1 System configuration

Use following table to configurate your personal system:

1. # of lifting columns: How many lifting columns do you need for your application?
   (1 – 8)

2. Stroke length: How much stroke length do you need?
   (max. 300 or max. 400 mm) *(max. 12" or max. 16")*

3. Max. system load: How much weight do you need to lift?
   (200 / 400 / 600 / 1'000 / … kg) *(440 / 880 / 1'320 / 2'200 / … lbs)*

   NOTE
   - Weight of table plate/frame must be included into calculation
   - Avoid uneven load distribution
   - No high impact loads allowed
   - No pulling forces allowed
   - Consider max. allowed side forces and bending moments

4. Lifting column type: The table shows the correct type of lifting column, fitting your configuration.
   - For more information please check the data sheets and drawings

5. Control box type: The table shows the correct type of control box, fitting your configuration.
   - For more information please check the instruction manual

6. Lifting speed: The table shows the lifting speed of the system. All lifting columns drive synchronously.

7. Duty cycle On/Off: When operating the system with max. load, the spindle nut and the control box will suffer from high heat exposure. For the components to be able to cool down, it is important to take enough operating breaks.

   Duty cycle monitoring:
   After a specific operating time «On», the control box will automatically pause «Off» for a while, before allowing the user to continue with operating.
   (Cable remote control with display will show «HOT»).

2 System combinations

# 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	Duty cycle [On/Off]
1	200 *(440)*	300 *(12")*	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 mm/s *(0.47"/s)*	2/18 min
		400 *(16")*	① 1440	Compact-3 (V500)	Compact-3 (V550)		

# 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	Duty cycle [On/Off]
2	400 *(880)*	300 *(12")*	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 mm/s *(0.5"/s)*	2/18 min
		400 *(16")*	① 1440	Compact-3 (V500)	Compact-3 (V550)		
	600 *(1'320)*	300 *(12")*	① 1330	SCT2 iSMPS (V1401)	SCT4 iSMPS (V3401)	6–8.5 mm/s *(0.25–0.35"/s)*	2/40 min
		400 *(16")*	① 1340	SCT2 iSMPS (V1400)	SCT4 iSMPS (V3400)		

# 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	Duty cycle [On/Off]
3	400 *(880)*	300 *(12")*	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 mm/s *(0.5"/s)*	2/18 min
		400 *(16")*	① 1440	Compact-3 (V500)	Compact-3 (V550)		
	750 *(1'650)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401)	SCT4 iSMPS (V3401)	6–8.5 mm/s *(0.25–0.35"/s)*	2/40 min
		400 *(16")*	① 1340	SCT4 iSMPS (V1400)	SCT4 iSMPS (V3400)		

# 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	Duty cycle [On/Off]
4	1'000 *(2'200)*	300 *(12")*	① 1330	SCT4 iSMPS (V1401)	SCT4 iSMPS (V3401)	6–8.5 mm/s *(0.25–0.35"/s)*	2/40 min
		400 *(16")*	① 1340	SCT4 iSMPS (V1400)	SCT4 iSMPS (V3400)		

# 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	Duty cycle [On/Off]
5	1'100 *(2'425)*	300 *(12")*	① 1330	2x SCT4 iSMPS (V1401)	2x SCT4 iSMPS (V3401)	6–8.5 mm/s *(0.25–0.35"/s)*	2/40 min
		400 *(16")*	① 1340	2x SCT4 iSMPS (V1400)	2x SCT4 iSMPS (V3400)		
6	1'200 *(2'645)*	300 *(12")*	① 1330	2x SCT4 iSMPS (V1401)	2x SCT4 iSMPS (V3401)		
		400 *(16")*	① 1340	2x SCT4 iSMPS (V1400)	2x SCT4 iSMPS (V3400)		
7	1'300 *(2'865)*	300 *(12")*	① 1330	2x SCT4 iSMPS (V1401)	2x SCT4 iSMPS (V3401)		
		400 *(16")*	① 1340	2x SCT4 iSMPS (V1400)	2x SCT4 iSMPS (V3400)		
8	1'500 *(3'305)*	300 *(12")*	① 1330	2x SCT4 iSMPS (V1401)	2x SCT4 iSMPS (V3401)		
		400 *(16")*	① 1340	2x SCT4 iSMPS (V1400)	2x SCT4 iSMPS (V3400)		

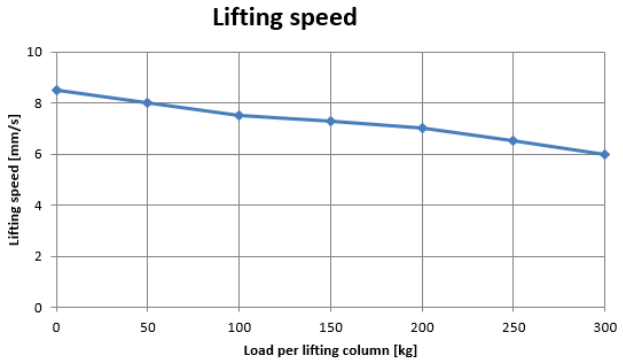
① Lifting column SL, SK or SM

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	124.00280	124.00281

3 Lifting column – load-dependent lifting speed

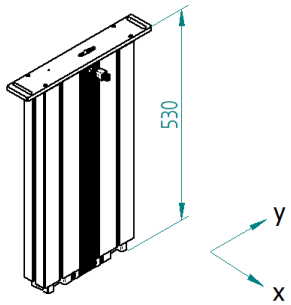
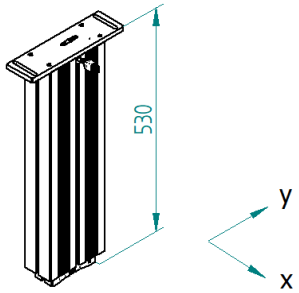
Lifting column SL 13xx / SK 13xx / SM 13xx



4 Lifting column – allowed loads

Lifting column type	Max. pressure load	Max. tensile load
① **14xx**	2'000 N *(441 lbs)*	stat. 500 N *(110 lbs)* dyn. 50 N *(11 lbs)*
① **13xx**	3'000 N *(661 lbs)*	

① Hubsäule SL, SK oder SM

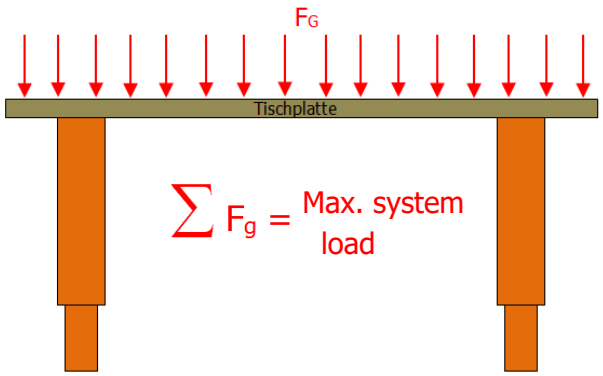
Lifting column SL / SK		Lifting column SM	
	Mbx stat. 1'200 Nm *(885 lbf·ft)* Mby stat. 450 Nm *(332 lbf·ft)* Mbx dyn. 550 Nm *(406 lbf·ft)* Mby dyn. 200 Nm *(148 lbf·ft)*		Mbx stat. 900 Nm *(664 lbf·ft)* Mby stat. 350 Nm *(258 lbf·ft)* Mbx dyn. 450 Nm *(332 lbf·ft)* Mby dyn. 150 Nm *(111 lbf·ft)*

5 Table frame – allowed loads

Evenly distributed load

NOTE
One lifting column SX 14xx can lift max. **2'000 N** ***(441 lbs)***!
One lifting column SX 13xx can lift max. **3'000 N** ***(661 lbs)***!

ATTENTION
High impact loads on an already heavily loaded system are not allowed! *

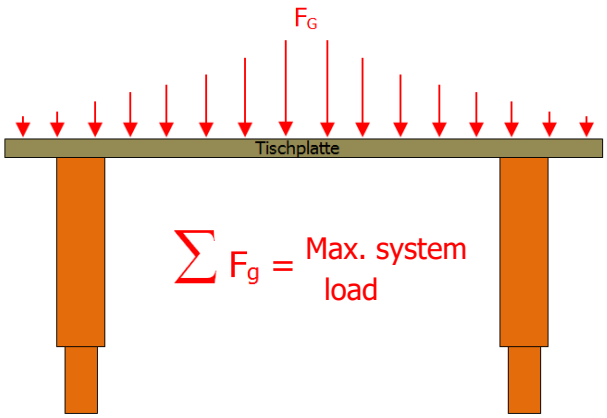


Centrically distributed load

NOTE
One lifting column SX 14xx can lift max. **2'000 N** ***(441 lbs)***!
One lifting column SX 13xx can lift max. **3'000 N** ***(661 lbs)***!

NOTE
Consider max. allowed side forces and bending moments!

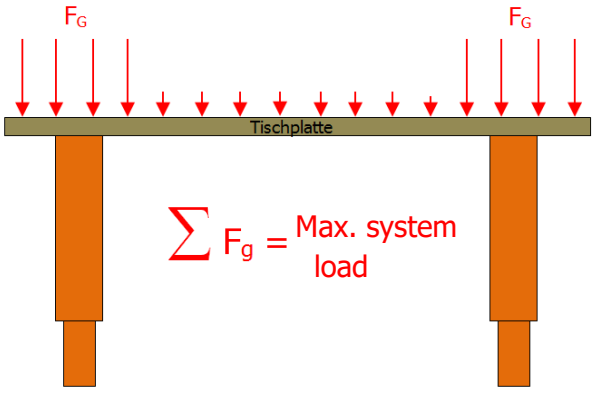
ATTENTION
High impact loads on an already heavily loaded system are not allowed! *



Load on lifting columns

NOTE
One lifting column SX 14xx can lift max. **2'000 N** ***(441 lbs)***!
One lifting column SX 13xx can lift max. **3'000 N** ***(661 lbs)***!

ATTENTION
High impact loads on an already heavily loaded system are not allowed! *



* It is not allowed to place the max. load onto the table in a fast motion (crane or lift truck)!