

DC Motor Drivers

Model: Tic 36v4

Minimum Operating Voltage=8V

Maximum Operating Voltage=50V

Continuous current per phase =4A

Quantity: 3



Link

- 1) [Pololu - Tic 36v4 USB Multi-Interface High-Power Stepper Motor Controller \(Connectors Soldered\)](#)
- 2) [Tic 36v4 USB Multi-Interface High-Power Stepper Motor Controller — Cool Components](#)
- 3) [Tic 36v4 USB Multi-Interface High-Power Stepper Motor Controller \(robotgear.com.au\)](#)
- 1) [Pololu - Tic 36v4 USB Multi-Interface High-Power Stepper Motor Controller \(Connectors Soldered\)](#)

Stepper Motor

Model: PL23HS8P4100

Phase 2

Weight: 0.65 kg

Rated Current 1A

Holding Torque 2.3 Nm



Quantity: 1

Link:

1)[PL23HS8P4100 - NEMA 23 PowerPlus Hybrid Stepper Motors | MOONS' \(moonsindustries.com\)](https://www.moonsindustries.com/pl23hs8p4100)

2)[Moons: Stepper Motors \(PL23HS Series\) \(e-motionsupply.com\)](https://www.e-motionsupply.com/moons-stepper-motors-pl23hs-series)

3)[PL23HS Series - MEV Elektronik Service GmbH \(mev-elektronik.com\)](https://www.mev-elektronik.com/pl23hs-series)

Stepper Motor

Model: ML23HS8P4150

Phase 2

Weight: 0.6 kg

Rated Current: 1.5A

Holding Torque: 1.5 Nm

Quantity: 1



Link:

1)<https://www.moonsindustries.com/p/nema-23-standard-hybrid-stepper-motors/ml23hs8p4150-000004611110011246>

2)[ML23HS8P4150 by MOONS INDUSTRIES | Stepper Motors | Arrow.com](https://www.arrow.com/en/stepper-motors/ml23hs8p4150)

3)[ML23HS8P4150-E by MOONS' Stepper Motors | Avnet](https://www.avnet.com/ml23hs8p4150-e)

Stepper Motor

Model: ML34HD1L4350

Phase 2

Weight: 2.7 kg

Rated Current: 3.5A

Holding Torque: 7.2 Nm

Quantity: 1



Link:

- 1) [ML34HD1L4350 - NEMA 34 Standard Hybrid Stepper Motors | MOONS' \(moonsindustries.com\)](https://www.moonsindustries.com/ml34hd1l4350)
- 2) https://www.e-motionsupply.com/ML34HD1L4350_p/ml34hd1l4350.htm
- 3) [ML34HD1L4350 --- 北京中天恒威科技有限公司 \(zweiic.com\)](https://www.zweiic.com/ml34hd1l4350)

Polycarbonate (3D Printing Material)

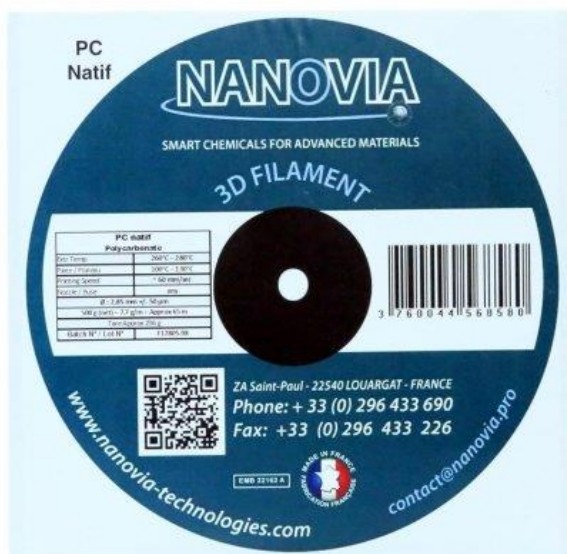
Brand: Nanovia

Filament diameter: 1.75mm,

Material: Polycarbonate

Tensile strength: 2340 MPa

Quantity: 1



Link:

1)<https://www.makershop3d.com/expert-filament/769-polycarbonate-natural.html>

2)[3D Printing Polycarbonate Filament - Gizmo Dorks](#)

3) <https://airwolf3d.com/shop/platinum-series-abs-filament-2-88mm-2-2lbs-122/>

Dynamixel Motor

Model: DYNAMIXEL XM540-W150-T

Recommended Voltage: 12.0V

Max Voltage: 14.8V

Stall Torque 7.30 Nm

Stall Current: 4.4A

Quantity: 2



Link:

[DYNAMIXEL XM540-W150-T - ROBOTIS](#)

Dynamixel Motor

Model: Dynamixel XM430-W350-T Servo

Recommended Voltage: 12.0V

Max Voltage: 14.8V

Stall Torque 4.8 Nm

Stall Current: 2.7 A

Quantity: 1



Link:

[Dynamixel XM430-W350-T Servo \(generationrobots.com\)](https://www.generationrobots.com/dynamixel-xm430-w350-t-servo/)

OR

<https://www.robotis.us/dynamixel-xh430-w350-t/>

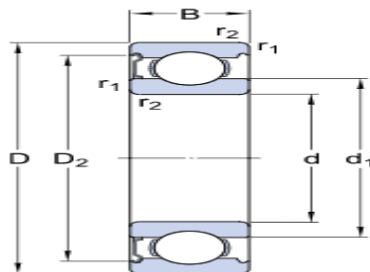
Bearing

Model: 608-Z

DIMENSIONS

d	8 mm
D	22 mm
B	7 mm
d1	≈ 12.15 mm
D2	≈ 19.2 mm
r1,2	min. 0.3 mm

Quantity: 4



Link:

1) <https://www.skf.com/group/products/rolling-bearings/ball-bearings/deep-groove-ball-bearings/productid-608-Z>

2) [608Z | Miniature Ball Bearings and Small Diameter Ball Bearings | NTN | MISUMI South East Asia \(misumi-ec.com\)](#)

3) [608-Z | 8mm Plain Deep Groove Ball Bearing 22mm O.D | RS Components \(rs-online.com\)](#)

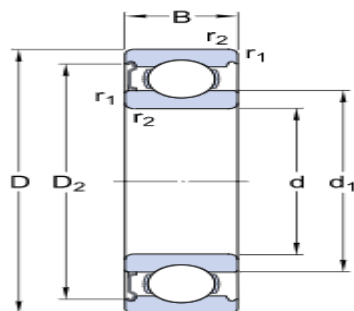
Bearing

Model: 4301 ATN9

DIMENSIONS

d	12 mm
D	37 mm
B	17 mm
d1	≈ 20.5 mm
D1	≈ 28.5 mm
r1,2	min. 1 mm

Quantity: 2



Link:

1) <https://www.skf.com/group/products/rolling-bearings/ball-bearings/deep-groove-ball-bearings/productid-4301%20ATN9>

2) [4301 ATN9 - SKF \(bearingsrus.co.uk\)](#)

3) [4301 ATN9 Double Row SKF Ball Bearing 12mm x 37mm x 17mm - BearingBoys](#)

3) [Double Row Rigid Ball Bearing Ref. Skf 4301 Atn9 \(rodavigo.net\)](#)

Gripper

Length: 98mm

- Width: 103mm

- Maximum opening: 54mm

- Can install MG995 servo, MG996R servo

- Weight: 49g

Quantity: 1



Link:

1) https://www.aliexpress.com/item/32806208220.html?spm=a2g0o.search0302.0.0.1bfb6390rYJUSB&algo_pvid=c5e3e469-3dc7-4e09-8636-e2f67c1dc144&algo_expid=c5e3e469-3dc7-4e09-8636-e2f67c1dc144-8&btsid=0bb0622f16142155496461134ec3c1&ws_ab_test=searchweb0_0,searchweb201602_searchweb201603

2) [2DOF Metal Robot Arm Gripper Mechanical Claw Manipulator + 2pcs High Torque Digital Servo For Robotic Education DIY Free Screw|Parts & Accessories| - AliExpress](#)

3) [Metal Robotic Arm Manipulator Gripper Robot Mechanical Claw Clamp Compatible With MG996R/DS3218 Servo for Robot Arm Part|Action Figures| - AliExpress](#)

Jumper Wires

30cm male to female color breadboard jumper wires

Quantity: 1



Link:

1) <https://hallroad.org/hole-to-hole-duPont-line-40-pin-30cm-jumper-wire-12-inch-female-to-female-in-pakistan.html>

2) [Jumper Wires Male to Female 30cm 1 x 40: Buy Online at Best Prices in Pakistan | Daraz.pk](#)

3) [40 Pin Male to Female 10cm 20cm 30cm Jumper Wires in Pakistan - Electronics Pro \(epro.pk\)](#)