This file contains all the parts you need t	o build PAROL6 robot!		
Most items have links where you can buy	the item, and some of them are affiliate	e links.	
Items like screws, belts and bearings car	be bought locally or from many other	endors.	

	0			
	Screws and nuts: diameter , length	quantity	Description	Link
	M4x10mm	20	DIN 912 / ISO 4762 (hexagon socket head cap)	LIIK
	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	
	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	Link
Gearbox 20:1	Nema 17 20:1 EG precision planetary	2	<u>Link</u>	Aliexpress Link
Gearbox 10:1	Nema 17 10:1 EG precision planetary	1	Link	Aliexpress Link
	Motors:			
Name in building instructions	Туре	quantity	Description	Link
Stepper 1	Nema 17 16Ncm,42x42x20mm	1	<u>Link</u>	Aliexpress Link
Stepper 2	Nema 17 45Ncm,42x42x40mm	3	<u>Link</u>	Aliexpress Link
Stepper 3	Nema 17 65Ncm,42x42x60mm	2	<u>Link</u>	Aliexpress Link
	Belts:			
Name in building instructions	Туре	quantity	Description	Link
Joint 1 belt	HTD3 396	1	6 mm width	<u>Link</u>
Joint 3 belt	HTD3 342	1	6 mm width	Link
Joint 4 belt	HTD3 201	1	6 mm width	Link
Joint 5 belt	HTD3 246	1	6 mm width	Link
	Pulleys:			
Name in building instructions	Туре	quantity	Description	Link
J4 pulley, J5 pulley	HTD3M 12 tooth 5mm bore 10mm width	2		Link
J1 pulley	HTD3M 15 tooth 5mm bore 10mm width	1		Link
	Mechanical stuff:			
Name in building instructions	Туре	quantity	Description	Link
Name in building instructions Shaft coupler	Shaft coupler	quantity 3	Description 8 mm hole shaft, M4 screw holes	Link Link
Shaft coupler	Shaft coupler Bearings:	3	8 mm hole shaft, M4 screw holes	Link
Shaft coupler  Name in building instructions	Shaft coupler Bearings: Type		8 mm hole shaft, M4 screw holes Description	<u>Link</u>
Shaft coupler  Name in building instructions  Bearing 1	Shaft coupler Bearings: Type AXK3552	quantity	8 mm hole shaft, M4 screw holes  Description  35X52X4, needs to have top and bottom plate	Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2	Shaft coupler Bearings: Type AXK3552 NSK HR32906J	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
Shaft coupler  Name in building instructions  Bearing 1  Bearing 2  Bearing 3	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J	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
Shaft coupler  Name in building instructions  Bearing 1  Bearing 2  Bearing 3  Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4	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
Shaft coupler  Name in building instructions  Bearing 1  Bearing 2  Bearing 3	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4	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
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics:	3 quantity 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
Shaft coupler  Name in building instructions  Bearing 1  Bearing 2  Bearing 3  Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type	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  Used for belt tension  Description	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board	quantity 1 5 4 20 20 quantity 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160	3	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 Privers from the links are tested. Use any other at own risk: Link1	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste	quantity 1 5 4 20 20 quantity 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 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!	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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	3	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  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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 TMC5160 TMCFMI paste On/Off button JST PH 2.0mm 200mm 4PIN	3 quantity 1 5 4 20 20 quantity 1 6 6 2 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 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!	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Ellectronics: Type PAROL control board TMC5160 Thermal paste On/Off button JST PH 2.0mm 200mm 4PIN Noctua NF-A4x20 5V 40mm	3 quantity 1 5 4 20 20 quantity 1 6 6 2 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 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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	3 quantity 1 5 5 4 20 20 20 quantity 1 6 2 2 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 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8v4 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)	3 quantity 1 5 4 20 20 quantity 1 6 6 2 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  Bource-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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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	3 quantity 1 5 4 20 20 quantity 1 6 2 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  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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXX(3552 NSK HR32906J NSK HR32907J Ball bearing 3x8x4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMCS160 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	3 quantity 1 5 4 20 20 quantity 1 6 6 2 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  Bource-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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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	3 quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1 1 3	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  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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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	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 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J 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 2	3 quantity 1 1 5 4 20 20 20 quantity 1 1 6 6 2 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  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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXX(3552 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	3 quantity 1 5 4 20 20 quantity 1 6 6 2 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  Bource-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 ZW12-3  4mm NPN NO  GX-F8A	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J 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 2	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	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 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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-44x20 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop	3 quantity 1 1 5 4 20 20 quantity 1 6 6 2 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 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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 Cable gland for estop M3 brass insert	3 quantity 1 1 5 4 20 20 Quantity 1 6 6 2 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 Drivers from the links are tested. Use any other at own risk: Linkt 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 M3, 6mm lenght	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic connector - robot Pneumatic Gripper	3 quantity 1 5 4 20 20 Quantity 1 6 6 2 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  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 2W12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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 Cable gland for estop M3 brass insert Pneumatic connector - robot	3 quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1 1 1 1 4 4 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 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 ZW12-3 4mm NPN NO GX-F8A M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM MHZ2-16D	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler  Bearings: Type  AXX(3552  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 connect (electric)  Power supply  Limit switches  Inductive sensor 1  Inductive sensor 1  Inductive sensor 3  Estop  Cable gland for estop  M3 brass insert  Pneumatic connector - robot  Pneumatic Gripper  Pneumatic Gripper  Pneumatic gripper connector	3 quantity 1 5 4 20 20 quantity 1 6 6 2 1 1 1 1 1 1 1 4 4 4 1 2	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 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 M3, 6mm lenght 4 mm type PM MHZ2-16D PC4 - M5	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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 Cable gland for estop M3 brass insert Pneumatic connector - robot Pneumatic gripper connector Pneumatic gripper preumatic gripper Pneumatic gripper Pneumatic gripper Pneumatic ube	3 quantity 1 1 5 4 20 20 quantity 1 6 6 2 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 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 M3, 6mm lenght 4 mm type PM MHZ2-16D PC4 - M5 1 meter, 4x2.5mm	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8v4 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 Cable gland for estop M3 brass insert Pneumatic connector - robot Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic gripper connector Pneumatic gripper Pneumatic tube xt30 connector female	3 quantity 1 1 5 4 20 20 Quantity 1 6 6 2 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  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 M3, 6mm lenght 4 mm type PM MHZZ-16D PC4 - M5 I meter, 4x2.5mm used to deliver power to PAROL6 PCB	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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  Cable gland for estop  M3 brass insert  Pneumatic connector - robot  Pneumatic Gripper  Pneumatic Gripper  Pneumatic Gripper  Pneumatic ubbe  xt30 connector female  Stlink	3 quantity 1 5 4 20 20 quantity 1 6 6 2 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  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 GX-F8A  M5, NPN NO Any NC estop PG7 type M3, 6mm lenght 4 mm type PM MHZ2-16D PC4 - M5 I meter, 4x2.5mm used to deliver power to PAROL6 PCB Use link! Pin order needs to be: SWCLK,SWDIO,GND,3V3,5V	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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 SV 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic connector - robot Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic gripper connector Pneumatic ubbe xt30 connector female Stilink USB B cable	3 quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1 1 1 4 4 4 1 2 5 meters 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 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 M3, 6mm lenght 4mm 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing	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 Pt 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 Cable gland for estop M3 brass insert Pneumatic Gripper connector Pneumatic Ube X30 connector female Stlink USB B cable 5/2 solenoid air valve	3 quantity 1 5 4 20 20 quantity 1 6 2 1 1 1 1 1 1 1 4 4 4 1 2 5 meters 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 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 M3, 6mm lenght 4mm 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	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing  Name in building instructions	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x8v4 Ball bearing 3x10x4 Electronics: Type PAROL control board TMC5160 Thermal paste On/Off button JST PH 2.0mm 200mm 4PIN Noctua NF-Ax420 5V 40mm Power connector - male + female Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 1 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic gripper connector Pneumatic tube xl30 connector female Stlink USB B cable 5/2 solenoid air valve Vacuum gripper	3 quantity 1 1 5 4 20 20 20 quantity 1 1 6 6 2 2 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  Drivers from the links are tested. Use any other at own risk: Linkt  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  Ary NC estop  PG7 type  M3, 6mm lenght  4 mm type PM  MH22-16D  PC4 - M5  1 meter, 4x2.5mm  used to deliver power to PAROL6 PCB  Use linkt Pin order needs to be: SWCLK,SWDIO,GND,3V3,5V  Comms to the PC  4mm tube connectors, 5/2, 24V	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing  Name in building instructions	Shaft coupler Bearings: Type AXK3552 NSK HR32906J NSK HR32907J Ball bearing 3x844 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 2 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic ube xt30 connector female Stlink USB B cable 5t/2 solenoid air valve Vacuum gripper Type	3  quantity 1 5 4 20 20  quantity 1 6 6 2 1 1 1 1 1 1 1 1 1 1 2 5 meters 1 1 1 1 1 1 1 1 4 4 4 1 1 2 7 4 4 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  Drivers from the links are tested. Use any other at own risk: Linkt  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  Ary NC estop  PG7 type  M3, 6mm lenght  4 mm type PM  MH22-16D  PC4 - M5  1 meter, 4x2.5mm  used to deliver power to PAROL6 PCB  Use linkt Pin order needs to be: SWCLK,SWDIO,GND,3V3,5V  Comms to the PC  4mm tube connectors, 5/2, 24V	Link Link Link Link Link Link Link Link
Shaft coupler  Name in building instructions Bearing 1 Bearing 2 Bearing 3 Tension bearing Tension bearing  Name in building instructions	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 Gripper connector (electric) Power supply Limit switches Inductive sensor 1 Inductive sensor 2 Inductive sensor 2 Inductive sensor 3 Estop Cable gland for estop M3 brass insert Pneumatic connector - robot Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Gripper Pneumatic Jube xt30 connector female Stlink USB B cable 5/2 solenoid air valve Vacuum gripper Type Suction cup gripper	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  Drivers from the links are tested. Use any other at own risk: Linkt  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  Ary NC estop  PG7 type  M3, 6mm lenght  4 mm type PM  MH22-16D  PC4 - M5  1 meter, 4x2.5mm  used to deliver power to PAROL6 PCB  Use linkt Pin order needs to be: SWCLK,SWDIO,GND,3V3,5V  Comms to the PC  4mm tube connectors, 5/2, 24V	Link Link Link Link Link Link Link Link