

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
- 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, strong heat is generated during the lifting movement inside the gearbox, the spindle nut and the control box. 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.

2 System combinations

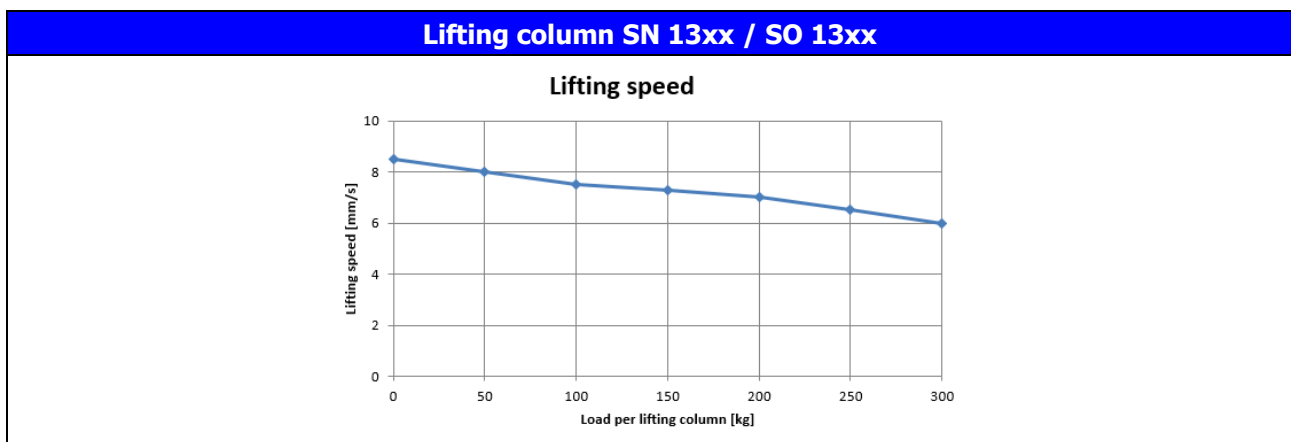
# Lifting elements	Max. system load [kg] (lbs)	Stroke length [mm] (in)	Lifting element Type	Control box type		Lifting speed	Duty cycle [On/Off]
				230 V	110 V		
1	200 (440)	300 (12")	① 1430	Compact-3 (V501)	Compact-3 (V551)	12 mm/s (0.47"/s)	2/18 min
		400 (16")	① 1440	Compact-3 (V500)	Compact-3 (V550)		
2	400 (880)	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)		
	600 (1'320)	300 (12")	① 1330	SCT2 iSMPS (V1401)	SCT4 iSMPS (V3401)	6–8.5 mm/s (0.24–0.33"/s)	2/40 min
		400 (16")	① 1340	SCT2 iSMPS (V1400)	SCT4 iSMPS (V3400)		
3	400 (880)	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)		
	750 (1'650)	300 (12")	① 1330	SCT4 iSMPS (V1401)	SCT4 iSMPS (V3401)	6–8.5 mm/s (0.24–0.33"/s)	2/40 min
		400 (16")	① 1340	SCT4 iSMPS (V1400)	SCT4 iSMPS (V3400)		
4	1'000 (2'200)	300 (12")	① 1330	SCT4 iSMPS (V1401)	SCT4 iSMPS (V3401)	6–8.5 mm/s (0.24–0.33"/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		Lifting speed	Duty cycle [On/Off]
				230 V	110 V		
5	1'100 (2'425)	300 (12")	① 1330	2x SCT4 iSMPS (V1401)	2x SCT4 iSMPS (V3401)	6–8.5 mm/s (0.24–0.33"/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 SN or SO

<p>Control box Type Compact</p>  <p>Compact-3</p>	<p>Hand switch Up-Down</p>  <p>124.00059</p>	<p>Hand switch Memory</p>  <p>124.00223</p>
<p>Control box Type SCT iSMPS</p>  <p>SCT4 iSMPS SCT2 iSMPS</p>	<p>Hand switch Up-Down</p>  <p>124.00280</p>	<p>Hand switch Memory</p>  <p>124.00281</p>

3 Lifting column – load-dependent lifting speed



4 Lifting column – allowed loads

Lifting column type	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 (674 lbf)	



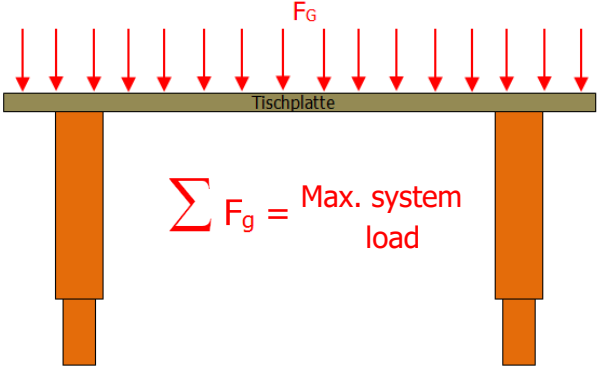



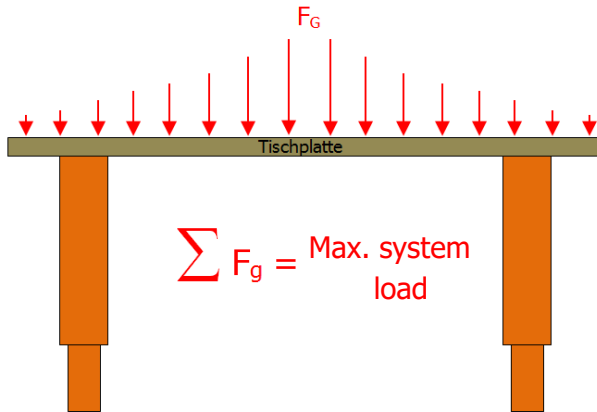


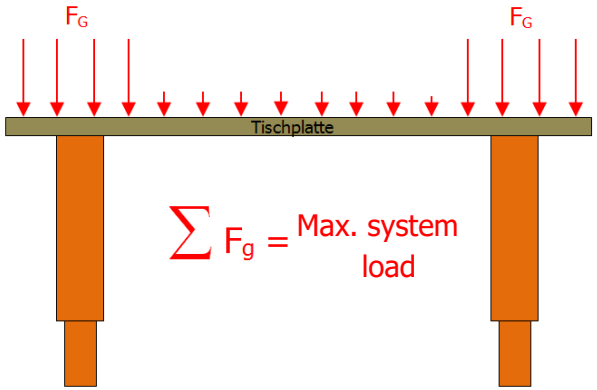
① Lifting column SN or SO

Lifting column SN ①	Lifting column SO ①
<p>Mbx stat. 900 Nm (664 lbf·ft) Mby stat. 600 Nm (443 lbf·ft) Mbx dyn. 200 Nm (148 lbf·ft) Mby dyn. 300 Nm (221 lbf·ft)</p>	<p>Mbx stat. 350 Nm (258 lbf·ft) Mby stat. 350 Nm (258 lbf·ft) Mbx dyn. 200 Nm (148 lbf·ft) Mby dyn. 200 Nm (148 lbf·ft)</p>

① Mb stat. = static bending moment = max. allowed bending moment while standstill

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

5 Table frame – allowed loads

Evenly distributed load	
<p>NOTE</p> <p> 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)!</p> <p>ATTENTION</p> <p> High impact loads on an already heavily loaded system are not allowed! *</p>	
Centrically distributed load	
<p>NOTE</p> <p> 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)!</p> <p>NOTE</p> <p> Consider max. allowed side forces and bending moments!</p> <p>ATTENTION</p> <p> High impact loads on an already heavily loaded system are not allowed! *</p>	
Load on lifting columns	
<p>NOTE</p> <p> 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)!</p> <p>ATTENTION</p> <p> High impact loads on an already heavily loaded system are not allowed! *</p>	

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