List of parts for IndyMill by Nikodem Bartnik

Electronics										
Part name	Quantity	BangGood	Aliexpress	Amazon	Comment					
Nema23 Stepper motor	4	https://bit.ly/2Y0Bnrl	https://bit.ly/3iBTGvk	https://amzn.to/3DeE641						
IndyShield	1	-	-	-	You can buy it here: https://indystry.cc/store/					
TB6600 stepper drivers	4	https://bit.ly/33VQFSs	https://bit.ly/2PSt2IG	https://amzn.to/3gB2Ycu						
Arduino UNO	1	https://bit.ly/3gVqtLs	https://bit.ly/2FeDxxo	https://amzn.to/3zo98Uw						
Power supply	1	https://bit.ly/30RaqZA	https://bit.ly/3kJOtDu	https://amzn.to/2WkwLPR						
AC Socket	1	https://bit.ly/30Tk2mr	https://bit.ly/30REsfK	https://amzn.to/3mveo5k						
Cables	-	https://bit.ly/2PQ2qlc	https://bit.ly/3kH9TBh	-						
4 pin connectors	4	https://bit.ly/30UUpSi	https://bit.ly/3am7dUU	https://amzn.to/3zm0OVw	I used that to connect stepper motors through electronics case, use other connectors if you want					
500W Spindle	1	https://bit.ly/3gVpcnx	https://bit.ly/3iCR4NJ	https://amzn.to/3kqVz0z	Choose a spindle that will work best for you. I recommend 500W spindle for beginners, if you are					
1.5kW Spindle	1	https://bit.ly/3kGN4O7	https://bit.ly/2PMiLHE	https://amzn.to/3mzGw7i	already experienced or not afraid to go BIG go with 1.5kW spindle (that's some serious power!). For					
Inverter for 1.5kW Spindle	1	https://bit.ly/2E0aHQO	IIII.ps.//bit.iy/ZFWIILTIL	ittps://amzn.to/smzGw/1	1.5kW spindle you will also need an inverter.					
Mechanics Mechanics										
Part name	Quantity	BangGood	Aliexpress	Amazon	Comment					
Aluminium profile 20x40 mm 600 mm	2	https://bit.ly/3iGGfdM	https://bit.ly/30VoyRv	https://amzn.to/3B9BG4G	You will most likely need to buy longer pieces of aluminium profiles and cut them to a proper length,					
Aluminium profile 20x40 mm 666 mm	2	https://bit.ly/2XYn3QE	https://bit.ly/3kC0ZoJ	https://amzn.to/3B9BG4G	if you want to build, bigger machine you just have to change lengths of those items, everything else					
Aluminium profile 20x80 mm 600 mm	2	https://bit.ly/2Y03gQL	https://bit.ly/2PRw7Cs	https://amzn.to/3B9BthU	stay the same					
Trapezoidal lead screw 220 mm	1	https://bit.ly/2PS5r4C	https://bit.ly/31Nef0Z	https://amzn.to/3zpXgS4	Buy longer piece of trapezoidal lead screw and cut to 220mm					
Ball Screw SFU1605 650 mm	1	https://bit.ly/3fR7yQJ	https://bit.ly/33X9uET	https://amzn.to/3mBfTyM						
Ball Screw SFU1605 600 mm	2	https://bit.ly/2PQIXkg	https://bit.ly/33X9uET	https://amzn.to/3yeHyrH						
Linear Rail MGN12 650 mm	2	https://bit.ly/2DSsF85	https://bit.ly/2XY4ADA	https://amzn.to/2UQD0dp	X axis					
Linear Rail MGN12 600 mm	2	https://bit.ly/2DSsF85	https://bit.ly/2XY4ADA	https://amzn.to/3yjJ7o4	Y axis					
Linear Rail MGN12 200 mm	2	https://bit.ly/2DSsF85	https://bit.ly/3fWvn9N	https://amzn.to/3zmz3Mj	Z axis					
Linear Rail Block MGN12H	12	https://bit.ly/3gVz94w	https://bit.ly/3gVSOBm	https://amzn.to/3zmosBh	If you buy each rail with one block you need just 6 additional blocks (the total of 12)					
6000RS bearing	3	https://bit.ly/30RjJsl	https://bit.ly/30Uv0by	https://amzn.to/3BtqgsX						
6201RS bearing	6	https://bit.ly/3h7TWSF	https://bit.ly/2E44Tpj	https://amzn.to/2Y0GRWv						
608RS bearing	1	https://bit.ly/33Wh6Hz	https://bit.ly/2XYrk6t	https://amzn.to/3kvRVCz						
8 to 10mm coupler	3	https://bit.ly/30SUCoV	https://bit.ly/3gWQAS3	https://amzn.to/3gAvYB5	Make sure that the diameter of the coupler will work with your motor					
Closed GT2 Belt 200mm	1	https://bit.ly/3aoq69M	https://bit.ly/2Yfwmfl	https://amzn.to/3Dgle3z						
GT2 8 mm Pulleys	2	https://bit.ly/31Ms1RH	https://bit.ly/31KuTym	https://amzn.to/3BfyXXv						
Trapezoidal lead screw lock collar	3	https://bit.ly/2Fn9y6E	https://bit.ly/3gVOySf	https://amzn.to/3koSoX7	That locks the Z axis lead screw in place					
Corner connectors	2	https://bit.ly/3fVVIVc	https://bit.ly/3kGldfO	https://amzn.to/3mEnug2						
M3x16 mm screws	14	https://bit.ly/31QrePG	https://bit.ly/3fUVyh1	https://amzn.to/3DhWYyZ						
M3x10 mm screws	60	https://bit.ly/31QrePG	https://bit.ly/2PSy3e0	https://amzn.to/3Bf5rRQ						
M3x8 mm screws	26	https://bit.ly/31QrePG	https://bit.ly/30TJGHN	https://amzn.to/3krYgyL						
M3 Nut	4	https://bit.ly/3DgTkpf	https://bit.ly/3B9NtzS	https://amzn.to/3mCoMlu						
M3 T nut	22	https://bit.ly/2E5v3rN	https://bit.ly/30WttBP	https://amzn.to/3Dkl6jr						
M5x20 mm screws	8	https://bit.ly/31PSNZh	https://bit.ly/2CnrOvo	https://amzn.to/3mxdEg0						
M5x16 mm screws	22	https://bit.ly/31PSNZh	https://bit.ly/2CnrOvo	https://amzn.to/3mBVaLs	You can also buy a kit of screws at https://indystry.cc/store/					
M5x12 mm screws	28	https://bit.ly/31PSNZh	https://bit.ly/2CnrOvo	https://amzn.to/3mx2RT7						
M5x10 mm screws	4	https://bit.ly/31PSNZh	https://bit.ly/2CnrOvo	https://amzn.to/3jluM6y						
M5 T nut	20	https://bit.ly/2FnQDIX	https://bit.ly/30WttBP	https://amzn.to/3mBuNW2						
M5 nut	24	https://bit.ly/31Sl3KX	https://bit.ly/2PSv710	https://amzn.to/3sN7hGB						
M6x12 mm screws	20	https://bit.ly/3fWm2yL	https://bit.ly/2E1ev4t	https://amzn.to/3yoLbLr						
M12x1 fine thread nut	3	-	https://bit.ly/2FhzHDH	https://amzn.to/3mAdhRL						

Steel Plates							
Part name	Quantity	Thickness					
500W Spindle Plate.dxf	1	6 mm					
Motor Support Left.dxf	1	6 mm					
Motor Support Right.dxf	1	6 mm					
Screw Support Left.dxf	1	6 mm					
Screw Support Right.dxf	1	6 mm	You can find all DXF files at indvstrv.cc				
X Axis.dxf	1	6 mm					
Y Axis Left.dxf	1	6 mm	And you can also buy a kit of plates at https://indystry.cc/store/				
Y Axis Right.dxf	1	6 mm					
Z Axis Motor Support.dxf	1	6 mm					
Z Axis Rail Support1.dxf	1	8 mm					
Z Axis Rail Support2.dxf	1	8 mm					
			3D printed				

Quantity Part name 6000 holder.stl 3 Ball screw block X axis flap.stl 1 Ball screw block X axis.stl 1 Ball screw block Y axis flap.stl 2 Ball screw block Y axis.stl 2 X axis nut holder.stl 1 Y axis nut holder left.stl 1 Y axis nut holder right.stl 1 Z axis bearing holder.stl 1 Z axis nut holder.stl

You can find all STL files at indystry.cc

And you can also buy a kit of 3D printed parts at https://indystry.cc/store/

Tools								
Part name	BangGood	Aliexpress	Amazon	Comment				
3D printer	https://bit.ly/2PMaOSO	https://bit.ly/3gTA19S	https://amzn.to/3gAkfm8					
Тар	https://bit.ly/3iAsTzB	https://bit.ly/2E5QR6D	https://amzn.to/2Y1q0CT					
Cordless drill	https://bit.ly/2DYbVMs	https://bit.ly/2PPQ8t1	https://amzn.to/3DIBwZV					
Angle grinder	https://bit.ly/2XW7Dw4	https://bit.ly/3iwmXHQ	https://amzn.to/3jlq4W4					
Crimper tool	https://bit.ly/3fWr7HI	https://bit.ly/310tKWC	https://amzn.to/3gCxenq					
Soldering iron	https://bit.ly/3gZFxYs	https://bit.ly/2DOij9e	https://amzn.to/3gCmDIV					
Milling bit for wood	https://bit.ly/3g2AWDL	https://bit.ly/3aktoLe	https://amzn.to/3gAmFkw					
milling bit for aluminium/acrylic	https://bit.ly/310k1zA	https://bit.ly/33WKTQx	https://amzn.to/38dbSs0	Milling bits that I often use				
6mm single flute	https://bit.ly/3alCHup	https://bit.ly/33WKTQx	https://amzn.to/3gHwDAF					