



## Dispositivo di scorrimento lineare SLD.1

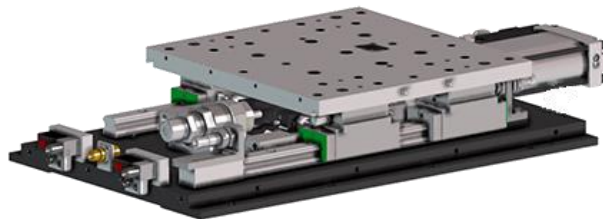
### Linear unit SLD.1

#### Caratteristiche principali:

- Corsa regolabile con intervalli di 1 mm
- Cilindro pneumatico con alesaggio 40, 50, 63, 80, 125 mm
- Sistema di bloccaggio ad innesto (SBI)
- Ripetibilità:  $\pm 0,01$  mm
- Posizione di bloccaggio in apertura e chiusura
- Frenatura cilindro in posizione di chiusura (standard)
- Deceleratore in posizione di apertura
- Sensori di posizione in apertura ed in chiusura
- Sensori induttivi di posizione SBI
- Ripari in lamiera o a soffietto

#### Main characteristics:

- Adjustable stroke with 1 mm intervals
- Pneumatic cylinder with 40, 50, 63, 80, 125 mm bore
- Graft lock system(SBI)
- Repeatability:  $\pm 0,01$  mm
- Locking position in the opening and closing status
- Cylinder cushion in the closing position (standard)
- Shock absorber in the opening position
- Proximity switches in the opening and closing position
- Proximity switches for SBI
- Metal shelter or bellows on the front side


[PDF](#)

[3D Step](#)

[WEB](#)

#### Indice.

#### Index.

Pagina Page	Descrizione Description	
1	Caratteristiche principali <a href="#">Main characteristics</a>	
2	Codice d'ordine Pagina dimensionale / <a href="#">Dimensional page</a> <a href="#">Ordering example</a>	
3	Pagina dimensionale <a href="#">Dimensional page</a>  Ripari + distributore Aria <a href="#">Cover + air connection adapter</a>	SLD40.1
4		SLD50.1
5		SLD63.1
6		SLD80.1
7		SLD125.1
8		
9		
10	Schema sensore induttivo SBI / Finecorsa <a href="#">Diagram for inductive sensor for SBI / Limit switch</a>	
11	Schema pneumatico <a href="#">Pneumatic plan</a>	
12	Ricambi / <a href="#">Spare parts</a>	
13	Note / <a href="#">Notes</a>	



## Codice d'ordine. Ordering example.

**SLD80.1 - 100/60 - Z - D - S1 - H**

**SLD40.1**  
alesaggio Ø 40 mm,  
4 carrelli, carico max. 40 Kg  
cylinder bore Ø 40 mm,  
4 runner blocks, max. load 40 Kg

**SLD50.1**  
alesaggio Ø 50 mm,  
4 carrelli, carico max. 75 Kg  
cylinder bore Ø 50 mm,  
4 runner blocks, max. load 75 Kg

**SLD63.1**  
alesaggio Ø 63 mm,  
4 carrelli, carico max. 150 Kg  
cylinder bore Ø 63 mm,  
4 runner blocks, max. load 150 Kg


**SLD80.1**  
alesaggio Ø 80 mm,  
4 carrelli, carico max. 250 Kg  
cylinder bore Ø 80 mm,  
4 runner blocks, max. load 250 Kg

**SLD125.1**  
alesaggio Ø 125 mm,  
4 carrelli, carico max. 600 Kg  
cylinder bore Ø 125 mm,  
4 runner blocks, max. load 600 Kg

**Deceleratore:  
Shock absorber:**

**X:** senza deceleratore  
in posizione d'apertura  
without damper in  
opening position

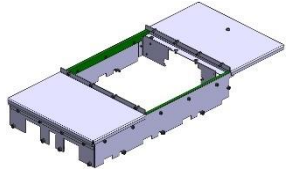
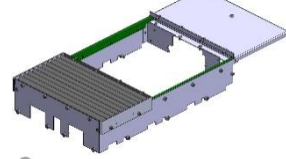
**D:** con deceleratore in  
posizione d'apertura  
with damper in opening  
position




**Riparo:  
Cover:**

**S1:** con riparo in lamiera  
completo  
with a complete sheet  
cover

**S3\*:** con riparo in lamiera  
completo e soffiutto  
anteriore  
with a complete sheet  
cover and bellows  
on the front side

 **\*Il riparo S3 è una costruzione speciale, ed è disponibile solo previa consultazione ed approvazione da parte di VEP Automation.**

**\*Cover type S3 is a special solution. Available only after consultation and approval of VEP Automation.**

Tipo Type	Corsa Adjustable stroke
50	1÷50 mm
100	51÷100 mm
150	101÷150 mm
200	151÷200 mm
300	201÷300 mm
400	301÷400 mm
500	401÷500 mm

**ATTENZIONE:**  
SLD40.1 è disponibile solo fino a corsa 300 mm.

**ATTENTION:**  
SLD40.1 is only available up to 300 mm stroke.

**La corsa è regolabile ad intervalli di 1mm.  
The stroke of the linear unit is adjustable with steps of 1mm.**

Tipologie standard / Standard types:

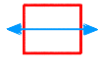
	50	100	150	200	300	---	---
<b>SLD40.1</b>	50	100	150	200	300	---	---
<b>SLD50.1</b>	50	100	150	200	300	400	500
<b>SLD63.1</b>	50	100	150	200	300	400	500
<b>SLD80.1</b>	50	100	150	200	300	400	500
<b>SLD125.1</b>	50	100	150	200	300	400	500

Tipologie 400 e 500 su richiesta / Types 400 e 500 on request

**Posizione di montaggio:  
Mounting position:**

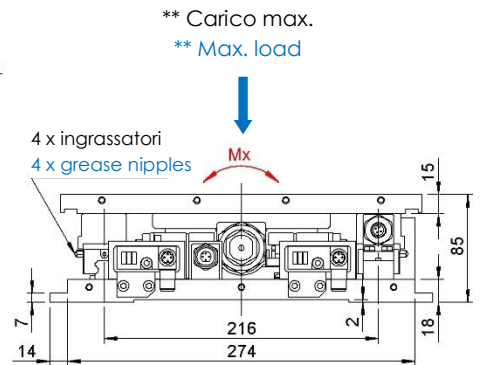
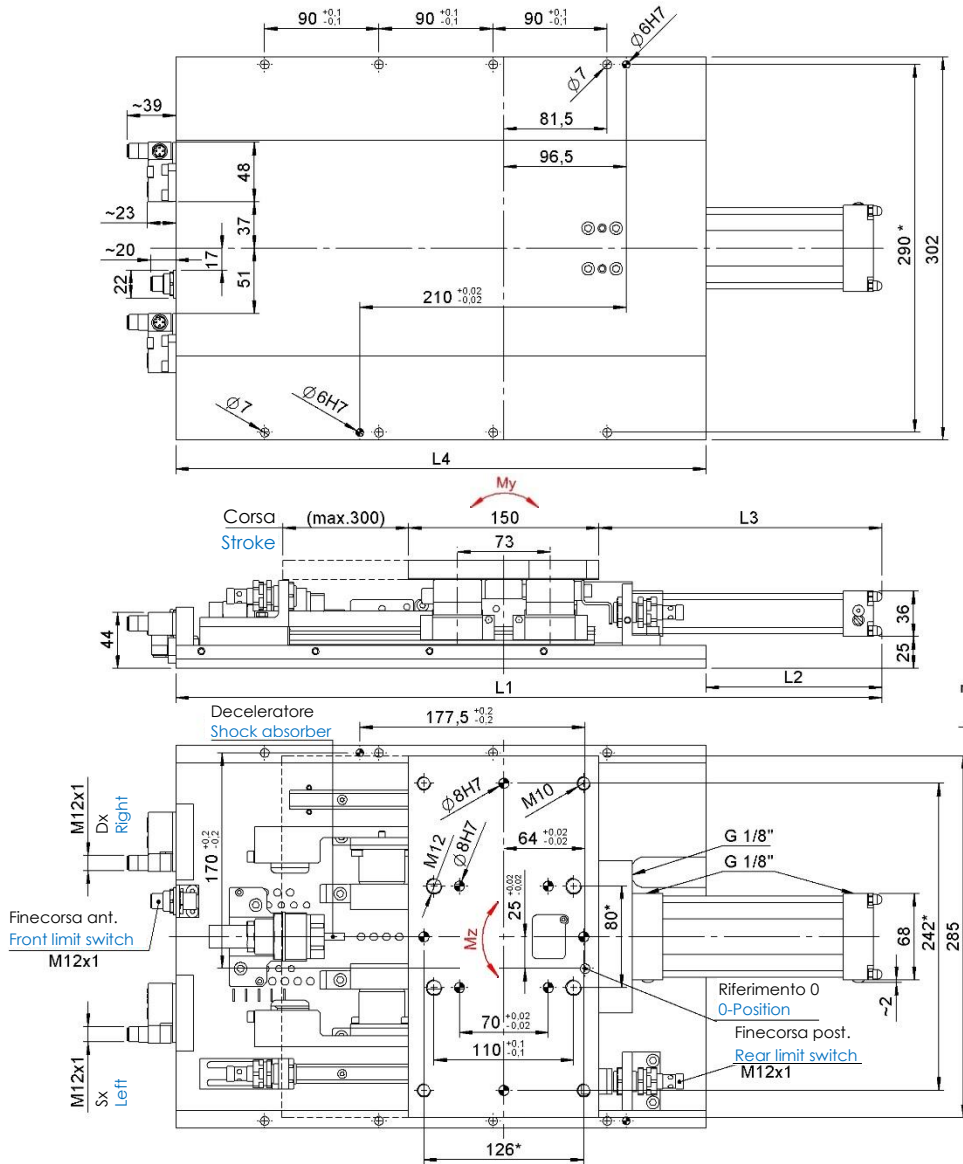
**H:** orizzontale (standard)  
horizontal (standard)

**V:** applicazione speciale  
con posizione di montaggio  
verticale (capovolta o sul lato)  
SOLO dopo approvazione da  
parte della VEP Automation.  
special application with vertical  
mounting position (hanging or  
upright) ONLY after the approval  
of VEP AUTOMATION



## SLD40.1-... / ...-Z-D-X-H

Slitta lineare, D.40, 4 carrelli, Blocco SBI, Corsa vario  
Linear unit, D.40, 4 Runner blocks, SBI lock, Various stroke



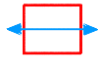
\*\*\* SBI: Sistema di bloccaggio ad innesto  
\*\*\* SBI: Graft lock system

Tolleranze su corsa:  
- fino a corsa 300mm:  $\pm 0,03$ mm  
Stroke tolerances:  
- up to stroke 300mm:  $\pm 0,03$ mm

# Tolleranze: fori spina:  $\pm 0,02$  | fori filettati:  $\pm 0,1$   
#Tolerances: dowel holes:  $\pm 0,02$  | screw holes:  $\pm 0,1$

Modello Type	Tipo Type	Alesaggio Cylinder bore	Corsa regolabile Adjustable stroke	Peso Weight	L1	L2	L3	L4	Consumo aria (5 bar) Air consumption (5 bar)	Pressione d'esercizio Working pressure
		[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	[l]	[bar]
SLD40.1-50	50	40	1 ÷ 50	9,5	507	89	174	418	0,8	5 – 8
SLD40.1-100	100		51 ÷ 100	10	557	139	224	418	1,4	
SLD40.1-150	150		101 ÷ 150	11,5	707	189	274	518	2,1	
SLD40.1-200	200		151 ÷ 200	12	757	239	324	518	2,9	
SLD40.1-300	300		201 ÷ 300	14	957	339	424	618	4,3	

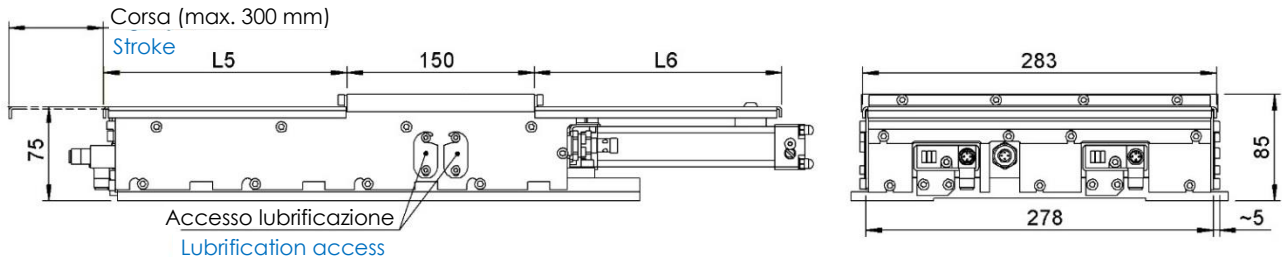
** Carico max. applicabile (5 bar) ** Max. applicable load (5 bar)		Forza ritengo SBI*** Holding force SBI***	Momento dinamico max. Dynamic torque max			Momento statico max. Static moment max.			Spinta max. Max. Thrust force (5 bar)
[kg]		[N]	[Nm]			[Nm]			[N]
Installazione orizzontale Horizontal installation	Installazione verticale Vertical installation	16700	Mx	My	Mz	Mx	My	Mz	590
40	15		70	40	60	110	60	90	



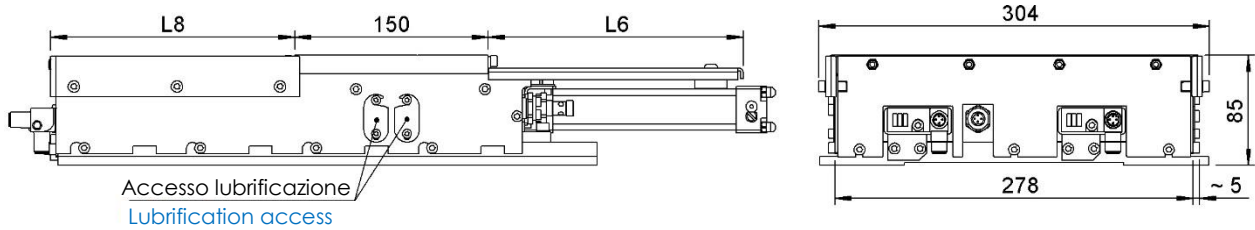
## Riparo.

### Cover.

#### S1



#### S3



La meccanica interna della slitta dev'essere protetta dagli sfridi di saldatura. (utilizzare ripari sopra indicati) Per applicazioni in aree con alta contaminazione è necessario applicare ulteriori misure di schermatura esterna alla slitta.

The internal mechanics must be protected against contamination. (use covers indicated above) For operations in very extreme contamination areas, additional separate external shielding measures shall be applied.

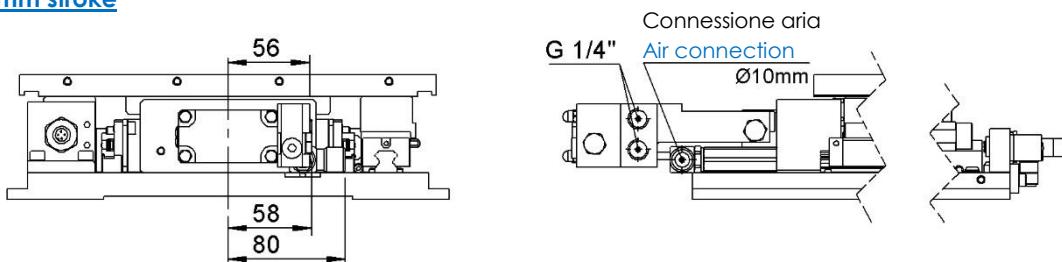
Modello Type	Tipo Type	Corsa regolabile Adjustable stroke	L5	L6	L7	L8
		[mm]	[mm]	[mm]	[mm]	[mm]
SLD40.1-50	50	1 ÷ 50	196	148	---	189.5
SLD40.1-100	100	51 ÷ 100	196	198	43	189.5
SLD40.1-150	150	101 ÷ 150	296	248	93	289.5
SLD40.1-200	200	151 ÷ 200	296	298	143	289.5
SLD40.1-300	300	201 ÷ 300	396	398	243	389.5

## Distributore aria.

### Air connection adapter.

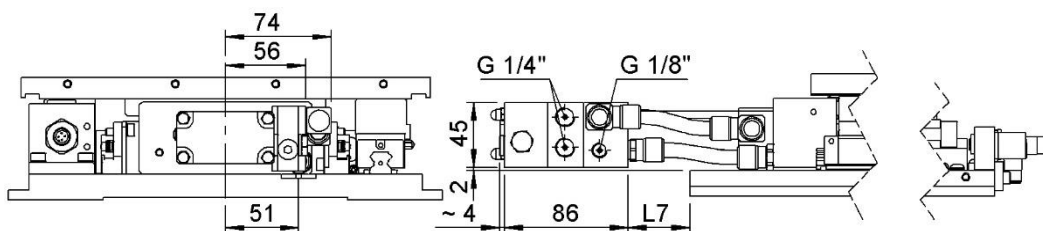
fino a corsa 50 mm

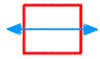
up to 50 mm stroke



da corsa 51 mm fino a corsa 300 mm

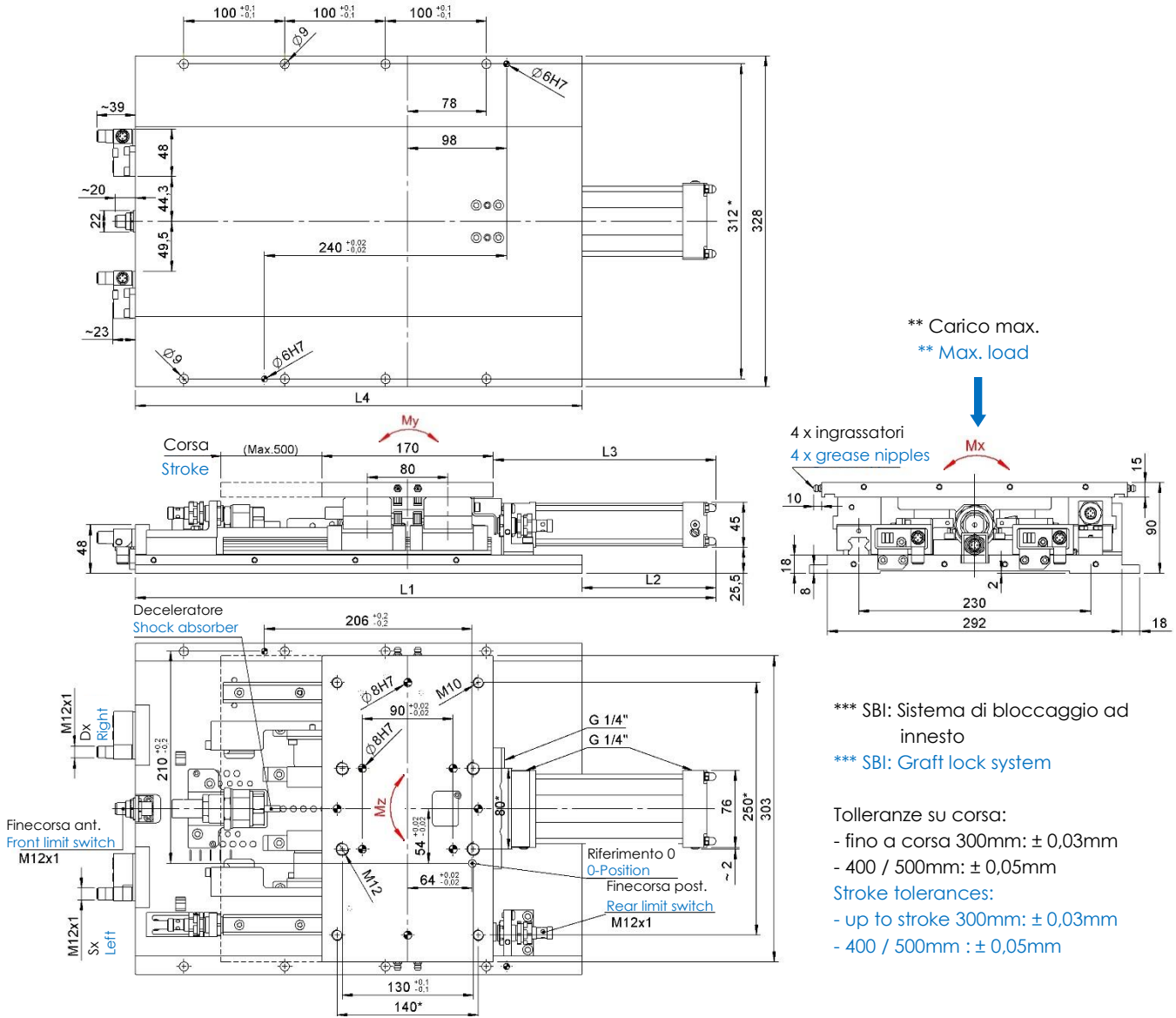
from stroke 51 mm to stroke 300 mm





## SLD50.1-... / ...-Z-D-X-H

Slitta lineare, D.50, 4 carrelli, Blocco SBI, Corsa vario  
 Linear unit, D.50, 4 Runner blocks, SBI lock, Various stroke



\*\* Carico max.  
 \*\* Max. load

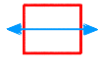
\*\*\* SBI: Sistema di bloccaggio ad innesto  
 \*\*\* SBI: Graff lock system

Tolleranze su corsa:  
 - fino a corsa 300mm: ± 0,03mm  
 - 400 / 500mm: ± 0,05mm  
 Stroke tolerances:  
 - up to stroke 300mm: ± 0,03mm  
 - 400 / 500mm: ± 0,05mm

# Tolleranze: fori spina: ±0.02 | fori filettati: ±0.1  
 #Tolerances: dowel holes: ±0.02 | screw holes: ±0.1

Modello Type	Tipo Type	Alesaggio Cylinder bore	Corsa regolabile Adjustable stroke	Peso Weight	L1	L2	L3	L4	Consumo aria (5 bar) Air consumption (5 bar)	Pressione d'esercizio Working pressure
		[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	[l]	[bar]
SLD50.1-50	50	50	1 ÷ 50	32	526	83	171	443	1,1	5 - 8
SLD50.1-100	100		51 ÷ 100	35	576	133	221	443	2,1	
SLD50.1-150	150		101 ÷ 150	40	726	183	271	543	3,3	
SLD50.1-200	200		151 ÷ 200	43	776	233	321	543	4,4	
SLD50.1-300	300		201 ÷ 300	51	976	333	421	643	6,5	
SLD50.1-400	400		301 ÷ 400	59	1176	433	521	743	8,7	
SLD50.1-500	500		401 ÷ 500	67	1376	533	621	843	10,9	

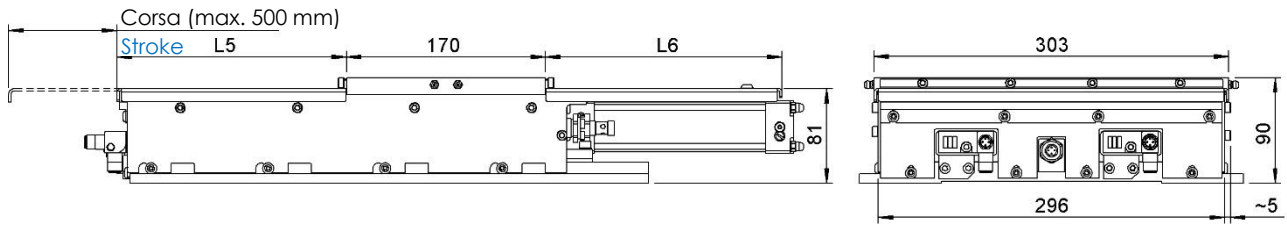
** Carico max. applicabile (5 bar) ** Max. applicable load (5 bar)		Forza ritegno SBI*** Holding force SBI***	Momento dinamico max. Dynamic torque max.			Momento statico max. Static moment max.			Spinta max. Max. Thrust force (5 bar)
[kg]		[N]	[Nm]			[Nm]			[N]
Installazione orizzontale Horizontal installation	Installazione verticale Vertical installation	16700	Mx	My	Mz	Mx	My	Mz	900
75	30		240	70	90	400	120	160	



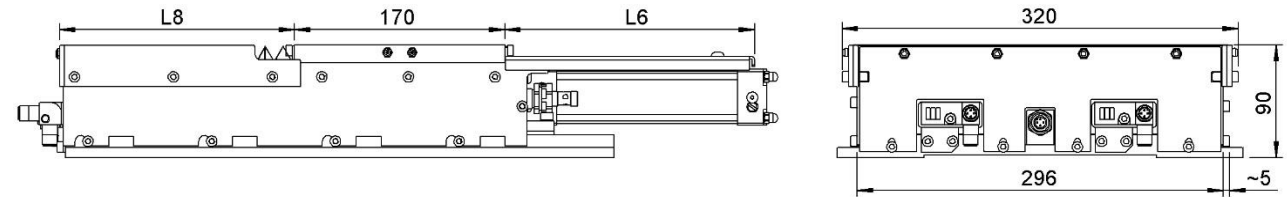
## Riparo.

### Cover.

#### S1



#### S3



La meccanica interna della slitta dev'essere protetta dagli sfridi di saldatura. (utilizzare ripari sopra indicati) Per applicazioni in aree con alta contaminazione è necessario applicare ulteriori misure di schermatura esterna alla slitta.

The internal mechanics must be protected against contamination. (use covers indicated above) For operations in very extreme contamination areas, additional separate external shielding measures shall be applied.

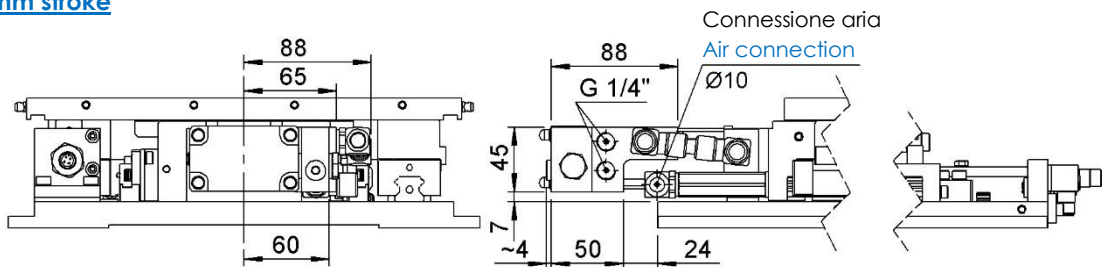
Modello Type	Tipo Type	Corsa regolabile Adjustable stroke	L5	L6	L7	L8
		[mm]	[mm]	[mm]	[mm]	[mm]
SLD50.1-50	50	1 ÷ 50	196	152	---	190
SLD50.1-100	100	51÷100	196	202	36	190
SLD50.1-150	150	101÷150	296	252	86	290
SLD50.1-200	200	151÷200	296	302	136	290
SLD50.1-300	300	201÷300	396	402	236	390
SLD50.1-400	400	301÷400	496	502	336	490
SLD50.1-500	500	401÷500	596	602	436	590

## Distributore aria.

### Air connection adapter.

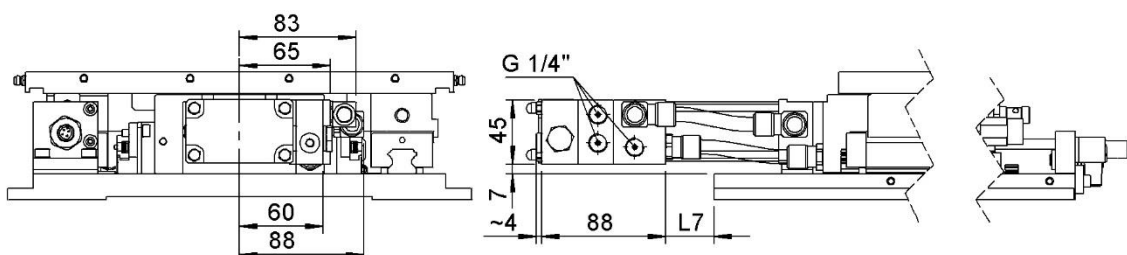
#### fino a corsa 50 mm

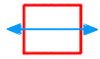
#### up to 50 mm stroke



#### da corsa 51 mm fino a corsa 500 mm

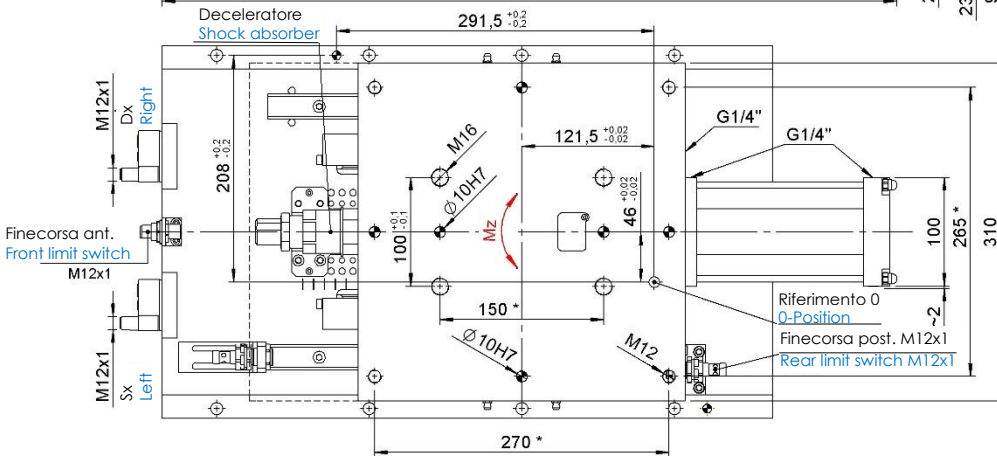
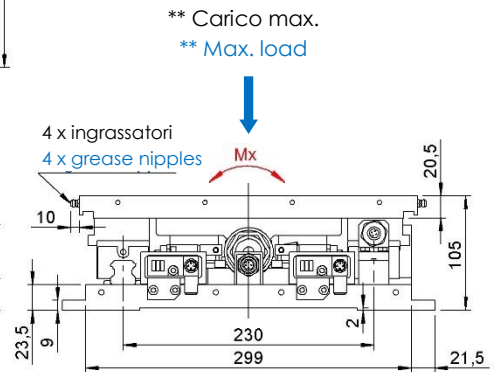
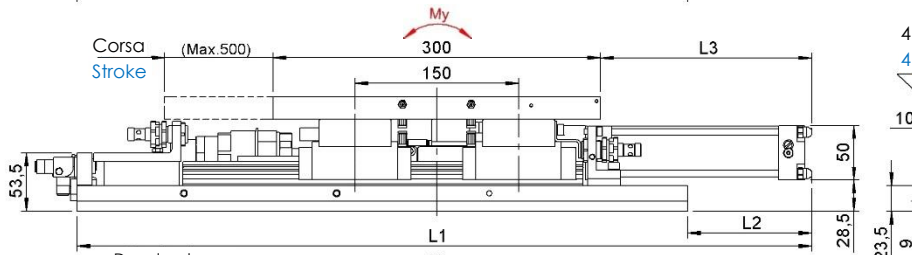
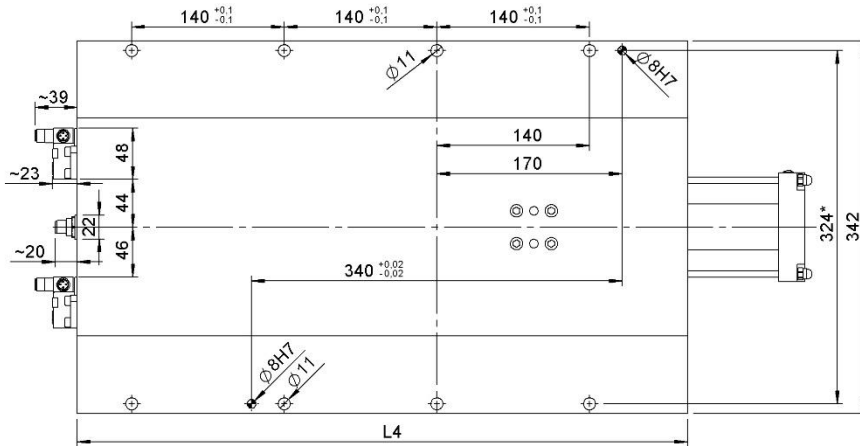
#### from stroke 51 mm to stroke 500 mm





## SLD63.1-... / ...-Z-D-X-H

Slitta lineare, D.63, 4 carrelli, Blocco SBI, Corsa vario  
Linear unit, D.63, 4 Runner blocks, SBI lock, Various stroke



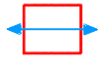
\*\*\* SBI: Sistema di bloccaggio ad innesto  
\*\*\* SBI: Graff lock system

Tolleranze su corsa:  
- fino a corsa 300mm: ± 0,03mm  
- 400 / 500mm: ± 0,05mm  
Stroke tolerances:  
- up to stroke 300mm: ± 0,03mm  
- 400 / 500mm : ± 0,05mm

# Tolleranze: fori spina: ±0.02 | fori filettati: ±0.1  
#Tolerances: dowel holes: ±0.02 | screw holes: ±0.1

Modello Type	Tipo Type	Alesaggio Cylinder bore	Corsa regolabile Adjustable stroke	Peso Weight	L1	L2	L3	L4	Consumo aria (5 bar) Air consumption (5 bar)	Pressione d'esercizio Working pressure
		[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	[l]	[bar]
SLD63.1-50	50	63	1 ÷ 50	49	625	65	145	560	1,9	5 – 8
SLD63.1-100	100		51 ÷ 100	54	675	115	195	560	3,6	
SLD63.1-150	150		101 ÷ 150	57	825	165	245	660	5,4	
SLD63.1-200	200		151 ÷ 200	60	875	215	295	660	7,2	
SLD63.1-300	300		201 ÷ 300	64	1075	315	395	760	10,7	
SLD63.1-400	400		301 ÷ 400	72	1275	415	495	860	14,3	
SLD63.1-500	500		401 ÷ 500	80	1475	515	595	960	17,9	

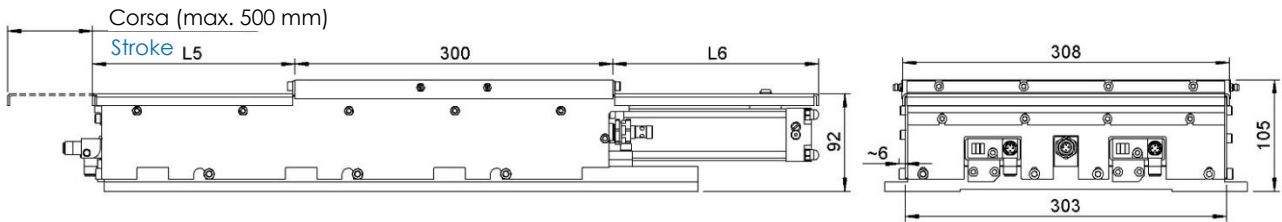
** Carico max. applicabile (5 bar) ** Max. applicable load (5 bar)		Forza ritengo SBI*** Holding force SBI***	Momento dinamico max. Dynamic torque max	Momento statico max. Static moment max.	Spinta max. Max. Thrust force (5 bar)
[kg]		[N]	[Nm]	[Nm]	[N]
Installazione orizzontale Horizontal installation	Installazione verticale Vertical installation	16700	Mx	Mx	1480
150	65		My	My	
			Mz	Mz	
			560	280	330
			220	840	430
				330	



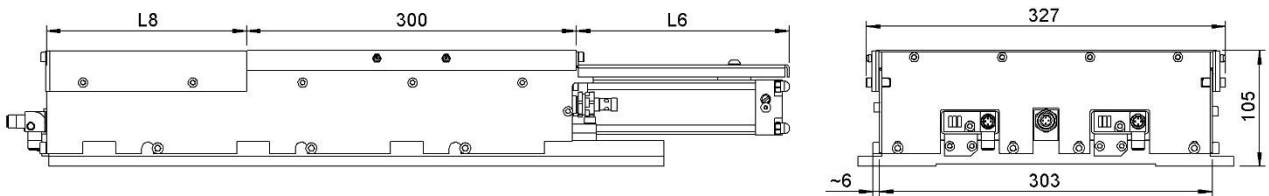
## Riparo.

### Cover.

#### S1



#### S3



La meccanica interna della slitta dev'essere protetta dagli sfridi di saldatura. (utilizzare ripari sopra indicati) Per applicazioni in aree con alta contaminazione è necessario applicare ulteriori misure di schermatura esterna alla slitta.

The internal mechanics must be protected against contamination. (use covers indicated above) For operations in very extreme contamination areas, additional separate external shielding measures shall be applied.

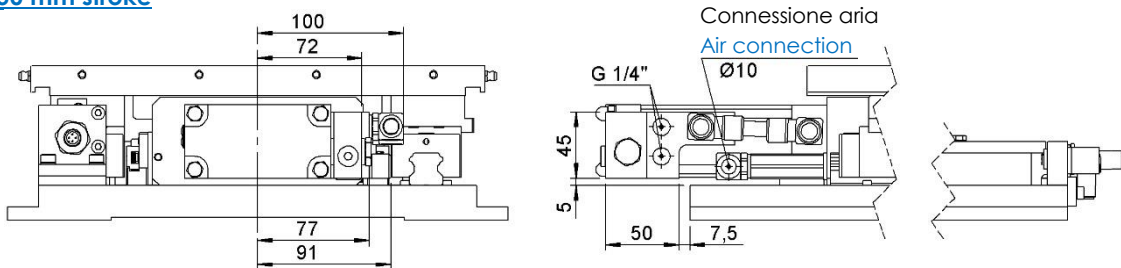
Modello Type	Tipo Type	Corsa regolabile Adjustable stroke	L5	L6	L7	L8
		[mm]	[mm]	[mm]	[mm]	[mm]
SLD63.1-50	50	1 ÷ 50	191	144	---	183
SLD63.1-100	100	51÷100	191	194	20	183
SLD63.1-150	150	101÷150	291	244	70	283
SLD63.1-200	200	151÷200	291	294	120	283
SLD63.1-300	300	201÷300	391	394	220	383
SLD63.1-400	400	301÷400	491	494	320	483
SLD63.1-500	500	401÷500	591	594	420	583

## Distributore aria.

### Air connection adapter.

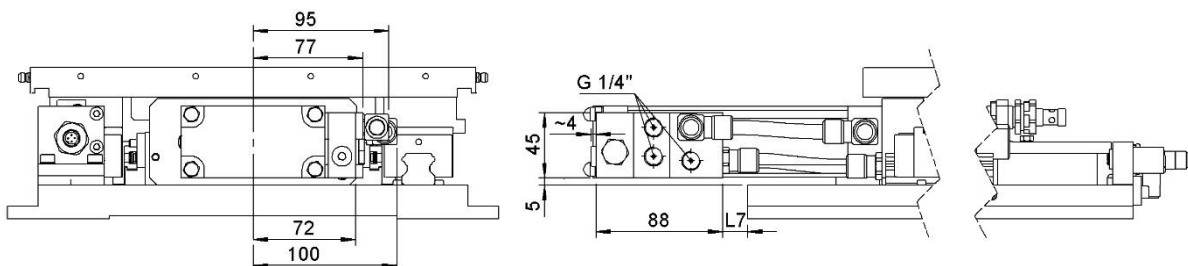
#### fino a corsa 50 mm

#### up to 50 mm stroke



#### da corsa 51 mm fino a corsa 500 mm

#### from stroke 51 mm to stroke 500 mm



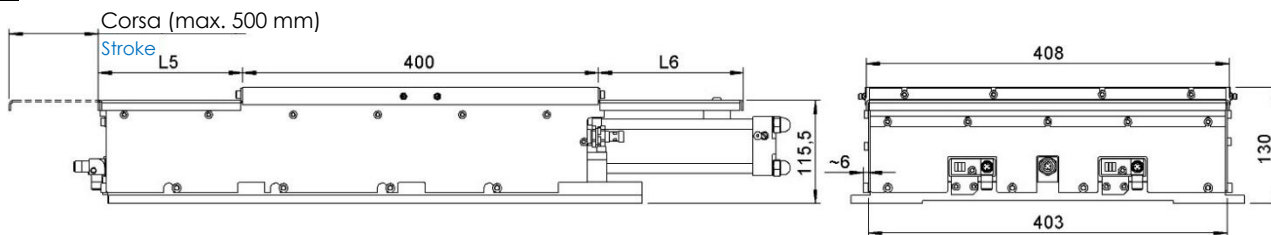




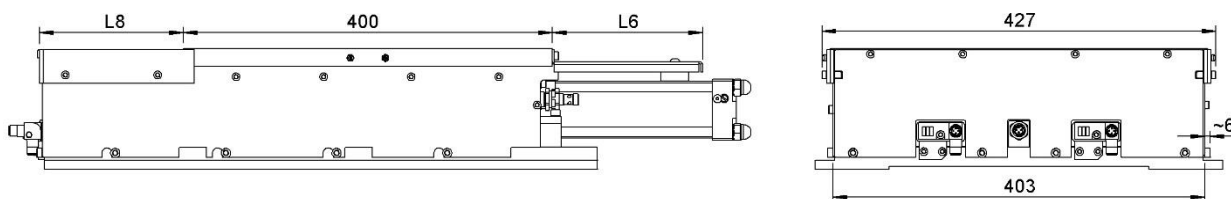
## Riparo.

### Cover.

#### S1



#### S3



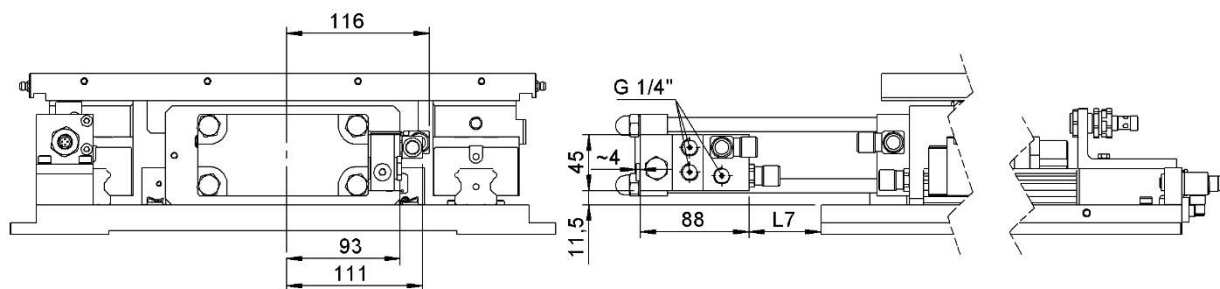
La meccanica interna della slitta dev'essere protetta dagli sfridi di saldatura. (utilizzare ripari sopra indicati) Per applicazioni in aree con alta contaminazione è necessario applicare ulteriori misure di schermatura esterna alla slitta.

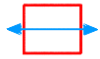
The internal mechanics must be protected against contamination. (use covers indicated above) For operations in very extreme contamination areas, additional separate external shielding measures shall be applied.

Modello Type	Tipo Type	Corsa regolabile Adjustable stroke	L5	L6	L7	L8
		[mm]	[mm]	[mm]	[mm]	[mm]
SLD80.1-50	50	1 ÷ 50	162	113	11	153
SLD80.1-100	100	51÷100	162	163	61	153
SLD80.1-150	150	101÷150	262	213	111	253
SLD80.1-200	200	151÷200	262	263	161	253
SLD80.1-300	300	201÷300	362	363	261	353
SLD80.1-400	400	301÷400	462	463	361	453
SLD80.1-500	500	401÷500	562	563	461	553

## Distributore aria.

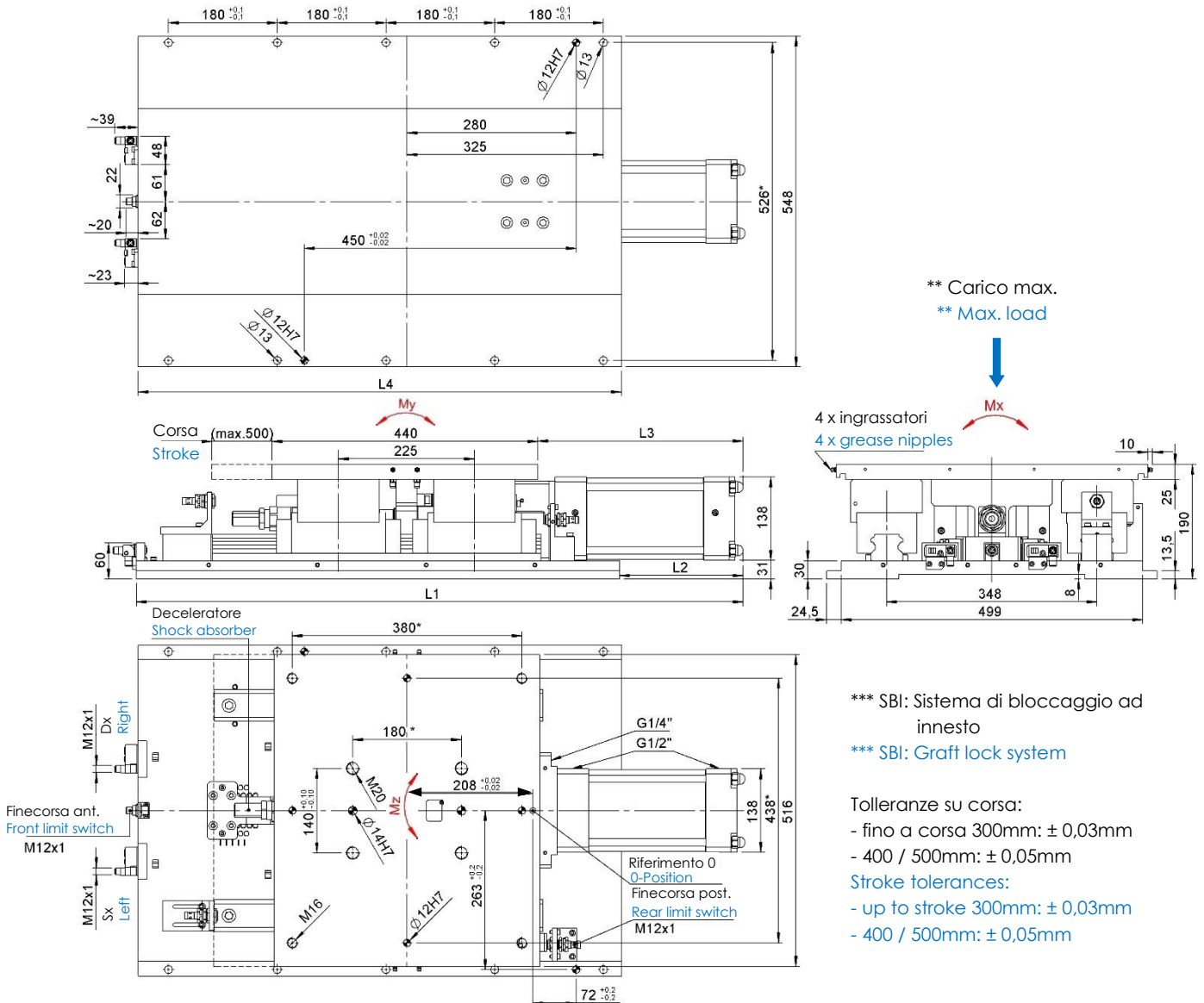
### Air connection adapter.





## SLD125.1-... / ...-Z-D-X-H

Slitta lineare, D.125, 4 carrelli, Blocco SBI, Corsa vario  
Linear unit, D.125, 4 Runner blocks, SBI lock, Various stroke



\*\* Carico max.  
\*\* Max. load

4 x ingrassatori  
4 x grease nipples

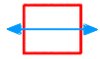
\*\*\* SBI: Sistema di bloccaggio ad innesto  
\*\*\* SBI: Graft lock system

Tolleranze su corsa:  
- fino a corsa 300mm: ± 0,03mm  
- 400 / 500mm: ± 0,05mm  
Stroke tolerances:  
- up to stroke 300mm: ± 0,03mm  
- 400 / 500mm: ± 0,05mm

# Tolleranze: fori spina: ±0.02 | fori filettati: ±0.1  
#Tolerances: dowel holes: ±0.02 | screw holes: ±0.1

Modello Type	Tipo Type	Alesaggio Cylinder bore	Corsa regolabile Adjustable stroke	Peso Weight	L1	L2	L3	L4	Consumo aria (5 bar) Air consumption (5 bar)	Pressione d'esercizio Working pressure
		[mm]	[mm]	[kg]	[mm]	[mm]	[mm]	[mm]	[l]	[bar]
SLD125.1-50	50	125	1 ÷ 50	222	955	155	290	800	7,8	5 – 8
SLD125.1-100	100		51 ÷ 100	225	1005	205	340	800	14,7	
SLD125.1-150	150		101 ÷ 150	230	1155	255	390	900	21,8	
SLD125.1-200	200		151 ÷ 200	245	1205	305	440	900	28,7	
SLD125.1-300	300		201 ÷ 300	265	1405	405	540	1000	42,7	
SLD125.1-400	400		301 ÷ 400	285	1605	505	640	1100	56,6	
SLD125.1-500	500		401 ÷ 500	305	1805	605	740	1200	70,6	

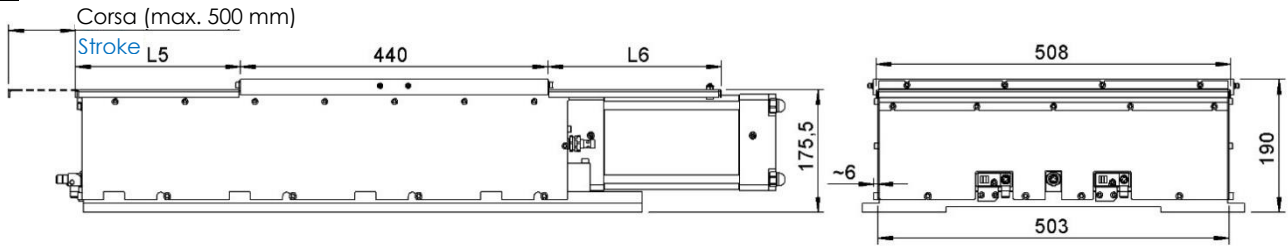
** Carico max. applicabile (5 bar) ** Max. applicable load (5 bar)		Forza ritengo SBI*** Holding force SBI***	Momento dinamico max. Dynamic torque max.			Momento statico max. Static moment max.			Spinta max. Max. Thrust force (5 bar)
[kg]		[N]	[Nm]			[Nm]			[N]
Installazione orizzontale Horizontal installation	Installazione verticale Vertical installation	16700	Mx	My	Mz	Mx	My	Mz	5820
600	180		3500	2280	1300	4900	3190	2100	



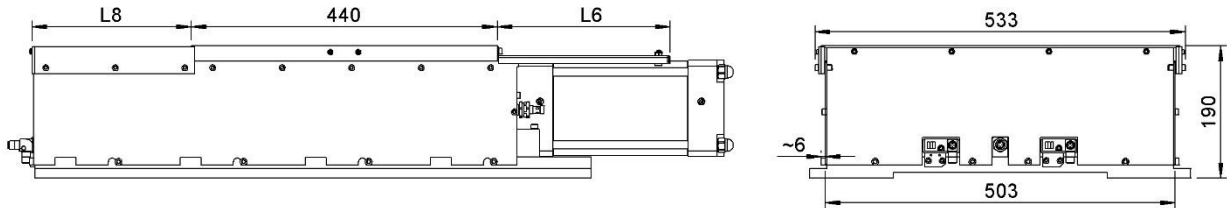
## Riparo.

### Cover.

#### S1



#### S3



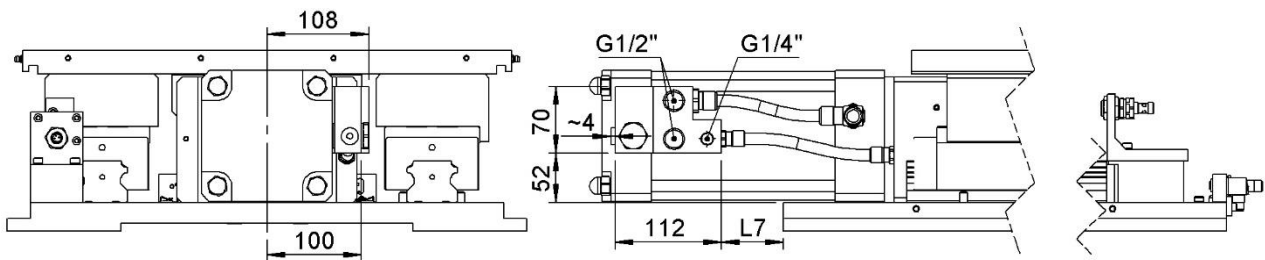
La meccanica interna della slitta dev'essere protetta dagli sfridi di saldatura. (utilizzare ripari sopra indicati) Per applicazioni in aree con alta contaminazione è necessario applicare ulteriori misure di schermatura esterna alla slitta.

The internal mechanics must be protected against contamination. (use covers indicated above) For operations in very extreme contamination areas, additional separate external shielding measures shall be applied.

Modello Type	Tipo Type	Corsa regolabile Adjustable stroke	L5	L6	L7	L8
		[mm]	[mm]	[mm]	[mm]	[mm]
SLD125.1-50	50	1 ÷ 50	236	199	16	230
SLD125.1-100	100	51÷100	236	249	66	230
SLD125.1-150	150	101÷150	336	299	116	330
SLD125.1-200	200	151÷200	336	349	166	330
SLD125.1-300	300	201÷300	436	449	266	430
SLD125.1-400	400	301÷400	536	549	366	530
SLD125.1-500	500	401÷500	636	649	466	630

## Distributore aria.

### Air connection adapter.





## Schema per sensore induttivo.

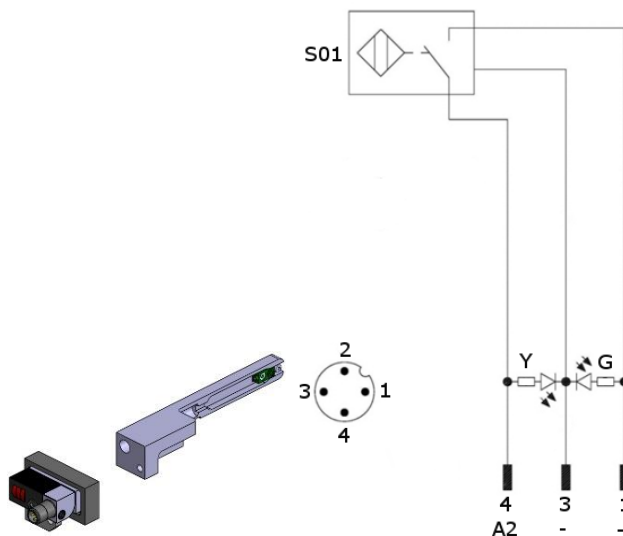
### Diagram for inductive sensor.

Caratteristiche tecniche:

- Tipo di uscita: PNP
- Tensione d'alimentazione: 10-30 VDC;
- Corrente max. di commutazione: 200 mA;
- Consumo di corrente: < 25 mA;
- Calo di tensione: < 2 V
- Campo di temperatura: -25° / 70° C.

Technical data:

- Output type: PNP
- Feeding voltage: 10-30 VDC;
- Max. commutating current: 200 mA;
- Power supply: < 25 mA;
- Voltage drop: < 2 V;
- Temperature range: -25° / 70° C.



S01 = segnale d'apertura  
S01 = opening signal

Y = LED giallo / yellow LED  
G = LED verde / green LED

1 = filo marrone / brown wire  
3 = filo blu / blue wire  
4 = filo bianco / white wire

## Schema per Finecorsa

### Diagram for Limit switch

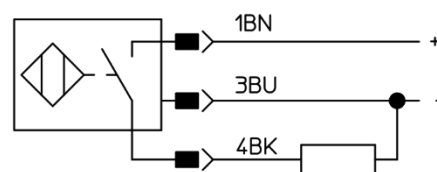
Caratteristiche tecniche:

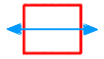
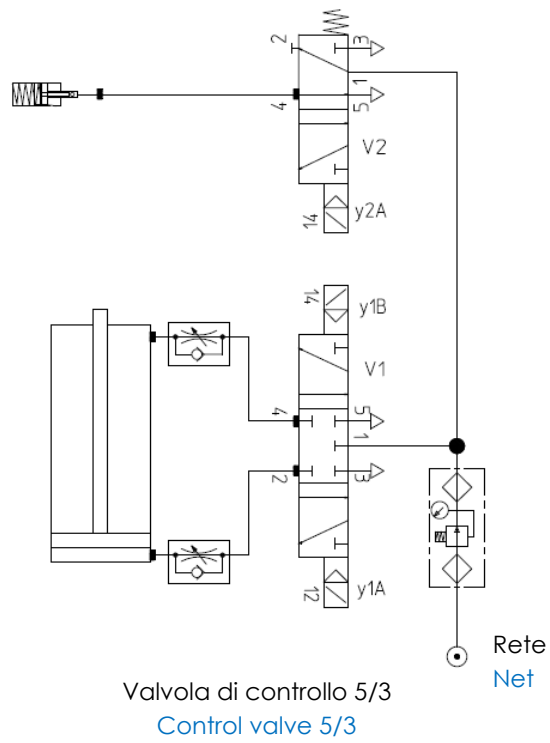
- Tipo di uscita: PNP
- Tensione d'alimentazione: 10-30 VDC;
- Corrente max. di commutazione: 200 mA;
- Campo di temperatura: -25° / 70° C.



Technical data:

- Output type: PNP
- Feeding voltage: 10-30 VDC;
- Max. commutating current: 200 mA;
- Temperature range: -25° / 70° C.



**Schema pneumatico.****Pneumatic plan.**


**Ricambi.**  
**Spare parts.**

# Kit	Immagine Picture	Descrizione Description	Articolo Article
Kit guarnizioni Seals kit		SLD40.1	SCR-SLD40.1
		SLD50.1	SCR-SLD50.1
		SLD63.1	SCR-SLD63.1
		SLD80.1	SCR-SLD80.1
		SLD125.1	SCR-SLD125.1
Cilindro pneumatico Pneumatic cylinder		SLD40.1	07701/corsa/C 07701/stroke/C
		SLD50.1	07688/corsa/C 07688/stroke/C
		SLD63.1	07657/corsa/C 07657/stroke/C
		SLD80.1	07669/corsa/C 07669/stroke/C
		SLD125.1	07736/corsa/C 07736/stroke/C
Cilindro per SBI SBI Cylinder		SLD40.1/50.1/63.1/80.1/125.1	06825/C
Sensore induttivo per SBI Inductive sensor for SBI		SLD40.1	08072/40/R/C
		SLD50.1	08072/50/R/C
		SLD63.1	08072/R/C
		SLD80.1	08072/80/R/C
		SLD125.1	08072/125/R/C
		SLD40.1	08072/40/L/C
		SLD50.1	08072/50/L/C
		SLD63.1	08072/L/C
		SLD80.1	08072/80/L/C
		SLD125.1	08072/125/L/C
Spessori regolazione sensore SBI Shims for regulation SBI sensor		SLD40.1/50.1/63.1/80.1/125.1	08082/0,3/C