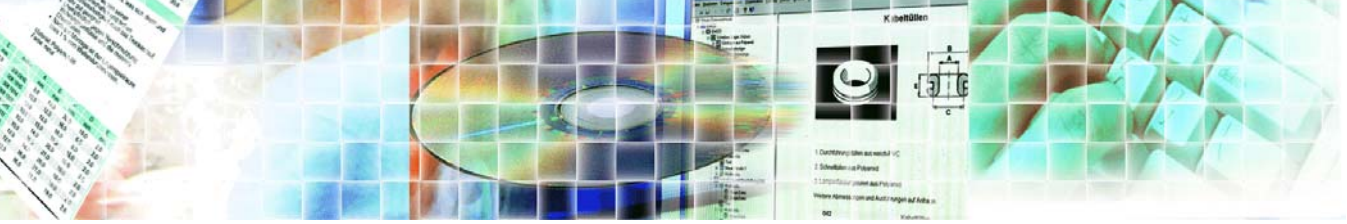


Exercise 9

Creating Illustrated Catalogs

One innovation of the catalogCREATORsuite is the possibility to define assemblies in a catalog. An assembly consists of individual parts, whereby a part itself can be a subassembly.

Beside the manual entry of parts into an assembly, SVG drawings or IsoDraw drawings can be inserted, as long as no parts are contained in the assembly. The insertion of SVG drawings is absolutely identical to the method for inserting IsoDraw files.

In order to work with illustrated catalogs, you at least have to use the **IPC (Illustrated Parts Catalog)** application.

Note

Note: **IsoDraw files** only can be inserted, if you have installed the corresponding viewer.

In this example you will use identical SVG- or IsoDraw files to learn how to

- create an assembly
- to link an alleged IsoDraw file, the relevant parts list and the drawing for the print
- import subassemblies
- reference assemblies to parts in the main assembly
- import prices for the subassemblies
- determine the ability to order parts
- edit the history of parts
- export a catalog with parts
- invoke a subassembly

Setting the Database

In the first step you load the lesson9.mdb database. This database contains the results of the previous exercises.

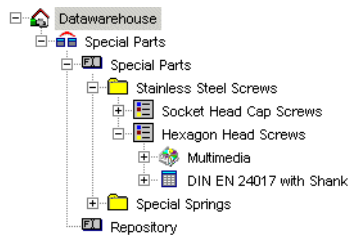
1. On the Options menu click -> **Settings...**
2. In the **Options** dialog box under General select the **Database** entry.
3. From the Database list select **MS-Access**.
4. Under Database open the following database, that is located in the data9 tutorial folder: **..\tutorial\data9\lesson9.mdb**. With this the **..\tutorial\data9** working folder is set automatically. This folder contains all data that were created in the course of the tutorials 1 to 8.
5. Press **OK**, to close the Options dialog.
6. Confirm the following dialog with **Yes**.

Locking the Database for Editing

The data structure is unavailable at first, since the database was not yet locked for editing. For this reason lock the database for editing.

1. In the data structure select the **Datawarehouse** entry.
2. Press the right mouse button  .
3. Select the **Lock for editing...** option from the shortcut menu.

Consequently all levels and elements of the catalog are locked for editing. You can recognize that the database can be edited on the symbol at Datawarehouse and on the display of the data structure, which is available now.



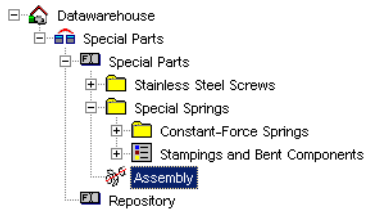
Creating an Assembly

Now you create an assembly in your catalog.

1 In the data structure select the **Special Parts** catalog.

2 To insert an assembly and a subassembly you have the following options:

-  From the shortcut menu select the **New Assembly** entry.
- Menu: Illustrated Catalog ->  New Assembly
- Elements Toolbar: 



Changing the Properties of the Assembly

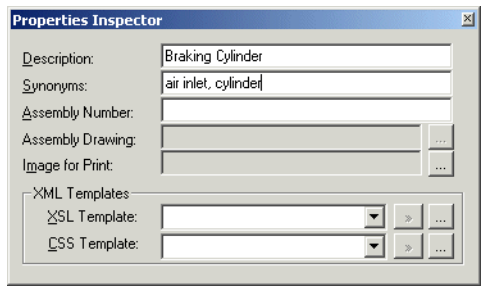
In this step you change the information for the assembly and supplement several new entries.

1 Select the inserted assembly.

2 Press the right mouse button and select the **Properties...** option from the shortcut menu or press the **F6** key.

3 Change the Assembly entry to *Braking Cylinder* in the Properties Inspector.

Enter the following synonyms: *air inlet, cylinder*



4 To close the Inspector window click  .

Note

If you want to learn how to work with IsoDraw, follow the instructions for the SVG data.

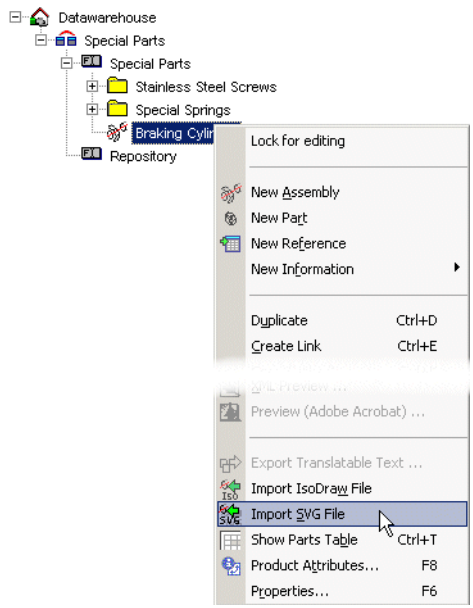
The corresponding IsoDraw files are located in the ../Source/Assembly/ISO folder.

Importing SVG Files and Parts List of the Assembly

A parts catalog contains individual pages with a drawing, drawings for the printout and an accompanying parts list. Beside the image itself, there are additional entries such as spare part availability, history, or other order information, which are displayed together with the drawing.

In the first step you import a SVG file, which contains two subassemblies, the accompanying print drawing and the parts list.

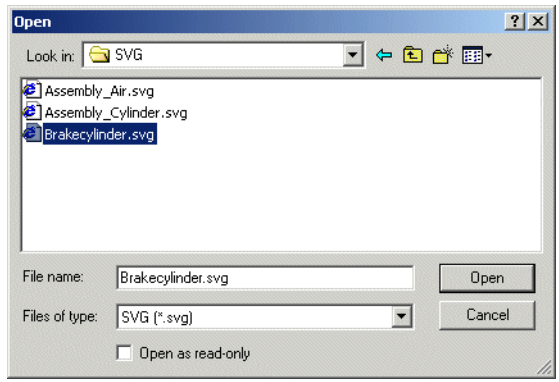
1. In the data structure select the **Braking Cylinder** entry.
2.  From the shortcut menu select the **Import SVG File** option (if you are working with IsoDraw you have to click **Import IsoDraw File** here).



3 In the Import SVG File dialog box click the ... button at **SVG File**.

4 Select the **Brakecylinder.svg** file from the ../Tutorial/Source/Assembly/SVG folder.

5 In the Open dialog box select the **Brakecylinder.svg** file and press the **Open** button.



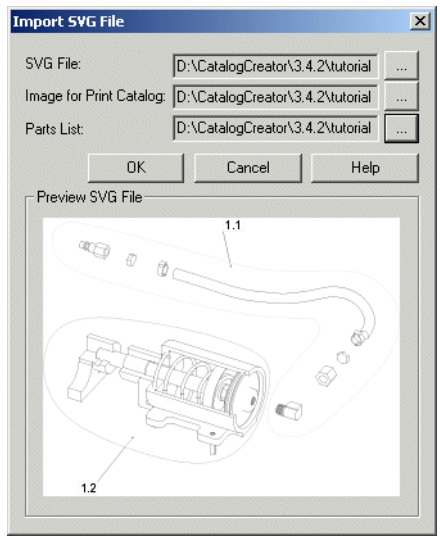
6 In the Import SVG File dialog box click the ... button at **Image for Print Catalog**.

7 Select the **Brakecylinder.jpg** file from the ../Tutorial/Source/Assembly/Print folder.

8 In the Import SVG File dialog box click the ... button at **Parts List**.

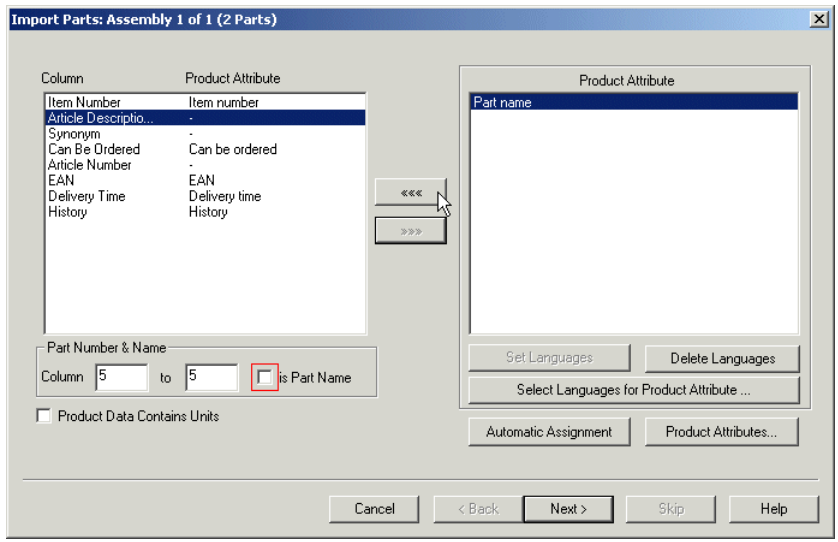
9 Select the **Brakecylinder.txt** file from the ../Tutorial/Source/Assembly/Parts List folder.

10 In the Import SVG File dialog box press the **OK** button to start the import process.



The Braking Cylinder consists of two assemblies, which contain parts themselves: Air Inlet and Cylinder.

The **Import Parts** dialog box is opened.



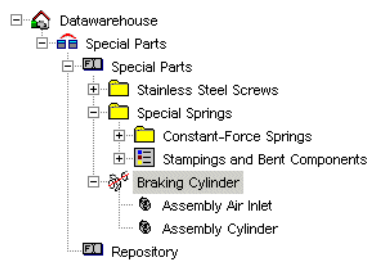
11 Clear the **is Part Name** option.

12 In the left column select the **Article Description**. In the right column select the Part Name attribute and press the ««« button to assign the attributes.

13 Press the **Next >** button.

14 In the Preview dialog box click **Finish**.

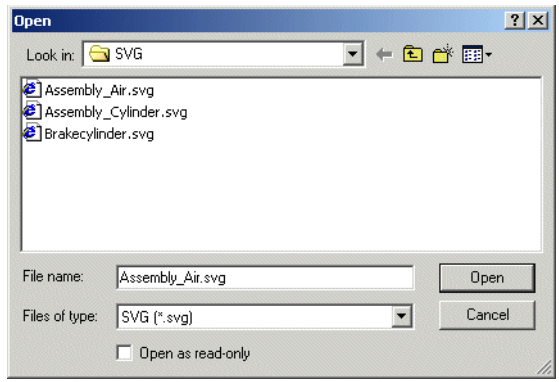
Through the import, the assemblies that are available in the drawing are displayed in the data structure.



Importing Subassemblies

In this step you import the information for the two assemblies Air Inlet and Cylinder. For this the corresponding subassemblies have to be created underneath the **Braking Cylinder** assembly.

1. In the data structure select the **Braking Cylinder** assembly.
2. To insert a subassembly you have the following options:
   - Menu: Illustrated Catalog -> New Assembly
   - From the shortcut menu select the **New Assembly** entry.
   - Elements Toolbar:
3. Select the inserted subassembly.
4. Press the right mouse button and select the **Properties...** option from the shortcut menu or press the F6 key.
5. In the Properties Inspector change the description Assembly to *Air Inlet* and enter *11-110* as the assembly number.
6. To close the Inspector window click .
7. Select the **Air Inlet** assembly.
8. From the shortcut menu select the **Import SVG File** option.
9. In the **Import SVG File** dialog box click the ... button at SVG File.
10. Select the **Assembly_Air.svg** file from the ../Tutorial/Source/Assembly/SVG folder.



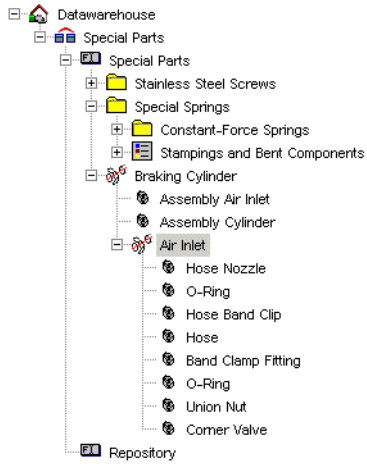
11. Click the **Open** button.
12. In the **Import SVG File** dialog box click the ... button at Parts List.
13. Select the **Assembly_Air.txt** file from the ../Tutorial/Source/Assembly/Parts List folder.
14. Press the **OK** button.
15. The **Import Parts** dialog is opened. Clear the **is Part Name** option.

16 In the left column select the **Article Description** and assign it the **Part Name**.

17 Press the **Next >** button.

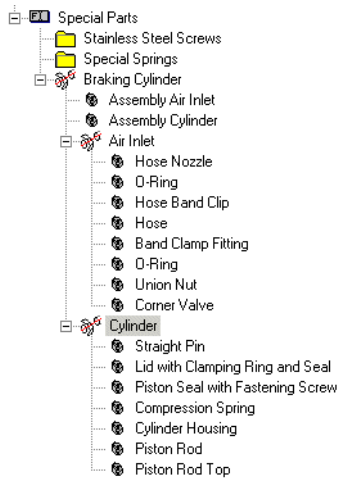
18 In the Preview dialog box click **Finish**.

Now the parts of the subassembly are displayed in the data structure.



19 Repeat the steps 1-19 to insert the **Cylinder** subassembly.

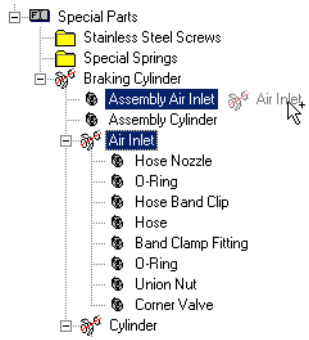
- In the Properties Inspector change the description Assembly to *Cylinder* and enter *12-120* as the assembly number.
- Select the ../Source/Assembly/SVG/**Assembly_Cylinder.svg** as the drawing in the Open dialog box and the ../Tutorial/Source/Assembly/Parts List/**Assembly_Cylinder.txt** file for the parts list.



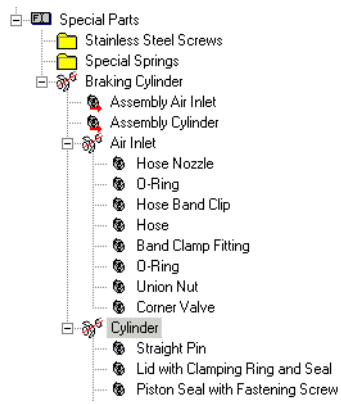
Creating a Reference from the Subassemblies to the Assemblies

Having inserted the subassemblies, you will create the reference to the Air Inlet and Cylinder assemblies.

1. Select the **Air Inlet** subassembly.
2. Press the left mouse button and move the **Air Inlet** subassembly to the **Air Inlet** assembly. The referenced is indicated with a red arrow.



3. Repeat steps 1-2 for the **Cylinder** subassembly.



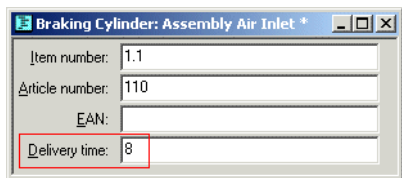
Changing the Properties of the Subassembly

In this step you will learn how to change the information for the subassemblies.

1. Select the **Braking Cylinder** assembly.
2. Press the right mouse button and select the **Show Parts Table** option from the shortcut menu or press the **Ctrl+T** key combination.
3. In the table change the values for the delivery time of the **Air Inlet** and **Cylinder** assemblies from 4 to *8* days.

Part	Item number	Linked assembly	Article number	EAN	Delivery time	History
Assembly Air Inlet	1.1	Air Inlet	110		8	Complete Air Inlet Consisting (2x), Hose (1 m) , Hose Band Übergangsstück and Corner
Assembly Cylinder	1.2	Cylinder	120		8	Complete Cylinder Consisting

4. To close the window click ✕.
5. Click **Yes** in the following message box. With this the entries are taken over.
6. In the data structure double-click the **Assembly Air Inlet** entry.



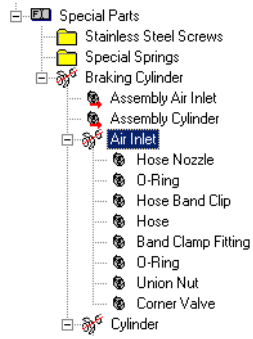
As you can see, the values that were changed in the table are taken over into the dialog.

7 To close the dialog click .

Importing Prices for the Subassemblies

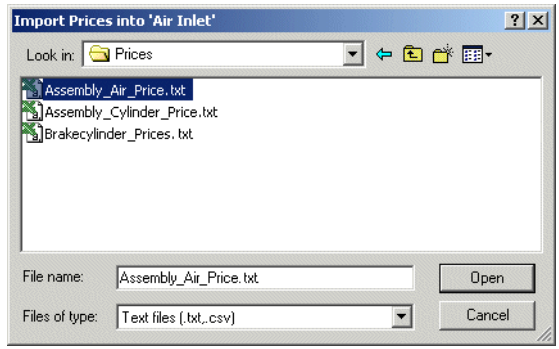
For the insertion of prices from a file you can proceed in the same way as described in exercise 3. You import prices for the Air Inlet and Cylinder subassemblies from a file.

1 In the data structure select the **Air Inlet** subassembly.



2 From the shortcut menu select the **Import Prices -> From a File...** entry.

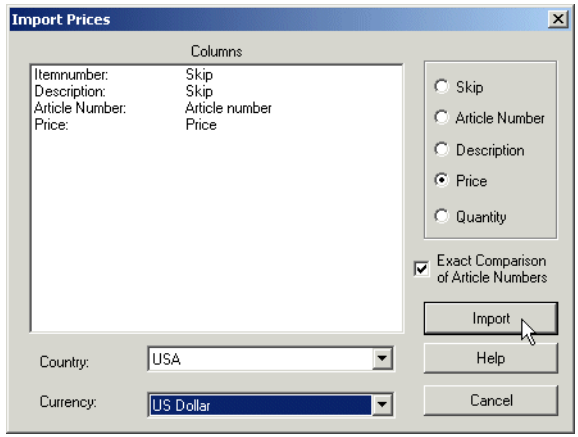
3 From the **Import Prices in 'Air Inlet'** dialog box select the ../Tutorial/Source/Assembly/Prices/**Assembly_Air_Price.txt** file.



4 Click the **Open** button.

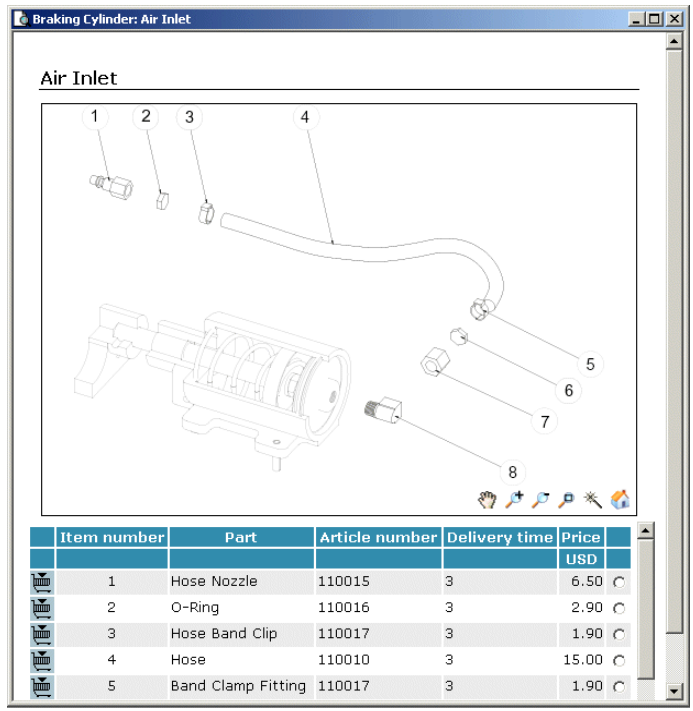
There are four columns in this price file. The Item Number and Article Description columns do not affect the prices and can be skipped in the **Import Prices** dialog box.

5 Assign the article number and the prices.



6 Under Country select **USA**, under Currency **US Dollar** and press the **Import** button.

7 Double-click the **Air Inlet** entry to open the preview of the product page.



	Item number	Part	Article number	Delivery time	Price USD	
	1	Hose Nozzle	110015	3	6.50	
	2	O-Ring	110016	3	2.90	
	3	Hose Band Clip	110017	3	1.90	
	4	Hose	110010	3	15.00	
	5	Band Clamp Fitting	110017	3	1.90	

8 Now insert the prices for the Cylinder subassembly. To do this repeat steps 1-7. From the **Import Prices in 'Cylinder'** dialog box select the ../Tutorial/Source/Assembly/Prices/ **Assembly_Cylinder_Price.txt** file. Display the preview.

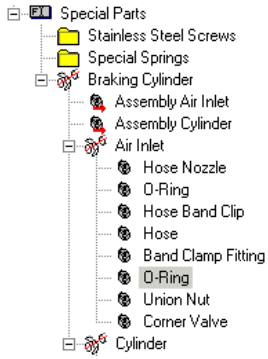
	Item number	Part	Article number	Delivery time	History	
	9	Straight Pin	120023	3		
	10	Lid with Clamping Ring and Seal	120014	3		
	11	Piston Seal with Fastening Screw	120015	5	History	
	12	Compression Spring	120012	3		
	13	Cylinder Housing	120010	5	History	
	14	Piston Rod	120013	3		

9 Close the preview of the **Cylinder** subassembly.

Changing a Part

Now you will carry out several changes for the O-Ring in the Air Inlet subassembly.

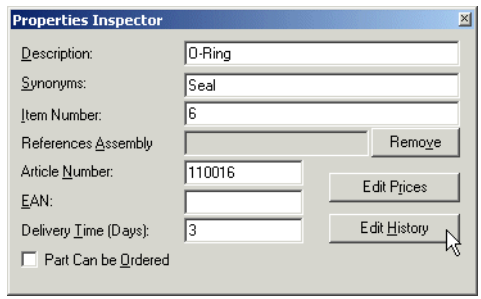
1 In the data structure select the **O-Ring** (see illustration).



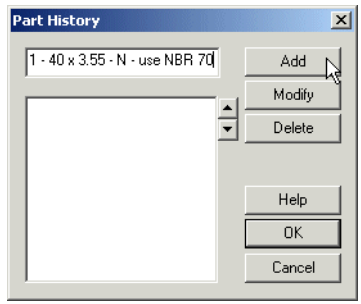
2 From the shortcut menu select the **Properties...** entry or press the **F6.** key.

3 Clear the **Part Can be Ordered** option.

4 Press the **Edit History** button.



5 In the entry field of the Part History dialog box enter: *28.02.2003: Standard Part DIN 3771 - 40 x 3.55 - N – use NBR 70*



6 Press the **Add** button and then **OK**.

7 To close the Properties Inspector click ✕.

8 Proceed in the same way for the second **O-Ring**.

9 Display the preview of the Air Inlet subassembly again or update the preview of the Air Inlet subassembly by pressing the symbol on the Standard toolbar, or by pressing the F5 key.

	1	Hose Nozzle	110015	3		6.50	
	2	O-Ring	110016	3	History	2.90	
	3	Hose Band Clip	110017	3		1.90	
	4	Hose	110010	3		15.00	
	5	Band Clamp Fitting	110017	3		1.90	
	6	O-Ring	110016	3	History	2.90	
	7	Union Nut	110011	3		8.00	

As you can see, the shopping cart was removed, having cleared the **Part Can be Ordered** option in the Properties Inspector. Additionally the **History** link was inserted by adding a part revision.
If you have done this exercise with an IsoDraw file, click the following reference to continue.

Exporting the Parts Catalog

To check the functionality of the inserted assemblies, you export the catalog in this step.

1 In the data structure select the **Special Parts** catalog.

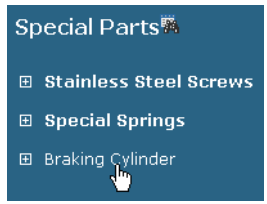
2 Select File menu -> Export Catalog -> As Website -> **XML Format...**

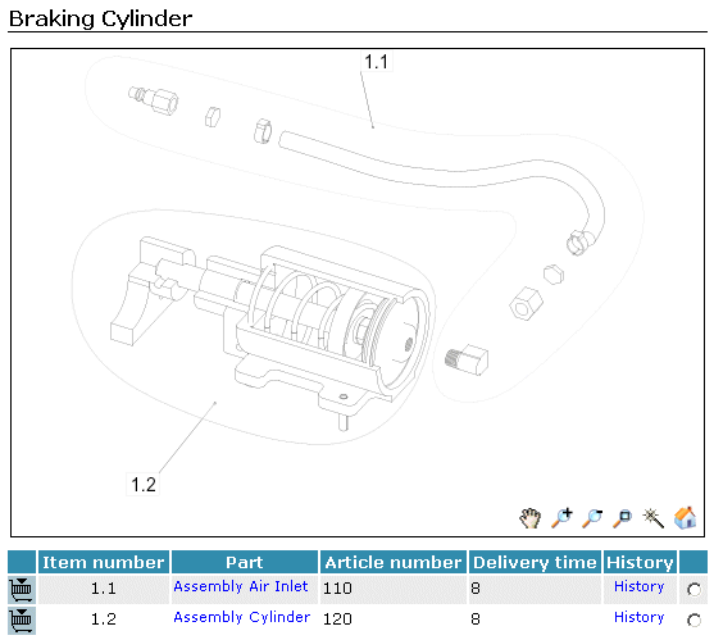
3 In the 'Export Website' dialog box select the **US Catalog** and press the **Export** button.

4 Click **Yes** in the catalogCREATORsuite dialog, to display the catalog.

5 Click the **US Flag** or **US Catalog**, to open the navigation pages of the catalog.

6 On the navigation bar select the **Braking Cylinder** entry.





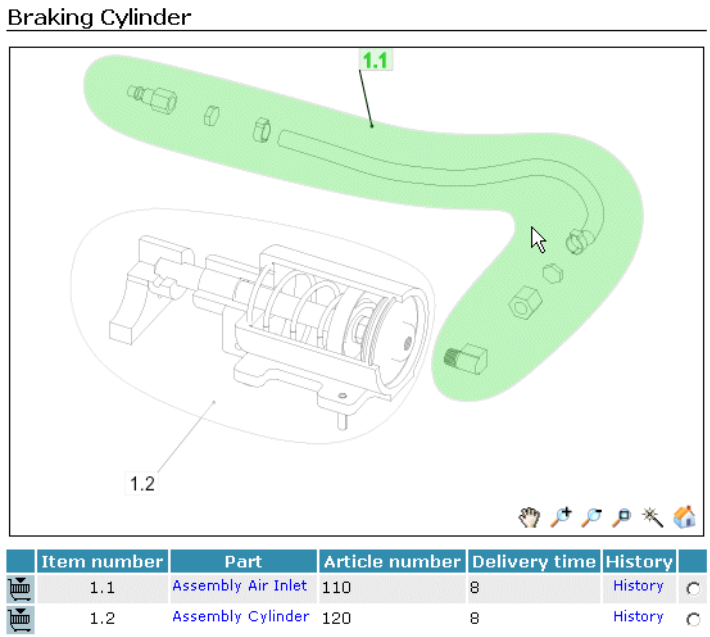
The part page is opened.

Underneath the Braking Cylinder title you can see the drawing that is displayed in SVG format. If you move the mouse pointer over an area that was defined as a hotspot, the item number is displayed in green color (see previous illustration).

Displaying a Part in the Article Table

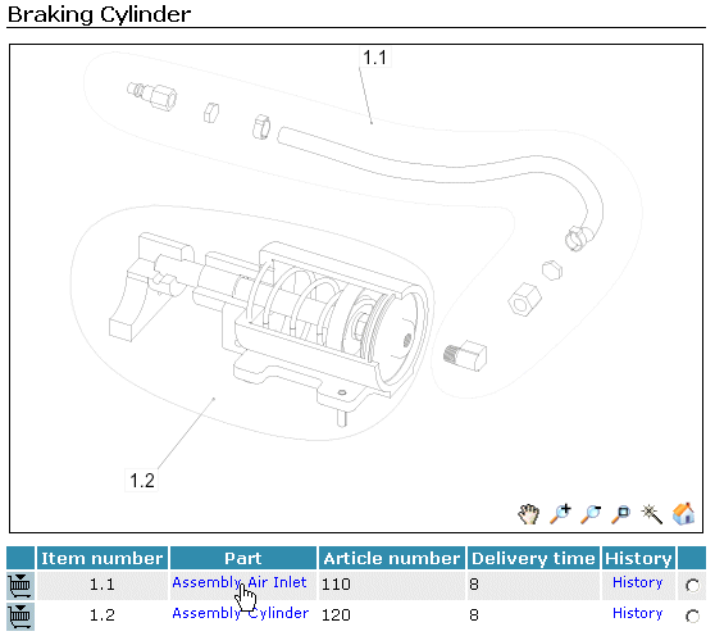
1 Click the item number 1.1 in the drawing.

The Air Inlet assembly is highlighted and the option button is cleared.



Activating the option button also highlights the assembly or the part or assembly in the drawing.

2 Click the item number 1.2 the drawing.

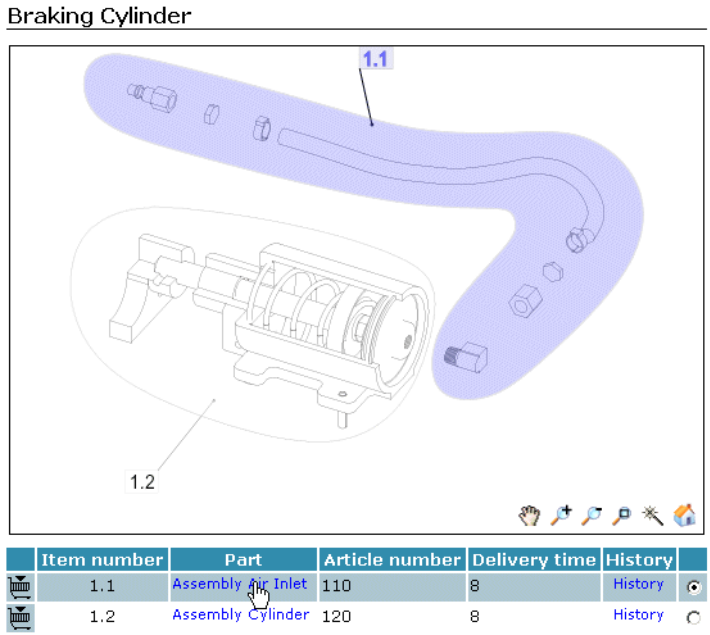


Displaying a Subassembly

In the following step you open the Air Inlet subassembly.

There are several ways to display a subassembly in the exported catalog.

1 Click the **Air Inlet** assembly in the part column. The entry is a reference to the subassembly.



The (Air Inlet) assembly is opened.

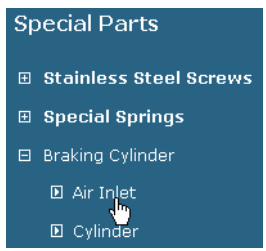
To return to the Braking Cylinder, click the Braking Cylinder entry in the navigation.

2 The second possibility is to double-click one of the areas that are defined as hotspots.

Double-click the item number 1.2 or the area defined as 1.2, to open the Cylinder subassembly.

To return to the Braking Cylinder again, click the Braking Cylinder entry in the navigation.

3 Of course you can open the Braking Cylinder entry in the navigation and open the desired subassembly.



That is the end of exercise 9.

Review Questions

1. What is an illustrated catalog?
2. What is a graphical navigation?
3. How can you display a part in the drawing?
4. Where can you make the setting to display a part in the shopping cart?

Answers

1. Graphical navigation is a visual navigation where assemblies or parts are highlighted in the parts list if the cursor moves over them in the exported catalog.
2. A part can be displayed in two ways: By clicking the corresponding item number in the drawing or by clicking the corresponding row in the parts list.
3. The **Part can be ordered** option can be cleared in the Properties Inspector. An assembly or a part that can not be ordered is displayed without a shopping cart in the exported catalog.