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.	
and the second s	

diam M4x M3x8 M4x8 M3x8 M4x8 M3x8 M4x8 M3x8 M3x8 M3x8 M4x8 M3x8 M3x8 M4x8 M3x8 M4x8 M3x8 M	x10mm xx8mm xx8mm xx14mm xx14mm xx10mm xx10mm xx16mm xx16mm xx16mm xx16mm xx16mm xx14mm xx35mm xx112mm xx35mm xx16mm xx14mm xx50mm xx14mm xx14mm xx50mm	quantity 20 10 550 30 10 10 10 10 10 10 10 10 10 10 10 10 10	Description DIN 912 / ISO 4762 (hexagon socket head cap) 2 mm head height DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	Link
M4x' M3x6 M3x6 M3x6 M3x6 M3x7 M4x7 M4x7 M4x8 M3x7 M3x7 M3x8 M3x7 M3x8 M3x7 M3x8	x10mm xx8mm xx8mm xx14mm xx14mm xx10mm xx10mm xx10mm xx16mm xx16mm xx16mm xx16mm xx14mm xx35mm xx16mm xx16mm xx16mm	20 10 50 30 10 10 10 10 10 10 30 10 30 10	DIN 912 / ISO 4762 (hexagon socket head cap) 2 mm head height DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	Link
M4x' M3x6 M3x6 M3x6 M3x6 M3x7 M4x7 M4x7 M4x8 M3x7 M3x7 M3x8 M3x7 M3x8 M3x7 M3x8	x10mm xx8mm xx8mm xx14mm xx14mm xx10mm xx10mm xx10mm xx16mm xx16mm xx16mm xx16mm xx14mm xx35mm xx16mm xx16mm xx16mm	20 10 50 30 10 10 10 10 10 10 30 10 30 10	DIN 912 / ISO 4762 (hexagon socket head cap) 2 mm head height DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3xt M3xt M3xr M3 n M3xr M3 n M3xr M2xr M3xr M3xr M3xr M3xr M3xr M3xr M4xr M4xr M4xr M4xr M4xr M4xr M4xr M4	xx8mm xx8mm xx14mm xx14mm xx14mm xx25mm xx16mm xx16mm xx12mm xx35mm xx14mm xx16mm xx14mm xx16mm xx14mm xx16mm	10 50 30 10 10 10 10 10 10 30 10 10 10 10 10 10 10 10 10 10 10 10 10	2 mm head height DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x8	x8mm x14mm x14mm x1 nut x25mm xx16mm xx6mm xx16mm xx35mm xx14mm xx35mm xx16mm xx14mm xx50mm	50 30 10 10 10 10 10 10 10 30 10 10 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x* M3 n M3x M2x* M3x* M3x* M3x* M3x* M3x* M4x* M4x* M4x* M4x* M4x* M3x* M3x* M4x* M4x* M4x* M3x* M3x* M4x* M4x* M4x* M3x* M4x* M3x* M4x* M4x* M3x* M4x* M3x* M4x* M4x* M4x* M4x* M4x* M4x* M4x* M4	x14mm x1nut x25mm xx10mm xx10mm xx6mm xx16mm xx35mm xx14mm xx35mm xx16mm xx14mm xx16mm xx14mm xx10mm	30 10 10 10 10 10 10 10 30 10 30 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3 n M3x2 M2x1 M3x2 M3x4 M3x4 M3x4 M3x4 M4x2 M4x2 M4x2 M3x4 M4x2 M4x2 M3x4 M3x4 M4x5 M3x4 M4x5 M3x4 M4x5 M3x4 M3x4 M4x5 M3x4 M3x4 M3x4 M3x4 M3x4 M3x4 M3x4 M3x4	nut xx25mm xx10mm xx16mm xx6mm xx122mm xx35mm xx14mm xx16mm xx14mm xx50mm xx14mm xx50mm xx14mm xx50mm xx15mm xx15mm	10 10 10 10 10 10 30 10 30 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x2 M2x2 M3x3 M2x4 M3x4 M3x4 M3x4 M3x4 M3x4 M3x4 M3x4 M4x5 M3x5 M4x5 M3x5	x25mm x10mm x16mm x12mm x12mm x35mm x12mm x35mm x16mm xx16mm xx16mm xx16mm xx16mm xx16mm xx14mm xx50mm xx15mm xx15mm	10 10 10 10 30 10 30 10 30	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M2x M3x M3x M3x M3x M3x M3x M3x M3x M4x M4x M4x M3x	x10mm x16mm x16mm x12mm x35mm x16mm x116mm x16mm x16mm x14mm xx44mm xx50mm x15mm x15mm arboxes:	10 10 10 30 10 30 10 30 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x M3x M3x M3x M3x M3x M3x M3x M4x M5x	x16mm x6mm x12mm x35mm x16mm x146mm x14mm xx44mm xx50mm xx15mm xx15mm xx15mm	10 10 30 10 30 10 10	DIN 912 / ISO 4762 (hexagon socket head cap) Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x6	x6mm x12mm x35mm x16mm x14mm x14mm xx50mm xx14mm xx16mm xx19mm xx19mm	10 30 10 30 10 10	Pan head phillips DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x' M3x' M4x'	x12mm x35mm x16mm x14mm x14mm xx50mm x15mm x15mm x15mm	30 10 30 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x3 M4x4 M4x5 M4x5 M4x5 M4x5 M4x5 M4x5 M3x7 M4x5 M3x7 M4x5 M3x7 M4x5	x35mm x16mm x14mm x50mm x15mm x10mm	10 30 10 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M3x3 M4x4 M4x5 M4x5 M4x5 M4x5 M4x5 M4x5 M3x7 M4x5 M3x7 M4x5 M3x7 M4x5	x35mm x16mm x14mm x50mm x15mm x10mm	10 30 10 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M4x' M4x' M4x' M4x' M4x' M4x' M5x' M5x' M5x' Gear Mame in building instructions Type Gearbox 20:1 Nem Gearbox 10:1 Nem Nem Nem Nem Nem M4x' M4x' M5x'	x16mm :x14mm :x50mm :x50mm :x50mm :x15mm :x1	30 10 10	DIN 912 / ISO 4762 (hexagon socket head cap) DIN 912 / ISO 4762 (hexagon socket head cap)	
M4x' M4x' M4x' M3x' Gear Mame in building instructions Type Gearbox 20:1 Nem Gearbox 10:1 Nem Ne	x14mm x50mm x15mm arboxes:	10 10	DIN 912 / ISO 4762 (hexagon socket head cap)	
M4xt	x50mm x15mm arboxes:	10		
M3x Gear	x15mm arboxes: pe		DIN 912 / ISO 4762 (hexagon socket head cap)	
Gear Name in building instructions Type Gearbox 20:1 Nem Gearbox 10:1 Nem	arboxes:	2		
Name in building instructions Type Gearbox 20:1 Nem Gearbox 10:1 Nem	pe		Tapered screw head	
Gearbox 20:1 Nem Gearbox 10:1 Nem				
Gearbox 20:1 Nem Gearbox 10:1 Nem		quantity	Description	Link
Gearbox 10:1 Nem	ma 17 20:1 EG precision planetary	2	Link	Link
		1	Link	Link
IMOTO				
lame in building instructions		au amála /	Description	Link
Name in building instructions Type		quantity	Description	Link
		1	Link	Link
Stepper 2 Nem		3	<u>Link</u>	<u>Link</u>
Stepper 3 Nem	ma 17 65Ncm,42x42x60mm	2	<u>Link</u>	<u>Link</u>
Belts	its:			
Name in building instructions Type	pe	quantity	Description	Link
	D3 396	1	6 mm width	
		1	6 mm width	
	50 201	1	6 mm width	
		1	6 mm width	
	lleys:			
Name in building instructions Type	pe	quantity	Description	Link
14 pulley, J5 pulley HTD	FD3M 12 tooth 5mm bore 10mm width	2		<u>Link</u>
11 pulley HTC	FD3M 15 tooth 5mm bore 10mm width	1		<u>Link</u>
Mec	chanical stuff:			
Name in building instructions Type		quantity	Description	Link
		3	8 mm hole shaft, M4 screw holes	Link
		3	o min noie shart, ivi- screw noies	LITIK
	arings:		.	
Name in building instructions Type				Link
Bearing 1 AXK		1	35X52X4, needs to have top and bottom plate	<u>Link</u>
Bearing 2 NSK	K HR32906J	5	Joint 5, 4 and 3	
Bearing 3 NSK	K HR32907J	4	Joint 1 and 2	
Fension bearing Ball to	Il bearing 3x8x4	20	Used for belt tension	<u>Link</u>
-		20	Used for belt tension	Link
	ectronics:	_,		
		au antity	Description	Link
Name in building instructions Type		quantity		
		1	source-robotics.com	<u>Link</u>
On/C	on batton	1	12mm 3-6V	<u>Link</u>
	T PH 2.0mm 200mm 4PIN	1	For power button	<u>Link</u>
JST				
JST		1		
JST Noct	ctua NF-A4x20 5V 40mm	1	GX16 2PIN	<u>Link</u>
JST I Noct Powe	ctua NF-A4x20 5V 40mm wer connector - male + female	1		
JST I Noct Powe Gripp	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric)	1	M8 sensor Female 4 pin	<u>Link</u>
JST Noct Powe Gripp Powe	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply	1 1	M8 sensor Female 4 pin Any 24V 5A supply	<u>Link</u> <u>Link</u>
JST Noct Pow Gripp Pow Limit	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches	1	M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3	Link Link Link
JST I Noct Pow Gripp Pow Limit Indue	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches luctive sensor 1	1 1 1 3 1	M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO	Link Link Link Link
JST Noct Pow Gripp Pow Limit	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches luctive sensor 1 luctive sensor 2	1 1 1 3 1	M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO GX-F8A	Link Link Link Link
JST Noct Pow Gripp Pow Limit	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches luctive sensor 1 luctive sensor 2	1 1 1 3 1	M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO	Link Link Link Link Link Link
JST Noct Pow Gripp Pow Limit	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches luctive sensor 1 luctive sensor 2 luctive sensor 3	1 1 1 3 1	M8 sensor Female 4 pin Any 24V 5A supply Type ZW12-3 4mm NPN NO GX-F8A	Link Link Link Link
JST Noct Pow Gripp Pow Limit Indu Indu Esto	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches luctive sensor 1 luctive sensor 2 luctive sensor 3 top	1 1 1 3 1 1 1	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
JST Noct Powe Gript Powe Limit Indue Indue Esto Pneu	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply it switches luctive sensor 1 luctive sensor 3 top eumatic connector - robot	1 1 1 3 1 1 1	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
JST Noct Powe Gript Powe Limit Indue Indue Esto Pnet	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply iit switches luctive sensor 1 luctive sensor 3 top eumatic connector - robot eumatic Gripper	1 1 1 3 1 1 1 1 1 1	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
JST Noct Powe Gript Powe Limit Indue Indue Esto Pnet Pnet Pnet	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply init switches fluctive sensor 1 fluctive sensor 3 totop eumatic connector - robot eumatic Gripper eumatic gripper connector	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	Link Link Link Link Link Link Link Link
JST Noct Pow Gripp Pow Limit Indu Indu Indu Esto Pne Pne Pne	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches uctive sensor 1 tuctive sensor 2 tuctive sensor 3 top eumatic connector - robot eumatic Gripper eumatic gripper connector eumatic tube	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	Link Link Link Link Link Link Link Link
JST Noct Pow Gripp Pow Limit Indu Indu Indu Estoy Pnet Pnet Pnet Pnet Limit Indu Extra Indu Extr Indu Extra Indu Extr Indu Extra Indu Extra Indu Extra Ind	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply init switches luctive sensor 1 luctive sensor 2 luctive sensor 3 top eumatic connector - robot eumatic Gripper eumatic gripper connector eumatic gripper connector eumatic tube 0 connector female	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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
JST Noct Pow Gripp Pow Limit Indu Indu Indu Esto Pne Pne Pne	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply init switches luctive sensor 1 luctive sensor 2 luctive sensor 3 top eumatic connector - robot eumatic Gripper eumatic gripper connector eumatic gripper connector eumatic tube 0 connector female	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	Link Link Link Link Link Link Link Link
JST Noct Pow Gripp Pow Limit Indu Indu Indu Esto Pnet Pnet Pnet Pnet Pnet Stand Stind	ctua NF-A4x20 5V 40mm wer connector - male + female pper connector (electric) wer supply nit switches luctive sensor 1 luctive sensor 2 luctive sensor 3 ltop eumatic connector - robot eumatic Gripper eumatic gripper connector eumatic gripper connector eumatic tube 0 connector female ink	1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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