



# Configurable Products Setup

KatanaPIM for Magento 2

Setting up two-dimensional configurable products (like shoes with Color AND Size) in [KatanaPIM Connect](#). This guide explains how to structure products in KatanaPIM with Parent and GrandParent relationships, and how to configure Magento to properly import them as configurable products with multiple variation attributes.

## Understanding the Product Hierarchy

KatanaPIM uses a three-level hierarchy for products with multiple variation dimensions:

KatanaPIM Type	Example	Magento Product
<b>GrandParent</b>	"Running shoes"	Configurable Product
<b>Parent</b>	"Running shoes - Red"	<b>No product created</b> (data only)
<b>Child</b>	"Running shoes - Red - 43"	Simple Product

**Important:** Parent products appear in the KatanaPIM grid but **no Magento product is created** for them. Parents serve as data containers that hold the first variation attribute value (e.g., Color). This value is inherited by their Child products.

### Visual example - Running shoes with Color and Size:

```

KatanaPIM Structure:
-----
GrandParent: Running shoes (SKU: 000-RS)
├── Parent: Running shoes - Blue (SKU: 000-RS-B) [Color: Blue]
│   ├── Child: Running shoes - Blue - 42 (SKU: 000-RS-B-42) [Size: 42]
│   ├── Child: Running shoes - Blue - 43 (SKU: 000-RS-B-43) [Size: 43]
│   └── Child: Running shoes - Blue - 44 (SKU: 000-RS-B-44) [Size: 44]
├── Parent: Running shoes - Red (SKU: 000-RS-R) [Color: Red]
│   ├── Child: Running shoes - Red - 42 (SKU: 000-RS-R-42) [Size: 42]
│   ├── Child: Running shoes - Red - 43 (SKU: 000-RS-R-43) [Size: 43]
│   └── Child: Running shoes - Red - 44 (SKU: 000-RS-R-44) [Size: 44]
└── Parent: Running shoes - Yellow (SKU: 000-RS-Y) [Color: Yellow]
    ├── Child: Running shoes - Yellow - 42 (SKU: 000-RS-Y-42) [Size: 42]
    ├── Child: Running shoes - Yellow - 43 (SKU: 000-RS-Y-43) [Size: 43]
    └── Child: Running shoes - Yellow - 44 (SKU: 000-RS-Y-44) [Size: 44]
    
```

### In Magento, this becomes:

```

Magento Structure:
-----
Configurable: Running shoes (SKU: 000-RS)
    
```

```
├─ Simple: Running shoes - Blue - 42 (Color: Blue, Size: 42)
├─ Simple: Running shoes - Blue - 43 (Color: Blue, Size: 43)
├─ Simple: Running shoes - Blue - 44 (Color: Blue, Size: 44)
├─ Simple: Running shoes - Red - 42 (Color: Red, Size: 42)
├─ Simple: Running shoes - Red - 43 (Color: Red, Size: 43)
├─ Simple: Running shoes - Red - 44 (Color: Red, Size: 44)
├─ Simple: Running shoes - Yellow - 42 (Color: Yellow, Size: 42)
├─ Simple: Running shoes - Yellow - 43 (Color: Yellow, Size: 43)
├─ Simple: Running shoes - Yellow - 44 (Color: Yellow, Size: 44)
```

The GrandParent becomes the configurable product, and all Children become its simple product variants. **Parent products are skipped** - they only exist to organize the hierarchy and pass Color values to Children.

## Prerequisites in KatanaPIM

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Before importing, ensure your KatanaPIM products are structured correctly:

### 1. Product Structure

- **GrandParent products** must exist as the top-level product (the "master" product)
- **Parent products** must have a `ParentId` pointing to the GrandParent
- **Child products** must have:
  - A `ParentId` pointing to their Parent
  - A `GrandParentId` pointing to the GrandParent

### 2. Variation Attributes

Each level holds specific variation attribute values:

- **GrandParent:** No variation attributes (this is the base product)
- **Parent:** First variation attribute value (e.g., Color = "Red")
- **Child:** Second variation attribute value (e.g., Size = "43")

**Attribute inheritance:** Children inherit the Color value from their Parent. So a Child under "Running shoes - Red" automatically gets Color = "Red", and you only need to set Size = "43" on the Child itself.

This means when the Child is created in Magento, it will have both attributes:

- Color: Red (inherited from Parent)
- Size: 43 (set on Child)

### 3. Verify in KatanaPIM

Check your product structure in KatanaPIM:

1. Open a Child product
2. Verify it has both `ParentId` and `GrandParentId` fields populated
3. Check that variation attributes (Color, Size) have values

## Step 1: Import Attributes from KatanaPIM

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First, import all attributes including your variation attributes.

1. Navigate to **Katana PIM → Attributes**
2. Click **Import Attributes**
3. Wait for import to complete
4. Locate your variation attributes (e.g., "Color", "Size")

## Step 2: Mark Attributes as Configurable

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This is the crucial step. Attributes used for product variations **MUST** be marked as configurable.

1. In **Katana PIM → Attributes** grid
2. Find your first variation attribute (e.g., "Color")
3. Click the **Magento Attribute Code** cell
  - Select existing Magento attribute OR
  - Select "Create New" to auto-create
4. Click the **Is Configurable** cell
5. Set to **Yes**
6. Repeat for all variation attributes (e.g., "Size")

### Example configuration:

Katana Attribute	Magento Attribute	Is Configurable
color	color	<b>Yes</b>
size	size	<b>Yes</b>
brand	brand	No
material	material	No

**Important:** If "Is Configurable" is not set to Yes, the module cannot create configurable product relationships.

### Step 3: Create Magento Attributes

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After mapping and setting "Is Configurable = Yes", create the attributes in Magento:

1. Select the mapped variation attributes (checkboxes)
2. Use mass action **Update/Create Magento Attribute**

The module automatically:

- Creates attributes with `katanapim_` prefix if they're new
- Sets "Use in Configurable Products" to Yes for attributes marked as configurable
- Sets the correct input type (Dropdown)

### Step 4: Import Products

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Now import the products from KatanaPIM.

1. Navigate to **Katana PIM → Products**
2. Click **Sync Full** to import all products
3. Wait for import to complete

After import, you'll see products with different "Katana Type" values:

- **GrandParent** - Your master configurable products
- **Parent** - Intermediate level (color variants in our example) - **appears in grid but no Magento product is created**
- **Child** - The actual simple products with all variations

**What you'll see in the grid:**

Name	SKU	Katana Type	Type (Magento)
Running shoes	000-RS	GrandParent	Configurable Product
Running shoes - Blue	000-RS-B	Parent	<i>(empty - no product)</i>
Running shoes - Red	000-RS-R	Parent	<i>(empty - no product)</i>
Running shoes - Blue - 42	000-RS-B-42	Child	Simple Product
Running shoes - Red - 43	000-RS-R-43	Child	Simple Product

Notice that Parent rows have an empty "Type" column - this is expected. The module uses Parents only for data inheritance (the Color attribute), not for creating products.

## Step 5: Create Magento Products

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Create products in the correct order:

### Automatic Creation

If **Auto create new products** is enabled in Automation settings:

- Products are created automatically during sync
- The module handles the correct creation order
- Parent products are automatically skipped (no Magento product needed)

### Manual Creation

If creating manually:

1. **First:** Select all **Child** products → **Update/Create Magento Products**
2. **Second:** Select all **GrandParent** products → **Update/Create Magento Products**
3. **Skip:** Parent products - do not create them (they're data containers only)

**Why this order?** The configurable product (GrandParent) needs its simple products (Children) to exist first so it can link them as variants.

**Tip:** You can filter by "Katana Type" to easily select all Children or all GrandParents.

## Verifying the Setup

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After creation, verify in Magento:

### Check Configurable Product

1. Go to **Catalog** → **Products**
2. Find your GrandParent product (e.g., "Running Shoe")
3. Verify **Type** is "Configurable"
4. Edit the product
5. Go to **Configurations** section
6. Verify all child products are linked
7. Verify variation attributes (Color, Size) are shown

### Check on Frontend

1. Navigate to the product page
2. Verify both variation dropdowns appear (e.g., Color and Size)
3. Test selecting different combinations
4. Verify correct SKU/price updates per selection

## Common Configurations

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### Two Variations: Color + Size (Apparel/Footwear)

Attribute	Type	Is Configurable
color	Dropdown/Swatch	Yes
size	Dropdown/Swatch	Yes

### Two Variations: Material + Length (Hardware)

Attribute	Type	Is Configurable
material	Dropdown	Yes
length	Dropdown	Yes

### Two Variations: Flavor + Package Size (Food)

Attribute	Type	Is Configurable
flavor	Dropdown	Yes
package_size	Dropdown	Yes

## Troubleshooting

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### Configurable product not linking children

**Symptoms:** GrandParent creates as configurable but has no variants

**Solutions:**

1. Verify Children were created first (check Magento Product ID in grid)
2. Check "Is Configurable" is Yes for variation attributes in the Attributes grid

3. Re-run sync: Select GrandParent → **Update/Create Magento Products (force)**

#### **If still not working:**

##### **1. Recreate the Magento attributes:**

- Go to **Katana PIM → Attributes**
- Select the variation attributes
- Use mass action **Update/Create Magento Attribute**
- This ensures attributes are created with correct settings

##### **2. Check debug logs for errors:**

- Enable debug mode: **Stores → Configuration → Katana PIM → General → Debug Mode → Yes**
- Re-run the sync
- Check logs at `var/log/katanapim/debug.log` and `var/log/katanapim/error.log`
- Look for attribute or configurable product related errors

##### **3. Verify Magento attribute settings manually:**

- Go to **Stores → Attributes → Product**
- Find your variation attributes (e.g., `color`, `size`)
- Confirm **Catalog Input Type for Store Owner** is "Dropdown" or "Visual Swatch"
- Confirm **Use in Configurable Products** is set to "Yes"
- If you had to change these, re-sync the GrandParent product

## **Products created as Simple instead of Configurable**

**Symptoms:** GrandParent product is Simple, not Configurable

#### **Solutions:**

1. Check product has correct Katana Type = "GrandParent" in grid
2. Verify GrandParentId is set on Child products in KatanaPIM
3. Delete the incorrectly created Magento product
4. Fix the KatanaPIM structure
5. Re-sync and recreate

## **Missing variation attribute in dropdown**

**Symptoms:** Only one variation shows on frontend (e.g., Color but not Size)

#### **Solutions:**

1. Verify both attributes are marked "Is Configurable = Yes"
2. Check Magento attribute settings (must be Dropdown type)
3. Ensure Child products have values for both attributes
4. Re-sync the GrandParent product

## Children showing wrong GrandParent relationship

**Symptoms:** Products linked to wrong configurable parent

**Solutions:**

1. Check `GrandParent ID` column in Products grid (enable if hidden)
2. Verify KatanaPIM data has correct GrandParentId values
3. Delete and re-import affected products

## Products Grid Columns

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Enable these hidden columns for debugging configurable products:

Column	What it shows
<b>Parent ID</b>	KatanaPIM Parent ID (first level parent)
<b>GrandParent ID</b>	KatanaPIM GrandParent ID (top level)
<b>Katana Type</b>	Simple, Child, Parent, or GrandParent
<b>Type</b>	Resulting Magento product type

To enable: Click **Columns** button in grid toolbar → check the columns you need.

## Need More Help?

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**Documentation:**

- [All Help Articles](#) - Complete documentation overview

**Support:**

- [Contact Support](#) - Get help from our team

For a complete overview of features and configuration options, see the KatanaPIM extension on [magmodules.eu](http://magmodules.eu)

# All articles for KatanaPIM

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## Installation

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1	<a href="#">Installation using Composer (recommended)</a>
2	<a href="#">Install through FTP and SSH</a>

## Configuration

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1	<a href="#">Quick Start Guide</a>
2	<a href="#">Configuration</a>
3	<a href="#">Categories Grid</a>
4	<a href="#">Attribute Mapping</a>
5	<b><a href="#">Configurable Products Setup (current)</a></b>

## Troubleshooting

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1	<a href="#">Troubleshooting</a>
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## Grids

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1	<a href="#">Products Grid</a>
2	<a href="#">Attributes Grid</a>
3	<a href="#">Assets Grid</a>
4	<a href="#">Sync Log Grid</a>

## Background

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1	<a href="#">CLI Commands</a>
2	<a href="#">Cron Jobs</a>

3	<a href="#">Product to Website Matching</a>
4	<a href="#">Understanding the Sync Process</a>

