
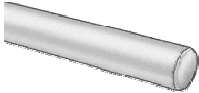









CNC FAB-LATHE

BILL OF MATERIALS

| MACHINE PART | PIECE | DESCRIPTION | SIZE | CODE | PRICE | UNITS | SUPPLIER |
|--------------|--|---|------------------------|-----------|-------|-------|--|
| CASE | 01 Plywood board | We use plywood board for all the pieces of the case. Its a very stable material and it have a long lifecycle. | 1250 x 2500 x 15 mm. | | | 1 |  http://www.gabarro.com/es/productos/tablero_con_trachapado_abedul_bs_bb_wisa/pid:1067/cid:1505 |
| | | | | | | | |
| MECHANICS | 02 Metric Steel Drive Shaft | Made of 1566 steel, these shafts are stronger than stainless steel shafts but are less corrosion resistant. They are unhardened for easier machining. Rockwell hardness is C25. Ends are beveled. | 10mm OD, 400mm Length | 1482K12 | 7.36 | 2 |  http://www.mcmaster.com |
| | 03 Metric Steel Drive Shaft | Made of 1566 steel, these shafts are stronger than stainless steel shafts but are less corrosion resistant. They are unhardened for easier machining. Rockwell hardness is C25. Ends are beveled. | 10mm OD, 200mm Length | 1482K11 | 6.59 | 2 | http://www.mcmaster.com |
| | 04 Metric Standard-Travel Precision Threaded Rods and Nuts | these rods and nuts (also known as trapezoidal thread form) offer the advantages of precision Acme threaded rods and nuts but in metric sizes. All are standard travel (single start)and have right-hand threads. Speed ratio is 1:1. | 400mm / 200mm / 100 mm | | | 3 |  http://www.mcmaster.com |
| | 05 8-32 Tee nuts | 100 pack | | 90975A012 | 6,74 | 1 |  http://www.mcmaster.com |
| | 06 Flat pan head screws | 100 pack | | 90283A112 | 1,56 | 1 |  http://www.mcmaster.com |
| | 07 Bronze Flanged Sleeve Bearings | Alloy 932—Also known as SAE 660, this nonporous, cast material makes hard, strong, and abrasion-resistant bearings with excellent resistance to shock loads (suddenly applied loads) and wear. | Inner diameter 10 mm. | | | 4 |  http://www.mcmaster.com |
| | 08 Cast Bronze Sleeve Bearings | Alloy 932—Also known as SAE 660, this nonporous, cast material makes hard, strong, and abrasion-resistant bearings with excellent resistance to shock loads (suddenly applied loads) and wear. | Inner diameter 10 mm. | | | 8 |  http://www.mcmaster.com |
| | | | | | | | |

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|--|---|-----------------------|--------|-------|---|--|
| 09 Double-shielded bearings | Double-shielded bearings have steel shields that block out dirt. They come greased. | Inner diameter 10 mm. | | 2 |  | http://www.mcmaster.com |
| 10 Proxxon Independent 4 Jaw Chuck for DB250 Lathe | With individually adjustable jaws. Used to clamp asymmetrical pieces such as rectangles. The reversible jaws clamp from 1.5 - 35mm (inside) and from 14 - 67mm (outside). The DB250 headstock spindle of thread M16 x 1 screws directly into the chuck. | | 702056 | 28.70 | 1 |  http://www.axminster.co.uk/proxxon-proxxon-independent-4-jaw-chuck-for-db250-lathe-prod725282/ |
| 11 Revolving center | The most familiar of the live revolving centres and the one that most of us use. This 60° live revolving centre is made from top quality materials, incorporates two 'sealed for life' dust proofed bearings and will cover 90% of all turning applications. | | 340202 | 17.99 | 1 |  http://www.axminster.co.uk/axminster-axminster-standard-60-degree-live-revolving-centre-prod21297/ |
| MECHATRONICS | | | | | | |
| 12 DC Motor | They can be used in either clockwise or counterclockwise rotation; instructions are included. You can also use a speed controller (not included) to change the motor speed. Torque remains constant over the entire speed range. Housing is aluminum and steel. | | | | 1 |  http://www.mcmaster.com |
| 13 Stepping Motor | STEP MOTORS , 12VDC , 600MA | | 162027 | 35.95 | 2 |  http://www.jameco.com/webapp/wcs/stores/servlet/Product_10001_10001_162027_-1 |
| 14 Power supply | | | | | 1 | |

ELECTRONICS

<http://www.mcmaster.com/>

<http://www.jameco.com/>

<http://www.gabarro.com/>

<http://www.axminster.co.uk/>

[http://opensourceecology.org/wiki/Lathe_Build#Bill of Materials](http://opensourceecology.org/wiki/Lathe_Build#Bill_of_Materials)