SMW AUTOBLOK

SLX *e-motion* 520

MECHATRONIC LONG-STROKE VISE

Universal
Extra long jaw stroke
100% electric
No hydraulics or pneumatics necessary



www.smw-autoblok.com
www.smw-electronics.com

SMW electronics

SLX *e-motion* 520

Mechatronic long-stroke vise

- Monitoring of the jaw position / clamping force
- Mechanical maintenance of clamping force in case of power failure



Application / customer benefits

- Mechatronic clamping drive with maintenance of clamping force due to self-locking, spring pack and engine brake
- High total clamping force* up to 40 kN for high cutting performance
- Pre-positioning and clamping force presetting
- Extra long jaw stroke, 99 mm per jaw
- Permanent monitoring of the clamping force and jaw position
- Side connections for power and sensors – bottom connections optional
- e-sensing: inductive component detection / distance measurement (optional)

Technical features

- Total clamping force* max. 40 kN, Close / Open
- Jaw stroke: 99 mm – repeatability ± 0.02 mm
- Self centering clamping (only OD clamping)
- Jaw width: 160 mm
- Power supply: 48 V / 10 A
- Communication interface: Profinet / EtherNet/IP – 2 STO Signals (optional on request)
- All functions can be controlled and monitored via PROFINET
- Protection class: IP67

Standart equiment

SLX *e-motion 520*

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Self centering function via mechanical synchronisation

Monitoring of the clamping force and jaw position

Sealed jaw guideway

Extra long **jaw stroke**



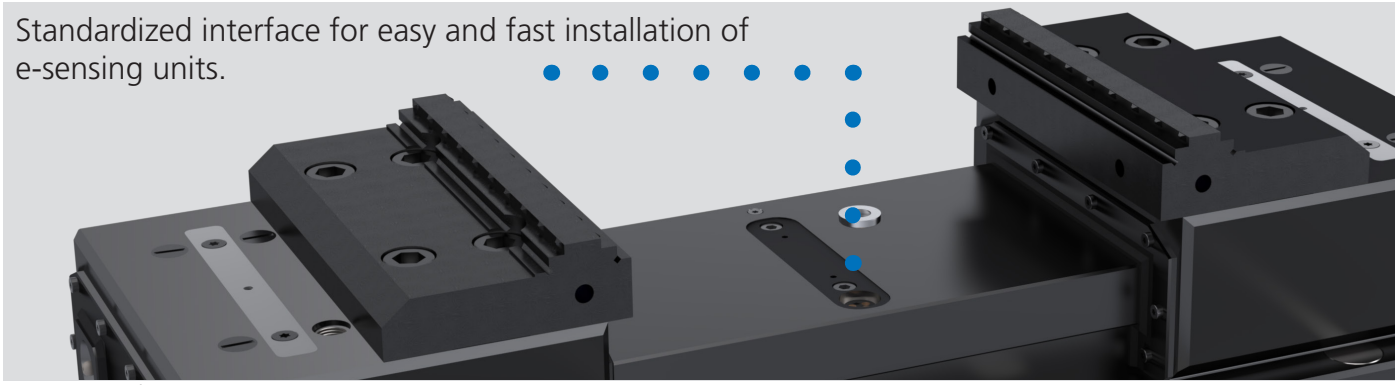
Mechanical maintenance of clamping force in case of power failure

M23 hybrid plug
Power 48 V
Profinet / Ethernet/IP

LED for status

Plug & Play

Standardized interface for easy and fast installation of e-sensing units.

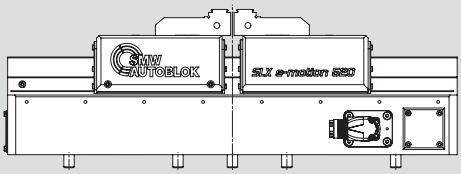


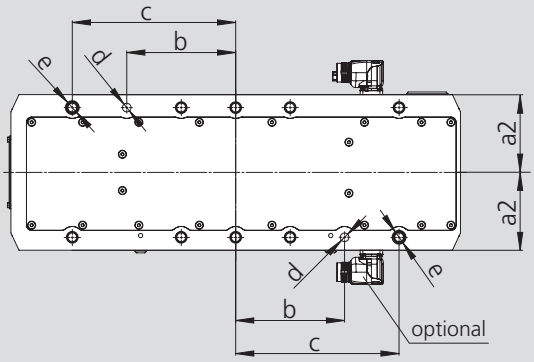
* Arithmetic total of all moving clamping

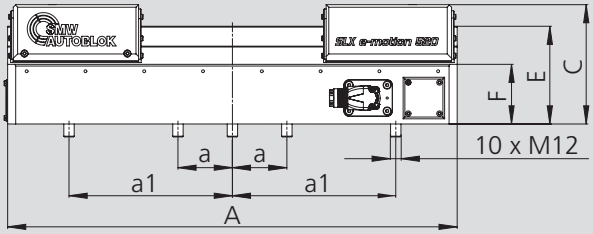
Mechatronic long-stroke vise

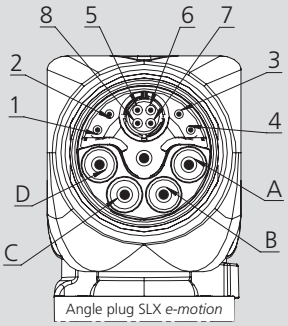
Dimension and technical data

SLX *e-motion* 520

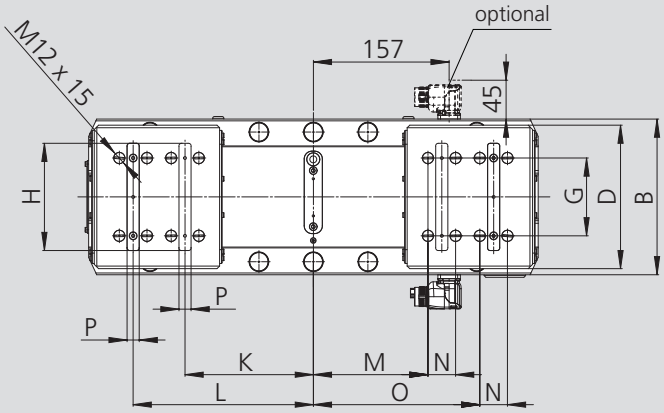








Angle plug SLX *e-motion*



PIN assignment M23 hybrid plug

PIN	Core Color	Function	Description
A	black 1	24 V	Logic Power
B	black 2	GND	Logic GND
C	black 3	48 V	Last Power
D	black 4	GND	Last GND
PE	green / yellow	Ground	Functional Earth (FE)
1	violett	STO A	Safe Torque Off
2	brown	STO B	Safe Torque Off
3	green	STO GND	Safe Torque Off GND
4	black 5	Nc	-
5	blue	Data RX-	ETHERNET
6	yellow	Data TX+	ETHERNET
7	white	Data RX+	ETHERNET
8	orange	Data TX-	ETHERNET

Subject to technical changes.
For more detailed information please ask our customer service.

Type			SLX *e-motion* 520 PROFINET	SLX *e-motion* 520 ETHERNET / IP
Id. No.			**462580**	**462584**
Length	**A**	mm	520	
	B	mm	180	
	C	mm	138	
Jaw width	**D**	mm	166	
	E	mm	113	
	F	mm	69	
	G	mm	90	
	H	mm	124	
Min. / Max.	**K**	mm	49.5 / 148.5	
Min. / Max.	**L**	mm	109.5 / 208.5	
Min. / Max.	**M**	mm	33.5 / 132.5	
	N	mm	32	
Min. / Max.	**O**	mm	93.5 / 192.5	
	P	mm	14 H^7 / 4 tief	
	a / a1 / a2	mm	63 / 189 / 75	
	b	mm	126 ± 0.02	
	c	mm	189 ± 0.02	
	d	mm	Ø10 H^7	
	e	mm	Ø16 H^7	
Max. clamping force		kN	40	
Stroke per jaw		mm	99	
Repeatability		mm	0.02	
Traversing speed per jaw		mm/s	1.2	
Voltage (actuators)			48 V ± 10 %	
Max. Current consumption (actuators)			10 A	
Voltage (sensors)			24 V ± 10 %	
Max. Current consumption (sensors)			0.5 A	
Communication interface			Profinet	EtherNET / IP
STO signals (optional)			2	
Max. workpiece weight		kg	400	
Weight		kg	69.8	

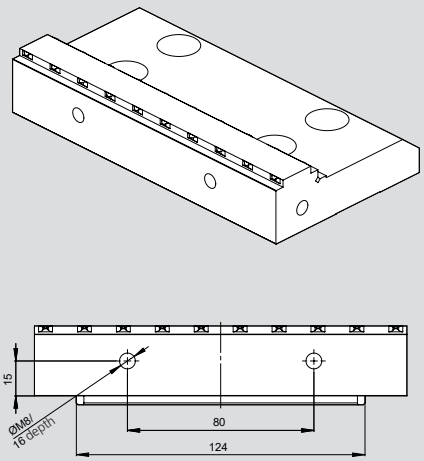
SLX *e-motion*

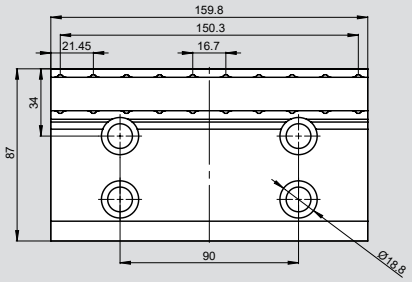
Mechatronic long-stroke vise

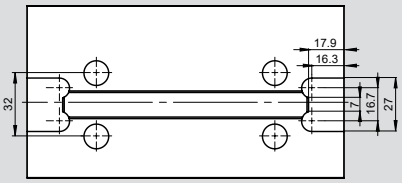
Accessories

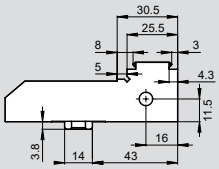
- **Top jaws**
- **Connector cable**

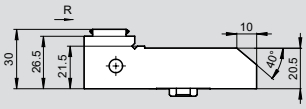
Hardened top jaw











*1 Set = 2 pieces

Type	Id. No.	Max. total clamping force	Min. jaw height	Weight
SLX *e-motion*	461640	40 kN	20.5 mm	2.5 kg

M23 HYBRID CONNECTOR CABLE (male connector one-sided, open cable end)



Type	M23 Connector cable **3M**	M23 Connector cable **7.5M**	M23 Connector cable **10M**
Id. No.	0E013566	0E013016	0E013567
Length	3 m	7.5 m	10 m
Cable structure	(5x 2.5 + 2x (2x 0.5) + (4 x 0.34) C) C		
Outer cable diameter	15.50 mm ± 0.5 mm		
Outer casing material	PUR		
Outer casing colour	orange RAL 2003		
Nominal voltage cable	1000 V (300 V signal)		
Smallest bending radius fixed	73 mm		
Smallest bending radius flexible	148 mm		
Ambient temperature	-40° C ... 80°C		
Special features	suitable for drag chains		

Warning! This cable is **not** suitable for repeated torsional loads!

Notes

Notes

Notes



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