

VoxelPrint Pro - User Guide

Introduction

VoxelPrint Pro is a professional WooCommerce plugin that allows your customers to upload 3D models and configure them in full color directly in your shop. It calculates pricing based on material costs, print speed, and additional parameters, and enables multi-color printing without an external 3MF server. This guide shows you how to install and configure the plugin, and how your customers use it on the frontend.

Installation and Activation

- 1 Upload the plugin: In your WordPress admin area, go to Plugins → Add New → Upload Plugin and select the ZIP file for VoxelPrint Pro.
- 2 Confirm installation: Click Install Now, then click Activate to activate the plugin.
- 3 Check menu entries: After activation, a new menu item VoxelPrint Pro appears in the left admin menu with the sub-items Settings, Material Management, and License.

Configuring Settings

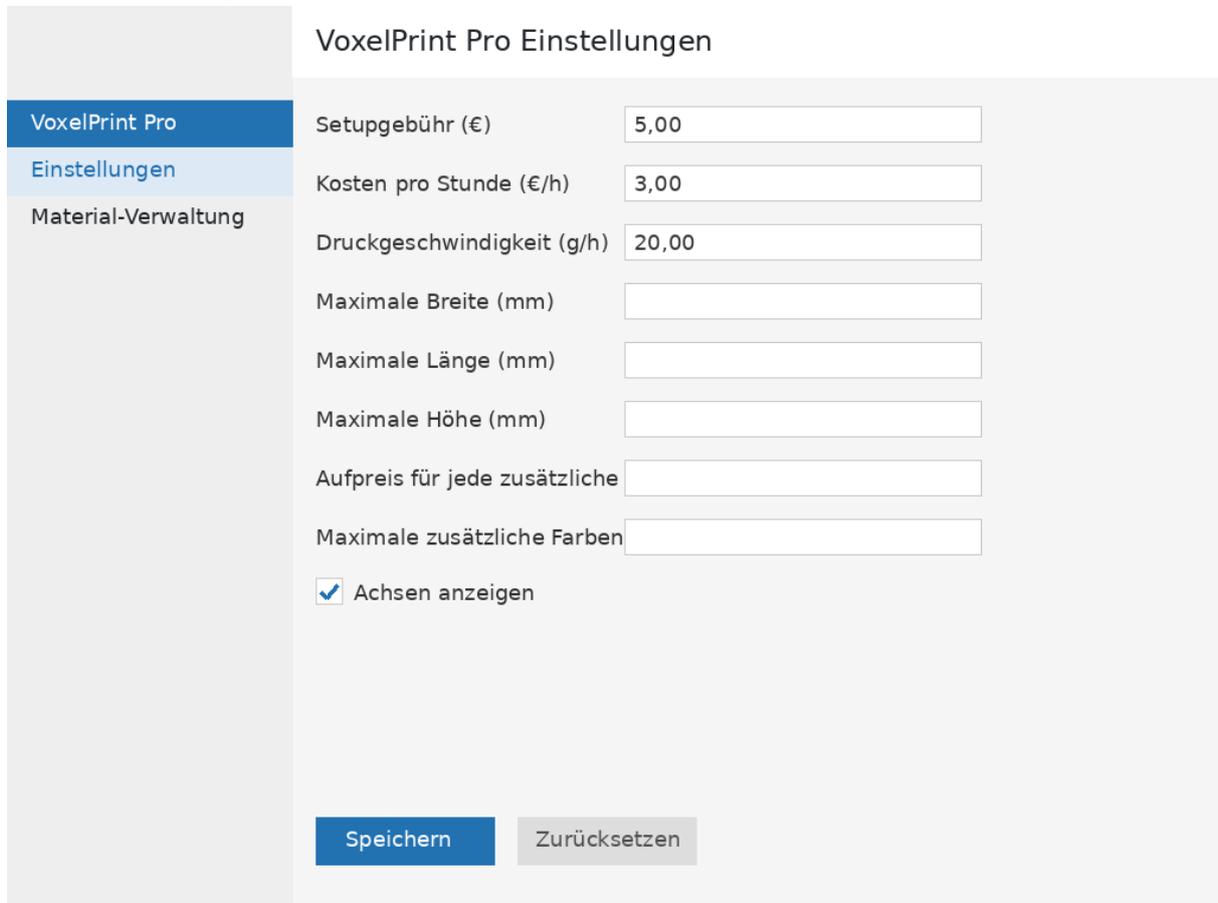
Under VoxelPrint Pro → Settings, you define the base parameters used for pricing. The page shows a form with several fields and options (see Figure 1):

- Setup fee (€): A fixed amount charged once per order.
- Cost per hour (€/h): Hourly rate for machine runtime. Together with print speed, it determines printing costs.
- Print speed (g/h): How many grams your printer can process per hour.
- Maximum width/length/height (mm): Limits for print size. Files that exceed these dimensions are not rejected; they are automatically scaled down to the maximum dimensions. The customer receives a notice about the adjustment.
- Surcharge for each additional color (€): Extra charge per additional color in multi-color printing.
- Maximum additional colors: Limits how many extra colors a customer may choose.
- Notice text at color limit: Message displayed when the customer reaches the configured color limit.

- Show axes: Displays coordinate axes in the 3D viewer (useful for orientation).

After entering your values, click Save to apply the settings. Use Reset to restore the default values.

Backend settings



VoxelPrint Pro Einstellungen

VoxelPrint Pro	Setupgebühr (€)	5,00
Einstellungen	Kosten pro Stunde (€/h)	3,00
Material-Verwaltung	Druckgeschwindigkeit (g/h)	20,00
	Maximale Breite (mm)	
	Maximale Länge (mm)	
	Maximale Höhe (mm)	
	Aufpreis für jede zusätzliche	
	Maximale zusätzliche Farben	
	<input checked="" type="checkbox"/> Achsen anzeigen	

Speichern Zurücksetzen

Figure 1: The page VoxelPrint Pro → Settings in the WordPress admin area.

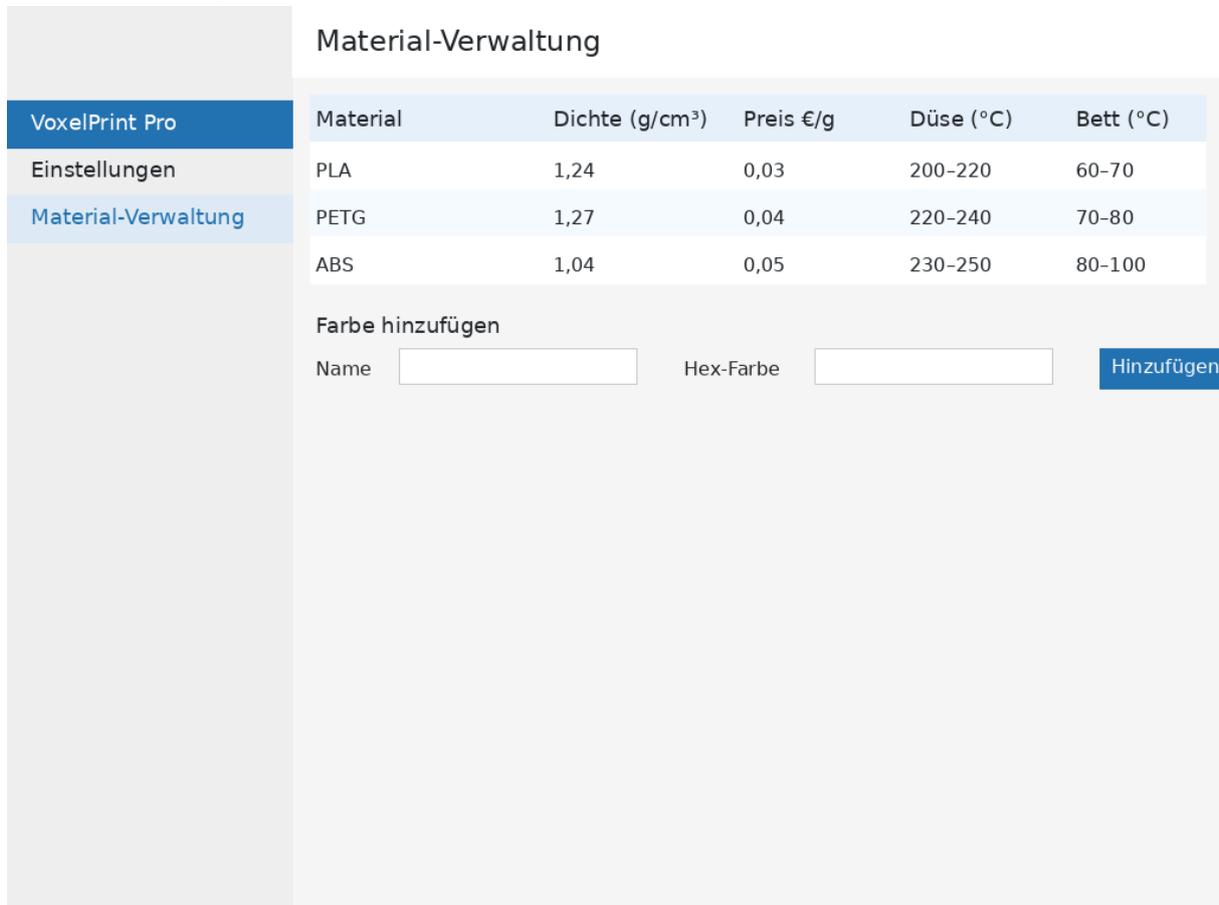
Managing Materials and Colors

Under VoxelPrint Pro → Material Management, you define the available materials and colors (see Figure 2). The material list contains several columns:

- Material: Name of the material (e.g., PLA, PETG, ABS).
- Density (g/cm³): Key factor for weight calculation.
- Price €/g: Cost per gram of the material.
- Nozzle (°C): Recommended nozzle temperature for your 3D printer.
- Bed (°C): Recommended heated bed temperature.
- Colors: Which colors are compatible with the material. Colors are displayed as small “pills” and can be assigned or removed by clicking.

You can add or remove materials and adjust their values at any time. At the bottom of the page, you will also find a section to add new colors: enter a name and the hex color code, then click Add. The new colors will be available in the list afterwards.

Material management



Material-Verwaltung

Material	Dichte (g/cm ³)	Preis €/g	Düse (°C)	Bett (°C)
PLA	1,24	0,03	200-220	60-70
PETG	1,27	0,04	220-240	70-80
ABS	1,04	0,05	230-250	80-100

Farbe hinzufügen

Name Hex-Farbe [Hinzufügen](#)

Figure 2: Material and color management in VoxelPrint Pro.

License Management

If you have a license, you can enter it under VoxelPrint Pro → License. Enter your license key and click Activate. An active license status enables automatic updates. Click Deactivate to release the license again (for example, before moving to another domain).

Setting Up a Product for 3D Printing

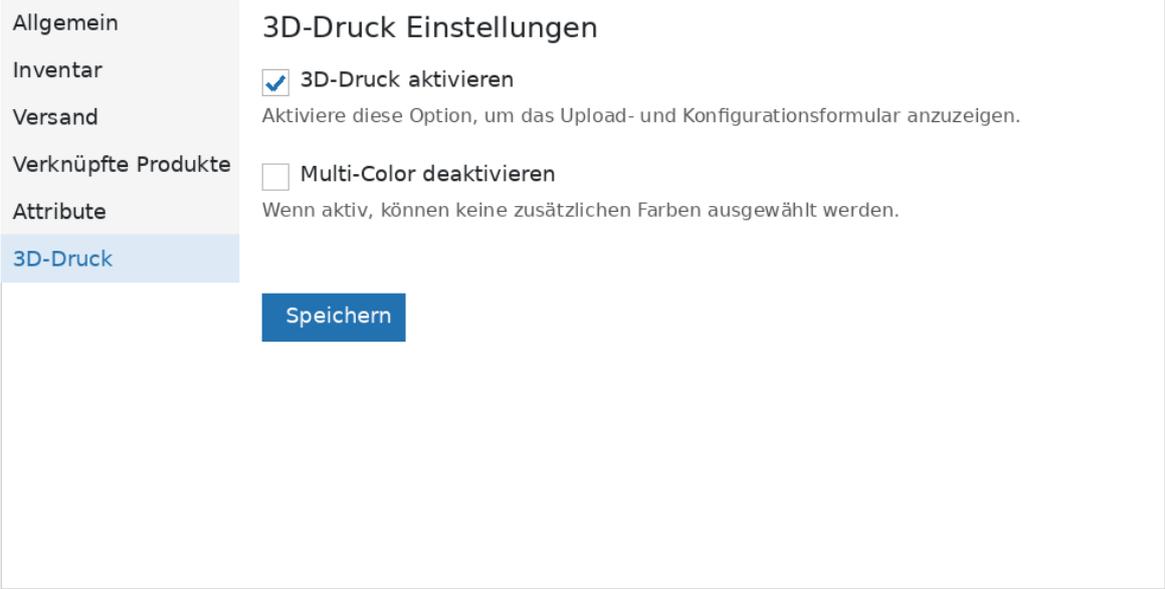
To allow customers to use the 3D printing service, you first need to create or edit a WooCommerce product:

- 1 Create a product: Go to Products → Add New (or edit an existing product).
- 2 Enable 3D printing: In the Product data panel, a new tab 3D Printing appears (see Figure 3). Open it and enable the checkbox Enable 3D printing. This will show the upload form and configurator on the product page.

- 3 Disable multi-color (optional): If you want to prevent multi-color printing for this product, enable Disable multi-color. Customers will then be limited to a single base color.
- 4 Save the product: Save or update the product. You do not need to set a price - VoxelPrint Pro calculates the total price dynamically.

3D printing tab in the product editor

Produkt bearbeiten



The screenshot shows the '3D-Druck Einstellungen' (3D-Printing Settings) tab in a product editor. On the left is a sidebar with navigation options: Allgemein, Inventar, Versand, Verknüpfte Produkte, Attribute, and 3D-Druck (which is highlighted). The main content area has the title '3D-Druck Einstellungen'. It contains two settings: '3D-Druck aktivieren' (checked) with the description 'Aktiviere diese Option, um das Upload- und Konfigurationsformular anzuzeigen.', and 'Multi-Color deaktivieren' (unchecked) with the description 'Wenn aktiv, können keine zusätzlichen Farben ausgewählt werden.' At the bottom of the settings area is a blue 'Speichern' (Save) button.

Figure 3: The “3D Printing” tab with options to enable the service and disable multi-color.

How Customers Use 3D Printing on the Frontend

When a product has the 3D printing service enabled, a multi-step configurator appears on the product page (Figure 4). The steps guide customers through the complete process:

- 1 Step 1: Upload 3D file - The customer uploads an STL, OBJ, 3MF, or another compatible file.
- 2 Step 2: Choose material - The customer selects the desired material from the dropdown. Only materials defined in Material Management are available.
- 3 Step 3: Choose base color - The customer selects a base color. Available colors are displayed as color swatches.
- 4 Step 4: Configure 3D object - The customer can adjust the size, set the infill, and (if allowed) assign additional face colors by clicking the model in the viewer.

- Step 5: Price summary - All parameters are summarized at the end. The price is calculated based on material, volume, time, setup fee, and any color surcharges. The item can then be added to the cart.

Frontend configurator

Produkt konfigurieren

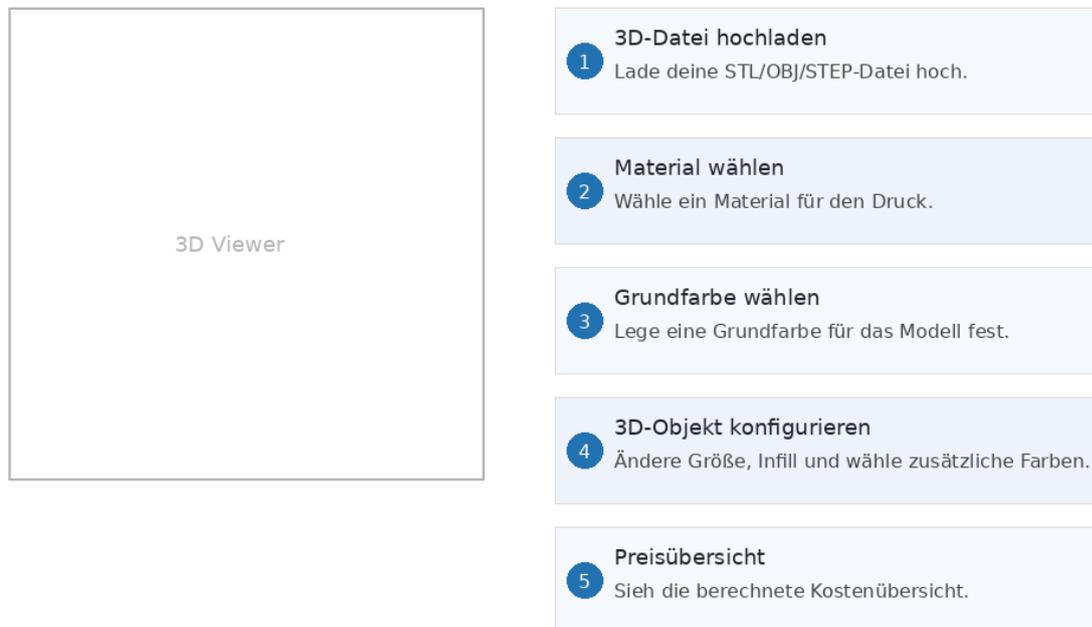


Figure 4: The multi-step configurator from the customer's perspective.

The 3D viewer displays the uploaded model directly in the browser. Customers can rotate and zoom it and - if enabled - define colored faces. During configuration, VoxelPrint Pro updates the price summary in real time.

Tips and Best Practices

- **Optimize file sizes:** For faster load times and lower server load, encourage customers to optimize 3D models before upload (for example, remove unnecessary polygons).
- **Material and pricing strategies:** Use realistic densities and hourly rates to keep your pricing sustainable. Experiment with print speed to find a good balance between runtime and price.
- **Communicate color limits clearly:** If you limit the number of additional colors, make sure your notice text explains the reason in a customer-friendly way.

- Run test orders: Create a test product and place sample orders to verify the workflow from the customer's perspective.

FAQ

What happens if a customer uploads a file that is too large?

The print object's dimensions are checked. If they exceed the maximum values defined in the settings, the plugin automatically scales the model down to the maximum dimensions. The customer is informed that the model was adjusted.

Can I hide the 3D viewer?

Using the Show axes option, you can show or hide the orientation aids. Completely disabling the viewer is not recommended, because customers would not be able to preview the model.

How is the price updated when the customer changes the size?

Pricing is recalculated automatically after each change. As soon as the customer uploads the model or changes parameters such as size, infill, or color, the price summary is recalculated.

Support and Updates

If you have questions or run into issues, you can find help on the VoxelPrint Pro product page. Updates are also provided there:

- Product page: <https://www.voumedia.de/en/voxelprint-pro-english/>
- Updates: With a valid license key in the plugin license management, you receive new versions automatically. Check Dashboard → Updates regularly to see if a new version is available.

We hope this guide helps you get started with VoxelPrint Pro and wish you great success with your 3D printing projects!