

SCHUNK Check-lists for Linear Modules

On the following Pages, you can find Check-lists for describing and preselecting your desired Application.

Check-lists



Check-lists

General Information Linear Modules	610
Pick & Place Units	614
Standard Line and Room Gantries	616



Check-list Linear Modules General Information

1. Task description

Please provide an accurate description of the task.

2. Requirement information (please check or elaborate)

One-time application

Technical improvement

Series, quantities per year:

Cost reduction

New design

Other:

3. Axis information – System configuration (please tick)

x



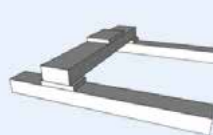
z



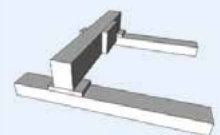
x-x



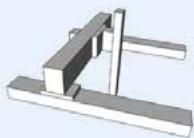
x-x-y



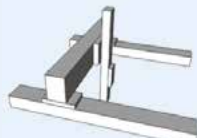
x-x-y



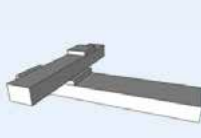
x-x-y-z



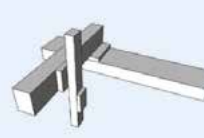
x-x-y-z



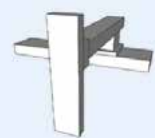
x-y



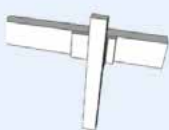
x-y-z



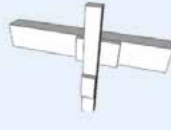
x-y-z



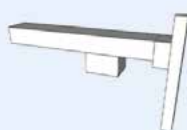
x-z



x-z

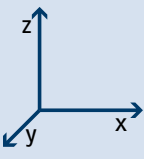

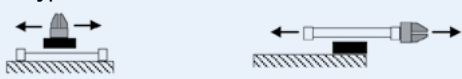


x-z



Check-list Linear Modules General Information

3. Axis information - System configuration (please tick)

		X-axis horizontal	Y-axis horizontal	Z-axis vertical	
 Basic information	Payload (load)	[kg]		Slide position: top (1) lateral (2) bottom (3) 	
	Slide position: enter relevant number (1 .. 3)				
	Drive type: 1 = toothed belt; 2 = spindle; 3 = rack; 4 = linear direct; 5 = pneumatic				
	Attachment type: 		<input type="checkbox"/> Standard <input type="checkbox"/> Cantilever	<input type="checkbox"/> Standard <input type="checkbox"/> Cantilever	<input type="checkbox"/> Standard <input type="checkbox"/> Cantilever
	Slide motion (standard) Axis motion (cantilever)				
Useful stroke		[mm]			
Load	Additional force (e.g. process force) available? If so, please include additional information in the sketch.		<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Dynamics (only for electrical axis)	Speed v_{max}	[m/s]			
	Acceleration a_{max}	[m/s ²]			
Emergency stop function			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Operating data	Total cycle time (inc. rest period)	[s]			
	Minimum traveling time for one stroke	[s]			
	Minimum traveling time for one stroke	[s]			
	Operating hours per year	[hrs] on [days]	hrs on	days	
Operating pressure (only for pneumatic axis)	[bar]				
Accuracy	Min. repeat accuracy	[mm]			
Environment	Temperature	[°C]			
	Air humidity	[%]			
	Dirt, interference fields, place of use				
Drive concept (only for electrical axis)	Drive components		<input type="checkbox"/> Motor <input type="checkbox"/> Controller <input type="checkbox"/> Cable set _____ m (5 m, 10 m, 15 m, 20 m)		
	Manufacturer drive components		<input type="checkbox"/> Bosch Rexroth Indradrive® CS type <input type="checkbox"/> Siemens® Sinamics <input type="checkbox"/> _____		
	Interface		<input type="checkbox"/> Profibus® <input type="checkbox"/> Profinet® <input type="checkbox"/> EtherCAT® <input type="checkbox"/> _____		

Check-list Linear Modules General Information

4. Accessories

	X-axis horizontal	Y-axis horizontal	Z-axis vertical
Mounting strip, number of T-nuts			
Limit switch (mechanical, inductive)			
Drag chain assembly	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no

5. Documentation

- SCHUNK standard design
 Language: English / Scope: mounting instructions, drawing(s), parts list(s) / Delivery type: PDFs on CD-ROM
- Special design (additional cost) Definition:

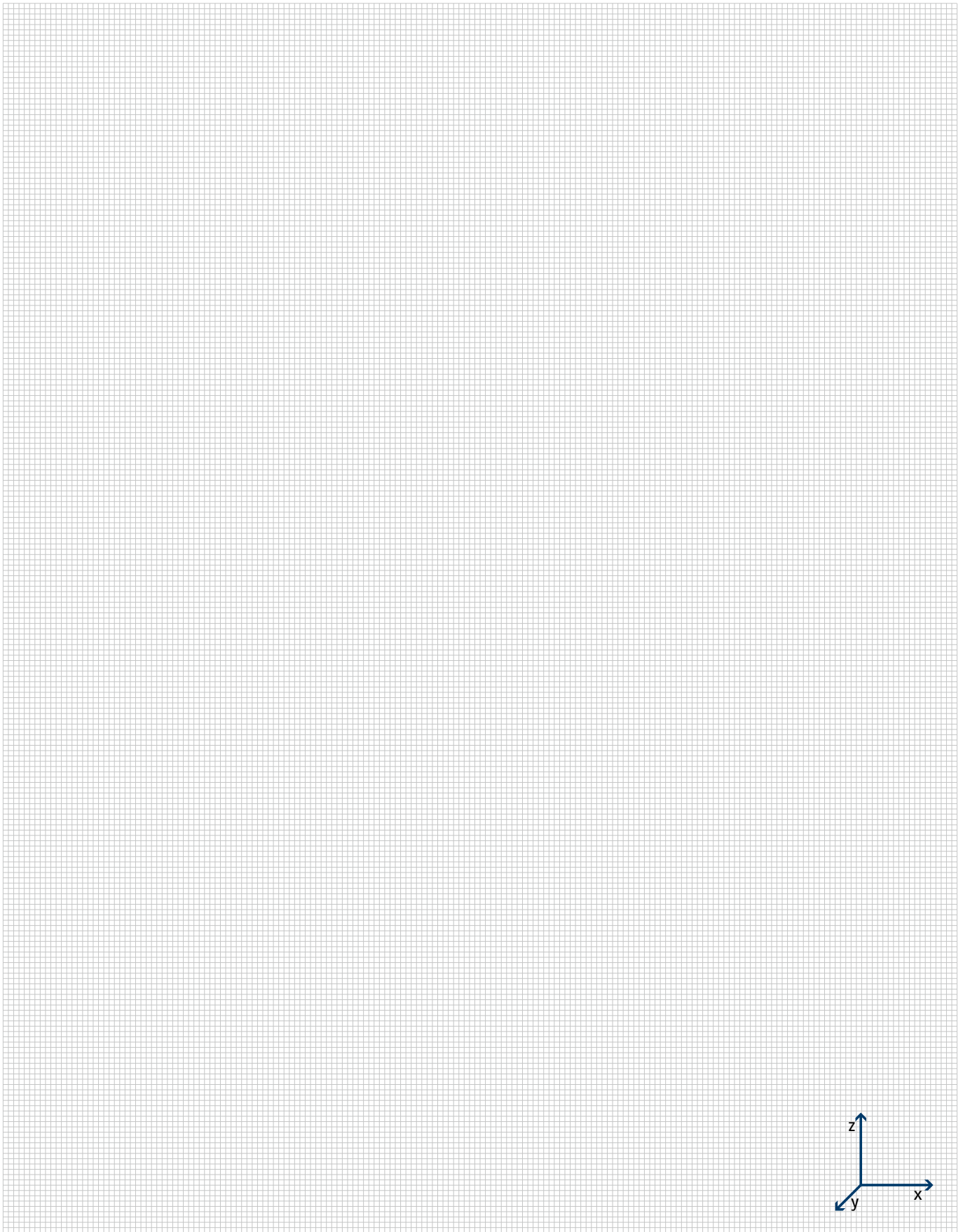
6 Cycle table (each system axis considered individually)

Cycle step	Axis	Traverse path [mm]	Permissible travel time [s]	Shutdown after positioning [s]	Additional load (e.g. workpiece) [kg]
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

7. Customer Information

Company	Zip Code/City
Street Number	Project
Contact Person	Tel.
E-Mail	Fax

8. Sketch



Check-list Pick & Place Units

1. Task description

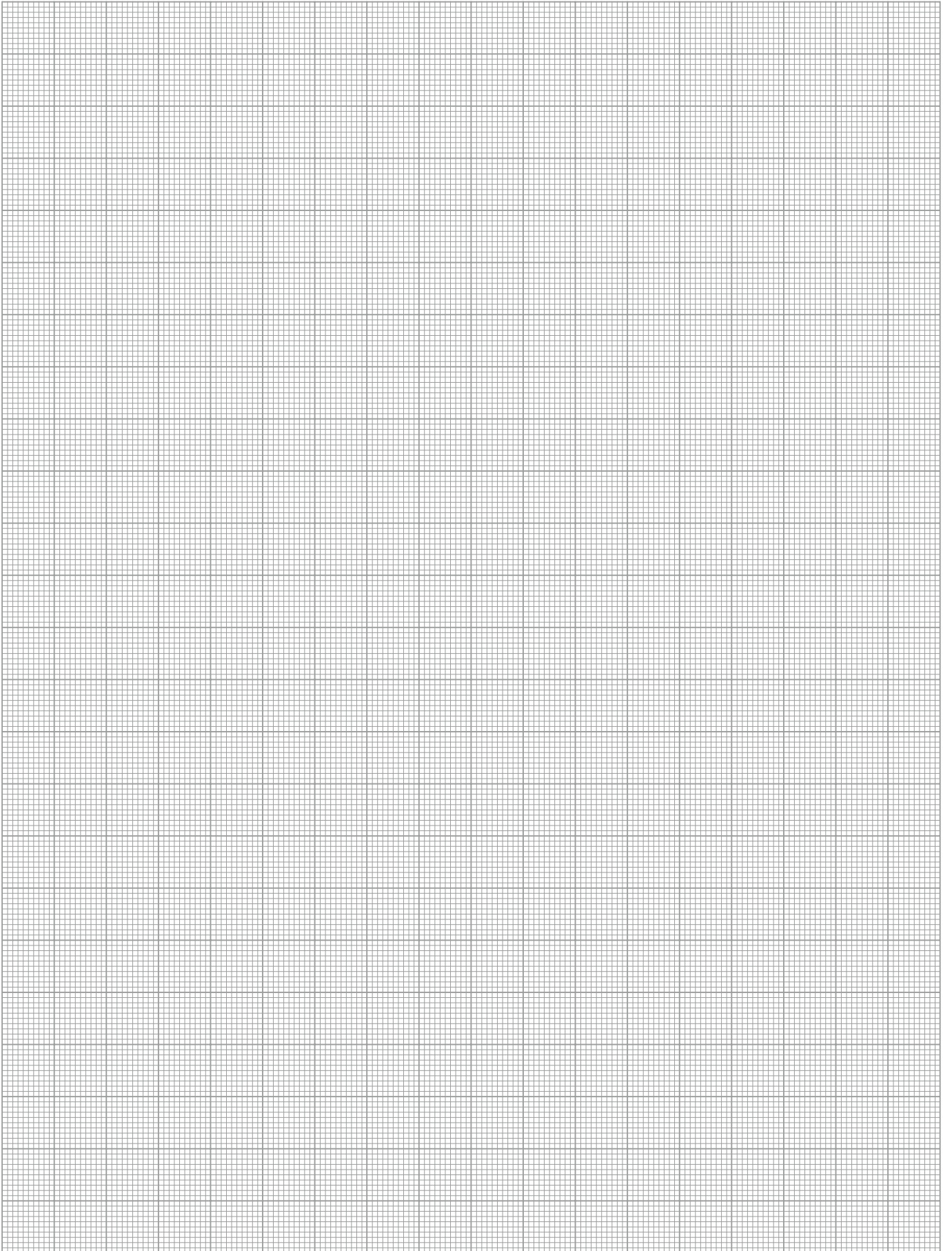
Please provide an accurate description of the task.

2. Requirement information (please check or complete)

<input type="checkbox"/> One-time application	<input type="checkbox"/> Technical improvement
<input type="checkbox"/> Series, quantity per year:	<input type="checkbox"/> Cost reduction
<input type="checkbox"/> New design	<input type="checkbox"/> Other:

3. System configuration (please check)

Basic information	Payload	m	[kg]		<p>* Only required with different support and storage heights</p>
	Total horizontal stroke	Y_{total}	[mm]		
	Total vertical stroke	Z_{total}	[mm]		
	Linear vertical stroke	Z_L	[mm]		
	Total vertical stroke*	Z_{total}^*	[mm]		
	Linear vertical stroke*	Z_L^*	[mm]		
	Gripping time	P_1	[ms]		
	Gripping time	P_2	[ms]		
	Picks per minute	PPM	[ppm]		
	Repeat accuracy per axis		[mm]		
	Intermediate horizontal positions required		<input type="checkbox"/> No	<input type="checkbox"/> Yes, quantity:	
Intermediate vertical positions required		<input type="checkbox"/> No	<input type="checkbox"/> Yes, quantity:		
Load	Additional force (e.g. process force) available? If so, please include additional information in the sketch.		<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Dynamics (only for electrical axes)	Speed v_{max}		[m/s]		
	Acceleration a_{max}		[m/s ²]		
Operating data	Operating hours per year		hrs on	days	
Environment	Temperature		[°C]		
	Air humidity		[%]		
	Dirt, interference fields, place of use				



Check-lists for Standard Line and Room Gantries

1. Task description

Please provide an accurate description of the task.

2. Requirement information (please check or complete)

<input type="checkbox"/> One-time application	<input type="checkbox"/> Technical improvement
<input type="checkbox"/> Series, number of units per year:	<input type="checkbox"/> Cost reduction
<input type="checkbox"/> New design	<input type="checkbox"/> Other:

3. System configuration (please tick)

LPP – Pneumatic line gantries							
Defined payload	[kg]	<input type="checkbox"/> max. 5					
Horizontal stroke (adjustable up to 50 mm on each side)	[mm]	<input type="checkbox"/> 300	<input type="checkbox"/> 400	<input type="checkbox"/> 500	<input type="checkbox"/> 600	<input type="checkbox"/> 700	<input type="checkbox"/> 800
		<input type="checkbox"/> 900	<input type="checkbox"/> 1100	<input type="checkbox"/> 1200	<input type="checkbox"/> 1300	<input type="checkbox"/> 1400	<input type="checkbox"/> 1500
Vertical stroke (adjustable up to 25 mm on each side)	[mm]	<input type="checkbox"/> 25	<input type="checkbox"/> 50	<input type="checkbox"/> 75	<input type="checkbox"/> 100	<input type="checkbox"/> 125	<input type="checkbox"/> 175
		<input type="checkbox"/> 225					
Pillar height	[mm]	<input type="checkbox"/> 400	<input type="checkbox"/> 600	<input type="checkbox"/> none			
LPE – Electric line gantries							
Defined payload	[kg]	<input type="checkbox"/> max. 10	<input type="checkbox"/> max. 20				
Horizontal stroke Y-axis	[mm]	<input type="checkbox"/> 500	<input type="checkbox"/> 800	<input type="checkbox"/> 1000	<input type="checkbox"/> 1200	<input type="checkbox"/> 1500	
Vertical stroke Z-axis	[mm]	<input type="checkbox"/> 100	<input type="checkbox"/> 300	<input type="checkbox"/> 500			
Pillar height	[mm]	<input type="checkbox"/> 400	<input type="checkbox"/> 600	<input type="checkbox"/> 800	<input type="checkbox"/> none		

3. System configuration (please tick)

RPE – Electric room gantries							
Defined payload	[kg]	<input type="checkbox"/> max. 10	<input type="checkbox"/> max. 20				
Horizontal stroke X-axis	[mm]	<input type="checkbox"/> 500	<input type="checkbox"/> 800	<input type="checkbox"/> 1000	<input type="checkbox"/> 1200	<input type="checkbox"/> 1500	
Horizontal stroke Y-axis	[mm]	<input type="checkbox"/> 500	<input type="checkbox"/> 800	<input type="checkbox"/> 1000	<input type="checkbox"/> 1200	<input type="checkbox"/> 1500	
Vertical stroke Z-axis	[mm]	<input type="checkbox"/> 100	<input type="checkbox"/> 300	<input type="checkbox"/> 500			
Environment							
Temperature	[°C]						
Air humidity	[%]						
Dirt, interference fields, location of use							
Motor (only for LPE and RPE)							
<input type="checkbox"/> with drive (motor, coupling, motor flange), motor type Bosch Rexroth MSK							
<input type="checkbox"/> without drive (drive must be designed and assembled by the customer.)							
Note: Drives from other manufacturers can also be designed and assembled. However, this entails additional expense in project development and construction. Please contact us for assistance.							

4. Accessories

Controller	<input type="checkbox"/> Bosch Rexroth Indradrive® CS						
Interfaces	<input type="checkbox"/> Profibus®	<input type="checkbox"/> Profibus®	<input type="checkbox"/> EtherCAT®	<input type="checkbox"/>			
Cable set length	<input type="checkbox"/> 5 m	<input type="checkbox"/> 10 m	<input type="checkbox"/> 15 m	<input type="checkbox"/> 20 m	<input type="checkbox"/>	m	

5. Documentation

<input type="checkbox"/> SCHUNK standard design Language: English / Scope: mounting instructions, drawing(s), parts list(s) / Delivery type: PDFs on CD-ROM	
<input type="checkbox"/> Special design (additional cost)	Definition:

6. Customer Information

Company	Zip Code/City
Street Number	Project
Contact Person	Tel.
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