


## 1 Guide for system selection

A lifting system can be configured by using the table (page 2) and the following steps:

1. # Lifting elements:	How many lifting elements does the application require?
2. Max. system load:	What is the maximum load that needs to be moved?
<div style="border: 1px solid black; padding: 5px;"><b>NOTE</b><ul style="list-style-type: none"><li>- Take weight of table top and frame into account</li><li>- Load distribution even – don't overload the leg</li><li>- No shock loads allowed</li><li>- Don't exceed max. allowed bending moments</li></ul></div>	
3. Stroke length:	What stroke length is required?

### Selected configuration

a) Lifting element type:	The following lifting element fits the selected configuration. <ul style="list-style-type: none"><li>- Observe drawings and data sheets!</li></ul>
b) Control box type:	The following control box fits the selected configuration. <ul style="list-style-type: none"><li>- Observe operating manual!</li></ul>

### Operating data

i. Lifting speed:	The system moves at the following lifting speed.
ii. Duty cycle On/Off:	The system can be operated with the following duty cycle. To protect the mechanical and electronic components, the control box automatically pauses «Off» after a certain «On» time. The hand switch shows «HOT» on the display.

## 2 System combinations table

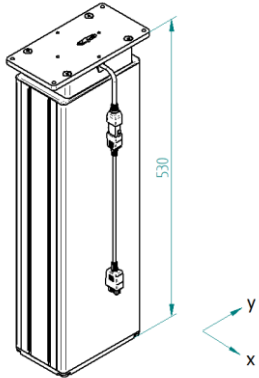
# Lifting elements	Max. System load [kg] (lbs)	Stroke length [mm] (in)	Lifting element type	Control box type 24V SCT4 iSMPS	Number of cycles per system load ②			Lifting speed [mm/s] (in/s)	Duty cycle ③
					100%	50%	0%		
1	150 (330)	400 (16")	① 1740	Akku (V1891)	118	187	246	25 (1)	1/9
		700 (28")	① 1770	Akku (V1890)	91	143	197		
2	300 (660)	400 (16")	① 1740	Akku (V1891)	54	95	107		
		700 (28")	① 1770	Akku (V1890)	43	58	84		
3	300 (660)	400 (16")	① 1740	Akku (V1891)	50	63	98		
		700 (28")	① 1770	Akku (V1890)	31	42	59		
4	300 (660)	400 (16")	① 1740	Akku (V1891)	47	47	75		
		700 (28")	① 1770	Akku (V1890)	31	31	48		

① Lifting column type SNT

② With fully charged battery

③ Duty cycle 1/9: Operating time max. 1 min, pause time 9 min







## 3 Lifting column SNT

Column SNT 17xx	Max. allowed pressure load	Max. allowed tensile load	Max. allowed Bending moments
	1'500 N (340 lbf)	stat. 500 N (112 lbf) dyn. 50 N (11 lbf)	Mbx stat. 1'000 Nm Mby stat. 750 Nm  Mbx dyn. 600 Nm Mby dyn. 300 Nm

Mb stat. = static bending moment = max. allowed bending moment while standstill

Mb dyn. = dynamic bending moment = max. allowed bending moment while lifting movement

## 4 Control box and hand switch

Control box type SCT iSMPS	Hand switch up/down	Hand switch Memory
 <p>24V SCT4 iSMPS</p>	 <p>124.00280</p>	 <p>124.00281</p>
Battery 10A	Holder	Charging station
 <p>124.00271</p>	 <p>124.00272</p>	 <p>124.00274 (charging time 5h)</p>

### Battery discharged:

The battery beeps when the charge is 25% or lower.

After that, it should not be discharged further, as this will affect its service life.

The battery should be charged to 70-80% every 3 months.

### Overload:

Low overload: Overcurrent error E60 → Remove load to continue the movement

High overload: Everything goes black → The battery will work again after a short charge

### Alternative power source:



We recommend using a battery from Ergoswiss AG.

If a different battery is connected to the 24V SCT iSMPS control box, a safety assessment must be conducted and the system must be recertified.

Ergoswiss AG assumes no liability if you connect your own voltage source.

The number of cycles per battery charge depends on the battery capacity.

The Ergoswiss AG battery has a capacity of 6Ah.

If a 2Ah battery is used, only 1/3 of the cycle count can be achieved.

If a 20Ah battery is used, three times the cycle count can be achieved.