

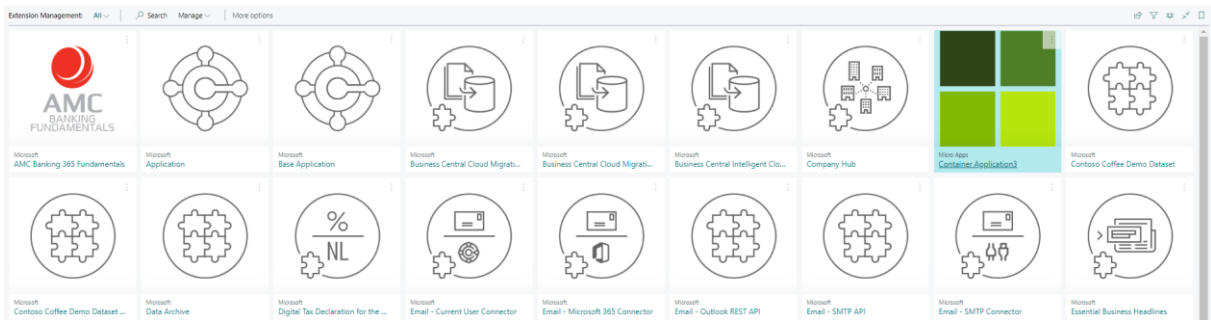
MICRO APPS

Container Shipment

This document will describe all the necessary information for the use of the Container extension, created by Micro-Apps. This extension creates the possibility to register a container in Business Central and add Purchase Lines to the container.

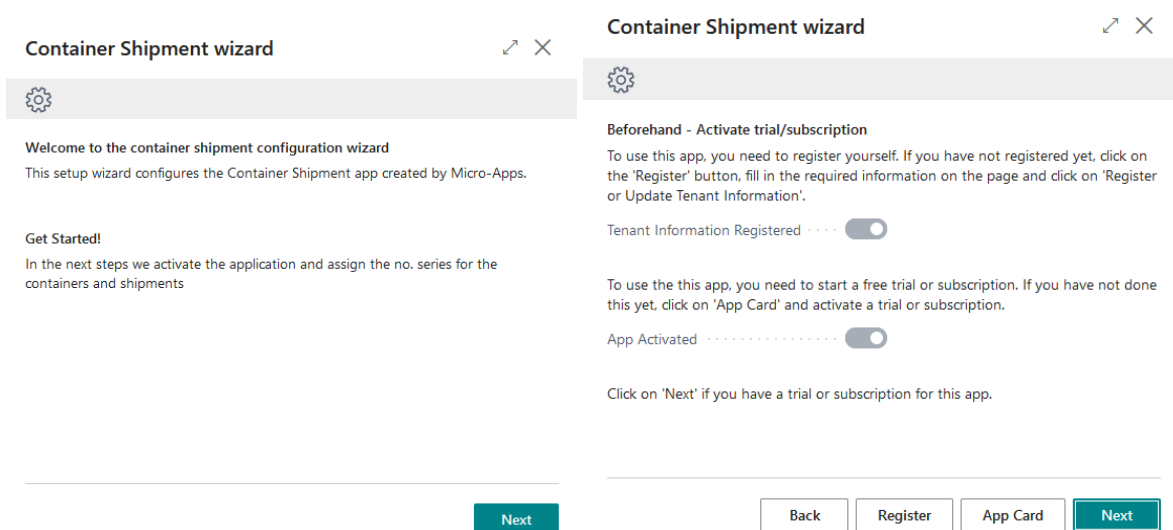
Installation:

The installation of the Container Shipment app is available via the Microsoft Marketplace for Business Central extensions/apps. From here you can automatically install the extension and make it available within every company within your Business Central environment.




Container Shipment app Setup:

After the installation has been completed, the page **Container Shipment Wizard** is available in Business Central. With this configuration wizard we can set up the container shipment application step by step. This wizard contains all the necessary steps to completely set up the extension. The first step is to register yourself and to activate the trial or subscription. With the trial, you can use the app two weeks free of charge. After the trial period, you need to activate the subscription. Make sure both fields are checked (like the example in the right picture.)





Select the No. series for the containers and the container shipments. is necessary to create an unique number for them. If there are no number series that fit your needs. Please create a new no. series.

Container Shipment wizard




Create and select the no. series for the containers and the shipments

No. Series Container CONTAINER 

No. Series Shipment SHIPMENT 

In the next screen you are able to set the shipping times of the shipments. The first field is the Default Shipping Time. The Container Shipment app will use this field to calculate the (Expected) Arrival Date of the goods at the point of entry. The second field describes the default time to transport the goods from the entry point to the warehouse. This date will also be used to calculate the Arrival Date.

Container Shipment wizard



In the fields below you can set how long a shipment takes on average. For example use '10D' for 10 days, '3W' for 3 weeks or '2M' for 2 month.

Select here the standard or average shipping time that a container is on its way.

Default Shipping Time 2W

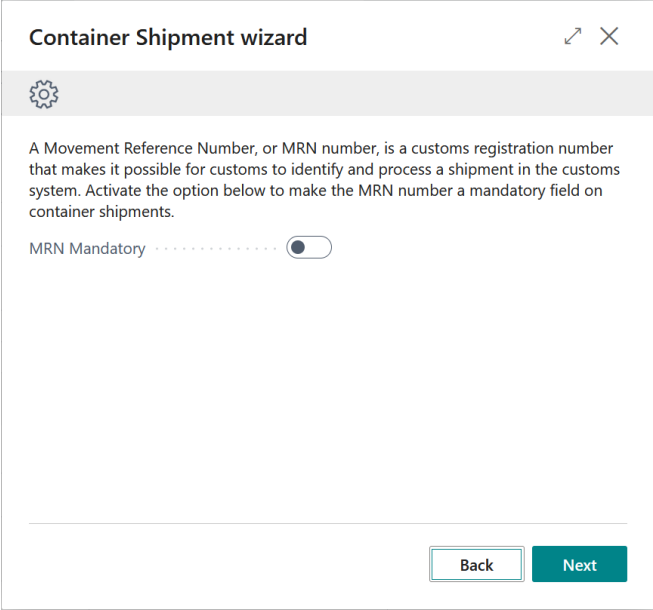
Select here, if applicable, the default or average shipping time that a container is on its way from the receiving location to the storage location.

Default Receiving Port Shipping ... · 5D

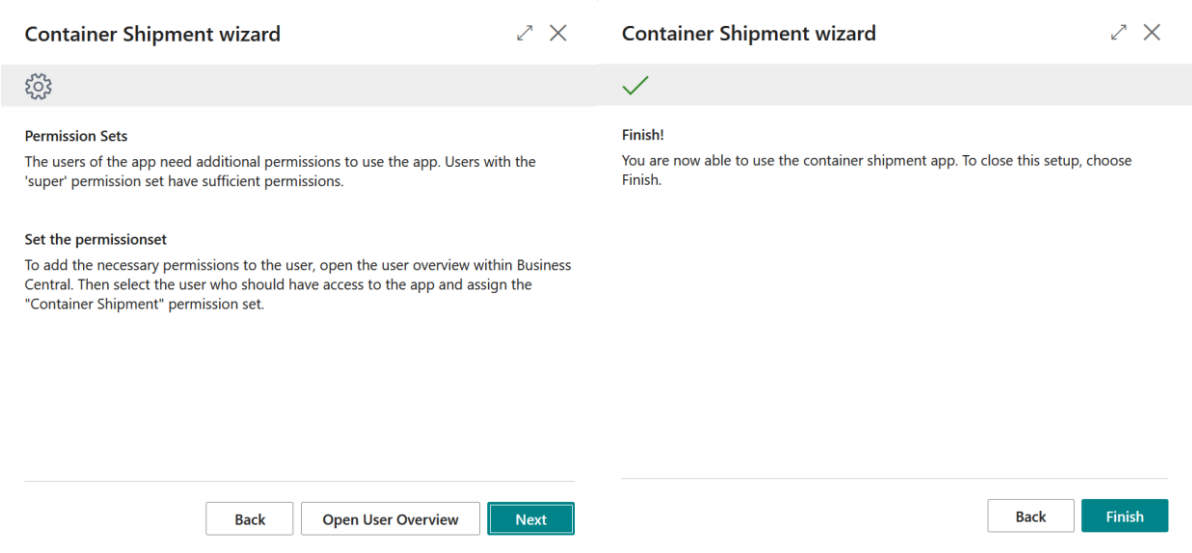
To set the shipping time use the syntax where the star symbol is the amount (*):

- (2M is used to describe 2 month)
- *M** = Month
- *W** = Week
- *D** = Day

A Movement Reference Number, or MRN number, is a customs registration number that makes it possible for customs to identify and process a shipment in the customs system. If you want to make this field mandatory in Business Central, then check the MRN mandatory field.



The last step contains assigning the 'Container Shipment' permission set. For every user that uses the container app and doesn't have super rights, you need to set the container shipment permission. Open the user overview page with the button, select the user and assign the "Container Shipment" permission in the User Permission Sets tab. After this step you are done with the configuration.

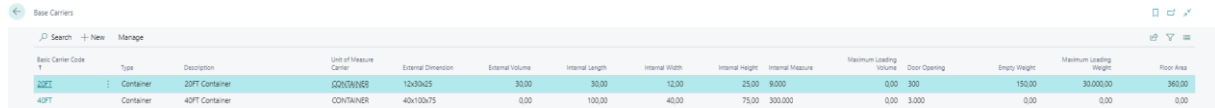


Base Carriers Setup:

Because it is possible to ship different sizes containers, you need to create at least one container. It is optional to add the sizes and measurement of the container.

The Container Shipment app is using this information to calculate the remaining values.

You can add these carriers in the page **Base Carriers** by clicking on the button +New on this page.



Basic Carrier Code	Type	Description	Unit of Measure Carrier	External Dimension	External Volume	Internal Length	Internal Width	Internal Height	Internal Measure	Maximum Loading Volume	Door Opening	Empty Weight	Maximum Loading Weight	Floor Area
20FT	Container	20FT Container	CONTAINER	12x3x4.5	30.00	30.00	12.00	25.00	9.000	0.00	3.00	150.00	30,000.00	360.00
40FT	Container	40FT Container	CONTAINER	40x10x7.5	0.00	100.00	40.00	75.00	300.000	0.00	3.000	0.00	0.00	0.00

Calculation of Dates: (Estimated Departure Date (ETD)) + Shipping Time = Estimated Arrival Date (ETA))

Arrival Date: Estimated Arrival Date (ETA) + Receiving Point Shipping time

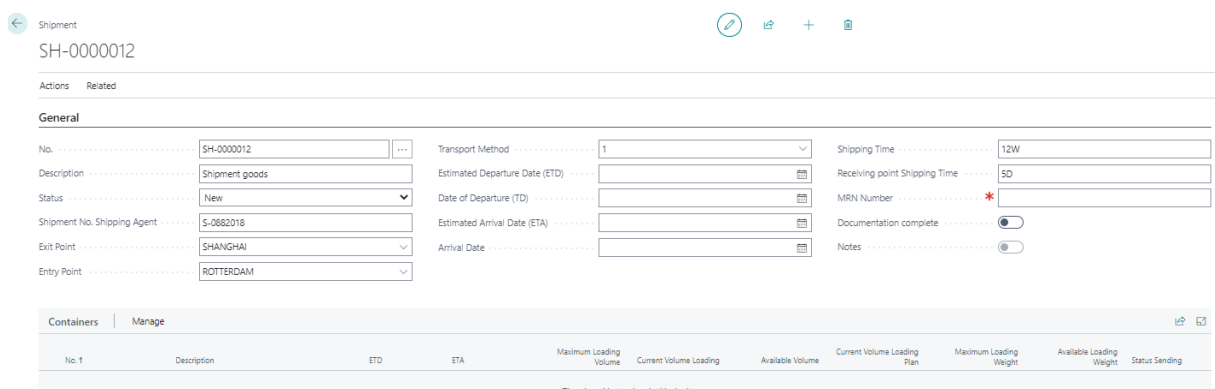
Using Container Shipment app

With the installation of the extension the page **Shipment List** will be available. On this page you first need to create a new shipment. Then a container needs to be created. When the container is created, you can add the Purchase Lines in the container.

1. Create Shipment

Create a new Shipment Card with the **+ New** Button in the ribbon of the Shipment List page.

- Create a new **Shipment Number** (field **No.**). This can be done automatically by using the Number Series which is entered in the Container Shipment setup.



Shipment
SH-0000012

Actions Related

General

No.	SH-0000012	Transport Method	1	Shipping Time	12W
Description	Shipment goods	Estimated Departure Date (ETD)		Receiving point Shipping Time	5D
Status	New	Date of Departure (TD)		MRN Number	*
Shipment No. Shipping Agent	S-0682018	Estimated Arrival Date (ETA)		Documentation complete	<input type="checkbox"/>
Exit Point	SHANGHAI	Arrival Date		Notes	<input type="checkbox"/>
Entry Point	ROTTERDAM				

Containers | Manage

No. 1	Description	ETD	ETA	Maximum Loading Volume	Current Volume Loading	Available Volume	Current Volume Loading Plan	Maximum Loading Weight	Available Loading Weight	Status Sending
(There is nothing to show in this view)										

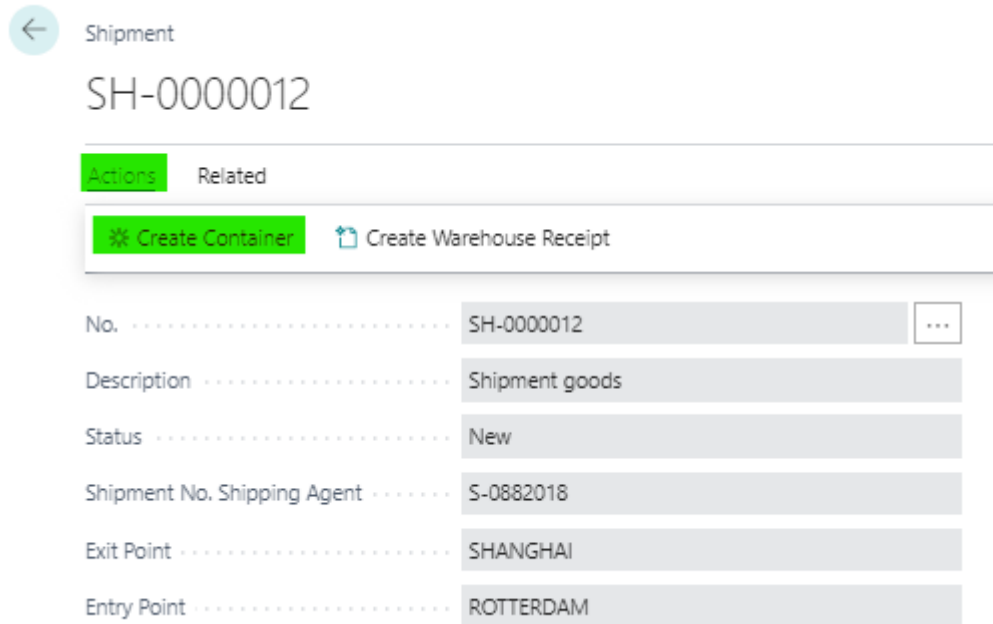
- Enter a **description** for the shipment
- Enter the **Shipment Number Shipping agent** (optional). This is the shipping number of the Shipping Agent which is transferring the items.
- Enter the Exit Point. This is the point where the container are leaving from.
- Enter the Entry Point. This is the point where the container is arriving the country of destination

- f. Enter the **Transport Method** of the Shipment. The Transport Method is a standard Business Central table.

2. Create Container and add the Purchase Order Lines

After the Shipment is created, the Container needs to be created.

- a. Choose in the Shipment Card for **Actions -> Create Container**.



← Shipment

SH-0000012

Actions Related

✳ Create Container Create Warehouse Receipt

No. SH-0000012 ...

Description Shipment goods

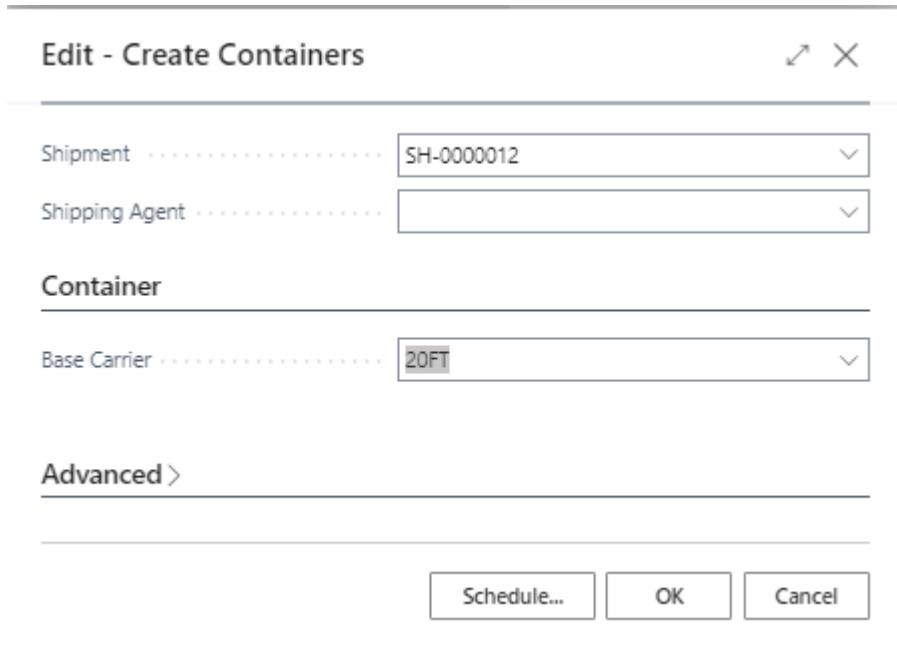
Status New

Shipment No. Shipping Agent S-0882018

Exit Point SHANGHAI

Entry Point ROTTERDAM

- b. In the screen Edit – Create Containers you need to enter at least the wanted Base Carrier.



Edit - Create Containers

Shipment SH-0000012

Shipping Agent

Container

Base Carrier 20FT

Advanced >

Schedule... OK Cancel

- c. Choose for the Button “OK” to create the container.
- d. A new screen will be opened, **Loading Planning Containers**.
 - i. The **No.** will be created automatically. The number is created automatically with the Number Series which is mentioned in the field **Number Series Container** in the **Container Shipment wizard**
 - ii. The **Description** will be copied from the base carrier

- iii. The fields **Maximum Loading Volume**, **Maximum Loading Weight** will be copied from the base carrier.
- e. Select the Purchase Lines which belongs to the container. Choose for **Actions -> Select Purchase Order Lines** from the Ribbon.

← Loading Planning Containers ✓ Saved

CT-0000012 · SH-0000012

Select Purchase Order Lines
Calculate Volume and Weight

No.	CT-0000012	...	Available Volume	0,00
Description	20FT Container		Current Volume Loadi...	0,00
ETD		📅	Maximum Loading W...	30.000,00
ETA		📅	Available Loading Wei...	30.000,00
Maximum Loading Vo...	0,00		Status Sending	New
Current Volume Loadi...	0,00			

Lines | **Manage** 🔗 📄

Purchase Order No.	Purchase Order Line No.	Rec...	Shipment No.	Item No.	Item Description	Variant Code	Pu
→	0	<input type="checkbox"/>					

- f. In the screen **Container Purchase Order Lines** you will find all the Purchase Order Lines with the status **Released** (On the Purchase Order Header) and all the Purchase Order Lines where the field **Shipment No.** is empty.

Container Purchase Order Lines | P - -







No.	Type	Description	Description 2	Location Code	Bin Code	Quantity	Reserved Quantity	Unit of Measure Code	Document Type	Document No.	Buy-Item Vendor No.	Amount	Qty. to Invoice	Qty. to Release	Direct Unit Cost	Line No.	Unit of Measure	Shipment No.	Estimated Dispatch Date (ETD)	Estimated Dispatch Date (ETA)
1264-S	Item	TOYO Bessemerst. blau				14	0	STUKS	Order	126002	22002	2.115,40	14	14	151,10	10000	Stuk			
1900-S	Item	PARUS Bessemerst. zwart				8	0	STUKS	Order	126003	40000	1.208,80	8	8	151,10	10000	Stuk			
1900-S	Item	ZHONGI Draaier, blau				20	0	STUKS	Order	126003	40000	2.979,00	20	20	148,95	20000	Stuk			
1900-S	Item	AHENE Mobile onderstel				20	0	STUKS	Order	126003	40000	6.790,00	20	20	339,50	20000	Stuk			
1996-S	Item	ATLANTA Whiteboard, basis				2	0	STUKS	Order	126004	30000	2.190,00	2	2	1.095,00	20000	Stuk			
1886-S	Item	AHENE Tafel			HOOPD-	180	0	STUKS	Order	126006	30000	117.680,00	180	180	764,60	10000	Stuk			
1900-S	Item	PARUS Bessemerst. zwart			HOOPD-	600	0	STUKS	Order	126006	30000	90.680,00	600	600	151,10	20000	Stuk			
1900-S	Item	AHENE Mobile onderstel			HOOPD-	180	0	STUKS	Order	126006	30000	60.860,00	180	180	339,89	20000	Stuk			
1929-W	Item	Vergaderstafel 1-8			HOOPD-	200	0	STUKS	Order	126013	30000	240.000,00	0	0	1.200,00	10000	Stuk			
1900-S	Item	AHENE Mobile onderstel			HOOPD-	80	0	STUKS	Order	126016	40000	16.890,00	0	0	339,89	30000	Stuk			
1989-S	Item	BOVA Bessemerst. rood			HOOPD-	180	0	STUKS	Order	126020	40000	22.860,00	0	0	151,10	10000	Stuk			
1964-S	Item	TOYO Bessemerst. blau			HOOPD-	150	0	STUKS	Order	126022	40000	22.665,00	0	0	151,10	20000	Stuk			
1900-S	Item	BIRLIN Bessemerst. geel			HOOPD-	200	0	STUKS	Order	126021	50000	30.220,00	200	200	151,10	10000	Stuk			
1900-S	Item	PARUS Bessemerst. zwart			HOOPD-	220	0	STUKS	Order	126021	50000	33.242,00	220	220	151,10	20000	Stuk			
1900-S	Item	ANTWERPEN Vergaderstafel			HOOPD-	170	0	STUKS	Order	126021	50000	86.360,00	170	170	508,00	30000	Stuk			
1929-S	Item	Bureaubanklamp			HOOPD-	180	0	STUKS	Order	126021	50000	7.758,00	180	180	43,10	40000	Stuk			

- g. Select the Purchase Order Lines which are shipped in the created container and click on the button **OK**.

Container Purchase Order Lines | 🔍 ⌵ ... ↗ ✕

<input type="radio"/> No.	Reserved Quantity	Unit of Measure Code	Document Type ▼	Document No. ↑	Buy-from Vendor No.	Amount	
<input type="radio"/> 1964-S	0	STUKS	Order	106002	20000	2.115,40	
<input type="radio"/> 1900-S	0	STUKS	Order	106003	40000	1.208,80	
<input type="radio"/> 1908-S	0	STUKS	Order	106003	40000	2.978,00	
<input type="radio"/> 1906-S	0	STUKS	Order	106003	40000	6.798,00	
<input type="radio"/> 1996-S	0	STUKS	Order	106004	30000	2.190,60	
<input type="radio"/> 1896-S	0	STUKS	Order	106006	30000	117.690,00	
<input type="radio"/> 1900-S	0	STUKS	Order	106006	30000	90.660,00	
<input type="radio"/> 1906-S	0	STUKS	Order	106006	30000	50.985,00	
<input type="radio"/> 1929-W	0	STUKS	Order	106013	30000	240.000,00	
<input type="radio"/> 1906-S	0	STUKS	Order	106016	40000	16.995,00	
<input checked="" type="radio"/> 1988-S	0	STUKS	Order	106020	40000	22.665,00	
<input checked="" type="radio"/> 1964-S	0	STUKS	Order	106020	40000	22.665,00	
<input checked="" type="radio"/> 1936-S	0	STUKS	Order	106021	50000	30.220,00	
<input checked="" type="radio"/> 1900-S	0	STUKS	Order	106021	50000	33.242,00	
<input checked="" type="radio"/> 1920-S	0	STUKS	Order	106021	50000	86.360,00	
→ <input checked="" type="radio"/> 1928-S	⋮	0	STUKS	Order	106021	50000	7.758,00

- h. The page Loading Planning Containers will be shown where the selected Purchase Order Lines will be added.

← Loading Planning Containers   +  ✓ Saved   


CT-0000012 · SH-0000012


Actions

General

No. CT-0000012 ... Available Volume 0,00



Description 20FT Container Current Volume Loadi... .. 0,00

ETD  Maximum Loading W... .. 30.000,00

ETA  Available Loading Wei... .. 30.000,00

Maximum Loading Vo... .. 0,00 Status Sending New

Current Volume Loadi... .. 0,00

Lines | Manage  

Purchase Order No.	Purchase Order Line No.	Rec...	Shipment No.	Item No.	Item Description	Variant Code	Pu
106020	10000	<input type="checkbox"/>	SH-0000012	1988-S	SEOUL Bezoekersstoel, rood		
106020	20000	<input type="checkbox"/>	SH-0000012	1964-S	TOKYO Bezoekersstoel, blauw		
106021	10000	<input type="checkbox"/>	SH-0000012	1936-S	BERLIJN Bezoekersstoel, geel		
106021	20000	<input type="checkbox"/>	SH-0000012	1900-S	PARIJS Bezoekersstoel, zwart		
106021	30000	<input type="checkbox"/>	SH-0000012	1920-S	ANTWERPEN Vergadertafel		
106021	40000	<input type="checkbox"/>	SH-0000012	1928-S	Bureaudraailamp		
→	0	<input type="checkbox"/>					


- i. You can optional execute the function Actions -> Calculate Volume and Weight. So you can see what the available measurements are.

3. Enter the (Estimated) Departure Date

On the Shipment Card you can enter the (Estimated) Departure Date. When you enter a date, the Arrival Date will be calculated also.

- a. **Calculation of Dates on the Shipment Card:**
- (Estimated) Departure Date (ETD)) + Shipping Time = **Estimated Arrival Date (ETA)**
 - **Arrival Date:** Estimated Arrival Date (ETA) + Receiving Point Shipping time

4. **Expected Receipt Date on the Purchase Order Lines:** When a Arrival Date is calculated, the Container Shipment app wants to change the Expected Receive Date on the Purchase Order Lines. Every time the Arrival Date is changed, the following message will appear

 Would you like to change the Expected Receipt Date on the linked Purchase Lines ?

Yes No

When you click on **OK**, the expected Receive Date will be changed on the Purchase Order

Lines which are selected. When you have a Sales Order Line connected to the Purchase Order Lines with a **reservation**, the **Shipment Date** on the Sales Order Lines will also change.

- a. The following information will also be available on the Purchase Order Lines:
 - i. Shipment No.
 - ii. Estimated Departure Date (ETD)
 - iii. Departure Date (DT)
 - iv. Estimated Arrival Date (ETA)
- b. Not only on the Purchase Order Lines you will find the Shipment Number. Also on the following lines, the Shipment Number is available:
 - i. Purchase Invoice Lines
 - ii. Posted Purchase Receipt Lines
 - iii. Warehouse Receipt Lines
 - iv. Posted Warehouse Receipt Lines
 - v. Reservation Entries

5. Receiving a container in the Warehouse.

When you want to receive the container in the Warehouse, you need to have the option **Require Receive** enabled of used Locations.

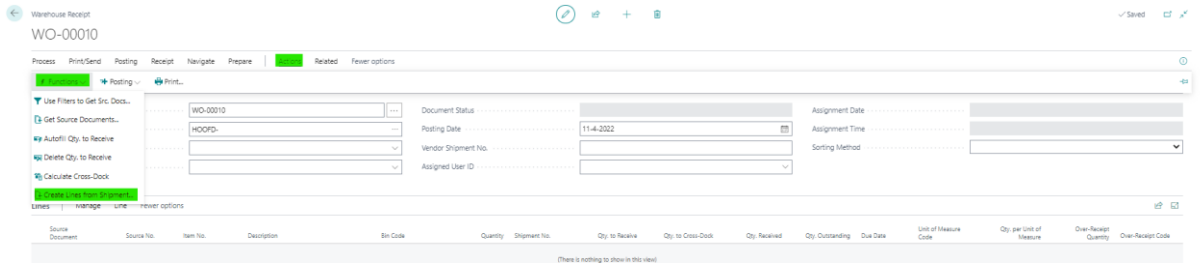
There are two methods of receive the container in the Warehouse

- a. **From the Shipment Card:** When you want to create a new Warehouse Receipt for the Purchase Order Lines which you selected in the container, then you need to select the function Actions -> Create Warehouse Receipt from the ribbon of the Shipment Card.

For every location from the Purchase Order Lines, there will be one Warehouse Receipt be created. You need to use this option when you have entered more than one Location on the Purchase Order Lines.

- b. **From a newly created Warehouse Receipt Card:** On the Warehouse Receipt the new function, **Create Lines from Shipment** is added. You will find the function in the Ribbon

of the Warehouse Receipt in **Actions -> Functions.**



- i. When selecting this option, you need to enter the correct **Shipment No.** in the screen **Create Warehouse Lines From Shipment** which you want to receive.

Create Warehouse Lines From Shipment



Shipment

No. SH-0000012

Advanced >

Schedule... OK Cancel

- ii. When you have entered the correct Shipment No., then you need to select **“OK”**. Then the Purchase Order Lines will be added in the Warehouse Receipt.