

Introduction to Business Central Assembly Orders

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The difference between Production orders and Assembly orders I.

Product

Item Card | Work Date: 2/17/2027

1150 · Front Hub

Home Request Approval Item Prices & Discounts Actions Related Fewer options

Copy Item Adjust Inventory Create Stockkeeping Unit Apply Template

Price Includes VAT Item Disc. Group FINISHED

Price/Profit Calculation Profit=Price-Cost Sales Unit of Measure PCS

Profit % 97.51 Sales Blocked

Replenishment

Replenishment System Prod. Order

Lead Time Calculation

Purchase

Vendor No.

Production

Manufacturing Policy Make-to-Stock

Routing No. 1150

Production BOM No. 1150

Routing | Work Date: 2/1/2022

1150 · Hub

Copy Routing... Versions Where-used More options

General

No. 1150 Search Description HUB

Description Hub

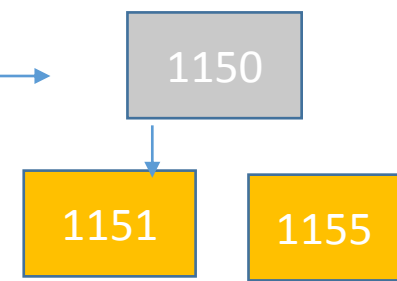
Type Parallel

Status Certified

Lines

Previous Operation No.	Operation No.	Next Operation No.	Type	No.	Description	Setup Time	Run Time	Wait Time
→ 5	10	30	Machine Center	420	CNC/Axle	120	7	0
5	20	40	Machine Center	420	CNC/Socket	80	5	0
10	30	50	Machine Center	430	Deburr Axle	20	3	0
20	40	50	Machine Center	410	Drilling Socket	13	5	0
	5	10 20	Machine Center	420	CNC/Axle	120	7	0
30 40	50	60	Work Center	100	Hub assembly	30	6	0
50	60		Machine Center	420	Inspection of Hub	10	5	0

Routings



BOM

Bill of Material (BOM)

Production BOMs | Work Date: 01.11.2027

1150 + New **Manage** Home Prod. BOM Reports More options

Exchange Production BOM Item Delete Expired Components

No. ↑	Description	Status	Unit of Measure Code
1150	Hub	Certified	PCS



Production BOM | Work Date: 01.11.2027

1150 · Hub

Copy BOM... Matrix per Version Comments Versions Where-used

General

No. 1150 Version Nos. Active Version Last Date Modified

Description Hub

Unit of Measure Code PCS

Status Certified

Lines | Manage Component

New Line Delete Line

Type	No.	Description	Quantity per	Unit of Measure Code	Scrap %
→ Item	1151	Axle Front Wheel	1	PCS	0
Item	1155	Socket Front	1	PCS	0

The difference between production orders and assembly orders II.

Item Card | Work Date: 2/17/2027

1992-W · ALBERTVILLE Whiteboard, green

Home Request Approval Item Prices & Discounts Actions Related Fewer options

Copy Item Adjust Inventory Create Stockkeeping Unit History

Item

No. 1992-W

Description ALBERTVILLE Whiteboard, green

Blocked

Type Inventory

Base Unit of Measure PCS

Last Date Modified 11/14/2023

Availability Purchases Sales

Bill of Materials Assembly Assembly BOM

Warehouse Production Where-Used

Service Other Calc. Assembly Std. Cost

Resources Mandatory if Exists Calc. Unit Price

Resources are parts of the Assembly BOM

Assembly BOM | Search + New Edit List Delete Item BOM

Type	No.	Description	Assembly BOM	Quantity per	Unit of Measure Code	Installed in Item No.
Item	1996-S	ATLANTA Whiteboard, base	No	1	PCS	
Item	70104	Paint, green	No	1	CAN	
→ Resource	KATHERINE	Katherine Hull	No	1	HOUR	

Assemble to Order (AtO)

- Typically, AtO is used for items **that you do not want to stock** because you expect to customize them to the customer's requirements or because you want to **minimize the accounting cost of the goods**. Support features include:
 - The ability to **customize** assembled items when using a Sales quote
 - An overview of the availability of the assembly item and its components
 - Ability to **reserve** assembly components immediately to ensure order fulfillment as soon as possible
 - Functionality to determine **profitability** of customized orders
 - Warehouse **integration** to make assembly and shipping easier
 - **Ability to Assemble to Order at point of manufacture sales quotes or bulk sales order**
 - Ability to combine quantity of goods with quantity of assemblies per order



See next slide

Bulk Sales order

- A bulk sales order refers to the practice of purchasing a large quantity of products in a single transaction. This approach is commonly used in wholesale and retail industries to benefit both buyers and sellers.
- Bulk sales order key points:
 - Cost efficiency -> discounts
 - Increased Sales Volume -> moving large inventory quantity at once increase Cash – Flow
 - Logistics -> Fewer stock movements

Assembly to Stock (AtS)

- Typically, you use assemble to order for items you want to assemble **ahead of time for sale**, in preparation for campaigns, and keep them in the warehouse until they are ordered.
- These items are usually common items like packing kits that you don't offer to customize to customer requirements
- During AtS, the item is assembled with no immediate sales demand and stored in the warehouse as a stock item for later sale or consumption sub-assemblies.

List of possible Assembly items

No. ↑	Description	Type	Inventory	Costing Method	Stockk... Unit Exists	Substitutes Exist	Assem... BOM ▼	Production BOM No.	Routing No.	Base Unit Measure
<u>1924-W</u>	⋮ CHAMONIX Base Storage Unit	Inventory	26	Standard	No	No	Yes			PCS
1928-W	ST.MORITZ Storage Unit/Draw...	Inventory	65	Standard	No	No	Yes			PCS
1952-W	OSLO Storage Unit/Shelf	Inventory	15	Standard	No	No	Yes			PCS
1964-W	INNSBRUCK Storage Unit/G.Do...	Inventory	53	Standard	No	No	Yes			PCS
1968-W	GRENOBLE Whiteboard, red	Inventory	-27	Standard	No	Yes	Yes			PCS
1972-W	SAPPORO Whiteboard, black	Inventory	11	Standard	No	Yes	Yes			PCS
1976-W	INNSBRUCK Storage Unit/W.D...	Inventory	-103,4752	Standard	No	No	Yes			PCS
1984-W	SARAJEVO Whiteboard, blue	Inventory	-6	Standard	No	No	Yes			PCS
1988-W	CALGARY Whiteboard, yellow	Inventory	20	Standard	No	No	Yes			PCS
1992-W	ALBERTVILLE Whiteboard, green	Inventory	6	Standard	No	No	Yes			PCS
766BC-A	CONTOSO Conference System	Inventory	0	Standard	No	No	Yes			PCS
766BC-B	CONTOSO Office System	Inventory	5	Standard	No	No	Yes			PCS
766BC-C	CONTOSO Storage System	Inventory	2	Standard	No	No	Yes			PCS
8904-W	Computer - Basic Package	Inventory	0	FIFO	No	No	Yes			PCS
8908-W	Computer - Highline Package	Inventory	-6	FIFO	No	No	Yes			PCS
8912-W	Computer - Trendy Package	Inventory	0	FIFO	No	No	Yes			PCS
8916-W	Computer - TURBO Package	Inventory	-3	FIFO	No	No	Yes			PCS
8920-W	⋮ Server - Teamwear Package	Inventory	0	FIFO	No	No	Yes			PCS
8924-W	Server - Enterprise Package	Inventory	-3	FIFO	No	No	Yes			PCS
LS-100	Loudspeaker 100W OakwoodD...	Inventory	32	FIFO	No	No	Yes	LS-100		PCS

Assembly Bill of Material for chosen item 1992-W

BOM=Bill of Material

Item Card | Work Date: 2023/02/01

1992-W · ALBERTVILLE Whiteboard, green

Process Item Prices & Discounts Request Approval Actions **Related** Fewer options

History Item Availability Purchases Sales **Bill of Materials** Warehouse Service Resources

No. 1992-W

Description ALBERTVILLE Whiteboard, green

Blocked

Type Inventory

Base Unit of Measure PCS

Last Date Modified 2021/01/05

Structure

Cost Shares

Assembly > **Assembly BOM**

Production > Where-Used

Calc. Assembly Std. Cost

Calc. Unit Price



1992-W · ALBERTVILLE Whiteboard, green | Work Date: 2023/02/01

Assembly BOM | Search + New Edit List Delete Item BOM

Type	No.	Description	Assembly BOM	Quantity per	Unit of Measure Code	Installed in Item No.	Position	Main Item
→ Item	1996-S	ATLANTA Whiteboard, base	No	1	PCS			<input type="checkbox"/>
Item	70104	Paint, green	No	1	CAN			<input type="checkbox"/>

Components

Setup of Assembly item card

1992-W · ALBERTVILLE Whiteboard, green

Process Item Prices & Discounts Request Approval Actions Related Fewer options

Profit % 27,31 Sales Blocked

Replenishment Show less

Replenishment System **Assembly**

Lead Time Calculation

Purchase

Vendor No.

Vendor Item No.

Purch. Unit of Measure PCS

Purchasing Blocked

Production

Manufacturing Policy **Make-to-Stock**

Routing No.

Production BOM No.

Rounding Precision 1

Flushing Method **Manual**

Overhead Rate 0,00

Scrap % 0

Lot Size 0

Assembly

Assembly Policy **Assemble-to-Order**

Assembly BOM Yes

Items that are set up for **Assemble-to-Order** **aren't expected to be in inventory** and will be assembled when it's included on a Sales order. An item is set up for **Assemble-to-Order** when the **Assembly Policy** field on the item card contains **Assemble-to-Order** option.

When you enter the item on a sales order line, an **Assembly order** is automatically created and linked to the sales order.

Use the Assemble-to-Order process (option) for items that you don't want to stock.

Assemble-to-Stock explanation (see slide 7)

- Assemble-to-Stock uses the assemble-to-stock process for items that you assemble and store for future sales.
- Assemble-to-Stock items are standard items, such as **packaged kits**, that you don't customize. You can also consume these items as subassembly components.
- Use the Assemble-to-Stock process for items that you assemble and store for future sales.

Standard Cost is a Costing method set for our model item

- Many manufacturing companies select a valuation base of **standard cost**. This also applies to companies that perform light manufacturing, such as **Assembly** and **Kitting**. A standard cost system determines inventory unit cost based on some reasonable historical or **expected** cost. Studies of past and estimated future cost data can then provide the basis for standard costs.
 - These costs are **frozen** until a decision is made to change them. The actual cost to produce a product may differ from the estimated standard costs. For management control, the actual cost is compared to the standard cost for a specific item and differences
- Standard Cost=Pevná cena**

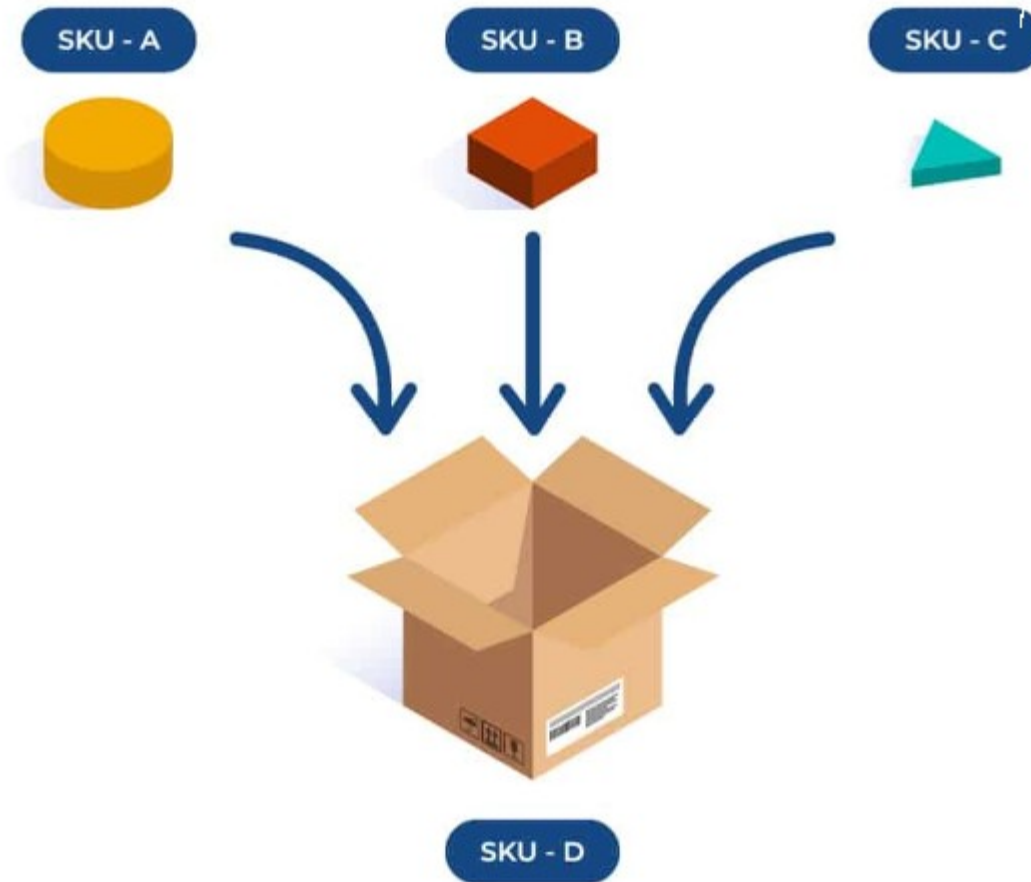
Explanation fo Kitting : see next 2 slides

Explanation of the term Kitting

- **Kitting** is a process commonly used in manufacturing and logistics where individual items are grouped together to create a single, ready-to-ship package.
- This method is particularly useful for assembling products that require multiple components.
- Reasons for use of kitting :
 - Efficiency: By pre-assembling kits, companies can streamline their production and shipping processes, reducing the time and labor required to handle individual parts
 - Cost Savings: It can lower inventory costs and improve space utilization by consolidating multiple items into a single package

-

What is Kitting?



SKU=Stock Keeping Unit

Sales Order Line -> Assemble-to-Order version

Lines | Manage **Line** Order

⚡ Functions ▾ 📅 Item Availability by ▾ **Related Information** ▾

Type	No.	Item Reference No.	Cat...	Purchasing Code	Drop Ship...	Description	Location Code	Quantity	Qty. to Assemble to Order	Reserved Quantity	Unit of Measure Code	Unit Price Excl. VAT
→ Item	1992-W		<input type="checkbox"/>		<input type="checkbox"/>	ALBERTVILLE Whiteboard, green	BLUE	1	1	1	PCS	974.80

- Order Promising
- Attachments
- Assemble to Order >**
- Document Line Tracking
- Deferral Schedule
- Related Information ▾**

Edit - Assemble-to-Order Lines - Item 1992-W ALBERTVILLE Whiteboard, green

Manage **Home** Line | More options

Show Document Reserve...

Avail. Warni...	Type	No.	Description	Unit of Measure Code	Quantity per	Quantity
→	Item	1996-S	ATLANTA Whiteboard, base	PCS	1	1
-	Item	70104	Paint, green	CAN	1	1

Created Assembly Order type Assemble-to-Order (AtO)

Edit - Assembly Order - A00001 · ALBERTVILLE Whiteboard, green

Manage Home Prepare Print Warehouse Order Page | More options

Preview Posting | Release | Show Availability

Description	ALBERTVILLE Whiteboard, green	Ending Date	2/14/2027
Quantity	1	Remaining Quantity	1
Quantity to Assemble	1	Assembled Quantity	0
Unit of Measure Code	PCS	Assemble to Order	Yes
Posting Date	2/17/2027	Status	Open

Lines | Manage Line Functions

New Line Delete Line

Avail. Warni...	Type	No.	Description	Variant Code	Location Code	Unit of Measure Code	Quantity per	Quantity	Quantity to Consume	Consumed Quantity	Remaining Quantity	Unit Cost	Cost Amount	Reserved Quantity	Qty. per I
→	Item	1996-S	ATLANTA Whiteboard, base		BLUE	PCS	1	1	1	0	1	707.20	707.20	0	
-	Item	70104	Paint, green		BLUE	CAN	1	1	1	0	1	1.40002	1.40	0	

Link from AtO lines to document

Edit - Assemble-to-Order Lines - Item 1992-W ALBERTVILLE Whiteboard, green

Manage Process Line | Actions ▾ Related ▾ Fewer options

Show Document Reserve...

Avail. Warni...	Type	No.	Description	Unit of Measure Code	Quantity per	Quantity
→	Item	1996-S	ATLANTA Whiteboard, base	PCS	1	5
	Item	70104	Paint, green	CAN	1	5
	Resource	LINDA	Linda Martin	HOUR	0.5	2.5

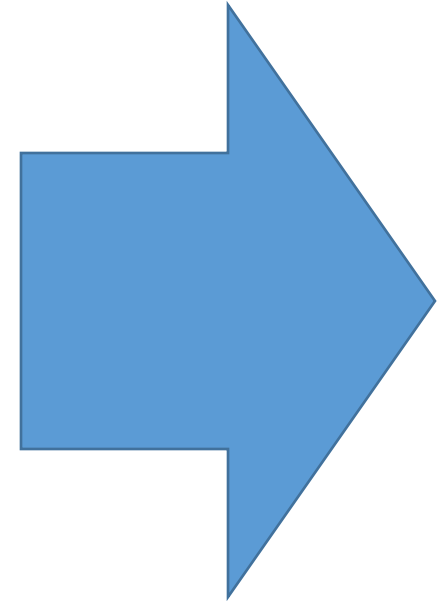
OR

1336 · Selangorian Ltd.

Process Posting Release Prepare Print/Send Request Approval Order | Actions ▾ Related ▾ Automate ▾ Fewer options

Dimensions Statistics Comments Attachments Approvals Invoices Order Assembly Orders

Warehouse Other



Show created document (Assembly Order) – before posting

Edit - Assembly Order - A00005 · ALBERTVILLE Whiteboard, green

Manage Process Release Warehouse Posting Print Navigate Order Page | Actions Related Fewer options

General

No.	A00005	Due Date	2023/02/01
Item No.	1992-W	Starting Date	2023/01/29
Description	ALBERTVILLE Whiteboard, green	Ending Date	2023/01/29
Quantity	1	Remaining Quantity	1
Quantity to Assemble	1	Assembled Quantity	0
Unit of Measure Code	PCS	Assemble to Order	Yes
Posting Date	2023/02/01	Status	Open

Lines

Avail. Warni...	Type	No.	Description	Variant Code	Location Code	Unit of Measure Code	Quantity per	Quantity	Quantity to Consume	Consumed Quantity	Remaining Quantity	Unit Cost	Cost Amount	Reserved Quantity
→	Item	1996-S	ATLANTA Whiteboard, base		BLUE	PCS	1	1	1	0	1	707,20	707,20	
	Item	70104	Paint, green		BLUE	CAN	1	1	1	0	1	1,40	1,40	

This model does not consider the source, but it can be added in the teaching

Status change : Open -> Released

Sales Order | Work Date: 2023/02/01 ✎ + 🗑 ✓ Saved 🔗

1155 · The Cannon Group PLC

✕ This customer has an overdue balance. [Show details](#)

Process **Release** Posting Prepare Order Request Approval Print/Send Navigate Actions Related Fewer options

Phone No.	<input type="text"/>	Responsibility Center	BIRMINGHAM <input type="text"/>
Mobile Phone No.	<input type="text"/>	Assigned User ID	<input type="text"/>
Email	<input type="text"/>	Status	Released <input type="text"/>
Contact	Mr. Andy Teal ...	Work Description	<input type="text"/>
No. of Archived Versions	<input type="text" value="0"/>		
Document Date	2023/02/01 <input type="text"/>		
Posting Date	2023/02/01 <input type="text"/>		

You need to change the status manually !

SO posting is related to Automatic posting of linked Assembly order

Type	No.	Item Reference No.	Cat...	Purchasing Code	Drop Ship...	Description	Location Code	Quantity	Qty. to Assemble to Order	Reserved Quantity	Unit of Measure Code ↑	Unit Price Excl. VAT
→ Item	1992-W		<input type="checkbox"/>		<input type="checkbox"/>	ALBERTVILLE Whiteboard, green	BLUE	1	1	1	PCS	974.80

F9

Ship

Invoice

Ship and Invoice

? The order is posted as number 103116 and moved to the Posted Sales Invoices window.

Do you want to open the posted invoice?

Posted Sales Invoice

Posted Sales Invoice | Work Date: 2/17/2027 ✓ Saved

103116 · The Cannon Group PLC

[Home](#) [Print/Send](#) [Invoice](#) [Incoming Document](#)

[Update Document](#) [Correct](#) | [Find entries...](#) [Track Package](#) [Change Payment Service](#)

General Show more

No.	103116	Due Date	3/17/2027
Customer	The Cannon Group PLC	Quote No.	
Contact	Mr. Andy Teal	Order No.	1076
Posting Date	2/17/2027	Cancelled	No
VAT Date	2/17/2027	Closed	<input type="checkbox"/>

Lines | [Manage](#) | [Line](#) ↗ ↻

[New Line](#) [Delete Line](#) ↻

Type	No.	Location Code	Item Reference No.	Description	Quantity	Unit of Measure Code	Unit Price Excl. VAT	Line Discount %	Line Amount Excl. VAT	Deferral Code	Department Code	Project Code	Un
→ Item	1992-W	BLUE		ALBERTVILLE Whiteboard, green	1	PCS	974.80		974.80		SALES		

It automatically posts both the sales order and the linked Assembly order

Posted Assembly order

Posted Assembly Order | Work Date: 2/17/2027

A00001

[Home](#) Order

Print Find entries... Undo Assembly Item Tracking Lines

General

No.	A00001	Posting Date	2/17/2027
Order No.	A00001	Due Date	2/17/2027
Item No.	1992-W	Starting Date	2/14/2027
Description	ALBERTVILLE Whiteboard, green	Ending Date	2/14/2027
Quantity	1	Assemble to Order	Yes
Unit of Measure Code	PCS	Reversed	<input type="checkbox"/>

Posted Assembly Order Subform | [Manage](#) Line

New Line Delete Line

Type	No.	Description	Variant Code	Location Code	Unit of Measure Code	Quantity	Quantity per	Unit Cost	Cost Amount	Qty. per U Me
→ Item	1996-S	ATLANTA Whiteboard, base		BLUE	PCS	1	1	707.20	707.20	
Item	70104	Paint, green		BLUE	CAN	1	1	1.40002	1.40	

Item Ledger Entries after posting Sales order

Item 1992-W ALBERTVILLE Whiteboard, green | Work Date: 2/17/2027

Item Ledger Entries | Search Find entries... Entry Order Tracking Application Worksheet

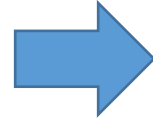
Posting Date	Entry Type	Document Type	Document No.	Item No. ▼	Description	Department Code	Lot No.	Serial No.	Expiration Date	Project Code	Location Code	Quantity	Invoiced Quantity
2/17/2027	∴ Sale	Sales Shipment	102131	1992-W		SALES	-	-			BLUE	-1	-1
2/17/2027	Assembly ...	Posted Assembly	A00001	1992-W		SALES	-	-			BLUE	1	1
1/15/2025	Sale	Sales Shipment	102025	1992-W		SALES	-	-			RED	-1	-1
12/31/2024	Positive Adj...		START	1992-W			-	-			GREEN	5	5
12/31/2024	Positive Adj...		START	1992-W			-	-			BLUE	6	6

Assembly orders type Assemble-to-Stock

Tell me what you want to do

Go to Pages and Tasks

- > Assembly Setup
- > Assembly Quotes
- > **Assembly Orders**









Assembly Orders | Work Date: 2023/02/01

Search **+ New** Manage Posting Line | More options

Document Type ↑	No. ↑	Description	Due Date	Starting Date	Ending Date	Ass... to Order	Item No.
Order	A00001	Bicycle	2023/01/26	2023/01/25	2023/01/25	<input type="checkbox"/>	<u>1000</u>
Order	A00003	ALBERTVILLE Whiteboard, green	2023/02/01	2023/01/29	2023/01/29	<input checked="" type="checkbox"/>	1992-W
Order	A00004	CONTOSO Conference System	2023/02/01	2023/01/29	2023/01/29	<input checked="" type="checkbox"/>	766BC-A
Order	A00005	ALBERTVILLE Whiteboard, green	2023/02/01	2023/01/29	2023/01/29	<input checked="" type="checkbox"/>	1992-W

No document is yet listed in the ESF database

Assembly setup

Work Date: 2023/02/01    ✓ Saved   

Assembly Setup

General

Stockout Warning

Copy Component Di...

Default Location for O...

Copy Comments whe...

Numbering

Assembly Order Nos.

Blanket Assembly Ord...

Assembly Quote Nos.

Posted Assembly Ord...

Warehouse

Create Movements Automatically

Assembly Order

Assembly Order | Work Date: 2/17/2027

A00002 · ALBERTVILLE Whiteboard, green

Home Prepare Print Warehouse Order | More options

Post... Release Show Availability

General

No.	<input type="text" value="A00002"/>	...	Due Date	<input type="text" value="2/17/2027"/>	
Item No.	<input type="text" value="1992-W"/>	▼	Starting Date	<input type="text" value="2/16/2027"/>	
Description	<input type="text" value="ALBERTVILLE Whiteboard, green"/>		Ending Date	<input type="text" value="2/16/2027"/>	
Quantity	<input type="text" value="2"/>		Remaining Quantity	<input type="text" value="2"/>	
Quantity to Assemble	<input type="text" value="2"/>		Assembled Quantity	<input type="text" value="0"/>	
Unit of Measure Code	<input type="text" value="PCS"/>		Assemble to Order	<input type="text" value="No"/>	
Posting Date	<input type="text" value="2/17/2027"/>		Status	<input type="text" value="Open"/>	

Lines | Manage Line Functions

New Line Delete Line

Avail. Warni...	Type	No.	Description	Variant Code	Location Code	Unit of Measure Code	Quantity per	Quantity	Quantity to Consume	Consumed Quantity
Yes	Item	1996-S	ATLANTA Whiteboard, base			PCS	1	2	2	0
Yes	Item	70104	Paint, green			CAN	1	2	2	0
→							0	0	0	0

Explanation Assemble-to- stock and Assemble-to-order

- If the Assembly Method field on the Assemble Item tab contains **Assemble-to-Stock**, then the default Sales Order process assumes that the item is already assembled and can be removed from stock if available. **Therefore, no Assembly order is automatically created and linked to the Sales Order line**
- However, if part (or all) of the quantity is not available, you have the option to create an Assembly order for the remaining quantity by filling in the QTY to Assemble-to- Order field on the sales order line.
- In this way, you can assemble the item to order, even if it is set to be Assemble-to-Stock by default

Assembly order-posting



Do you want to post the Order?

Yes

No

Posted Assembly Orders | Work Date: 2023/02/01

Search Manage Print Find entries... Statistics | More options

No.	Order No.	Description	Posting Date ↓	Due Date	Starting Date	Ending Date	Item No.	Quantity	Unit Cost
A00004	⋮ A00006	ALBERTVILLE Whiteboard, green	2023/02/01	2023/02/01	2023/01/31	2023/01/31	.1992-W	1	708,60

Posted assembly order

Posted Assembly Order | Work Date: 2023/02/01

A00004

Process Order Print/Send More options

General

No.	A00004	Posting Date	2023/02/01
Order No.	A00006	Due Date	2023/02/01
Item No.	1992-W	Starting Date	2023/01/31
Description	ALBERTVILLE Whiteboard, green	Ending Date	2023/01/31
Quantity	1	Assemble to Order	No
Unit of Measure Code	PCS	Reversed	<input type="checkbox"/>

Posted Assembly Order Subform | Manage More options

Type	No.	Description	Variant Code	Location Code	Unit of Measure Code	Quantity	Quantity per	Unit Cost	Cost Amount	Qty. per Unit of Measure
→ Item	1996-S	ATLANTA Whiteboard, base		BLUE	PCS	1	1	707,20	707,20	1
Item	70104	Paint, green		BLUE	CAN	1	1	1,40	1,40	1

Item ledger entries

Item Ledger Entries | Work Date: 2023/02/01

Search Entry | Actions Related Fewer options

Posting Date	Entry Type	Document Type	Document No.	Item No.	Description	Departme... Code	Project Code	Location Code	Serial No.	Lot No.	Expiration Date	Quantity	Invoiced Quantity
<u>2023/02/01</u>	Assembly Out...	Posted Assembly	A00004	1992-W					-	-		1	1
2023/02/01	Assembly Con...	Posted Assembly	A00004	70104				BLUE	-	-		-1	-1
2023/02/01	Assembly Con...	Posted Assembly	A00004	1996-S				BLUE	-	-		-1	-1

Roll-UP Cost

- Roll-up Cost v Business Central je celková cena hotového výrobku, která zahrnuje náklady na všechny jeho složky, včetně surovin, práce a režie.
- NA následujícím snímku jsou uvedeny kroky pro výpočet Roll-up Cost v aplikaci Business Central.

Roll-up-Cost

- The Roll-up Cost in Business Central is the total cost of a finished product that includes the cost of all its components, including raw materials, labor, and overhead (režie). Here are the steps to calculate the Roll-up Cost in Business Central:
 - 1. Identify the finished product:** Determine which finished product you want to calculate the roll-up price for.
 - 2. Create a Bill of Materials (BOM):** Create a list of all the components required to produce the finished product. This includes raw materials, labor, and overhead costs (režie).
 - 3. Assign costs to each component:** Assign the cost of each component to the BOM. This includes the cost of raw materials, labor, and overhead costs.
 - 4. Calculate the total cost of the BOM:** Add up the cost of all the components listed in the BOM.
 - 5. Add any additional costs:** If there are any additional costs associated with producing the finished product, such as shipping or packaging costs, add them to the total cost of the BOM.
 - 6. Determine the mark-up** (*přirážka, marže*): Decide on the desired profit margin for the finished product and add it to the Total cost of the BOM.
 - 7. Calculate the Roll-up Price:** Add the total cost of the BOM to the desired profit margin to determine the Roll-up Price for the finished product.
- Business Central has a built-in feature to calculate the **Roll-up Price** of items based on the cost of their BOM. This feature is called the "Calculate Roll-up Cost" function and it can be accessed through the "Item Card" page.

Cost shares on item card

Item Card | Work Date: 01.11.2027

1924-W · CHAMONIX Base Storage Unit

Home Request Approval Item Prices & Discounts Actions ▾ Related ▾ Fewer options

Attachments Approvals Phys. Inventory Ledger Entries Marketing Text Attributes Items by Location

Statistics Comments Dimensions Item Availability by ▾ Structure **Cost Shares**

View on the cost of underlying items in the BOM roll-up to the parent item.
The information is organized according to the BOM structure to reflect the levels at which individual costs increase.

Each item level can be collapsed or extended to obtain an overview or detailed view.

Type	No.	Description	Warn...	Qty. per Parent	Qty. per Top Item	Qty. per BOM Line	Unit of Measure Code	BOM Unit of Measure Code	Replenish... System	Rolled-up Material Cost	Rolled-up Capacity Cost	Rolled-up Subcontracted Cost	Rolled-up Mfg. Ovhd Cost	Rolled-up Capacity Ovhd. Cost
<u>Item</u>	.1924-W	CHAMONIX Base Storage Unit		1	1		PCS		Assembly	86,2916				
Item	70000	Side Panel	—	2	2		PCS		Purchase	35,99152				
Item	70001	Base	—	1	1		PCS		Purchase	20,60007				
Item	70002	Top Panel	—	1	1		PCS		Purchase	14,60				
Item	70003	Rear Panel	—	1	1		PCS		Purchase	15,10001				

SEE : In the class, try Cost share of item 1000 (to see Rolled-Up Costs related to Production)

Costs on item card (overhead and item cost)

Costs & Posting	
Cost Details	
Costing Method	FIFO
Standard Cost	97,50 ...
Unit Cost	97,50
Indirect Cost %	0

Replenishment		Production	
Replenishment System	Purchase	Manufacturing Policy	Make-to-Stock
Lead Time Calculation		Routing No.	
Purchase		Production BOM No.	
Vendor No.	20000	Rounding Precision	1
Vendor Item No.	20-121	Flushing Method	Manual
Purch. Unit of Measure	PCS	Overhead Rate	10,00
Purchasing Blocked	<input checked="" type="checkbox"/>	Scrap %	0



Indirect costs in absolute value

Costs on related resources (capacity cost)

1972-W · SAPPORO Whiteboard, black | Work Date: 01.11.2027

Assembly BOM | Search + New Edit List Delete Item BOM

Type	No.	Description	Assembly BOM	Quantity per	Unit of Measure Code	Installed in Item No.	Position
Item	1996-S	ATLANTA Whiteboard, base	No	1	PCS		
Item	70100	Paint, black	No	1	CAN		
→ Resource	KATHERINE	Katherine Hull	No	1	HOUR		

KATHERINE · Katherine Hull

Home Resource Report More options

Create Time Sheets...

No. KATHERINE

Name Katherine Hull

Type Person

Base Unit of Measure HOUR

Search Name KATHERINE HULL

Resource Group No.

Invoicing

Direct Unit Cost	5,70
Indirect Cost %	10,00
Unit Cost	6,30

After Rounding up

Adding capacity to Assembly BOM component

1972-W · SAPPORO Whiteboard, black | Work Date: 01.11.2027

Assembly BOM | Search + New Edit List Delete Item BOM

Type	No.	Description	Assembly BOM	Quantity per	Unit of Measure Code
Item	1996-S	ATLANTA Whiteboard, base	Yes	1	PCS
Item	70100	Paint, black	No	1	CAN
Resource	KATHERINE	Katherine Hull	No	1	HOUR

1996-S · ATLANTA Whiteboard, base | Work Date: 01.11.2027

Assembly BOM | Search + New Edit List Delete Item BOM

Type	No.	Description	Assembly BOM	Quantity per	Unit of Measure Code
Resource	KATHERINE	Katherine Hull	No	2	HOUR

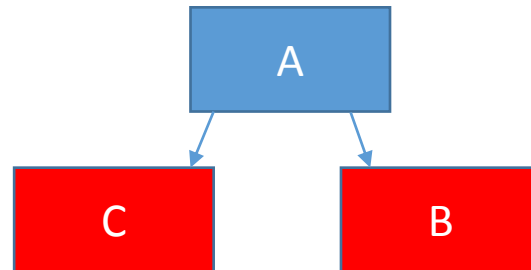
Cost Shares

Type	No.	Description	Warn...	Qty. per Parent	Qty. per Top Item	Qty. per BOM Line	Unit of Measure Code	BOM Unit of Measure Code	Replenish... System	Rolled-up Material Cost	Rolled-up Capacity Cost	Rolled-up Subcontracted Cost	Rolled-up Mfg. Ovhd Cost	Rolled-up Capacity Ovhd. Cost
Item	.1972:W	SAPPORO Whiteboard, black		1	1		PCS		Assembly	1,40	17,10			1,80
Item	1996-S	ATLANTA Whiteboard, base	-	1	1		PCS		Assembly		11,40			1,20
Resource	KATHERI...	Katherine Hull	-	2	2		HOUR		Transfer		11,40			1,20
Item	70100	Paint, black	-	1	1		CAN		Purchase	1,40				
Resource	KATHERI...	Katherine Hull	-	1	1		HOUR		Transfer		5,70			0,60

Standard cost – single level

• Item	Material		Capacity		Overhead	
A	24	+	5	+	6	= 35
B	10	+	3	+	3	= 16
C	5	+	2	+	1	= 8

$= 16 + 8 = 24$

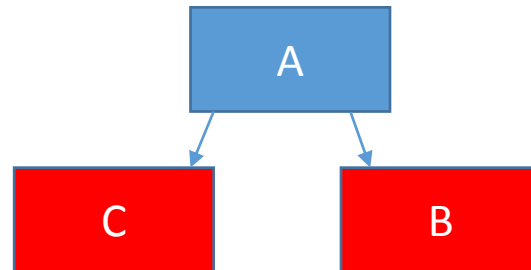


Standard cost – multiple level

• Item

	Material		Capacity		Overhead		
A	15	+	10	+	10	=	35
	↑		5		6		
B	10	+	3	+	3	=	16
C	5	+	2	+	1	=	8

=16+8 = 24



**Thank you for your
attention**