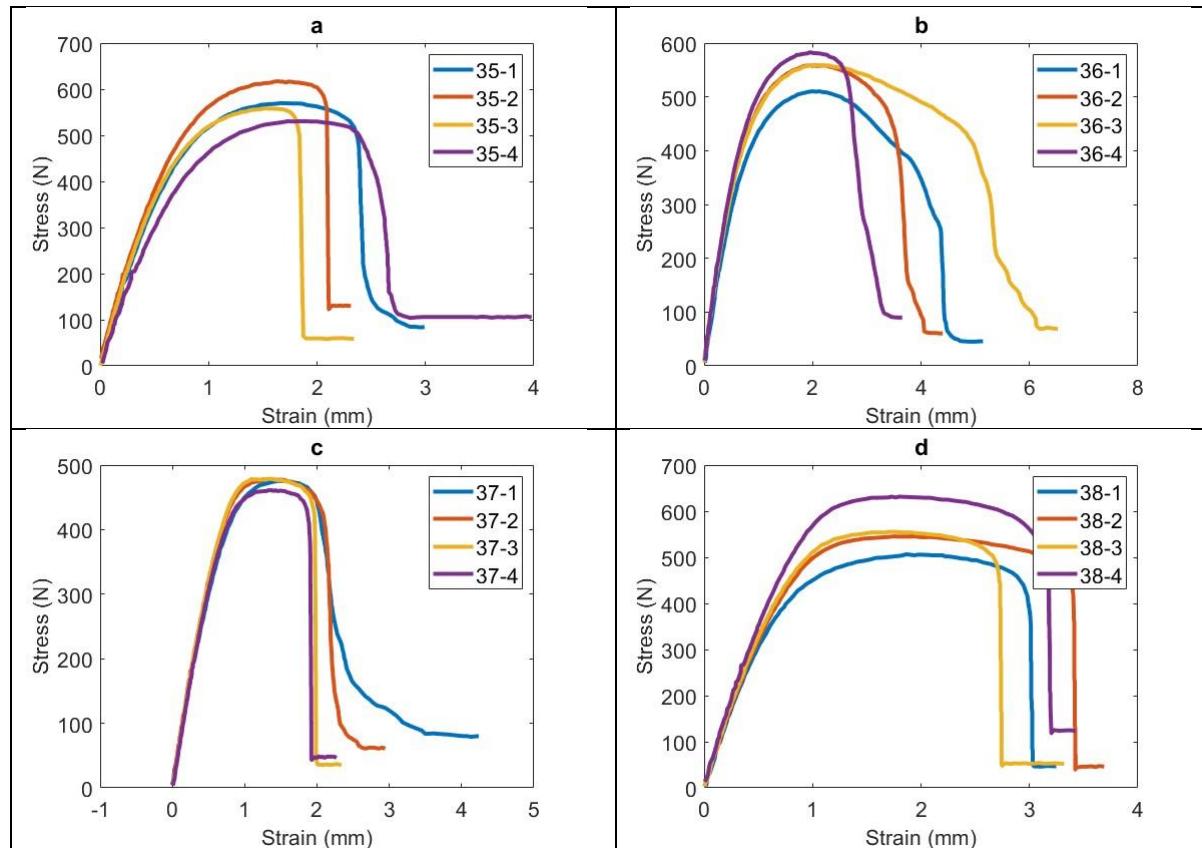
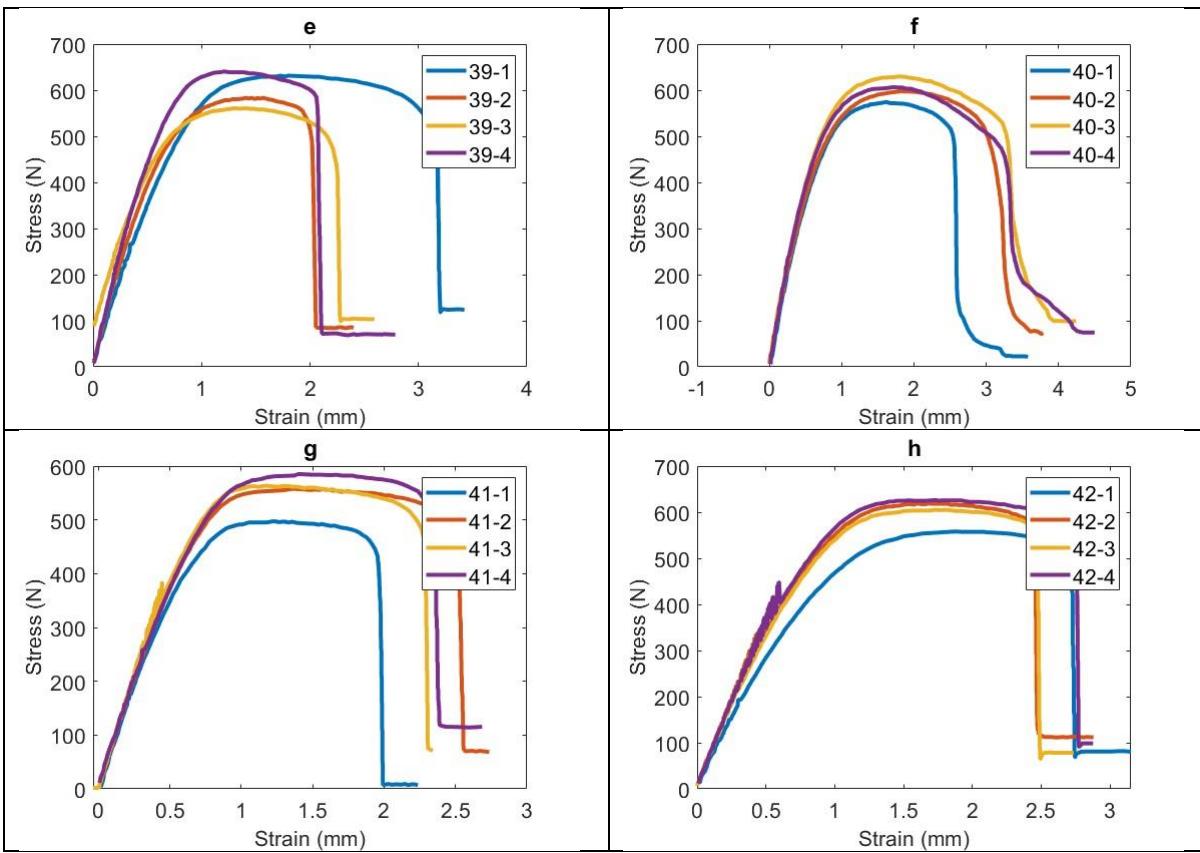
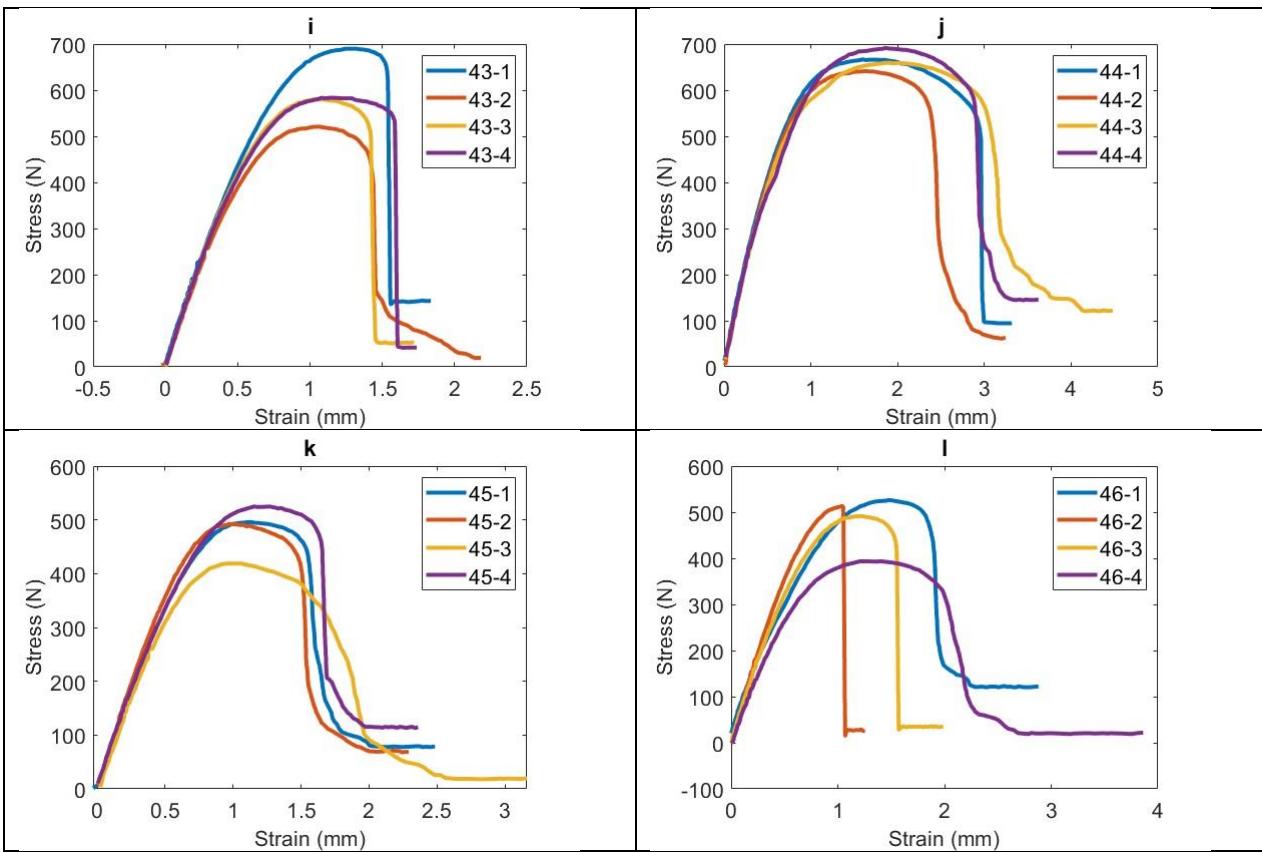
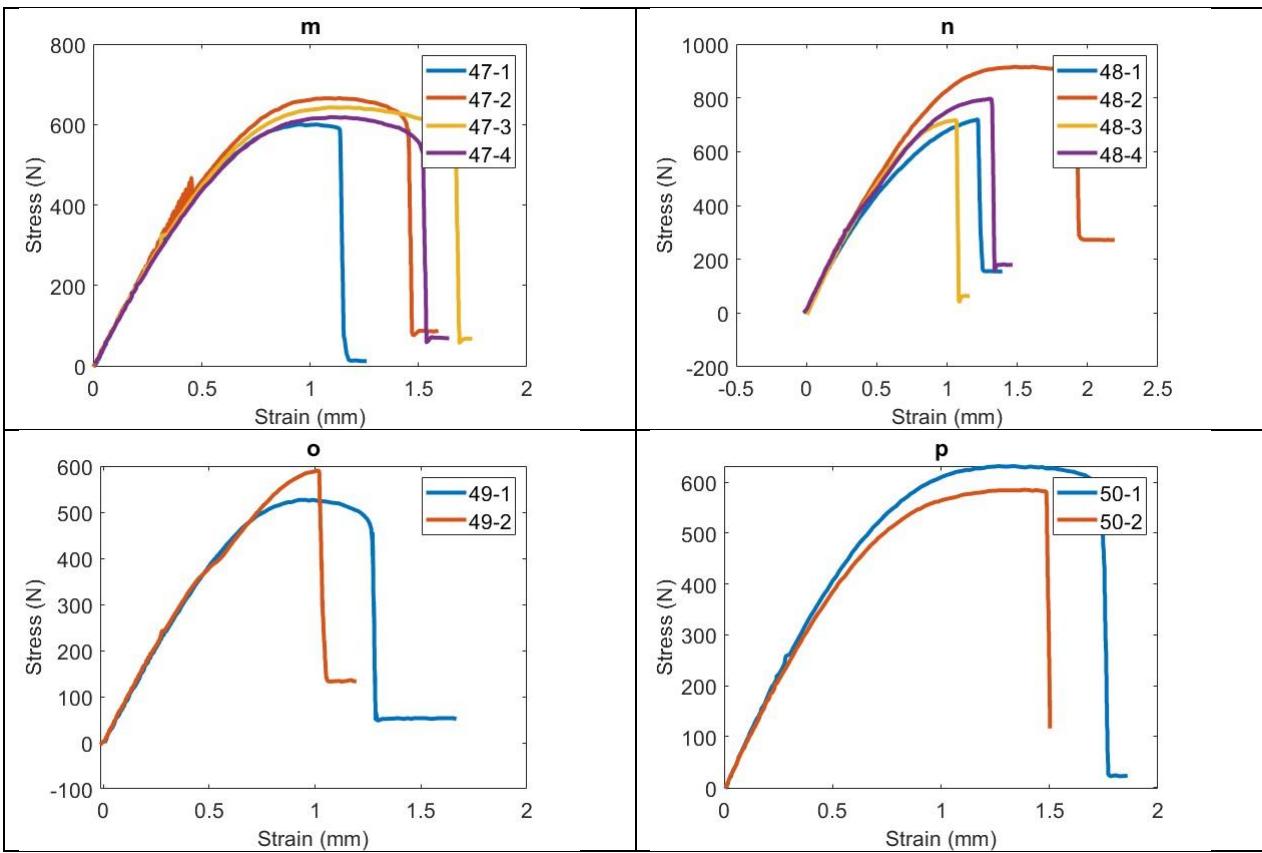


Supplementary Figure S1 Stress-Strain diagrams for the experiments (multiple curves shows the number of samples)









Supplementary Table S1 Pearson correlation matrix confidence

	T	D _N	H _L	α	T · D _N	T · H _L	T · α	D _N · L _H	D _N · α	H _L · α	σ_t	E	σ_f
T	[-0.03,0.44]	[0.18,0.59]	[0.16,0.58]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]
D _N	[0.15,0.57]	[0.00,0.47]	[-0.24,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
H _L	[-0.18,0.31]	[-0.03,0.44]	[0.02,0.48]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]
α	[0.42,0.74]	[0.62,0.84]	[0.49,0.78]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
T · D _N	[0.10,0.54]	[-0.18,0.31]	[-0.23,0.26]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
T · H _L	[-0.24,0.25]	[-0.22,0.28]	[-0.20,0.29]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
T · α	[0.07,0.52]	[-0.09,0.39]	[-0.22,0.27]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
D _N · L _H	[-0.20,0.29]	[-0.20,0.29]	[-0.20,0.29]	[-0.25,0.25]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
D _N · α	[0.12,0.55]	[0.02,0.48]	[0.22,0.62]	[-0.25,0.25]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
H _L · α	[-0.23,0.26]	[-0.22,0.27]	[-0.20,0.29]	[NaN,NaN]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]	[-0.25,0.25]
σ_t	[0.31,0.68]	[0.65,0.86]	[NaN,NaN]	[-0.20,0.29]	[0.22,0.62]	[-0.20,0.29]	[-0.22,0.27]	[-0.20,0.29]	[-0.23,0.26]	[0.49,0.78]	[0.02,0.48]	[-0.24,0.25]	[0.16,0.58]
E	[0.19,0.59]	[NaN,NaN]	[0.65,0.86]	[-0.22,0.27]	[0.02,0.48]	[-0.20,0.29]	[-0.09,0.39]	[-0.22,0.28]	[-0.18,0.31]	[0.62,0.84]	[-0.03,0.44]	[0.00,0.47]	[0.18,0.59]
σ_f	[NaN,NaN]	[0.19,0.59]	[0.31,0.68]	[-0.23,0.26]	[0.12,0.55]	[-0.20,0.29]	[0.07,0.52]	[-0.24,0.25]	[0.10,0.54]	[0.42,0.74]	[-0.18,0.31]	[0.15,0.57]	[-0.03,0.44]

Supplementary Table S2 Specimen table

No.	nozzle type	nozzle diameter (mm)	layer height (mm)	temperature (C°)	shell wall line count (-)	infill orientation (°)
1	MK8	0,6	0,4	220	1	45
2	MK8	0,6	0,4	250	1	45
3	MK8	0,6	0,4	220	1	45
4	MK8	0,6	0,15	220	1	45
5	MK8	0,6	0,15	250	1	45
6	MK8	0,6	0,15	220	5	45
7	MK8	0,6	0,4	220	1	0
8	MK8	0,6	0,15	220	1	0
9	MK8	0,6	0,4	250	1	0
10	MK8	0,6	0,15	250	1	0
11	MK8	0,6	0,4	220	0	0
12	MK8	0,6	0,15	220	0	0
13	MK8	0,6	0,4	220	0	45
14	MK8	0,6	0,15	220	0	45
15	MK8	0,6	0,4	250	0	90
16	MK8	0,6	0,4	250	0	45
17	MK8	0,6	0,15	250	0	0
18	MK8	0,6	0,15	250	0	45
19	MK8	0,3	0,2	220	1	45
20	MK8	0,3	0,1	220	1	0
21	MK8	0,3	0,2	220	1	0
22	MK8	0,3	0,1	220	1	45
23	MK8	0,3	0,1	220	0	0
24	MK8	0,3	0,2	220	0	0

25	MK8	0,3	0,1	220	0	45
26	MK8	0,3	0,2	220	0	45
27	MK8	0,3	0,2	250	1	45
28	MK8	0,3	0,1	250	1	0
29	MK8	0,3	0,2	250	1	0
30	MK8	0,3	0,1	250	1	45
31	MK8	0,3	0,1	250	0	0
32	MK8	0,3	0,2	250	0	0
33	MK8	0,3	0,2	250	0	45
34	MK8	0,3	0,1	250	0	45
35	V6	0,4	0,1	220	0	0
36	V6	0,4	0,25	220	0	0
37	V6	0,4	0,1	220	0	45
38	V6	0,4	0,25	220	0	45
39	V6	0,4	0,1	250	0	0
40	V6	0,4	0,25	250	0	0
41	V6	0,4	0,1	250	0	45
42	V6	0,4	0,25	250	0	45
43	V6	0,8	0,2	220	0	0
44	V6	0,8	0,5	220	0	0
45	V6	0,8	0,5	220	0	45
46	V6	0,8	0,5	220	0	45
47	V6	0,8	0,2	250	0	0
48	V6	0,8	0,5	250	0	0
49	V6	0,8	0,2	250	0	45
50	V6	0,8	0,5	250	0	45

Supplementary Config file: all parameters

```
# generated by SuperSlicer 2.5.59 on 2023-05-15 at 12:40:43 UTC

allow_empty_layers = 0

avoid_crossing_not_first_layer = 1

avoid_crossing_perimeters = 1

avoid_crossing_perimeters_max_detour = 0

bed_custom_model =

bed_custom_texture =

bed_shape = 0x0,400x0,400x400,0x400

bed_temperature = 90

before_layer_gcode = ;BEFORE_LAYER_CHANGE\n;[layer_z]\nG92 E0\n;if layer_num == 2 }SET_FILAMENT_SENSOR SENSOR=my_sensor\nENABLE=1{endif}\n\n

between_objects_gcode =

bottom_fill_pattern = monotonic

bottom_solid_layers = 0

bottom_solid_min_thickness = 0

bridge_acceleration = 0

bridge_angle = 0

bridge_fan_speed = 0
```

bridge_fill_pattern = rectilinear
bridge_flow_ratio = 80%
bridge_internal_acceleration = 0
bridge_internal_fan_speed = 0
bridge_overlap = 90%
bridge_overlap_min = 80%
bridge_speed = 70%
bridge_speed_internal = 150%
bridge_type = nozzle
bridged_infill_margin = 200%
brim_acceleration = 0
brim_ears = 0
brim_ears_detection_length = 1
brim_ears_max_angle = 125
brim_ears_pattern = concentric
brim_inside_holes = 0
brim_separation = 0
brim_speed = 120%
brim_width = 5
brim_width_interior = 0

```
chamber_temperature = 0
clip_multipart_objects = 1
color_change_gcode = M600
colorprint_heights =
compatible_printers_condition_cummulative = printer_model=~/.*VC3_.*;;
complete_objects = 0
complete_objects_one_brim = 0
complete_objects_one_skirt = 0
complete_objects_sort = object
cooling_tube_length = 5
cooling_tube_retraction = 91.5
curve_smoothing_angle_concave = 0
curve_smoothing_angle_convex = 0
curve_smoothing_cutoff_dist = 2
curve_smoothing_precision = 0
default_acceleration = 4500
default_filament_profile = "Generic PLA @RatRig"
default_print_profile = 0.20mm NORMAL @RatRig
default_speed = 40
deretract_speed = 45
```

```
disable_fan_first_layers = 3
dont_support_bridges = 1
draft_shield = disabled
duplicate_distance = 6
end_filament_gcode = "; Filament-specific end gcode \n;END gcode for filament\n"
end_gcode = END_PRINT\n
enforce_full_fill_volume = 0
enforce_retract_first_layer = 1
ensure_vertical_shell_thickness = 1
exact_last_layer_height = 0
external_infill_margin = 150%
external_perimeter_acceleration = 10%
external_perimeter_cut_corners = 0%
external_perimeter_extrusion_spacing =
external_perimeter_extrusion_width = 100%
external_perimeter_fan_speed = 0
external_perimeter_overlap = 100%
external_perimeter_speed = 80%
external_perimeters_first = 0
external_perimeters_hole = 1
```

```
external_perimeters_nothole = 1
external_perimeters_vase = 0
extra_loading_move = -2
extra_perimeters = 0
extra_perimeters_odd_layers = 0
extra_perimeters_overhangs = 0
extruder_clearance_height = 25
extruder_clearance_radius = 45
extruder_colour = ""
extruder_fan_offset = 0%
extruder_offset = 0x0
extruder_temperature_offset = 0
extrusion_axis = E
extrusion_multiplier = 0.92
extrusion_spacing = 0
extrusion_width =
fan_always_on = 0
fan_below_layer_time = 10
fan_kickstart = 0
fan_percentage = 0
```

```
fan_speedup_overhangs = 1
fan_speedup_time = 0
feature_gcode =
filament_colour = #3A80CA
filament_cooling_final_speed = 3.4
filament_cooling_initial_speed = 2.2
filament_cooling_moves = 4
filament_cooling_zone_pause = 0
filament_cost = 60
filament_custom_variables = ""
filament_density = 1.24
filament_deretract_speed = nil
filament_diameter = 1.75
filament_dip_extraction_speed = 70
filament_dip_insertion_speed = 33
filament_enable_toolchange_part_fan = 0
filament_enable_toolchange_temp = 0
filament_load_time = 0
filament_loading_speed = 28
filament_loading_speed_start = 3
```

```
filament_max_overlap = 100%
filament_max_speed = 0
filament_max_volumetric_speed = 4
filament_max_wipe_tower_speed = 0
filament_melt_zone_pause = 0
filament_minimal_purge_on_wipe_tower = 15
filament_notes = ""
filament_ramming_parameters = "120 100 6.6 6.8 7.2 7.6 7.9 8.2 8.7 9.4 9.9 10.0| 0.05 6.6 0.45 6.8 0.95 7.8 1.45 8.3 1.95 9.7 2.45 10 2.95 7.6 3.45 7.6 3.95
7.6 4.45 7.6 4.95 7.6"
filament_retract_before_travel = nil
filament_retract_before_wipe = nil
filament_retract_layer_change = nil
filament_retract_length = 2
filament_retract_lift = nil
filament_retract_lift_above = nil
filament_retract_lift_below = nil
filament_retract_restart_extra = nil
filament_retract_speed = nil
filament_seam_gap = nil
filament_settings_id = "Esun ePA12 @RatRig - Copy20230313"
```

```
filament_shrink = 100%
filament_skinnydip_distance = 31
filament_soluble = 0
filament_spool_weight = 0
filament_toolchange_delay = 0
filament_toolchange_part_fan_speed = 50
filament_toolchange_temp = 200
filament_type = NYLON
filament_unload_time = 0
filament_unloading_speed = 90
filament_unloading_speed_start = 100
filament_use_fast_skinnydip = 0
filament_use_skinnydip = 0
filament_vendor = Esun
filament_wipe = 1
filament_wipe_advanced_pigment = 0.5
filament_wipe_extra_perimeter = nil
filament_wipe_inside_depth = nil
filament_wipe_inside_end = nil
filament_wipe_inside_start = nil
```

```
filament_wipe_only_crossing = nil  
filament_wipe_speed = nil  
fill_angle = 0  
fill_angle_increment = 0  
fill_density = 100%  
fill_pattern = rectilinear  
fill_smooth_distribution = 10%  
fill_smooth_width = 50%  
fill_top_flow_ratio = 100%  
first_layer_acceleration = 10%  
first_layer_acceleration_over_raft = 0  
first_layer_bed_temperature = 90  
first_layer_extrusion_spacing =  
first_layer_extrusion_width = 100%  
first_layer_flow_ratio = 100%  
first_layer_height = 0.3  
first_layer_infill_speed = 0  
first_layer_min_speed = 20  
first_layer_size_compensation = -0.1  
first_layer_size_compensation_layers = 1
```

```
first_layer_speed = 35%
first_layer_speed_over_raft = 30
first_layer_temperature = 285
full_fan_speed_layer = 0
fuzzy_skin = none
fuzzy_skin_point_dist = 200%
fuzzy_skin_thickness = 150%
gap_fill_acceleration = 0
gap_fill_enabled = 1
gap_fill_extension = 0
gap_fill_flow_match_perimeter = 0%
gap_fill_last = 0
gap_fill_max_width = 0
gap_fill_min_area = 100%
gap_fill_min_length = 0
gap_fill_min_width = 0
gap_fill_overlap = 100%
gap_fill_speed = 80%
gcode_comments = 0
gcode_filename_illegal_char = [<>:"/\\"|?*]
```

```
gcode_flavor = klipper
gcode_label_objects = 1
gcode_precision_e = 4
gcode_precision_xyz = 3
gcode_resolution = 0
gcode_substitutions =
high_current_on_filament_swap = 0
hole_size_compensation = 0
hole_size_threshold = 100
hole_to_polyhole = 0
hole_to_polyhole_threshold = 0.01
hole_to_polyhole_twisted = 1
host_type = octoprint
infill_acceleration = 4500
infill_anchor = 600%
infill_anchor_max = 5
infill_connection = connected
infill_connection_bottom = connected
infill_connection_bridge = connected
infill_connection_solid = connected
```

```
infill_connection_top = connected
infill_dense = 0
infill_dense_algo = autoenlarged
infill_every_layers = 1
infill_extruder = 1
infill_extrusion_spacing =
infill_extrusion_width = 100%
infill_first = 0
infill_only_where_needed = 0
infill_overlap = 18%
infill_speed = 250%
inherits_cummulative = "0.20mm NORMAL @RatRig";"Esun ePA-CF @RatRig";"RatRig V-Core-3-400"
init_z_rotate = 0
interface_shells = 0
ironing = 0
ironing_acceleration = 0
ironing_angle = -1
ironing_flowrate = 15%
ironing_spacing = 0.1
ironing_speed = 15
```

```
ironing_type = top  
layer_gcode = ;AFTER_LAYER_CHANGE\n;[layer_z]\nlayer_height = 0.3  
lift_min = 0  
machine_limits_usage = time_estimate_only  
machine_max_acceleration_e = 5000  
machine_max_acceleration_extruding = 9000  
machine_max_acceleration_retracting = 9000  
machine_max_acceleration_travel = 9000,1250  
machine_max_acceleration_x = 9000  
machine_max_acceleration_y = 9000  
machine_max_acceleration_z = 100  
machine_max_feedrate_e = 60  
machine_max_feedrate_x = 500  
machine_max_feedrate_y = 500  
machine_max_feedrate_z = 10  
machine_max_jerk_e = 5  
machine_max_jerk_x = 5  
machine_max_jerk_y = 5  
machine_max_jerk_z = 0.4
```

```
machine_min_extruding_rate = 0
machine_min_travel_rate = 0
max_fan_speed = 0
max_gcode_per_second = 1500
max_layer_height = 0.5
max_print_height = 400
max_print_speed = 500
max_speed_reduction = 90%
max_volumetric_speed = 12
milling_after_z = 200%
milling_diameter =
milling_extra_size = 150%
milling_post_process = 0
milling_speed = 30
milling_toolchange_end_gcode =
milling_toolchange_start_gcode =
milling_z_lift =
min_bead_width = 85%
min_fan_speed = 0
min_feature_size = 0.1
```

min_layer_height = 0.2
min_length = 0.035
min_print_speed = 15
min_skirt_length = 20
min_width_top_surface = 100%
mmu_segmented_region_max_width = 0
model_precision = 0.0001
no_perimeter_unsupported_algo = noperi
notes =
nozzle_diameter = 0.8
only_one_perimeter_first_layer = 0
only_one_perimeter_top = 0
only_one_perimeter_top_other_algo = 0
only_retract_when_crossing_perimeters = 0
ooze_prevention = 0
output_filename_format = {input_filename_base}_{layer_height}mm_{filament_type[0]}_{print_time}.gcode
over_bridge_flow_ratio = 100%
overhangs_acceleration = 0
overhangs_reverse = 0
overhangs_reverse_threshold = 250%

```
overhangs_speed = 100%
overhangs_width = 75%
overhangs_width_speed = 55%
parking_pos_retraction = 92
pause_print_gcode = M601
perimeter_acceleration = 4500
perimeter_bonding = 0%
perimeter_extruder = 1
perimeter_extrusion_spacing =
perimeter_extrusion_width = 100%
perimeter_generator = classic
perimeter_loop = 0
perimeter_loop_seam = rear
perimeter_overlap = 100%
perimeter_round_corners = 0
perimeter_speed = 120%
perimeters = 0
physical_printer_settings_id =
post_process =
print_custom_variables =
```

```
print_extrusion_multiplier = 100%
print_host =
print_retract_length = -1
print_retract_lift = -1
print_settings_id = NYLON RATRIG20230110probatest04and08nozzle
print_temperature = 0
printer_custom_variables =
printer_model = VC3_400
printer_notes = Don't remove the following keywords! These keywords are used in the "compatible printer" condition of the print and filament profiles to link the particular print and filament profiles to this printer
profile.\nPRINTER_VENDOR_RatRig\nPRINTER_MODEL_VCORE\nPRINTER_HAS_Directextruder\nE3DV6
printer_settings_id = NYLON0.8mmRatRig V-Core-3-400first
printer_technology = FFF
printer_variant = 0.4
printer_vendor =
printhonst_apikey =
printhonst_cafile =
printhonst_port =
raft_contact_distance = 0.1
raft_expansion = 3
raft_first_layer_density = 90%
```

```
raft_first_layer_expansion = 6
raft_interface_layer_height = 0
raft_layer_height = 0
raft_layers = 0
remaining_times = 1
remaining_times_type = m73m117
resolution = 0.0125
resolution_internal = 0.2
retract_before_travel = 3
retract_before_wipe = 0%
retract_layer_change = 0
retract_length = 1
retract_length_toolchange = 1
retract_lift = 0.2
retract_lift_above = 0
retract_lift_below = 0
retract_lift_first_layer = 1
retract_lift_top = "All surfaces"
retract_restart_extra = 0
retract_restart_extra_toolchange = 0
```

```
retract_speed = 45
seam_angle_cost = 80%
seam_gap = 15%
seam_position = cost
seam_travel_cost = 20%
silent_mode = 0
single_extruder_multi_material = 0
single_extruder_multi_material_priming = 1
skirt_brim = 0
skirt_distance = 20
skirt_distance_from_brim = 1
skirt_extrusion_width = 110%
skirt_height = 1
skirts = 1
slice_closing_radius = 0.049
slicing_mode = regular
slowdown_below_layer_time = 10
small_perimeter_max_length = 20
small_perimeter_min_length = 6
small_perimeter_speed = 80%
```

```
solid_fill_pattern = rectilinear
solid_infill_acceleration = 0
solid_infill_below_area = 0
solid_infill_every_layers = 0
solid_infill_extruder = 1
solid_infill_extrusion_spacing =
solid_infill_extrusion_width = 100%
solid_infill_overlap = 100%
solid_infill_speed = 80%
solid_over_perimeters = 2
spiral_vase = 0
standby_temperature_delta = -5
start_filament_gcode = "; Filament gcode\nSET_GCODE_OFFSET Z=0.0\n\n{if nozzle_diameter[0]==0.4} SET_PRESSURE_ADVANCE ADVANCE=0.045{elseif
nozzle_diameter[0]==0.6}SET_PRESSURE_ADVANCE ADVANCE=0.02{endif}\n\n"
start_gcode = START_PRINT EXTRUDER_TEMP=[first_layer_temperature] BED_TEMP=[first_layer_bed_temperature]
start_gcode_manual = 0
support_material = 0
support_material_acceleration = 0
support_material_angle = 0
support_material_angle_height = 0
```

```
support_material_auto = 0
support_material_bottom_contact_distance = 0.2
support_material_bottom_interface_layers = -1
support_material_buildplate_only = 1
support_material_closing_radius = 2
support_material_contact_distance = 50%
support_material_contact_distance_type = filament
support_material_enforce_layers = 0
support_material_extruder = 0
support_material_extrusion_width = 80%
support_material_interface_acceleration = 0
support_material_interface_angle = 90
support_material_interface_angle_increment = 0
support_material_interface_contact_loops = 0
support_material_interface_extruder = 0
support_material_interface_fan_speed = -1
support_material_interface_layer_height = 0
support_material_interface_layers = 2
support_material_interface_pattern = rectilinear
support_material_interface_spacing = 0.2
```

```
support_material_interface_speed = 100%
support_material_layer_height = 0
support_material_pattern = rectilinear
support_material_spacing = 2
support_material_speed = 80%
support_material_style = snug
support_material_synchronize_layers = 0
support_material_threshold = 65
support_material_with_sheath = 0
support_material_xy_spacing = 60%
temperature = 285
template_custom_gcode =
thin_perimeters = 80%
thin_perimeters_all = 20%
thin_walls = 1
thin_walls_acceleration = 0
thin_walls_merge = 1
thin_walls_min_width = 33%
thin_walls_overlap = 50%
thin_walls_speed = 100%
```

```
threads = 8
thumbnails = 32x32,400x300
thumbnails_color = #018aff
thumbnails_custom_color = 0
thumbnails_end_file = 0
thumbnails_format = PNG
thumbnails_with_bed = 1
time_cost = 0
time_estimation_compensation = 100%
time_start_gcode = 20
time_toolchange = 30
tool_name = ""
toolchange_gcode =
top_fan_speed = 0
top_fill_pattern = monotonic
top_infill_extrusion_spacing =
top_infill_extrusion_width = 100%
top_solid_infill_acceleration = 0
top_solid_infill_speed = 60%
top_solid_layers = 0
```

```
top_solid_min_thickness = 0
travel_acceleration = 4500
travel_deceleration_use_target = 1
travel_speed = 400
travel_speed_z = 0
use_firmware_retraction = 0
use_relative_e_distances = 1
use_volumetric_e = 0
variable_layer_height = 1
wall_add_middle_threshold = 75%
wall_distribution_count = 1
wall_split_middle_threshold = 50%
wall_transition_angle = 10
wall_transition_filter_deviation = 25%
wall_transition_length = 0.4
wipe = 0
wipe_advanced = 0
wipe_advanced_algo = linear
wipe_advanced_multiplier = 60
wipe_advanced_nozzle_melted_volume = 120
```

```
wipe_extra_perimeter = 0
wipe_inside_depth = 50%
wipe_inside_end = 1
wipe_inside_start = 0
wipe_into_infill = 0
wipe_into_objects = 0
wipe_only_crossing = 1
wipe_speed = 0
wipe_tower = 0
wipe_tower_bridging = 10
wipe_tower_brim_width = 2
wipe_tower_no_sparse_layers = 0
wipe_tower_rotation_angle = 0
wipe_tower_width = 60
wipe_tower_x = 170
wipe_tower_y = 140
wiping_volumes_extruders = 70,70
wiping_volumes_matrix = 0
xy_inner_size_compensation = 0
xy_size_compensation = 0
```

`z_offset = -0.05`

`z_step = 0.005`