

xBot-Medium BOM

by Morten Nielsen aka BeTrue3D and Dintid

Bill Of Materials

All prices are approximate without shipping and will change over time.
The list does not contain all mechanical inert parts yet.

Custom Parts:

<https://betrue3d.dk/xbot-medium-look-at-materials-custom-bom/>

Electronics and Electrical Parts

<https://betrue3d.dk/xbot-medium-electronics-and-electrical-parts-bom-cont/>

Mechanical Parts

<https://betrue3d.dk/xbot-medium-mechanical-parts-bom-cont/>

Parts for Dibond frame

Name	Amount	Price #	Price total	Total
xBot Back	1	€ 45,00	€ 45,00	
xBot Bottom	1	€ 45,00	€ 45,00	
xBot Front	1	€ 45,00	€ 45,00	
xBot Left	1	€ 45,00	€ 45,00	
xBot Right	1	€ 45,00	€ 45,00	
xBot Top	1	€ 45,00	€ 45,00	
Total			€ 270,00	€ 270,00

Steel Rods

Name	Amount	Price #	Price Total	
X-Rods 8mm 367mm	2	€ 5,02	€ 10,04	
Y-Rods 8mm 358mm	2	€ 4,90	€ 9,80	
Z-Rods 8mm 339mm	2	€ 4,66	€ 9,32	
Z-Rods 12mm 338mm	2	€ 5,66	€ 11,32	
X-Rod 6mm 327mm	1	€ 4,50	€ 4,50	
Y-Rod 6mm 302mm	1	€ 4,18	€ 4,18	
Shipping DHL	1	€ 19,00	€ 19,00	
Total			€ 68,16	€ 68,16

Metal/steel Parts

Name	Amount	Price #	Price Total
Left Motorshield	1		€ 0,00
Right Motorshield	1		€ 0,00
Z-8mm Rod Plates*	2		€ 0,00
Z-12mm Rod Plates*	2		€ 0,00

* If you can't get steel brackets, you can use 4mm thick aluminium instead. See below

Aluminium Parts

Name	Amount	Price #	Price Total
5mm PEI Coated printbed 257x229x5mm*	1	€ 54,00	€ 54,00
Z-Liftplate	1	€ 45,00	€ 45,00

Total**€ 99,00****€ 99,00**

* You can use a heatbed from Ultimaker 2.

Electronics and electrics

Name	Amount	Price #	Price Total
Duet Wifi	1	€ 162,30	€ 162,30
Duex 2/5*	1	€ 116,60	€ 116,60
Thermocoupler	2	€ 31,00	€ 62,00
Daughterboard**			
PanelDue 4.3"***	1	€ 99,89	€ 99,89
BLTouch SMART	1	€ 39,90	€ 39,90
Heated Bed****	1	€ 54,00	€ 54,00
AC Silicone heater 500w	1	€ 40,50	€ 40,50
SSR DC-AC	1	€ 4,00	€ 4,00
Chamber Heater 200w Ceramic	1	€ 4,75	€ 4,75
PTC Heater			
24v 30mm fans for Chamber	3	€ 1,21	€ 3,63
Heater			
12v 30mm Fans for Printed	2	€ 2,08	€ 4,16
Objects			
Powersupply HPR-450-24 or similar	1	€ 60,00	€ 60,00
LED - RGB	1	€ 11,25	€ 11,25
Front USB Power 5v 3a	1	€ 1,12	€ 1,12
Rear USB Port	1	€ 1,79	€ 1,79
Total			€ 665,89

€ 665,89

* Price listed is for Duex5

** You can do with just 1 and use Thermistor instead.

*** Not really necessary. There is not room for 7".

**** 5mm Aluplate or use UM2 heated bed.

Various electrical mechanical parts

Name	Amount	Price #	Price Total
Manual on-off switch	1	€ 1,00	€ 1,00
Limit Switch - Long Arm	2	€ 1,12	€ 2,24
Limit Switch - Short Arm	3	€ 1,15	€ 3,45
AC Power plug on/off	1	€ 1,12	€ 1,12
GX12 4-pin	4	€ 1,00	€ 4,00
GX16 8-pin	1	€ 1,00	€ 1,00
GX16 5-pin	1	€ 1,00	€ 1,00
GX16 5-pin	1	€ 1,00	€ 1,00
Total			€ 14,81

€ 14,81**Motors**

Name	Amount	Price #	Price Total
Nema 17 w. 280 lead screw SKU: 17HS3001-280N	3	€ 26,70	€ 80,10
X and Y Motors SKU:17HM18-2004S	2	€ 11,90	€ 23,80

Extruder Motors *	1	€ 11,90	€ 11,90	
SKU:17HM18-2004S				
Extruder Motors *	2	€ 9,90	€ 19,80	
SKU:17HM08-1204S				
Total			€ 135,60	€ 135,60
* For 2.85/3mm filament				
** For 1,75mm filament				

Hotend and parts

Name	Amount	Price #	Price Total	
E3Dv6 Full 1,75mm Bowden	1	€ 63,60	€ 63,60	
Thermocoupler	1	€ 12,50	€ 12,50	
Plated 0.4mm Copper Nozzle	1	€ 11,75	€ 11,75	
Heater Cartridge 40w	1	€ 5,40	€ 5,40	
Total			€ 93,25	€ 93,25

Mechanical Parts other

Name	Amount	Price #	Price Total	
200GT-2 Belts	2	€ 0,33	€ 0,66	
20-GT2 Pulley 5mm Bore	2	€ 1,33	€ 2,66	
20-GT2 Pulley 8mm Bore	10	€ 0,66	€ 6,60	
610-GT2 Belts	4	€ 0,75	€ 2,98	
Sliders å bushing + spring	4	€ 2,15	€ 8,60	
Bag of Spacers 8mm Bore	1	€ 4,70	€ 4,70	
F688 Flanged Bearings	8	€ 0,42	€ 3,32	
Anti Backlash Nut	3	€ 2,49	€ 7,46	
LMK12LUU Flanged Bearings	2	€ 2,32	€ 4,64	
LM8UU Flanged Bearings	2	€ 2,07	€ 4,14	
Fingerscrews sets of fingerscrew, spring, spacer	3	€ 1,13	€ 3,39	
LM6LUU	2	€ 1,58	€ 3,16	
Total			€ 52,31	€ 52,31

Screws, Nuts Etc

Name	Amount	Price #	Price Total
m3 8mm Button Head	10		
m3 10mm Button Head	56		
m3 10mm Socket Head	4		
m3 12mm Button Head	8		
m3 16mm Button Head	47		
m3 20mm Button Head	5		
m3 30mm Button Head	8		
m3 20mm Flat Head	3		
m3 Spacer	8		
m3 Square Nuts	45		
m4 10mm Button Head	4		
m4 12mm Button Head	8		
m4 20mm Button Head	6		

Wires		
Connectors		
Heatshrink		
Wirewrap		
Total Approximate	€ 40,00	€ 40,00
Totalling:		€ 1.439,02