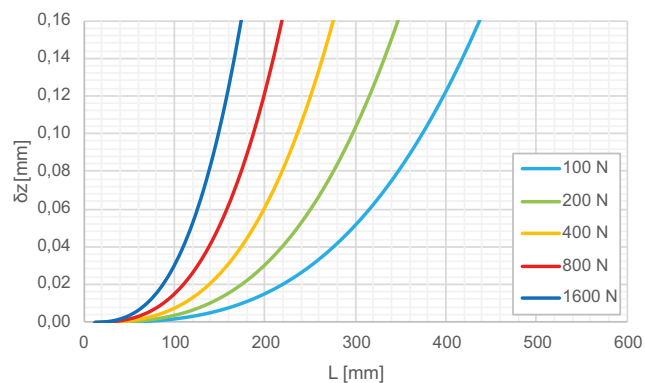


Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

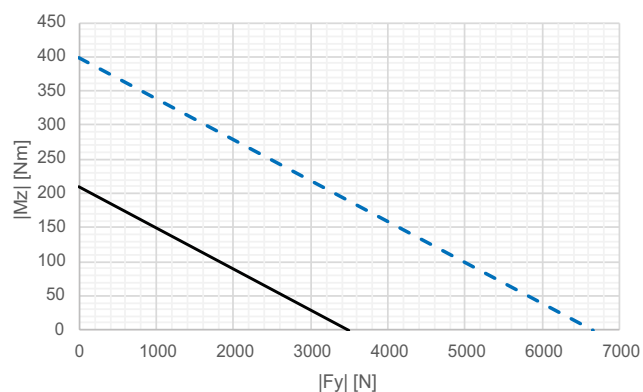
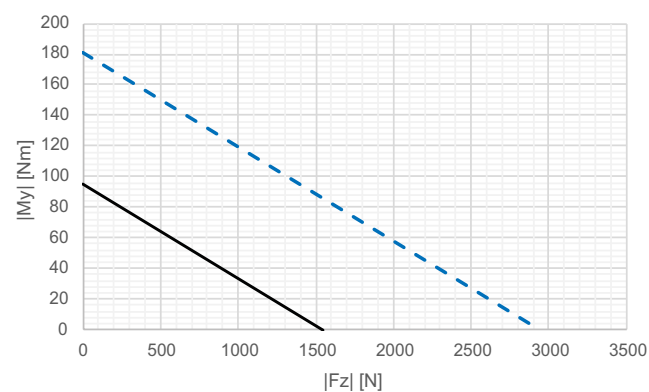
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

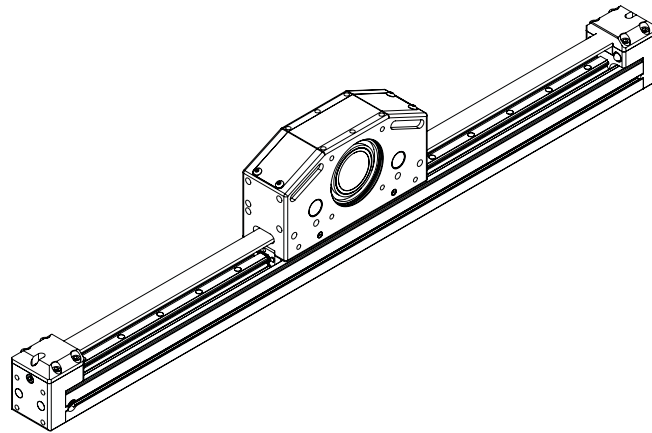


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|Mx| \leq 0.1 |My|$ e $|Mx| \leq 0.1 |Mz|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and are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

--- 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.



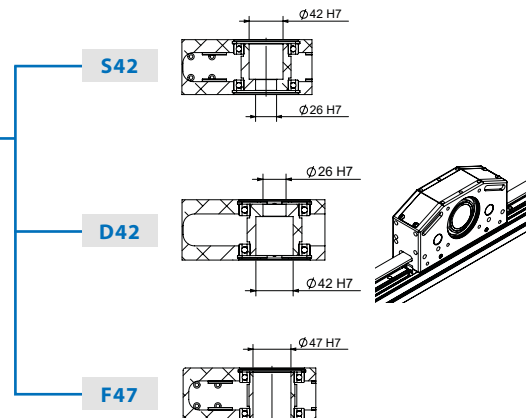
	VER	065	FM	00800	-	XXX	-	XX
TIPO UNITÀ / MODEL								
VER	Unità lineare a cinghia dentata <i>Belt driven linear unit</i>							
TAGLIA / SIZE								
065	Profilo larghezza 60 mm <i>Profile width 60 mm</i>							
TIPOLOGIA CARRO / CARRIAGE TYPE								
FM	Carro fisso monoguida e profilo mobile <i>Fixed carriage with single guide rail and mobile profile</i>							
CORSA UTILE UNITÀ (mm) / EFFECTIVE STROKE (mm)								
PULEGGIA (vedi versione puleggia) / PULLEY (view pulley version)								
TIPOLOGIA CONFIGURAZIONE / CONFIGURATION TYPE								
A	Configurazione standard <i>Standard configuration</i>							
C	Configurazione personalizzata <i>Custom configuration</i>							



VERSIONE PULEGGIA / PULLEY VERSION

PULEGGIA / PULLEY

S42	Puleggia con foro \varnothing 26 mm a destra e \varnothing 42 mm a sinistra <i>Pulley with hole \varnothing 26 mm on the right and \varnothing 42 mm on the left</i>
D42	Puleggia con foro \varnothing 26 mm a sinistra e \varnothing 42 mm a destra <i>Pulley with hole \varnothing 26 mm on the left and \varnothing 42 mm on the right</i>
F47	Puleggia con foro passante \varnothing 47 <i>Pulley with hole \varnothing 47</i>

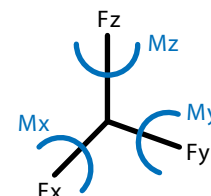


MODELLO / MODEL
VER065FM

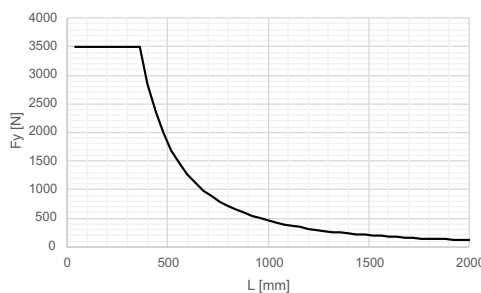
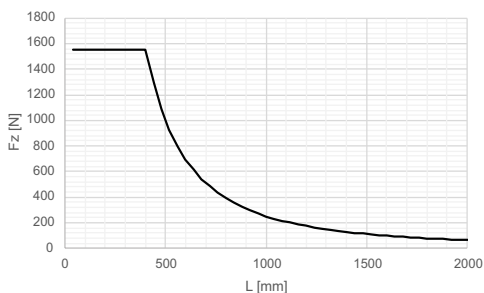
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	5,9
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	0,57
Massa carro <i>Carriage's mass</i>	[Kg]	3,11
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	200
Taglia cinghia <i>Belt's size</i>	[-]	25 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	1346
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	25
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	45

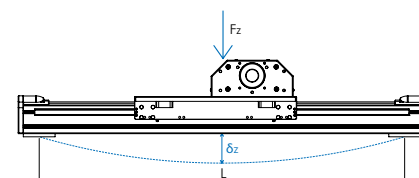
* I valori sono da considerarsi indicativi.
Prestazioni superiori sono possibili e vanno verificate col nostro ufficio tecnico.
*Values should be considered as an indication.
Higher performance are possible. Please contact our technical department.*



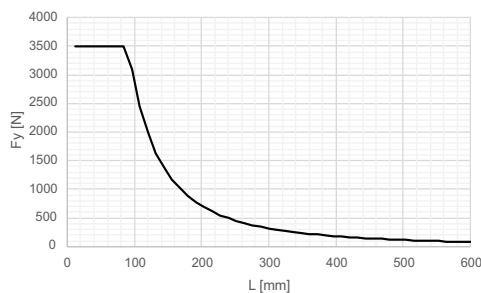
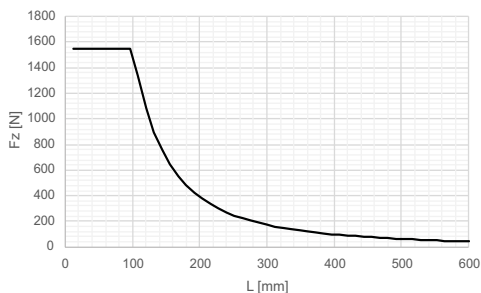
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



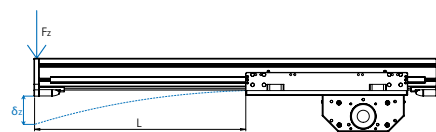
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

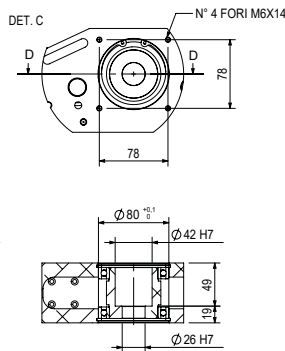
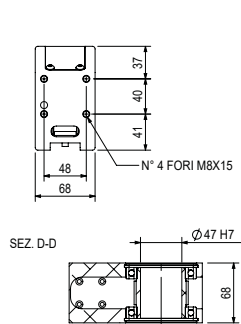
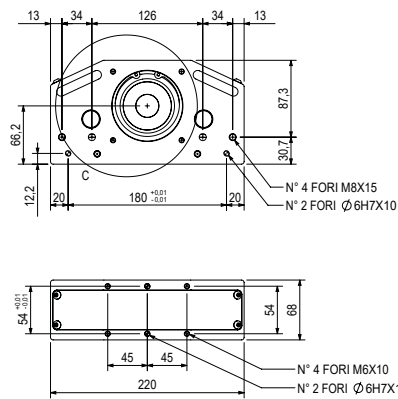
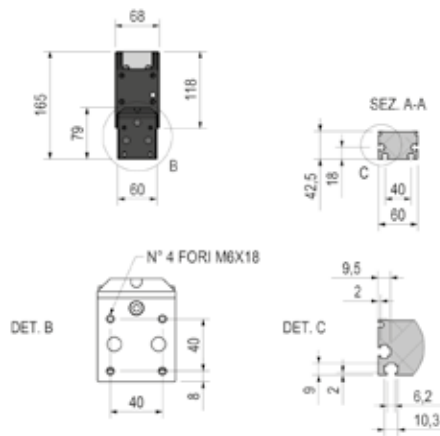
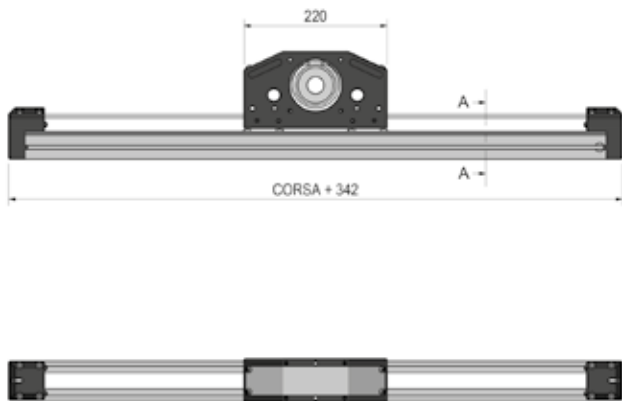


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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



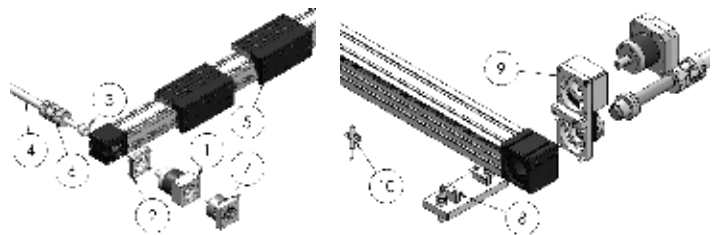
Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF30

Configurazioni puleggia
Pulley configurations

Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema di Camma 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/Camma	x	x	x

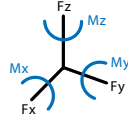
Le Unità Damo sono disponibili con una vasta gamma di accessori e optional specifici concepiti per facilitare la realizzazione e installazione di sistemi monoasse e multiasse.

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.



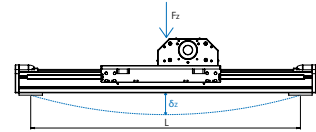
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.
The technical department is available for the evaluation of special applications and for detailed analysis.

MODELLO / MODEL
VER065FM

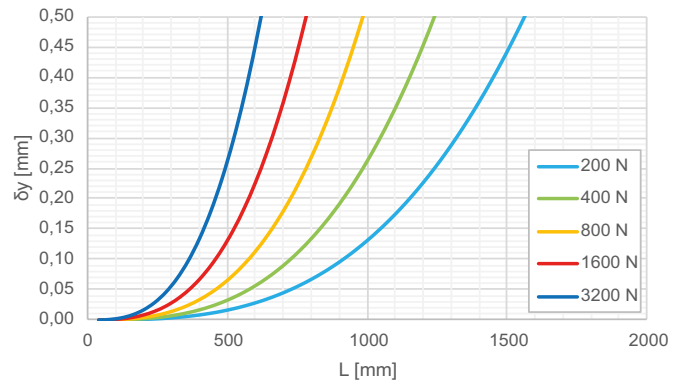
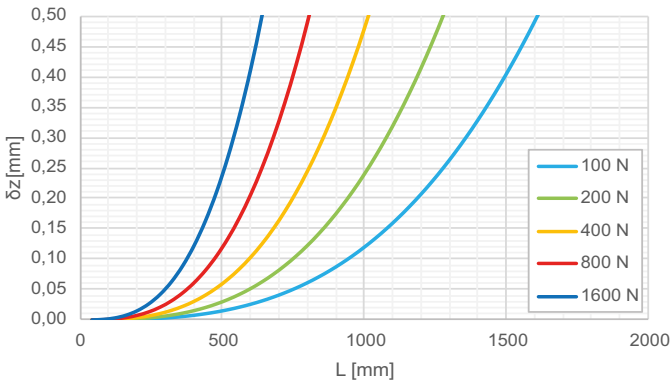


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

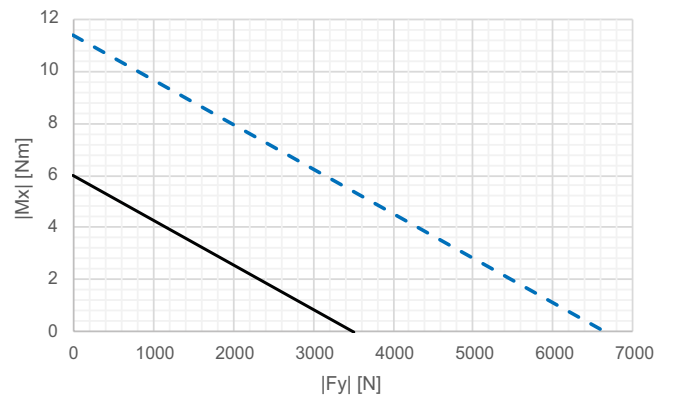
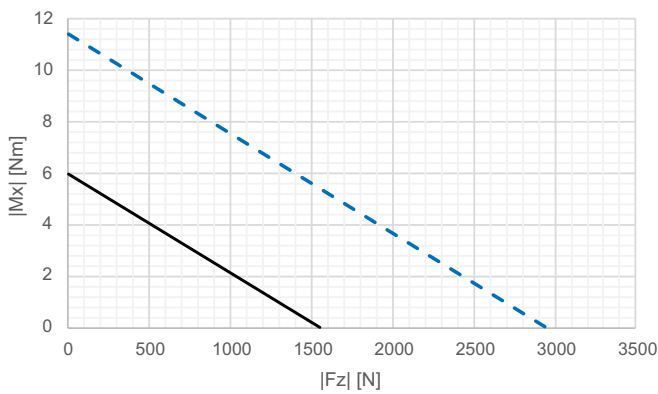
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

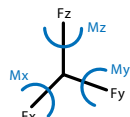


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

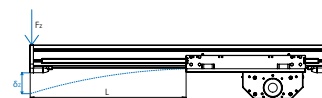
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

MODELLO / MODEL
VER065FM

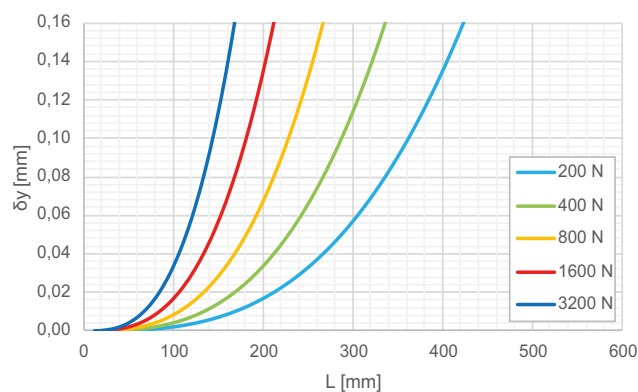
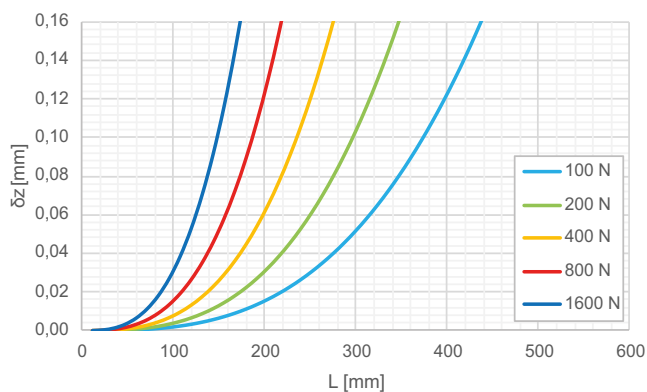


Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

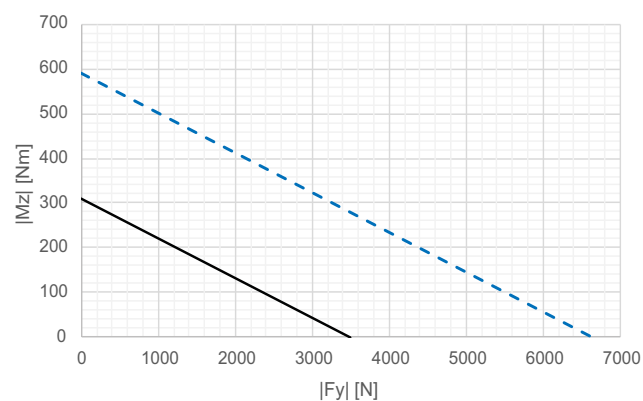
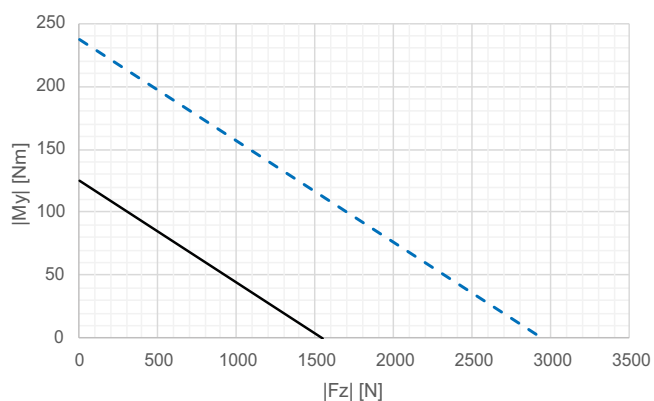
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

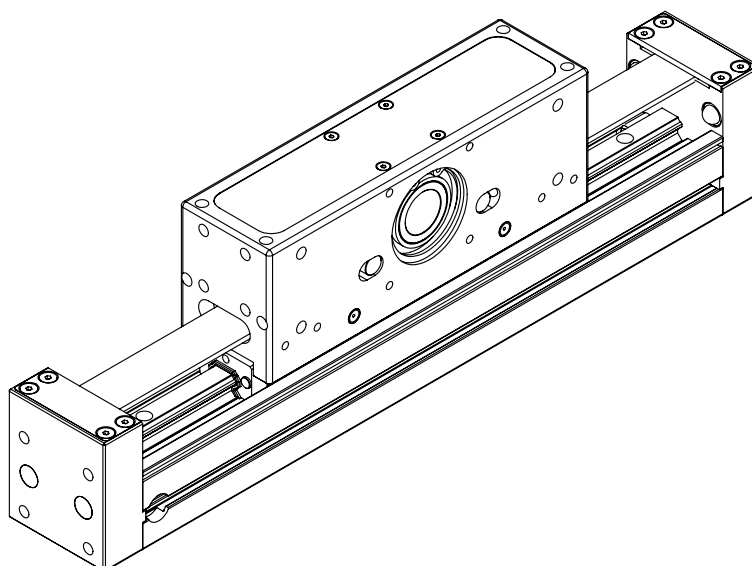


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

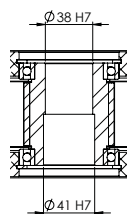
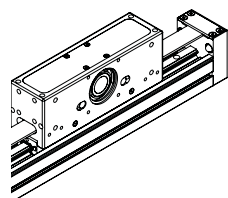
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

	VER	090	FM	00800	-	XXX	-	XX
TIPO UNITÀ / MODEL								
VER	Unità lineare a cinghia dentata <i>Belt driven linear unit</i>							
TAGLIA / SIZE								
090	Profilo larghezza 90 mm <i>Profile width 90 mm</i>							
TIPOLOGIA CARRO / CARRIAGE TYPE								
FM	Carro fisso monoguida e profilo mobile <i>Fixed carriage with single guide rail and mobile profile</i>							
CORSA UTILE UNITÀ (mm) / EFFECTIVE STROKE (mm)								
PULEGGIA (vedi versione puleggia) / PULLEY (view pulley version)								
TIPOLOGIA CONFIGURAZIONE / CONFIGURATION TYPE								
A	Configurazione standard <i>Standard configuration</i>							
C	Configurazione personalizzata <i>Custom configuration</i>							

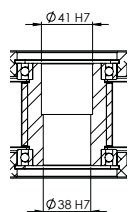




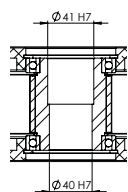
VERSIONE PULEGGIA / PULLEY VERSION



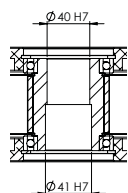
D41



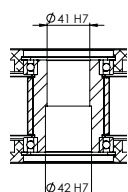
S41



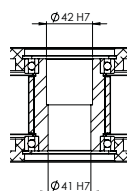
D40



S40



D42



S42

PULEGGIA / PULLEY

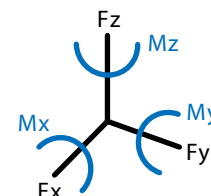
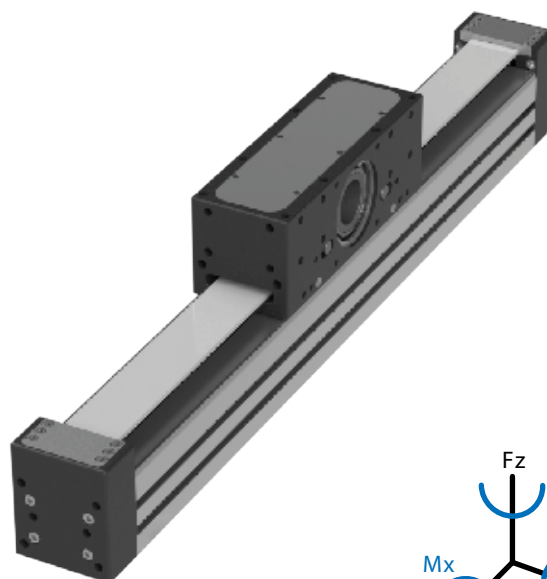
D41	Puleggia con foro \varnothing 41 mm a destra e \varnothing 38 mm a sinistra <i>Pulley with hole \varnothing 41mm on the right and \varnothing 38 mm on the left</i>
S41	Puleggia con foro \varnothing 41 mm a sinistra e \varnothing 38 mm a destra <i>Pulley with hole \varnothing 41mm on the left and \varnothing 38 mm on the right</i>
D40	Puleggia con foro \varnothing 40 mm a destra e \varnothing 41 mm a sinistra <i>Pulley with hole \varnothing 40 mm on the right and \varnothing 41 mm on the left</i>
S40	Puleggia con foro \varnothing 40 mm a sinistra e \varnothing 41 mm a destra <i>Pulley with hole \varnothing 40 mm on the left and \varnothing 41 mm on the right</i>
D42	Puleggia con foro \varnothing 42 mm a destra e \varnothing 41 mm a sinistra <i>Pulley with hole \varnothing 42 mm on the right and \varnothing 41 mm on the left</i>
S42	Puleggia con foro \varnothing 42 mm a sinistra e \varnothing 41 mm a destra <i>Pulley with hole \varnothing 42 mm on the left and \varnothing 41 mm on the right</i>

MODELLO / MODEL
VER090FM

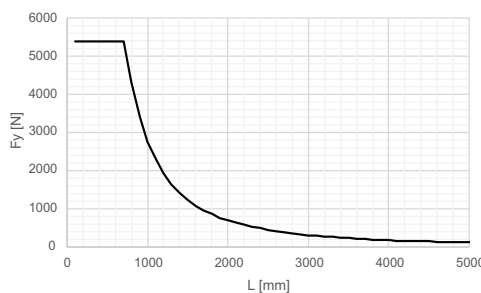
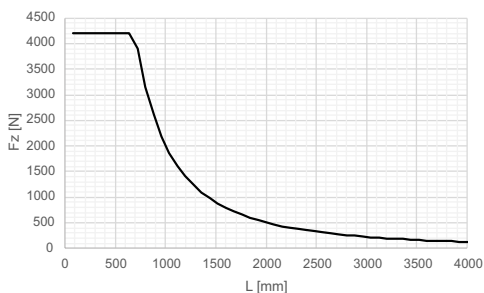
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	8,9
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	1,29
Massa carro <i>Carriage's mass</i>	[Kg]	4,9
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	220
Taglia cinghia <i>Belt's size</i>	[-]	50 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	2892
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	203
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	278

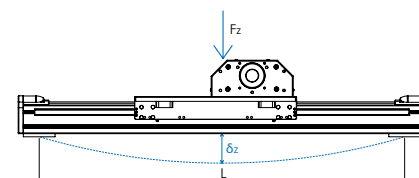
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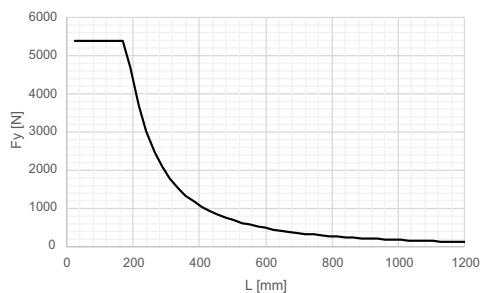
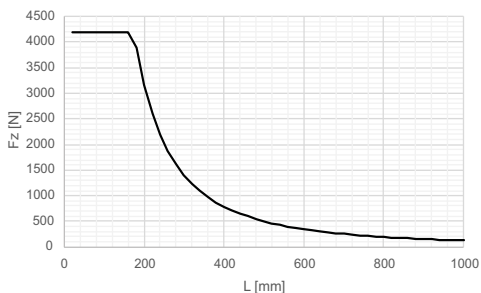
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



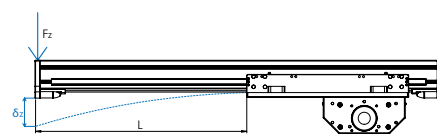
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

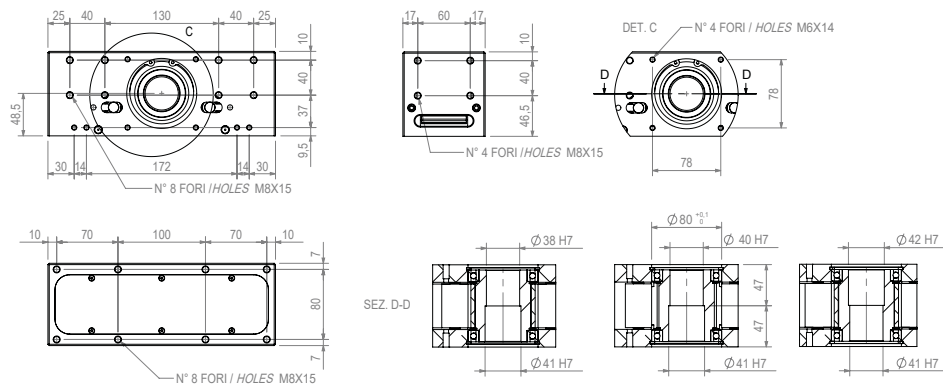
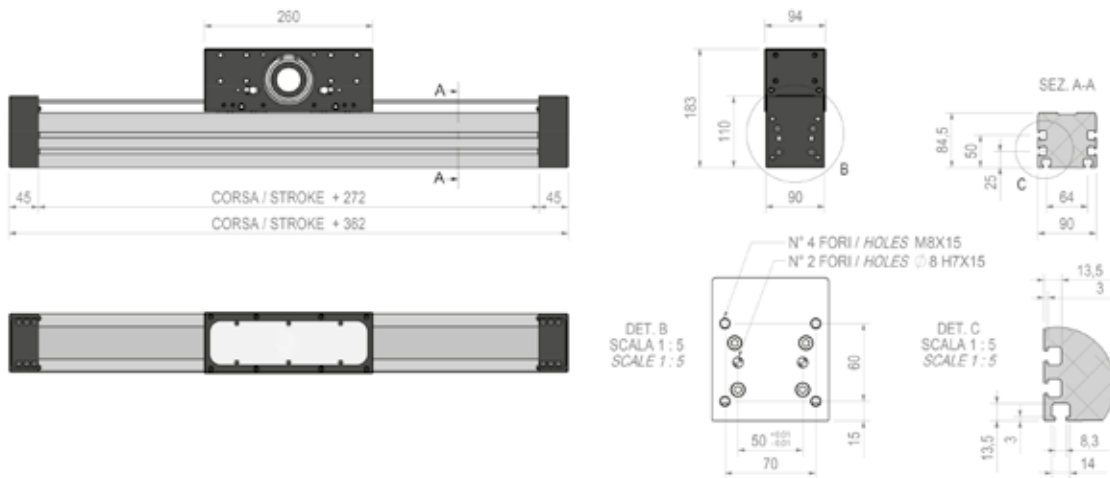


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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

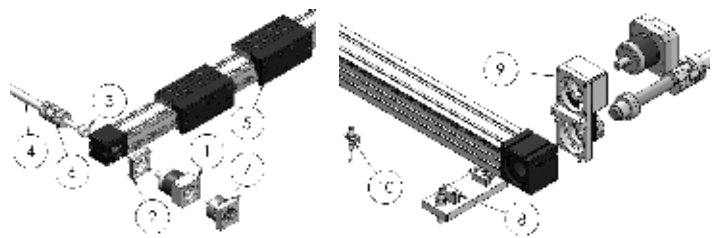


Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF30

Configurazioni puleggia
Pulley configurations

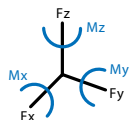
Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema-gliera Rack and pinion
① Riduttore Gearbox	x	x	x
② Kit assiale Axial kit	x	x	x
③ Calettatore Keyless Locking Device	x		x
④ Albero di torsione Torsion shaft	x		x
⑤ Carro aggiuntivo Additional carriage	x		x
⑥ Giunto elastico Elastic coupling	x		
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/Camma	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.



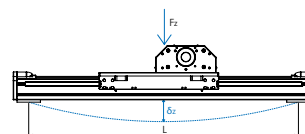
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.
The technical department is available for the evaluation of special applications and for detailed analysis.

MODELLO / MODEL
VER090FM

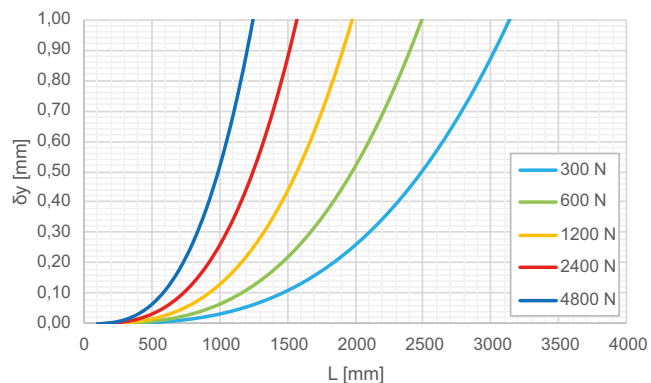
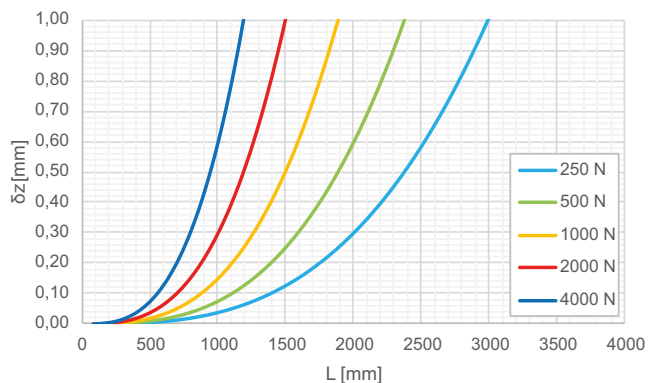


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

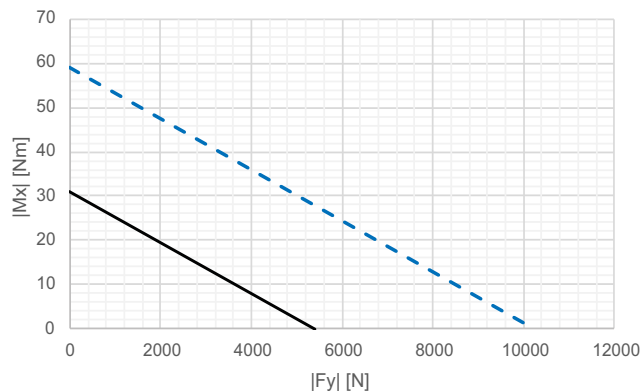
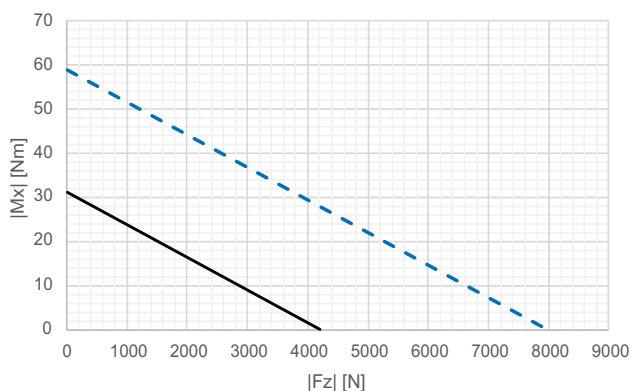
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

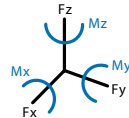


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

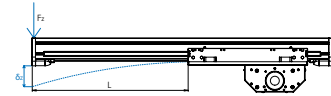
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.

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

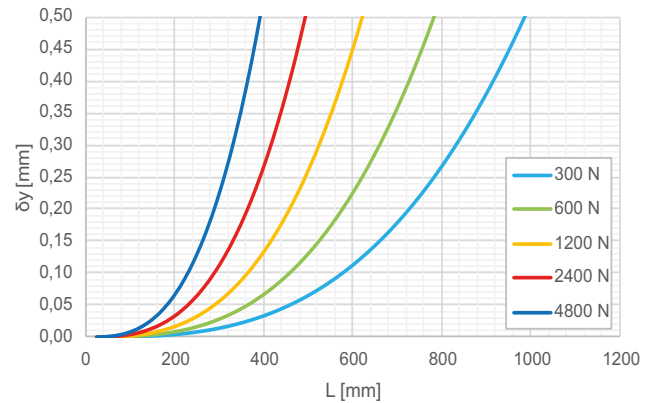
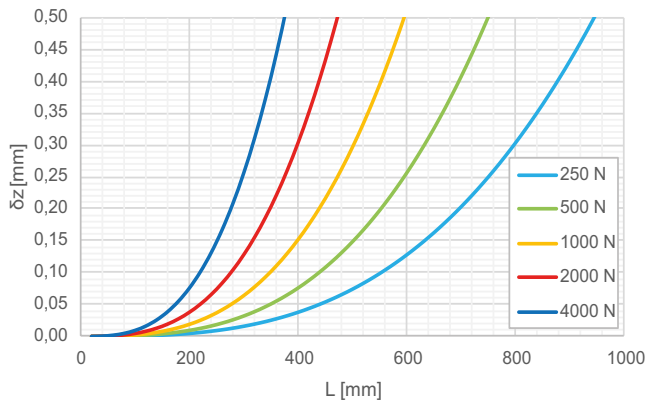
MODELLO / MODEL
VER090FM



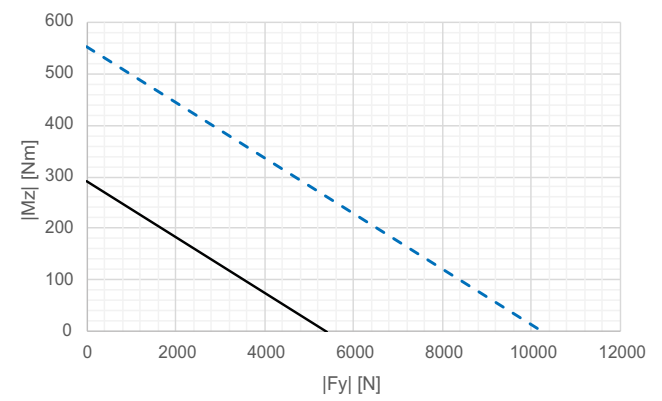
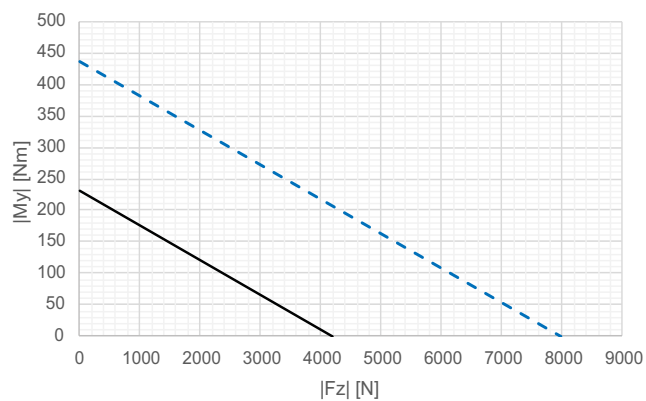
Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

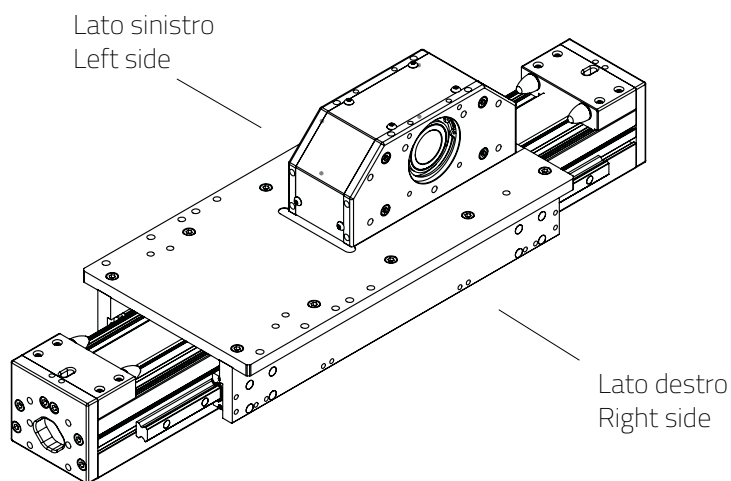


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

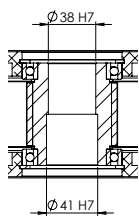
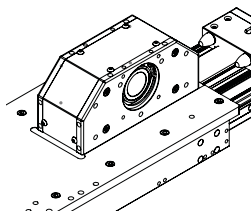
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

		VER	060	FBS	00800	-	XXX	-	XX
TIPO UNITÀ / MODEL									
VER	Unità lineare a cinghia dentata <i>Belt driven linear unit</i>								
TAGLIA / SIZE									
060	Profilo larghezza 60 mm <i>Profile width 60 mm</i>								
090	Profilo larghezza 90 mm <i>Profile width 90 mm</i>								
120	Profilo larghezza 120 mm <i>Profile width 120 mm</i>								
150	Profilo larghezza 150 mm <i>Profile width 150 mm</i>								
TIPOLOGIA CARRO / CARRIAGE TYPE									
FBS	Carro fisso biguida laterale e profilo mobile <i>Fixed carriage with lateral dual guide rail and mobile profile</i>								
CORSA UTILE UNITÀ (mm) / EFFECTIVE STROKE (mm)									
PULEGGIA (vedi versione puleggia) / PULLEY (view pulley version)									
TIPOLOGIA CONFIGURAZIONE / CONFIGURATION TYPE									
A	Configurazione standard <i>Standard configuration</i>								
C	Configurazione personalizzata <i>Custom configuration</i>								

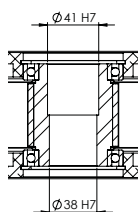




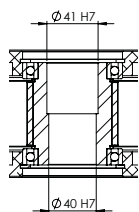
VERSIONE PULEGGIA / PULLEY VERSION



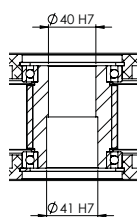
D41



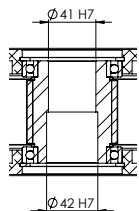
S41



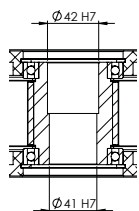
D40



S40



D42



S42

PULEGGIA / PULLEY

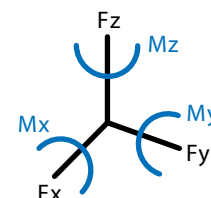
D41	Puleggia con foro \varnothing 41 mm a destra e \varnothing 38 mm a sinistra <i>Pulley with hole \varnothing 41 mm on the right and \varnothing 38 mm on the left</i>
S41	Puleggia con foro \varnothing 41 mm a sinistra e \varnothing 38 mm a destra <i>Pulley with hole \varnothing 41 mm on the left and \varnothing 38 mm on the right</i>
D40	Puleggia con foro \varnothing 40 mm a destra e \varnothing 41 mm a sinistra <i>Pulley with hole \varnothing 40 mm on the right and \varnothing 41 mm on the left</i>
S40	Puleggia con foro \varnothing 40 mm a sinistra e \varnothing 41 mm a destra <i>Pulley with hole \varnothing 40 mm on the left and \varnothing 41 mm on the right</i>
D42	Puleggia con foro \varnothing 42 mm a destra e \varnothing 41 mm a sinistra <i>Pulley with hole \varnothing 42 mm on the right and \varnothing 41 mm on the left</i>
S42	Puleggia con foro \varnothing 42 mm a sinistra e \varnothing 41 mm a destra <i>Pulley with hole \varnothing 42 mm on the left and \varnothing 41 mm on the right</i>

MODELLO / MODEL
VER060FBS

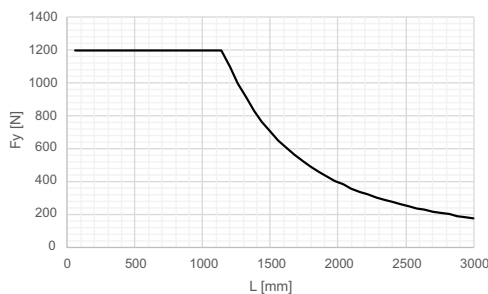
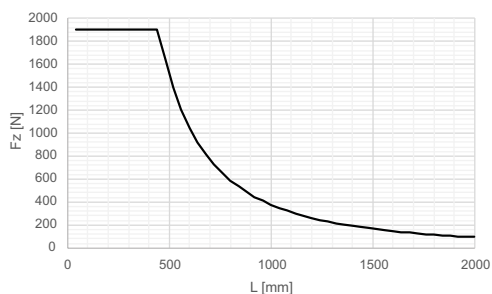
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	12,25
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	0,64
Massa carro <i>Carriage's mass</i>	[Kg]	8,85
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	220
Taglia cinghia <i>Belt's size</i>	[-]	32 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	1740
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	37
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	206

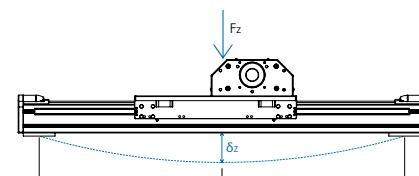
* I valori sono da considerarsi indicativi.
Prestazioni superiori sono possibili e vanno verificate col nostro ufficio tecnico.
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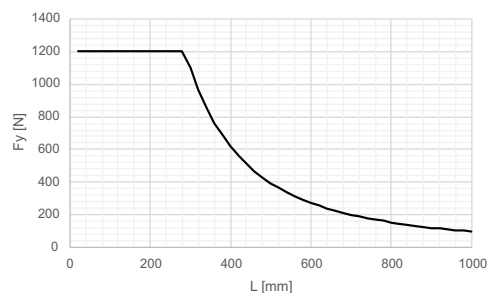
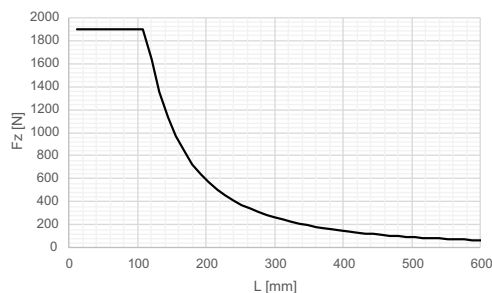
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



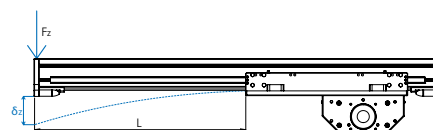
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

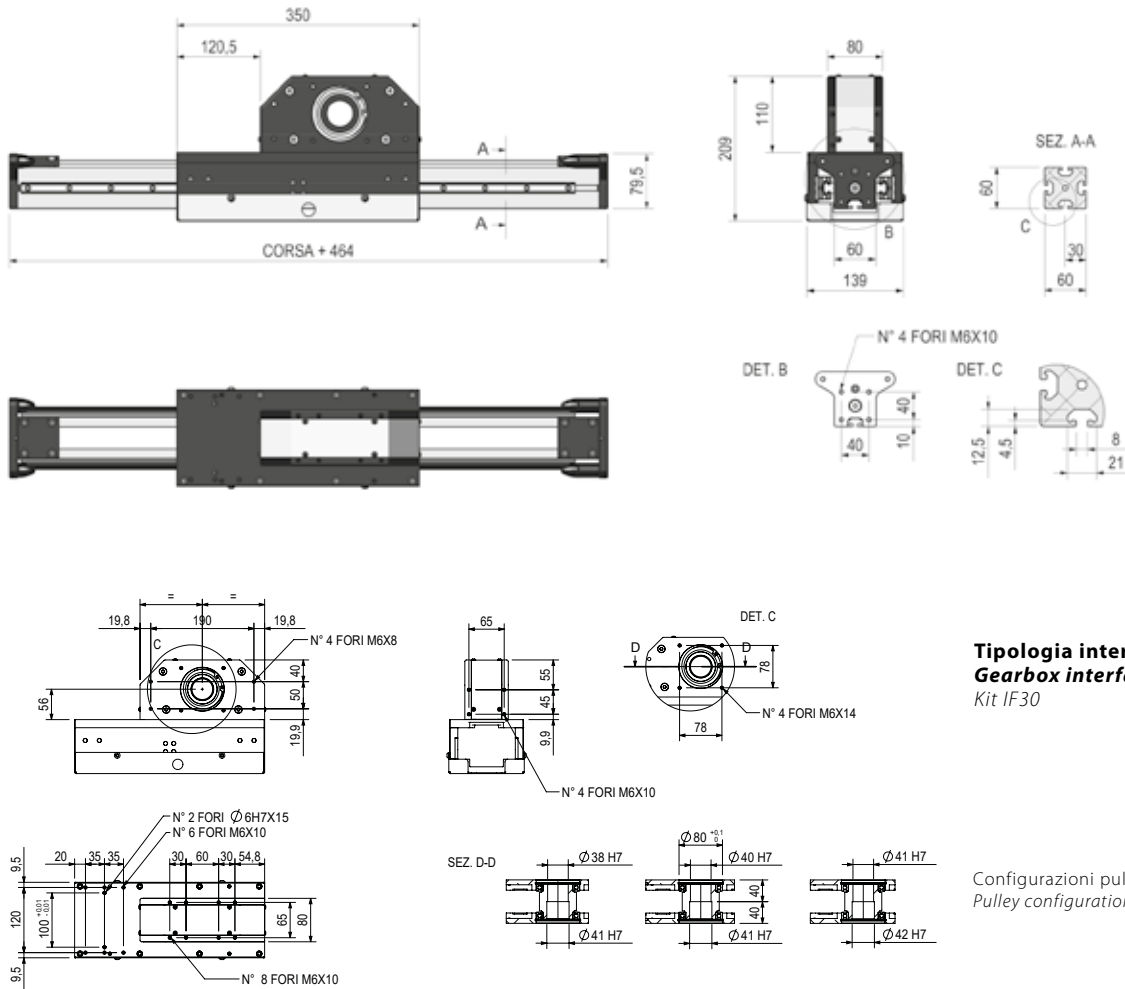


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



Si raccomanda di non superare i limiti dei grafici per non avere malfunzionamento dell'unità, peggioramento delle prestazioni o eccessiva usura.
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DIMENSIONI / DIMENSIONS

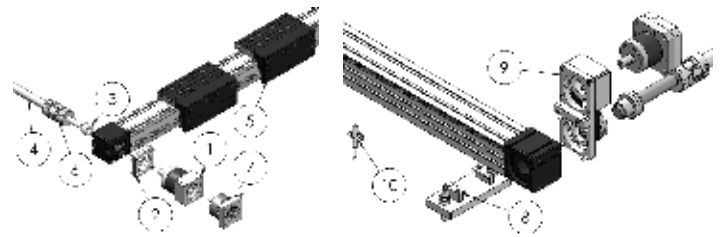


Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF30

Configurazioni puleggia
Pulley configurations

Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema di ghiera 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/Camma	x	x	x

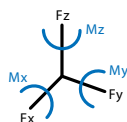
Le Unità Damo sono disponibili con una vasta gamma di accessori e optional specifici concepiti per facilitare la realizzazione e installazione di sistemi monoasse e multiasse.
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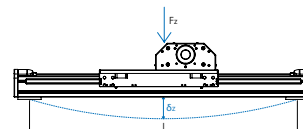
MODELLO / MODEL

VER060FBS

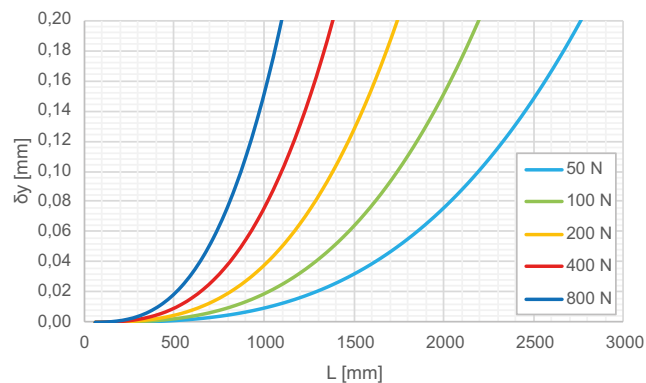
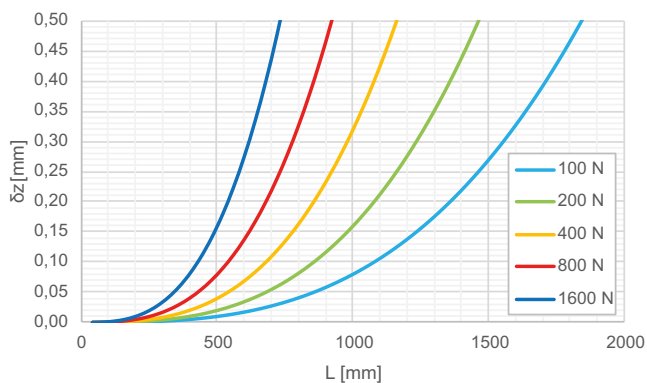


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

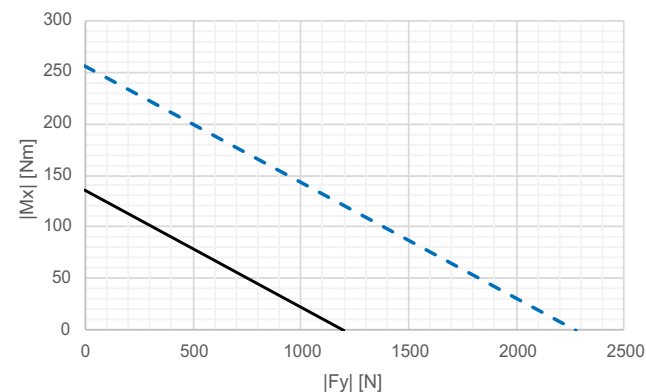
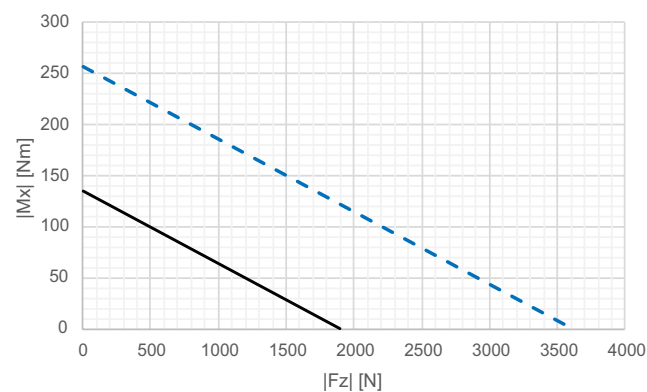
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



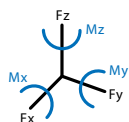
— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|Mx| \leq 0.1 |My|$ e $|Mx| \leq 0.1 |Mz|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and are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

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

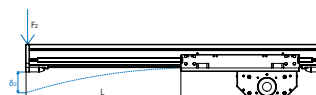
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

MODELLO / MODEL

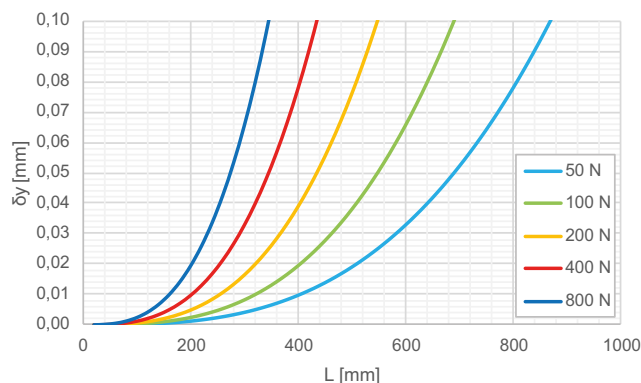
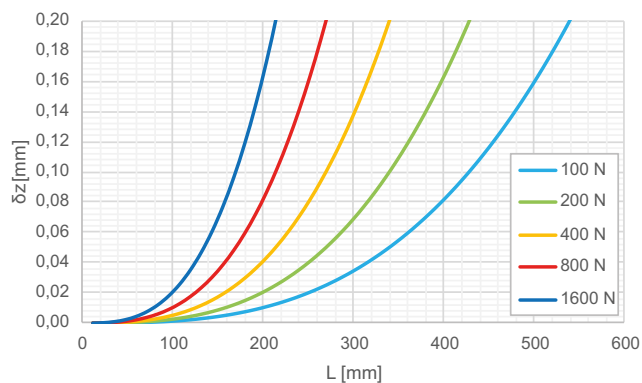
VER060FBS



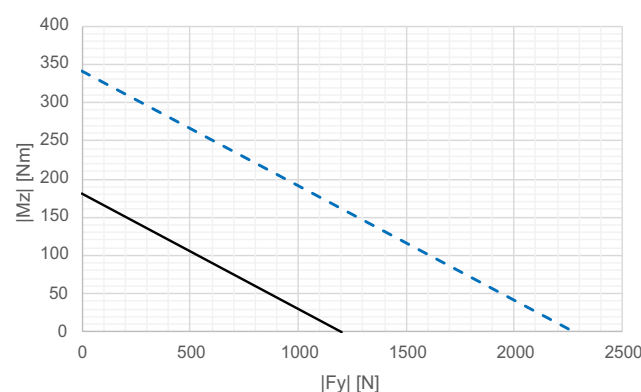
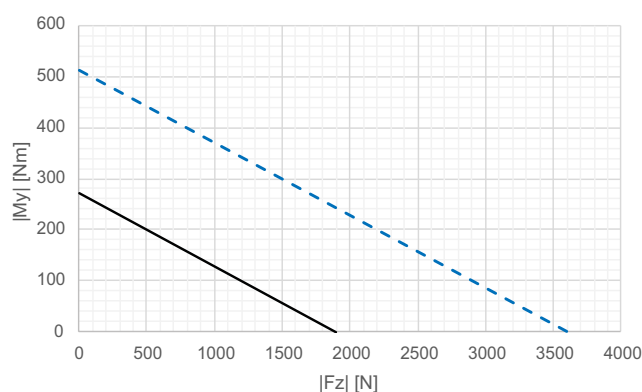
Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 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.

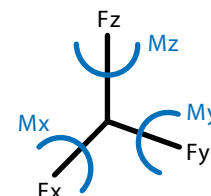
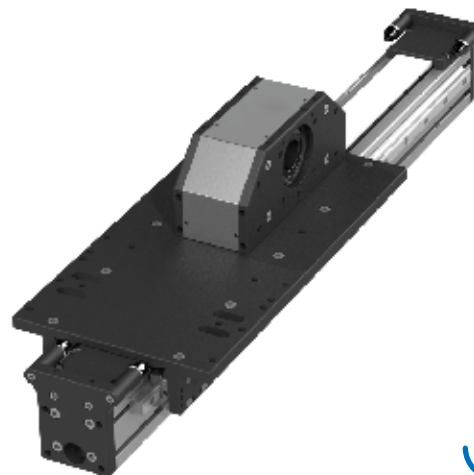
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MODELLO / MODEL
VER090FBS

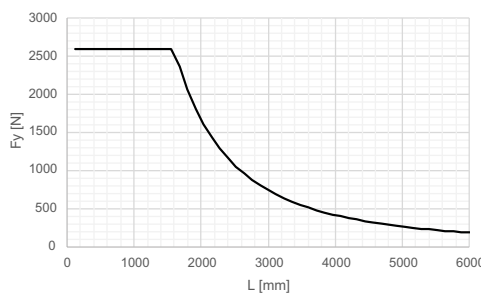
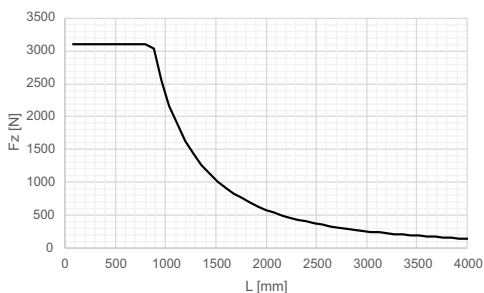
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	23,5
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	1,02
Massa carro <i>Carriage's mass</i>	[Kg]	15,65
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	220
Taglia cinghia <i>Belt's size</i>	[-]	50 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	2892
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	234
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	719

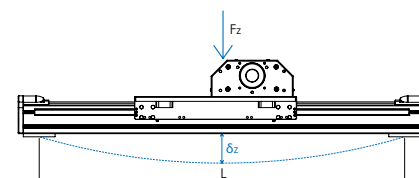
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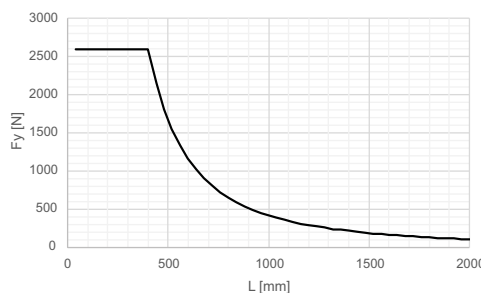
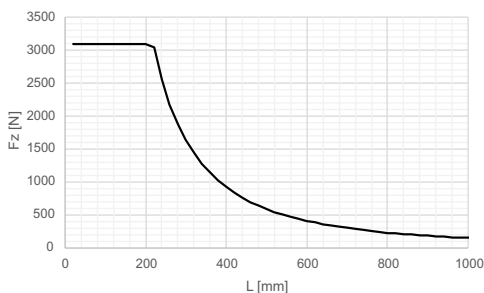
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



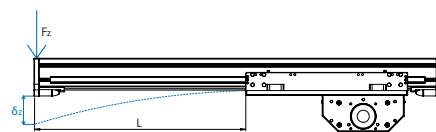
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

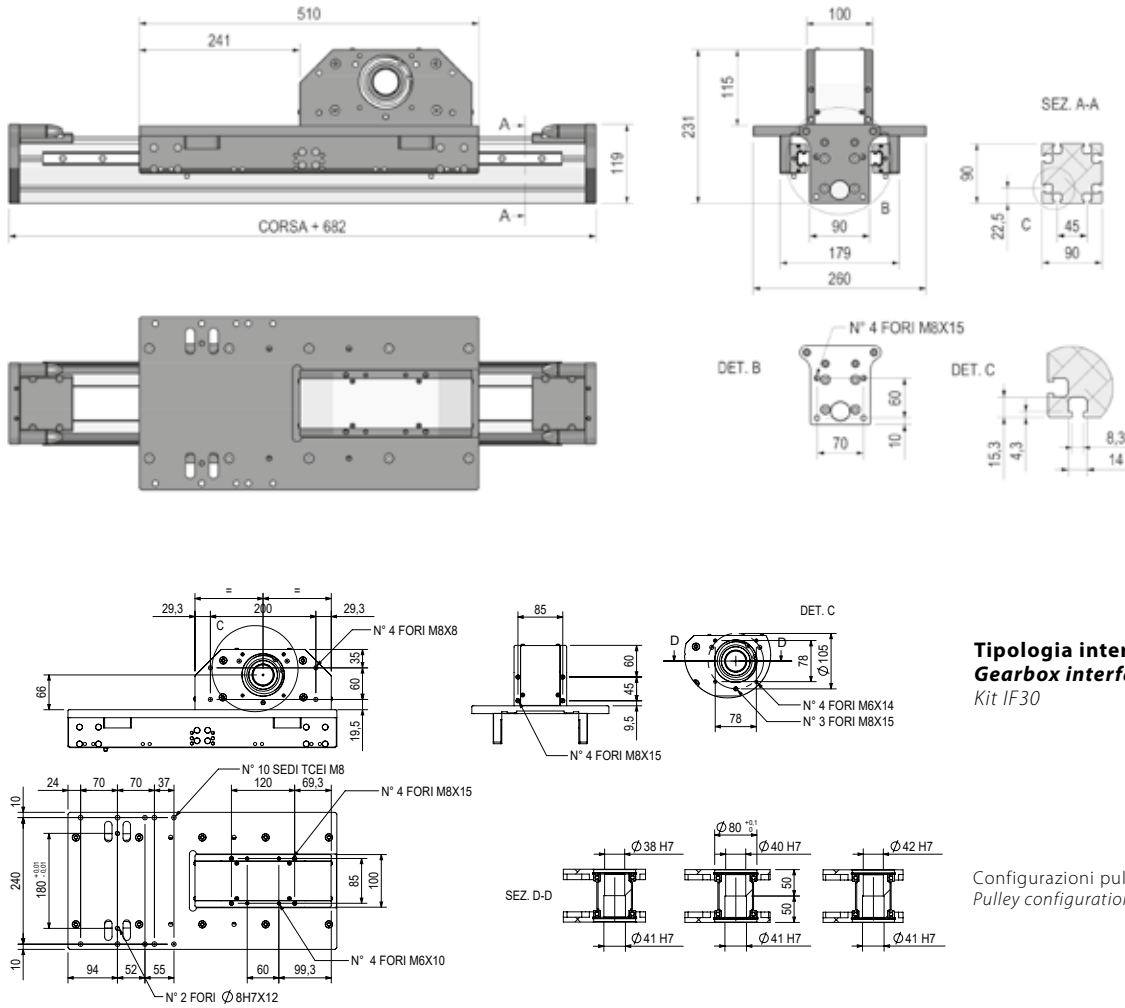


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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

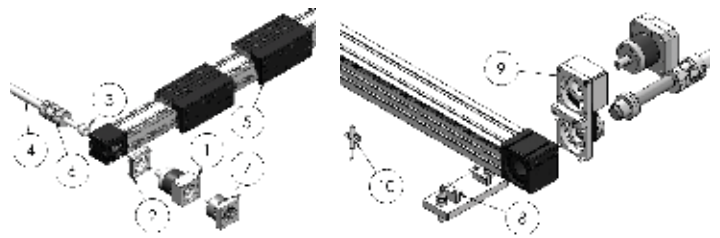


Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF30

Configurazioni puleggia
Pulley configurations

Accessori Accessories	Cinghia Belt	Vite Ball screw	Cremaingiera 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/Camma	x	x	x

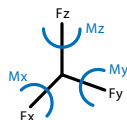
Le Unità Damo sono disponibili con una vasta gamma di accessori e optional specifici concepiti per facilitare la realizzazione e installazione di sistemi monoasse e multiasse.
All Units are available with a wide range of accessories and specific options designed to simplify the construction and installation 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.

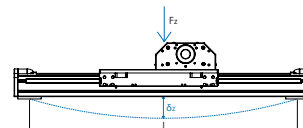
MODELLO / MODEL

VER090FBS

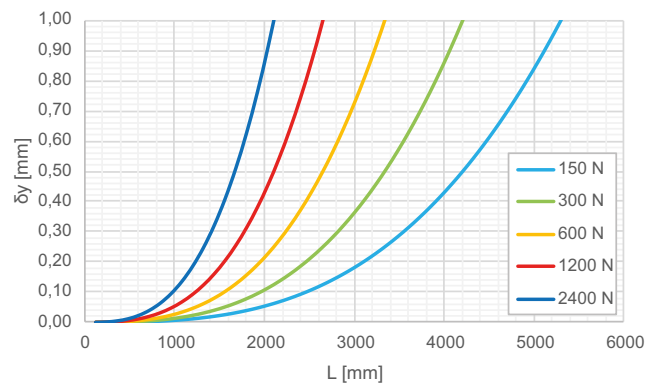
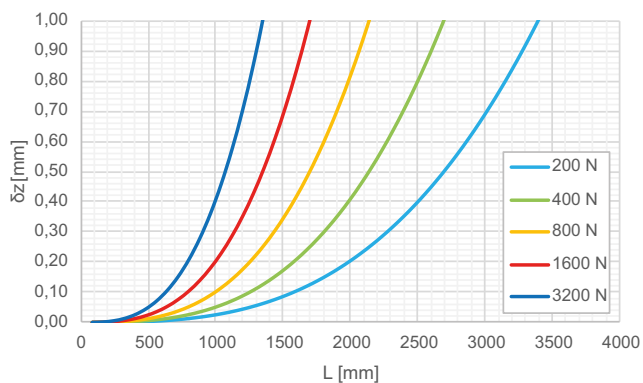


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

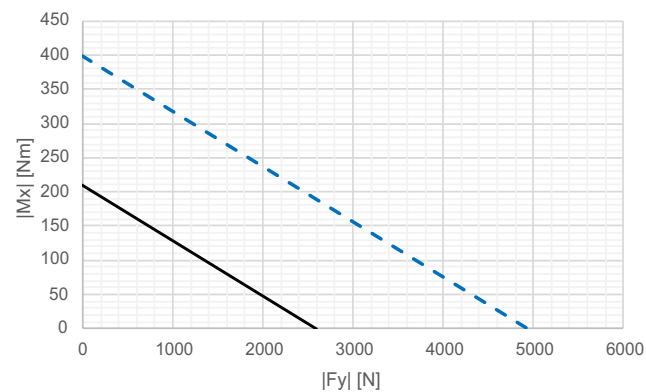
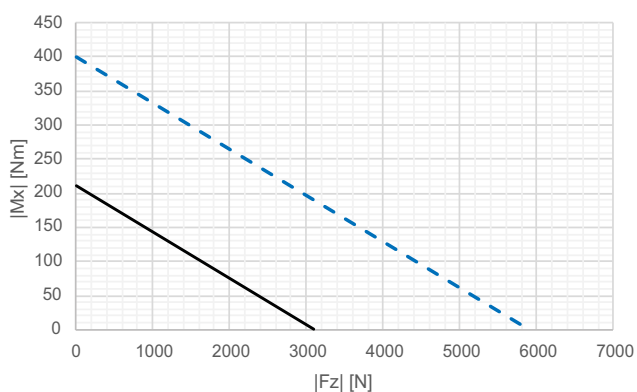
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



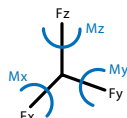
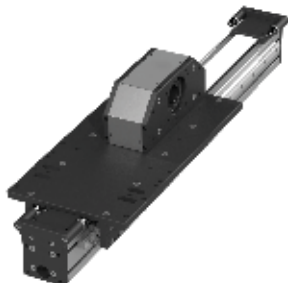
— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

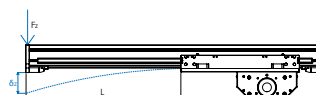
MODELLO / MODEL

VER090FBS

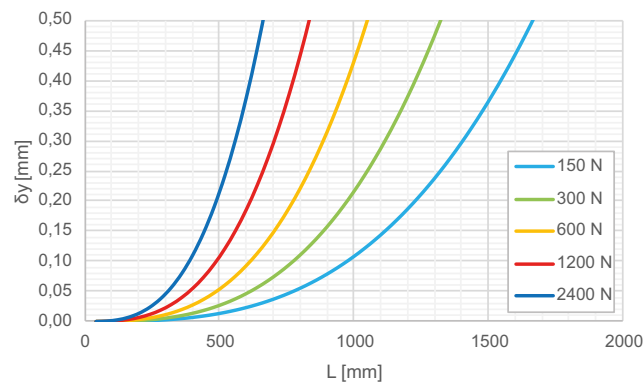
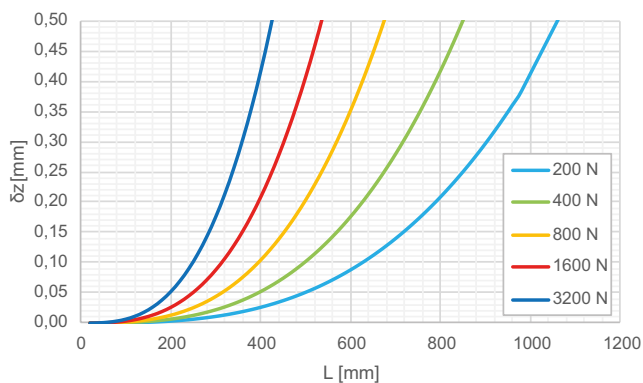


Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

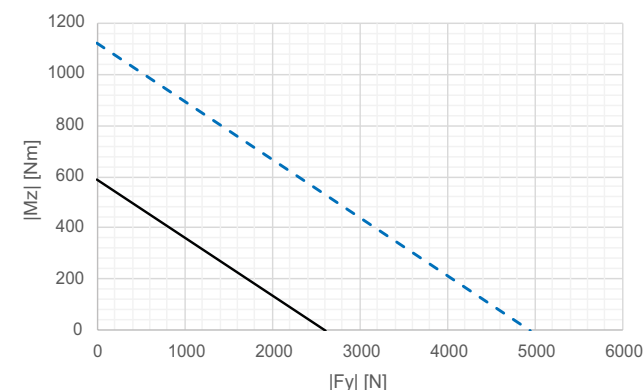
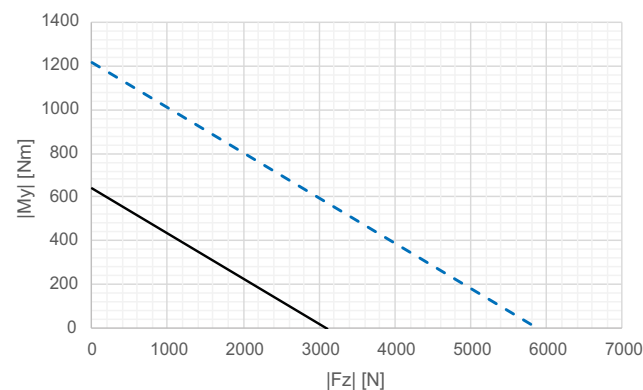
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 cycles with 99% probability. Charts cannot be combined and are valid for: $|M_x| \leq 0.1 |M_y|$ and $|M_x| \leq 0.1 |M_z|$.

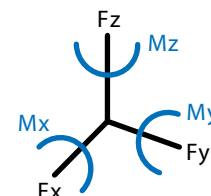
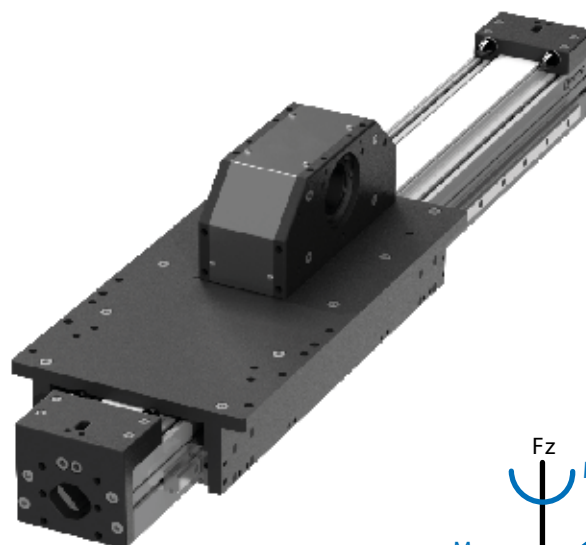
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

MODELLO / MODEL
VER120FBS

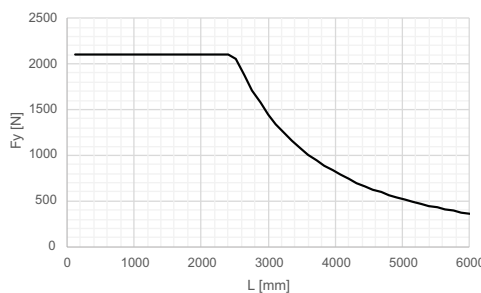
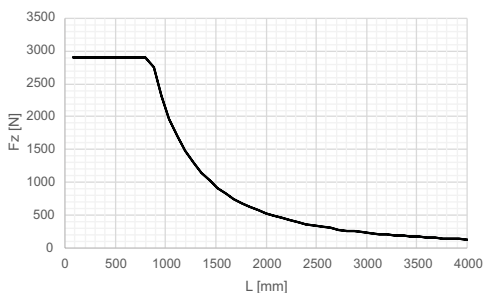
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	27
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	1,24
Massa carro <i>Carriage's mass</i>	[Kg]	16,5
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	220
Taglia cinghia <i>Belt's size</i>	[-]	50 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	2892
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	212
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	1392

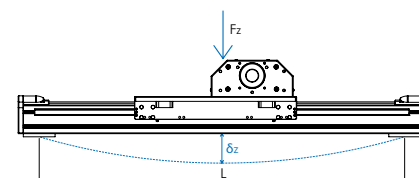
* I valori sono da considerarsi indicativi.
Prestazioni superiori sono possibili e vanno verificate col nostro ufficio tecnico.
*Values should be considered as an indication.
Higher performance are possible. Please contact our technical department.*



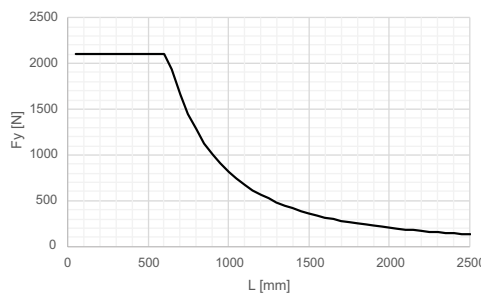
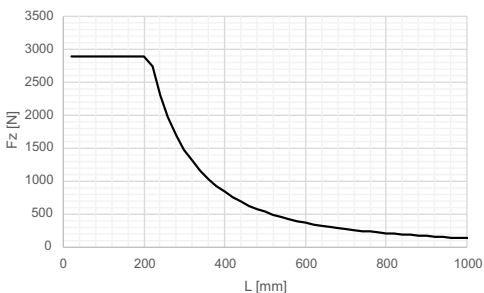
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



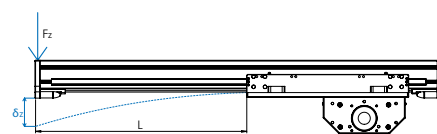
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

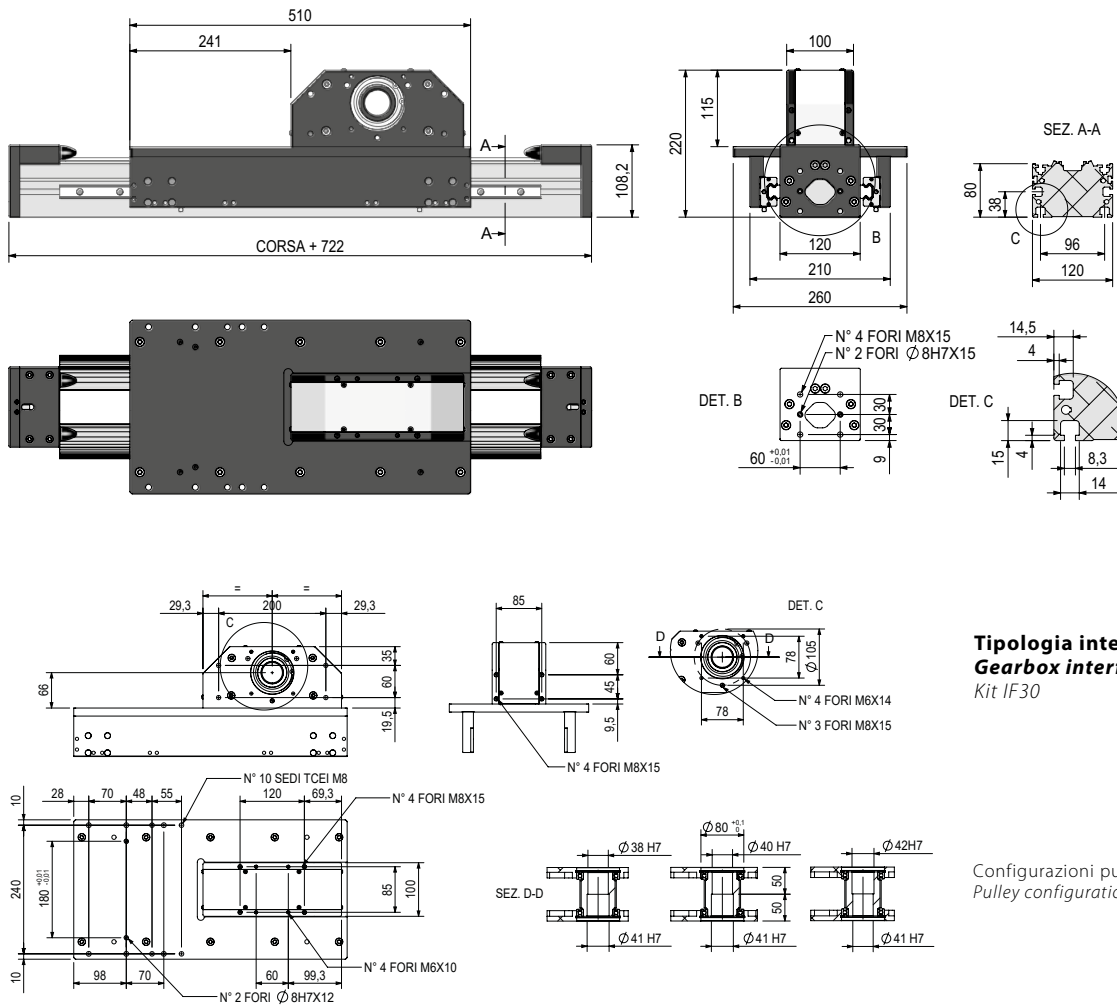


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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We recommend not to exceed the maximum values to avoid lower performance, a reduced reliability and a big wear of the components.

DIMENSIONI / DIMENSIONS

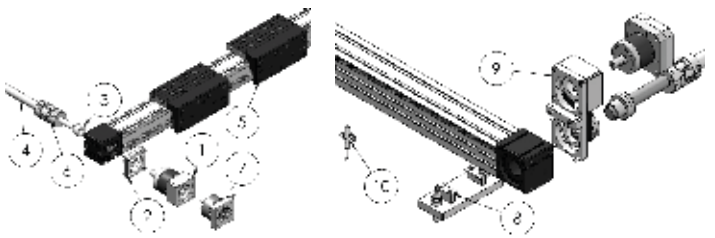


Tipologia interfaccia riduttore ②
Gearbox interface type
Kit IF30

Configurazioni puleggia
Pulley configurations

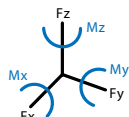
Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema Rack and pinion
① Riduttore Gearbox	x	x	x
② Kit assiale Axial kit	x	x	x
③ Calettatore Keyless Locking Device	x		x
④ Albero di torsione Torsion shaft	x		x
⑤ Carro aggiuntivo Additional carriage	x		x
⑥ Giunto elastico Elastic coupling	x		
⑦ Freno 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/Camma	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.



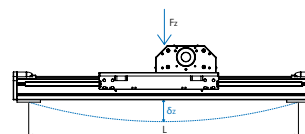
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.
The technical department is available for the evaluation of special applications and for detailed analysis.

MODELLO / MODEL
VER120FBS

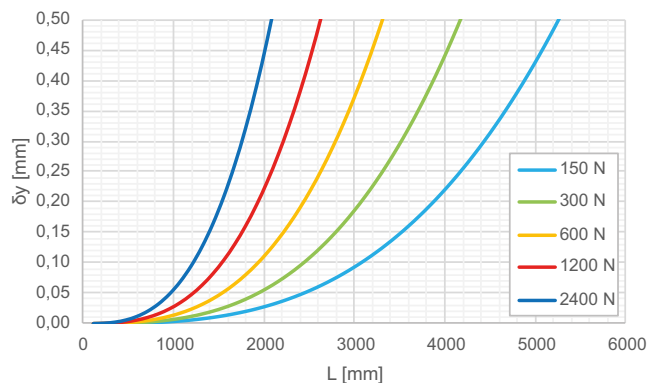
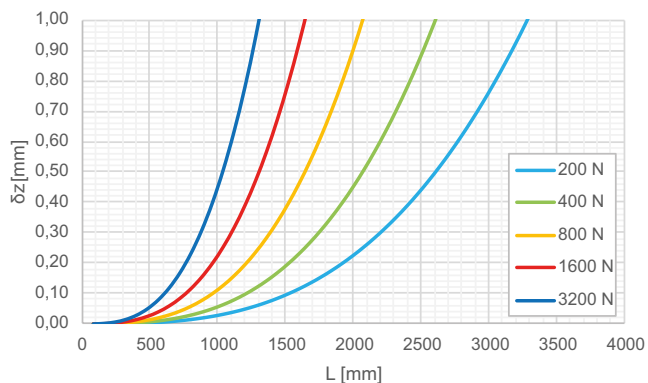


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

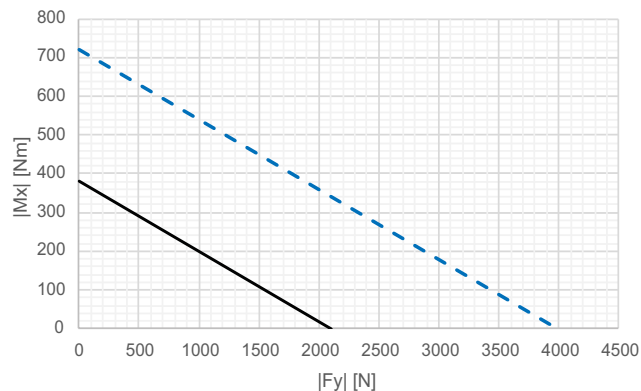
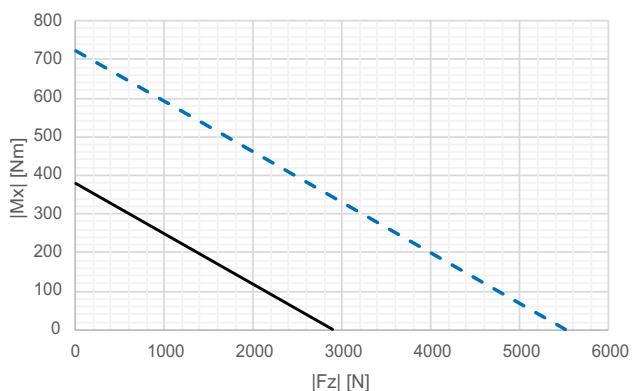
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

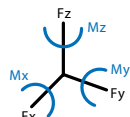


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

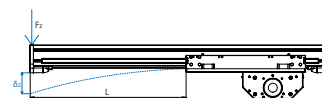
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
In case of combined stress contact our technical department.

MODELLO / MODEL
VER120FBS

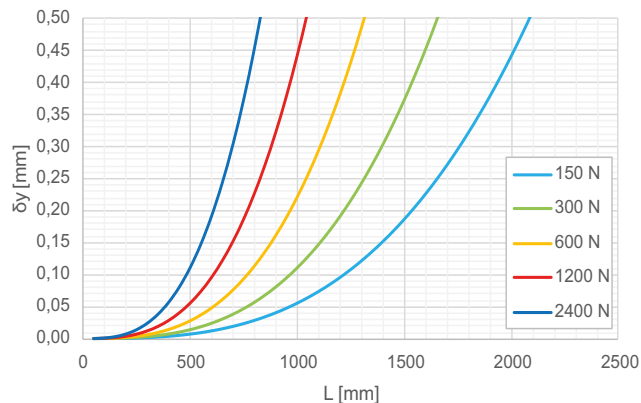
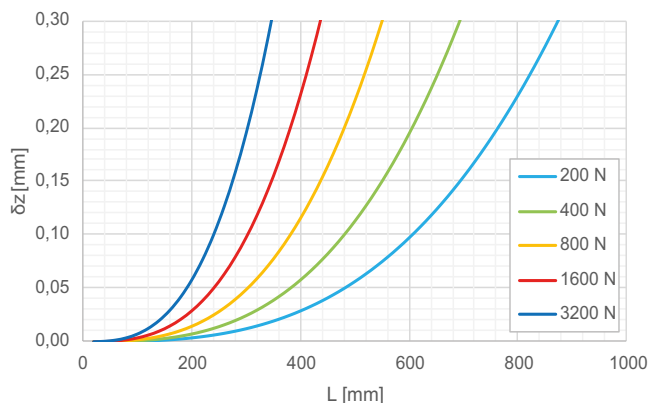


Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

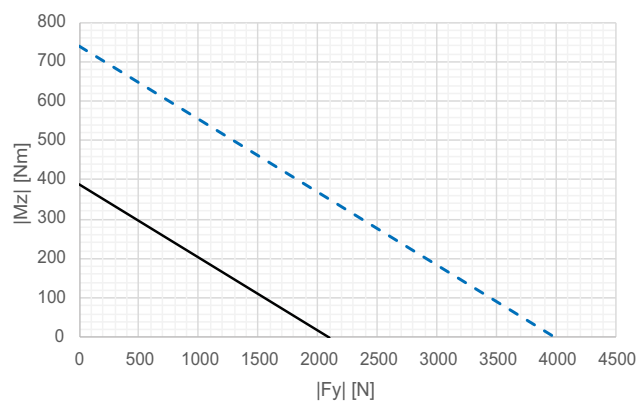
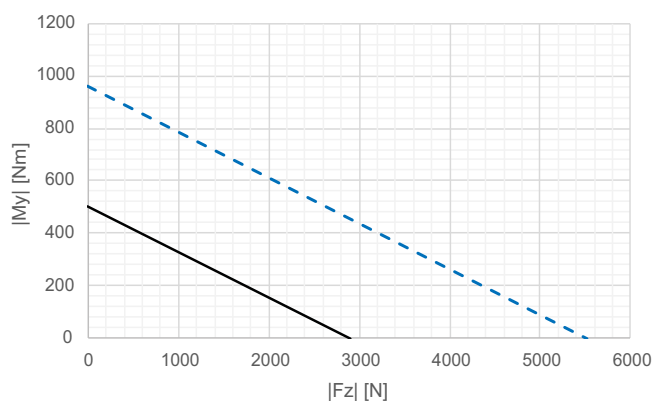
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 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.

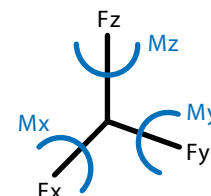
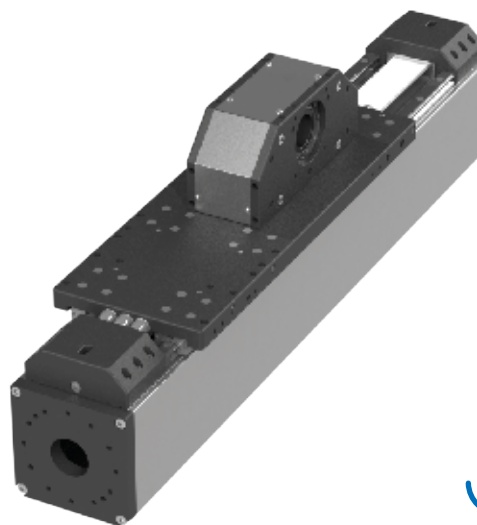
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MODELLO / MODEL
VER150FBS

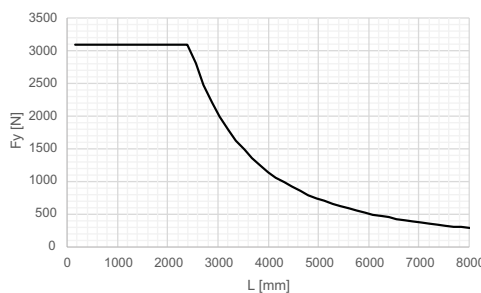
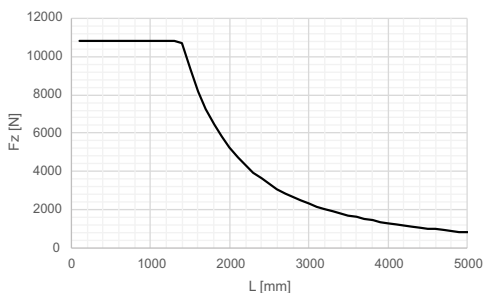
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	27
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	1,7
Massa carro <i>Carriage's mass</i>	[Kg]	12,5
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	220
Taglia cinghia <i>Belt's size</i>	[-]	50 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	2892
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	2211
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	1962

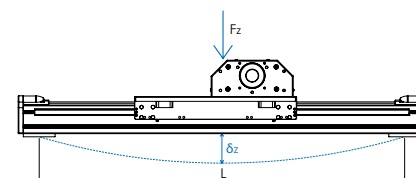
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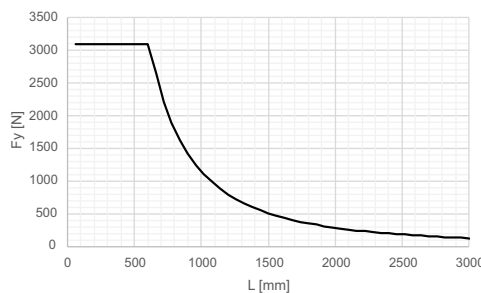
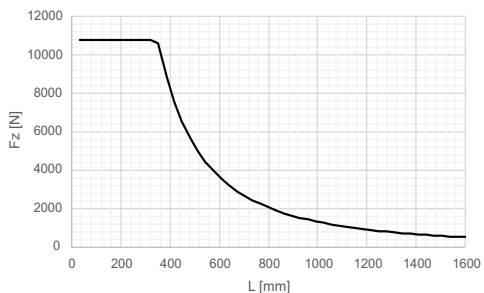
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



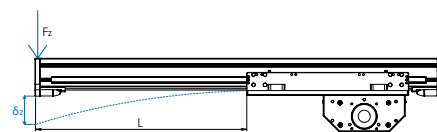
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

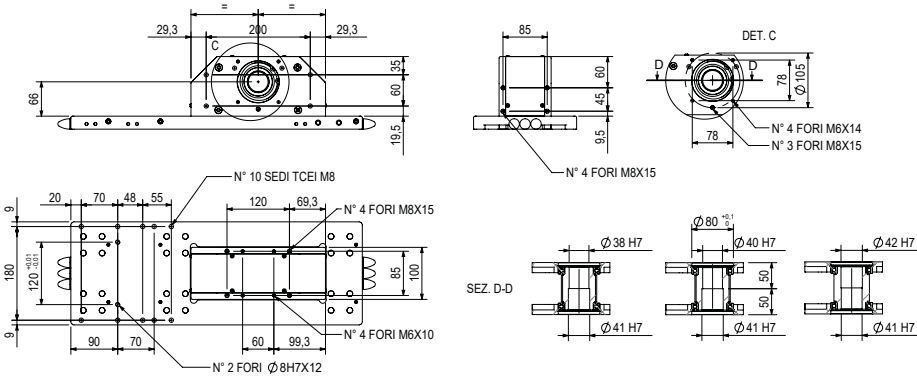
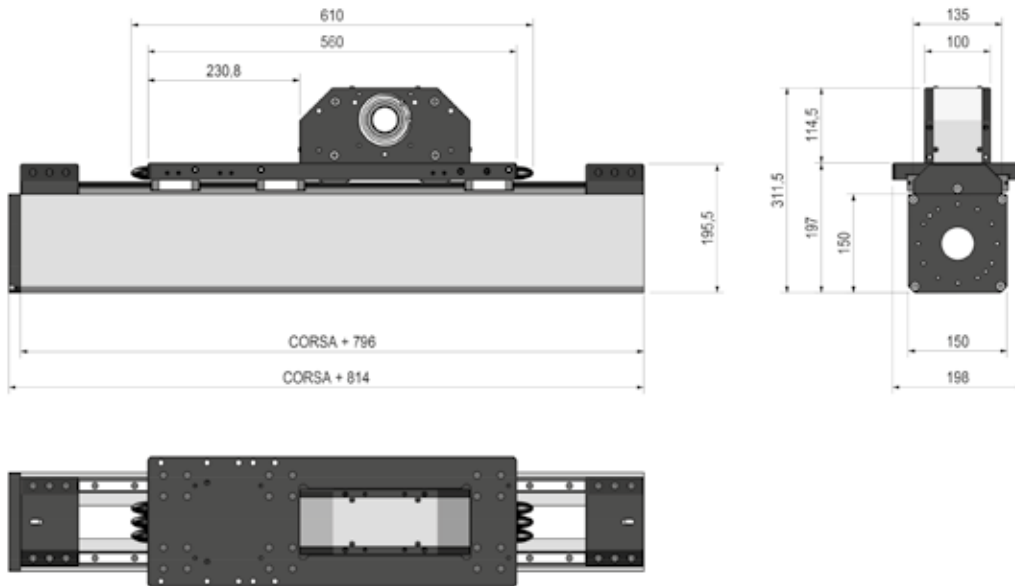


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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We recommend not to exceed the maximum values to avoid lower performance, a reduced reliability and a big wear of the components.

DIMENSIONI / DIMENSIONS



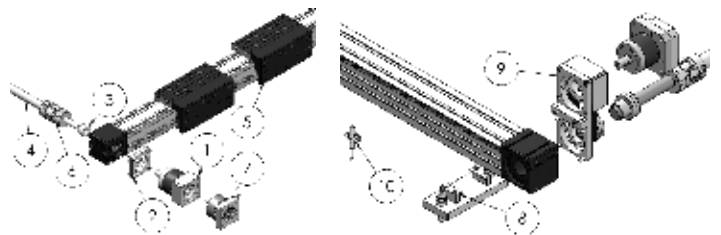
Tipologia interfaccia riduttore (2) (9)
Gearbox interface type
Kit IF30

Configurazioni puleggia
Pulley configurations

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

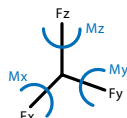
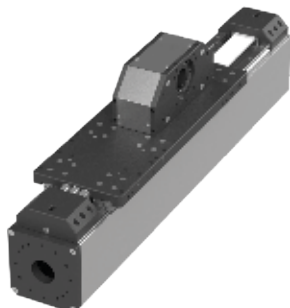
Le Unità Damo sono disponibili con una vasta gamma di accessori e optional specifici concepiti per facilitare la realizzazione e installazione di sistemi monoasse e multiasse.

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.



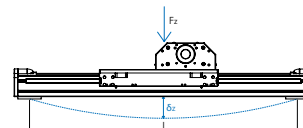
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.
The technical department is available for the evaluation of special applications and for detailed analysis.

MODELLO / MODEL
VER150FBS

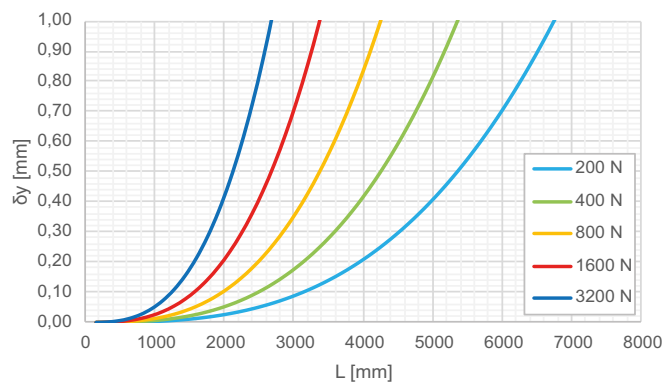
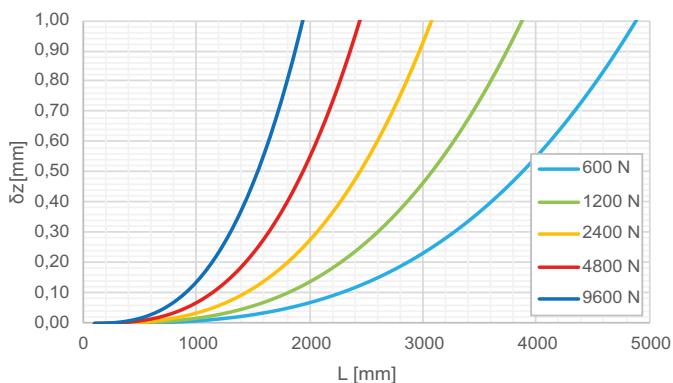


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

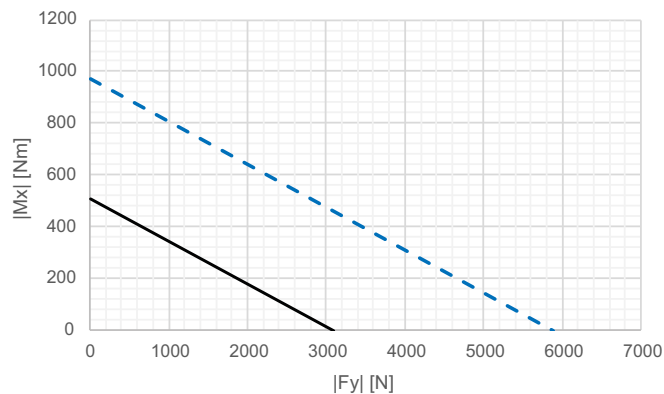
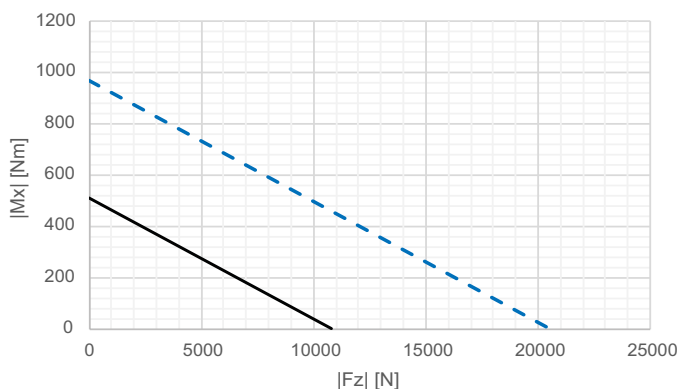
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

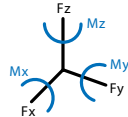
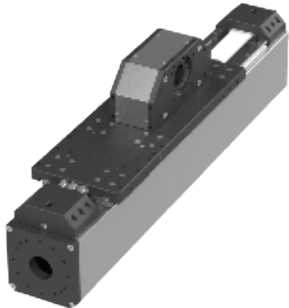


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

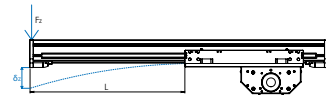
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.

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

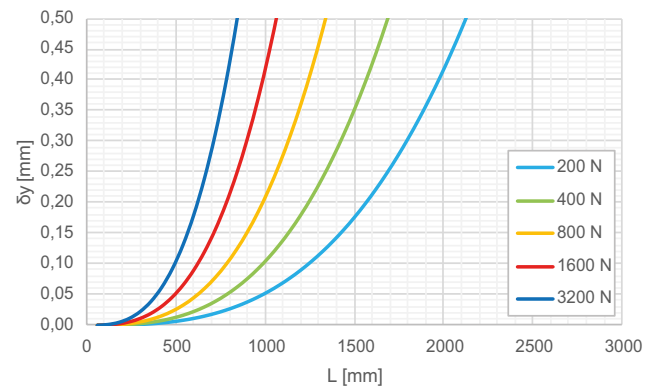
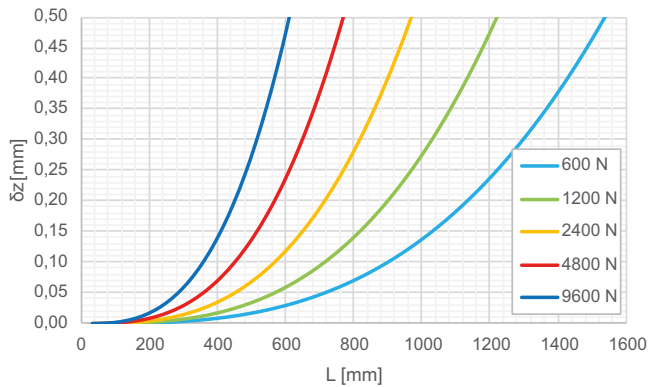
MODELLO / MODEL
VER150FBS



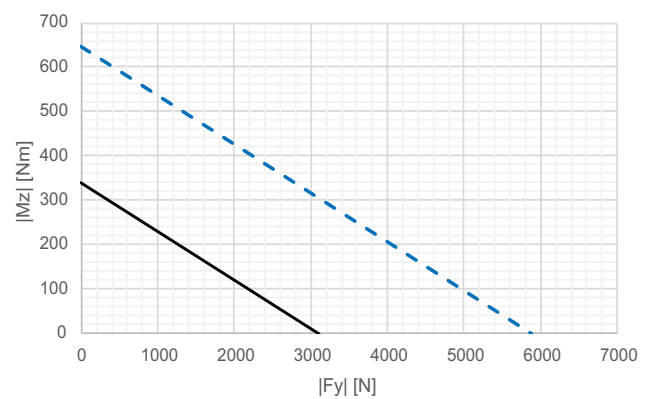
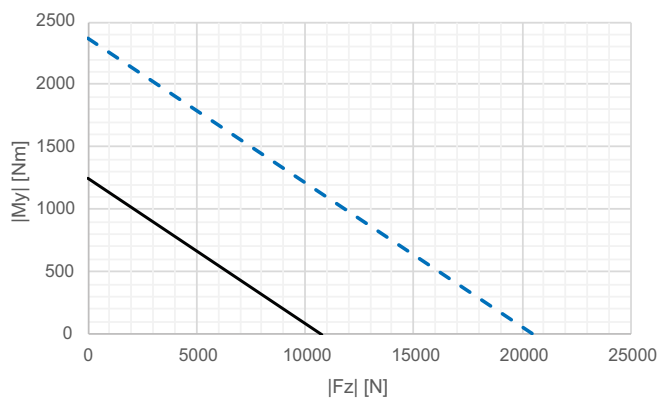
Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

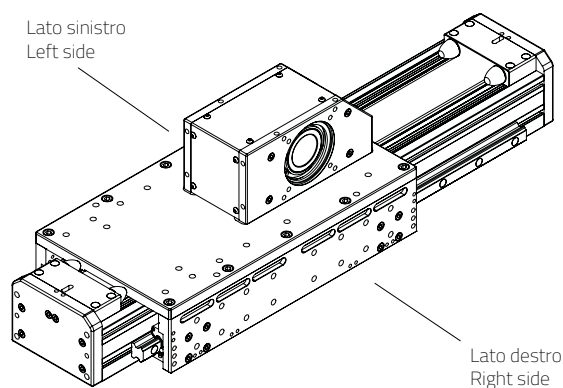


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and 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.
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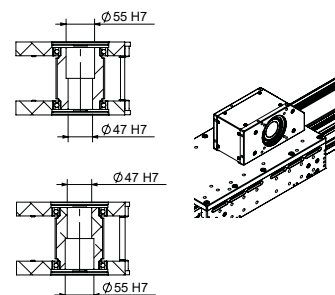
	VER	125	FBS	00800	-	XXX	-	XX
TIPO UNITÀ / MODEL								
VER	Unità lineare a cinghia dentata <i>Belt driven linear unit</i>							
TAGLIA / SIZE								
125	Profilo larghezza 120 mm <i>Profile width 120 mm</i>							
180	Profilo larghezza 180 mm <i>Profile width 180 mm</i>							
TIPOLOGIA CARRO / CARRIAGE TYPE								
FBS	Carro fisso biguida laterale e profilo mobile <i>Fixed carriage with lateral dual guide rail and mobile profile</i>							
CORSA UTILE UNITÀ (mm) / EFFECTIVE STROKE (mm)								
PULEGGIA (vedi versione puleggia) / PULLEY (view pulley version)								
TIPOLOGIA CONFIGURAZIONE / CONFIGURATION TYPE								
A	Configurazione standard <i>Standard configuration</i>							
C	Configurazione personalizzata <i>Custom configuration</i>							



VERSIONE PULEGGIA / PULLEY VERSION

PULEGGIA / PULLEY

D47	Puleggia con foro $\varnothing 47$ mm a destra e $\varnothing 55$ mm a sinistra <i>Pulley with hole $\varnothing 47$ mm on the right and $\varnothing 55$ mm on the left</i>
S47	Puleggia con foro $\varnothing 47$ mm a sinistra e $\varnothing 55$ mm a destra <i>Pulley with hole $\varnothing 47$ mm on the left and $\varnothing 55$ mm on the right</i>

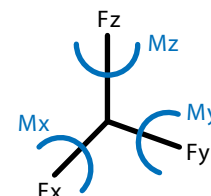
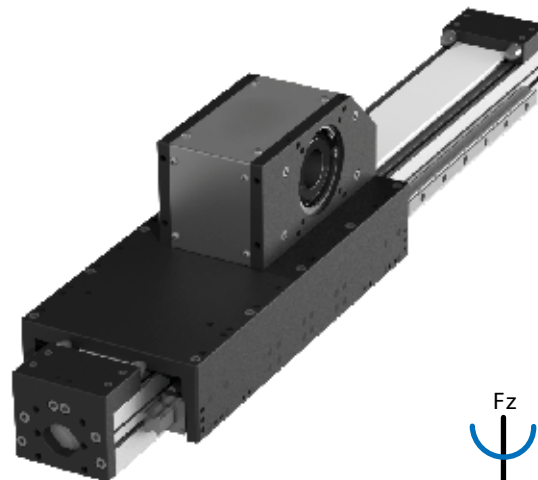


MODELLO / MODEL
VER125FBS

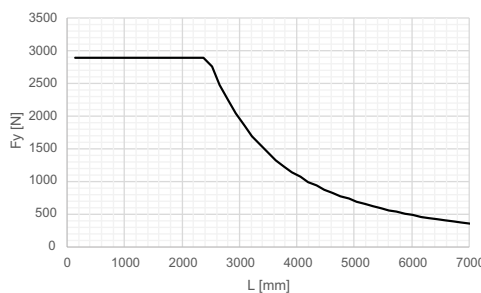
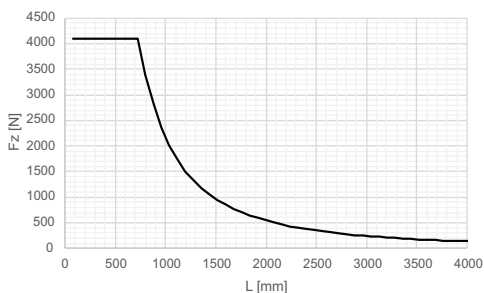
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	32,8
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	1,6
Massa carro <i>Carriage's mass</i>	[Kg]	21,59
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	300
Taglia cinghia <i>Belt's size</i>	[-]	75 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	4646
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	212
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	1392

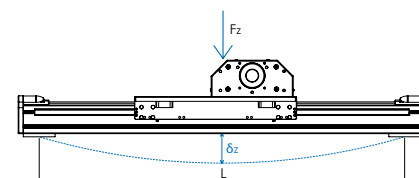
* I valori sono da considerarsi indicativi.
Prestazioni superiori sono possibili e vanno verificate col nostro ufficio tecnico.
*Values should be considered as an indication.
Higher performance are possible. Please contact our technical department.*



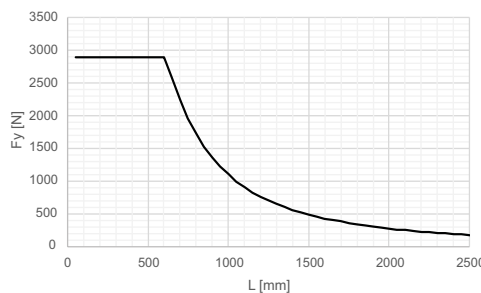
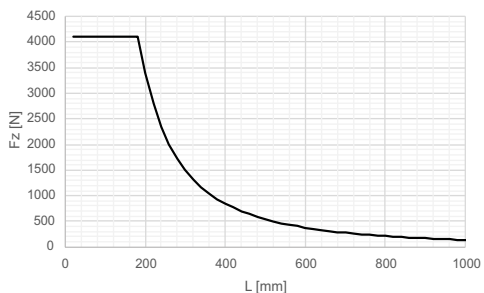
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



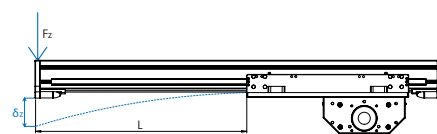
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

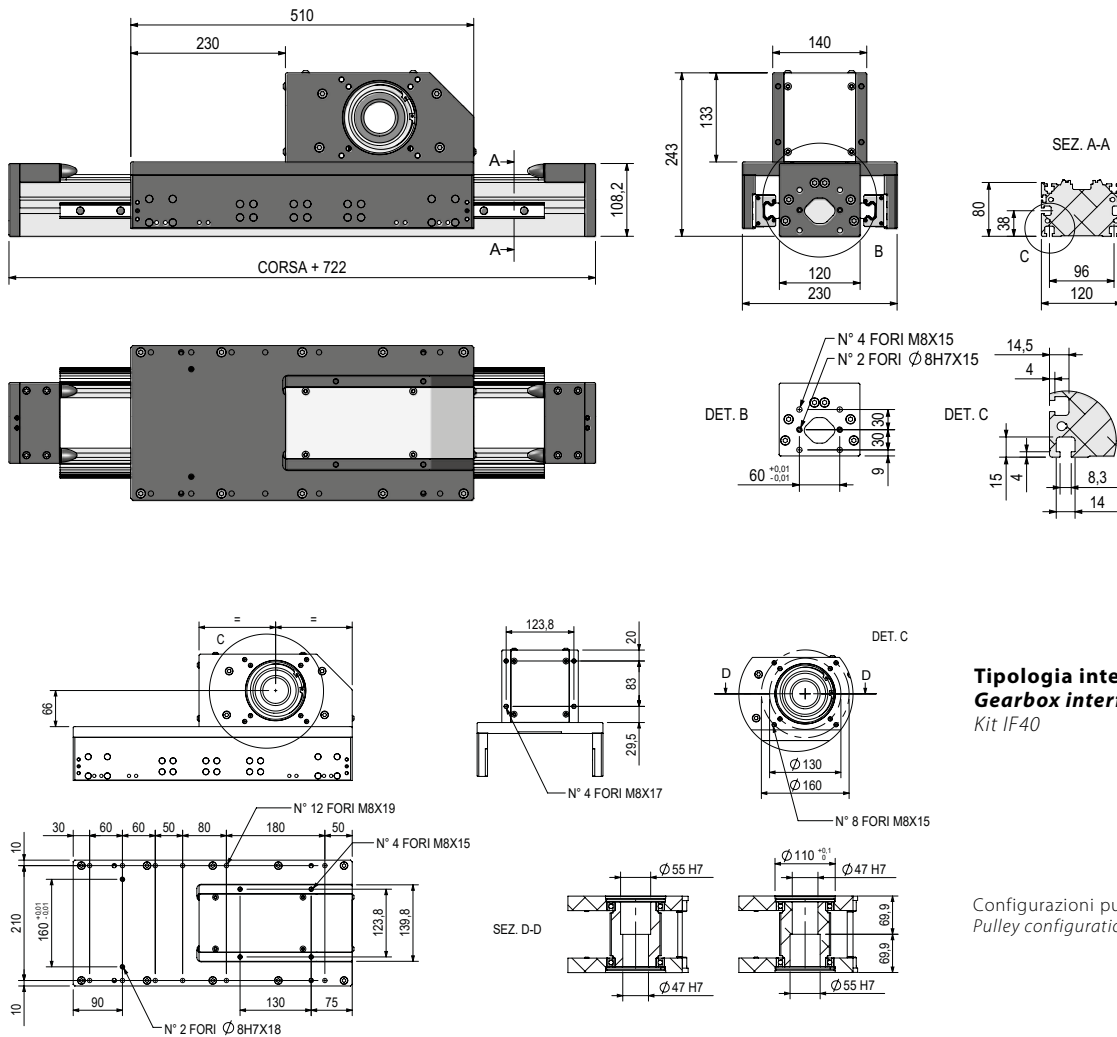


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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

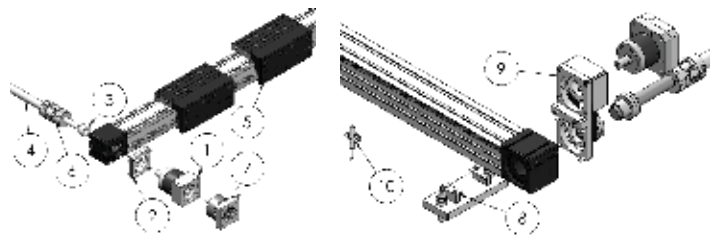


Tipologia interfaccia riduttore (2)
Gearbox interface type
Kit IF40

Configurazioni puleggia
Pulley configurations

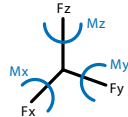
Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema di Cremagliera rack and pinion
① Riduttore Gearbox	x	x	x
② Kit assiale Axial kit	x	x	x
③ Calettatore Keyless Locking Device	x		x
④ Albero di torsione Torsion shaft	x		x
⑤ Carro aggiuntivo Additional carriage	x		x
⑥ Giunto elastico Elastic coupling	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/Camma	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.



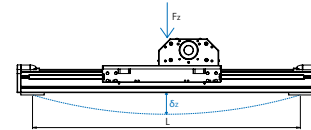
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MODELLO / MODEL
VER125FBS

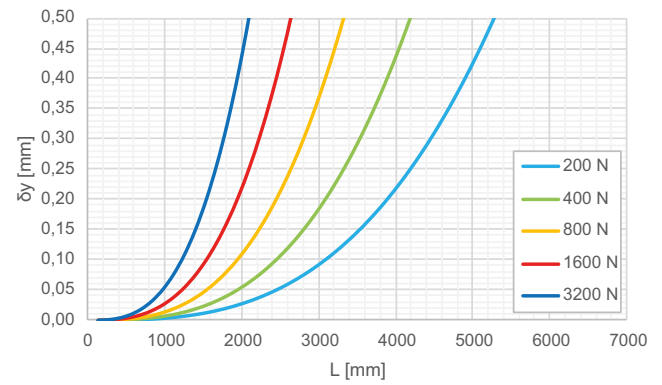
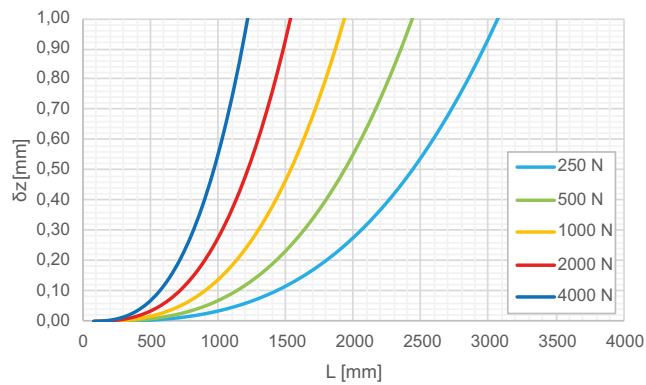


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

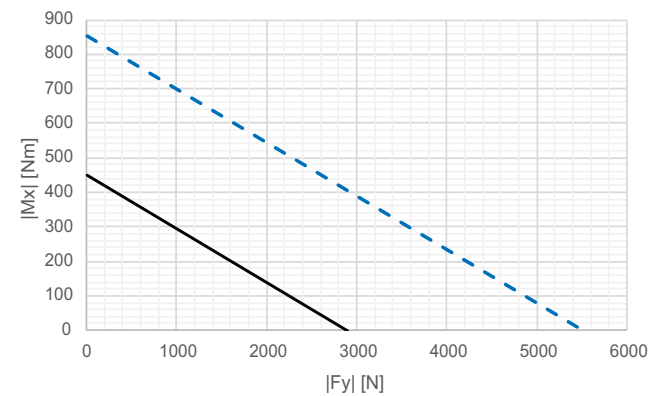
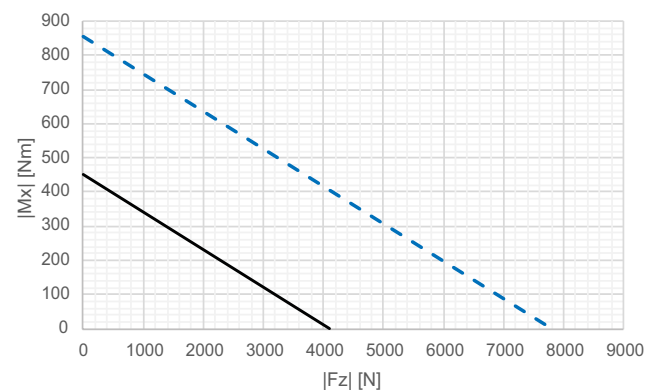
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

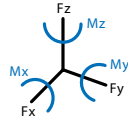


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

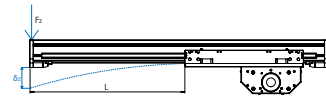
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.

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

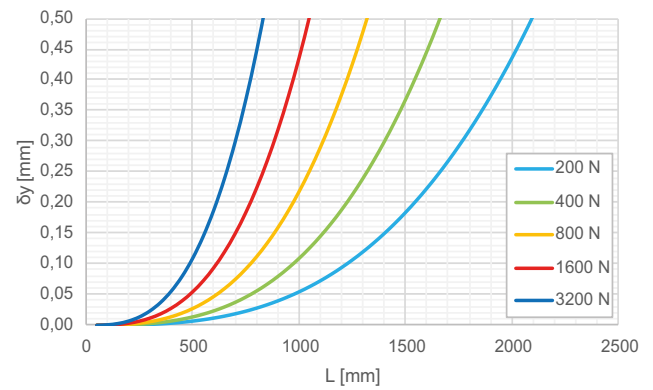
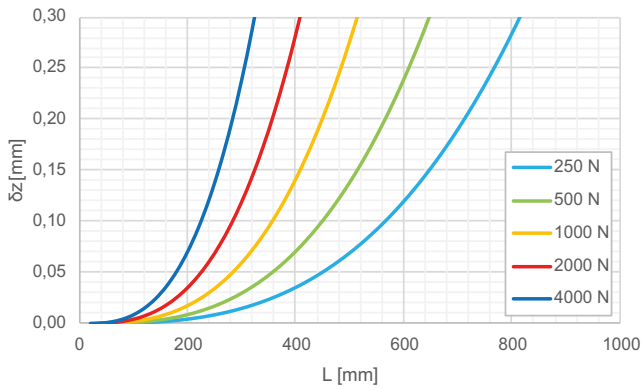
MODELLO / MODEL
VER125FBS



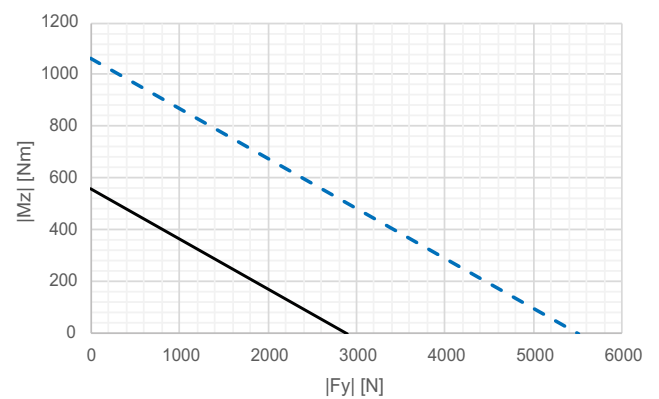
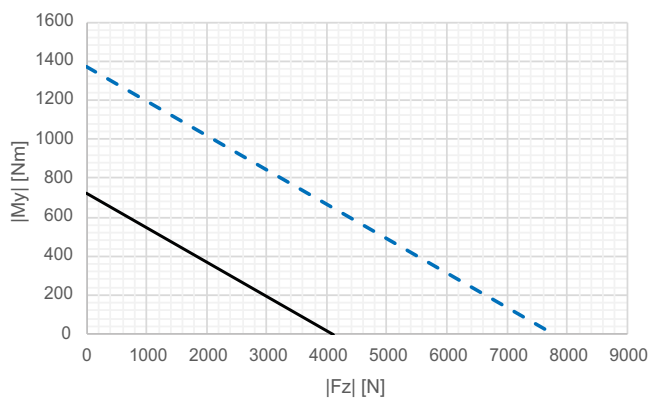
Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
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--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.

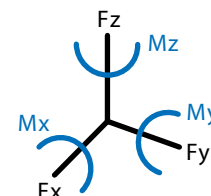
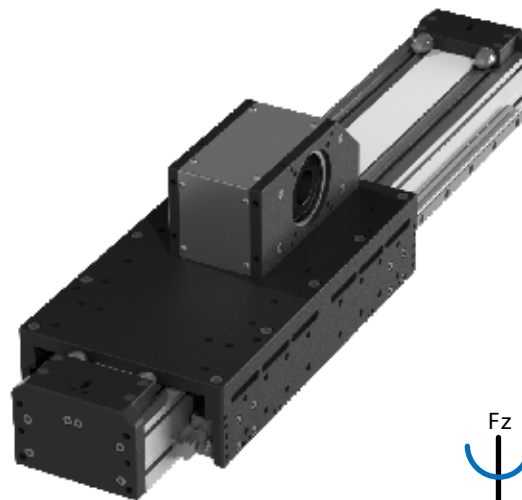
Per casi di sollecitazione composta si faccia riferimento all'ufficio tecnico.
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MODELLO / MODEL
VER180FBS

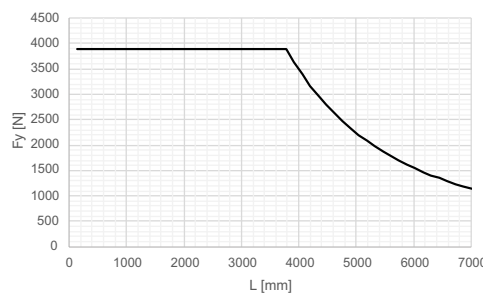
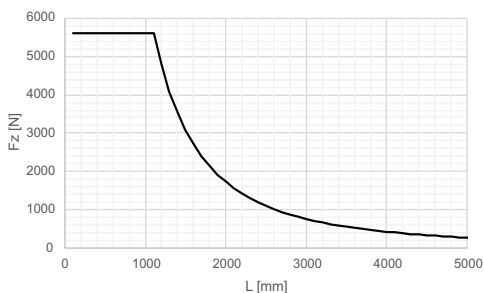
INFORMAZIONI TECNICHE / TECHNICAL INFORMATION

Massa base unità (corsa zero) <i>Unit's base mass (zero stroke)</i>	[Kg]	36,68
Massa lineare unità <i>Unit's linear mass</i>	[Kg/100mm]	2,1
Massa carro <i>Carriage's mass</i>	[Kg]	18,78
Velocità massima* <i>Maximum velocity</i>	[m/s]	4
Ripetibilità a vuoto <i>Unloaded repeatability</i>	[mm]	0,1
Sviluppo puleggia <i>Pulley's circumference</i>	[mm/giro]	300
Taglia cinghia <i>Belt's size</i>	[-]	75 AT 10
Forza massima di trazione sulla cinghia* <i>Maximum traction force on belt</i>	[N]	4646
Momento principale d'inerzia Y <i>Principal moment of inertia Y</i>	[cm ⁴]	700
Momento principale d'inerzia Z <i>Principal moment of inertia Z</i>	[cm ⁴]	5991

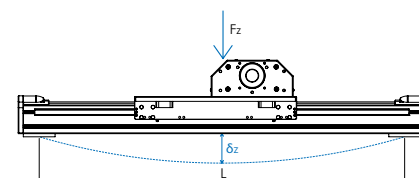
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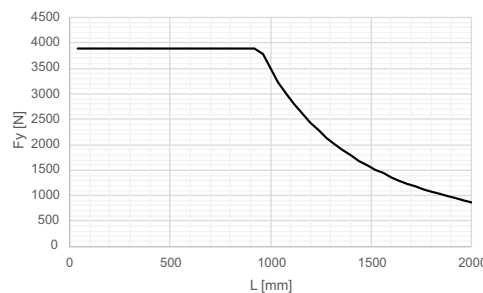
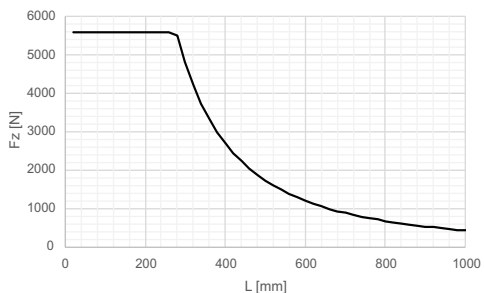
CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD



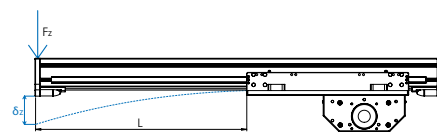
Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria.
Maximum load in isostatic condition centrally loaded.



CARICO MASSIMO AMMISSIBILE / MAXIMUM PERMISSIBLE LOAD

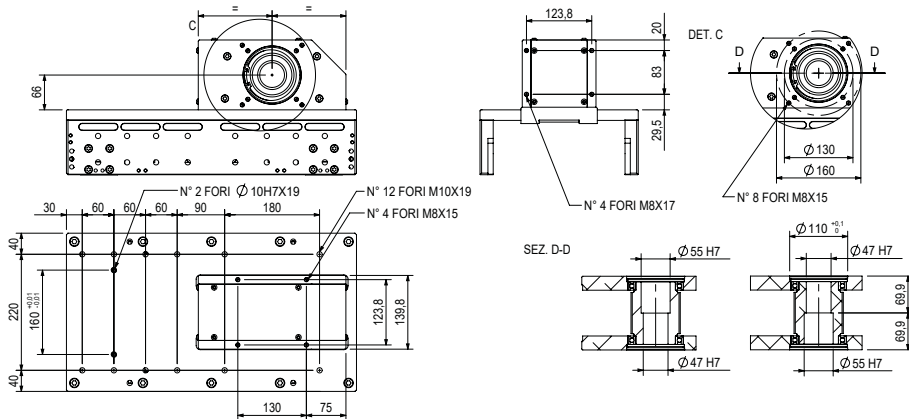
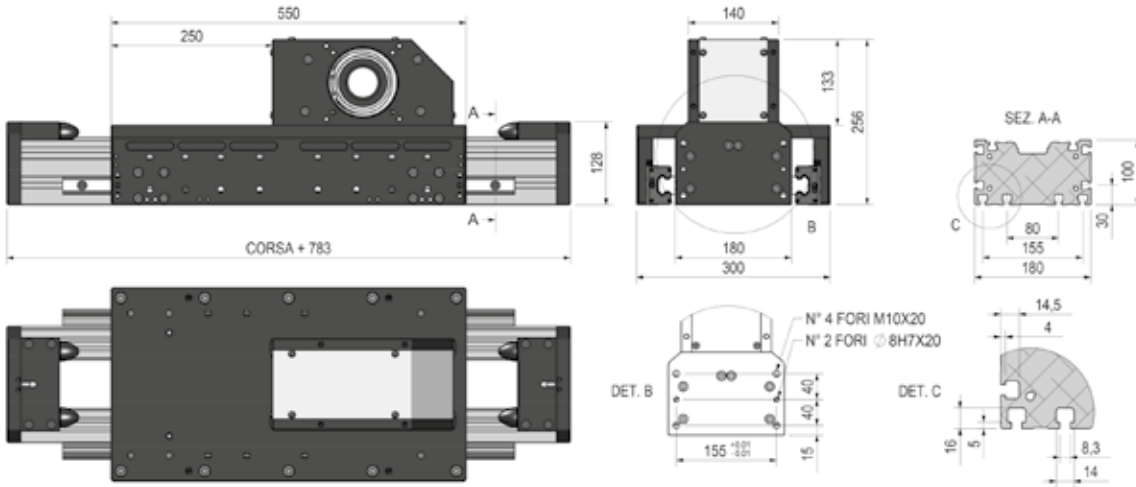


Sono rappresentati i carichi massimi applicabili in condizioni isostatiche, con vincolo rigido e carico all'estremità.
Maximum load in an isostatic cantilever loaded condition.



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DIMENSIONI / DIMENSIONS

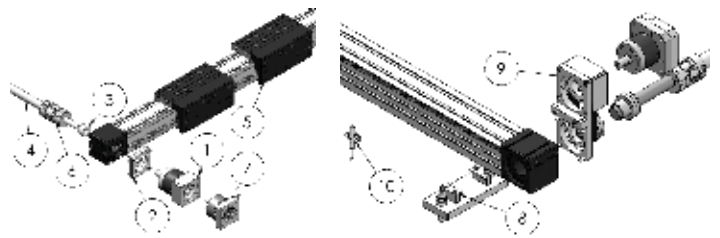


Tipologia interfaccia riduttore (2)
Gearbox interface type
Kit IF40

Configurazioni puleggia
Pulley configurations

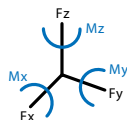
Accessori Accessories	Cinghia Belt	Vite Ball screw	Crema di Cremagliera Rack and pinion
① Riduttore Gearbox	x	x	x
② Kit assiale Axial kit	x	x	x
③ Calettatore Keyless Locking Device	x		x
④ Albero di torsione Torsion shaft	x		x
⑤ Carro aggiuntivo Additional carriage	x		x
⑥ Giunto elastico Elastic coupling	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/Camma	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.



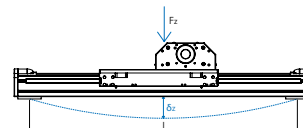
L'ufficio tecnico è a disposizione per la valutazione di applicazioni speciali e per analisi approfondite.
The technical department is available for the evaluation of special applications and for detailed analysis.

MODELLO / MODEL
VER180FBS

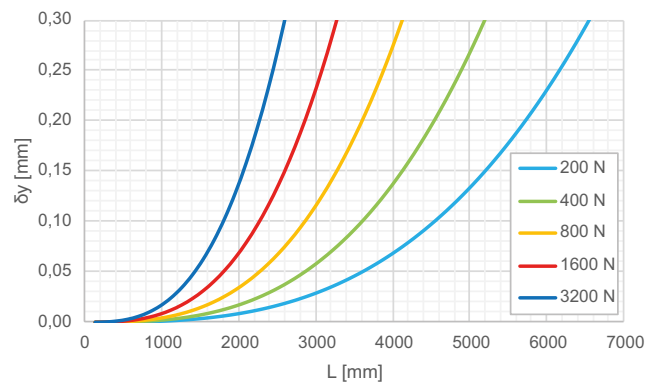
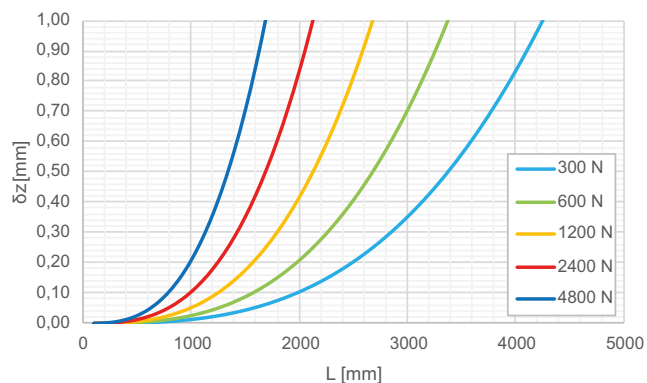


Sono rappresentate le deformazioni massime in condizioni isostatiche, in appoggio, con vincolo torsionale semplice e carico in mezzzeria. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.

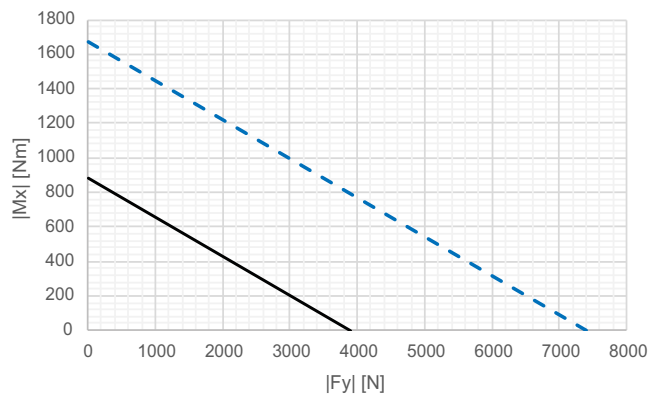
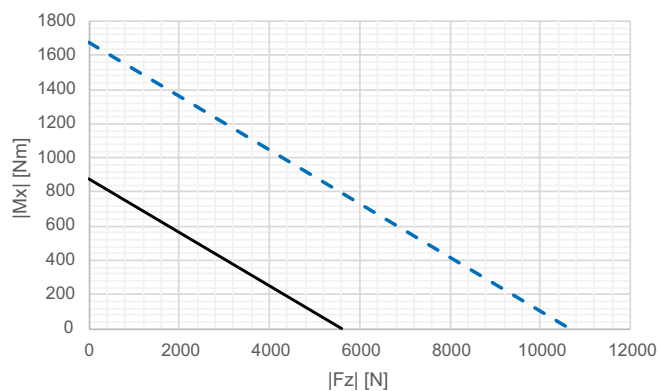
Maximum deflection in isostatic condition centrally loaded. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS

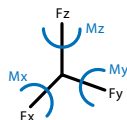


— Limite rottura a fatica: vita stimata superiore ai 10×10^6 cicli col 99% probabilità. I grafici non possono essere combinati e valgono per: $|M_x| \leq 0.1 |M_y|$ e $|M_x| \leq 0.1 |M_z|$.
Fatigue limit: estimated lifetime higher than 10×10^6 cycles with 99% probability. Charts cannot be combined and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

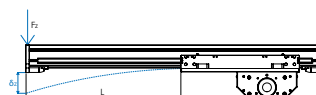
--- Arresto d'emergenza max 100 volte nel corso della vita del prodotto.
Emergency stop max 100 times during service life.

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

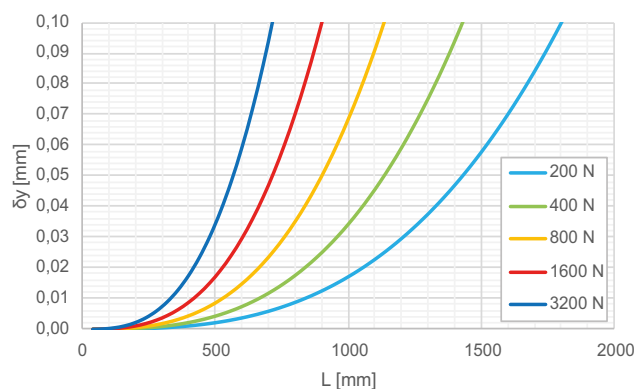
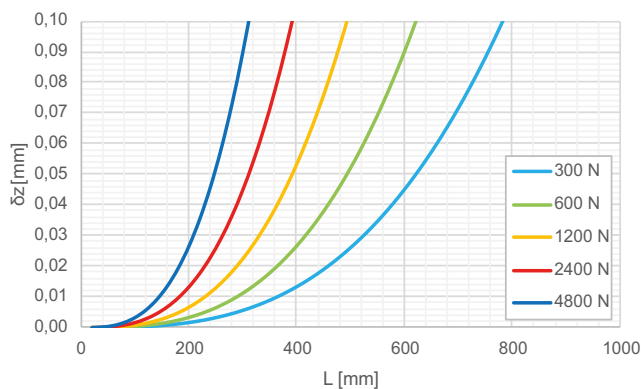
MODELLO / MODEL
VER180FBS



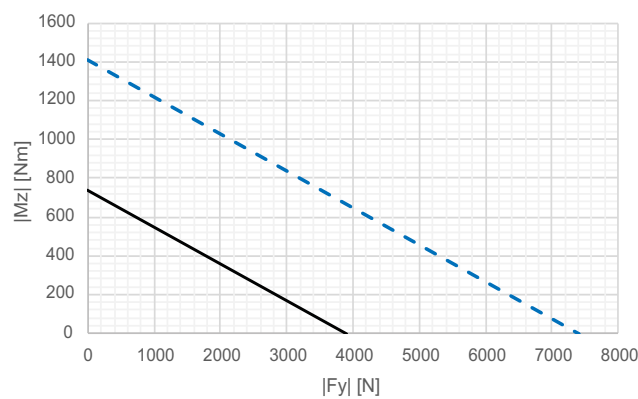
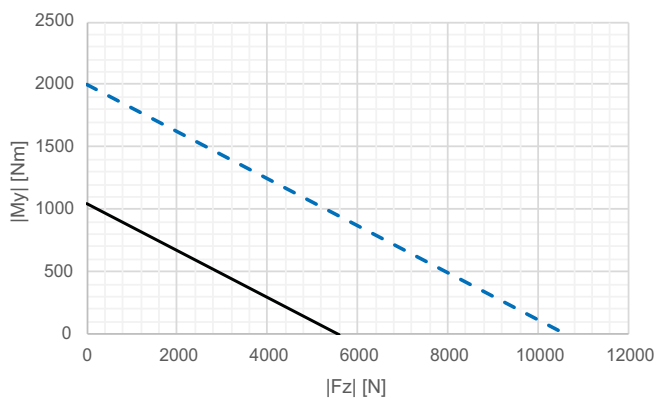
Sono rappresentate le deformazioni massime in condizioni isostatiche, con vincolo rigido e carico all'estremità. La deformazione effettiva dipende dalle condizioni di vincolo e dalla combinazione di carico.
Maximum deflection in an isostatic cantilever loaded condition. Actual strain depends on constraint condition and load combination.



DEFORMAZIONE ELASTICA / ELASTIC DEFORMATION



LIMITI STRUTTURALI / STRUCTURAL LIMITS



— Limite rottura a fatica: vita stimata superiore ai 10×10^6 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 10×10^6 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.