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	Link
	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	10	DIN 912 / ISO 4762 (hexagon socket head cap)	
	M3x6mm	10	Pan head phillips	
		30		
	M3x12mm		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	Link
Gearbox 20:1	Nema 17 20:1 EG precision planetary	2	Link	Link
Gearbox 10:1	Nema 17 10:1 EG precision planetary	1	Link	Link
OCCUPON 10.1			<u>Enix</u>	<u>CITIX</u>
Name in building instructions	Motors:	g.contit-	Description	Link
Name in building instructions	Type	quantity	Description	Link
Stepper 1	Nema 17 16Ncm,42x42x20mm	1	Link	<u>Link</u>
Stepper 2	Nema 17 45Ncm,42x42x40mm	3	Link	<u>Link</u>
Stepper 3	Nema 17 65Ncm,42x42x60mm	2	<u>Link</u>	<u>Link</u>
	Belts:			
Name in building instructions	Туре	quantity	Description	Link
Joint 1 belt	HTD3 396	1	6 mm width	
Joint 3 belt	HTD3 342	1	6 mm width	Link
Joint 4 belt	HTD3 201	1	6 mm width	Link
	HTD3 246	'		
Joint 5 belt		<u>'</u>	6 mm width	Link
Name to be the transport of	Pulleys:			
Name in building instructions	Туре	quantity	Description	Link
			•	
J4 pulley, J5 pulley	HTD3M 12 tooth 5mm bore 10mm width	2		<u>Link</u>
J4 pulley, J5 pulley J1 pulley	HTD3M 12 tooth 5mm bore 10mm width HTD3M 15 tooth 5mm bore 10mm width	2		<u>Link</u>
		1		
	HTD3M 15 tooth 5mm bore 10mm width	2 1 quantity	Description	
J1 pulley Name in building instructions	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type	1	-	Link Link
J1 pulley	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler	1 quantity	Description 8 mm hole shaft, M4 screw holes	Link
J1 pulley Name in building instructions Shaft coupler	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings:	quantity 3	8 mm hole shaft, M4 screw holes	Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type	1 quantity	8 mm hole shaft, M4 screw holes Description	Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552	quantity 3 quantity 1	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate	Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J	quantity 3 quantity 1 5	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3	Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXX3552 NSK HR32906J NSK HR32907J	quantity 3 quantity 1 5 4	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4	quantity 3 quantity 1 5 4 20	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXX3552 NSK HR32906J NSK HR32907J	quantity 3 quantity 1 5 4	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4	quantity 3 quantity 1 5 4 20	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4	quantity 3 quantity 1 5 4 20	8 mm hole shaft, M4 screw holes Description 35X52X4, needs to have top and bottom plate Joint 5, 4 and 3 Joint 1 and 2 Used for belt tension	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics:	1 quantity 3 quantity 1 1 5 4 20 20	8 mm hole shaft, M4 screw holes 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	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board	1 quantity 3 quantity 1 1 5 4 20 20	8 mm hole shaft, M4 screw holes 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	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160	1 quantity 3 quantity 1 1 5 4 20 20 20 quantity 1 6	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers!	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler Bearings: Type AXX3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste	1 quantity 3 quantity 1 5 4 20 20 quantity 1 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! Needed only if your control board has no drivers!	Link Link Link Link Link Link Link Link
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J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN	1 quantity 3 quantity 1 1 5 4 20 20 20 quantity 1 6	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! Needed only if your control board has no drivers!	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm	1 quantity 3 quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! 12mm 3-6V For power button	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female	1 quantity 3 quantity 1 1 5 4 20 20 20 quantity 1 6	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric)	1 quantity 3 quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! Needed only if your control board has no drivers! 12mm 3-6V For power button GX16 2PIN M8 sensor Female 4 pin	Link Link Link Link Link Link Link Link
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J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches	1 quantity 3 quantity 1 5 4 20 20 quantity 1 6 6 2 1 1 1 1 1 1 1 1	8 mm hole shaft, M4 screw holes 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 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	Link Link Link Link Link Link Link Link
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J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Pneumatic connector - robot Pneumatic Gripper	1 quantity 3 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 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! Needed only if your control board has no drivers! 12mm 3-6V For power button M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop 4 mm type PM MHZ2-16D	Link Link Link Link Link Link Link Link
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J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Pneumatic connector - robot Pneumatic Gripper Pneumatic gripper connector	1 quantity 3 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 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! 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 4rmm NPN NO GX-F8A M5, NPN NO Any NC estop 4 mm type PM MHZ2-16D PC4 - M5	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Ubbe xt30 connector female	1 quantity 3 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 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! 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 4 mm type PM MHZ2-16D PC4 - M5 1 meter, 4x2.5mm used to deliver power to PAROL6 PCB	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 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 3 Estop Pneumatic Gripper Pneumatic Gripper connector Pneumatic Gripper connector Pneumatic Gripper connector Pneumatic Ube xt30 connector female Stlink	1 quantity 3 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 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! 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 4 mm type PM MHZ2-16D PC4 - M5 1 meter, 4x2.5mm used to deliver power to PAROL6 PCB Used to program PAROL6 control board	Link Link Link Link Link Link Link Link
J1 pulley Name in building instructions Shaft coupler Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	HTD3M 15 tooth 5mm bore 10mm width Mechanical stuff: Type Shaft coupler 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 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Ubbe xt30 connector female	1 quantity 3 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 1 1	8 mm hole shaft, M4 screw holes 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 Needed only if your control board has no drivers! 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 4 mm type PM MHZ2-16D PC4 - M5 1 meter, 4x2.5mm used to deliver power to PAROL6 PCB	Link Link Link Link Link Link Link Link