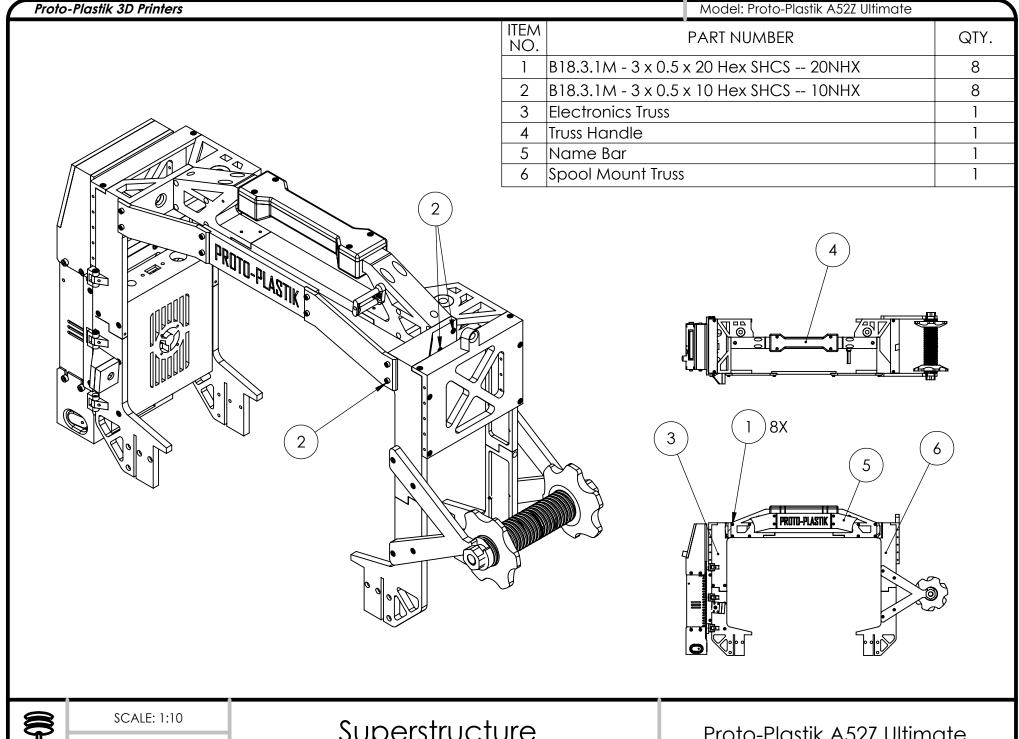
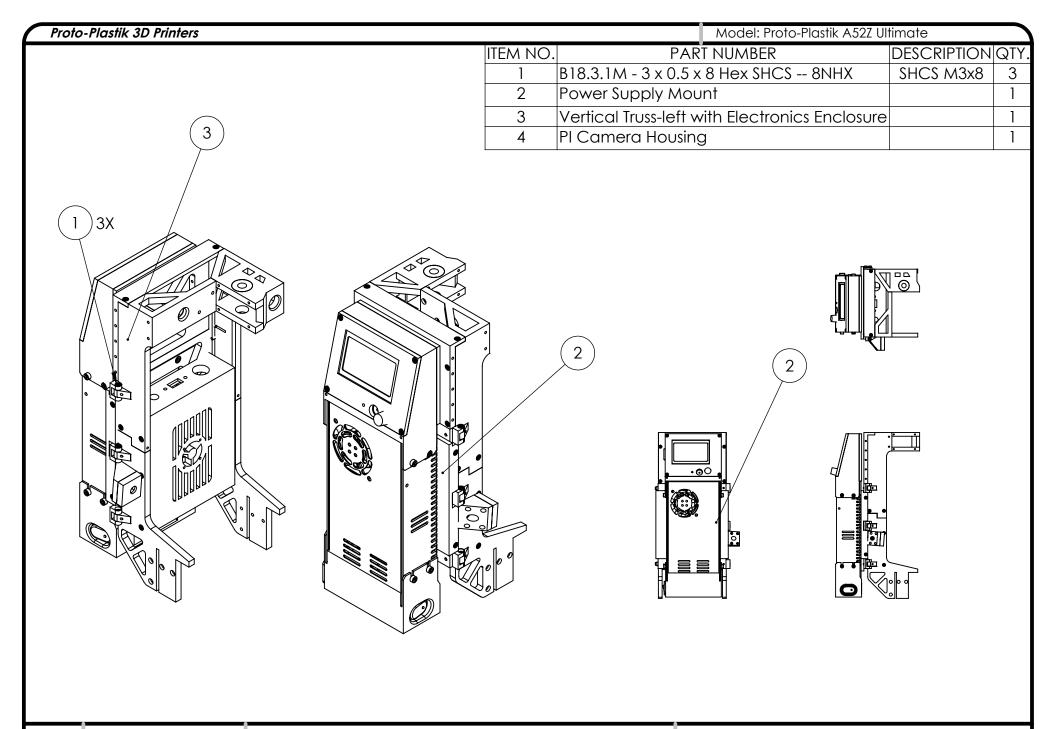


SHEET 1 OF 25

Top Level Assembly



SHEET 2 OF 25

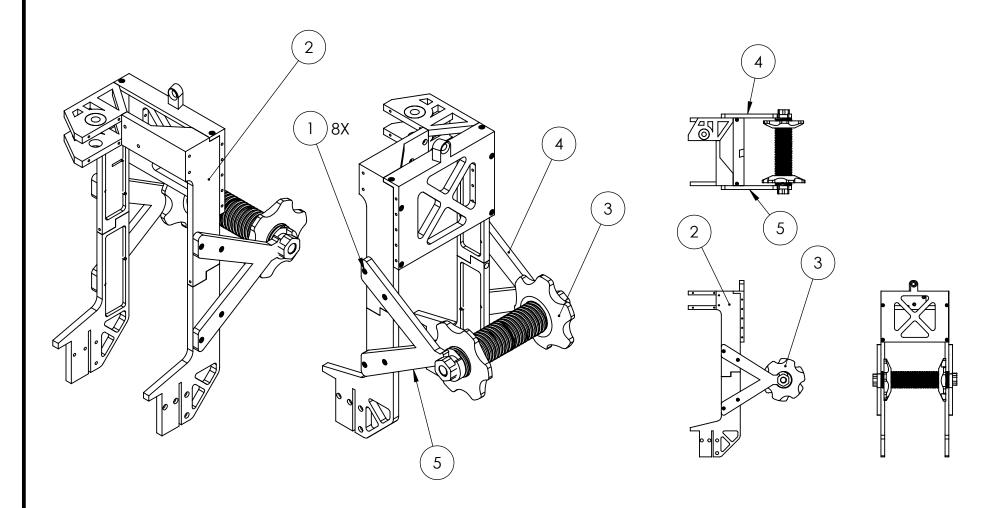




SHEET 3 OF 25

Proto-Plastik 3D Printers

ITEM NO.	PART NUMBER	QTY.
1	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	8
2	Vertical Truss-right with Spool Mount	1
3	Filament Spool Holder	1
4	spool holder bracket - rear	1





SCALE: 1:8

SHEET 4 OF 25

Spool Mount Truss

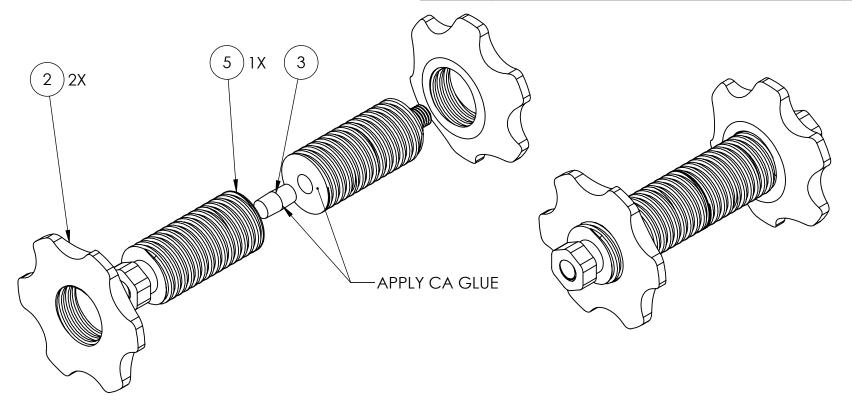
Proto-Plastik A52Z Ultimate

spool holder bracket - front

Model: Proto-Plastik A52Z Ultimate

ITEM NO. PART NUMBER ULTIMATE/QTY

1 filament spool holder spindle-shaft 1
2 filament spool holder spindle-hub 2
3 Proto-Plastik filament spool holder spindle pin 1
4 filament spool holder spindle-retainer 1
5 filament spool holder spindle-shaft 1
6 filament spool holder spindle-retainer 1



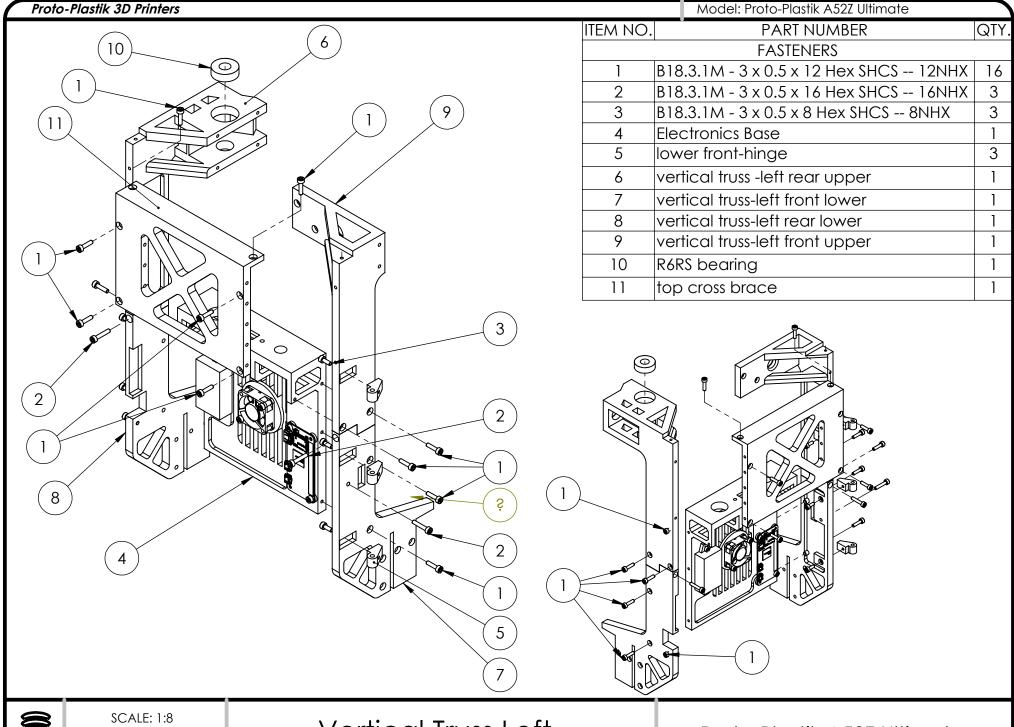


SCALE: 1:2

Proto-Plastik 3D Printers

SHEET 5 OF 25

Filament Spool Holder



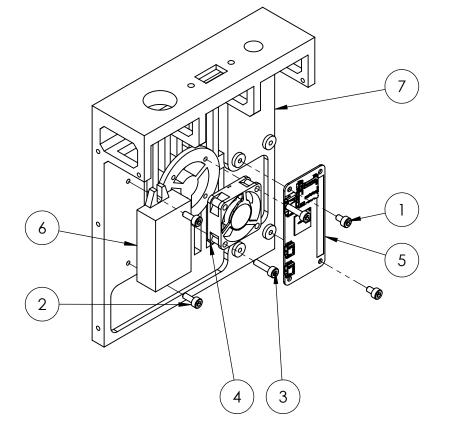
SHEET 6 OF 25

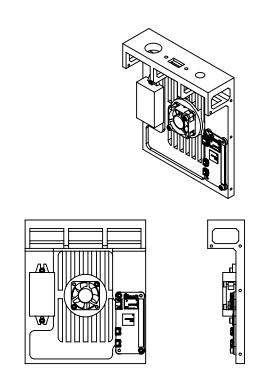
Vertical Truss Left

Proto-Plastik 3D Printers

Model: Proto-Plastik A52Z Ultimate

	Wieder Fele Flashk / Kezz emiliare				
	ITEM NO.	PART NUMBER	QTY.		
	1	B18.3.1M - 3 x 0.5 x 5 Hex SHCS 5NHX	2		
	2	B18.3.1M - 3 x 0.5 x 8 Hex SHCS 8NHX	2		
	3	B18.3.1M - 3 x 0.5 x 12 Hex SHCS 12NHX	2		
	4	30x10 fan	1		
	5	raspberry_pi_zero	1		
	6	12v to USB	1		
	7	electronics base	1		



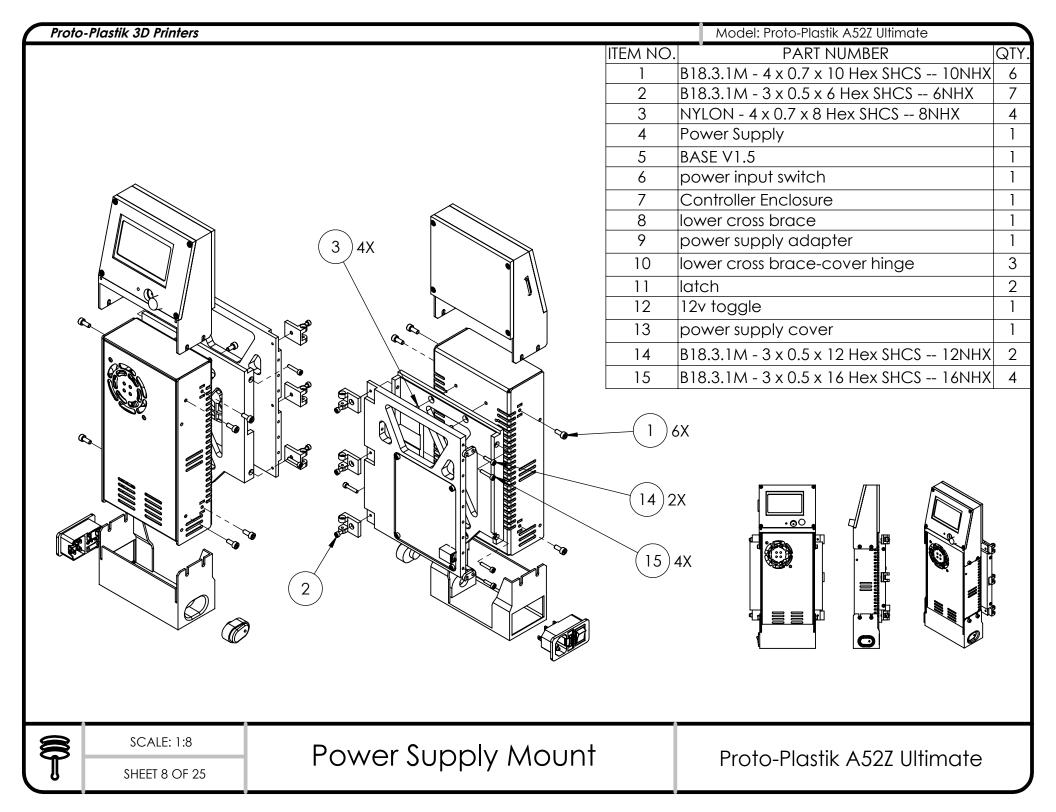


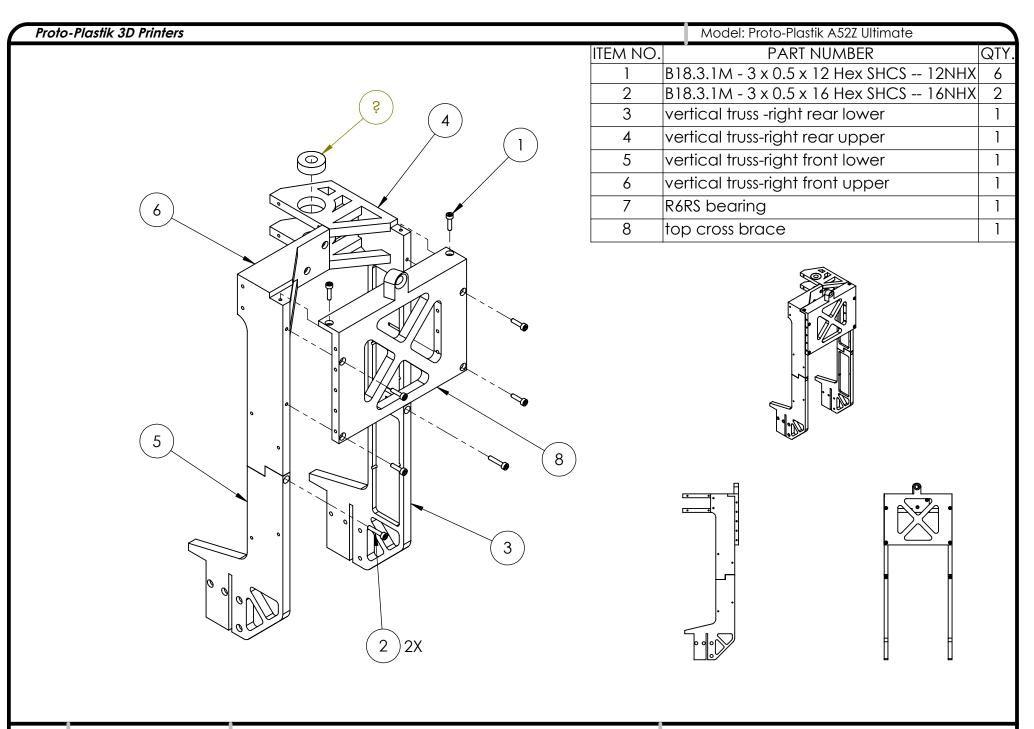


SCALE: 1:4

SHEET 7 OF 25

Electronics Base

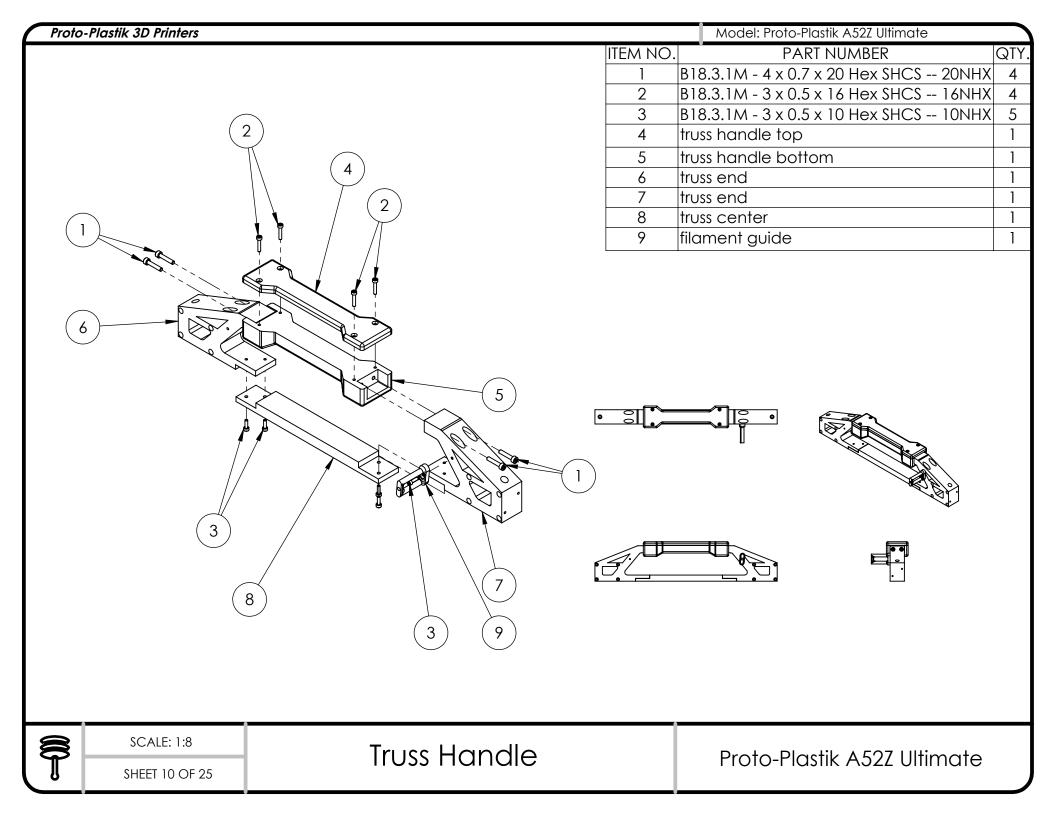


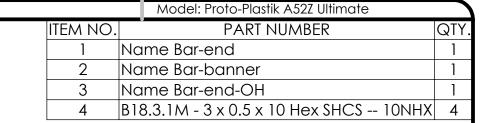


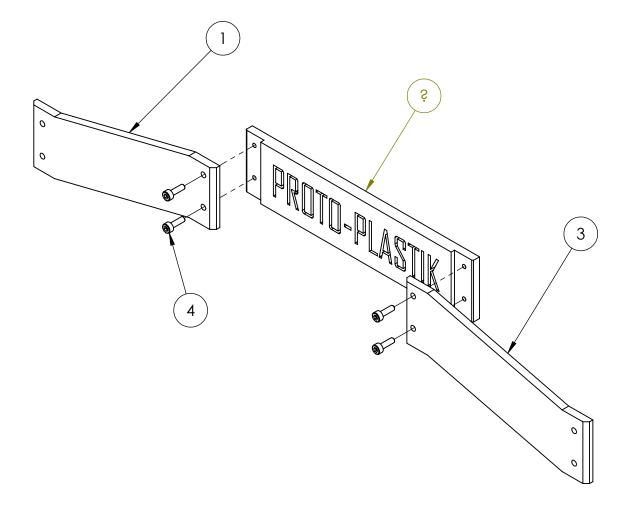


SHEET 9 OF 25

Vertical Truss Right





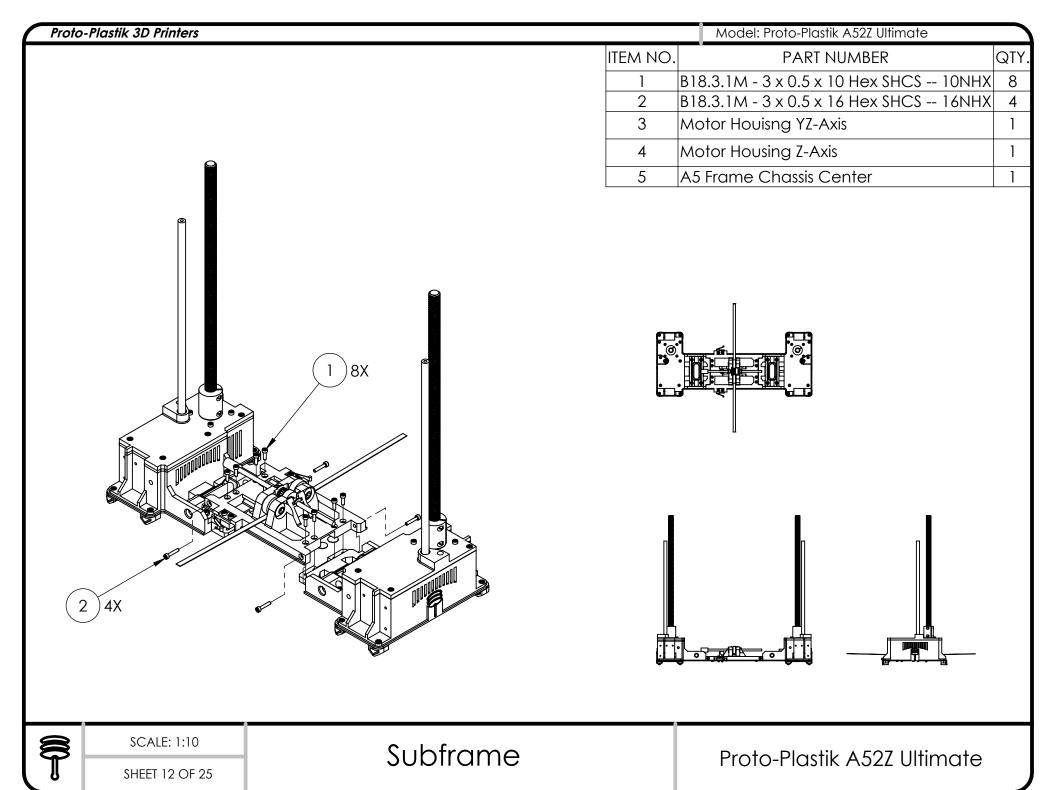


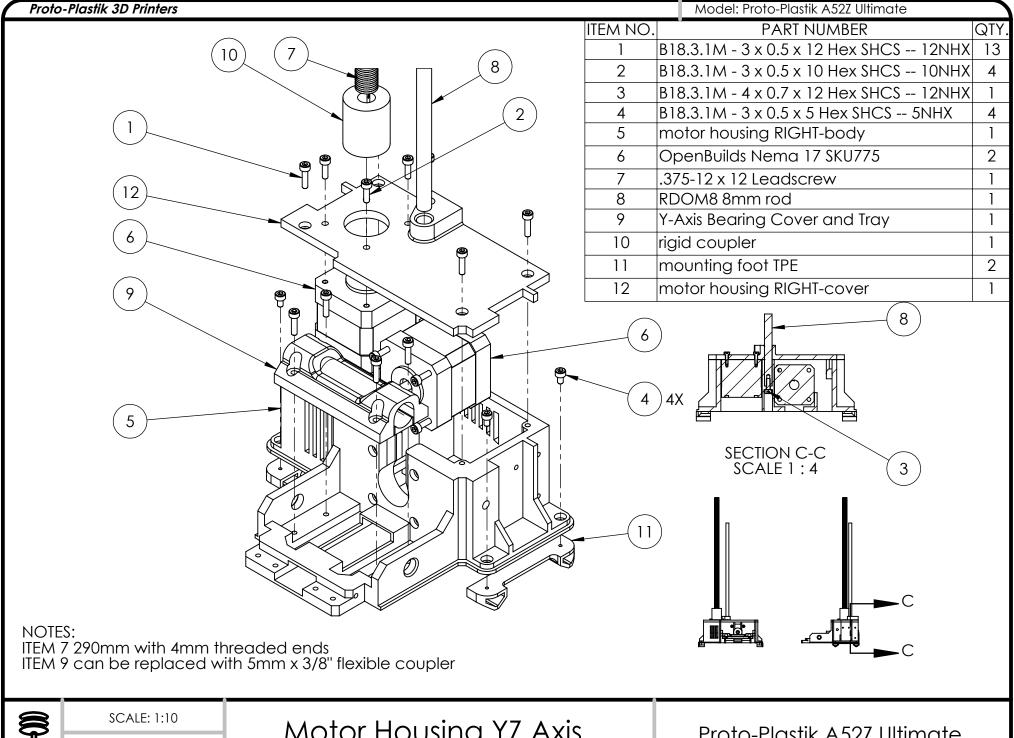


Proto-Plastik 3D Printers

SHEET 11 OF 25

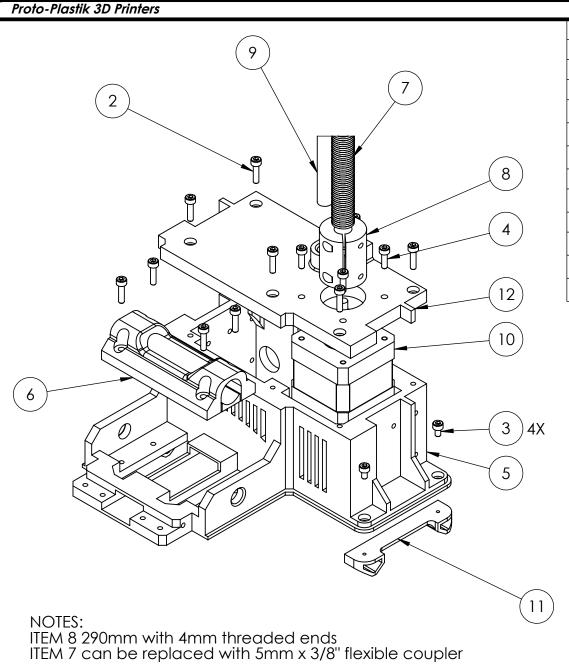
Name Bar



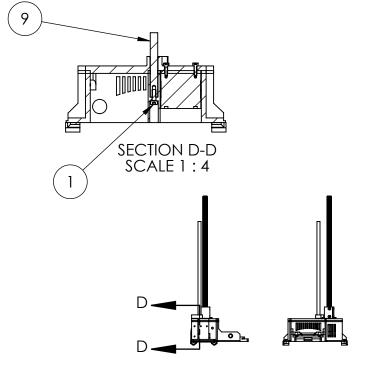


SHEET 13 OF 25

Motor Housing YZ Axis



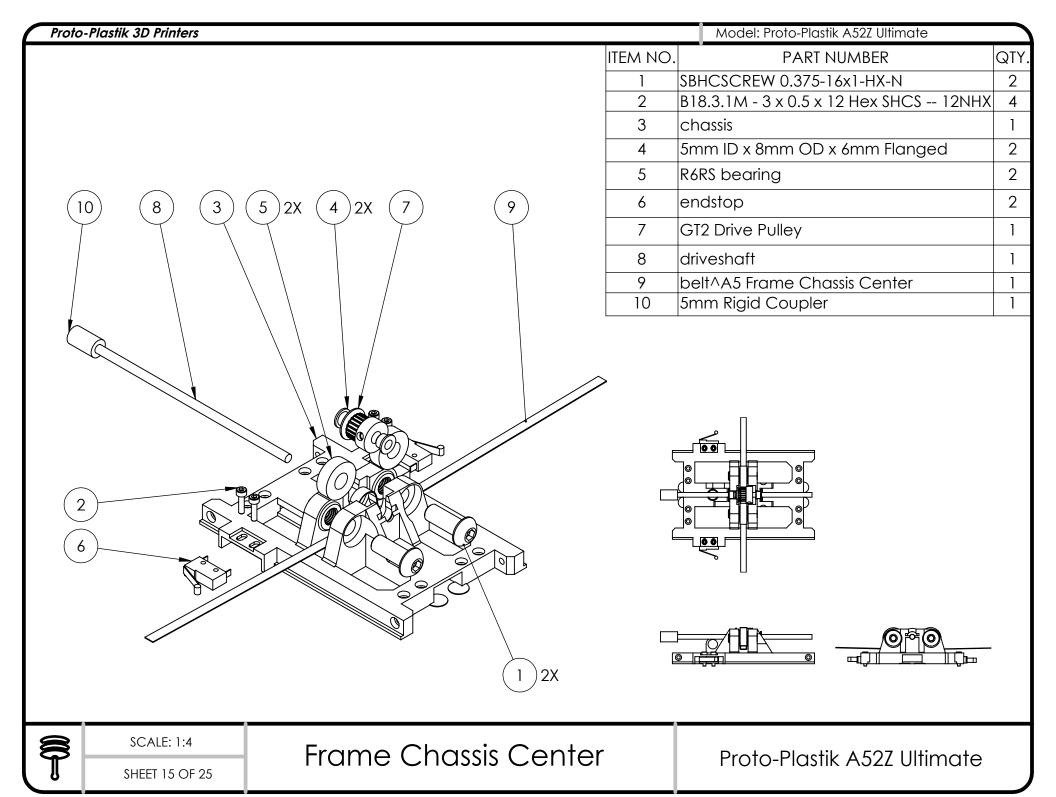
Model: Proto-Plastik A527 Ultimate				
	ITEM NO.	PART NUMBER	QTY	
	1	B18.3.1M - 4 x 0.7 x 12 Hex SHCS 12NHX	1	
	2	B18.3.1M - 3 x 0.5 x 12 Hex SHCS 12NHX	10	
	3	B18.3.1M - 3 x 0.5 x 5 Hex SHCS 5NHX	4	
	4	B18.3.1M - 3 x 0.5 x 10 Hex SHCS 10NHX	4	
	5	motor housing LEFT-Body	1	
	6	Y-Axis Bearing Cover and Tray	1	
	7	.375-12 x 12 Leadscrew	1	
	8	rigid coupler	1	
	9	RDOM8 8mm rod	1	
	10	OpenBuilds Nema 17 SKU775	1	
	11	mounting foot TPE	2	
	12	motor housing LEFT-Cover	1	

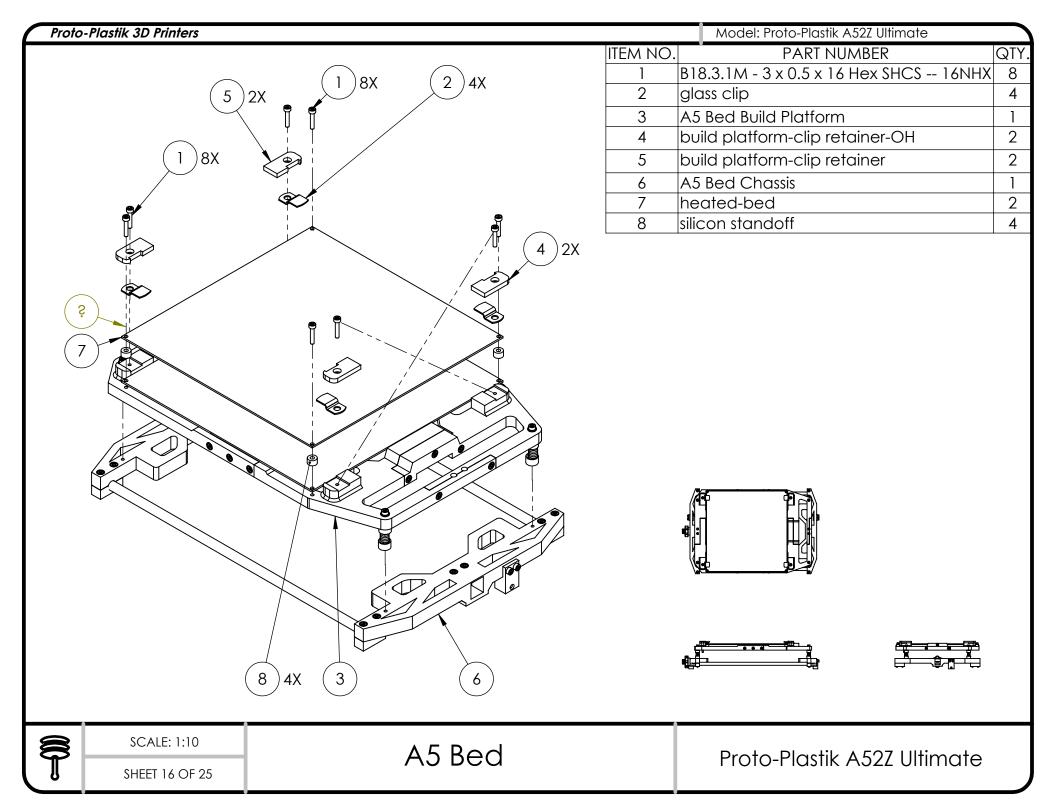


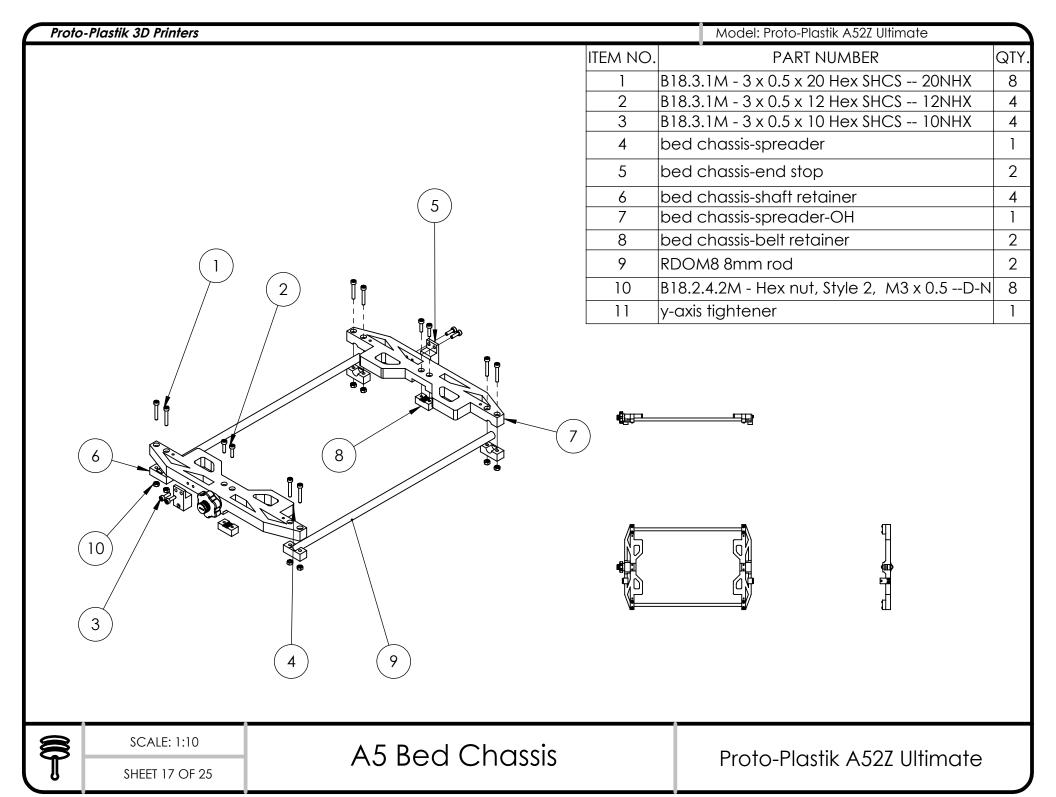


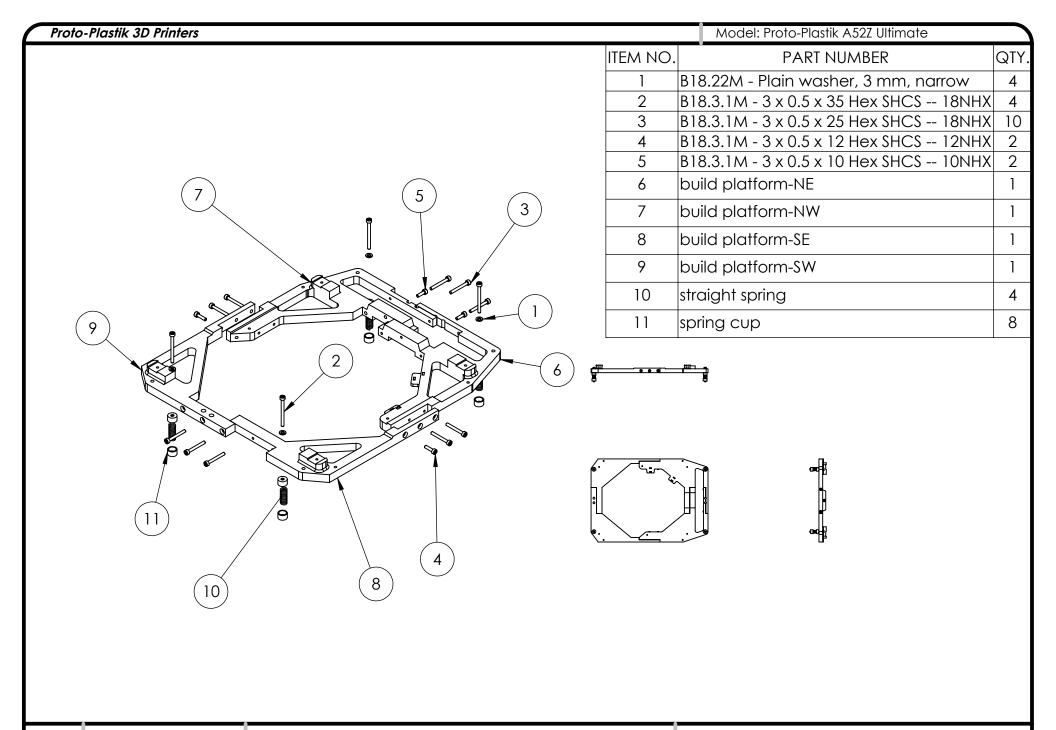
SHEET 14 OF 25

Motor Housing Z Axis









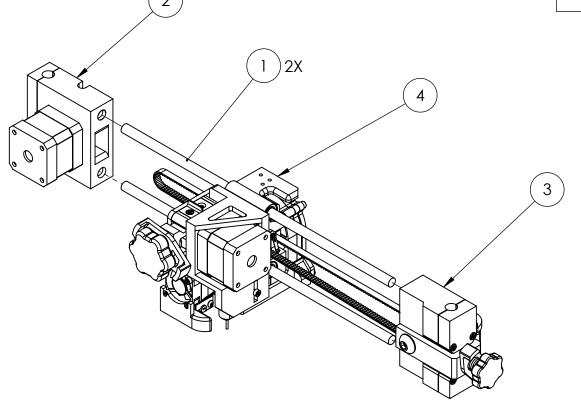


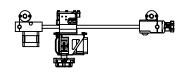
SHEET 18 OF 25

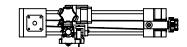
Proto-Plastik 3D Printers

Model: Proto-Plastik A52Z Ultimate

Wieden Freie Frasink / Kezz ein Franc				
ITEM NO.	PART NUMBER	QTY.		
1	RDOM8 8mm rod	2		
2	2Z X-Axis Bearing Holder - LEFT	1		
3	2Z X-Axis Bearing Holder - RIGHT	1		
4	Filament Drive	1		





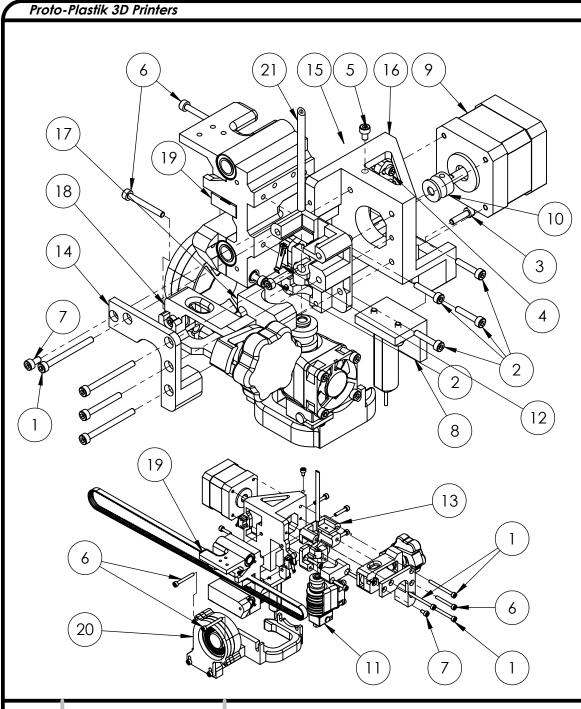




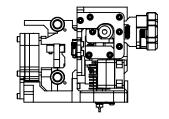
SCALE: 1:10

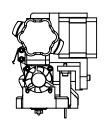
SHEET 19 OF 25

X-Axis Gantry



Model: Proto-Plastik A52Z Ultimate				
ITEM NO.	PART NUMBER	QTY.		
1	B18.3.1M - 3 x 0.5 x 35 Hex SHCS 18NHX	3		
2	B18.3.1M - 3 x 0.5 x 16 Hex SHCS 16NHX	7		
3	B18.3.1M - 3 x 0.5 x 12 Hex SHCS 12NHX	1		
4	B18.3.1M - 3 x 0.5 x 10 Hex SHCS 10NHX	4		
5	B18.3.1M - 3 x 0.5 x 5 Hex SHCS 5NHX	1		
6	B18.3.1M - 3 x 0.5 x 25 Hex SHCS 18NHX	3		
7	B18.3.1M - 3 x 0.5 x 6 Hex SHCS 6NHX	1		
8	Filament Drive Bed Leveling	1		
9	OpenBuilds Nema 17 SKU775	1		
10	MK7	1		
11	e3D Lite6	1		
12	Endstop	2		
13	hot end mount-body	1		
14	hot end cover	1		
15	filament guide access	1		
16	motor mount	1		
17	hot end retainer	1		
18	Filament Drive Tightener	1		
19	Filament Drive Bearing Holder	1		
20	Filament Drive Cooling Fan	1		
21	ptfe tube	1		

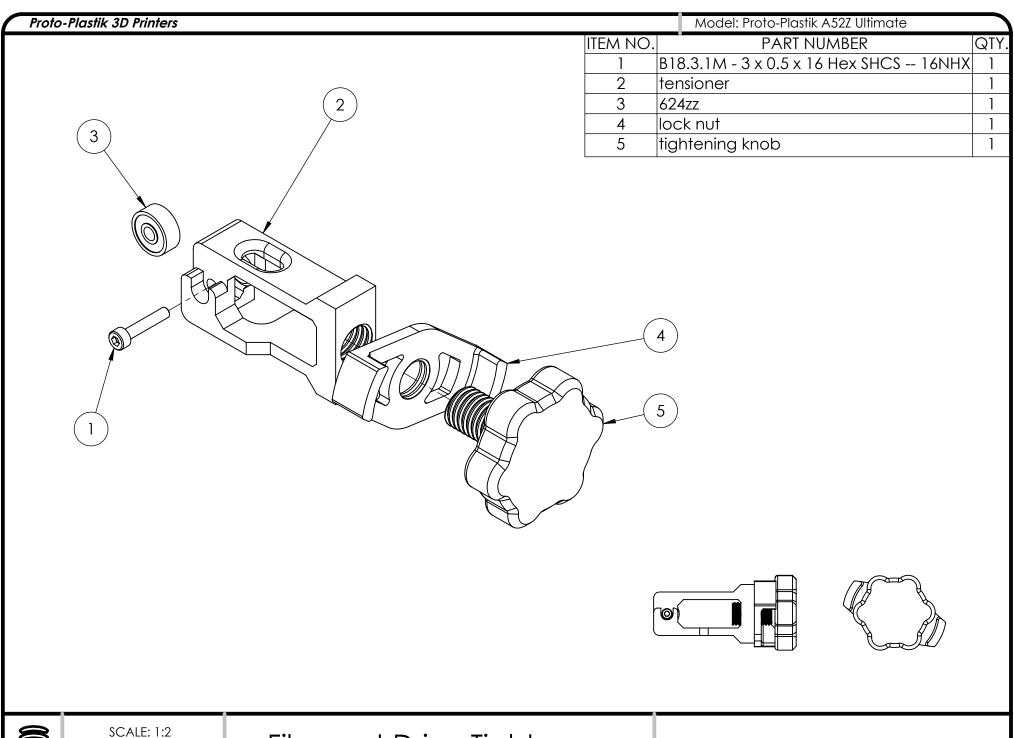






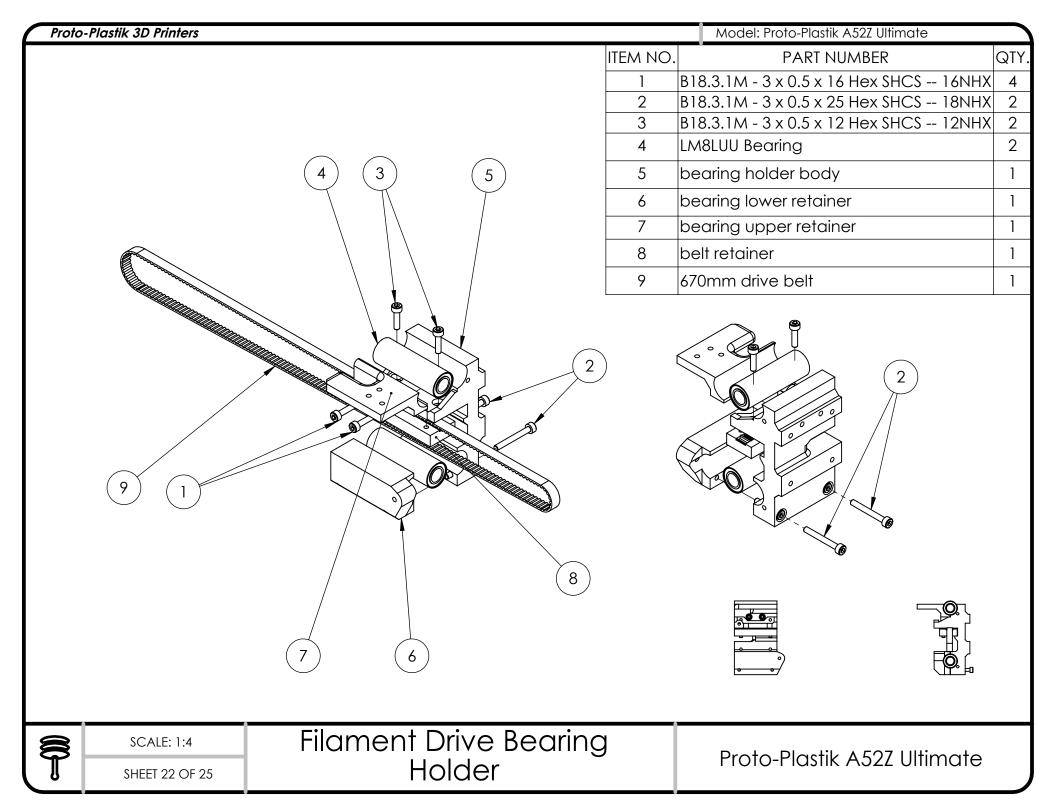
SHEET 20 OF 25

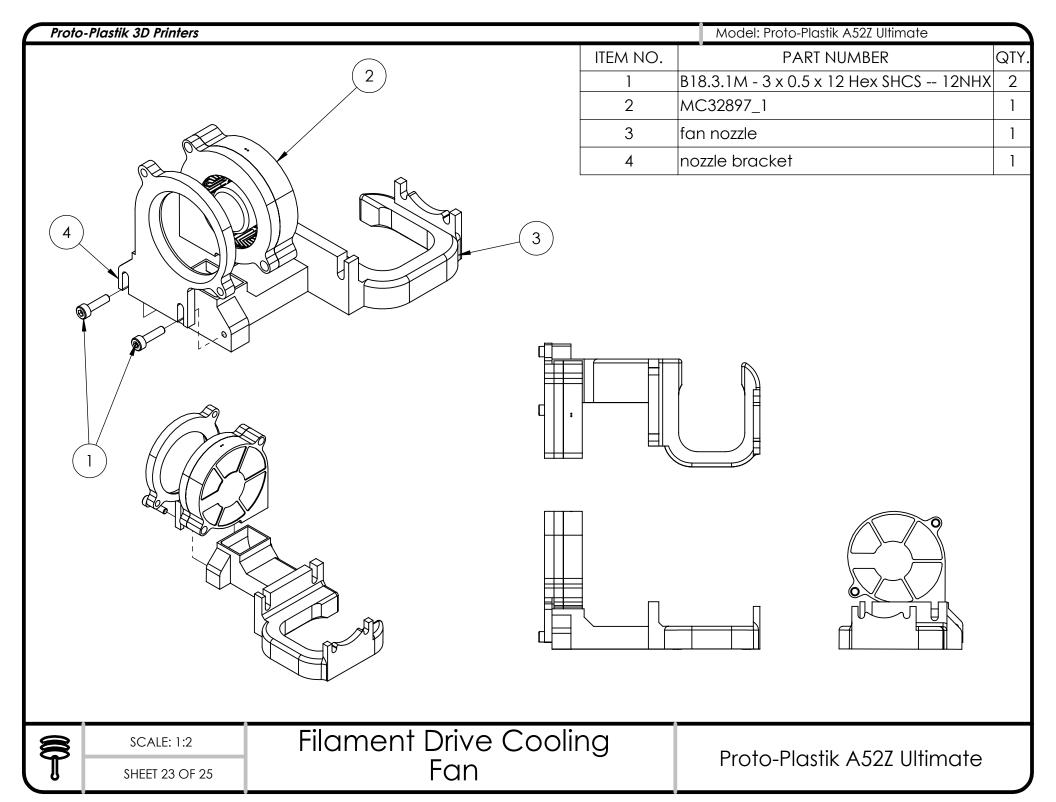
Filament Drive

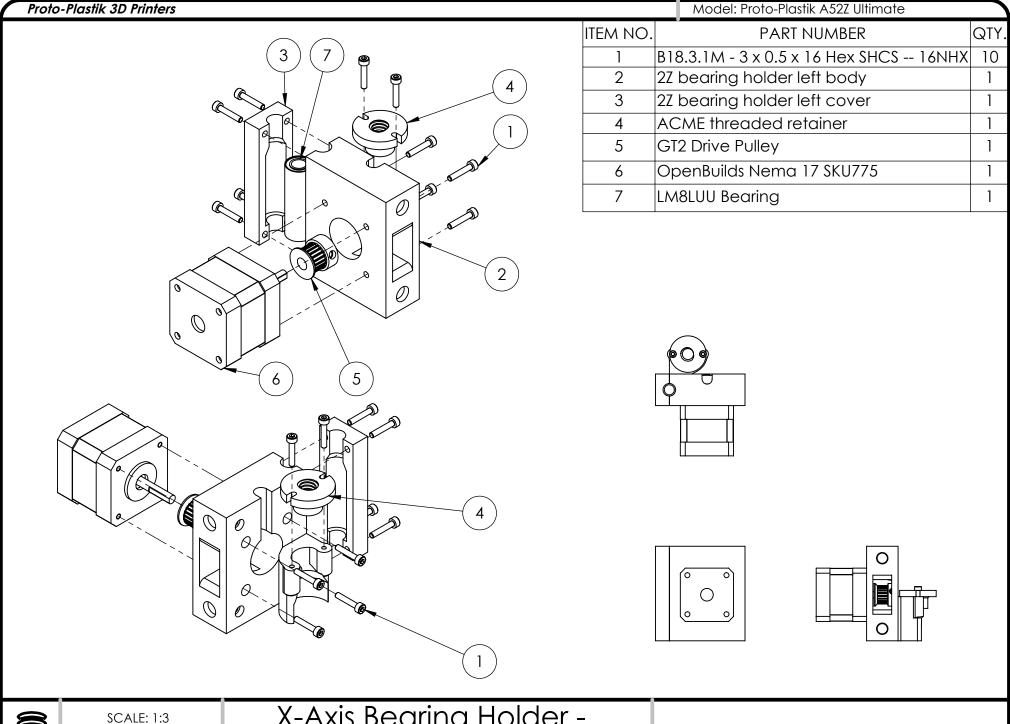


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Filament Drive Tightener

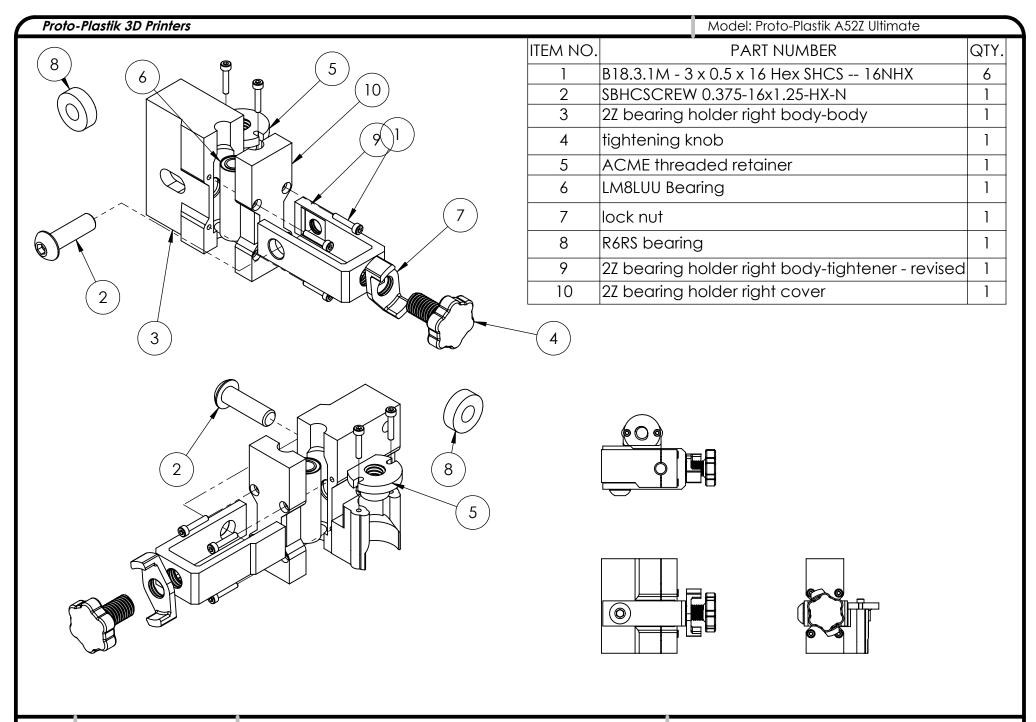






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X-Axis Bearing Holder -LEFT





SHEET 25 OF 25

X-Axis Bearing Holder -RIGHT