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?
		NOTE - Take weight of table top and frame into account - Load distribution even – don't overload the leg - No shock loads allowed - Don't exceed max. allowed bending moments
3.	Stroke length:	What stroke length is required?

Selected configuration

a)	Lifting element type:	The following lifting element fits the selected configuration. - Observe drawings and data sheets!
b)	Control box type:	The following control box fits the selected configuration. - Observe operating manual!

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

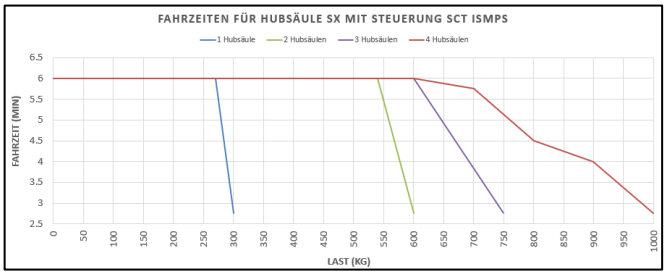
# Lifting elements	Max. System load [kg] *(lbs)*	Stroke length [mm] *(in)*	Lifting element type	Control box type 230 V	Control box type 110 V	Lifting speed [mm/s] *(in/s)*	Duty cycle ② [On/Off]
1	200 *(440)*	300 *(12")*	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 *(0.5")*	2/18
		350 *(14")*	① 1435	Compact-3 (V502)	Compact-3 (V552)		
		400 *(16")*	① 1440	Compact-3 (V500)	Compact-3 (V550)		
		450 *(18")*	① 1445	Compact-3 (V505)	Compact-3 (V557)		
	300 *(660)*	300 *(12")*	① 1330	SCT2 iSMPS (V1401)	SCT4 iSMPS (V3401)	6 – 8.5 *(0.25-0.35")*	T/40
		350 *(14")*	① 1335	SCT2 iSMPS (V1404)	SCT4 iSMPS (V3404)		
		400 *(16")*	① 1340	SCT2 iSMPS (V1400)	SCT4 iSMPS (V3400)		
		450 *(18")*	① 1345	SCT2 iSMPS (V1403)	SCT4 iSMPS (V3403)		

# Lifting elements	Max. System load [kg] *(lbs)*	Stroke length [mm] *(in)*	Lifting element type	Control box type 230 V	Control box type 110 V	Lifting speed [mm/s] *(in/s)*	Duty cycle ② [On/Off]
2	400 *(880)*	300 *(12")*	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 *(0.5")*	2/18
		350 *(14")*	① 1435	Compact-3 (V502)	Compact-3 (V552)		
		400 *(16")*	① 1440	Compact-3 (V500)	Compact-3 (V550)		
		450 *(18")*	① 1445	Compact-3 (V505)	Compact-3 (V557)		
	600 *(1'320)*	300 *(12")*	① 1330	SCT2 iSMPS (V1401)	SCT4 iSMPS (V3401)	6 – 8.5 *(0.25-0.35")*	T/40
		350 *(14")*	① 1335	SCT2 iSMPS (V1404)	SCT4 iSMPS (V3404)		
		400 *(16")*	① 1340	SCT2 iSMPS (V1400)	SCT4 iSMPS (V3400)		
		450 *(18")*	① 1345	SCT2 iSMPS (V1403)	SCT4 iSMPS (V3403)		

# Lifting elements	Max. System load [kg] *(lbs)*	Stroke length [mm] *(in)*	Lifting element type	Control box type 230 V	Control box type 110 V	Lifting speed [mm/s] *(in/s)*	Duty cycle ② [On/Off]
3	400 *(880)*	300 *(12")*	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 *(0.5")*	2/18
		350 *(14")*	① 1435	Compact-3 (V502)	Compact-3 (V552)		
		400 *(16")*	① 1440	Compact-3 (V500)	Compact-3 (V550)		
		450 *(18")*	① 1445	Compact-3 (V505)	Compact-3 (V557)		
	750 *(1'650)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401)	SCT4 iSMPS (V3401)	6 – 8.5 *(0.25-0.35")*	T/40
		350 *(14")*	① 1335	SCT2 iSMPS (V1404)	SCT4 iSMPS (V3404)		
		400 *(16")*	① 1340	SCT4 iSMPS (V1400)	SCT4 iSMPS (V3400)		
		450 *(18")*	① 1345	SCT4 iSMPS (V1403)	SCT4 iSMPS (V3403)		

# Lifting elements	Max. System load [kg] *(lbs)*	Stroke length [mm] *(in)*	Lifting element type	Control box type 230 V	Control box type 110 V	Lifting speed [mm/s] *(in/s)*	Duty cycle ② [On/Off]
4	1'000 *(2'200)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401)	SCT4 iSMPS (V3401)	6 – 8.5 *(0.25-0.35")*	T/40
		350 *(14")*	① 1335	SCT2 iSMPS (V1404)	SCT4 iSMPS (V3404)		
		400 *(16")*	① 1340	SCT4 iSMPS (V1400)	SCT4 iSMPS (V3400)		
		450 *(18")*	① 1345	SCT4 iSMPS (V1403)	SCT4 iSMPS (V3403)		
5	1'100 *(2'425)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401) 2x	SCT4 iSMPS (V3401) 2x	6 – 8.5 *(0.25-0.35")*	T/40
		350 *(14")*	① 1335	SCT2 iSMPS (V1404) 2x	SCT4 iSMPS (V3404)		
		400 *(16")*	① 1340	SCT4 iSMPS (V1400) 2x	SCT4 iSMPS (V3400) 2x		
		450 *(18")*	① 1345	SCT4 iSMPS (V1403) 2x	SCT4 iSMPS (V3403) 2x		
6	1'200 *(2'645)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401) 2x	SCT4 iSMPS (V3401) 2x		
		350 *(14")*	① 1335	SCT2 iSMPS (V1404) 2x	SCT4 iSMPS (V3404) 2x		
		400 *(16")*	① 1340	SCT4 iSMPS (V1400) 2x	SCT4 iSMPS (V3400) 2x		
		450 *(18")*	① 1345	SCT4 iSMPS (V1403) 2x	SCT4 iSMPS (V3403) 2x		
7	1'300 *(2'865)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401) 2x	SCT4 iSMPS (V3401) 2x		
		350 *(14")*	① 1335	CT2 iSMPS (V1404) 2x	CT4 iSMPS (V3404) 2x		
		400 *(16")*	① 1340	SCT4 iSMPS (V1400) 2x	SCT4 iSMPS (V3400) 2x		
		450 *(18")*	① 1345	SCT4 iSMPS (V1403) 2x	SCT4 iSMPS (V3403) 2x		
8	1'500 *(3'305)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401) 2x	SCT4 iSMPS (V3401) 2x		
		350 *(14")*	① 1335	SCT2 iSMPS (V1404) 2x	SCT4 iSMPS (V3404) 2x		
		400 *(16")*	① 1340	SCT4 iSMPS (V1400) 2x	SCT4 iSMPS (V3400) 2x		
		450 *(18")*	① 1345	SCT4 iSMPS (V1403) 2x	SCT4 iSMPS (V3403) 2x		

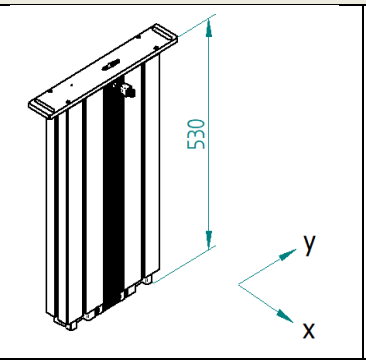
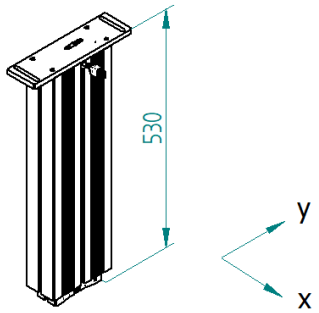
① Lifting column type SL, SK or SM
② Duty cycle 2/18: Operating time max. 2 min, pause time 18 min
② Duty cycle T/40: Operating time max. T, pause 40 min
- Load 0–60% → Operating time T = 6 min
- Load >60 % → Operating time T = 2.5-5 min



3 Lifting column SL, SK, SM

Lifting column	Max. pressure load	Max. tensile load
① **14xx**	2'000 N *(450 lbf)*	stat. 500 N *(112 lbf)* dyn. 50 N *(11 lbf)*
① **13xx**	3'000 N *(680 lbf)*	

① Lifting column type SL, SK or SM

Lifting column SL / SK		Lifting column SM	
	Mbx stat. 1'200 Nm Mby stat. 450 Nm Mbx dyn. 550 Nm Mby dyn. 200 Nm		Mbx stat. 900 Nm Mby stat. 350 Nm Mbx dyn. 450 Nm Mby dyn. 150 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 Compact	Hand switch up/down	Hand switch Memory
		
Compact-3	124.00059	124.00223

Control box type SCT iSMPS	Hand switch up/down	Hand switch Memory
		
SCT4 iSMPS SCT2 iSMPS	124.00292	124.00293