

Groups			
Description		Total	
Group Structure			
Hinge for 3030 Profil		1	
3030 T-Slot Profil	Size	10	
	540mm	1	
	230mm	4	
	210mm	1	
	150mm	1	
	200 mm	2	
	225mm	1	
3030 Covers		5	
Angle with Nut M8 for 3030 Profil		11	
Cylindrical screw M4x10		22	
Group: Drive Wheel (in Maschine 2x)			
	For Group	Total machine	
Nema 17 Stepper Motor	1	2	
Motor coupling; D: 5 mm to 8 mm	1	2	
Bearings 8x16x5 mm	1	2	
Round Metal Bar; D: 8 mm, L: 60 mm	1	2	
Cylindrical screw M4x14	2	4	
Cylindrical screw M3x16	4	8	
T-Nut Hammer Head Nut M4	2	4	
3D Printed Motor Holder	1	2	
3D Printed Motor Axle Mount	1	2	
3D Drive Wheel	1	2	
Group: Trailing Wheel (in Maschine 2x)			
	für eine Baugr für gesamte Maschine		
Hexagon Head Screws with Shaft M8 x 80	1	2	
Aluminium Spacer Sleeve 8mm x 6mm x 1mm (Out	2	4	
T-Nut Hammer Head Nut M4	2	4	
Cylindrical screw M4x14	2	4	
Bearings 8x16x5	2	4	
Lock Nut M8	1	2	
3D Trailing Wheel	1	2	
3D Printed Axle Holder Trailing Wheel	1	2	
Group: Spindel Plattform			
Linear bearing		2	
Nema 17 Stepper Motor		1	
3D Printed Spindel Plattform A		1	
3D Printed Spindel Plattform B		1	
Bearing 8x16x5		2	
Spacer Sleeve 8x10x5 L 5mm		2	
GT2 Pulley 20 teeth		1	

Electronics	D
Arduino Mega	c
Motor_NEMA17	H
End stopper	M
PC power supply (ATX) + cable	4
Driver modules	F
Motorshield - RAMPS 1.4 shield	M
Heat sinks	H
Conectores	f
Conectores	f
Heat-shrink Tubing	H

GT2 Pulley 40 teeth		1
Belt Pulley		1
Cylindrical Screw M3x12		4
Nut M3		16
Cylindrical Screw M3x30		16
Round Metal Bar; D: 8 mm, L: 90 mm		1
Trapezoidal Screw Nut T8		1
Cylindrical screw M3x10		1
Group: Spindle		
3D Printed Spindle		1
3D Printed Spindle Carrier		1
Group: Elevator		
Group Spindle		1
Group Spindel Plattform		1
Guide Rod: Round Metal Bar; D: 8 mm, L: 225 mm		2
Spindel T8; L: 200 mm		1
Bearing 8x16x5		1
Cylindrical screw M4x14		1
T-Nut Hammer Head Nut M4		1
M3 Nut		4
Cylindrical screw M3x30		4
Elastic Motor Coupling 5mm to 8mm		1
Nema 17 Stepper Motor		1
Cylindrical screw M3x20		4
Cylindrical screw M8x20		1
3D Spinning Ring		1
3D Elevator Lower Part		1
Group: Final Assembly		
Cylindrical screw M8x20		1
3D Yarn Guide Back		1
3D Yarn Guide Front		1
3D Hinge Stop		2
3D Yarn Outlet		1
Cylindrical screw M4x14		1
T-Nut Hammer Head M4		3
Cylindrical screw M4x8		2
Velcro Fastener Loop	etwa 200mm	1
Velcro Fastener Hook	etwa 70mm	1

Description	Total
3D Printed Pieces	

3D Yarn Guide Back		1
3D Yarn Guide Front		2
3D Hinge Stop		1
3D Yarn Outlet		1
3D Printed Motor Holder		2
3D Printed Motor Axle Mount		2
3D Drive Wheel		2
3D Trailing Wheel		2
3D Printed Axle Holder Trailing Wheel		2
3D Printed Spindel Plattform A		1
3D Printed Spindel Plattform B		1
3D Printed Spindle		1
3D Printed Spindle Carrier		1
3D Spinning Ring		1
3D Elevator Lower Part		1

Werkzeug	
Tap wrench M8	
Kappsäge	
Inbusschlüsselset	
Level	
2 x Screw clamps	
Measuring Tape	
Caliper	

Menge
1
5
2
1
4
1
5
2
5
1

