

SL *e-motion*

MECHATRONIC TWIN VISE

UNIVERSAL

Long jaw stroke
Sealed and flexible

100% ELECTRIC

Compact design
High clamping force



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



IO-Link



Application/customer benefits

- Mechatronic clamping drive with maintenance of clamping force due to self-locking
- High total clamping force* max. 42 kN for high cutting performance
- Pre-positioning for fast loading / unloading
- Jaw stroke, 3 mm per jaw
- Permanent monitoring of the jaw position
- e-sensing: inductive component detection / distance measurement (optional)

Technical features

- Total clamping force* max. 45 kN, Close / Open
- Jaw stroke: 3 mm - repeatability ± 0.02 mm
- Self centering clamping
- Jaw width: 78 mm
- Power supply: 24 V / max. 4 A
- Communication interface: IO-Link
- Protection class: IP67

Standard equipment

SL e-motion without top jaws

All bolts and centering bushings included

SL e-motion

- **Self centering** function via mechanical synchronisation

- **e-sensing (optional)** inductive component detection

- **Monitoring** of the jaw position

- **Sealed** jaw guideway

- **Mechanical maintenance of clamping force** in case of power failure

- **LED-Status**

- **IO-Link interface** for plug & work integration



Plug & Play



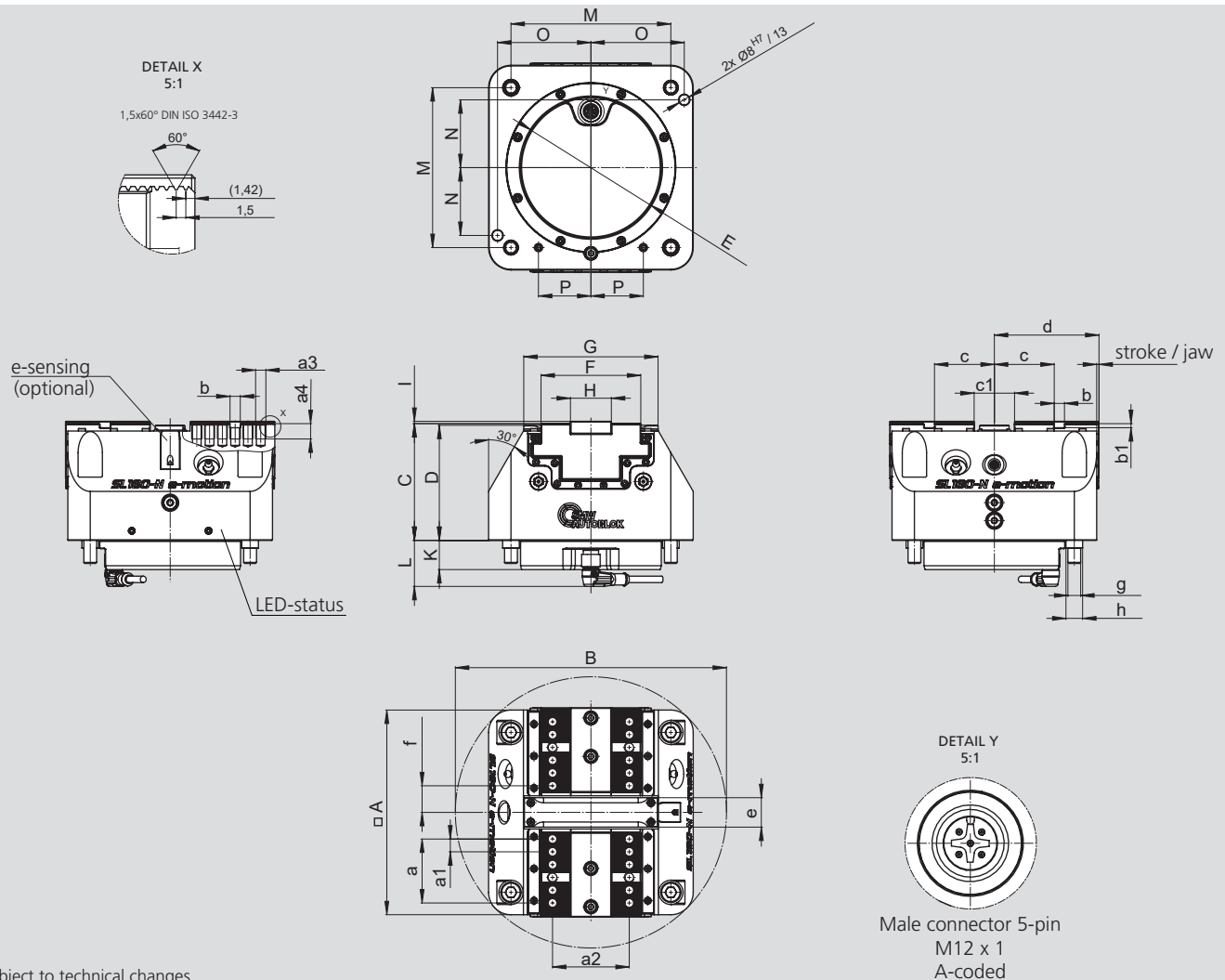
SL e-motion



Integrated control

* Arithmetic total of all moving clamping

Dimension and technical data



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

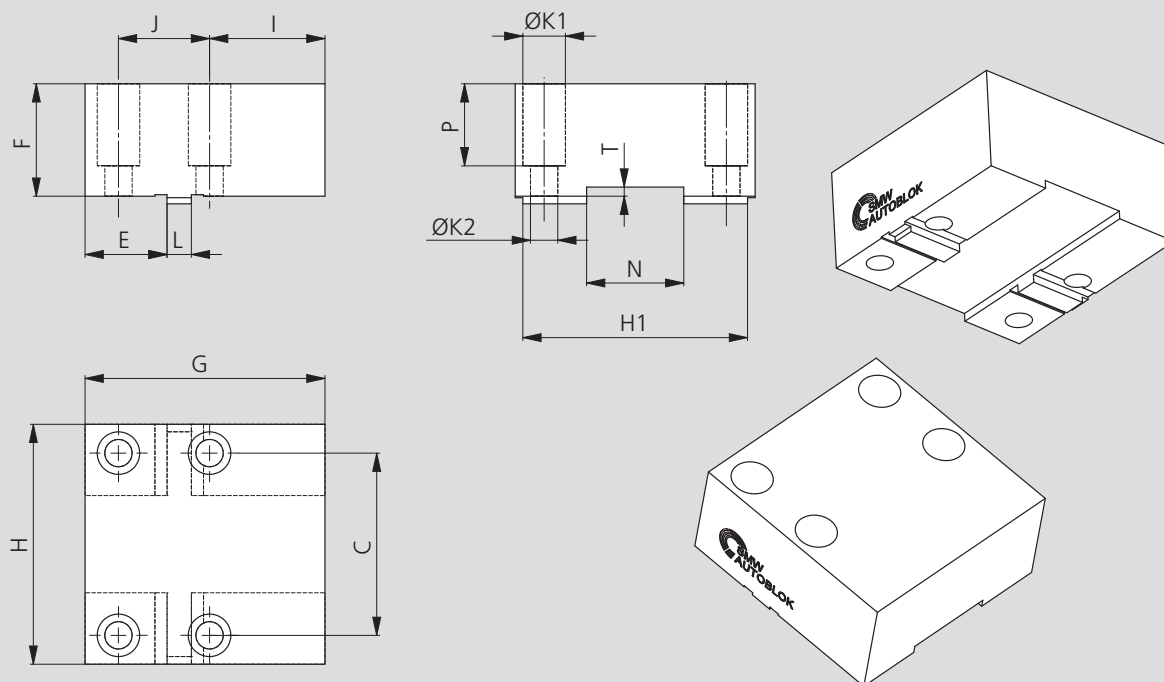
Type			SL e-motion
Id. No.			460720
Jaw width	A	mm	160
	B	mm	Ø 212
	C	mm	91.3
	D	mm	90
	E	mm	Ø 110
	F	mm	78
	G	mm	105
	H	mm	32 g ⁶
	K	mm	23
	L	mm	36
	M	mm	125
	N	mm	53
	O	mm	73
	P	mm	41
	a / a1 / a2 / a3 / a4	mm	50 / 10 / 60 / M8 / 12
	b / b1	mm	Ø8 H ⁷ / 3.2
Min. - Max.	c / c1	mm	45 - 48 / 29 - 35
Min. - Max.	d	mm	80 - 83
	e	mm	23
Min. - Max.	f	mm	19 - 22
	g	mm	M10
	h	mm	Ø13 js ⁷
Max. clamping force	kN		42
Stroke per jaw	mm		3
Repeatability	mm		0.02
Voltage (actuators)	V		24
Max. Current consumption (actuators)	A		4
Protection class	IP		67
Communication interface			IO-Link

SOFT TOP JAWS

for Twin Vises

- Soft blank top jaws
- Tongue & Groove

Material: C40 UNI7847



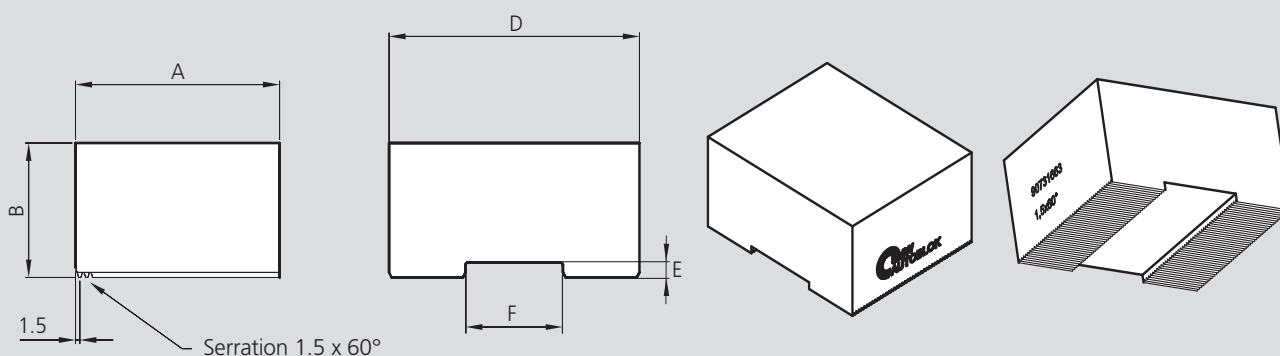
Subject to technical changes.

SOFT BLANK TOP JAWS, TONGUE & GROOVE

Type	Id. No.*	C	E	F	G	H	H1	I	J	K1	K2	L	N	P	T	Clamping range [mm]	Weight [kg]
SL e-motion 160	90721663	60	27	76.5	79	79	74	38	30	14	9	8h7	32h8	66.5	3	0 - 120	3.3

*The Id. No. refers to one single piece.

Material: C40 UNI7847



Subject to technical changes.

SOFT BLANK TOP JAWS, FINE SERRATION 1.5 mm x 60°

Type	Id. No.*	A	B	D	E	F	Weight [kg]
SL e-motion 160	90731663	66	39.5	79	3.5	32H8	1.5
SL e-motion 160	90741663	76	79	79	3.5	32H8	3.6

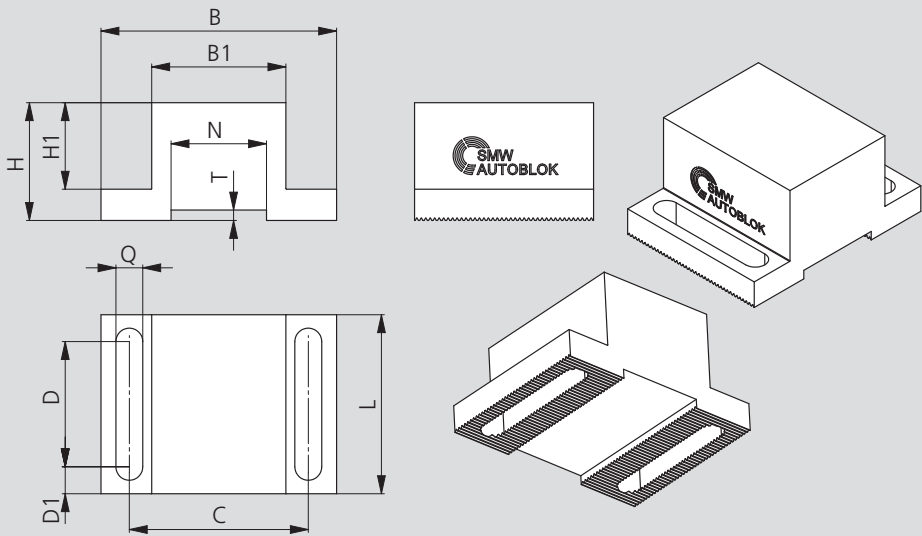
*The Id. No. refers to one single piece.

SOFT TOP JAWS

- Soft blank top jaws
- Fine serration 1.5mmx60°

for Twin Vises

Material: C40 UNI7847



Subject to technical changes.

SOFT BLANK TOP JAWS, FINE SERRATION 1.5 mm x 60°

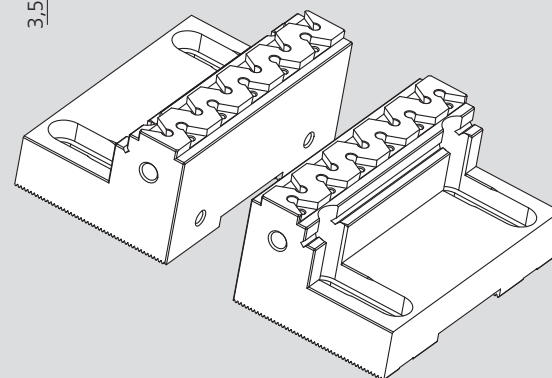
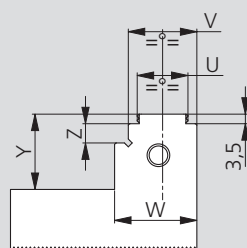
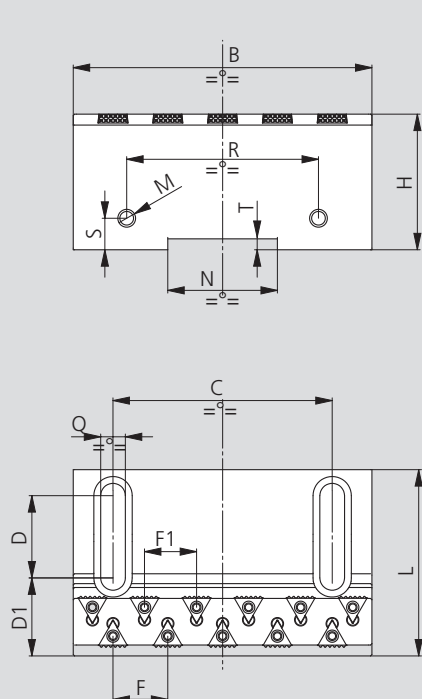
Type	Id. No.*	B	B1	C	D	D1	H	H1	L	N	Q	T	Weight [kg]
SI e-motion160	90751663	79	45	60	42	9	39.5	29	60	32H8	9	3.5	0.9

*The Id. No. refers to one single piece.

WIDE HARD TOP JAWS

TOP JAWS SinterGrip

- Hard top jaws with SinterGrip inserts
- Metric serrated 1.5 mm x 60°



Subject to technical changes.

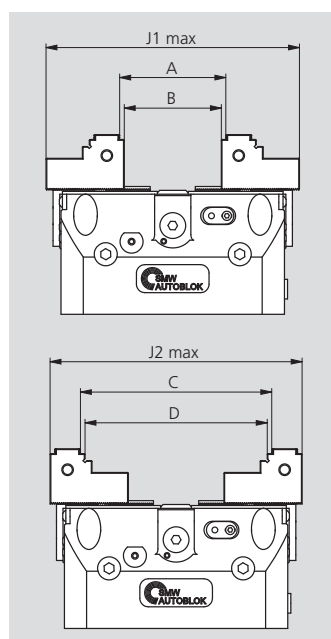
Note: The hard top jaws are provided with Id. No. 58450129 inserts mounted only on one side.

WIDE HARD TOP JAWS DIMENSIONS

Type	Id. No. set of 2 top jaws	B [mm]	C [mm]	D [mm]	D1 [mm]	D2 [mm]	F [mm]	F1 [mm]	H [mm]	L [mm]	M [mm]	N [mm]	Q [mm]	R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	Y [mm]	Z [mm]	No. inserts provided	*No. seat inserts	Weight [kg]
SL e-motion 160	58454125	104	60	30	14	/	15/28	15/28	34.5	57	M6	32H8	9	86	11.5	3,5	21.5	28	33	15.5	5	10	20	2

*The number of seats inserts indicated refers to set of 2 top jaws

WIDE HARD TOP JAWS CLAMPING RANGES for long and normal stroke Twin Vise models



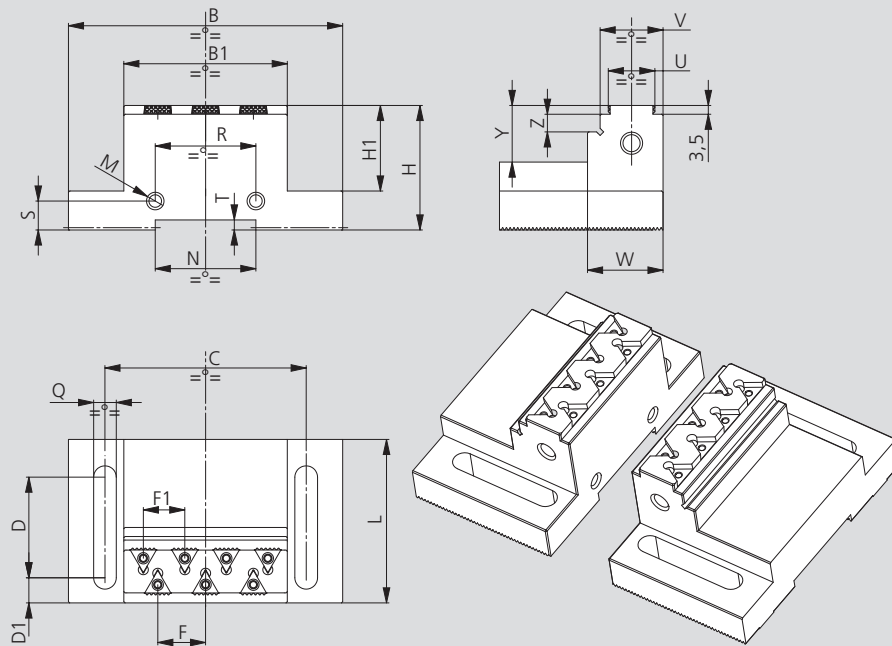
Id. No. set of 2 top jaws	Type	A [mm]	B [mm]	J1 max. [mm]	C [mm]	D [mm]	J2 max. [mm]	Gripping force max. [kN]**
58454125	160 TV-N	10 - 70	4 - 63	180	66 - 138	59 - 131	190	42

** the maximum gripping force values are indicative since they depend on the number of inserts used.

NARROW HARD TOP JAWS

TOP JAWS SinterGrip

- Hard top jaws with SinterGrip inserts
- Metric serrated 1.5 mm x 60°



Subject to technical changes.

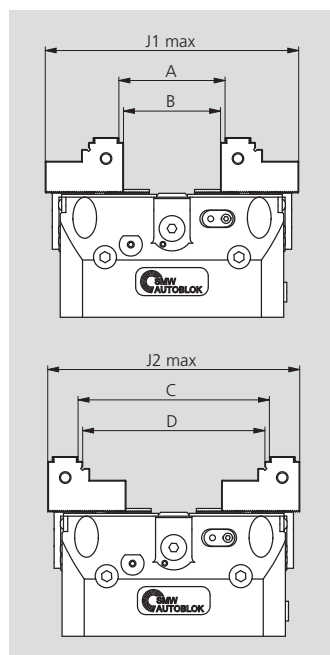
Note: the hard top jaws are provided with Id. No. 58450129 inserts mounted only on one side.

NARROW HARD TOP JAWS DIMENSIONS

Type	Id. No. set of 2 top jaws	B [mm]	B1 [mm]	C [mm]	D [mm]	D1 [mm]	F [mm]	F1 [mm]	H [mm]	H1 [mm]	L [mm]	M [mm]	N [mm]	Q [mm]	R [mm]	S [mm]	T [mm]	U [mm]	V [mm]	W [mm]	Y [mm]	Z [mm]	No. inserts provided	*No. seat inserts	Weight [Kg]
SL e-motion 160	58454225	79	45	60	38	9	20	15.5	39.5	26	56	M6	32H8	9	26	11.5	3.5	18.5	25	30	17.5	7	6	10	1.3 kg

*The number of seats inserts indicated refers to set of 2 top jaws

NARROW HARD TOP JAWS CLAMPING RANGES for long and normal stroke Twin Vise models



Id. No. set of 2 top jaws	Type	A [mm]	B [mm]	J1 max. [mm]	C [mm]	D [mm]	J2 max. [mm]	Gripping force max. [kN]**
58454225	160 TV-N	10-74	4-67	182	74-140	67-133	188	40

**the maximum gripping force values are indicative since they depend on the number of inserts used.

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