

**Screw driven guided linear unit**

Linearantrieb mit Rundspindel und integrierter Kugelumlaufführung  
Attuatori lineari a vite e guida a ricircolo di sfere

**TECHNICAL DATA | TECHNISCHE DATEN | DATI TECNICI**

Size - Baugröße - Taglia			55x60		
Max. speed* - Max. Geschwindigkeit* - Velocità max*	m/s		1		
Max. stroke length - Max. Hub - Corsa max	mm	1000	1250	1500	
Min. stroke length - Min. Hub - Corsa min	mm	100	100	100	
Pitch - Spindelsteigung - Passo vite	mm	5	10	16	
Screw diameter - Spindeldurchmesser - Diametro vite	mm	16			
Base weight - Gewicht bei 0mm Hub - Peso corsa 0 mm	Kg	3,2			
Add for 100 mm of stroke - Gewicht bei 100mm Hub - Peso corsa 100 mm	Kg	0,6			
Max. load** - Max. Belastung ** - Carico max**	Fx	N	1850	1420	1025
	Fy	N	4500	4500	4500
	Fz	N	4500	4500	4500
Moments* - Max. Belastungsmoment* - Momenti max*	Mx	Nm	395		
	My	Nm	480		
	Mz	Nm	480		
Inertia moment Aluminum profile - Flächenträgheitmoment - Momento d'inerzia profilo	Ix	cm <sup>4</sup>	47,3		
Inertia moment Aluminum profile - Flächenträgheitmoment - Momento d'inerzia profilo	Iy	cm <sup>4</sup>	49,5		
Repeatability - Wiederholgenauigkeit - Ripetibilità	mm	± 0,02			
Screw class - klasse Kugelgewinde - Classe vite**		T7			
No load torque - Leerlaufmoment - Coppia resistente	Nm	0,2	0,15		

\* It depends from stroke and the spindle pitch  
\* In Abhängigkeit von Hub und Spindelsteigung  
\* Valore indicativo, dipende dalla corsa e dal passo vite

\*\* Max values for dynamic conditions. Please refer to the following formula when combined loads are applied.

\*\* Für die Ermittlung der maximalen dynamischen Tragzahlen bei kombinierten Kraftangriffspunkten, nutzen Sie bitte die nebenstehende Berechnungsformel.

\*\* Valori massimi in condizioni dinamiche. In presenza di carichi combinati riferirsi alla formula per la verifica dei carichi massimi da applicare.

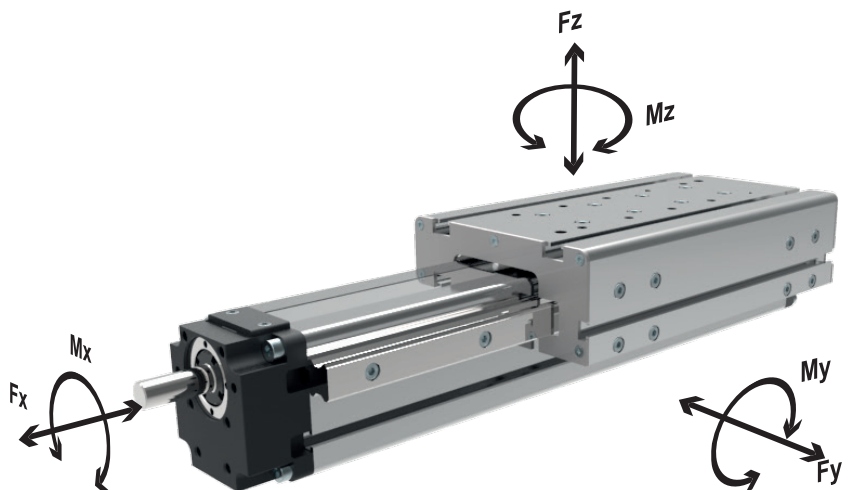
$$\frac{F_{yA}}{F_y} + \frac{F_{zA}}{F_z} + \frac{M_{xA}}{M_x} + \frac{M_{yA}}{M_y} + \frac{M_{zA}}{M_z} \leq 1$$

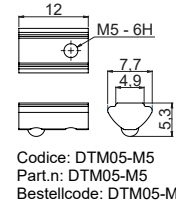
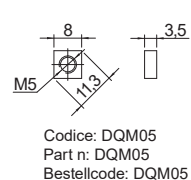
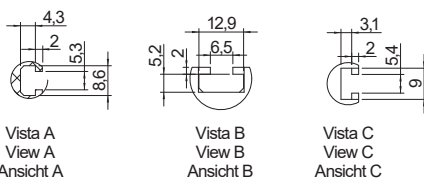
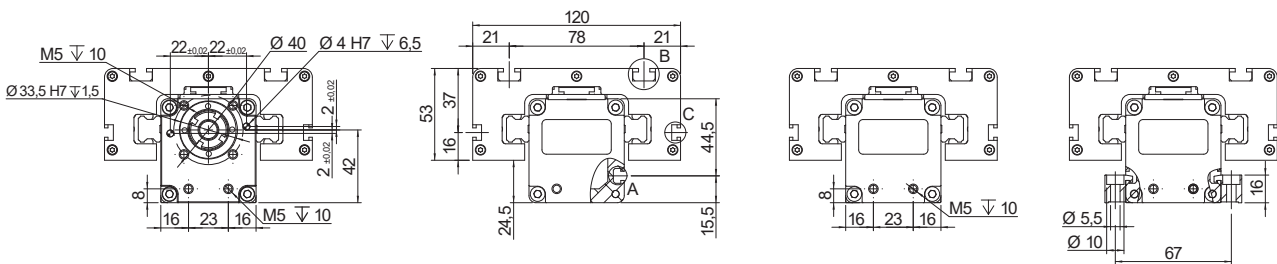
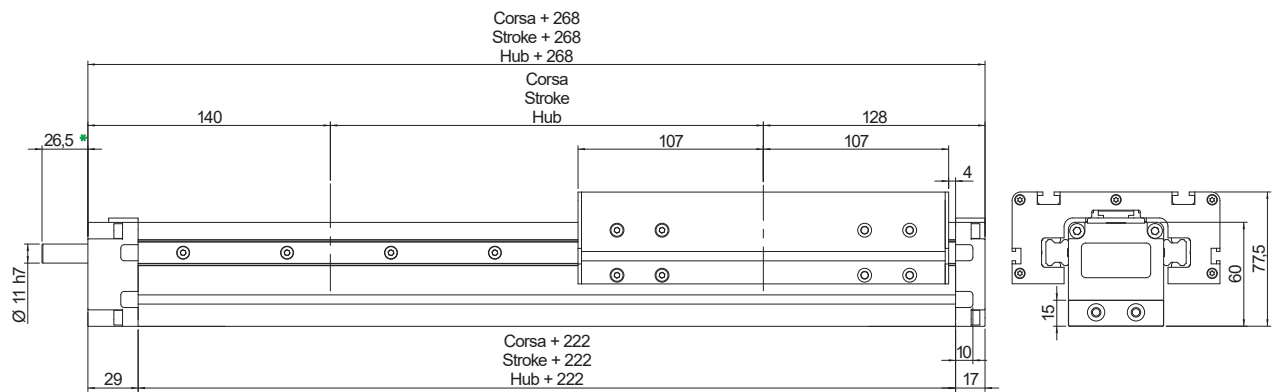
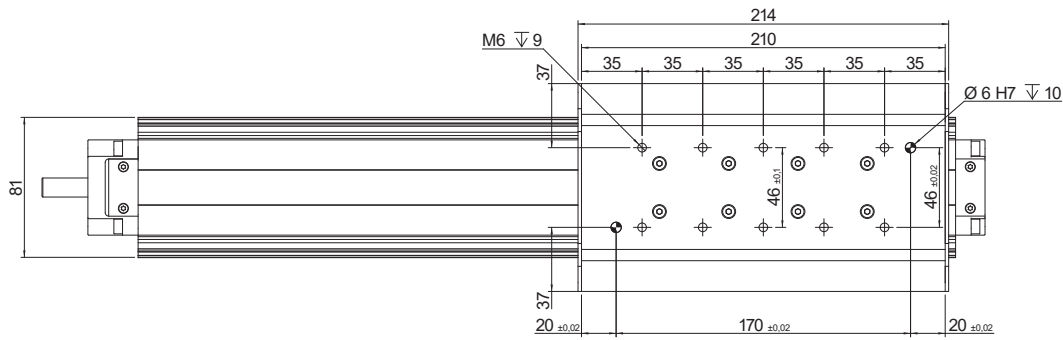
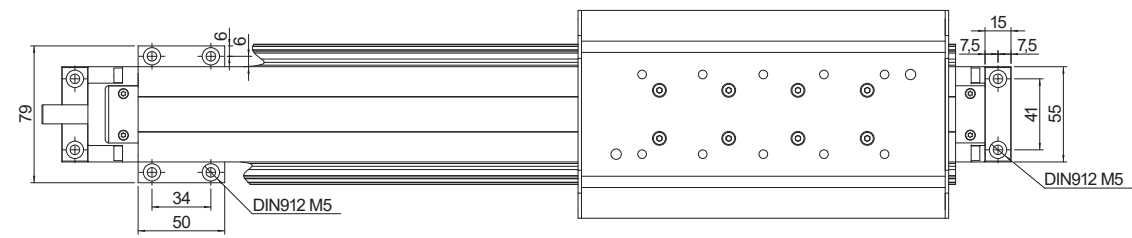
The A letters show the calculated value.  
Der A Parameter entspricht dem errechneten Wert.  
La lettera A indica i valori complessivi calcolati

\*\*\* Different types of screws are available, rolled or ground with different tolerances and trapezoidal screws.

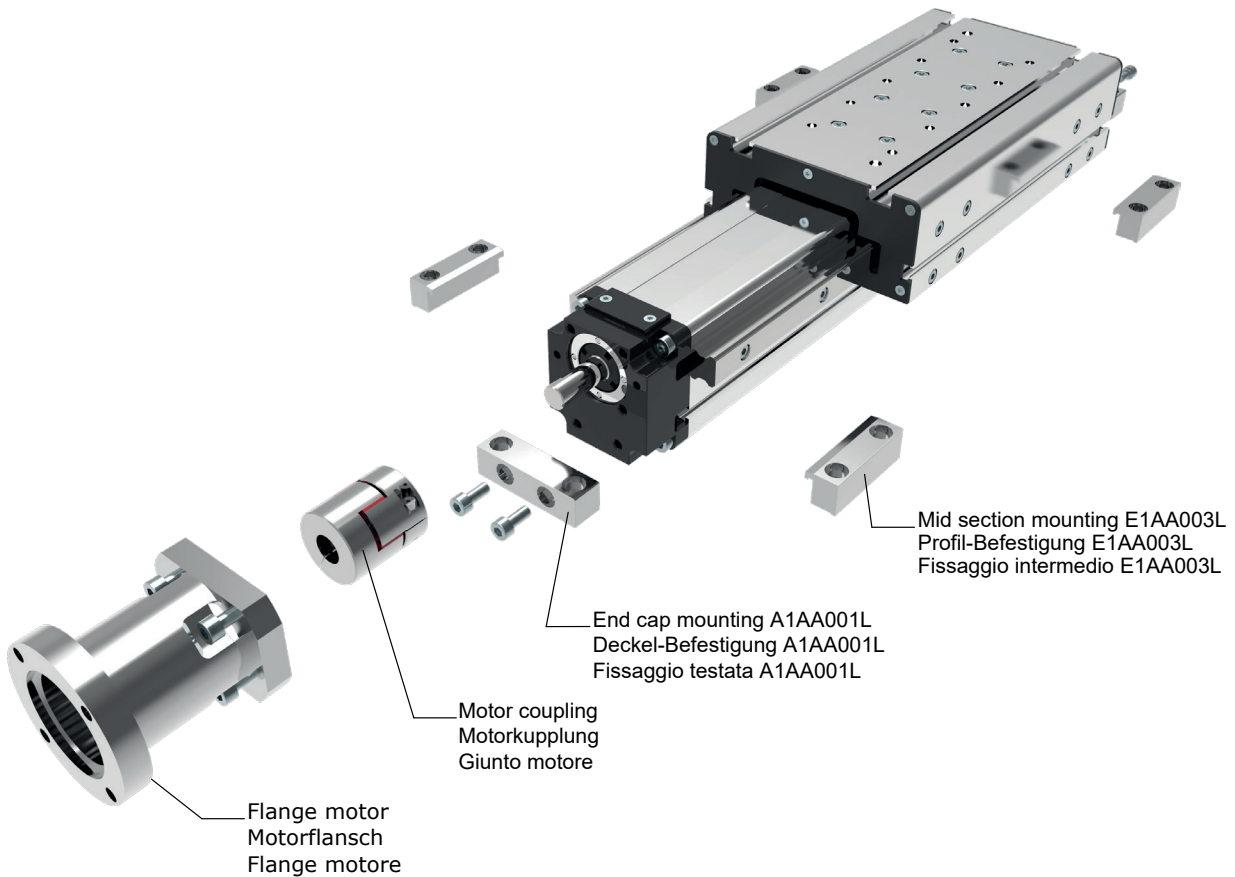
\*\*\* Verschiedene Spindelvarianten sind verfügbar. Kugellrollspindeln geschliffen in verschiedenen Genauigkeitsklassen sowie Trapezspindeln.

\*\*\* Tipologie di viti disponibili: rullate, rettificata con diversi classi di precisione e trapezoidali.





Misura suscettibile di modifica su richiesta del cliente  
 Measure likely to change according to customer request  
 Messen sich wahrscheinlich ändern nach Kundenwunsch



**ORDERING INFORMATION** | Bestallangaben Baureihe | Codici per l'ordinazione

<sup>1</sup>Proximity switch A9AA003\_... | <sup>1</sup>Magnetschalter A9AA003\_... | <sup>1</sup>Sensore di prossimità A9AA003\_...

Part nr.   Ident nr.   Cod.	Cable   Kabel   Cavo	Output   Ausgangfunktion   Uscita
A9AA003_01	with 2 mt cable   mit 2 mt kabel   con cavo 2 mt	PNP
A9AA003_02	with 2 mt cable   mit 2 mt kabel   con cavo 2 mt	NPN
A9AA003_03	200 mm with M8 plug in   mit 200 mm kabel und M8 stecker   200 mm conn. M8	PNP
A9AA003_04	200 mm with M8 plug in   mit 200 mm kabel und M8 stecker   200 mm conn. M8	NPN
A9AA003_NC	with 2 mt cable   mit 2 mt kabel   con cavo 2 mt	NC

**MVS55-0500-16 05-R A**

**Series MVS**  
Serie MVS  
Serie MVS

**Size 55x60**  
Baugröße 55x60  
Grandezza 55x60

**Stroke mm**  
Hub mm  
Corsa mm

**Screw diam.**  
Durchmesser Spindel  
Dim. Vite Ø16 mm

**Screw pitch**  
Spindelsteigung  
Passo vite  
05 = 5 mm  
10 = 10 mm  
16 = 16 mm

**Shaft** | Versionen Antriebswelle | Versione Albero

A: Without key shaft | Ohne Passfeder | Senza chiavetta  
B: With key shaft | Mit Passfeder | Con sede chiavetta

**Screw type** | Spindeltyp | Vite tipo

R: Rolled screw with ball recirculating  
Kugelrollspindel | Rullata a ricircolo di sfere  
T: Trapezoidal screw | Trapez spindel | Vite trapezia  
G: Grounded | Kugelgewinde | Vite rettificata