

# Partlist

## Desktop Filament Extruder E1.6 by ARTME 3D

Version 04.01.2022

This document is published under a CC BY-SA license. (<https://creativecommons.org/licenses/by-sa/4.0/>).

Number	Quantity	Name deutsch	Name english	Specs	parcel
Screws					
SC01	50	Holzschraube	wood screw	2,5x12 mm	1
SC02	11	Holzschraube	wood screw	3x25 mm	1
SC03	7	Zylinderschraube	cap head screw	M3x6	1
SC04	28	Zylinderschraube	cap head screw	M4x10 mm	1
SC05	2	Zylinderschraube	cap head screw	M5x14	1
SC06	4	Senkkopfschraube	countersunk screw	M5x12	1
SC07	1	Zylinderschraube	cap head screw	M5x30	1
SC08	1	Sechskantschraube	hexagon screw	M5x70 mm	1
SC09	1	Flügelmutter	wing nut	M5	1
SC10	12	Hammermutter	hammer nut	M4, Slot 8	1
SC11	17	Mutter	nut	M5	1
SC12	1	Sechskantschraube	hexagon screw	M10 x 50 mm	1
SC13	4	Unterlegscheibe	washer	M4	1
SC14	2	Unterlegscheibe	washer	M5	1
SC15	1	Madenschraube	grub screw	M4x10 mm	1
SC16	1	Sechskantschraube	hexagon screw	M5x40 mm (20mm thread)	1
SC17	1	Holzschraube	wood screw	4x60 mm	1
SC18	2	Senkkopfschraube	countersunk screw	M8x30	1
SC19	2	Flügelschraube	wing screw	M6x35	1
SC20	6	Nutenstein	Slot nut	B Typ, 8mm, M4	1
Spare Parts					
SP01	2	Abdeckkappe	cap	30x30 mm	2
SP02	1	Abdeckkappe	cap	60X30 mm	2
SP03	1	Passfeder	parallel key	4x4x20 mm	2
SP04	4	Gewindestange	threaded rod	M5x117 mm	2
SP05	1	Zahnriemen	timing belt	GT2, 6mm x 500mm	2
SP06	2	Verbinder für Profil	connector for profile	90°	2
SP07	4	Filzgleiter	felt pads	22 x 5 mm	2

SP08	1	PTFE Schlauch-Stück	ptfe tubing-part	4x2x10mm	2
SP09	1	Draht für Sensor Arm	wire	0,6 x 210mm, V2A	2
SP10	1	Kugellager	ball bearing	4x12x4 C3	2
SP11	12	Kabelbinder	cable tie	95mm	2
SP12	2	Montagewinkel	mounting bracket	for Nema 23 with M6 thread	0
SP13	1	Axiallager	thrust bearing	47x30x11mm	2
SP14	14	Kugellager	ball bearing	4x13x5 mm	2
SP15	1	Nagel	nail	4,6x130mm	2
SP16	2	Schlauchschele	hose clamp	40mm diameter	2
SP17	1	Pully	Pully	GT2, 6mm, 20 teeth, 5mm bore	2
SP18	2	Kugellager	ball bearing	10x26x8mm	2
SP19	1	U Kugellager	U ball bearing	FZ0463, 4x13x4 mm	2
SP20	1	Extruder Vorschubrad	Extruder feed wheel	12mm, 38 teeth	2
SP21	1	Druckfeder Puller	Compression spring puller	8x0,8x22 mm	2
SP22	1	Druckfeder Rasten	Compression spring snap	6x0,5x35 mm	2
SP23	1	Zugfeder Schwinge	Tension spring Swing arm	3x0,2x20 mm	2
SP24	1	PTFE Schlauch	ptfe tubing	6x4x630 mm	0
Motors					
MO01	1	Schrittmotor	stepper motor	Nema23, 15:1	0
MO02	4	Adernendhülsen	ferrule	0,5mm²	0
MO03	2	Schrittmotor	stepper motor	Nema17, 39mm	0
MO04	1	Schrittmototreiber Extruder	stepperdriver extruder	Leadshine DMT332T	0
Custom Metal Parts					
CM01.1	1	Extruder Rohr	extruder barrel	16x2x160 (12,05 innen)	3
CM01.2	1	Extruder Rohr mit Rillen	extruder barrel with grooves	16x2x160 (12,05 innen)	3
CM02	1	Extruderschnecke geschliffen	extruder screw grinded	12,0h9 x 215 mm	3
CM03.1	1	Aluminium Heizelement	Aluminium heating element	6mm drilling	3
CM03.2	1	Aluminium Heizelement	Aluminium heating element	3+6mm drilling	3
CM04	1	Schlüsselfeile	warding file	vierkant/square, 100mm long	3
Frame					
FR01	1	Bodenplatte	plate	280x300x15 mm	0
FR02	1	Aluminiumprofil	aluminium profile	30x60x500 mm	0
FR03	1	Aluminiumprofil	aluminium profile	30x30x160 mm	0
FR04	1	Aluminiumprofil	aluminium profile	30x30x120 mm	0
Extruder Barrel					

EB01	1	Adapterscheibe	adapter disk	55x20x3 mm	4
EB02	1	Wellenhalter	shaft holder	SHF16 with M4 thread	4
EB03	2	Heizpatrone	heating cartridge	6x20mm 50W/12V, 53cm Kabel	4
EB04	2	Aderendhülse	ferrule	0,5mm²	4
EB05	1	Thermistor	thermistor	3x15 mm, NTC 100K	4
EB06.0	1	Düse mit M6 Gewinde	nozzle with M6 thread	Verschlussschraube M14x1,5 DIN 910, M6	4
EB06.1	1	3D Druckerdüse PLA/PETG	3D printer nozzle PLA/PETG	M6 thread, E3D-Style, with 1.7mm bore	4
EB07	1	Schmelzefilter	melt filter	16x100mm, Mesh 50 (0,3mm)	4
EB08	2	Teflonband	teflon tape	130mm	4
EB09	1	Biegehilfe Schmelzefilter	bending aid filter	stl	-
EB10	1	Zeichenschablone	sign template	stl	-
EB11	2	Klemme Schraubstock	clamp vice	stl	-
Extruder Drive					
ED01	1	Kupplung Lagerfläche	coupling bearing surface	stl	-
ED02	1	Kupplung	coupling	stl	-
ED03	1	Biegeschablone Gewindestange	bending template threaded rods	stl	-
ED04	1	Einzugszone	feed zone	slt (in ABS od ASA if possible)	-
ED05	1	Trichter Teil1	hopper part1	stl	-
ED06	1	Montagehilfe	mounting tool	stl	-
ED07	1	Trichter Teil 2	hopper part2	stl	-
ED08	1	Trichter Teil 3	hopper part3	stl	-
Spool drive					
SD01	1	Spulenhalterung	Spool holder bracket	stl	-
SD02	1	Abstandshalter	Spacer	stl	-
SD03	1	Spulenhalterscheibe	Spool holder disc	stl	-
SD04	1	Deckel Spulenhalter 1	Spool holder disc lid 1	stl	-
SD05	1	Motorhalter	Motor mount	stl	-
SD06	1	Motorhalter Deckel	Motor mount lid	stl	-
SD07	1	Riemenspanner	Belt tensioner	stl	-
SD08.1	1	Spulen Adapter 50mm	Spool adapter 50mm (option)	stl	-
SD08.2	1	Spulen Adapter 51mm	Spool adapter 51mm (option)	stl	-
SD08.3	1	Spulen Adapter 52mm	Spool adapter 52mm(option)	stl	-
SD08.4	1	Spulen Adapter 53mm	Spool adapter 53mm (option)	stl	-
SD08.5	1	Spulen Adapter 54mm	Spool adapter 54mm (option)	stl	-
SD08.6	1	Spulen Adapter 55mm	Spool adapter 55mm (option)	stl	-

SD08.7	1	Spulen Adapter 56mm	Spool adapter 56mm (option)	stl	-
SD08.8	1	Spulen Adapter 57mm	Spool adapter 57mm (option)	stl	-
SD08.9	1	Spulen Adapter 58mm	Spool adapter 58mm (option)	stl	-
SD08.10	1	Spulen Adapter 59mm	Spool adapter 59mm (option)	stl	-
SD08.11	1	Spulen Adapter 60mm	Spool adapter 60mm (option)	stl	-
SD09	1	Deckel Spulenhalter 2	Spool holder disc lid 2	stl	-
(SD10)	1	Filamentspule (Nicht im Lieferumfang)	Filament spool (Not included)	750g or 1000g (not included in the kit)	-
Filament Guide					
FG01	1	Zacken-Mitnehmer	hook left	stl	-
FG02	1	Zacken-Mitnehmer	hook rechts	stl	-
FG03.1	1	Schwinge für 0,7 bis 1kg Spulen	swing for 0.7 bis 1.0kg spools	stl	-
FG03.2	1	Schwinge für 2,5kg Spulen (Option)	swing for 2.5kg spools (option)	stl	-
FG04	1	Querstrebe 1	crossbrace 1	stl	-
FG05	1	Querstrebe 2	crossbrace 2	stl	-
FG06	1	Heber	lifter	stl	-
FG07	4	Schienen	Rails	stl	-
FG08	1	Schlitten Teil 1	sledge part1	stl	-
FG09	1	Schlitten Teil 2	sledge part2	stl	-
FG10.1	1	Spiralachse für 1,75mm Teil 1	Spiral axis for 1,75mm Part1	stl	-
FG10.2	1	Spiralachse für 1,75mm Teil 2	Spiral axis for 1,75mm Part2	stl	-
FG10.3	1	Spiralachse für 2,85mm Teil 1 (Option)	Spiral axis for 2,85mm Part1	stl	-
FG10.4	1	Spiralachse für 2,85mm Teil 2 (Option)	Spiral axis for 2,85mm Part2	stl	-
FG11	1	Achsenhalter rechts	axis holder right	stl	-
FG12	1	Raste Teil 1	snap part 1	stl	-
FG13	1	Raste Teil 2	snap part 2	stl	-
FG14	1	Pflug	plow	stl	-
FG15	1	Achsenhalter links	axis holder left	stl	-
FG16	2	Stopper	stopper	stl	-
Filament Puller					
FP01	1	Motorhalter Teil 1	motor mount Part 1	stl	-
FP02	1	Motorhalter Teil 2	motor mount Part 2	stl	-
FP03	1	Motorhalter Teil 3	motor mount Part 3	stl	-
FP04	1	Hebel	lever	stl	-
FP05	1	Scheibe	disc	stl	-
FP06	1	Filamentführung	filament guide	stl	-

Electronics					
EL01	1	Arduino	arduino	mega 2560 R3	5
EL02	1	Ramps Board	ramps Board	ramps 1.5	5
EL03	3	Jumper	jumper	2,54mm	5
EL04	1	Schrittmototreiber Wickler	stepperdriver winder	tmc 2208	5
EL05	1	Optischer Endschalter mit Kabel	optical endstop with cable	reprap, 3 Pin	5
EL06	1	Arduino Gehäuse	arduino case	stl	-
EL07	1	LCD Adapter	LCD adapter	for LCD 2004	5
EL08	2	LCD Kabel	LCD cable	500-600mm	5
EL09	2	Klemme	terminal block	Wago 221-415 5pol	5
EL10	1	Halterung Klemme	terminal block holder	stl	-
EL11	1	Treiber Befestigung	driver mount	stl	-
EL12	3	Verbindung Ramps/DMT322T	Connector Ramps/DMT322T	Dupont Jumperwire male-male	5
EL13	2	Leitung Ramps	wire ramps	1,0mm² black, 150mm	5
EL14	2	Leitung Ramps	wire ramps	1,0mm² red, 150mm	5
EL15	1	Leitung DMT322T	wire DMT322T	1,0mm² black, 260mm	5
EL16	1	Leitung DMT322T	wire DMT322T	1,0mm² red, 260mm	5
EL17	6	Adernendhülsen	ferrule	1,0mm²	5
EL18	1	Arduino Deckel	Arduino top	stl	-
EL19	1	Lüfter	fan	24V= or 12V=, 50x50x15mm	5
(EL20)	1	Netzteil (Nicht im Lieferumfang)	power supply (not included)	12VDC 10A (12,5A when 110V net) closed design	-
EL21	1	Y Schrittmotor Kabel	Y stepper cable	4 pin for two Nema 17	5
EL22	1	Zugentlastung	strain relief	stl	-
EL23	1	LCD Display Halter	LCD cover	stl	-
EL24	1	LCD 2004 Display	LCD 2004 Display	Smart Display Controller	5
EL25	2	Halter Flachbandkabel	holder ribbon cable	stl	-
EL26	1	Lüfterhalterung	fan holder	stl	-
EL27	1	Lüfter	fan	12V=, 50x50x15mm	5
EL28	2	Aderendhülse	ferrule	0,25mm²	5
EL29	1	USB Kabel	usb cable	200mm	5
Sensor optical					
SO01	1	Sensor Halterung	sensor holder	stl	-
SO02	1	Sensor Körper	sensor body	stl	-
SO03	1	Sesnorarm	sensor arm	stl	-
SO04	1	Sensor Blende	sensor shutter	stl	-

SO05	1	Biegehilfe	bending aid	stl	-
Insulation					
IN01	1	Abdeckung	cover body	stl	-
IN02	1	Steinwolle	rock wool	135x230x40 mm	0
IN03	1	Deckel für Abdeckung links	cover top left	stl	-
IN04	1	Deckel für Abdeckung rechts	cover top right	stl	-
Tools					
TO01	1	Steckschlüssel	Tubular Socket Wrench	6x7mm	6
TO02	1	Steckschlüssel	Tubular Socket Wrench	8x9mm	6
TO03	1	Steckschlüssel	Tubular Socket Wrench	13x17mm	6
TO04	1	Innensechskantschlüssel	Allen key	1,5mm	6
TO05	1	Innensechskantschlüssel	Allen key	2mm	6
TO06	1	Innensechskantschlüssel	Allen key	3mm	6
TO07	1	Innensechskantschlüssel	Allen key	4mm	6
TO08	1	Innensechskantschlüssel	Allen key	5mm	6