

# 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 Inert Parts

*Working on it*

## 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	
<b>Total</b>			<b>€ 270,00</b>	<b>€ 270,00</b>

## 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	
<b>Total</b>			<b>€ 68,16</b>	<b>€ 68,16</b>

## 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	1	€ 4,75	€ 4,75
Ceramic 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	3	€ 26,70	€ 80,10
SKU: 17HS3001-280N			
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				
<b>Total</b>			<b>€ 135,60</b>	<b>€ 135,60</b>
* 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	
<b>Total</b>			<b>€ 93,25</b>	<b>€ 93,25</b>
<b>Total</b>				<b>€ 1.346,71</b>