

Troublemaker - Elektronik.si 3D printer derivative based on Ultimaker				
Sklop	Part/service	Del/storitev	Quantitiy/ količina	Unit/enota
Ohišje / Enclosure	Birch plywood 6mm	Vezana plošča 6mm	1,3	m^2
	Birch plywood 4mm	Vezana plošča 4mm	0,1	m^2
	Compact wood 12mm	Kompakt plošča 12mm	0,25	m^2
	Laser cutting	Razrez	1	pc/kom
Vijaki / Screws	Screw TORX M3 10mm BN6404	Vijak leč TORX M3 10mm BN6404	80	pcs/kom
	Screw TORX M3 16mm BN6404	Vijak leč TORX M3 16mm BN6404	100	pcs/kom
	Screw IMBUS M3 25mm DIN912	Vijak IMBUS M3 25mm DIN912	30	pcs/kom
	Screw IMBUS M3 30mm DIN912	Vijak IMBUS M3 30mm DIN912	50	pcs/kom
	Screw HEX M3 40mm DIN933	Vijak HEX M3 40mm DIN933	10	pcs/kom
	Screw M4 10mm DIN7985	Vijak M4 10mm DIN7985	4	pcs/kom
	Screw HEX M4 35mm DIN933	Vijak HEX M4 35mm DIN933	5	pcs/kom
	Screw IMBUS M4 vgreznjena glava 30mm DIN7991	Vijak IMBUS M4 vgreznjena glava 30mm DIN7991	3	pcs/kom
	Screw M4 50mm DIN7985	Vijak M4 50mm DIN7985	2	pcs/kom
	Washer M3 large 9mm diameter DIN9021	Podložka M3 velika 9mm premer DIN9021	150	pcs/kom
	Washer M4 DIN125	Podložka M4 DIN125	10	pcs/kom
	Screw nut M3 4-roba DIN562	Matica M3 4-roba DIN562	100	pcs/kom
	Screw nut M3 DIN934	Matica M3 DIN934	80	pcs/kom
	Screw nut M4 DIN934	Matica M4 DIN934	10	pcs/kom
	Wing nut M4 DIN315	Krilata matica M4 DIN315	3	pcs/kom
	Spring 5mm diameter, 12mm length, 1mm wire	Vzmet 5mm premer, 12mm dolžina, 1mm žica	5	pcs/kom
Vodila / Linear mechanics	Precision round rail (smooth rod) W12 - 12mm x 409mm	Vodilo okroglo W12 - 12mm x 409mm	1	pc/kom
	Precision round rail (smooth rod) W8 - 8mm x 337mm	Vodilo okroglo W8 - 8mm x 337mm	2	pcs/kom
	Precision round rail (smooth rod) W8 - 8mm x 348mm	Vodilo okroglo W8 - 8mm x 348mm	2	pcs/kom
	Precision round rail (smooth rod) W6 - 6mm x 265mm	Vodilo okroglo W6 - 6mm x 265mm	2	pcs/kom
	Trapezoidal screw Tr12x3 KUE 12 A R - 12mm x 390mm	Trapezno vreteno Tr12x3 KUE 12 A R - 12mm x 390mm	1	pc/kom
	Trapezoidal nut C45	Matica trapezna C45	1	pc/kom
	Machining the trapezoidal screw to 8mm diameter in 15 length on one side	Obdelava - postružen konec vretena na 8mm v dolžini 15mm	1	pc/kom
	Machining the round trapezoidal nut to to create flat surfaces on the opposite sides, diameter 25mm	Obdelava - porezkana okroglina na nasprotnih straneh trapezne matice, tako da je ta debela 25mm	1	pc/kom
Mehanika / Mechanics	GT2 pulley, 5mm bore, 20 teeth, 6mm wide	GT2 jermenica 5mm os, 20 zob, 6mm širina	2	pcs/kom
	GT2 pulley, 8mm bore, 20 teeth, 6mm wide	GT2 jermenica 8mm os, 20 zob, 6mm širina	10	pcs/kom
	GT2 timing belt closed 100 teeth - 200mm	GT2 100zob jermen 6mm	2	pcs/kom
	Option 1: GT2 timing belt closed 308 teeth - 616mm (use wooden sliding block with a shallow notch)	Opcija 1: GT2 308zob jermen (uporabi lesene dele za voziček z plitkim izrezom)	4	pcs/kom
	Option 2: GT2 timing belt closed 305 teeth - 610mm (use wooden sliding block parts with a deep notch)	Opcija 2: GT2 308zob jermen (uporabi lesene dele za voziček z globokim izrezom)	4	pcs/kom
	Option 3: GT2 timing belt open (use planet-cnc printed sliding blocks)	Opcija 3: GT2 neskončen jermen (uporabi planet-cnc natisnjene vozičke)	2,5	m
	Bearing LM6UU	Ležaj LM6UU	4	pcs/kom
	Bearing LM12UU	Ležaj LM12UU	4	pcs/kom
	Bearing 688ZZ (8 x 16 x 5mm)	Ležaj 688ZZ (8 x 16 x 5mm)	8	pcs/kom
	Bearing 608ZZ (8 x 22 x 7mm)	Ležaj 608ZZ (8 x 22 x 7mm)	2	pcs/kom
	CNC coupling 5mm to 8mm	Cnc sklopka 5mm na 8mm	1	pc/kom
	Bushing SKF PCMF 081009.5 E	Drsna puša SKF PCMF 081009.5 E	8	pcs/kom
Elektronika/ Electronics	Control electronics (LCD,SD, bed, 2 extruders,..) Marlin compatible	Krmilna elektronika (LCD,SD, bed, 2 extruders,..) - Marlin	1	pc/kom
	Stepper drivers PoStep25-32	Driverji za koračnike PoStep25-32	4	pcs/kom
	Steppers NEMA17 (for X,Y, Z axis)	Koračni motorji NMEA17 (za osi X,Y,Z)	3	pcs/kom
	Power supply 24V 4.8A PoPower24	Napajalnik 24V 4.8A	1	pc/kom
	Stepper with reductor 14:1 (extruder)	Koračni motor z reduktorjem 14:1 (ekstruder)	1	pc/kom
	Cables (3m 0,75mm^2, 1,35m 16pin flat + IDC)	Kabli (3m 0,75mm^2, 1,35m 16pin flat + IDC)	1	pc/kom
	230V socket with switch Multicomp JR-101-1-FRSG-02	230V vtičnica s stikalom Multicomp JR-101-1-FRSG-02	1	pc/kom
	End switch	Končno stikalo	6	pcs/kom
Ekstruder in glava / extruder and hotend	E3D hotend - 1.75mm bowden version	E3D tiskalna glava 1.75mm bowden verzija	1	pc/kom
	Push-fit pneumatic coupling SQH 04 01s	Push-fit pnevmatska spojka SQH 04 01s	2	pcs/kom
	Bowden 4mm outer 2mm inner 500mm length	Bowden 4mm zunaj 2mm znotraj 500mm dolžine	1	pc/kom
	Fan 30x30mm 24V	Ventilator 30x30mm 24V	1	pc/kom
	Fan 40x40mm 24V	Ventilator 40x40mm 24V	1	pc/kom
	Lycy cable 8way (for connecting print head)	Lycy kabel 8žil (za tiskalno glavo)	1,35	m
	Thermocouple	Termočlen	1	pc/kom
	Heater 24V 40W	Grelec 24V 40W	1	pc/kom
	MK7 filament drive gear	MK7 filament drive gear	1	pc/kom
	E3D printed bracket	E3D nosilec - natisnjen	1	pc/kom
	Printed extruder (planet-cnc design)	Natisnjen ekstruder (planet-cnc konstrukcija)	1	pc/kom
Greta miza in komora / heated bedn and chamber	Cork sheet 21x21cm	Pluta 21x21cm	1	pc/kom
	Heater PCB MK2A	Grelna miza MK2A	1	pc/kom
	Power supply 24V 17.5A	Napajalnik 24V 17.5A	1	pc/kom
	Thermistor	Termistor	1	pc/kom
	Cables	Kabli	1	pc/kom
	Plexy sides	Plexy stranice	1	pc/kom