

# **Variant Configuration (VC)**

The case study describes the creation of a configurable product and its use in an integrated discrete manufacturing process for a make-to-order customer. It shows the possibilities of simplifying master data by adding characteristics, which allows a product to have different characteristics.

#### **Product**

S/4HANA 2022 Global Bike

Fiori 3.0

#### Level

Undergraduate Graduate Beginner

#### **Focus**

Variant Configuration

#### **Authors**

Cordula Boden Katrin Elsner-Dittrich Marcel Himburg

#### Version

4.2

#### **Last Update**

September 2023

#### **MOTIVATION**

After you have only displayed data such as bills of materials and routings in the

-control exercises, this case study is about creating a configurable product and using it in an integrated process from sales order to production.

You will create new characteristics, classes, and material master records and relate them to each other to ensure configurability from product selection to BOM explosion.

#### **PREREQUISITES**

Before you use this case study, you should be familiar with navigation in the SAP system.

In order to successfully work through this case study, it is not necessary to have finished the PP exercises (PP 1 through PP 6). However, it is recommended.

#### NOTES

This case study uses the Global Bike data set.





# Process Overview

**Learning Objective** Create and understand variant configuration and maketo-order production.

Time 120 min

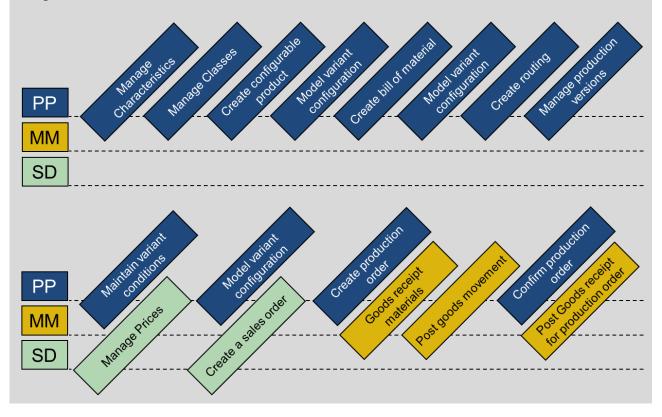
**Scenario** To handle a complete customer make-to-order process, you will take on different roles within Global Bike, such as warehouse worker and production manager. Overall you will work in the departments Production Planning (PP), Materials Management (MM) and Sales and Distribution (SD).

**Employees involved** Jun Lee (Production Manager)

Lars Iseler (Shop Floor Worker 2) Susanne Castro (Goods Receipt Clerk) Sanjay Datar (Warehous Employee)

Jamie Shamblin (Controller)

You start preparing the variant configuration by defining characteristics and classes. These are used to create a configurable product that is supplemented by a maximum bill of material and a routing. Once variant configuration is complete, the configurable material is ordered as part of a sales order and produced as make-to-order.



## Table of Contents

Process Overview	2
Step 1: Manage Characteristics	4
Step 2: Manage Classes	7
Step 3: Create configurable product	9
Step 4: Model variant configuration.	14
Step 5: Create bill of material	17
Step 6: Model variant configuration.	20
Step 7: Create routing	26
Step 8: Manage production versions	28
Step 9: Maintain variant conditions	30
Step 10: Manage Prices	31
Step 11: Model variant configuration	33
Step 12: Create a sales order	35
Step 13: Create production order	37
Step 14: Goods receipt materials	39
Step 15: Post goods movement	42
Step 16: Confirm production order	45
Step 17: Post Goods receipt for production order	47



### Step 1: Manage Characteristics

**Task** Prepare a characteristic for variant configuration.

Time 10 min

**Short Description** To be able to configure a Global Bike's Deluxe Touring Bike, features must be prepared. These can then be assigned to a product.

Name (Position) Jun Lee (Production Manager)

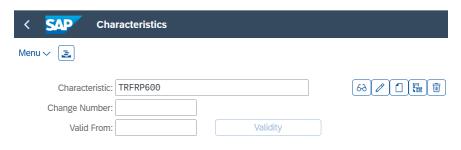
To create a new characteristic, use the *Manage Characteristics* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

Manage Characteristics



Enter **TRFRP**### (replace ### with your three-digit number) as the new Characteristic.

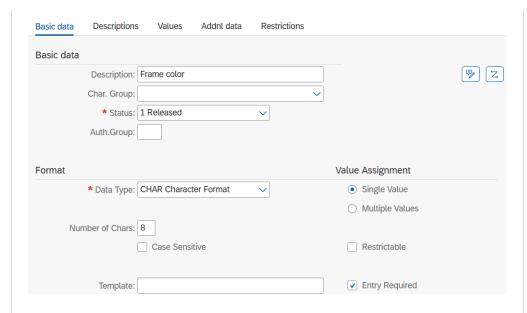
TRFRP###



Press to create the Characteristic.

In the *Basic data* tab, enter **Frame color** as a *Description* Check that **Released** is selected as the *Status*. Then select **CHAR** as the *data type*, enter **8** as the *number of Chars* and select the options **Entry required**.

Frame color Released Char 8 Entry required



Switch to the Descriptions tab. Add the description Rahmenfarbe for the DE language.

DE Rahmenfarbe

Bas	c data	Descriptions Values Add		Addnl data	Restrictions
Des	criptions	and headings			
	Langu	Description			
	EN	Frame color			
	DE	Rahmenfarbe			

Switch to the *Values* tab. For the Char. Value, we will use the existing Touring Bike frames as a guide:

Touring Bike Frame - Black - TRFR1###

Touring Bike Frame - Silver - TRFR2###

Touring Bike Frame - Red - TRFR3###

The different colors can be recognized by the consecutive number. This principle is supernumerary. To do this, enter the following characteristic values:

Char. Value	Description
TRFR1###	Black
TRFR2###	Silver
TRFR3###	Red

Black Silver Red

**Note** The characteristic values and the material numbers of the frames are identical in this example. However, they are two values that are detached from each other and can also differ from each other.

Navigate to  $menu \rightarrow Extras \rightarrow Change language$ . A popup will open, select **DE** and press  $\checkmark$  to accept the selection.

DE

Now enter the German Description:

Schwarz
Silbe
Po

Char. Value	Description
TRFR1###	Schwarz
TRFR2###	Silber
TRFR3###	Rot

Press Save to save your entries.

Click sap to return to the SAP Fiori Launchpad.

 $\neg$ 



### Step 2: Manage Classes

Task Create a class and assign a characteristic.

Time 5 min

**Short Description** Classes are used to group one or more characteristics together and can then be assigned to a material. It is also possible to use classes in BOMs to then select linked materials depending on the selection.

Name (Position) Jun Lee (Production Manager)

To create a class, use the *Manage Classes* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

Manage Classes



Enter **TRFRC**### as the *class* and **300** as the *class type*.

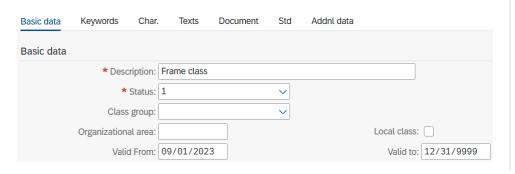
TRFRC### 300



Press 1 to create the Characteristic.

In the *Basic data* tab, enter **Frame class** as the *description*. Check that **1** is selected as the *status*.

Frame class



Switch to the *Char*. tab and enter the newly created characteristic **TRFRP**###. TRFRP### Press Enter. Basic data Keywords Char. Texts Document Std Addnl data Char. Description Data ... Nu... De... Unit Re... TRFRP600 Frame color CHAR 8 Switch to the Additional data tab. Enter EA for Base unit of measure and L EΑ for Res. item category. Then select Required component. Required component Basic data Keywords Char. Texts Document Std Addnl data Use of class Allowed in BOMs: Low-level code: Default data for component Base Unit of Measure: EA Res. item category: L Organizational area: Required Component: <a></a> Multiple Selection: Press Save to save your entries. Click to return to the SAP Fiori Launchpad.



### Step 3: Create configurable product

**Task** Create a configurable product.

Time 10 min

**Short Description** Based on a Deluxe Touring Bike, a configurable material will be created that includes the previously defined class. This product will then map all possible Deluxe Touring Bike versions. However, for the sake of simplicity, the new product will only be created in the HD00 plant.

Name (Position) Jun Lee (Production Manager)

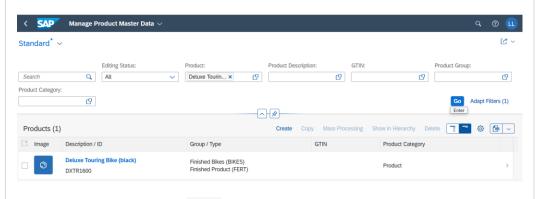
To create a configurable product, use the *Manage Product Master Data* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

Manage Product Master Data



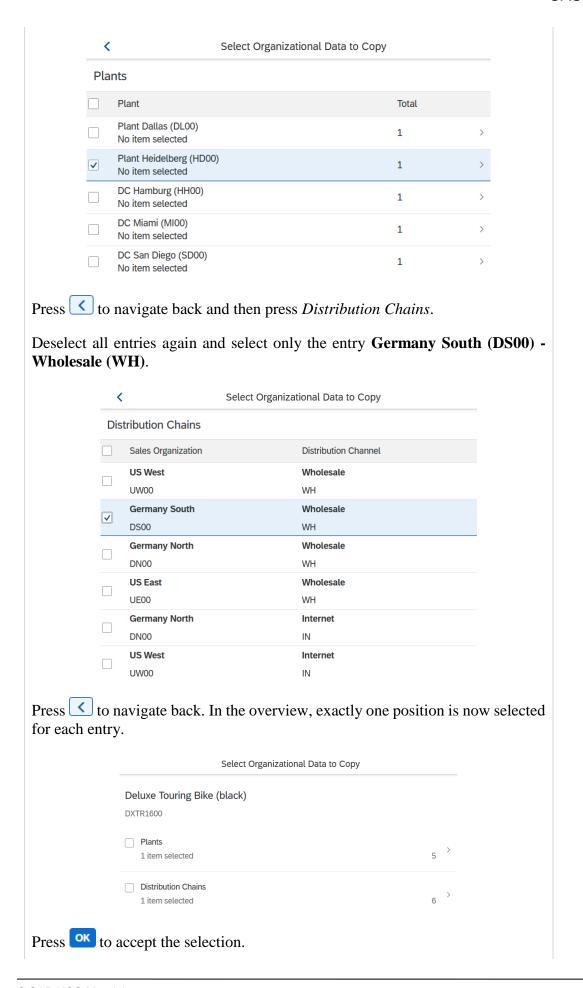
Enter **DXTR1**## in the *Product* field and press Go. The corresponding data record is displayed.

DXTR1###



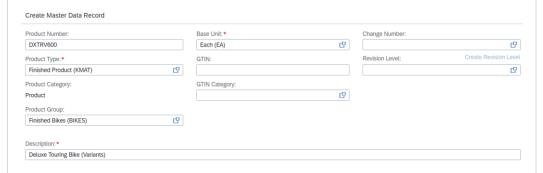
Select the entry and press Copy, the Select organizational data to copy popup opens.

Click on the entry *Plants*, all plants defined for DXTR1## are listed. Deselect all entries and select only the entry **Plant Heidelberg** (**HD00**).



Enter **DXTRV**### for *product number*, select **Configurable Materials** (**KMAT**) as *product type* and change *description* to **Deluxe Touring Bike** (**Variants**).

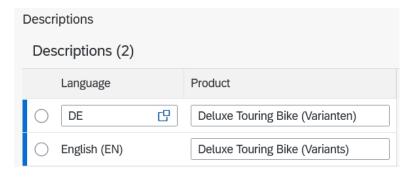
DXTRV### KMAT Deluxe Touring Bike (Variants)



Confirm your entries with OK. The copied master data record is now displayed.

In the *Descriptions* section, delete the entry for the languages RU and FR by selecting them and clicking on Delete. Then change the entry for the DE language to **Deluxe Touring Bike (Varianten)**.

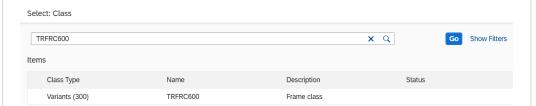
Deluxe Touring Bike (Varianten)



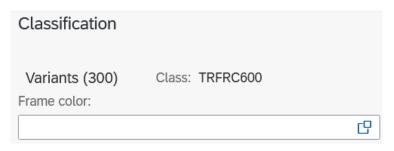
Select the *Classification* area, the window will automatically scroll to the correct position.

Click on Click here to assign a class., a selection window opens. Search for your class **TRFRC**###.

TRFRC###



Select your class, it will be added to the master record.



Planned Disposition Make-to-order for

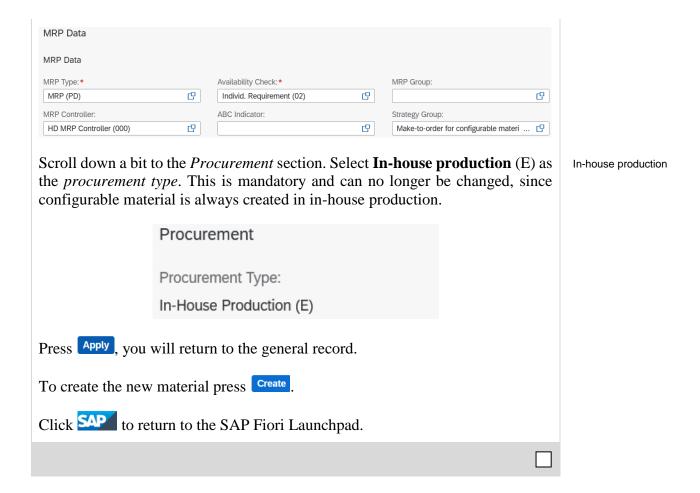
configurable material

So that a selection can be made later, the desired values of the characteristic must still be selected. To do this, press 🖵 to open the input help. Then select all the predefined values. Frame color Search Q Selected: 3 **Predefined Values** ✓ Black **✓** Silver ✓ Red Press Select to accept the values. Classification Variants (300) Class: TRFRC600 Frame color: Black x Silver x Red x 맙 Select the Distribution Chains section, the window will automatically scroll to the correct position. Only the pre-selected distribution Ichains DS00 - WH was taken over. Distribution Chains Distribution Chains (1) Sales Organization Distribution Channel Sales Unit Variable Sales... Delivery Plant Delivery Unit O DS00 C WH G HD00 0.000 Click on at the end line to open the details. Select the Grouping terms area and choose Configuration (0002) as the item Configuration (0002) category group. Product Pricing Group: Item Category Group: \* C Configuration (0002) CD Press Apply, you will return to the general record. Open the details of the HD00 plant. The *Plants* area is located directly below the Distribution Chains area. To do this, click > at the end line.

© SAP UCC Magdeburg Page 12

Select the MRP Data area. Change the MRP type to **Planned Disposition (PD)** 

and select **Make-to-order for configurable material (25)** as the *strategy group*.





### Step 4: Model variant configuration

Task Create a configuration profile.

Time 5 min

**Short Description** The configurable product requires a configuration profile to resolve the characteristics of the class at runtime and offer them as choices.

Name (Position) Jun Lee (Production Manager)

To model variant configuration, use the *VC Modeling Environment* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

VC Modeling Environment

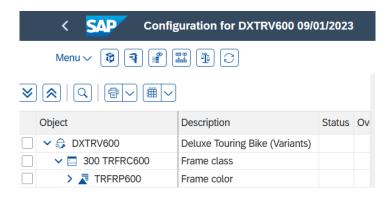
VC Modeling Environment

Enter your configurable material **DXTRV**### for *Material* and verify that **300** is selected as the *class type*.

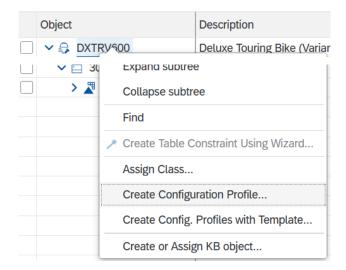
DXTRV### 300

SAP Initial Screen of Variant Configuration Modeling Environment	< SAP Initia
Menu ✓ (Ç	Menu ✓ 🕞
* Material: DXTRV600	* Mater
- · [00/04/0000]	_
Date: 09/01/2023  Change No.:	
* Class Type: 300 Variants	* Class Ty
Plant:	
BOM Application:	BOM Applicati
ress to enter the model.	Press 😉 to enter the r
ou will be shown the configuration for your configurable material.	You will be shown the

The *DXTRV##* object represents the Configurable product. The class (300 TRFRC##) is located below it. You can also expand the individual elements to view their structure.

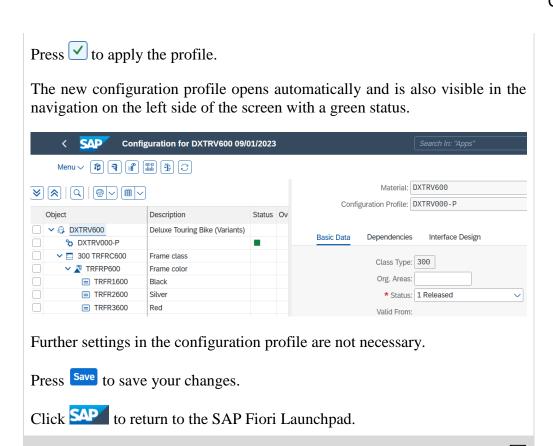


Right-click on the *DXTRV*### entry to open the corresponding context menu.



Select *Create configuration profile*, a new window opens. Enter **DXTRV000- P** for *Configuration profile*.

Create Configuration Profile		,
	terial: DXTRV600  Type: 300	
* Configuration Pr	rofile: DXTRV000-P	
Engineering Change Managem	nent	
Without Change No.		
With Change No.		
BOM Explosion		
BOM Must Not Be Exploded	for Material	
BOM Must Be Exploded		
* BOM Applic	ation:	





### Step 5: Create bill of material

Task Create maximum bill of material.

Time 5 min

**Short Description** For the configurable Deluxe Touring Bike, a maximum bill of materials must be defined that includes all possible components.

Name (Position) Jun Lee (Production Manager)

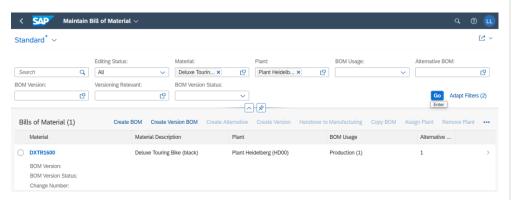
To customize the BOM, use the *Maintain BOM* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

Maintain BOM



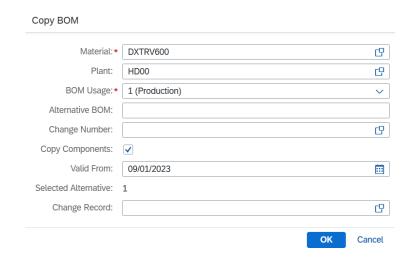
Enter **DXTR1**### in the *Material* field and **HD00** in the *Plant* field. Press , the corresponding bill of material will be displayed.

DXTR1### HD00



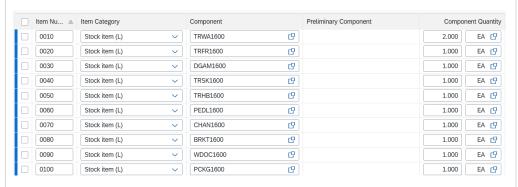
Select the entry and press Copy BOM. In the window that opens, enter **DXTRV**### for *material* and **HD00** for *plant* and select **1** (**Production**) as the *BOM usage*.

DXTRV### HD00

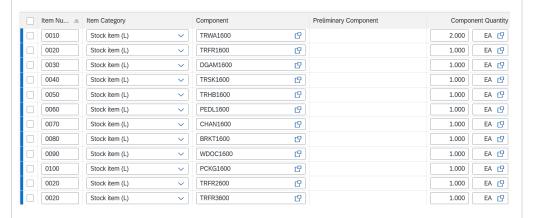


Press ok to accept the entries.

You will see the bill of materials with its components.

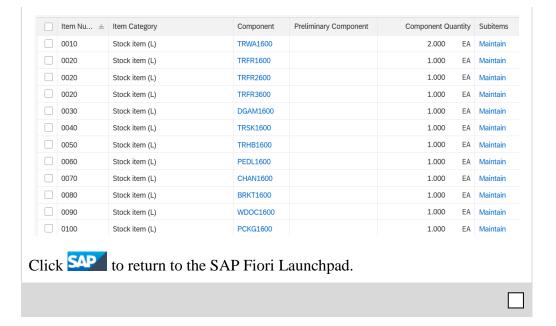


To match this to the configurable product, change the free positions 0110 and 0120 to 0020, then TRFR2### and TRFR3### as component with a component quantity of 1 EA each.



Press Create to save the new parts list. After saving, the new entries are also displayed sorted by item number.

0020 TRFR2### 1 EA 0020 TRFR3### 1 EA





### Step 6: Model variant configuration

Task Create object dependencies for the super bill of material..

Time 15 min

**Short Description** In order for the characteristic selection to have a dynamic effect on the maximum bill of material, the characteristic values must be linked to the components of the bill of material. Depending on the selected characteristic, the appropriate touring bike frame is then used.

Name (Position) Jun Lee (Production Manager)

To model variant configuration, use the *VC Modeling Environment* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

VC Modeling Environment

VC Modeling Environment

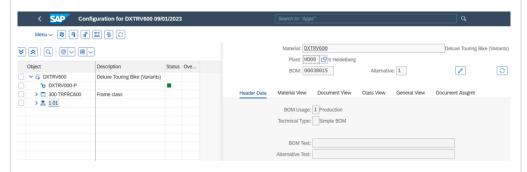
Enter your configurable material **DXTRV**### for *Material*. Check that **300** is selected as the *class type* and enter **HD00** for *Plant*, and **PP01** for *BOM Application*.

DXTRV### 300 HD00 PP01

< SAP Initial Sc	reen of Variant Configuration Modeling Environment
Menu ✓ (🕒	
* Material:	DXTRV600
Date:	09/01/2023
Change No.:	
* Class Type:	300 Variants
Plant:	HD00
BOM Application:	PP01
Press to enter the mod	el.

The configuration for your configurable material is displayed. In addition to the frame class and the configuration profile created, the list (101) is now also displayed.

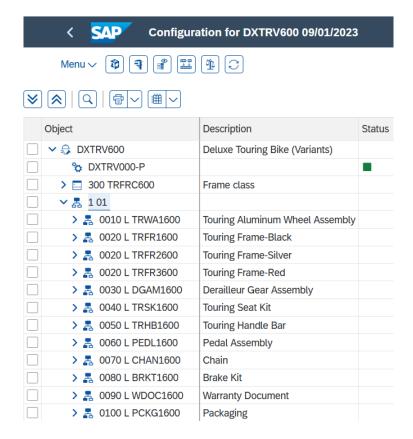
Double-click on the list (1 01) in the object list to open its details.



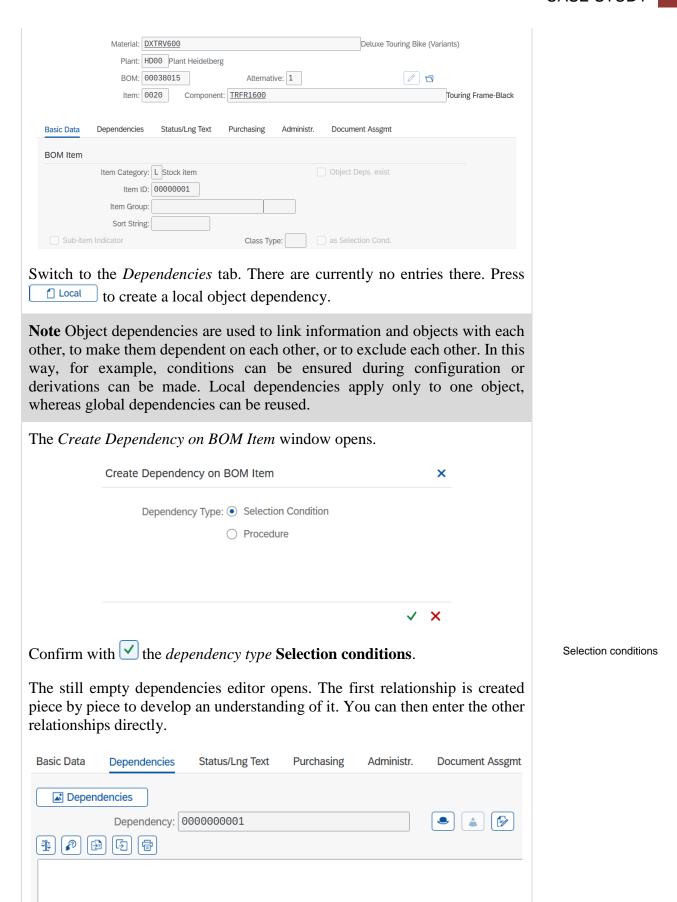
Press to activate the edit mode.

A message appears. Leave the selection at *Without change no.* and confirm with  $\checkmark$ .

Now expand the list  $(1 \ 01)$  in the object list to see the individual items.



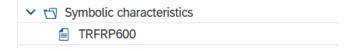
Double-click on 0020 L TRFR1### in the object list to open the details of the position.



The dependencies editor provides context-sensitive input help to create dependencies. Press of to access the syntax help.



You will see the different options Operators, Punctuation, Keywords and Symbolic characteristics. Expand the entry for the Symbolic characteristics.



You will see your characteristic *TRFRP##*. Select it by double-clicking, it will be transferred to the dependency editor.



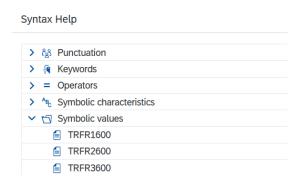
Press again to call the syntax help. This time you will be offered a small selection of possibilities, since at the point only an operator or a keyword can follow for a syntactically correct relationship.



Expand operators and insert = (equal sign) by double-click.



Press again ot call the syntax help. In addition to the options listed at the beginning, symbolic values are now available. Expand them.



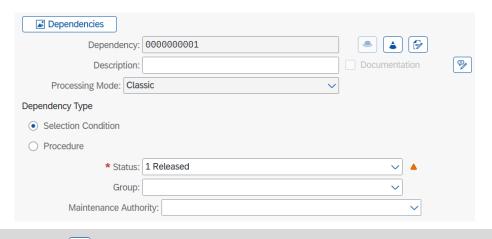
You will see characteristic values *TRFR1###*, *TRFR2###* and *TRFR3###*. Select *TRFR1###* by double-clicking it to take it over to the dependency editor.



The rule is now complete. If the characteristic TRFR1## is used, the component TRFR1## is selected for the BOM.

Press • to switch to the basic data of the dependencies.

Enter **Frame - Black** as the *description* and select **1 Released** as the *status*.



Note With you can switch back to the editor.

Repeat the procedure for 0020 L TRFR2## and 0020 L TRFR3##.

Use the following rules and description:

0020 L TRFR2###

Rule: TRFRP### = 'TRFR2###'.

Description: Frame - Silver

0020 L TRFR3###

Rule: TRFRP### = 'TRFR3###'.

Description: Frame - Red

Press Save to save your changes.

Click SAP to return to the SAP Fiori Launchpad.



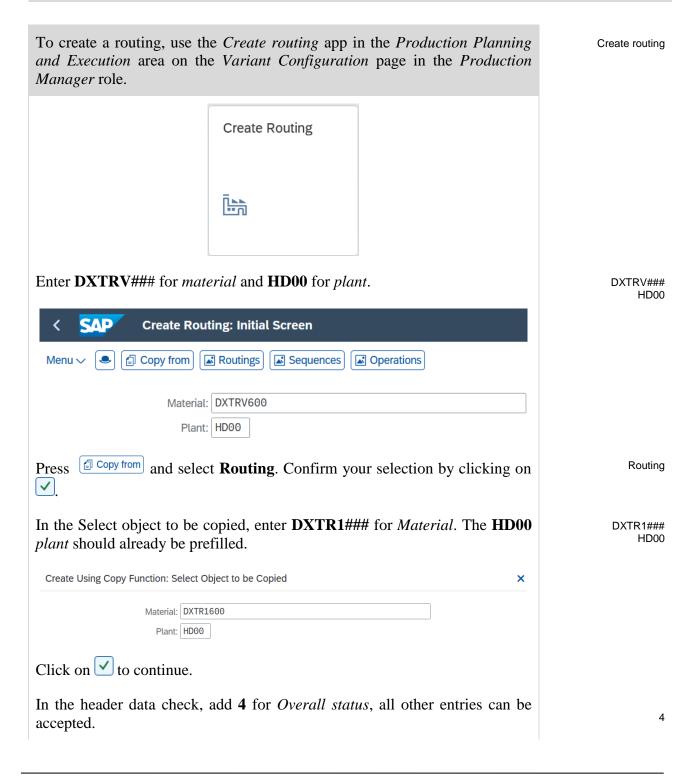
### Step 7: Create routing

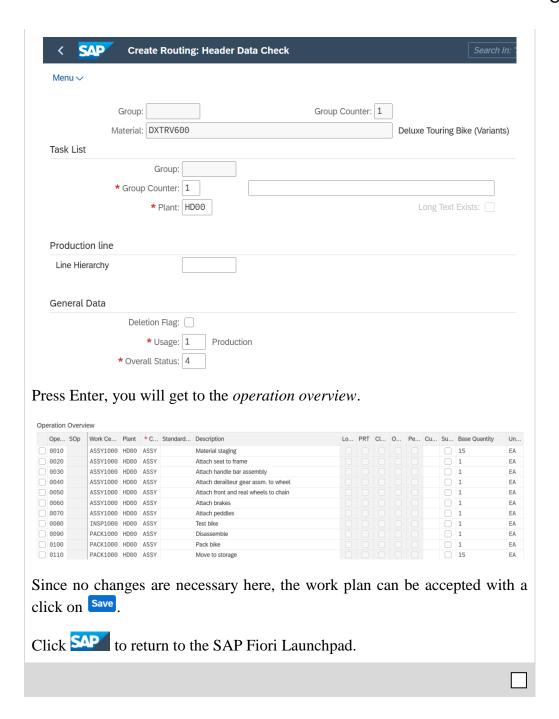
**Task** Create a work plan for the new product.

Time 5 min

**Short Description** For production, the configurable Deluxe Touring Bike requires a work plan. This is created on the basis of the existing routings of other Deluxe Touring Bikes.

Name (Position) Jun Lee (Production Manager)







#### Step 8: Manage production versions

**Task** Create a manufacturing version for your configurable Deluxe Touring Bike.

Time 5 min

**Short Description** After the maximum BOM and routing are created, a production version is created for the configurable Deluxe Touring Bike. This combines the maximum BOM and the routing so that they are used for production.

Name (Position) Jun Lee (Production Manager)

To create a production version, use the *Manage Production Versions* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

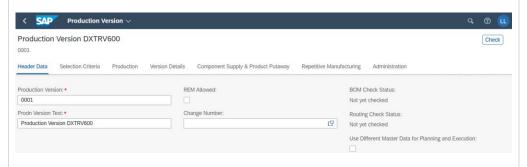
Monitor Stock/Requirements List



Press Create a new production version.

Enter **0001** as *Production version* and **Production Version DXTRV**### for *Production Text*.

0001 Production Version DXTRV###



In the *Selection Criteria* area, add **DXTRV**### for *Material*, **HD00** for *Plant*, and **1** for *Minimum Lot Size*.

 Selection Criteria

 Material: \*
 Validity Start Date:
 Minimum Lot Size:

 DXTRV600
 CP
 09/01/2023
 EII
 1.000 

 Plant: \*
 Validity End Date:
 Maximum Lot Size:

 P1 (Pant Heidelberg (HD00))
 CP
 12/31/9999
 EII
 99,999,999.000 

 Lock Status:
 Validity End Date:
 P1
 P2
 P3
 P3

DXTRV### HD00

In the subsequent *Production* area, select **1** as the *Alternative BOM*, **Production** is automatically added for *BOM Usage*.

Select **Routing** as the *task list type*. For the *task list group*, use the possible entries help to select **your task list group**, the task list *group counter* is automatically supplemented with **1**.



**Note** Loading animations that occur in some fields do not affect the result and you can continue working.

Press Create to save the production version.

Then look again at the header data of your production version. Both the *BOM* check status and the Routing check status should now both show last check OK.



Click sap to return to the SAP Fiori Launchpad.

1 Production

Routing your task list group

1



### Step 9: Maintain variant conditions

Task Create variant keys.

Time 5 min

**Short Description** Variant keys are required so that variant prices can be created. The variant keys are then also needed to link the variant prices with the characteristic values.

Name (Position) Jun Lee (Production Manager)

To create variant keys, use the *Maintain Variant Conditions* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

Maintain Variant Conditions

Maintain Variant Conditions Sales

Press New Entries to create your own variant closures.

Now enter the following variant key and associated discription:

Variant key	Description
TRFR1###	Touring Bike Frame - Black
TRFR2###	Touring Bike Frame - Silver
TRFR3###	Touring Bike Frame - Red

Note Although the variant keys are named like the associated raw materials, they are independent of each other. However, this makes assignment easier both technically and mentally.

Press Save to save the entries.

Click to return to the SAP Fiori Launchpad.



### Step 10: Manage Prices

**Task** Set prices for the product and its variants.

Time 10 min

**Short Description** A price is assigned for the configurable Deluxe Touring Bike, but additional variant prices are defined. This calculates the total price from the sum of the product price and the price of the selected feature.

Name (Position) James Shamblin (Head of Sales)

To set sales prices, use the *Manage Prices* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the Head of Sales role.

Manage Prices



Press Create new condition records.

The first step is to create the condition record for the new Deluxe Touring Bike (variants).

Enter **PR00** for *condition type*, **304** for *condition table*, **DS00** for *sales organization*, **WH** for *distribution channel*, and **DXTRV**### as *product*.

PR00 304 DS00 WH DXTRV###

The condition amount or ratio is set at **3,000.00 EUR**.

3,000.00 EUR



Press Save to save the condition record.

Repeat the process to create the condition records for the individual frame colors (the variants). For variant prices, the previously created variant keys are also required.

Use the following table for the individual entries:

Cond.Type <sup>1</sup>	Con.tbl <sup>2</sup>	Variant Key	Sales. org <sup>3</sup>	Dis.Channel <sup>4</sup>	Produkt	Amount <sup>5</sup>
VA00	057	TRFR1###	DS00	WH	DXTRV###	100 EUR
VA00	057	TRFR2###	DS00	WH	DXTRV###	60 EUR

VA00	057	TRFR3###	DS00	WH	DXTRV###	80 EUR
<sup>1</sup> = Condition Type						
<sup>2</sup> = Condition Table						
<sup>3</sup> = Sales Organization						
<sup>4</sup> = Distribution Channel						
<sup>5</sup> = Condition Amount or Ratio						

Press Save to save the condition record.

Click to return to the SAP Fiori Launchpad.



### Step 11: Model variant configuration

Task Define variant pricing..

Time 5 min

**Short Description** After variant prices have been created for the configurable Deluxe Touring Bike, they are linked to the characteristic values via the variant keys.

Name (Position) Jun Lee (Production Manager)

To model variant configuration, use the *VC Modeling Environment* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Production Manager* role.

VC Modeling Environment

VC Modeling Environment

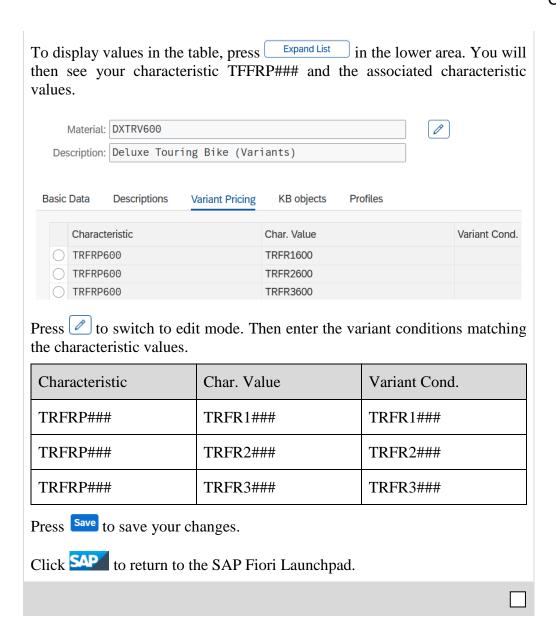
Enter your configurable material **DXTRV**### for *Material*. Check that **300** is selected as the *class type* and enter **HD00** for *Plant*, and **PP01** for *BOM Application*.

DXTRV### 300 HD00 PP01

	Search In: "Apps"
Menu ✓ (C)	
* Material: DXTRV600	Deluxe Touring Bike (Variants)
" Waterial.	Detake Touring bike (Variants)
Date: 09/01/2023	
Change No.:	
* Class Type: 300 Variants	
Plant: HD00 Plant Heidelberg	
BOM Application: PP01 Production - General	

You will be shown the configuration for your configurable material.

Double-click on *DXTRV###* to open the details on the right-hand side of the screen and switch to the *Variant pricing* tab.





### Step 12: Create a sales order

Task Create a sales order.

Time 10 min

**Short Description** After the new configurable Deluxe Touring Bike has been fully created, you create a sales order to order the product. Here you will see both the configuration options and the associated prices.

Name (Position) James Shamblin (Head of Sales)

To create a sales order, use the *Manage Sales Orders* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Head of Sales* role.

Manage Sales Orders



Click Create vales order VA01.

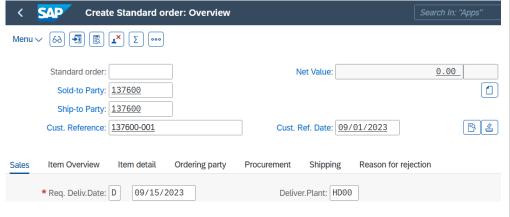
Enter **OR1** to create an Standard Order order and press Continue.

Enter **137**### for *Sold-to Party* and *Ship-to Party*, **137**##**-001** as the *Customer Reference*, and the **current date** for *Customer Ref.Date*. In the *Sales* tab, change the *requested delivery date* to **two weeks from today** and enter **HD00** as the *delivery plant*.

OR1

137### 137###-001

Current date Two weeks from today HD00



Press Enter, a window will open to specify the sales area. Select the combination DS00 / WH / BI - Germany South / Wholesale / Bicycles

On the *Sales* tab, in the *All Items* area, enter **DXTRV**### for *Material* and **10** as the *Order Quantity* in the first line.

DXTRV###

3



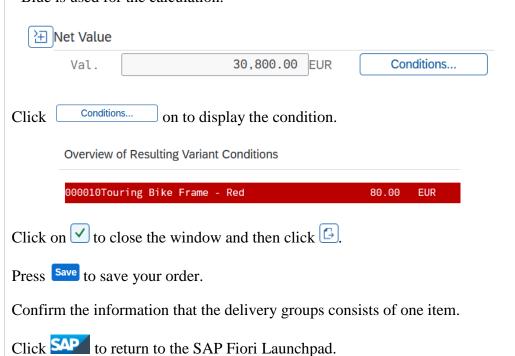
Press Enter. The *Create Standard order: Characteristic Value Assignment* screen appears.

Click on the value help icon in the *Characteristic value* field. Here you can see all available characteristic values and the associated condition.



Select **3 - Red** and press ✓ to confirm the selection.

Press to perform pricing. This time the condition for the Touring Bike Frame - Blue is used for the calculation.





## Step 13: Create production order

**Task** Create a production order based on the sales order.

Time 5 min

**Short Description** Since the configurable Deluxe Touring Bike is a custom build, no quantities are produced in advance. Accordingly, a production order must be created for the order placed.

Name (Position) Lars Iseler (Shop Floor Worker)

To create a production order, use the *Production Order with Sales Order* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Shop Floor Worker* role.

Production Order with Sales Order



Click in the *Sales order* field and select the value help . Enter **137**### for Sold-to Party and press . Your sales order is listed. Select the entry and press or to accept the sales order.

137###

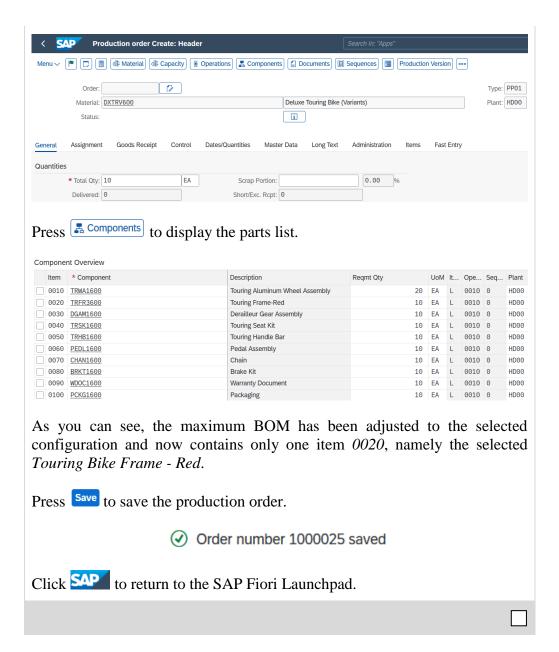
Enter 10 in the second field of the sales order, this is the position in the order.

HD00 PP01

10

Enter **HD00** for *production plant* and **PP01** for *order type*.

SAP Production Order Create: Initial Screen						
Menu ✓						
* Sales Order:	43 10					
Material:						
Production Plant:	HD00 Plant Heidelberg					
Planning Plant:						
Order Type:	PP01					
Order:						
Press Continue, the Production Order Create: Header screen appears.						





## Step 14: Goods receipt materials

**Task** Post the goods receipt for your production.

Zeit 10 Min.

**Short Description** The necessary materials for production must first be procured and posted. Since this is make-to-order production, it should be noted that a special stock must be created. The special stock reserves the materials for the sales order.

Name (Position) Susanne Castro (Goods Receipt Clerk)

To perform the goods receipt, use the *Post Goods Receipt Without Reference* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Goods Receipt Clerk* role.

Post Goods Receipt Without Reference

Post Goods Receipt without Reference



When you start the app, one empty item is already available. Press vou have 10 empty items available.

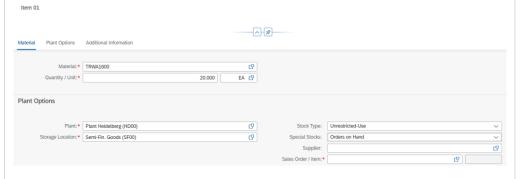
Then add the following values:

Material	Quantity	Unit	Plant	Storage
TRWA1###	20	EA	HD00	SF00
TRFR3###	10	EA	HD00	RM00
DGAM1###	10	EA	HD00	RM00
TRSK1###	10	EA	HD00	RM00
TRHB1###	10	EA	HD00	RM00
PEDL1###	10	EA	HD00	RM00
CHAN1###	10	EA	HD00	RM00
BRKT1###	10	EA	HD00	RM00
WDOC1###	10	EA	HD00	RM00
PCKG1###	10	EA	HD00	RM00

**Note** Since the selected strategy provides for make-to-order production, the stock must be shown as order stock. In make-to-order production, only material that is explicitly scheduled for the corresponding order is used.

Click on at the end of item 01 to open the details.

In the *Plant Options* section, select **Orders on Hand** for *Special Stocks*.



Then use the value help  $\square$  in the *Sales order / Item* field. A window will open.

Geben Sie Ihre Kundennummer 137### als Suchbegriff ein und drücken Sie Go. Der entsprechende Kundenauftrag wird angezeigt.



Select it, it will be applied automatically.



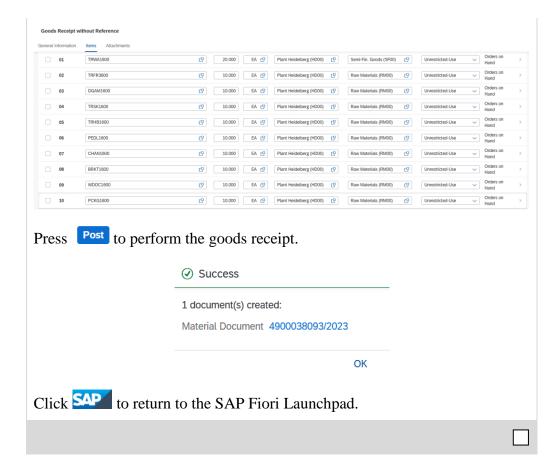
Press Apply, you will return to the position overview.

Repeat the process to show all other items as special stock with reference to the sales order.

Using the Special Stocks column, you can finally check whether all items are shown as Orders on Hand.

Orders on Hand

137###





## Step 15: Post goods movement

Task Post the goods movement for the production order.

Time 5 min

**Short Description** After the materials for the production order are available in the warehouse, they can be booked out for the production order.

Name (Position) Sanjay Datar (Warehouse Employee)

To transfer the raw materials to the production order, use the *Post Goods Movement* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Warehouse Employee* role.

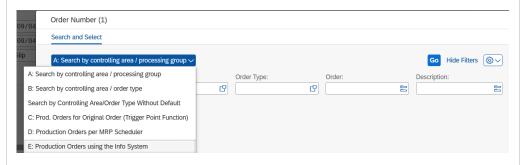
Post goods movement



Select A07 Goods issue as movement type and R08 Order.

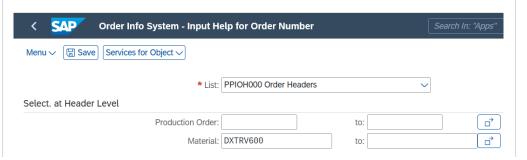
Then click in the third field and click on the value help icon  $\Box$ .

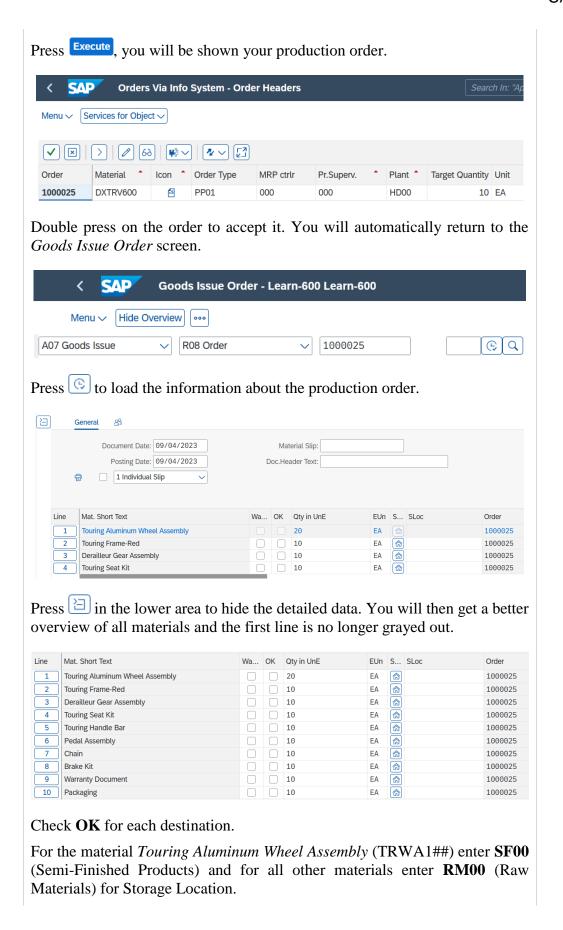
Select the entry *E: Production orders using the info system* in the upper dropdown.

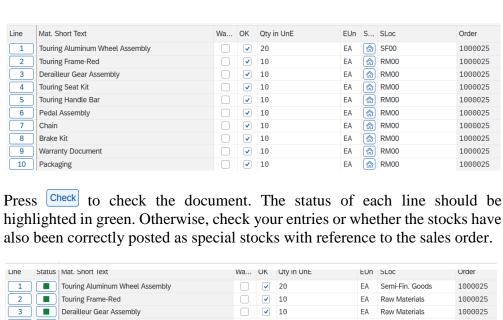


The Order Info System – Input Help for Order Number screen opens. Enter **DXTRV**### for material.

DXTRV###









Press Post to perform the goods issue.

Click to return to the SAP Fiori Launchpad.



## Step 16: Confirm production order

**Task** Report back the completed production.

Zeit 5 Min.

**Description** After the Deluxe Touring Bike is produced in the desired configuration, its completion is reported back.

Name (Position) Lars Iseler (Shop Floor Worker)

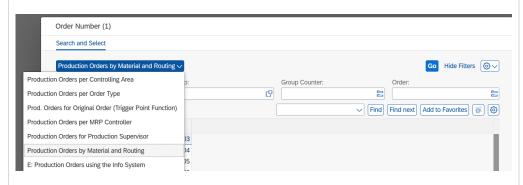
To confirm a production order, use the *Enter Production Order Confirmation* app in the *Shop Floor Worker* role on the *Variant Configuration* page in the *Production Planning and Execution* area.

Enter Production Order Confirmation



Click in the *Order* field and press the value help icon  $\square$ .

Select the *Production orders by material and routing* entry in the upper dropdown.



Enter **DXTRV**### for *material* and press **GO**. Your production order is displayed.



DXTRV###

Search and Select

Production Orders by Material and Routing 

Material: Group: Group Counter: Order:

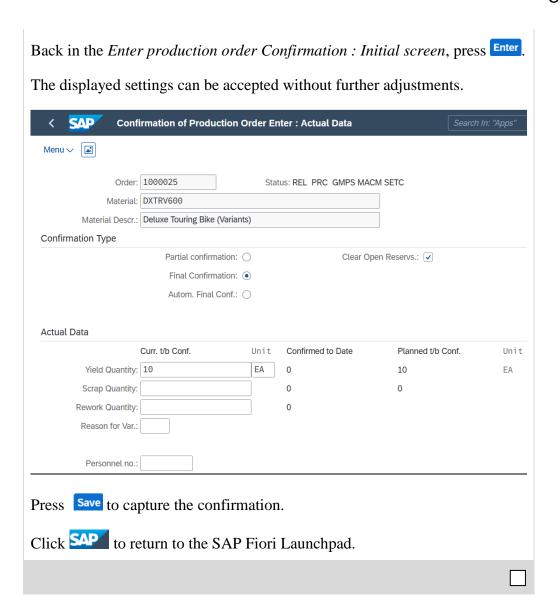
DXTRV600 CP Pind Find next Add to Favorites @ ②

Material Gro... GrC Or...

DXTRV600 50000004 1 1000025

Select the order and press ok.

Order Number (1)





# Step 17: Post Goods receipt for production order

Task Post the goods receipt from the production order.

Time 5 min

**Short Description** After the production order has been completely confirmed, you post the manufactured Deluxe Touring Bikes to the stock of goods. This stock is also tied to the sales order.

Name (Position) Susanne Castro (Goods Receipt Clerk)

To enter the goods receipt for the production order, use the *Post Goods Receipt* for *Production Order* app in the *Production Planning and Execution* area on the *Variant Configuration* page in the *Goods Receipt Clerk* role.

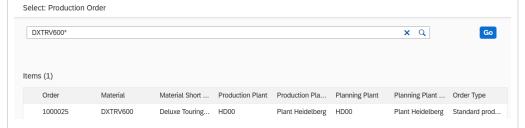
Post Goods Receipt for Production Order



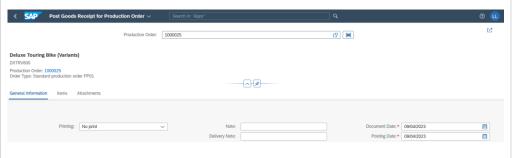
Press the value help icon  $\square$  in the *Production Order* field.

In the window that opens, enter **DXTRV**###\* and press <sup>Go</sup> to determine your order.

DXTRV###\*



Click on the line to accept the order. The information about the goods receipt is displayed.



Add the missing storage location in the *Items* section. Enter **Finished Goods** (**FG00**) for *storage location*.

FG00

