9. 3D Print the Skateboard parts: Drivetrain

teslarcs.com/assembly-manuals/cybertruck/4-13-3d-print-the-cybertruck-parts/9-3d-print-the-skateboard-parts-drivetrain/

Difficulty

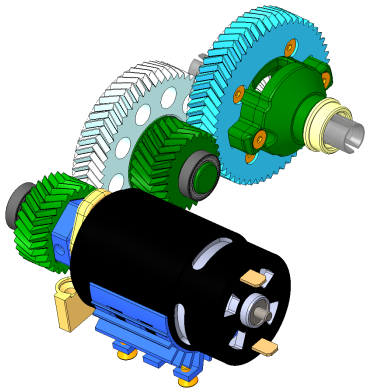
Moderate

Steps

9

Get entire manual as PDF

Downloading soon



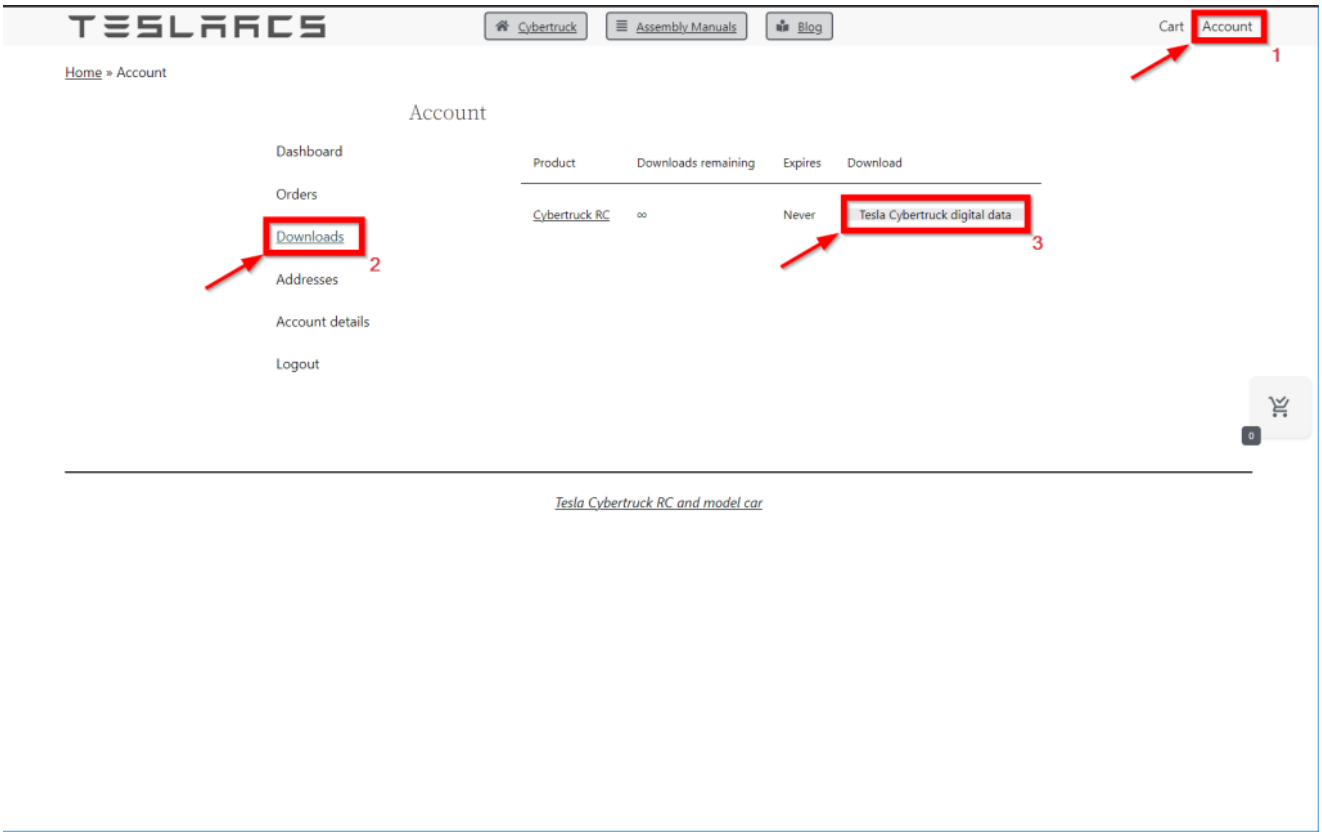
Step 1: Important information!

Important Information / Downloadable Files:

If you purchased the Cybertruck digital data from our Shop than you will be able to download from your Account:

- All ***.stl*** files,
  (which contain the Cybertruck 3D geometry),
- PrusaSilcer ***.3mf*** files,
  (which contain the 3D Printing orientations and printing settings),

- and ***.gcode*** files for *Prusa Mini* and *Prusa Mk3S+.*
  (which contain the necessary information for the 3D printer to print the geometry)



Tesla Cybertruck RC and model car

Important Information / Slicer software:

Our suggestion for 3D Printing slicer software:

> The Freeware Prusa Slicer last stable version: https://help.prusa3d.com/downloads

Alternative 3D Printing slicer:

> Any other slicer what you like, but than you should check the basic 3D Printing parameters from our manual in this and the next chapter.

Important Information / 3D Printer:

Our suggestion for 3D Printer:

> Prusa Mk3s+: https://www.prusa3d.com/product/original-prusa-i3-mk3s-kit-3

Alternative 3D Printer:

- Prusa Mini: https://www.prusa3d.com/product/original-prusa-mini-kit-2/
- Any other FDM 3D Printer, with 180×180 build plate at least

Step 2: SK_SHAFT_AND_GEAR_1

Attention!

The Brushed motors generate lot of **heat**. This two component are very close to the motor, therefore at least the SK_SHAFT_FOR_GEAR_1 file has to print from PETG, or from any other heat resistance filament (ASA, PC, ABS).

Performance edition
If you use the suggested metal extension part on the motor shaft, you should print the “sk_gear_1_performance_v1” file.

Printing files for RWD:

- 1X SK_SHAFT_FOR_GEAR_1 (PETG, or other heat resistance filament)
- 1X SK_GEAR_1 (PLA)

Printing files for AWD:

- 2X SK_GEAR_1 (PLA)
- 2X SK_SHAFT_FOR_GEAR_1 (PETG, or other heat resistance filament)

Printing files for RWD / **Performance edition**:

1X sk_gear_1_performance_v1 (PETG, or other heat resistance filament)

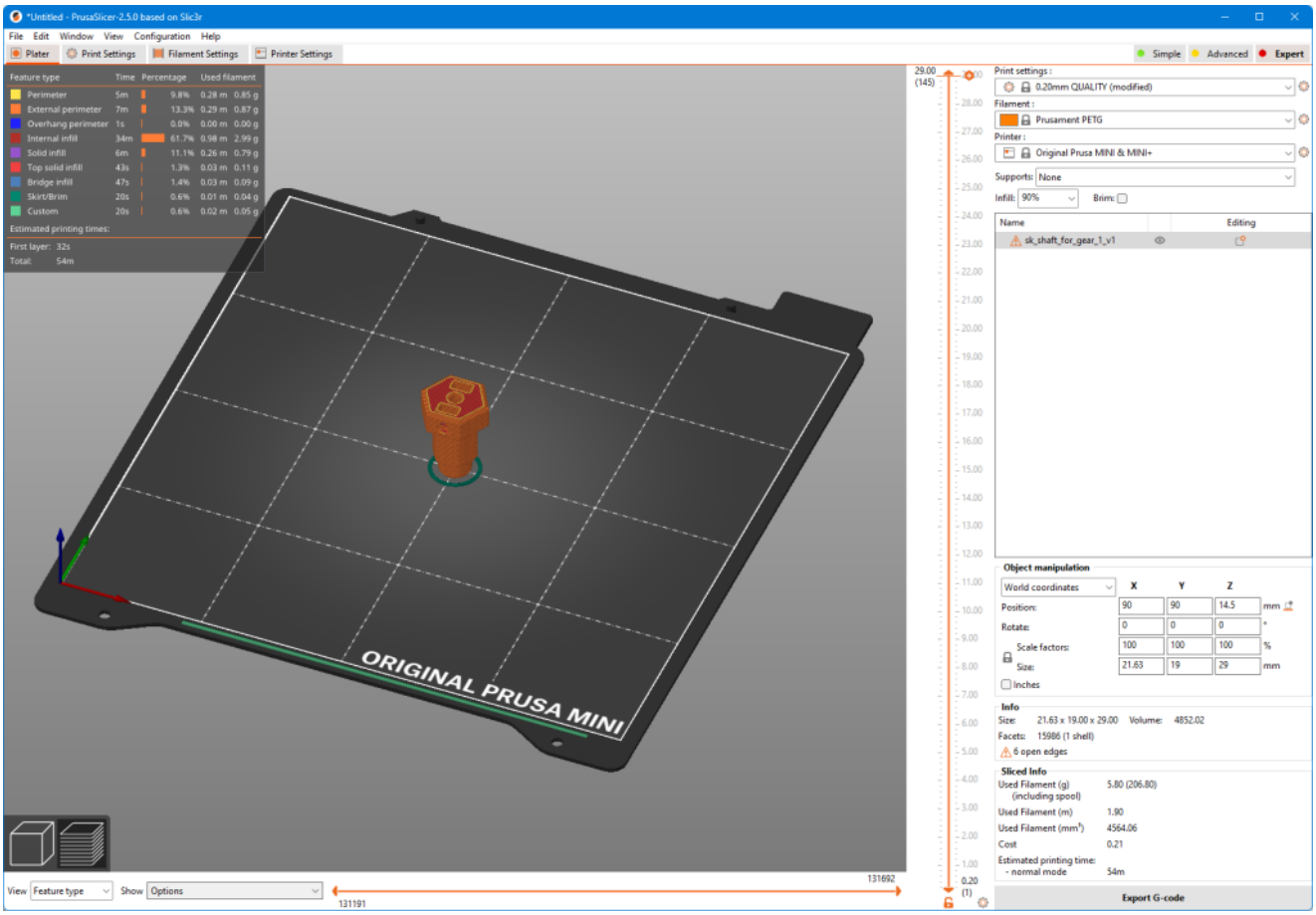
Printing files for AWD / **Performance edition**:

2X sk_gear_1_performance_v1 (PETG, or other heat resistance filament)

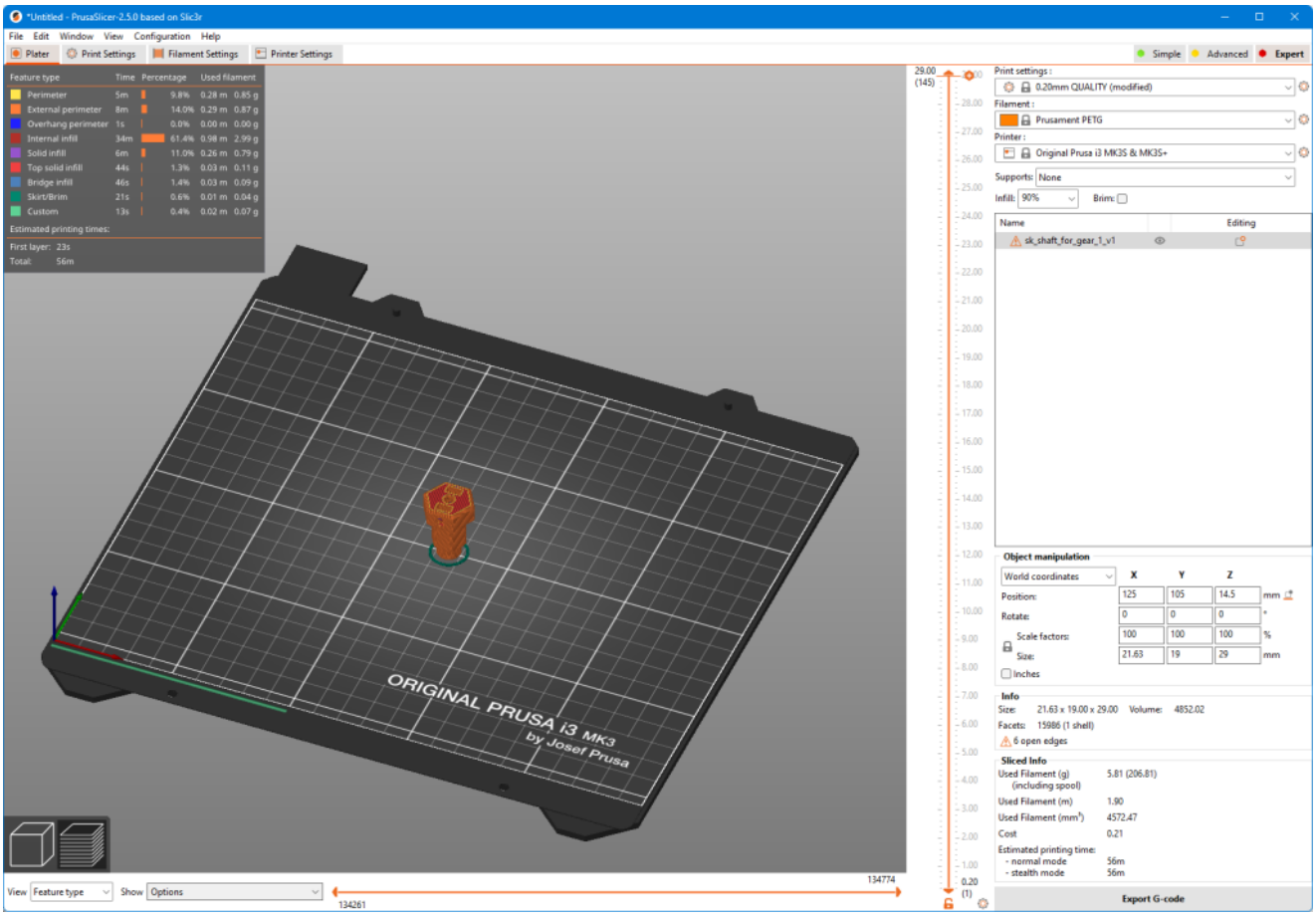
Printing parameters:

- **Filament material:** PLA / PETG
- **Color**: Any color / Black⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill: 15% – 90%**

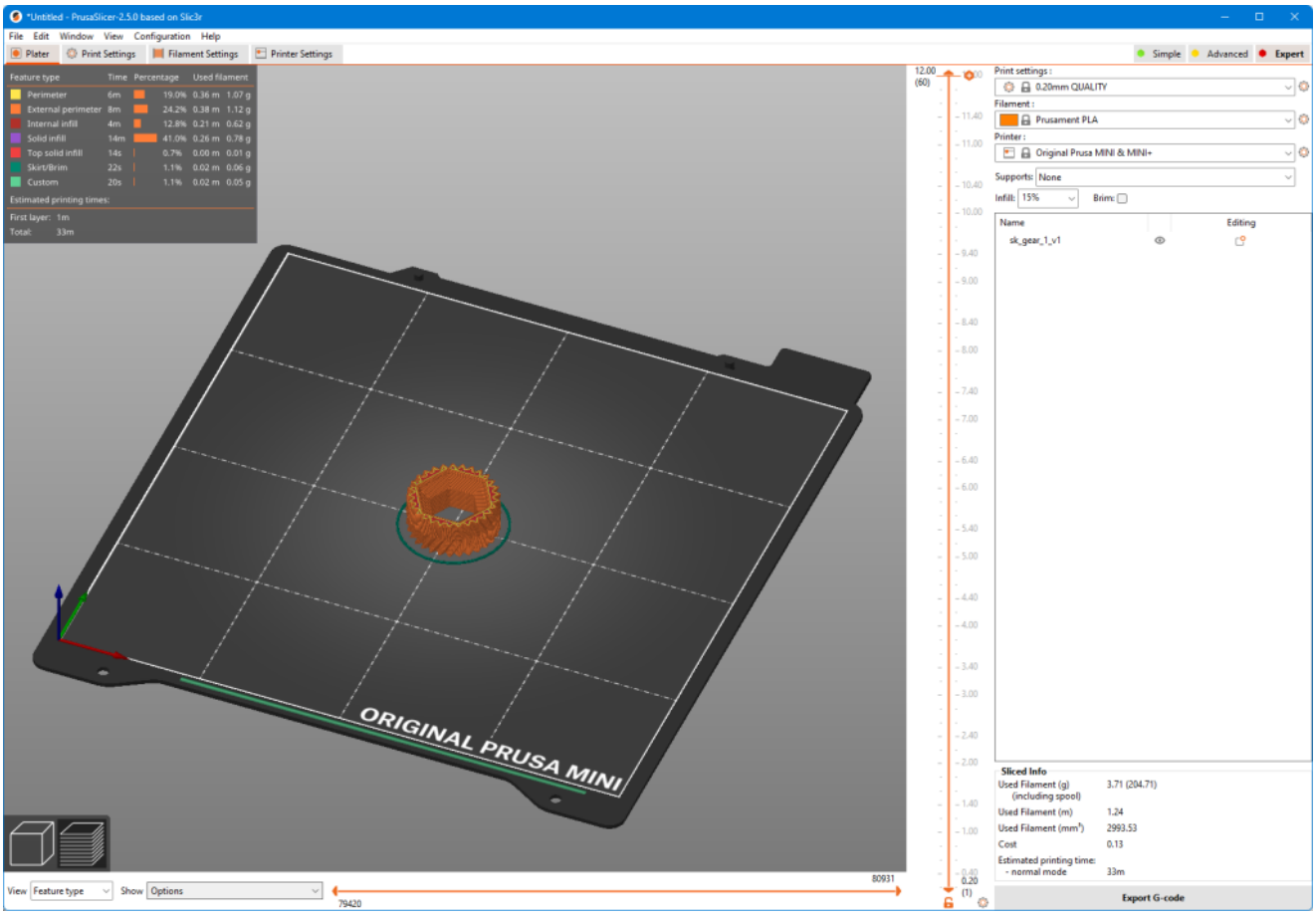
- **Filament weight:** ca. 10 g / 20 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above



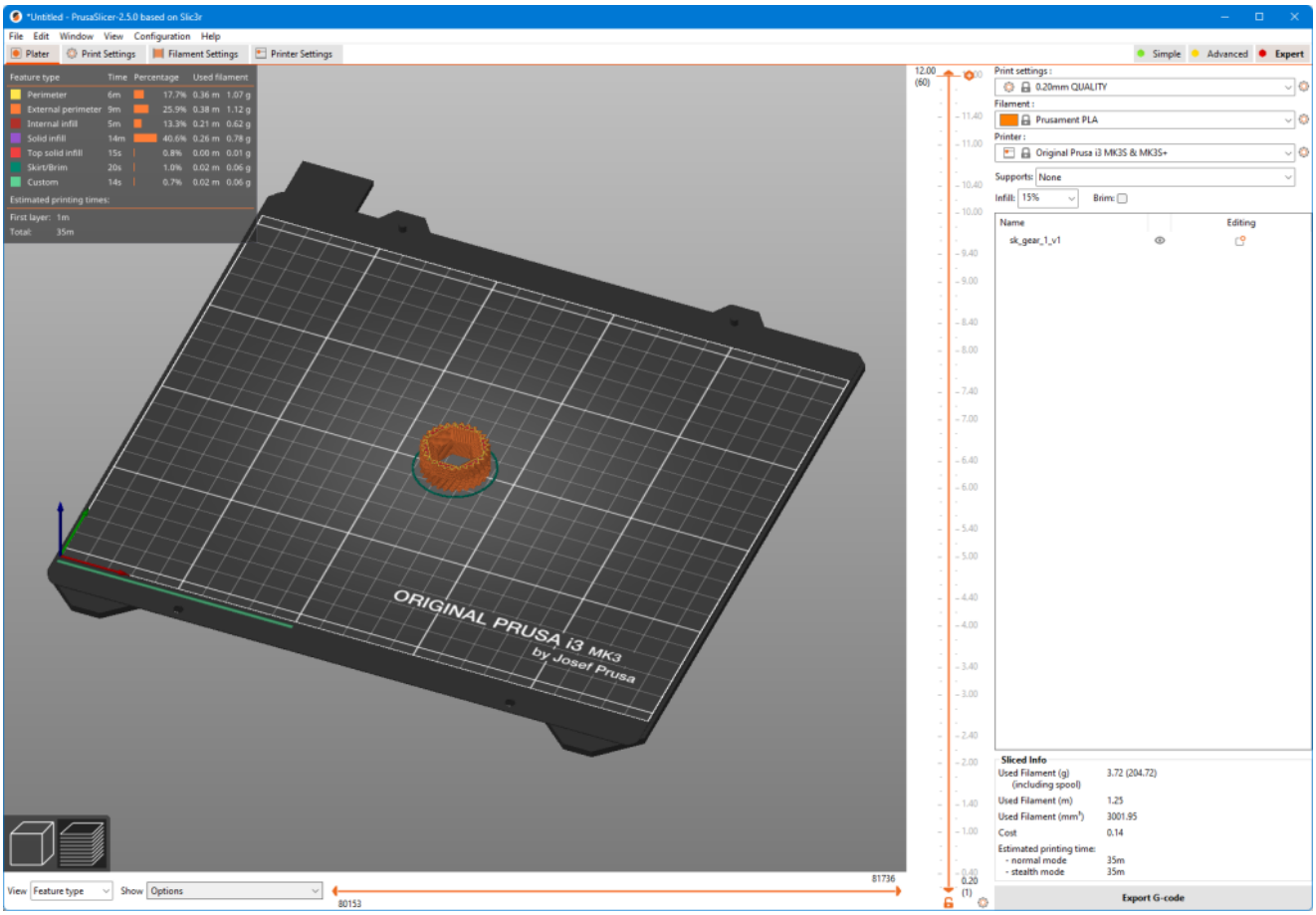
PETG – 90% Infill



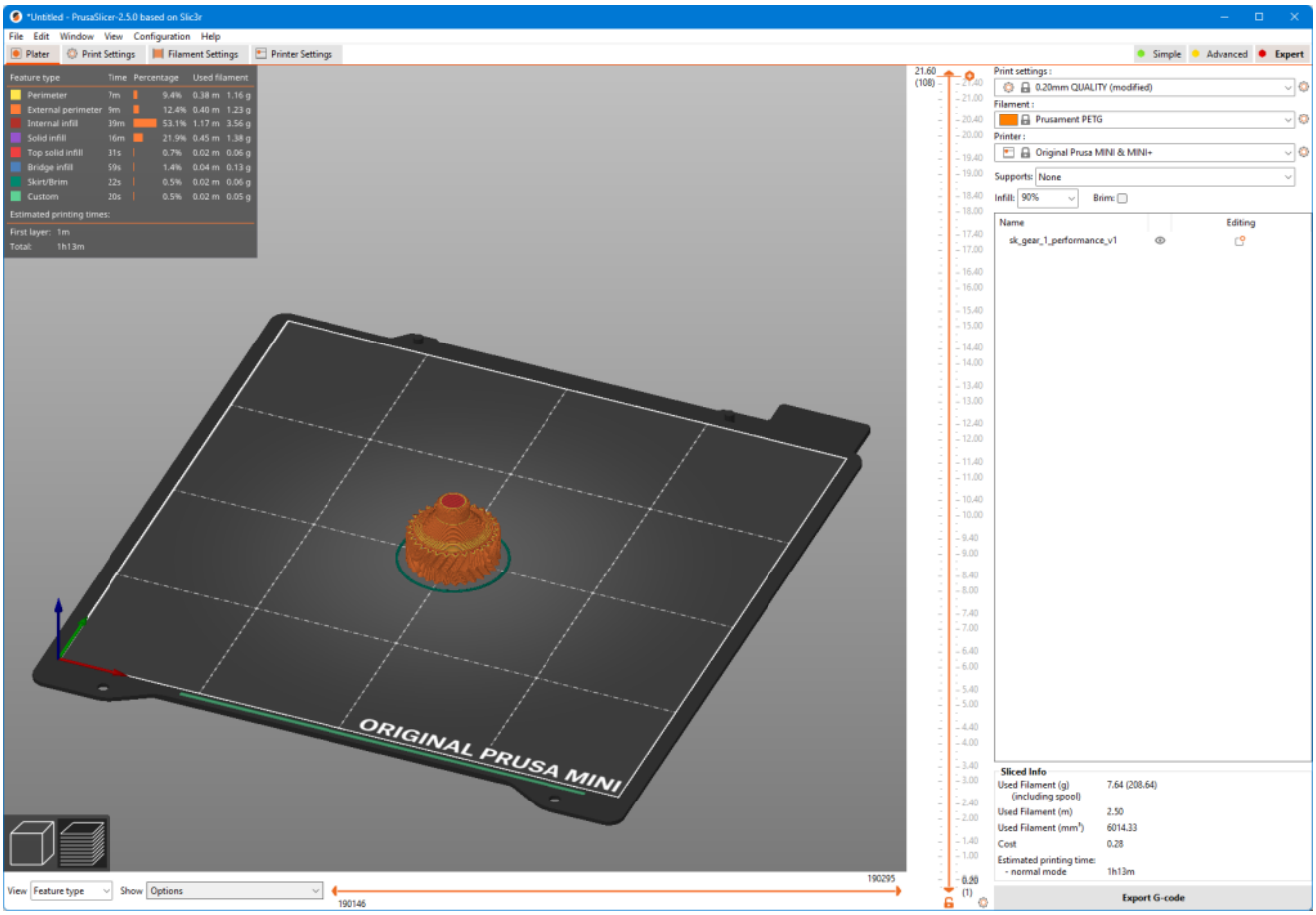
PETG – 90% Infill



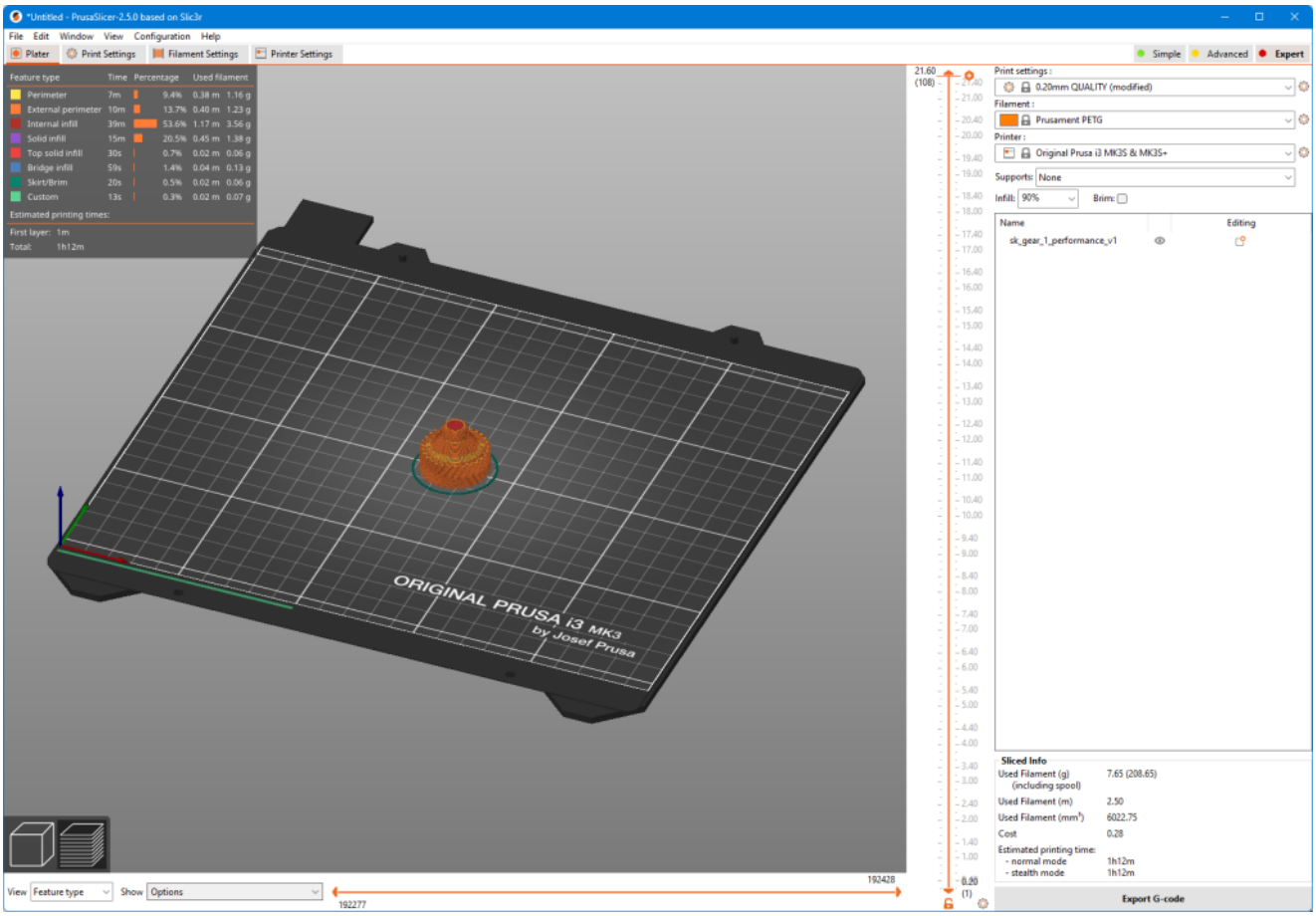
PLA – 15% Infill



PLA – 15% Infill



Performance Version, PETG – 90% Infill



Performance Version, PETG – 90% Infill

Step 3: SK_GEAR_2

Printing files for RWD:

1X SK_GEAR_2

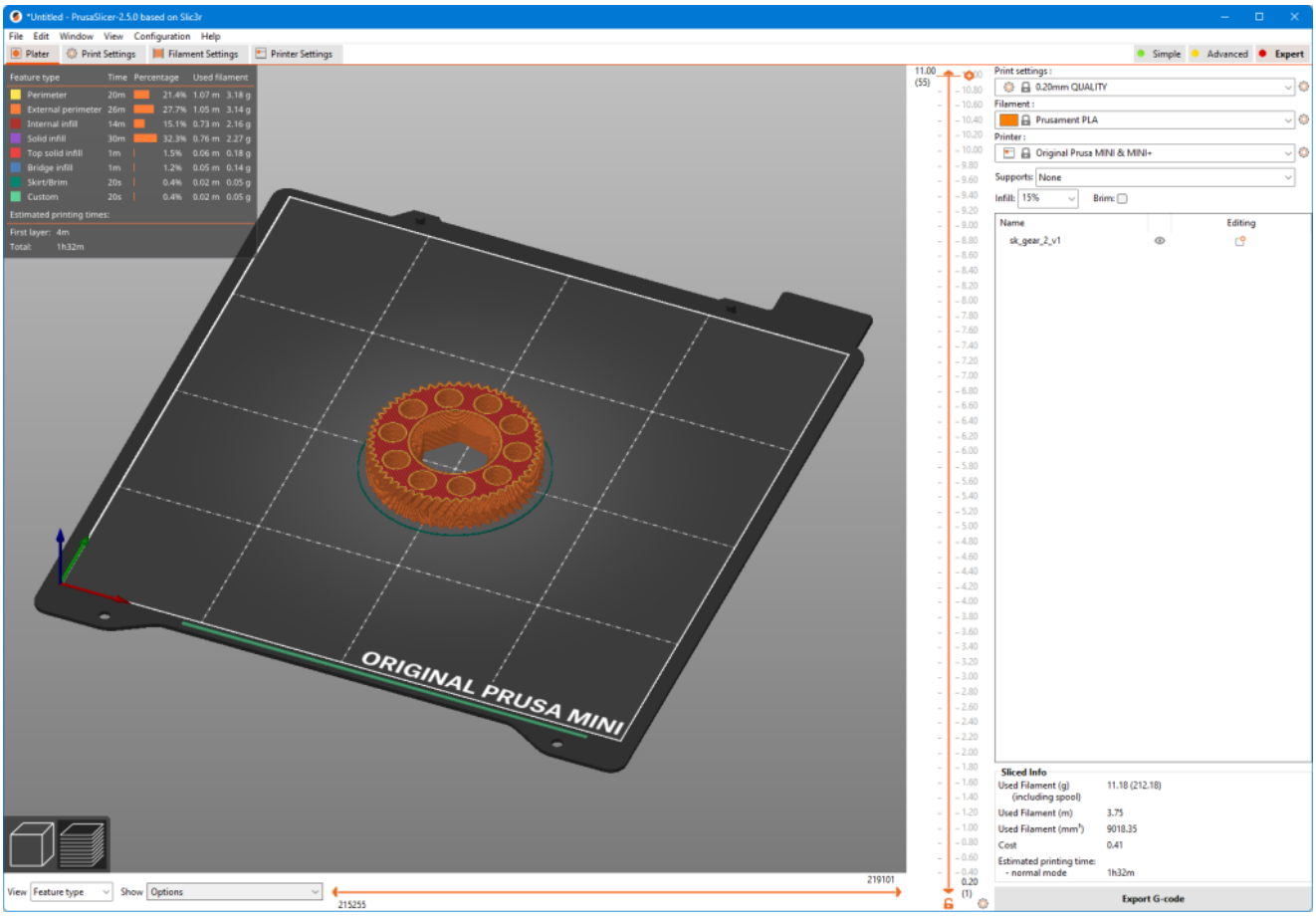
Printing files for AWD:

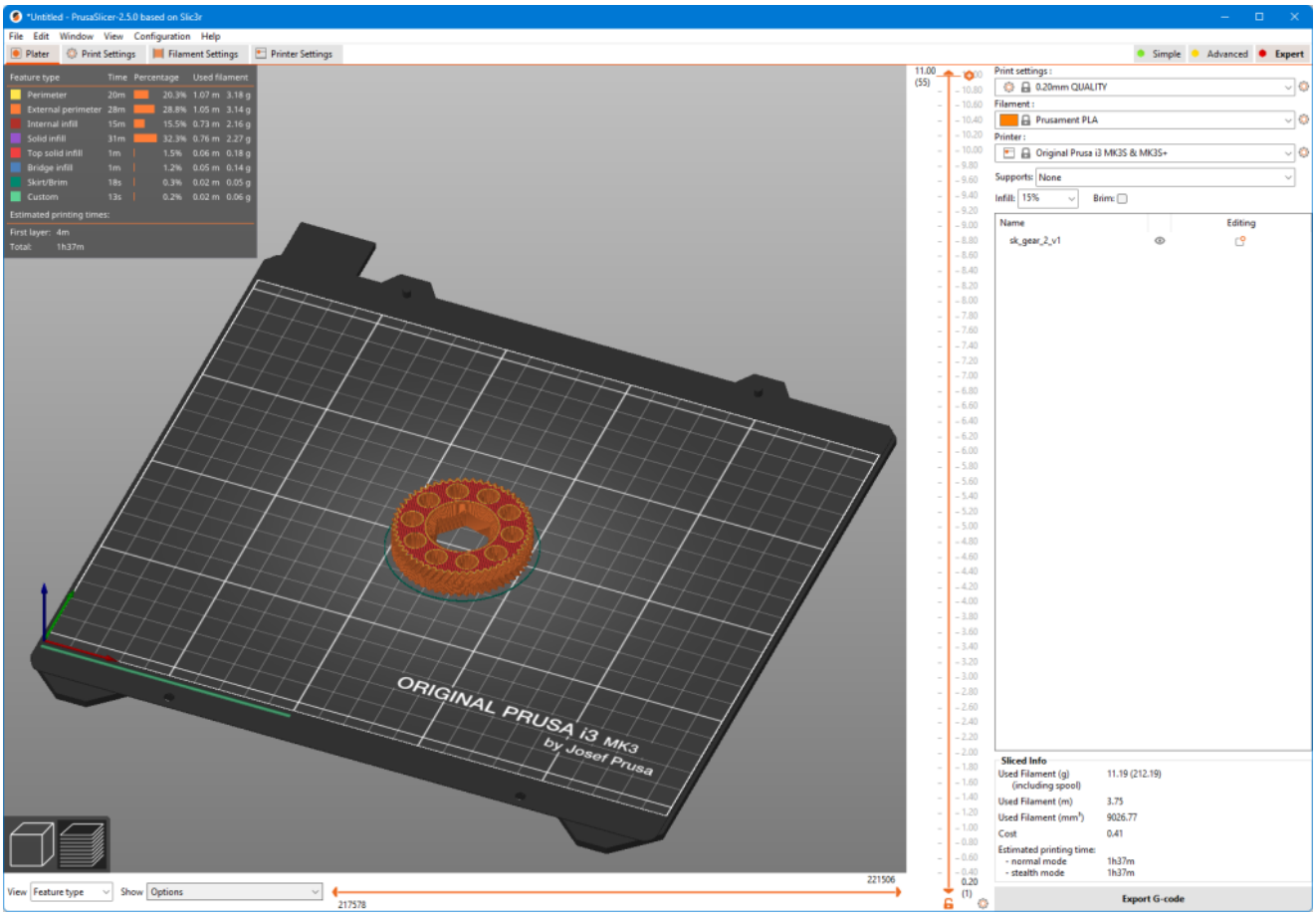
2X SK_GEAR_2

Printing parameters:

- **Filament material:** PLA
- **Color**: Any color / Black ●
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill:** 15%

- **Filament weight:** ca. 12 g / 24 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 20m 21.4% 1.07 m 3.18 g
External perimeter 26m 27.7% 1.05 m 3.14 g
Internal infill 14m 15.1% 0.73 m 2.16 g
Solid infill 30m 32.3% 0.76 m 2.27 g
Top solid infill 1m 1.5% 0.06 m 0.18 g
Bridge infill 1m 1.2% 0.05 m 0.14 g
Skirt/Brim 20s 0.4% 0.02 m 0.05 g
Custom 20s 0.4% 0.02 m 0.05 g
Estimated printing times:
First layer: 4m
Total: 1h32m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_gear_2_v1
Sliced Info
Used Filament (g) (including spool) 11.18 (212.18)
Used Filament (m) 3.75
Used Filament (mm³) 9018.35
Cost 0.41
Estimated printing time:
- normal mode 1h32m
Export G-code
View Feature type
Show Options
219101
215255


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 20m 20.3% 1.07 m 3.18 g
External perimeter 28m 28.8% 1.05 m 3.14 g
Internal infill 15m 15.5% 0.73 m 2.16 g
Solid infill 31m 32.3% 0.76 m 2.27 g
Top solid infill 1m 1.5% 0.06 m 0.18 g
Bridge infill 1m 1.2% 0.05 m 0.14 g
Skirt/Brim 18s 0.3% 0.02 m 0.05 g
Custom 13s 0.2% 0.02 m 0.06 g
Estimated printing times:
First layer: 4m
Total: 1h37m
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_gear_2_v1
Sliced Info
Used Filament (g) (including spool) 11.19 (212.19)
Used Filament (m) 3.75
Used Filament (mm³) 9026.77
Cost 0.41
Estimated printing time:
- normal mode 1h37m
- stealth mode 1h37m
Export G-code
View Feature type
Show Options
221506
217578

Step 4: SK_GEAR_3

Information!

In the Gear_3 you can install an **optional** mechanical torque damper if you have some flexible filament. With this mechanical solution you can reduce the stress on the drive-train's components when the Cybertruck RC suddenly change direction of travel.

Printing files for RWD (**without** torque damper)**:**

1X SK_GEAR_3 (PLA)

Printing files for AWD (**without** torque damper):

2X SK_GEAR_3 (PLA)

Printing files for RWD (**with** torque damper):

- 1X SK_GEAR_3_FOR_TORQUE_DAMPER (PLA)
- 1x SK_TORQUE_DAMPER (FLEX, TPU, or other flexible filament)

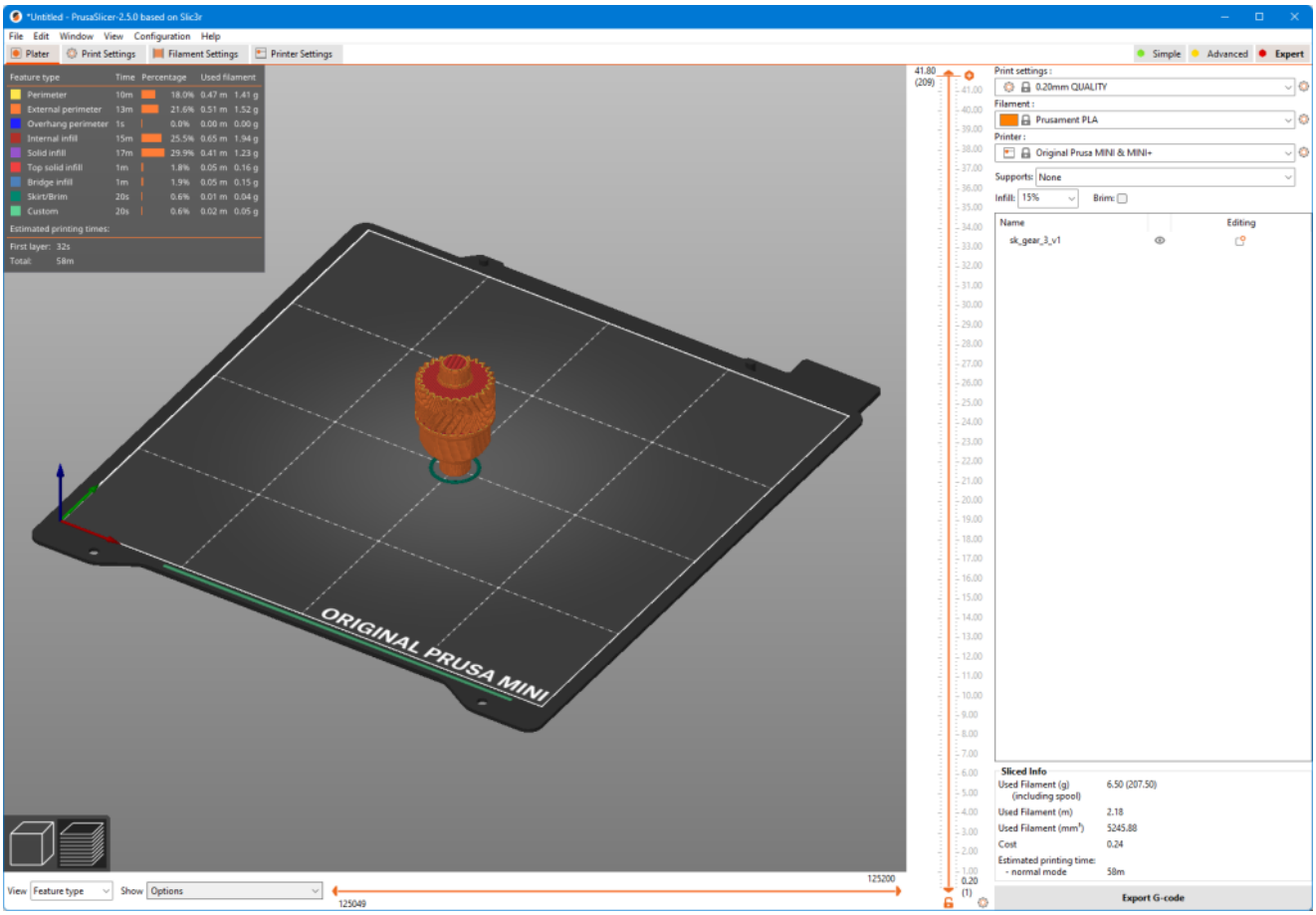
Printing files for AWD (**with** torque damper):

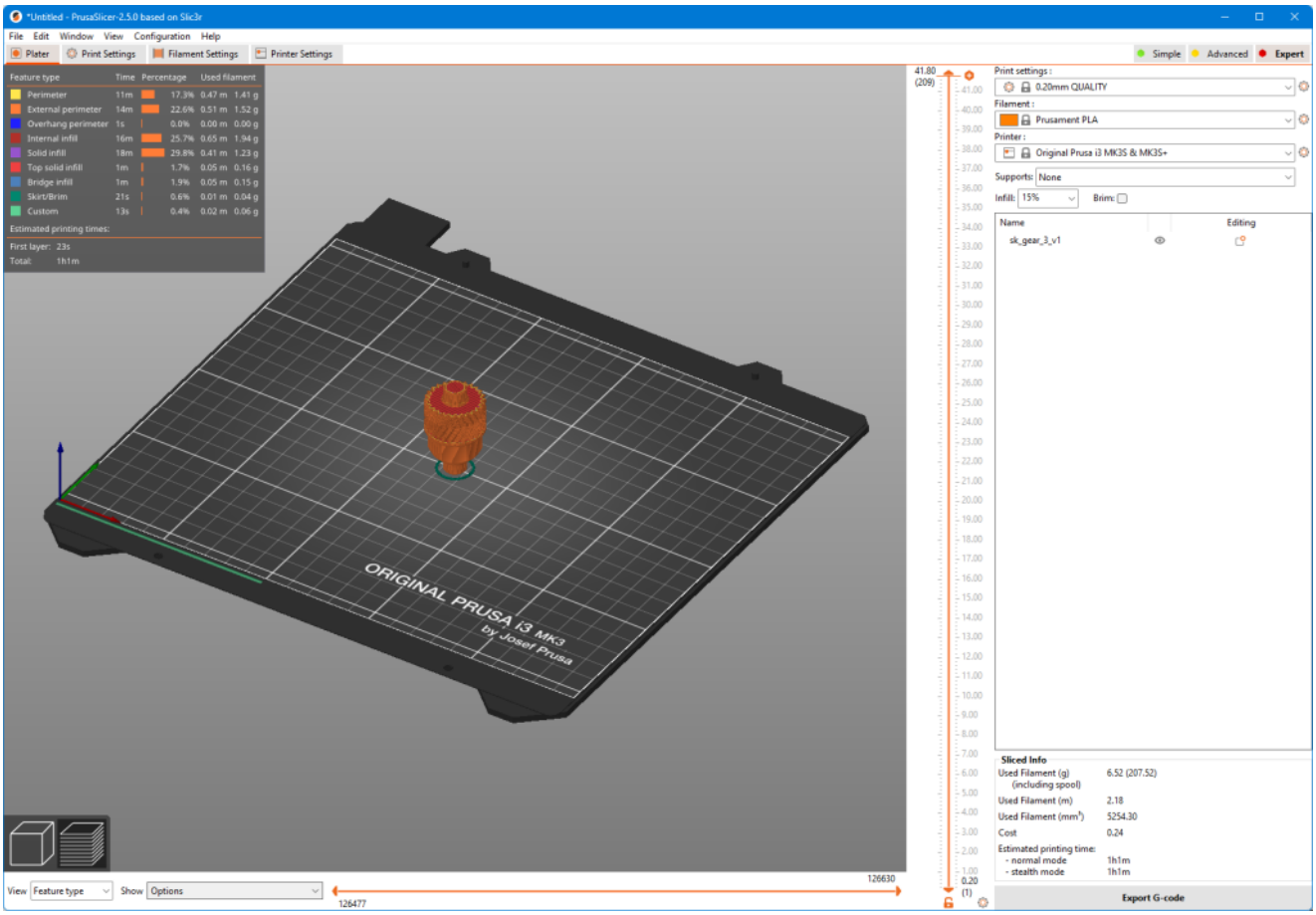
- 2X SK_GEAR_3_FOR_TORQUE_DAMPER (PLA)
- 2x SK_TORQUE_DAMPER (FLEX, TPU, or other flexible filament)

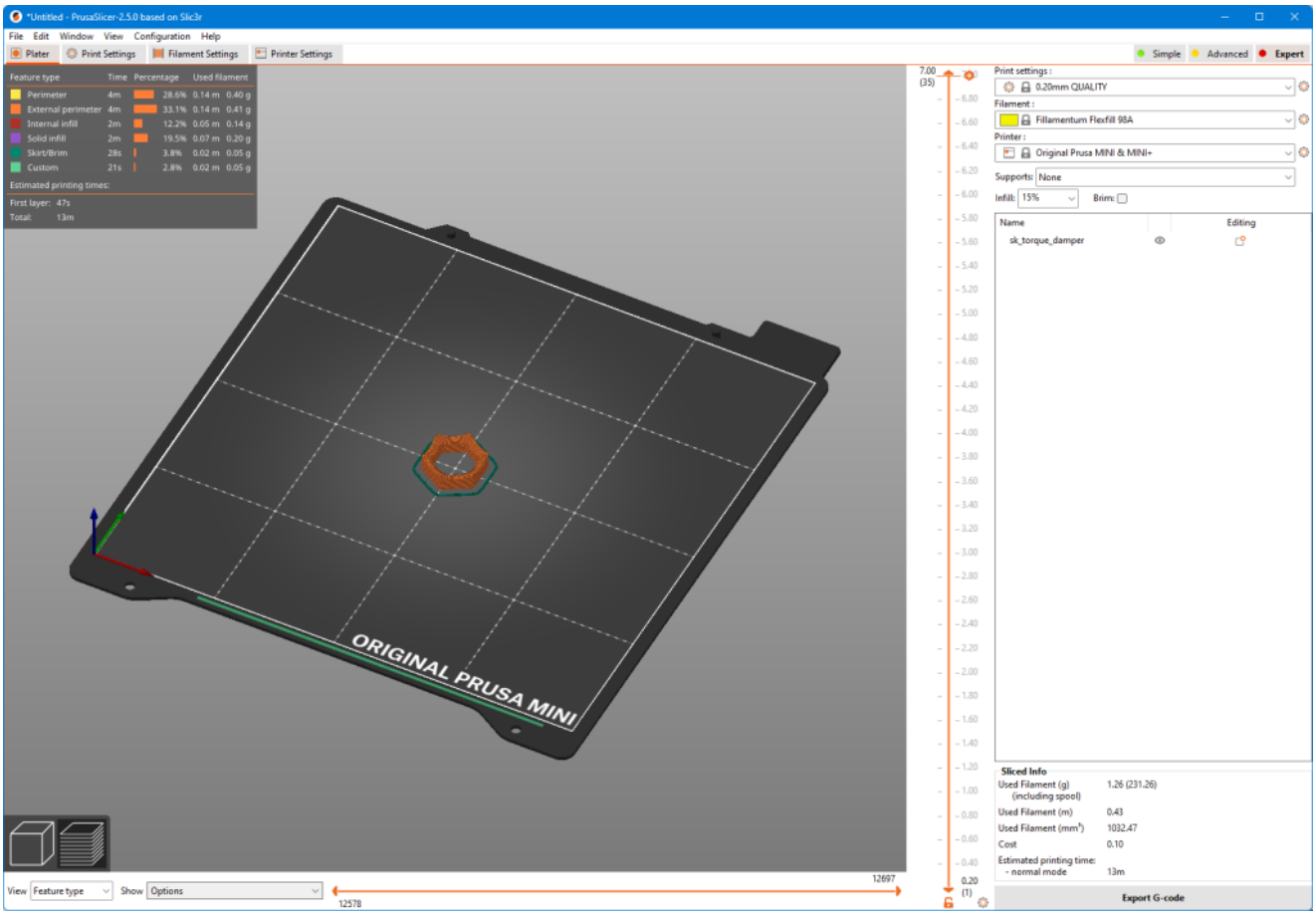
Printing parameters:

- **Filament material:** PLA / FLEX-TPU
- **Color**: Any color / Black ⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill:** 15%

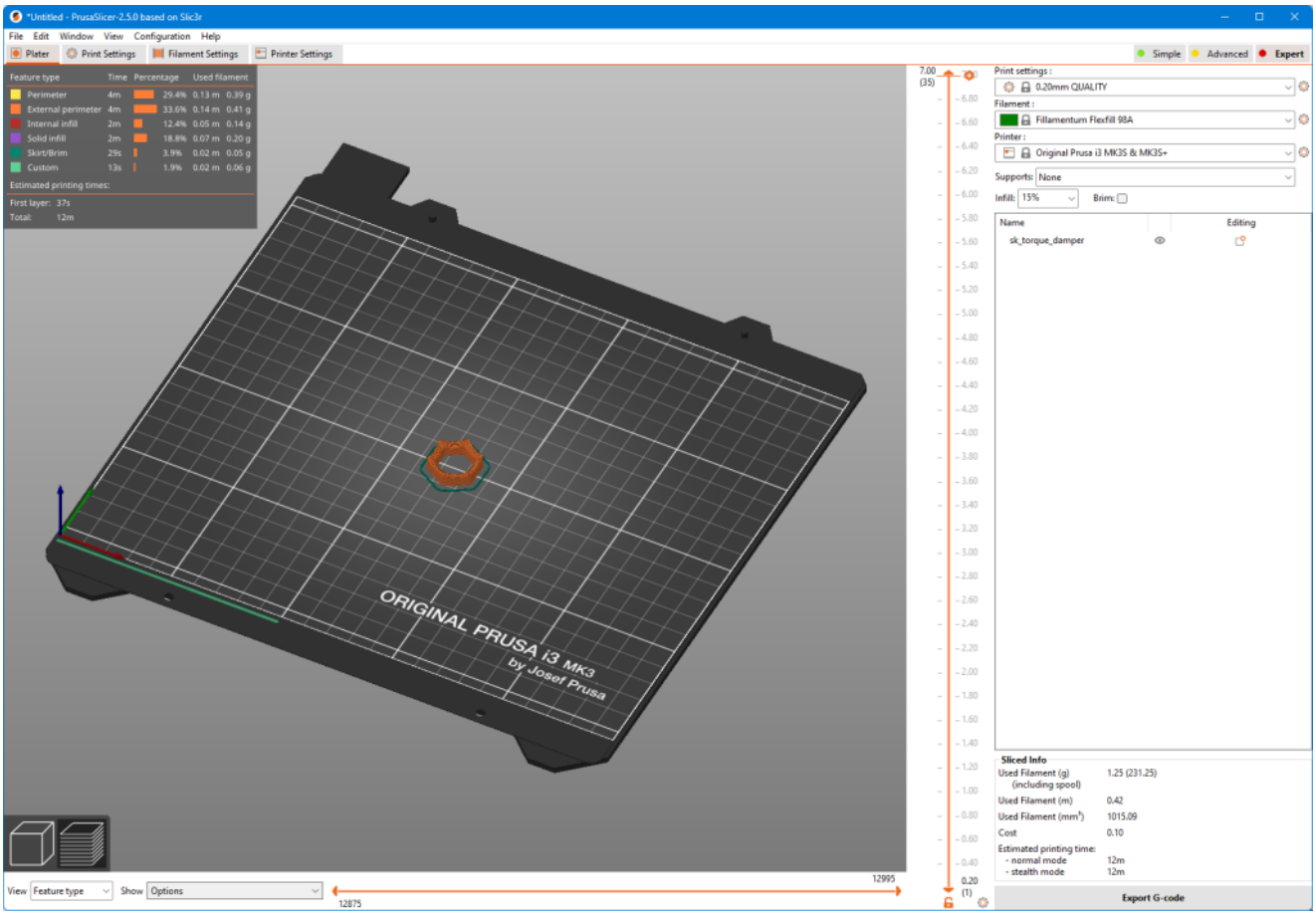
- **Printing time:** 1h 13 min / 2h 26 min
- **Filament weight:** ca. 7 g / 14 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 10m 18.0% 0.47 m 1.41 g
External perimeter 13m 21.6% 0.51 m 1.52 g
Overhang perimeter 1s 0.0% 0.00 m 0.00 g
Internal infill 15m 25.5% 0.65 m 1.94 g
Solid infill 17m 29.9% 0.41 m 1.23 g
Top solid infill 1m 1.8% 0.05 m 0.16 g
Bridge infill 1m 1.9% 0.05 m 0.15 g
Skirt/Brim 20s 0.6% 0.01 m 0.04 g
Custom 20s 0.6% 0.02 m 0.05 g
Estimated printing times:
First layer: 32s
Total: 58m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_gear_3_v1
Sliced Info
Used Filament (g) (including spool) 6.50 (207.50)
Used Filament (m) 2.18
Used Filament (mm³) 5245.88
Cost 0.24
Estimated printing time:
- normal mode 58m
Export G-code
View Feature type
Show Options

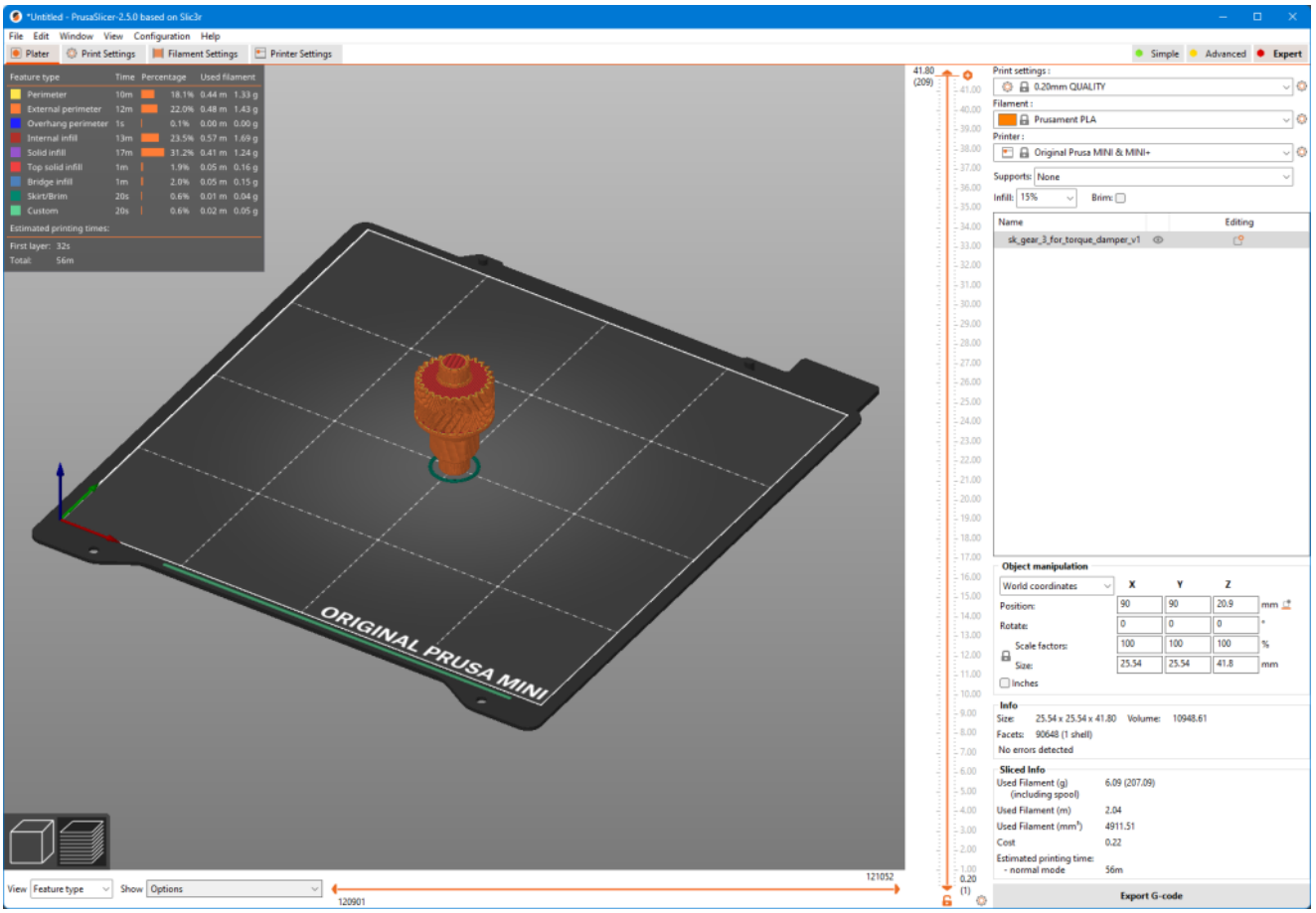

*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 11m 17.3% 0.47 m 1.41 g
External perimeter 14m 22.6% 0.51 m 1.52 g
Overhang perimeter 1s 0.0% 0.00 m 0.00 g
Internal infill 16m 25.7% 0.65 m 1.94 g
Solid infill 18m 29.8% 0.41 m 1.23 g
Top solid infill 1m 1.7% 0.05 m 0.16 g
Bridge infill 1m 1.9% 0.05 m 0.15 g
Skirt/Brim 21s 0.6% 0.01 m 0.04 g
Custom 13s 0.4% 0.02 m 0.06 g
Estimated printing times:
First layer: 23s
Total: 1h1m
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_gear_3_v1
Sliced Info
Used Filament (g) (including spool) 6.52 (207.52)
Used Filament (m) 2.18
Used Filament (mm³) 5254.30
Cost 0.24
Estimated printing time:
- normal mode 1h1m
- stealth mode 1h1m
Export G-code
View Feature type
Show Options

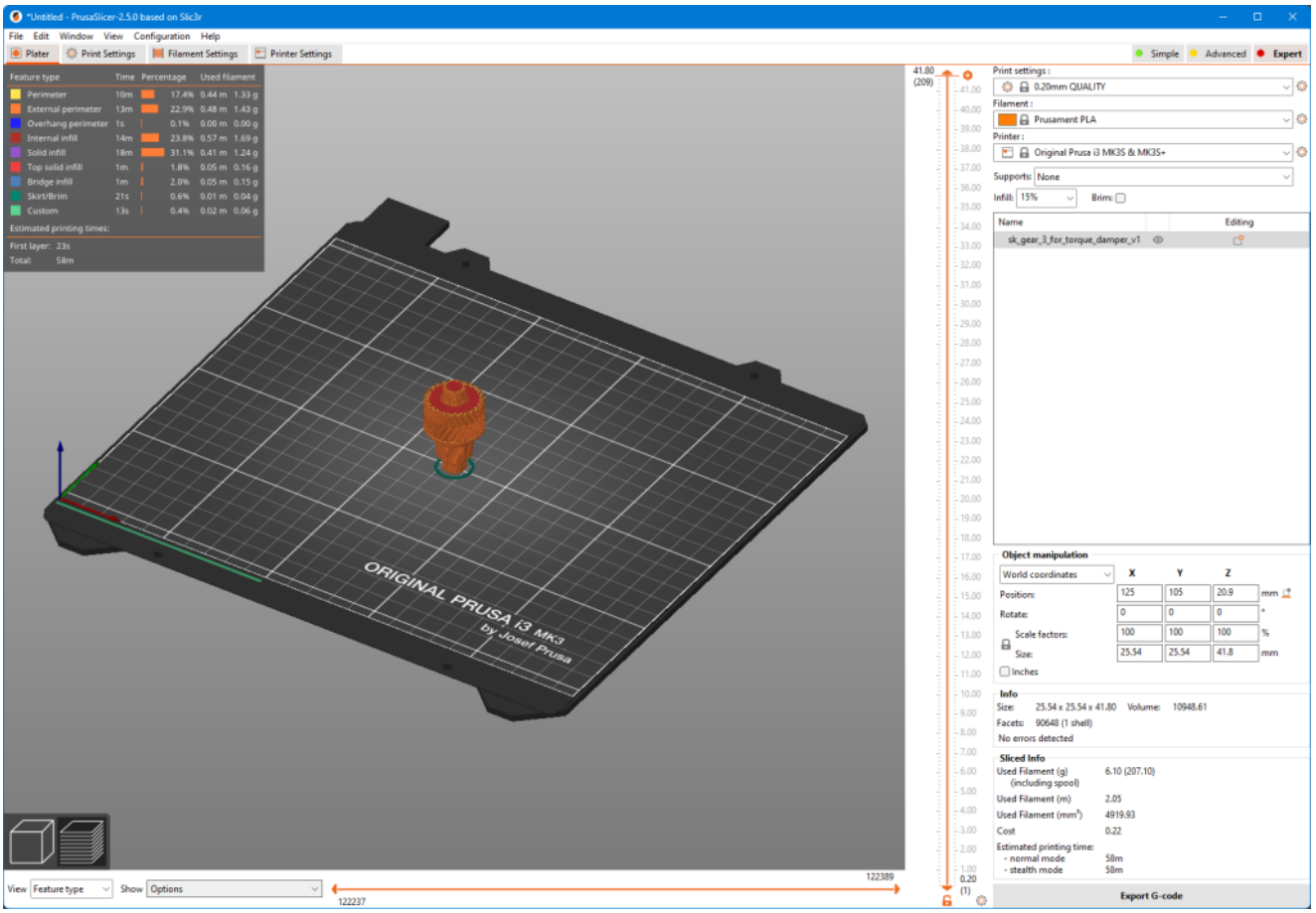


FLEX-TPU Torque damper



FLEX-TPU Torque damper


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 10m 18.1% 0.44 m 1.33 g
External perimeter 12m 22.0% 0.48 m 1.43 g
Overhang perimeter 1s 0.1% 0.00 m 0.00 g
Internal infill 13m 23.5% 0.57 m 1.69 g
Solid infill 17m 31.2% 0.41 m 1.24 g
Top solid infill 1m 1.9% 0.05 m 0.16 g
Bridge infill 1m 2.0% 0.05 m 0.15 g
Skirt/Brim 20s 0.6% 0.01 m 0.04 g
Custom 20s 0.6% 0.02 m 0.05 g
Estimated printing times:
First layer: 32s
Total: 56m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15% Brim:
Name Editing
sk_gear_3_for_torque_damper_v1
Object manipulation
World coordinates X Y Z
Position: 90 90 20.9 mm
Rotate: 0 0 0 °
Scale factors: 100 100 100 %
Size: 25.54 25.54 41.8 mm
Inches
Info
Size: 25.54 x 25.54 x 41.80 Volume: 10948.61
Facets: 90648 (1 shell)
No errors detected
Sliced Info
Used Filament (g) (including spool) 6.09 (207.09)
Used Filament (m) 2.04
Used Filament (mm³) 4911.51
Cost 0.22
Estimated printing time:
- normal mode 56m
Export G-code
View Feature type Show Options
121052
120901


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 10m 17.4% 0.44 m 1.33 g
External perimeter 13m 22.9% 0.48 m 1.43 g
Overhang perimeter 1s 0.1% 0.00 m 0.00 g
Internal infill 14m 23.8% 0.57 m 1.69 g
Solid infill 18m 31.1% 0.41 m 1.24 g
Top solid infill 1m 1.8% 0.05 m 0.16 g
Bridge infill 1m 2.0% 0.05 m 0.15 g
Skirt/Brim 21s 0.6% 0.01 m 0.04 g
Custom 13s 0.4% 0.02 m 0.06 g
Estimated printing times:
First layer: 23s
Total: 58m
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15% Brim:
Name Editing
sk_gear_3_for_torque_damper_v1
Object manipulation
World coordinates X Y Z
Position: 125 105 20.9 mm
Rotate: 0 0 0 °
Scale factors: 100 100 100 %
Size: 25.54 25.54 41.8 mm
Inches
Info
Size: 25.54 x 25.54 x 41.80 Volume: 10948.61
Facets: 90648 (1 shell)
No errors detected
Sliced Info
Used Filament (g) (including spool) 6.10 (207.10)
Used Filament (m) 2.05
Used Filament (mm³) 4919.93
Cost 0.22
Estimated printing time:
- normal mode 58m
- stealth mode 58m
Export G-code
View Feature type Show Options
122389
122237

Step 5: SK_MOTOR_HOLDER

Printing files for RWD:

1X SK_MOTOR_HOLDER

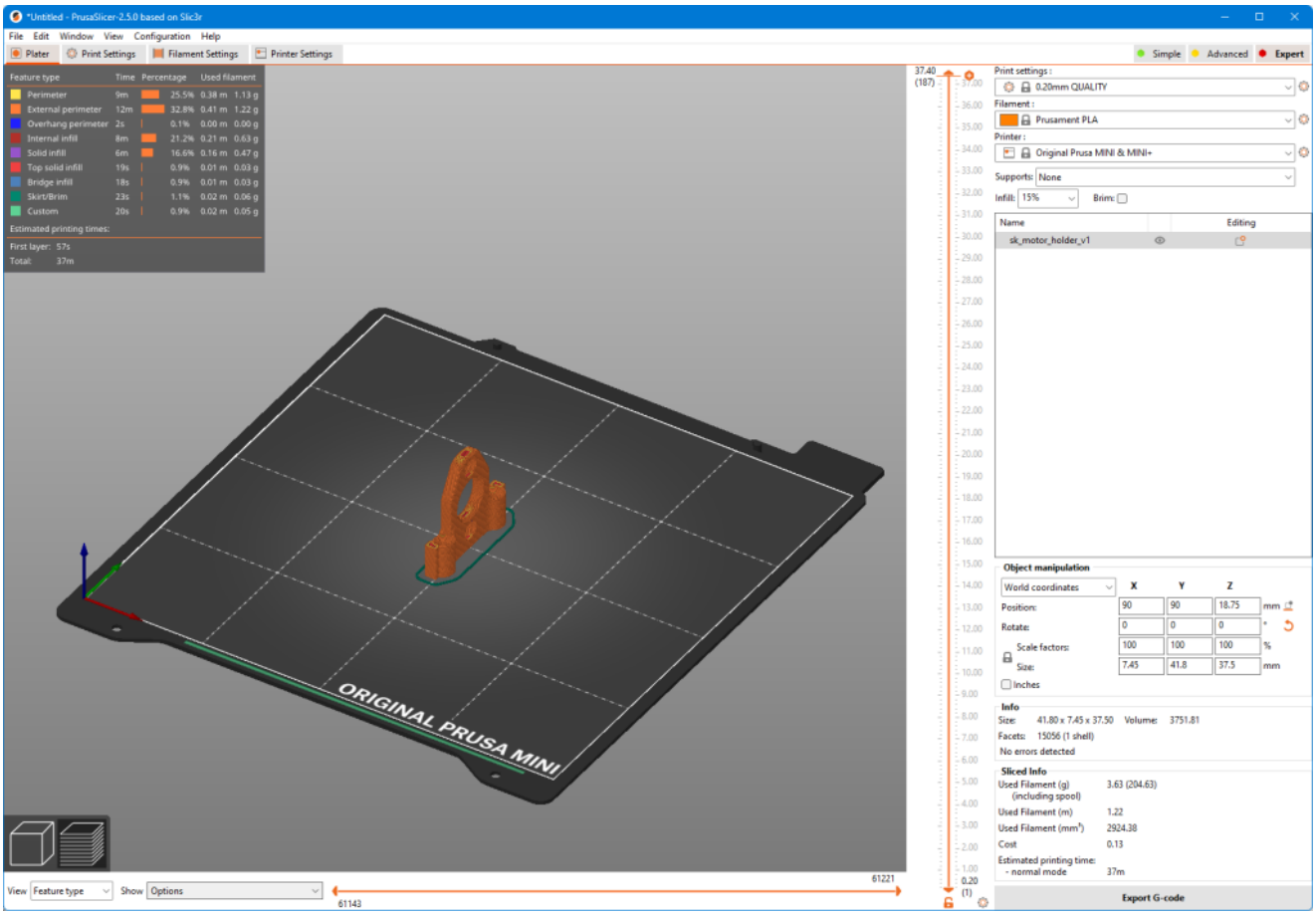
Printing files for AWD:

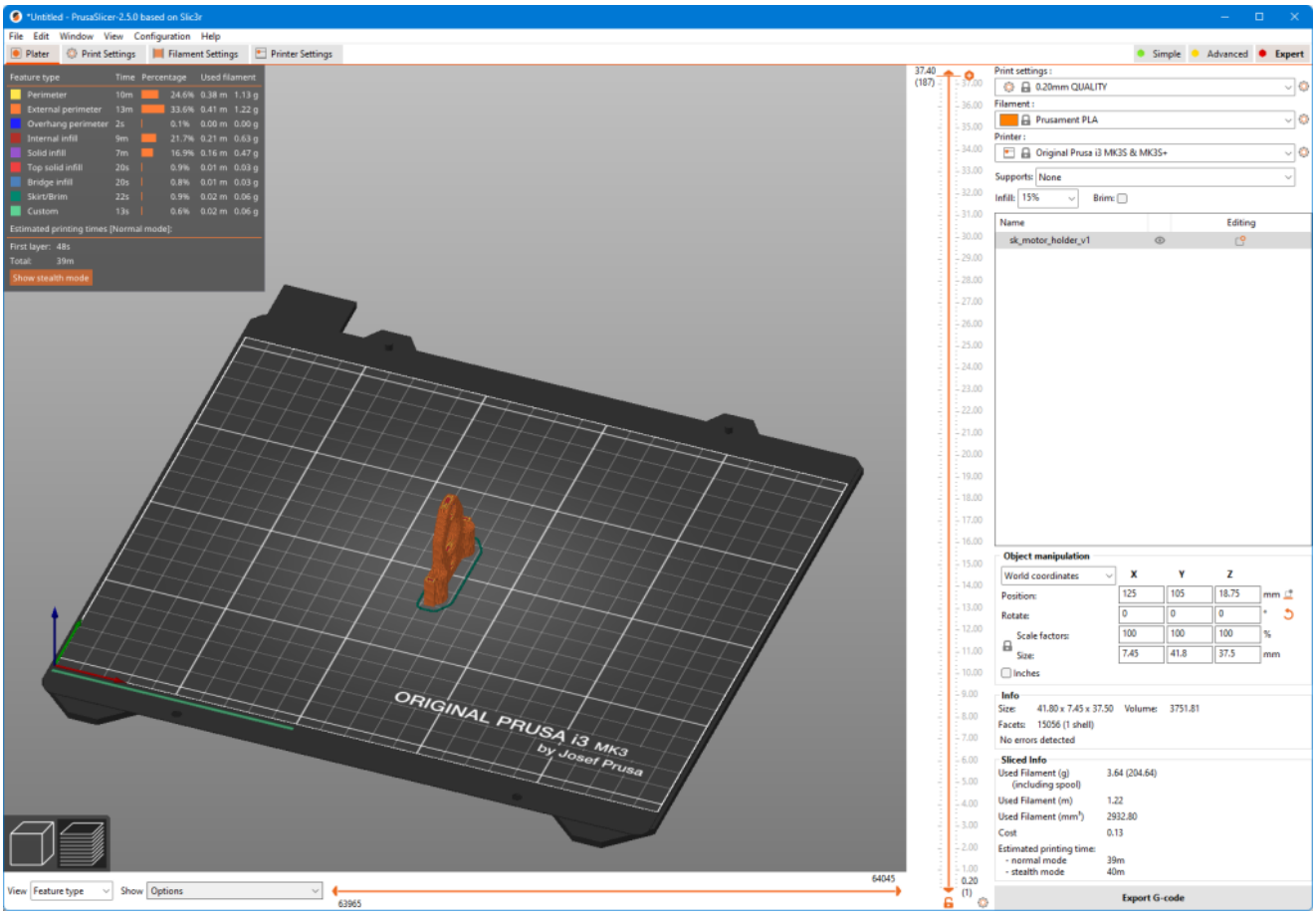
2X SK_MOTOR_HOLDER

Printing parameters:

- **Filament material:** PLA
- **Color**: Any color / Black ⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill:** 15%

- **Filament weight:** ca. 4 g / 8 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 9m 25.5% 0.38 m 1.13 g
External perimeter 12m 32.8% 0.41 m 1.22 g
Overhang perimeter 2s 0.1% 0.00 m 0.00 g
Internal infill 8m 21.2% 0.21 m 0.63 g
Solid infill 6m 16.6% 0.16 m 0.47 g
Top solid infill 19s 0.9% 0.01 m 0.03 g
Bridge infill 18s 0.9% 0.01 m 0.03 g
Skirt/Brim 23s 1.1% 0.02 m 0.06 g
Custom 20s 0.9% 0.02 m 0.05 g
Estimated printing times:
First layer: 57s
Total: 37m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15% Brim:
Name Editing
sk_motor_holder_v1
Object manipulation
World coordinates X Y Z
Position: 90 90 18.75 mm
Rotate: 0 0 0 °
Scale factors: 100 100 100 %
Size: 7.45 41.8 37.5 mm
Inches
Info
Size: 41.80 x 7.45 x 37.50 Volume: 3751.81
Facets: 15056 (1 shell)
No errors detected
Sliced Info
Used Filament (g) (including spool) 3.63 (204.63)
Used Filament (m) 1.22
Used Filament (mm³) 2924.38
Cost 0.13
Estimated printing time:
- normal mode 37m
Export G-code
View Feature type Show Options


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 10m 24.6% 0.38 m 1.13 g
External perimeter 13m 33.6% 0.41 m 1.22 g
Overhang perimeter 2s 0.1% 0.00 m 0.00 g
Internal infill 9m 21.7% 0.21 m 0.63 g
Solid infill 7m 16.9% 0.16 m 0.47 g
Top solid infill 20s 0.9% 0.01 m 0.03 g
Bridge infill 20s 0.8% 0.01 m 0.03 g
Skirt/Brim 22s 0.9% 0.02 m 0.06 g
Custom 13s 0.6% 0.02 m 0.06 g
Estimated printing times (Normal mode):
First layer: 48s
Total: 39m
Show stealth mode
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15% Brim:
Name Editing
sk_motor_holder_v1
Object manipulation
World coordinates X Y Z
Position: 125 105 18.75 mm
Rotate: 0 0 0 °
Scale factors: 100 100 100 %
Size: 7.45 41.8 37.5 mm
Inches
Info
Size: 41.80 x 7.45 x 37.50 Volume: 3751.81
Facets: 15056 (1 shell)
No errors detected
Sliced Info
Used Filament (g) (including spool) 3.64 (204.64)
Used Filament (m) 1.22
Used Filament (mm³) 2932.80
Cost 0.13
Estimated printing time:
- normal mode 39m
- stealth mode 40m
Export G-code
View Feature type Show Options

Step 6: SK_DIFF_HOUSE

Printing files for RWD:

- 1X SK_DIFF_HOUSE_1
- 1X SK_DIFF_HOUSE_2
- 1X SK_DIFF_HOUSE_3

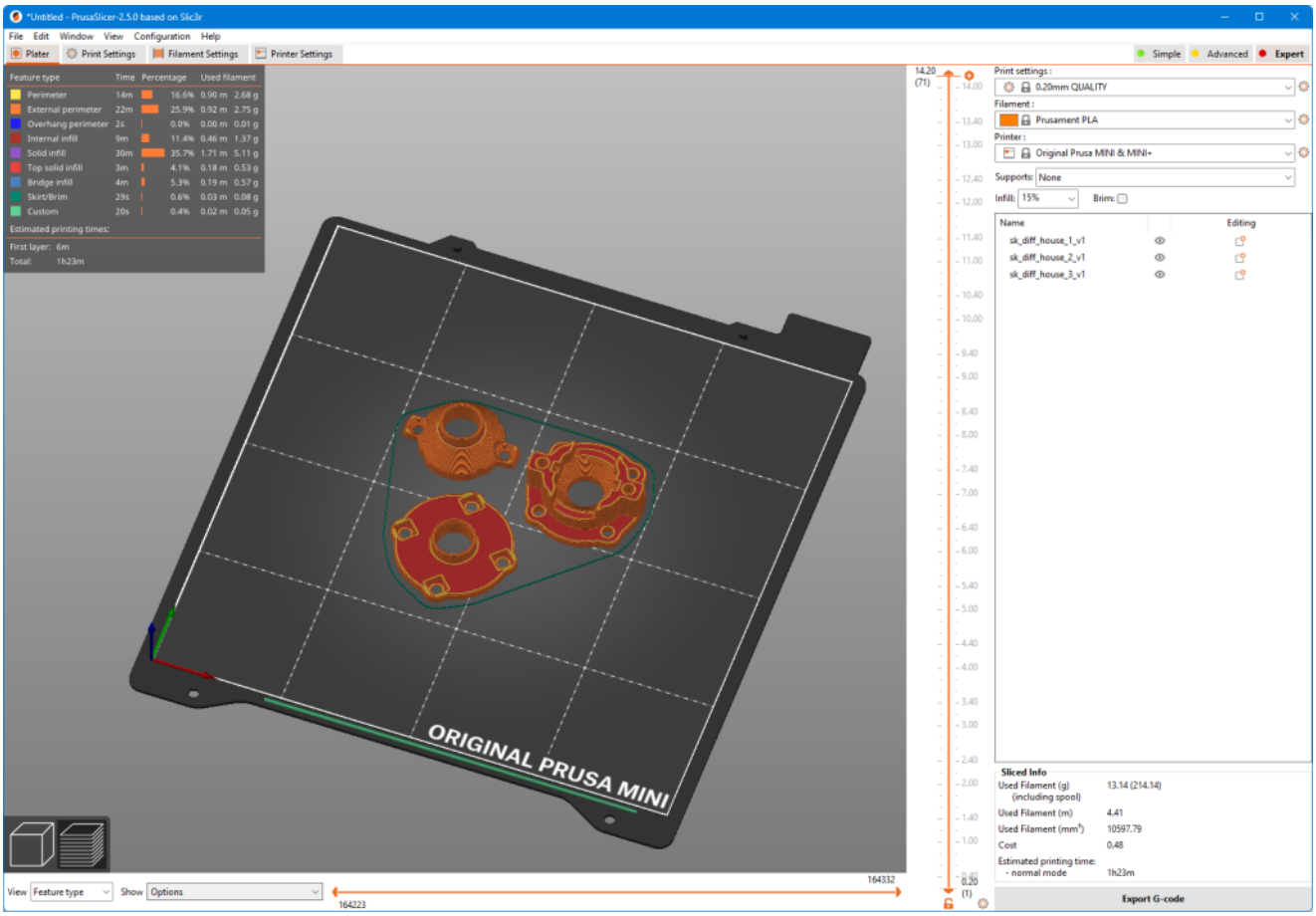
Printing files for AWD:

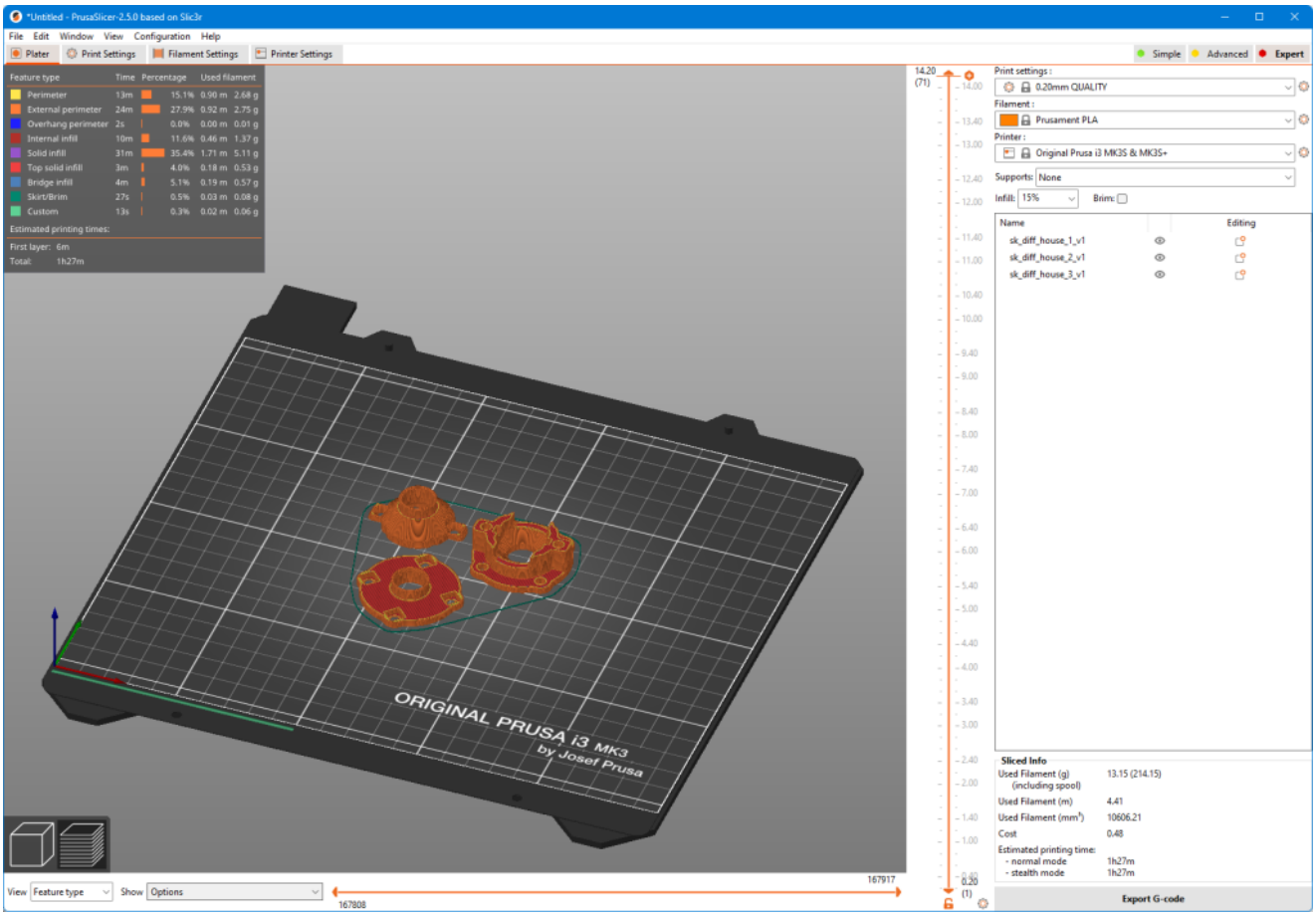
- 2X SK_DIFF_HOUSE_1
- 2X SK_DIFF_HOUSE_2
- 2X SK_DIFF_HOUSE_3

Printing parameters:

- **Filament material:** PLA
- **Color**: Any color / Black ⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill:** 15%

- **Filament weight:** ca. 14 g / 28 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 14m 16.6% 0.90 m 2.68 g
External perimeter 22m 25.9% 0.92 m 2.75 g
Overhang perimeter 2s 0.0% 0.00 m 0.01 g
Internal infill 9m 11.4% 0.46 m 1.37 g
Solid infill 30m 35.7% 1.71 m 5.11 g
Top solid infill 3m 4.1% 0.18 m 0.53 g
Bridge infill 4m 5.3% 0.19 m 0.57 g
Skirt/Brim 29s 0.6% 0.03 m 0.08 g
Custom 20s 0.4% 0.02 m 0.05 g
Estimated printing times:
First layer: 6m
Total: 1h23m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_diff_house_1_v1
sk_diff_house_2_v1
sk_diff_house_3_v1
Sliced Info
Used Filament (g) (including spool) 13.14 (214.14)
Used Filament (m) 4.41
Used Filament (mm³) 10597.79
Cost 0.48
Estimated printing time:
- normal mode 1h23m
Export G-code
View Feature type
Show Options
164332
164223


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 13m 15.1% 0.90 m 2.68 g
External perimeter 24m 27.9% 0.92 m 2.75 g
Overhang perimeter 2s 0.0% 0.00 m 0.01 g
Internal infill 10m 11.6% 0.46 m 1.37 g
Solid infill 31m 35.4% 1.71 m 5.11 g
Top solid infill 3m 4.0% 0.18 m 0.53 g
Bridge infill 4m 5.1% 0.19 m 0.57 g
Skirt/Brim 27s 0.5% 0.03 m 0.08 g
Custom 13s 0.3% 0.02 m 0.06 g
Estimated printing times:
First layer: 6m
Total: 1h27m
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_diff_house_1_v1
sk_diff_house_2_v1
sk_diff_house_3_v1
Sliced Info
Used Filament (g) (including spool) 13.15 (214.15)
Used Filament (m) 4.41
Used Filament (mm³) 10606.21
Cost 0.48
Estimated printing time:
- normal mode 1h27m
- stealth mode 1h27m
Export G-code
View Feature type
Show Options
167917
167808

Step 7: SK_GEAR_4

Printing files for RWD:

1X SK_GEAR_4

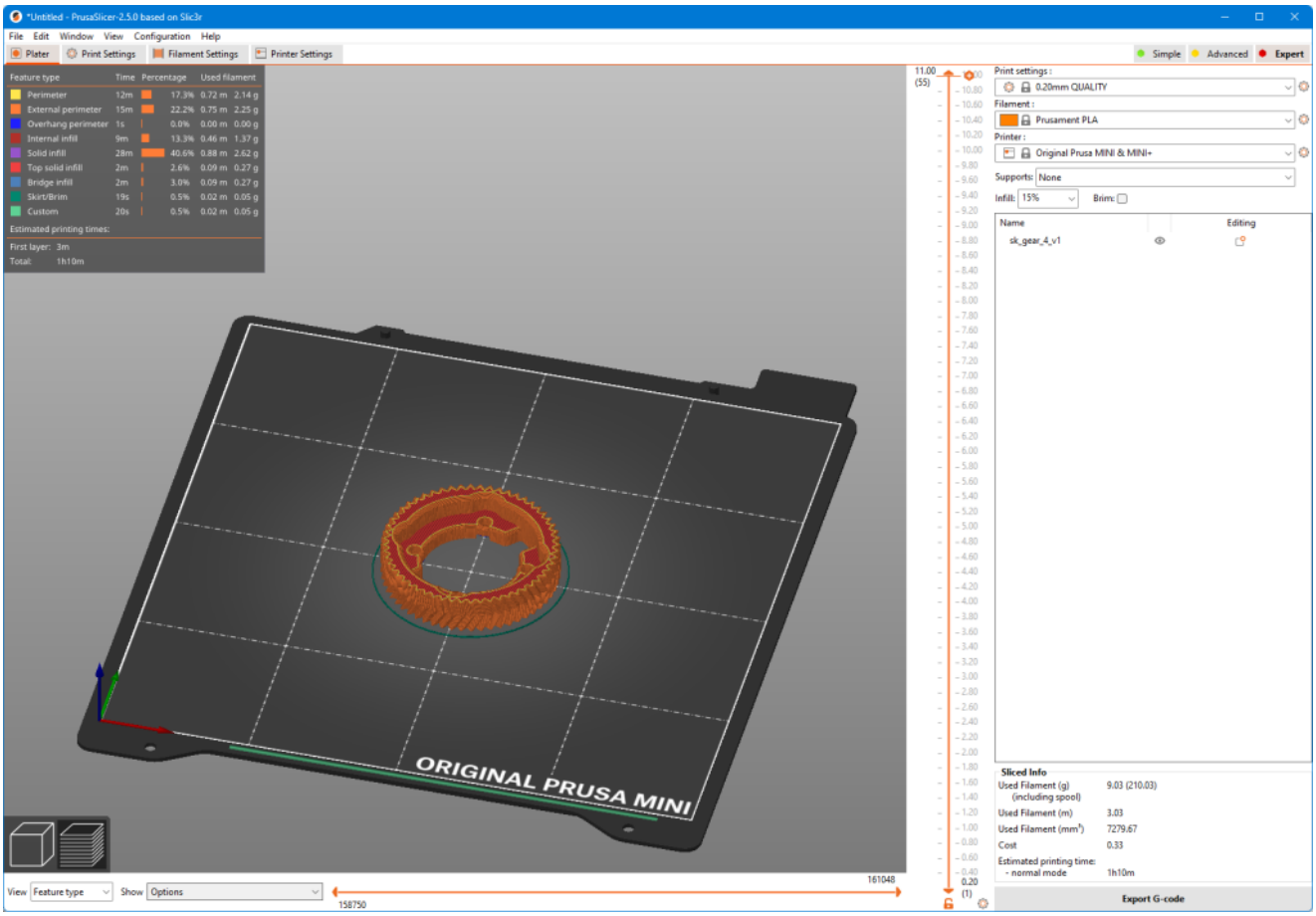
Printing files for AWD:

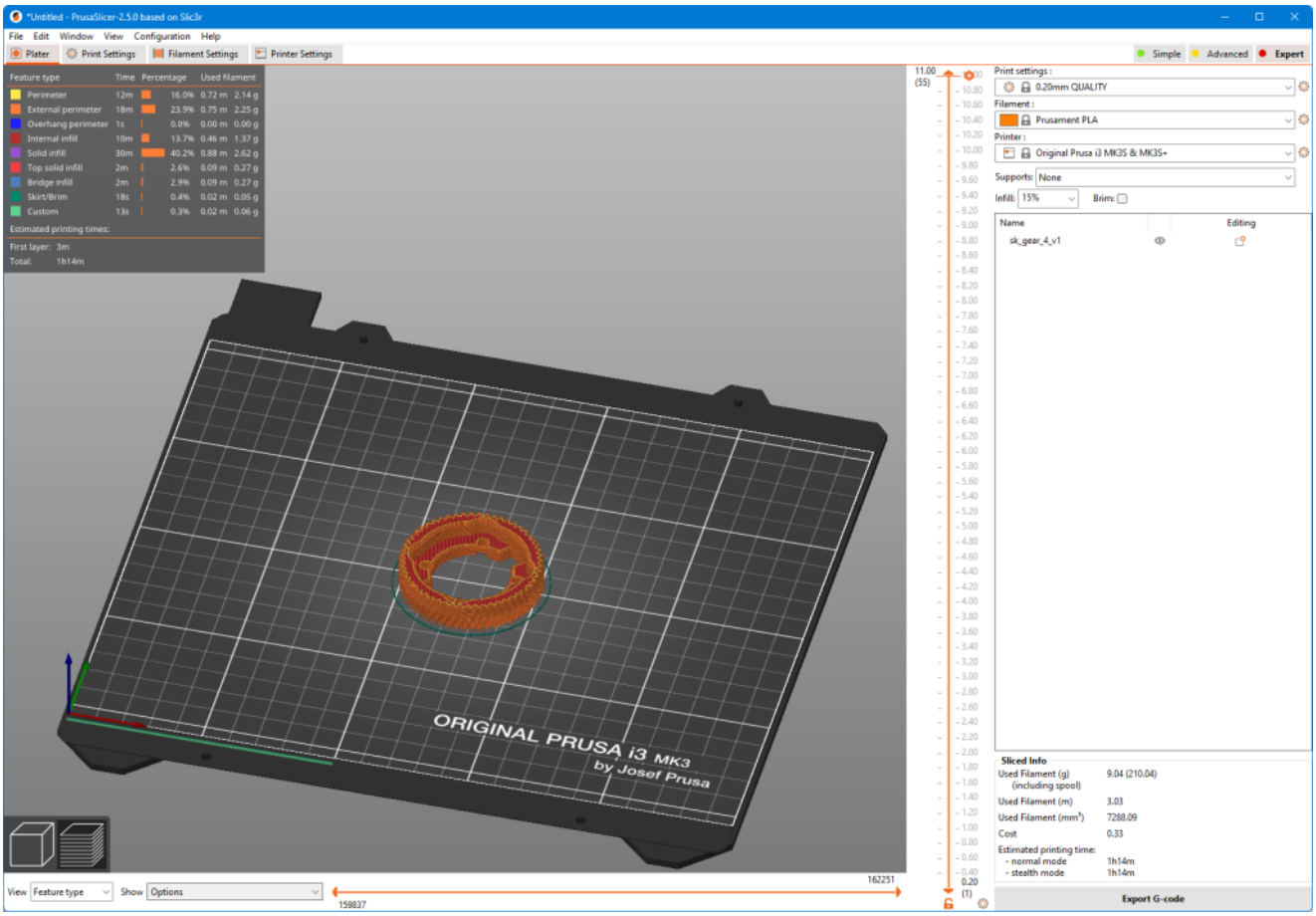
2X SK_GEAR_4

Printing parameters:

- **Filament material:** PLA
- **Color**: Any color / Black ⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill:** 15%

- **Filament weight:** ca. 10 g / 20 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 12m 17.3% 0.72 m 2.14 g
External perimeter 15m 22.2% 0.75 m 2.25 g
Overhang perimeter 1s 0.0% 0.00 m 0.00 g
Internal infill 9m 13.3% 0.46 m 1.37 g
Solid infill 28m 40.6% 0.88 m 2.62 g
Top solid infill 2m 2.6% 0.09 m 0.27 g
Bridge infill 2m 3.0% 0.09 m 0.27 g
Skirt/Brim 19s 0.5% 0.02 m 0.05 g
Custom 20s 0.5% 0.02 m 0.05 g
Estimated printing times:
First layer: 3m
Total: 1h10m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15%
Brim:
Name Editing
sk_gear_4_v1
Sliced Info
Used Filament (g) (including spool) 9.03 (210.03)
Used Filament (m) 3.03
Used Filament (mm³) 7279.67
Cost 0.33
Estimated printing time:
- normal mode 1h10m
Export G-code
View Feature type Show Options
161048
158750


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 12m 16.0% 0.72 m 2.14 g
External perimeter 18m 23.9% 0.75 m 2.25 g
Overhang perimeter 1s 0.0% 0.00 m 0.00 g
Internal infill 10m 13.7% 0.46 m 1.37 g
Solid infill 30m 40.2% 0.88 m 2.62 g
Top solid infill 2m 2.6% 0.09 m 0.27 g
Bridge infill 2m 2.9% 0.09 m 0.27 g
Skirt/Brim 18s 0.4% 0.02 m 0.05 g
Custom 13s 0.3% 0.02 m 0.06 g
Estimated printing times:
First layer: 3m
Total: 1h14m
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15%
Brim:
Name Editing
sk_gear_4_v1
Sliced Info
Used Filament (g) (including spool) 9.04 (210.04)
Used Filament (m) 3.03
Used Filament (mm³) 7288.09
Cost 0.33
Estimated printing time:
- normal mode 1h14m
- stealth mode 1h14m
Export G-code
View Feature type Show Options
162251
159837

Step 8: SK_DIFF_BEVEL_GEAR

Printing files for RWD:

- 2X SK_DIFF_BEVEL_GEAR_1
- 1X SK_DIFF_BEVEL_GEAR_2
- 1X SK_DIFF_BEVEL_GEAR_3

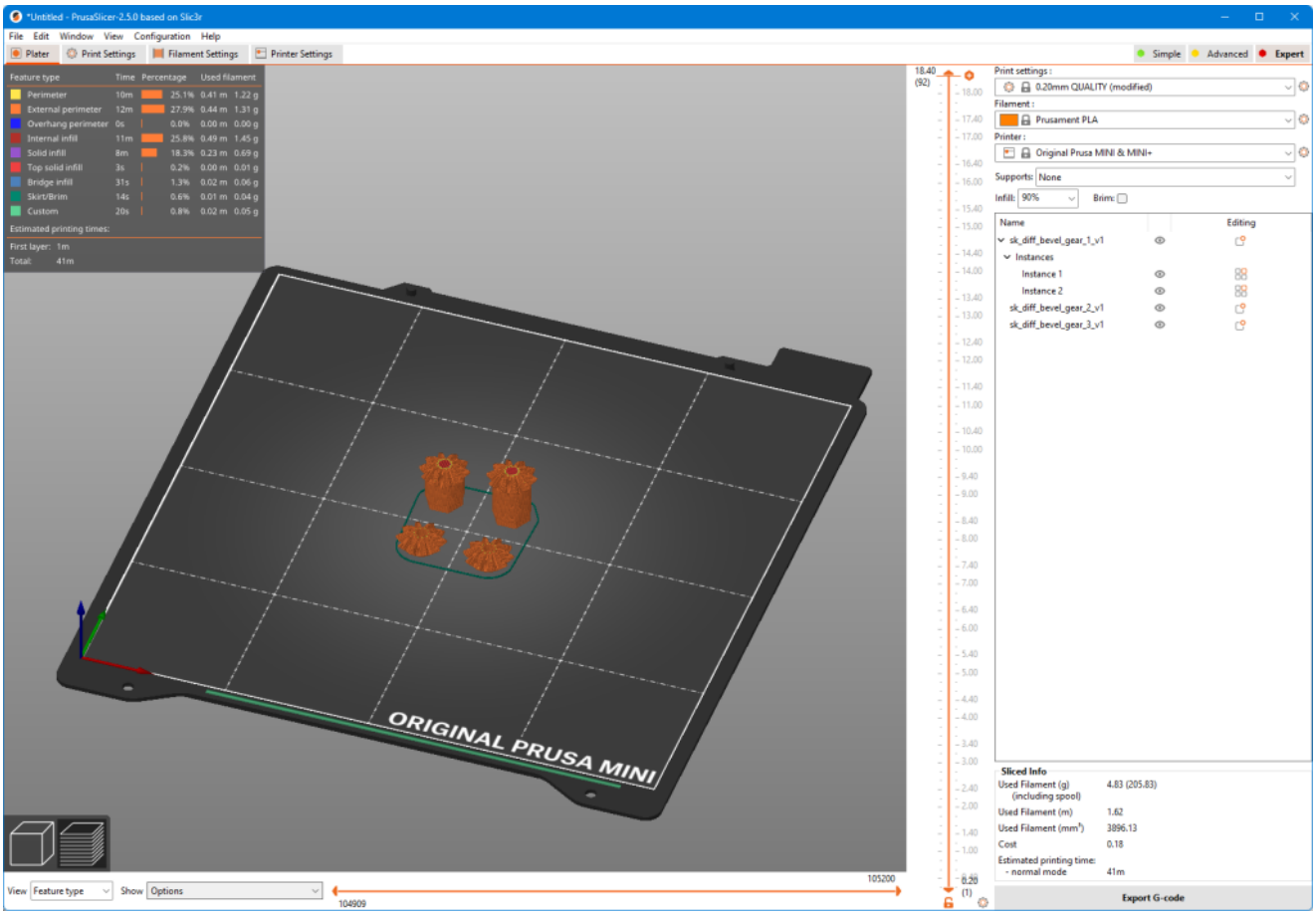
Printing files for AWD:

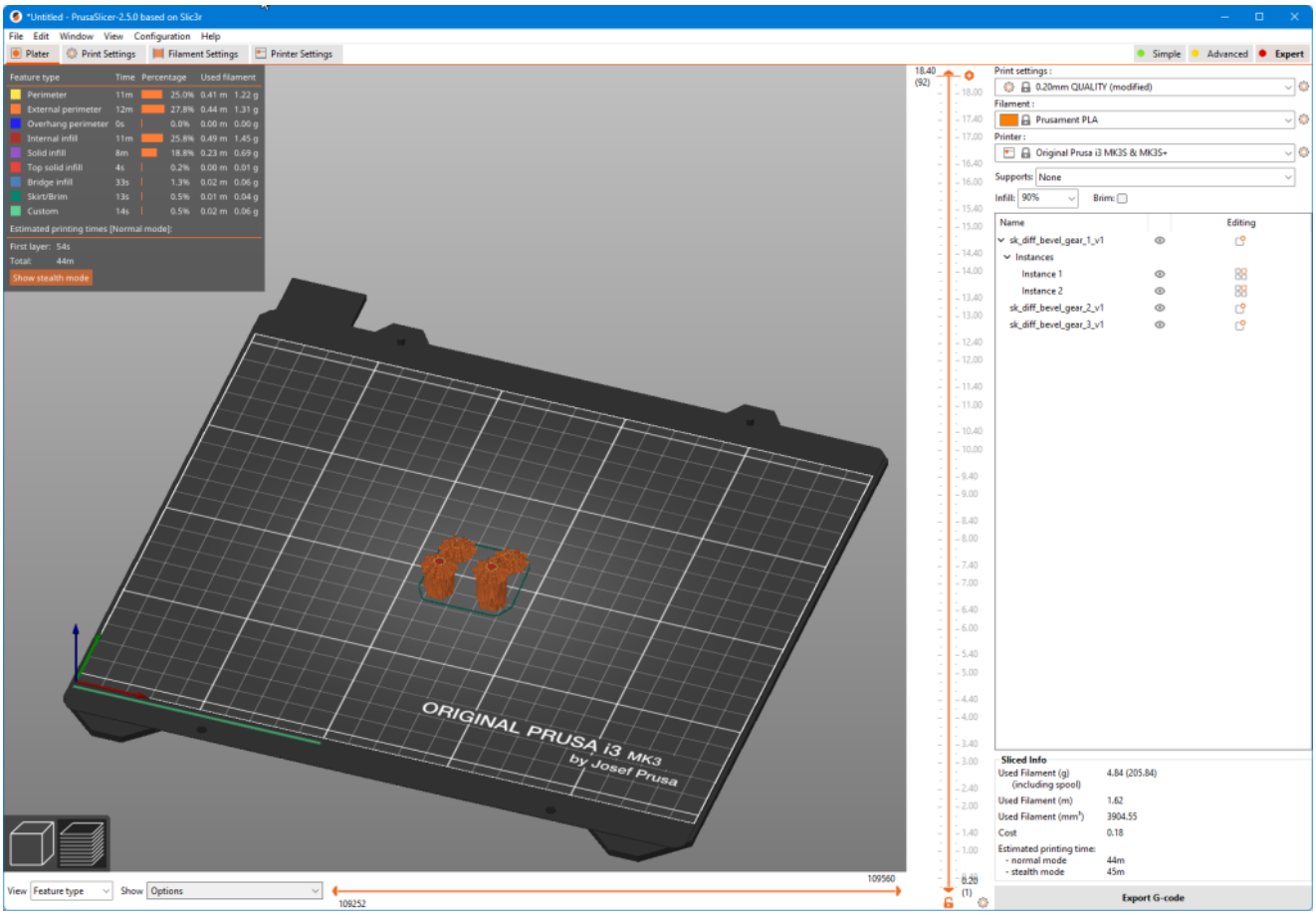
- 4X SK_DIFF_BEVEL_GEAR_1
- 2X SK_DIFF_BEVEL_GEAR_2
- 2X SK_DIFF_BEVEL_GEAR_3

Printing parameters:

- **Filament material:** PLA
- **Color**: Any color / Black ⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill: 90%**

- **Filament weight:** ca. 5 g / 10 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 10m 25.1% 0.41 m 1.22 g
External perimeter 12m 27.9% 0.44 m 1.31 g
Overhang perimeter 0s 0.0% 0.00 m 0.00 g
Internal infill 11m 25.8% 0.49 m 1.45 g
Solid infill 8m 18.3% 0.23 m 0.69 g
Top solid infill 3s 0.2% 0.00 m 0.01 g
Bridge infill 31s 1.3% 0.02 m 0.06 g
Skirt/Brim 14s 0.6% 0.01 m 0.04 g
Custom 20s 0.8% 0.02 m 0.05 g
Estimated printing times:
First layer: 1m
Total: 41m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY (modified)
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 90% Brim:
Name Editing
sk_diff_bevel_gear_1_v1
Instances
Instance 1
Instance 2
sk_diff_bevel_gear_2_v1
sk_diff_bevel_gear_3_v1
Sliced Info
Used Filament (g) (including spool) 4.83 (205.83)
Used Filament (m) 1.62
Used Filament (mm³) 3896.13
Cost 0.18
Estimated printing time:
- normal mode 41m
Export G-code
View Feature type Show Options
105200
104909


*Untitled - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 11m 25.0% 0.41 m 1.22 g
External perimeter 12m 27.8% 0.44 m 1.31 g
Overhang perimeter 0s 0.0% 0.00 m 0.00 g
Internal infill 11m 25.8% 0.49 m 1.45 g
Solid infill 8m 18.8% 0.23 m 0.69 g
Top solid infill 4s 0.2% 0.00 m 0.01 g
Bridge infill 33s 1.3% 0.02 m 0.06 g
Skirt/Brim 13s 0.5% 0.01 m 0.04 g
Custom 14s 0.5% 0.02 m 0.06 g
Estimated printing times (Normal mode):
First layer: 54s
Total: 44m
Show stealth mode
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Print settings :
0.20mm QUALITY (modified)
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 90% Brim:
Name Editing
sk_diff_bevel_gear_1_v1
Instances
Instance 1
Instance 2
sk_diff_bevel_gear_2_v1
sk_diff_bevel_gear_3_v1
Sliced Info
Used Filament (g) (including spool) 4.84 (205.84)
Used Filament (m) 1.62
Used Filament (mm³) 3904.55
Cost 0.18
Estimated printing time:
- normal mode 44m
- stealth mode 45m
Export G-code
View Feature type Show Options
109560
109252

Step 9: SK_DIFF_SPACER

Printing files for RWD:

2X SK_DIFF_SPACER

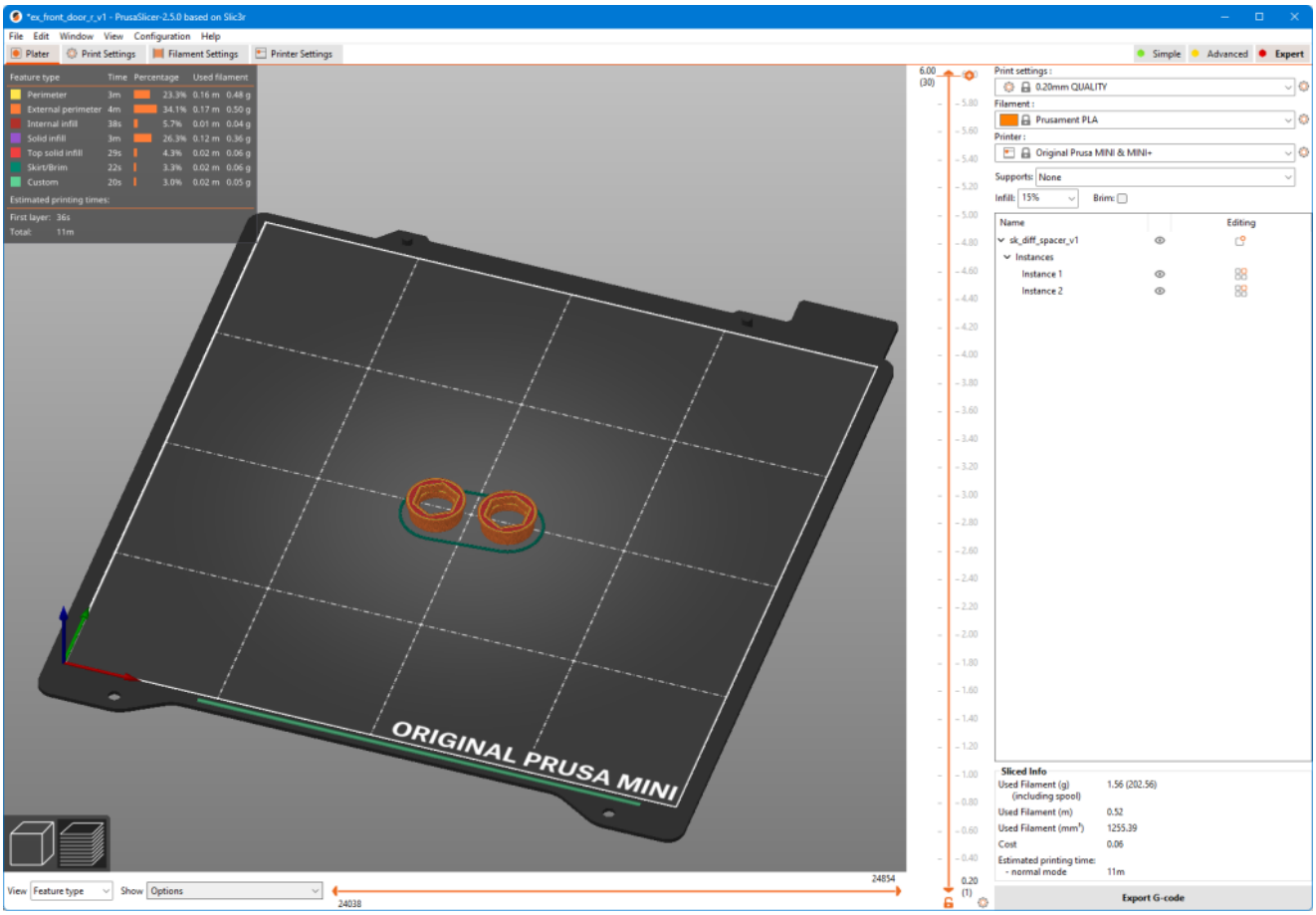
Printing files for AWD:

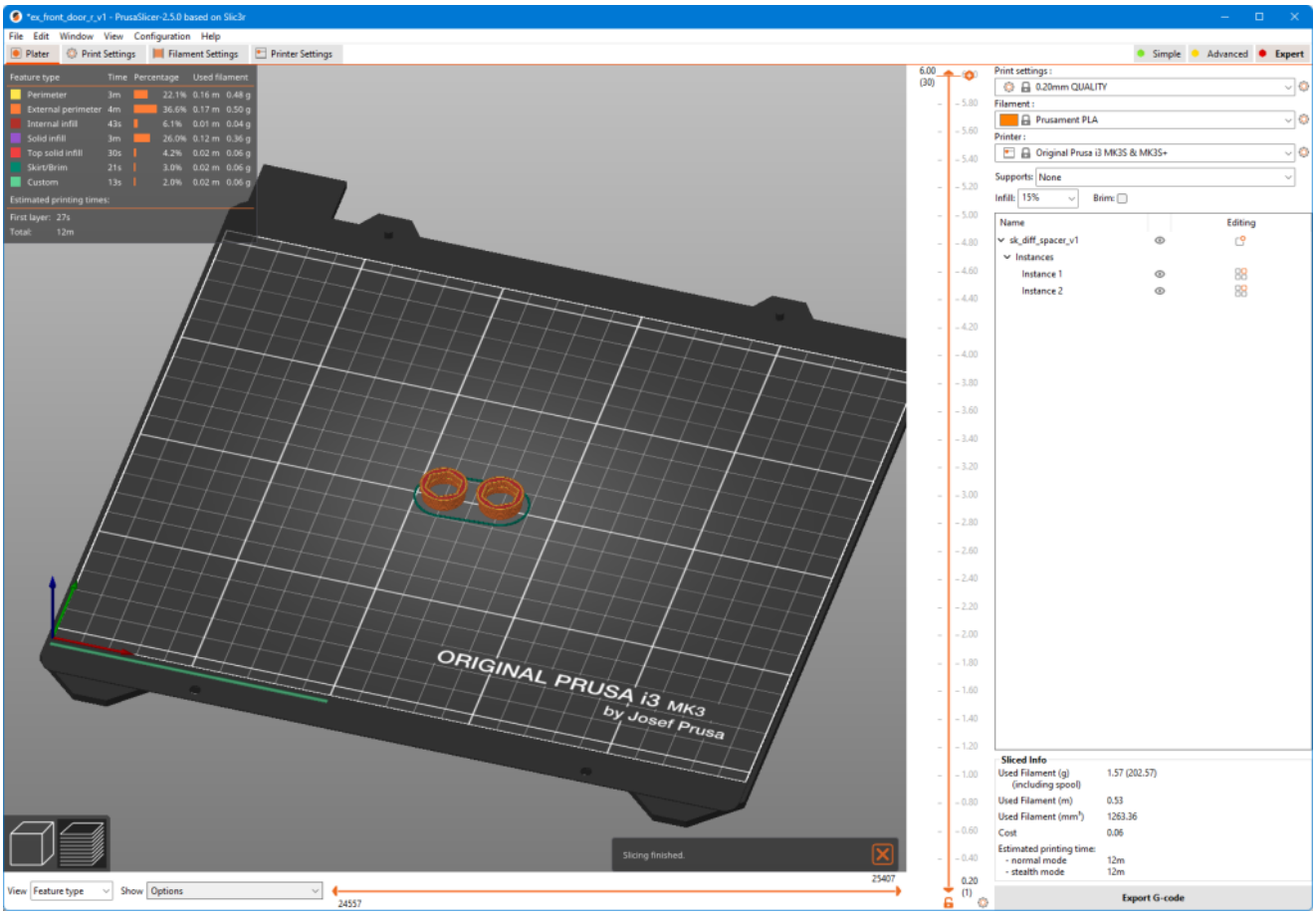
4X SK_DIFF_SPACER

Printing parameters:

- **Filament material:** PLA
- **Color**: Any color / Black ⬢
- **Layer height:** 0,2 mm
- **Support:** no
- **Infill:** 15%

- **Filament weight:** ca. 2 g/ 4 g
- **Prusa Mini compatible:** Yes
- **Quantity:** see above


*ex_front_door_r_v1 - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 3m 23.3% 0.16 m 0.48 g
External perimeter 4m 34.1% 0.17 m 0.50 g
Internal infill 38s 5.7% 0.01 m 0.04 g
Solid infill 3m 26.3% 0.12 m 0.36 g
Top solid infill 29s 4.3% 0.02 m 0.06 g
Skirt/Brim 22s 3.3% 0.02 m 0.06 g
Custom 20s 3.0% 0.02 m 0.05 g
Estimated printing times:
First layer: 36s
Total: 11m
ORIGINAL PRUSA MINI
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa MINI & MINI+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_diff_spacer_v1
Instances
Instance 1
Instance 2
Sliced Info
Used Filament (g) (including spool) 1.56 (202.56)
Used Filament (m) 0.52
Used Filament (mm³) 1255.39
Cost 0.06
Estimated printing time:
- normal mode 11m
Export G-code
View Feature type
Show Options
24854
24038


*ex_front_door_r_v1 - PrusaSlicer-2.5.0 based on Slic3r
File Edit Window View Configuration Help
Plater Print Settings Filament Settings Printer Settings
Simple Advanced Expert
Feature type Time Percentage Used filament
Perimeter 3m 22.1% 0.16 m 0.48 g
External perimeter 4m 36.6% 0.17 m 0.50 g
Internal infill 43s 6.1% 0.01 m 0.04 g
Solid infill 3m 26.0% 0.12 m 0.36 g
Top solid infill 30s 4.2% 0.02 m 0.06 g
Skirt/Brim 21s 3.0% 0.02 m 0.06 g
Custom 13s 2.0% 0.02 m 0.06 g
Estimated printing times:
First layer: 27s
Total: 12m
ORIGINAL PRUSA i3 MK3
by Josef Prusa
Slicing finished.
Print settings :
0.20mm QUALITY
Filament :
Prusament PLA
Printer :
Original Prusa i3 MK3S & MK3S+
Supports: None
Infill: 15%
Brim:
Name
Editing
sk_diff_spacer_v1
Instances
Instance 1
Instance 2
Sliced Info
Used Filament (g) (including spool) 1.57 (202.57)
Used Filament (m) 0.53
Used Filament (mm³) 1263.36
Cost 0.06
Estimated printing time:
- normal mode 12m
- stealth mode 12m
Export G-code
View Feature type
Show Options
25407
24557

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