## 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 total price is the absolute highest possible price.

You can easily shave off €500 by using different heated bed, duex2 instead of duex5 etc.

#### **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 Pri	ce#	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 #	<b>Price Total</b>
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 339mm	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

# **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

<sup>\*</sup> If you can't get steel brackets, you can use 4mm thick aluminium instead. See below

## **Aluminium Parts**

Name	Amount	Price #	<b>Price Total</b>
5mm PEI Coated printbed	1	. € 54,00	€ 54,00
257x229x5mm*			

Z-Liftplate 1 € 45,00 € 45,00 Total € 99,00

€ 99,00

## **Electronics and electrics**

Name	Amount	Price #	<b>Price Total</b>
Duet Wifi	1	€ 162,30	€ 162,30
Duex 2/5*	1	€ 116,60	€ 116,60
Thermocoupler	1	€ 31,00	€ 31,00
Daughterboard**			
PT100 Daughterboard	1	€ 31,00	€ 31,00
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	1	€ 60,00	€ 60,00
similar			
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

<sup>\*</sup> Price listed is for Duex5

## Various electrical mechanical parts

Name	Amount	Price #	<b>Price Total</b>
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
GX12-2-pin	1	€ 1,00	€ 1,00
GX12 4-pin	6	€ 1,00	€ 6,00
GX12-5-pin	1	€ 1,00	€ 1,00
GX16 8-pin	1	€ 1,00	€ 1,00
GX16 6-pin	1	€ 1,00	€ 1,00
GX16 5-pin	1	€ 1,00	€ 1,00
Total			€ 18,81

## **Motors**

<sup>\*</sup> You can use a heatbed from Ultimaker 2.

<sup>\*\*</sup> You can do with just 1 and use Thermistor instead or even PT1000 (with 3x zeros) without daugh

<sup>\*\*\*</sup> Not really necesary. There is not room for 7".

<sup>\*\*\*\* 5</sup>mm Aluplate or use UM2 heated bed.

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

# **Hotend and parts**

Name	Amount	Price #	<b>Price Total</b>
E3Dv6 Full 1,75mm Bowden	1	£ 63,60	€ 63,60
PT100 sensor	1	£ 12,50	) <b>€</b> 12,50
Plated 0.4mm Copper Nozzle	1	€ 11,75	€ 11,75
Heater Cartridge 40w	1	€ 5,40	€ 5,40
Total			€ 93,25

## **Mechanical Parts other**

Name	Amount	Price #	<b>Price Total</b>
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 Backblash 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	3	€ 1,13	€ 3,39
fingerscrew, spring, spacer			
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	64	
m3 10mm Socket Head	4	
m3 12mm Button Head	21	
m3 16mm Button Head	61	
m3 20mm Button Head	6	
m3 30mm Button Head	8	
m3 20mm Flat Head	3	
(countersunk)		
m3 Spacer	8	

<sup>\*\*</sup> For 1,75mm filament

m3 Square Nuts	45	
m3 Nuts	4	
m4 10mm Button Head	4	
m4 12mm Button Head	8	
m4 20mm Button Head	6	
m4 Spacer	8	
Wires		
Connectors		
Heatshrink		
Wirewrap		
Total Approximate		€ 40,00

Totalling: € 1.443,02

€ 40,00

