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 – 4)

2. Stroke length: How much stroke length do you need?
   (400 / 700 mm) *(16 / 28")*

3. Max. system load: How much weight do you need to lift?
   (150 / 300 / 450 / 500 / … kg) *(330 / 660 / 990 / 1'100 / … 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	Stroke length	Lifting element	Control box type		Lifting speed	Duty cycle
	[kg] *(lbs)*	[mm] *(in)*	Type	230 V	110 V		[On/Off]
1	150 *(330)*	400 *(16")*	SNT 1740	SCT2 iSMPS (V6020)	SCT4 iSMPS (V6120)	25 mm/s *(0.98"/s)*	2/40 min
	150 *(330)*	700 *(28")*	SNT 1770	SCT2 iSMPS (V6000)	SCT4 iSMPS (V6100)		

# Lifting elements	Max. system load	Stroke length	Lifting element	Control box type		Lifting speed	Duty cycle
	[kg] *(lbs)*	[mm] *(in)*	Type	230 V	110 V		[On/Off]
2	300 *(660)*	400 *(16")*	SNT 1740	SCT2 iSMPS (V6020)	SCT4 iSMPS (V6120)	25 mm/s *(0.98"/s)*	2/40 min
	300 *(660)*	700 *(28")*	SNT 1770	SCT2 iSMPS (V6000)	SCT4 iSMPS (V6100)		

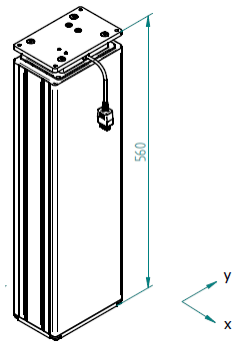
# Lifting elements	Max. system load	Stroke length	Lifting element	Control box type		Lifting speed	Duty cycle
	[kg] *(lbs)*	[mm] *(in)*	Type	230 V	110 V		[On/Off]
3	450 *(990)*	400 *(16")*	SNT 1740	SCT4 iSMPS (V6020)	SCT4 iSMPS (V6120)	25 mm/s *(0.98"/s)*	2/40 min
	450 *(990)*	700 *(28")*	SNT 1770	SCT4 iSMPS (V6000)	SCT4 iSMPS (V6100)		

# Lifting elements	Max. system load	Stroke length	Lifting element	Control box type		Lifting speed	Duty cycle
	[kg] *(lbs)*	[mm] *(in)*	Type	230 V	110 V		[On/Off]
4	500 *(1'100)*	400 *(16")*	SNT 1740	SCT4 iSMPS (V6020)	SCT4 iSMPS (V6120)	25 mm/s *(0.98"/s)*	2/40 min
	500 *(1'100)*	700 *(28")*	SNT 1770	SCT4 iSMPS (V6000)	SCT4 iSMPS (V6100)		

Control box Type SCT iSMPS	Hand switch Up-Down	Hand switch Memory
 SCT4 iSMPS SCT2 iSMPS	 124.00280	 124.00281

3 Lifting column – allowed loads

Lifting column type	Max. pressure load	Max. tensile load
SNT 17xx	1'500 N *(337 lbf)*	stat. 500 N *(112 lbf)* dyn. 50 N *(11 lbf)*

Lifting column SNT	
	Mbx stat. 1'000 Nm *(738 lbf·ft)* ① Mby stat. 750 Nm *(553 lbf·ft)* ① Mbx dyn. 600 Nm *(443 lbf·ft)* ① Mby dyn. 300 Nm *(221 lbf·ft)* ①

① Mb stat. = static bending moment = max. allowed bending moment while standstill
Mb dyn. = dynamic bending moment = max. allowed bending moment during lifting movement

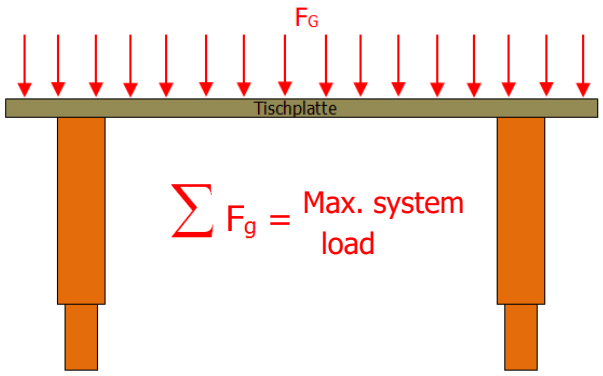
4 Table frame – allowed loads

Evenly distributed load

NOTE
One lifting column SNT 1770 can lift max. **1'500 N *(337 lbf)***!

ATTENTION

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



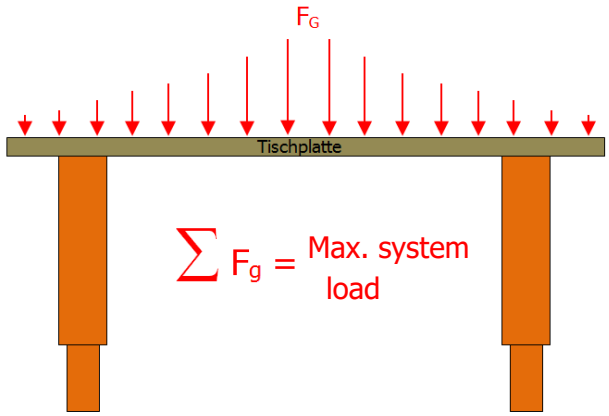
Centrically distributed load

NOTE
One lifting column SNT 1770 can lift max. **1'500 N *(337 lbf)***!

NOTE
Consider max. allowed side forces and bending moments!

ATTENTION

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

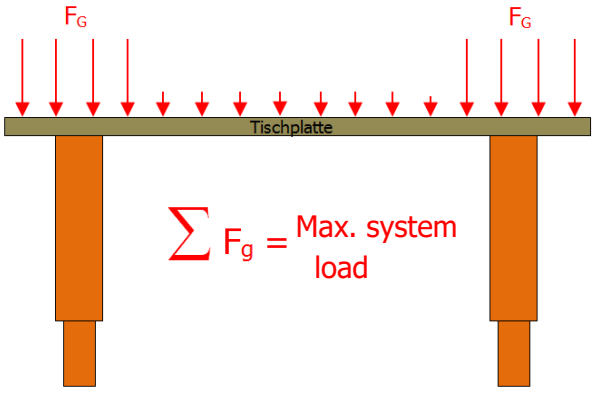


Load on lifting columns

NOTE
One lifting column SNT 1770 can lift max. **1'500 N *(337 lbf)***!

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)!