This file contains all the parts you need to build PAROL6 robot!

Most items have links where you can buy the item, and some of them are affiliate links.

Items like screws, belts and bearings can be bought locally or from many other vendors.

	Screws and nuts:			
	diameter , length	quantity	Description	
	M4x10mm	20	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x8mm	10	2 mm head height	
	M3x8mm	50	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x14mm	30	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3 nut	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x25mm	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M2x10mm	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x16mm M3x6mm	10	DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips	
	M3x12mm	30	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x35mm	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M4x16mm	30	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M4x14mm	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M4x50mm	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x15mm	2	Tapered screw head	
	Gearboxes:			
Name in building instructions	Туре	quantity	Description	Alternative
Gearbox 20:1	Nema 17 20:1 EG precision planetary	2	Link	<u>Link</u>
Gearbox 10:1	Nema 17 10:1 EG precision planetary	1	Link	<u>Link</u>
Name in building instructions	Motors: Type	quantity	Description	
Stepper 1	Nema 17 16Ncm,42x42x20mm	1	<u>Link</u>	
Stepper 2	Nema 17 16Ncm,42x42x20mm	3	Link	
Stepper 3	Nema 17 65Ncm,42x42x60mm	2	Link	
	Belts:			
Name in building instructions	Туре	quantity	Description	
Joint 1 belt	HTD3 396	1	6 mm width	
Joint 3 belt	HTD3 342	1	6 mm width	
Joint 4 belt	HTD3 201	1	6 mm width	
Joint 5 belt	HTD3 246	1	6 mm width	
	Pulleys:			
Name in building instructions	Type	quantity	Description	
J4 pulley, J5 pulley J1 pulley	HTD3M 12 tooth 5mm bore 10mm width HTD3M 15 tooth 5mm bore 10mm width	1		
31 pulley	Mechanical stuff:	ı		
Name in building instructions	Туре	quantity	Description	
Shaft coupler	Shaft coupler	3	8 mm hole shaft, M4 screw holes	
Shaft coupler	Shaft coupler Bearings:	3	8 mm hole shaft, M4 screw holes	
Shaft coupler Name in building instructions	Shaft coupler Bearings: Type	quantity	8 mm hole shaft, M4 screw holes Description	
	Bearings:			
Name in building instructions	Bearings: Type	quantity 1 5	Description	
Name in building instructions Bearing 1 Bearing 2 Bearing 3	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J	quantity 1 5 4	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4	quantity 1 5 4 20	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension	
Name in building instructions Bearing 1 Bearing 2 Bearing 3	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4	quantity 1 5 4	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics:	quantity 1 5 4 20 20	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type	quantity 1 5 4 20	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robolics.com	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type AXK35552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160	quantity 1 5 4 20 20 quantity 1 6	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers!	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste On/Off button	quantity 1 5 4 20 20 quantity 1 6	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robolics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1 6 2 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers!	
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Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1 6 6 2 1 1 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1 1 1 1 3	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button CX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Privers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO	
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Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type	quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Description 35x52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button CX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM	
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Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste On/Off button JST PH 2.0 mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic gripper connector	quantity 1 5 4 20 20 20 quantity 1 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Description Source-robolics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type 2W12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM MHZ2-16D PC4 - M5	
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Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type NSK HR32906J NSK HR32907J Sall bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste On/Off button JST PH 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic Gripper Stlink USB B cable	quantity 1 5 4 20 20 quantity 1 6 6 2 1 1 1 1 1 1 1 1 1 4 4 4 1 2 5 meters 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robolics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M1-22-10 M3, 6mm lenght 4 mm type PM MH-IZ2-16D PC4 - M5 I meter, 4x2 5mm used to deliver power to PAROL6 PCB	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Bearings: Type AxK3552 NSK HR32905J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste On/Off button JST PH 2.0mm 200mm 4PIN Noctua NF-Ax20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic Gripper Pneumatic Usbe xi30 connector female Sillink USB B cable 5/2 solenoid air valve	quantity 1 5 4 20 20 20 quantity 1 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type 2W12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM MHZ2-1BD PC4 - M5 1 meter, 4x2.5mm used to deliver power to PAROL6 PCB Use link! Pin order needs to be: SWCLK,SWDIO,GND,3V3,5V	
Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing Name in building instructions	Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste On/Off button JST PH 2. Omm 200mm 4PIN Noctua NF-Ax20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic connector - robot Pneumatic Gripper Pneumatic gripper connector Pneumatic gripper connector Pneumatic gripper connector Pneumatic under supple static supple supp	quantity 1 5 4 20 20 quantity 1 6 6 2 1 1 1 1 1 1 1 1 2 5 meters 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension Used for belt tension Description Source-robotics.com Drivers from the links are tested. Use any other at own risk: Link1 Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN M8 sensor Female 4 pin Any 24V 5A supply Type 2W12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM MHZ2-16D PC4 - M5 1 meter, 4x2.5mm used to deliver power to PAROL6 PCB Use link! Pin order needs to be: SWCLK,SWDIO,GND,3V3,5V Comms to the PC 4mm tube connectors, 5/2, 24V	
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