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| **Piezas Necesarias** | | | |
| Imagen | Pieza | UDS | Tiendas |
| Motor-pap.png | Motores paso a paso Nema 17 | 3 | ALIEXPRESS: 6,93 € la unidad. [Pulse Aquí.](https://es.aliexpress.com/store/product/1pcs-4-lead-Nema17-Stepper-Motor-42-motor-Nema-17-motor-42BYGH-1-7A-17HS4401-3D/214974_32814466700.html?spm=a219c.search0204.3.22.31214417lFdJ4I&s=p&ws_ab_test=searchweb0_0%2Csearchweb201602_1_10152_10151_10065_10344) |
| Correas-T2 5.png | Correas T2.5 o GT2 abiertas, 5mm de ancho. Longitud aproximada: 1 metro cada una. |  | ALIEXPRESS: 2,64 € la unidad. [Pulse Aquí.](https://es.aliexpress.com/store/product/1Meter-T2-5-Rubber-Open-Ended-Timing-Belts-Width-6mm-for-3D-Printer/1196745_32812171258.html?spm=a219c.search0204.3.9.79062807Ldo4Bn&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_10342_10547) |
| Polea T2 5.png | Poleas T2.5 o GT2 metálicas o de SLS |  | ALIEXPRESS: 9.05€ el pack de 3  [Pulse aquí.](https://es.aliexpress.com/store/product/30pcs-20teeth-T2-5-Timing-Pulley-Bore-5mm-fit-for-T2-5-timing-belts-width-10mm/702327_1774513067.html?spm=a219c.search0204.3.22.790a6aa9cH6awn&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_1) |
| DSC05575.JPG | Rodamientos Lineales LM8UU |  | ALIEXPRESS: 5.02€ el pack de 12  [Pulse aquí.](https://es.aliexpress.com/store/product/Free-Shipping-12pcs-lot-LM8UU-8mm-Linear-Bushing-CNC-Linear-Bearings/2960108_32806034582.html?spm=a219c.search0204.3.1.539024208CidJZ&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_10342_1054) |
| Acoplamiento flexible de aluminio de 5 a 5 mm.png | Acoplamiento flexible de aluminio de 5 a 5 mm |  | ALIEXPRESS: 1,16 € la unidad  [Pulse aquí.](https://es.aliexpress.com/store/product/3D-printer-Stepper-Motor-5x5x25mm-Flexible-Coupling-Coupler-Shaft-Couplings-5-mm-5mm-25-mm-Free/2341264_32707898833.html?spm=a219c.search0204.3.8.727d2ed8wobJSO&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_1) |

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| **Tornillos / Tuercas / Rodamientos** | | | |
| Imagen | Pieza | UDS | Tiendas |
| M4x30 Indented Hex Tornillos SEMS Cabeza Pernos Métricas de Acero Inoxidable(China) | Tornillo M4x30 |  | ALIEXPRESS: 29,63 € pack de 300. [Pulse Aquí.](https://es.aliexpress.com/store/product/SEMS-Screws-M4x30-Hex-Indented-Head-Bolts-Metric-Stainless-Steel/814838_32604049014.html?spm=a219c.search0204.3.2.760a1b1dXcEmte&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_10342_10547_103) |
| 100 Unidades M4 * 20*1 Espesor DIN 9021 A2-70 Arandela Plana de Acero Inoxidable SS304(China) | arandela M4 DIN-9021 |  | ALIEXPRESS: 3,13 € pack de 100. [Pulse Aquí.](https://es.aliexpress.com/store/product/100-Pieces-M4-12-1-Thick-DIN-9021-Flat-Washer-A2-70-Stainless-Steel-SS304/1502587_32414423449.html?spm=a219c.search0204.3.8.2b5641d57xaX65&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_10342) |
| 100 Unidades M6 * 18*1.5 Espesor DIN 9021 A2-70 Arandela Plana de Acero Inoxidable SS304(China) | arandela M6 DIN-9021 |  | ALIEXPRESS: 3,74 € pack de 100. [Pulse Aquí.](https://es.aliexpress.com/store/product/100-Pieces-M6-18-1-5-Thick-DIN-9021-Flat-Washer-A2-70-Stainless-Steel-SS304/1502587_32414447972.html?spm=a219c.search0204.3.1.24547b66Zm7KjS&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_103) |
| Comercio al por mayor 10 unids DIN 125 de Acero Inoxidable Plana Máquina Lavadora Kit De Conjunto M3 M4 M5 M6 M8 M10 M12 Arandelas Durable de Alta calidad(China) | arandelas M4 DIN-125 |  | ALIEXPRESS: 1,26 € pack de 10. [Pulse Aquí.](https://es.aliexpress.com/store/product/Titanium-Waher-M5-Plain-Washer-Polished/314699_32514315334.html?spm=a219c.search0204.3.8.60776711eeEEKw&ws_ab_test=searchweb0_0,searchweb201602_1_10152_10151_10065_10344_10068_10342_10547_10343_10340_10548_10341_1008) |
| 10 unids 4*13*5mm Rodamiento Rígido de Bolas 624ZZ Rodamiento de Acero 624RS Sellado Doble Blindado A Prueba de Polvo para Instrumento Eléctrico(China) | rodamiento 624ZZ |  | ALIEXPRESS: 2,53 € pack de 10. [Pulse Aquí.](https://es.aliexpress.com/store/product/10pcs-4-13-5mm-Deep-Groove-Ball-Bearing-624ZZ-624RS-Bearing-Steel-Sealed-Double-Shielded-Dustproof/2342055_32719391758.html?spm=a219c.search0204.3.7.31ca371bYyWFCD&ws_ab_test=searchweb0_0,searchweb201602_1_10152_1015) |
| Métricas M4 Tuerca Hexagonal DIN 934 100 unids para Perno de Fijación de Acero Inoxidable 304(China) | tuercas M4 DIN 934 |  | ALIEXPRESS: 2,34 € pack de 100. [Pulse Aquí.](https://es.aliexpress.com/store/product/M-tricas-M4-Tuerca-Hexagonal-DIN-934-100-unids-para-Perno-de-Fijaci-n-de-Acero/3200073_32832650828.html?spm=a219c.search0204.3.2.7a2a2766MVatA7&ws_ab_test=searchweb0_0%2Csearchweb201602_1_10152_10151_10065_10344_1006) |

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| **Eléctronica** | | | |
| Imagen | Pieza | UDS | Tiendas |
| RAMPS 1.4 bq.png | Ramps 1.4 |  | ALIEXPRESS: 28,58 € pack completo. [Pulse Aquí.](https://es.aliexpress.com/store/product/CNC-3D-Printer-Kit-for-Arduino-Mega-2560-R3-RAMPS-1-4-Controller-LCD-12864-6/1738188_32573508504.html?spm=a219c.search0204.3.1.2435c0d8p77LZa&s=p&ws_ab_test=searchweb0_0%2Csearchweb201602_1_10152_10151_10065_10344_10) |
| Stepsitck Drivers A4988.png | POLULU Stepstick Drivers A4988 |  |
| Panel de Control LCD.PNG | Cable USB tipo B de 1.8 metros. |  |
| Cable USB tipo B 1,8 metros.png | arandelas M4 DIN-125 |  |
| Mega 2560 R3 Mega2560 REV3 (ATmega2560-16AU CH340G) Junta Cable USB Compatible para Arduino Con El Cable USB(China) | Placa arduino mega |  |
| Final de carrera PCB.png | Final de carrera |  |

## Piezas impresas

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| **Piezas Impresas** | | |
| **Uds** | **Nombre** | **Foto** |
| **8** | **CoreXY\_Z\_Axis\_LM12UU\_Nut\_4\_holeboltbigger.FCStd** |  |
| **1** | **nema17\_holder\_v03.FCStd**  **Sujección motor eje Z** |  |
|  | **xy\_motor\_left (YmotorLeft)** |  |
|  | **xy\_motor\_right ( YmotorRight )** |  |
|  | **xy\_idler\_right (YidlerRight)** |  |

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|  | **xy\_idler\_left** |  |
|  | **x-end\_nut.scad. ( x-end\_nut)** |  | |
|  | **x-end\_bolt\_v02.scad** |  | |
| 8 | **SH12 (dold)** |  | |
| 8 | **Ejes Z 12mm diámetro**  **542mm (Dold)** | H6 – CF53 – HRC62 ± 2 Ra0.8 - 50μm/300mm -  + / - 200 micras | |
| 8 | **Igus RJMP-01-12** |  | |
| 2 | **Eje X 10mm diám. 538Mm (Dold)** | H6 – CF53 – HRC62 ± 2 Ra0.8 - 50μm/300mm -  + / - 200 micras | |
| 4 | **Rodamiento lineal LME10UU** |  | |
|  | **x-end\_nut**  **x-end\_nut.scad** |  | |
|  | **x-end\_bolt**  **x-end\_bolt.scad** |  | |
| 1 | **lowcar\_bccr** |  | |
|  | **highcar\_hole** |  | |
|  | **gt2clamp** |  | |
|  | **tot\_extr\_hold\_1** |  | |
|  | **tot\_extr\_hold\_2** |  | |