

Table of Contents

4. Working with CAD applications	3
4.1. Working with NX	3
4.2. exercises - working with NX	8
4.2 Working with AutoCAD	23

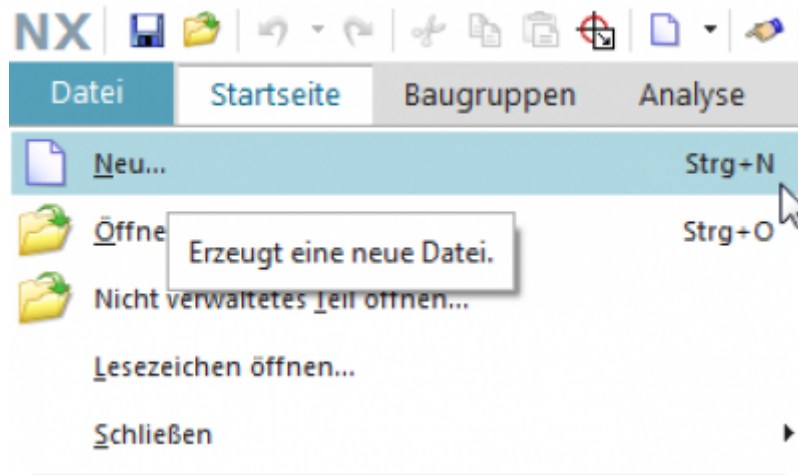
4. Working with CAD applications

4.1. Working with NX

4.1.1 Create and save parts

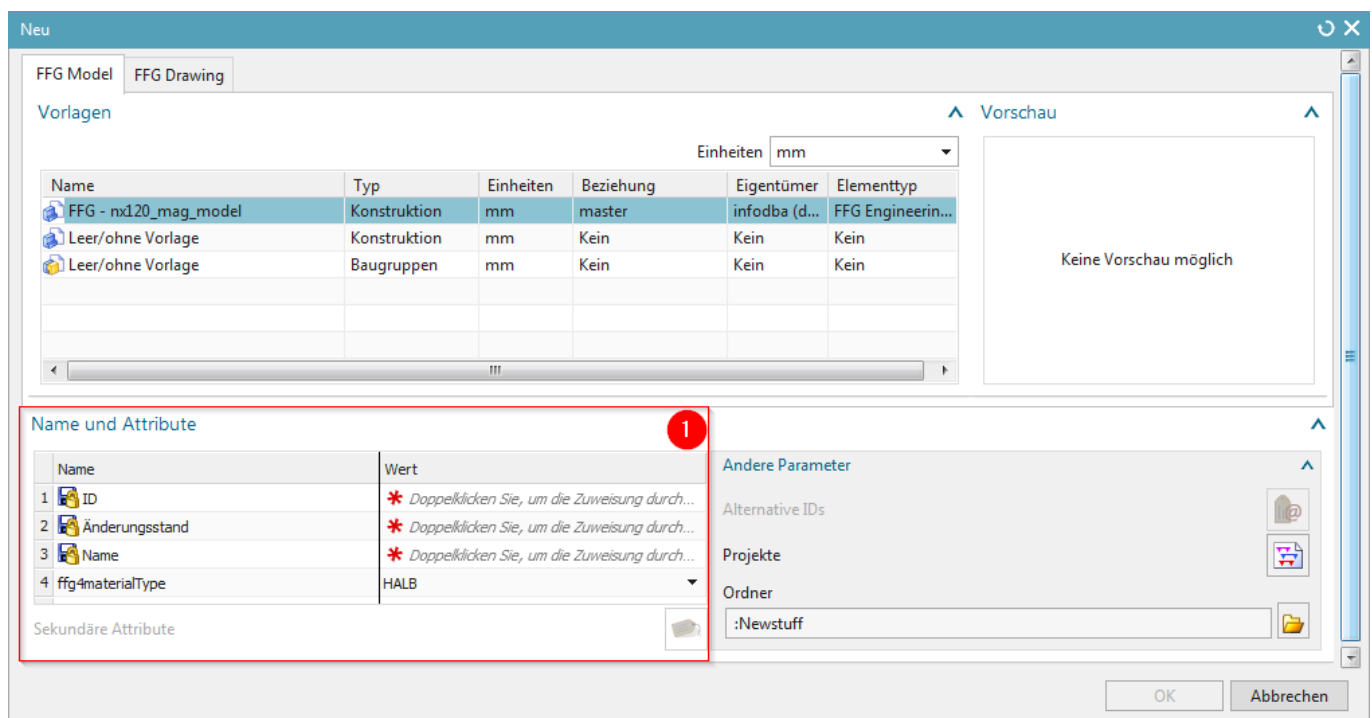
When creating a new item with UGMaster, proceed as follows:

file → New... (CTRL+N)



- The creation of a new item as master part is visible as relationship “master” and contains the model.
- The creation of a new non-master part is visible as relationship “specification and contains the DrawingPart.

Selection of the seed part FFG_NX120_mag_model and filling of the mandatory attributes



1 Here certain mandatory attributes must be assigned to the newly created item.

There are three procedures to open a UGMaster or UGPart existing in Teamcenter:

1. way:

Select the desired dataset directly in Teamcenter and open it via the NX icon  in the toolbar.

2. way:



Double-click on the desired dataset (UGMaster or UGPart) in Teamcenter under the Revision item.

**Info:**

If you have already opened NX and are using a feature there at this moment, an error message is displayed in Teamcenter. Close the feature in NX and then try again.

3. way:

Teiledatei öffnen

Durchsuchen

Suche in Newstuff

Objekt	Nummer	Ä.	Beschreibung	Typ	At
Use Cases				Ordner	
+ X.0000.0003 PIN BOL...	X.0000.0003			FFG Engineering Item	
+ X.0000.0004 HOLDING ...	X.0000.0004			FFG Engineering Item	
+ X.0000.3646 MACHINI...	X.0000.3646			FFG Engineering Item	Ba
+ X.0000.3749 PIN BOL...	X.0000.3749			FFG Engineering Item	
+ X.0000.9028 SCREW	X.0000.9028			FFG Engineering Item	
+ X.0000.9030 SCREW S...	X.0000.9030			FFG Engineering Item	
+ X.0003.0032 MACHINI...	X.0003.0032			FFG Engineering Item	
+ X.0004.7713 COVER PL...	X.0004.7713			FFG Engineering Item	
- X.0004.7715 SHEET ME...	X.0004.7715			FFG Engineering Item	
- X.0004.7715-00 SH...	X.0004.7715	00		FFG Engineering Item Revision	
X.0004.7715-00	X.0004.7715	00	X.0004.7715-00	Drawing	Do
X.0004.7715-00	X.0004.7715	00		Model	Do
+ X.0004.7737 SHEET ME...	X.0004.7737			FFG Engineering Item	

Number: Änderungsstand: Name:

Typ: Alle

Vorschau

Keine Vorschau möglich

Eigenschaften

Suchen

Enter Search Term Here

Erweiterte Suche...

Ladeoptionen für Baugruppen

☐ Nur Struktur laden

Änderungsstandregel Latest Working

Ladeoptionen...

Option Teilweise geladen

OK

Abbrechen

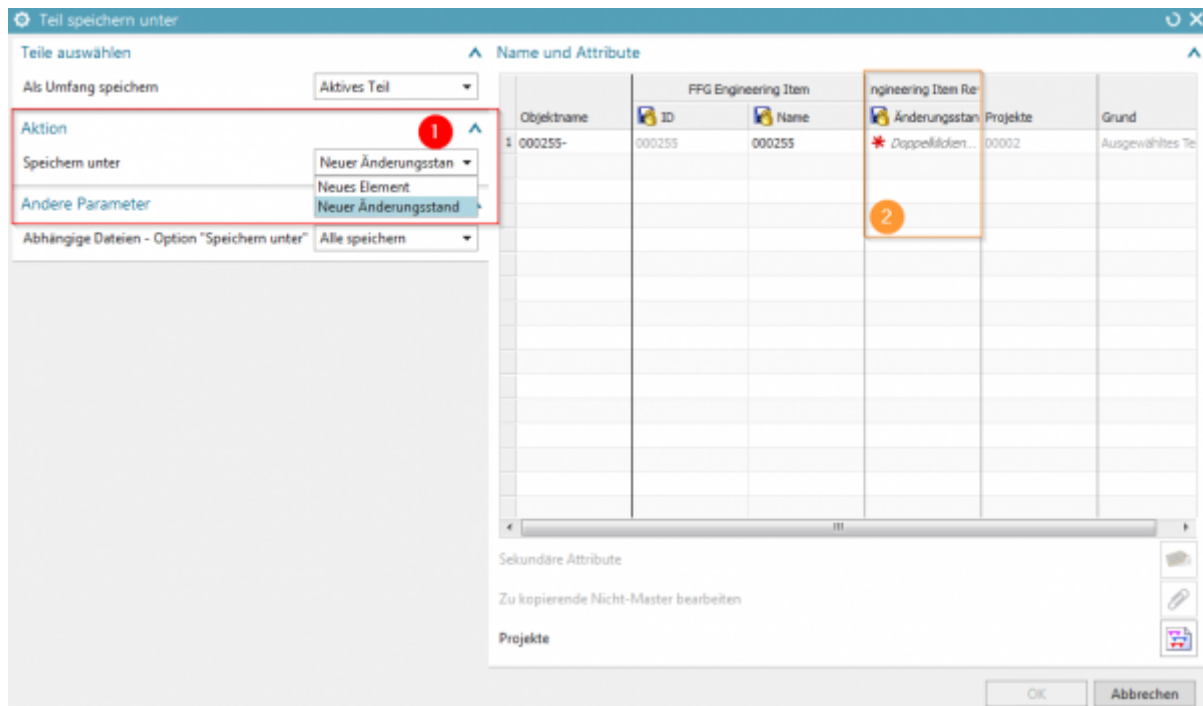
If you have already opened NX, you can open a dataset from Teamcenter via **File → Open**. When you select the item, the UGMaster is always loaded - if you want to load the corresponding UGPart, you have to select it explicitly. In the Open dialog, you can open both the **Simple Search** and the **Advanced Search**. These search functions will be discussed in the rest of this training document.



Double-click on the item, item revision or the corresponding dataset to open it in NX - alternatively you can confirm this with **OK** or open it with the right mouse button.

4.1.3 Revision of parts and "Save as"

- The **revision** of **Item revisions** and **Save as** is done with:
File menu → Save → Save as...
- Create as **new change state** (revision)
- Save as **new element** creates a new part under a new part number
- Save as Alt-Rep creates a new dataset with alt. Geometry presentation under the current part / revision master.



1 Action "Save as" - New element / New change status

2 A double click assigns a new change state number to the item revision.

- If an item revision contains dependent files in addition to the **Master part**, the documents to be transferred can be selected, provided this is defined in the preferences.

4.1.4 Teamcenter Navigator

- The Teamcenter Navigator shows the current folder structure of the user
- The columns can be adjusted as required

☐ Teamcenter Navigator

Ansichtsstil

Struktur

Objekt	Nummer	Änderu...	Beschreibung	Typ	Ausgec...
Teamcenter					
Home			tcadm	Persönliche A...	
Newstuff			tcadm	Newstuff Fol...	
X.0003.0000	X.0003.0000			FFG Engineeri...	
X.0003.0000...	X.0003.0000	00		FFG Engineeri...	
X.0003.0...	X.0003.0000	00		Model	
X.0003.0001 TR...	X.0003.0001			FFG Engineeri...	
X.0003.0001...	X.0003.0001	00		FFG Engineeri...	
X.0003.0...	X.0003.0001	00		Model	
X.0003.0...	X.0003.0001	00	X.0003.0001-00	Drawing	
XD.0000.0001	XD.0000.0001			FFG Document	
Kürzlich					
Meine Suche					
Projekte					
Zwischenablage					











When you click on an item, item revision or dataset with the RMT, the following file operations are available:

☐ Teamcenter Navigator

Ansichtsstil

Objekt	Nummer	Änderu...	Beschreibung	Typ
Teamcenter				
Home			jdoe	Persönliche A...
Mailbox			jdoe	Mail-Ordner
My Saved Searches				Ordner
Newstuff			jdoe	Ordner "Neue...
Use Cases				Ordner
X.0000.0003 PIN BOLZEN				FFG Engineeri...
X.0000.0003-00 PIN BOLZEN				FFG Engineeri...
X.0000.0003-01 PIN BOLZEN				FFG Engineeri...
X.0000.0003-01				Model
X.0000.0003-01			0003-00	Drawing
X.0000.0004 HOLDING BLOCK HALTEK				FFG Engineeri...
X.0000.0004-00 HOLDING BLOCK H				FFG Engineeri...
X.0000.0004-01 HOLDING BLOCK H				FFG Engineeri...
X.0000.0004-02 HOLDING BLOCK H				FFG Engineeri...
X.0000.3646 MACHINING CENTER				FFG Engineeri...

Aktualisieren

Öffnen 1

Ausschneiden 2

Kopieren

Komponente hinzufügen 3

Projekte... 4

Anforderungsverknüpfungen anzeigen

1 Open a part file..

2 Cut and Copy has the same effect as in the "My Teamcenter" environment

3 Opens the "Add Component" dialog

4 Adds the object to a project

4.1.5 Teamcenter-Navigator Suche

☐ Teamcenter Navigator

Ansichtsstil Struktur

Objekt	Nummer	Änderu...	Beschreibung	Typ	Ausgeg...
Teamcenter					
Home			tcadm	Persönliche A...	
Newstuff			tcadm	Newstuff Fol...	
X.0003.0000	X.0003.0000			FFG Engineeri...	
X.0003.0000...	X.0003.0000	00		FFG Engineeri...	
X.0003.0...	X.0003.0000	00		Model	
X.0003.0001 TR...	X.0003.0001			FFG Engineeri...	
X.0003.0001...	X.0003.0001	00		FFG Engineeri...	
X.0003.0...	X.0003.0001	00		Model	
X.0003.0...	X.0003.0001	00	X.0003.0001-00	Drawing	
XD.0000.0001	XD.0000.0001			FFG Document	
Kürzlich					

Suchen 1

X.000*

Erweiterte Suche... 2

Filter durchsuchen

Detailebene Vollständig

Änderungsstand Alle

Typ Alle

Ladeoptionen für Baugruppen 3

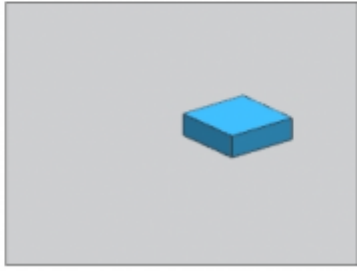
☐ Nur Struktur laden

Option Teilweise geladen

Kontext Änderungsstandregel/Konfiguration

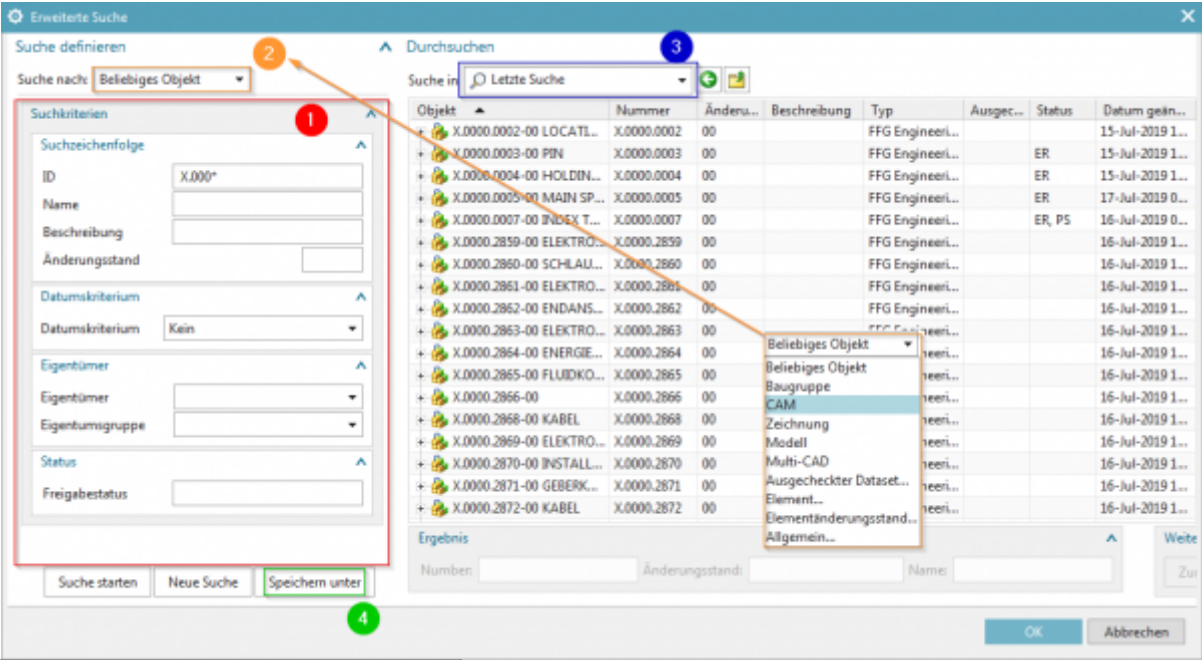
Latest Working Dialogfenster "Ladeoptionen"

Vorschau



- 1 Search with wildcards like in the Teamcenter environment
- 2 Advanced search
- 3 Loading options for assemblies

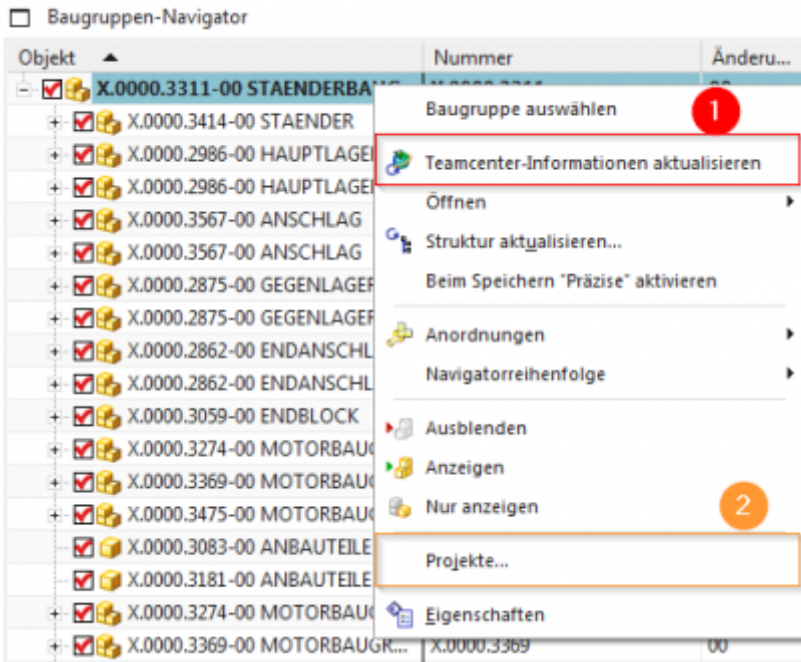
4.1.6 Teamcenter Navigator Advanced Search



- 1 Search criteria
- 2 Search for:
- 3 Display last search
- 4 ...searches saved in "My Teamcenter"

4.1.7 Teamcenter function in the assembly navigator

- Keep all information from Teamcenter up-to-date



- 1 Update information from Teamcenter
- 2 Adds the object to a project

4.2. exercises - working with NX

4.2.1 Exercise 1 - Creating an item from Teamcenter

Create a new part in Teamcenter as usual:

Select **“File→New→Item “** and then select the type **FFG Engineering Item**.

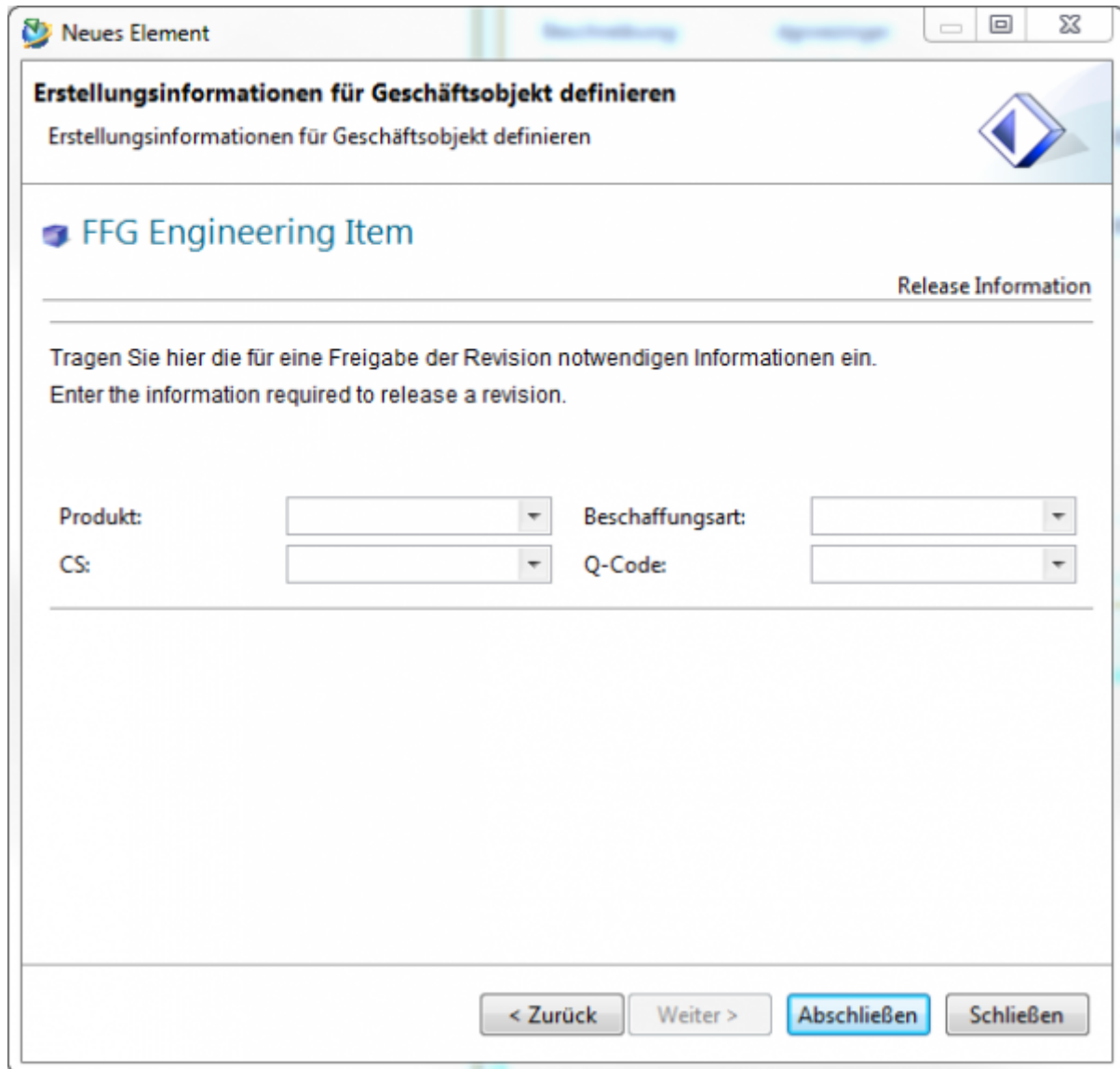
Assign an item ID and assign a (provisional) name.

Select a name from the naming catalog.

Unit of measurement = Field empty (pieces)

Press **“Next “**

Enter the mandatory attributes relevant for a release.

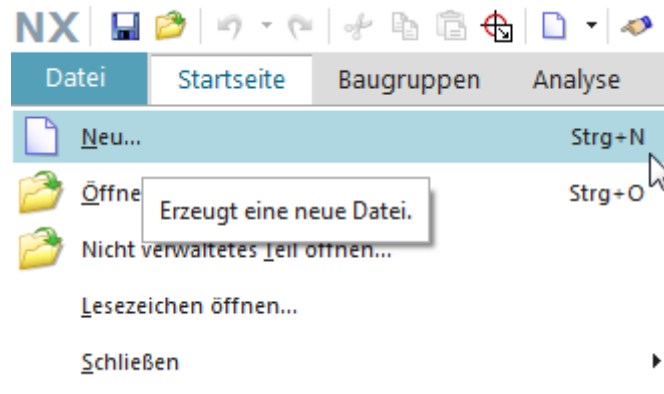


Press “Finish”. Then select the newly created item or item revision and start NX via  in the menu bar. As soon as you save the part file in NX, the dataset (UGMaster) is created under the Revision item.

4.2.2 Exercise 2 - Create Items from NX

Before you start working in NX, please first load the role “FFG Standard” via the sidebar .

- Creating a new item in Teamcenter is done in NX as follows:



1. Create a new record via **File menu → New (Ctrl+N)**

- The creation of a new item as master part is visible as a relationship “*master*” and contains the model.
- The creation of a new non-master part is visible as relationship “*specification*” and contains the DrawingPart.

Neu

FFG Model FFG Drawing

Vorlagen

Einheiten mm

Name	Typ	Einheiten	Beziehung	Eigentümer	Elementtyp
FFG - nx120_mag_model	Konstruktion	mm	master	infodba (d...	FFG Engineerin...
Leer/ohne Vorlage	Konstruktion	mm	Kein	Kein	Kein
Leer/ohne Vorlage	Baugruppen	mm	Kein	Kein	Kein

Keine Vorschau möglich

Name und Attribute

Name	Wert
1 ID	* Doppelklicken Sie, um die Zuweisung durch...
2 Änderungsstand	* Doppelklicken Sie, um die Zuweisung durch...
3 Name	* Doppelklicken Sie, um die Zuweisung durch...
4 ffg4materialType	HALB

Sekundäre Attribute

Andere Parameter

Alternative IDs

Projekte

Ordner

:Newstuff

OK Abbrechen

Durch einen Doppelklick in die mit einem Stern markierten Felder werden zur Erstellung benötigte Pflichtattribute automatisch ausgefüllt.

Exercise:



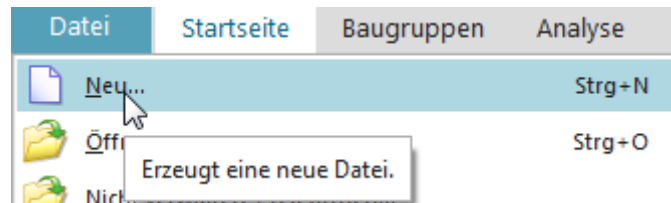
1. create a UGMaster with the corresponding item in NX, create a geometry and save it back to Teamcenter
2. check the structure of your created item in Teamcenter [Item, Item Revision, Dataset]
3. enter all metadata required for the approval in Teamcenter.

4.2.3 Exercise 3 - Creating a drawing

To create a drawing, you have to create a reference object to your existing UGMaster in Teamcenter - this is called UGPart.

To create a UGPart, you must proceed as follows

File menu → New (Ctrl+N)



Then select the “FFG Drawing” tab and the corresponding seedpart **“FFG-nx120_mag_drawing ”**. The associated attributes are taken over by the Revision item. Confirm this with **OK**.

Neu

FFG Model FFG Drawing

Vorlagen Vorschau

Einheiten mm

Name

- FFG - nx120_mag_drawing
- FFG - nx120_mag_drawing (no MM)
- Leer/ohne Vorlage

Keine Vorschau möglich

Name und Attribute

Name	Wert
1 ID	X.0004.0527
2 Name	Plate
3 Materialtyp	HALB

Sekundäre Attribute

Referenzteil

Nummer X.0004.0527 Änderungsstand 01 Name X.0004.0527

OK Abbrechen

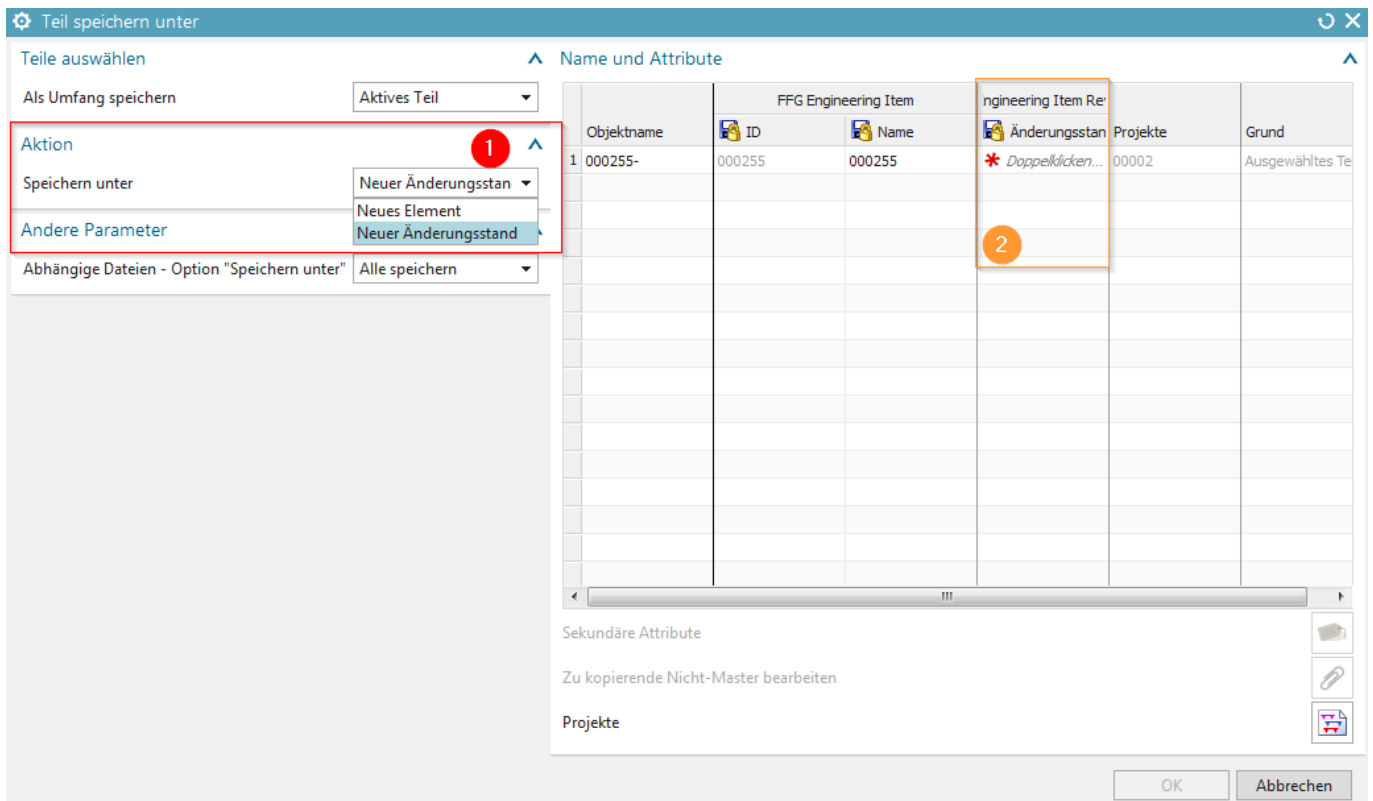
Exercise:



1. create a UPart in NX, place your desired views and detail them
2. check the structure of your created item in Teamcenter [Item, Item Revision, Dataset]
3. release the Item Revision you have created! [Engineering Release]
4. PDF, JT and TIFF should be created as neutral formats.
5. check the structure of your created item in Teamcenter [Item, Item Revision, Dataset]

4.2.4 Exercise 4 - Revise and save parts

- The revision of **master parts** is done with: **File menu → Save → Save as...**
- Create as new change status (revision)
- Save as new element creates a new part under a new part number



1. Action "Save as" - New element / New change status
2. A double click will assign a new revision number to the Revision item.

- If an item revision contains dependent files in addition to the **Master part**, the documents to be transferred can be selected if this is defined in the preferences.

Exercise:



1. create a “new change status” of your released item in NX
2. check the structure of your revised item in Teamcenter [Item, Item Revision, Dataset]
3. execute “Save as
4. check the structure of your revised item in Teamcenter [Item, Item Revision, Dataset].

4.2.5 Exercise 5 - Navigating in Teamcenter Navigator

- The Teamcenter Navigator shows the current folder structure of the user
- The columns can be adjusted as required

☐ Teamcenter Navigator

Ansichtsstil

Struktur

Objekt	Nummer	Änderu...	Beschreibung	Typ	Ausgeg...
Teamcenter					
Home			tcadm	Persönliche A...	
Newstuff			tcadm	Newstuff Fol...	
X.0003.0000	X.0003.0000			FFG Engineeri...	
X.0003.0000...	X.0003.0000	00		FFG Engineeri...	
X.0003.0...	X.0003.0000	00		Model	
X.0003.0001 TR...	X.0003.0001			FFG Engineeri...	
X.0003.0001...	X.0003.0001	00		FFG Engineeri...	
X.0003.0...	X.0003.0001	00		Model	
X.0003.0...	X.0003.0001	00	X.0003.0001-00	Drawing	
XD.0000.0001	XD.0000.0001			FFG Document	
Kürzlich					
Meine Suche					
Projekte					
Zwischenablage					



When you click on an item, item revision or dataset with the RMT, the following file operations are available:

☐ Teamcenter Navigator

Ansichtsstil

Objekt	Nummer	Änderu...	Beschreibung	Typ
Teamcenter				
Home			jdoe	Persönliche A...
Mailbox			jdoe	Mail-Ordner
My Saved Searches				Ordner
Newstuff			jdoe	Ordner "Neue...
Use Cases				Ordner
X.0000.0003 PIN BOLZEN				FFG Engineeri...
X.0000.0003-00 PIN BOLZEN				FFG Engineeri...
X.0000.0003-01 PIN BOLZEN				FFG Engineeri...
X.0000.0003-01				Model
X.0000.0003-01			0003-00	Drawing
X.0000.0004 HOLDING BLOCK HALTEK				FFG Engineeri...
X.0000.0004-00 HOLDING BLOCK H				FFG Engineeri...
X.0000.0004-01 HOLDING BLOCK H				FFG Engineeri...
X.0000.0004-02 HOLDING BLOCK H				FFG Engineeri...
X.0000.3646 MACHINING CENTER				FFG Engineeri...

Aktualisieren

Öffnen

1

Ausschneiden

2

Kopieren

Komponente hinzufügen

3

Projekte...

4

Anforderungsverknüpfungen anzeigen

1 Open a part file.

2 Cut and Copy has the same effect as in the "My Teamcenter" environment.

3 Opens the "Add component" dialog

4 Adds the object to a project

4.2.6 Exercise 6 - Searching for objects in Teamcenter

☐ Teamcenter Navigator

Ansichtsstil Struktur

Objekt	Nummer	Änderu...	Beschreibung	Typ	Ausgeg...
Teamcenter					
Home			tcadm	Persönliche A...	
Newstuff			tcadm	Newstuff Fol...	
X.0003.0000	X.0003.0000			FFG Engineeri...	
X.0003.0000...	X.0003.0000	00		FFG Engineeri...	
X.0003.0...	X.0003.0000	00		Model	
X.0003.0001 TR...	X.0003.0001			FFG Engineeri...	
X.0003.0001...	X.0003.0001	00		FFG Engineeri...	
X.0003.0...	X.0003.0001	00		Model	
X.0003.0...	X.0003.0001	00	X.0003.0001-00	Drawing	
XD.0000.0001	XD.0000.0001			FFG Document	
Kürzlich					

Suchen 1

X.000*

Erweiterte Suche... 2

Filter durchsuchen

Detailebene Vollständig

Änderungsstand Alle

Typ Alle

Ladeoptionen für Baugruppen 3

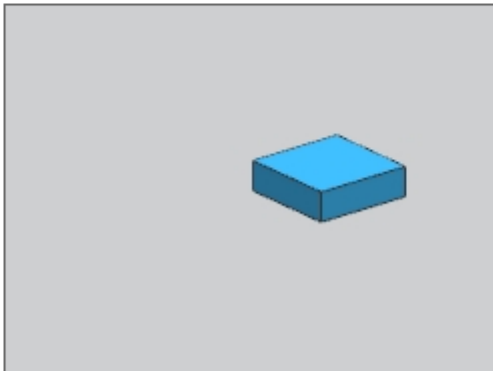
☐ Nur Struktur laden

Option Teilweise geladen

Kontext Änderungsstandregel/Konfiguration

Latest Working Dialogfenster "Ladeoptionen"

Vorschau



1. Search with wildcards like in the Teamcenter environment
2. Advanced search
3. Loading options for modules

4.2.7 Exercise 7 - Advanced Search of Objects in Teamcenter

Erweiterte Suche

Suche definieren

Suche nach: Beliebiges Objekt

Suchkriterien

Suchzeichenfolge

ID: X.000*

Name:

Beschreibung:

Änderungsstand:

Datumskriterium

Datumskriterium: Kein

Eigentümer

Eigentümer:

Eigentumsgruppe

Eigentumsgruppe:

Status

Freigabestatus:

Durchsuchen

Suche in: Letzte Suche

Objekt	Nummer	Änderu...	Beschreibung	Typ	Ausgec...	Status	Datum geän...
X.0000.0002-00 LOCATI...	X.0000.0002	00		FFG Engineeri...			15-Jul-2019 1...
X.0000.0003-00 PIN	X.0000.0003	00		FFG Engineeri...		ER	15-Jul-2019 1...
X.0000.0004-00 HOLDIN...	X.0000.0004	00		FFG Engineeri...		ER	15-Jul-2019 1...
X.0000.0005-00 MAIN SP...	X.0000.0005	00		FFG Engineeri...		ER	17-Jul-2019 0...
X.0000.0007-00 INDEX T...	X.0000.0007	00		FFG Engineeri...		ER, PS	16-Jul-2019 0...
X.0000.2859-00 ELEKTRO...	X.0000.2859	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2860-00 SCHLAU...	X.0000.2860	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2861-00 ELEKTRO...	X.0000.2861	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2862-00 ENDANS...	X.0000.2862	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2863-00 ELEKTRO...	X.0000.2863	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2864-00 ENERGIE...	X.0000.2864	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2865-00 FLUIDKO...	X.0000.2865	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2866-00	X.0000.2866	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2868-00 KABEL	X.0000.2868	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2869-00 ELEKTRO...	X.0000.2869	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2870-00 INSTALL...	X.0000.2870	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2871-00 GEBERK...	X.0000.2871	00		FFG Engineeri...			16-Jul-2019 1...
X.0000.2872-00 KABEL	X.0000.2872	00		FFG Engineeri...			16-Jul-2019 1...

Ergebnis

Number: Änderungsstand: Name:

Suche starten Neue Suche Speichern unter

OK Abbrechen

1. Search criteria
2. Search for:
3. Display last search
4. ...searches saved in "My Teamcenter"

Exercise:

1. create a new item.

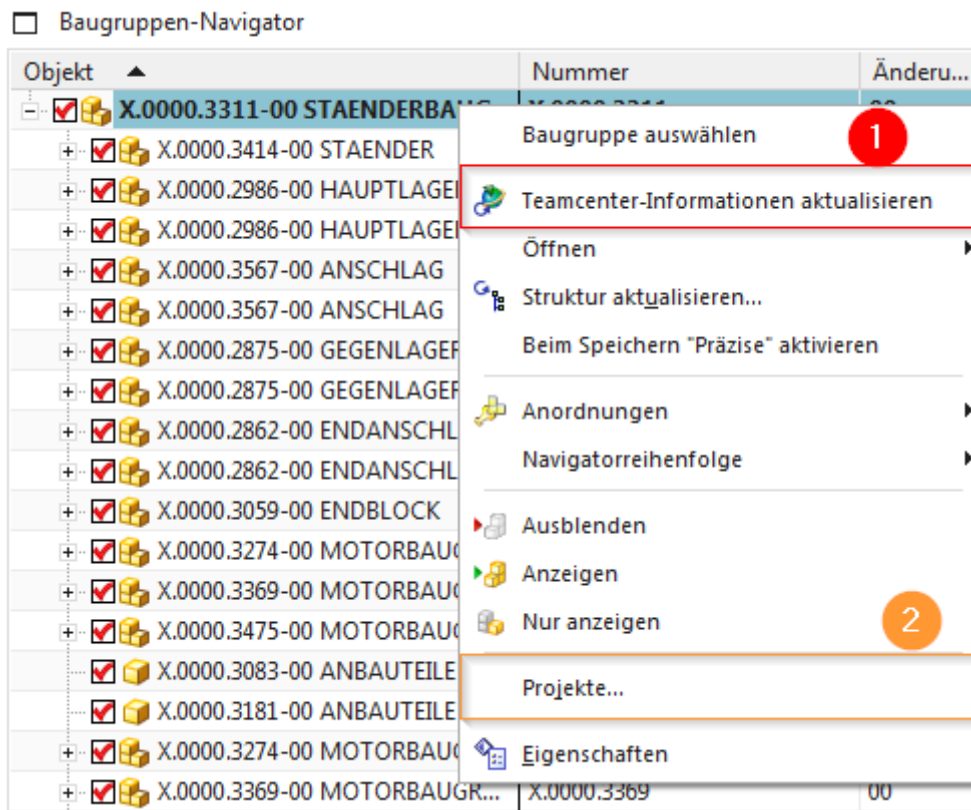


2. use the different search methods to find the components of your seat neighbour and of you.

3. insert the components into the UGMaster you have created

4. check the structure of your created item and the created structure via the Structure Manager in Teamcenter. [Item, Item Revision, Dataset].

4.2.8 Exercise 8 - Teamcenter functions in the Assembly Navigator



1. Update information from Teamcenter
2. Adds the object to a project

Exercise:

1. open the assembly you have created
2. use the Structure Manager to change a component to GEOMETRY = NO.
3. check the structure setup in NX - then update the properties and the structure - then check it again
4. select a component in NX and set the component as "reference" via the properties
5. select a component in NX and set the component as "non-geometric" in the properties
6. check the structure using the Structure Manager in Teamcenter



4.2.10 Exercise 10 - NX Tools - Loading the Drawing Frame

When adding the drawing frame and sheet format, proceed as follows:

1. Overview - Frame functions	
	  
	Zeichnungsrahmen laden Teamcenter-Informationen aktualisieren Abbild aktualisieren
2. Load drawing frame	



Zeichnungrahmen
laden

3. Drawing frame on sheet 1

4. Select the desired frame

5. Selecting the drawing format



Info:

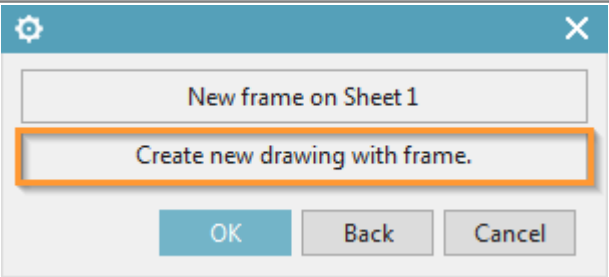
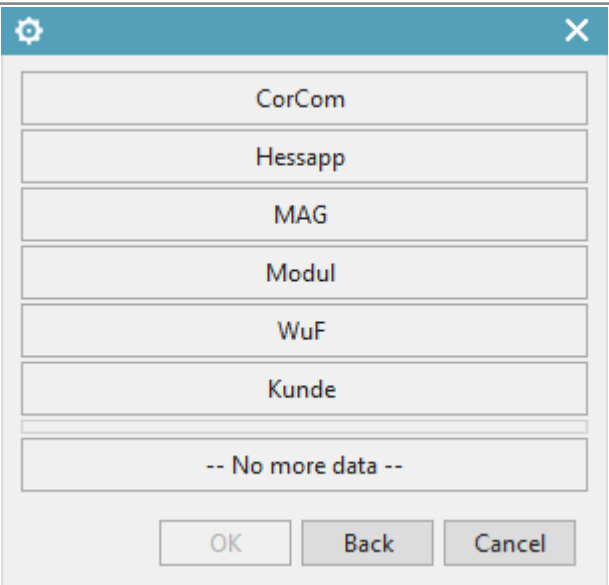
In order to display all attribute values in the drawing frame, the UGPart must be saved to Teamcenter and the drawing header must be updated with the "Update Image" function.



Exercise:

1. open the UGPart of the item revision that you have revised
2. insert a drawing frame
3. update the drawing header - check the drawing header
4. save the UGPart to Teamcenter
5. update the drawing header - check the drawing header

**4.2.11 Exercise 11 - NX Tools - Creating a Drawing Sheet**

1. Overview - Frame functions	   Zeichnungrahmen laden Teamcenter-Informationen aktualisieren Abbild aktualisieren
2. Load drawing frame	 Zeichnungrahmen laden
3. Drawing frame on sheet 1	
4. Select the desired frame	
5. Selecting the drawing format	

 
DIN A0 TC
DIN A1 TC
DIN A2 TC
DIN A3 TC
-- No more data --
OK Back Cancel

6. Accept naming of sheet n

 
Sheet 2
OK Back Cancel

Aufgabe:

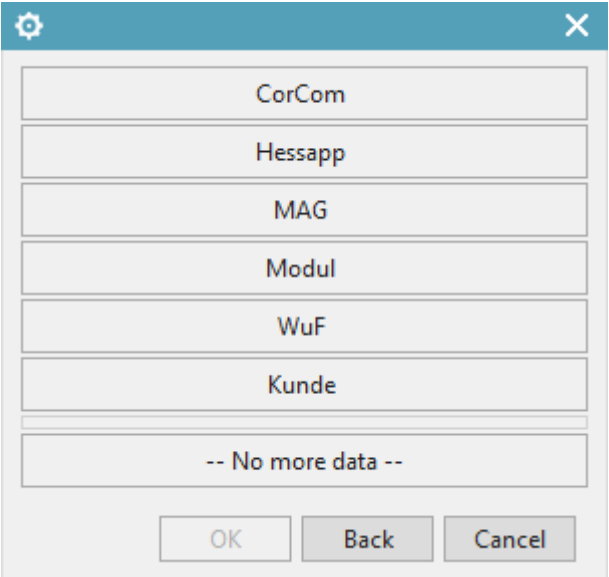


1. create two new drawing sheets with different drawing frames
2. change attributes in Teamcenter and check the properties in NX before updating
3. update the attributes.

4.2.12 Exercise 12 - NX Tools - Change drawing frame / format on existing drawing

1. Overview - Frame functions
  
Zeichnungrahmen laden Teamcenter-Informationen aktualisieren Abbild aktualisieren
2. Load drawing frame

Zeichnungrahmen laden
3. Drawing frame on Sheet 1
 
New frame on Sheet 1
Create new drawing with frame.
OK Back Cancel
4. Select the desired frame



CorCom

Hessapp

MAG

Modul

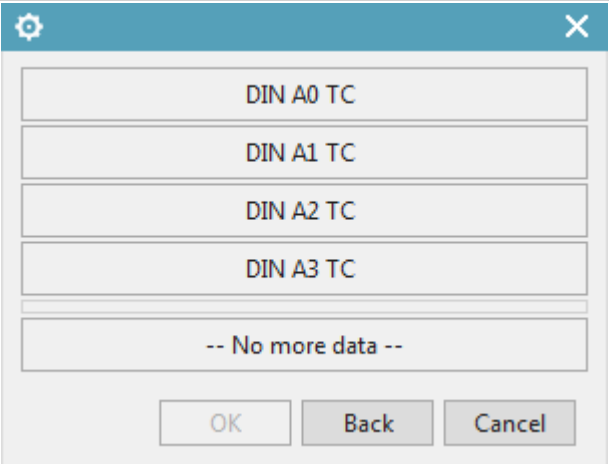
WuF

Kunde

-- No more data --

OK Back Cancel

5. Selecting the drawing format



DIN A0 TC

DIN A1 TC

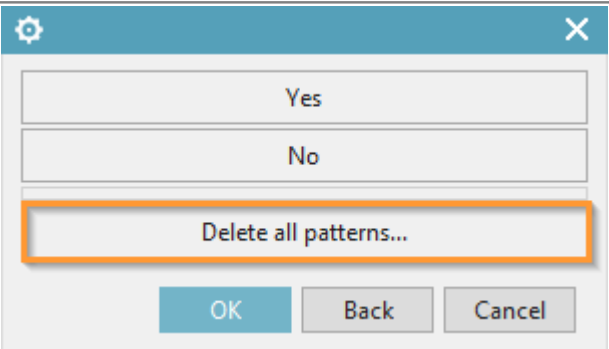
DIN A2 TC

DIN A3 TC

-- No more data --

OK Back Cancel

6. Delete all Patterns



Yes

No

Delete all patterns...

OK Back Cancel

Exercise:



1. change the drawing frame on each drawing sheet so that the individual sheets have different drawing frames
2. save the UGPart
3. release the Revision 01 item [Release after "ER"]
4. create the neutral formats JT, PDF and TIFF

4.2.13 Exercise 13 - NX Tools - Other important functions

 Teamcenter-Informationen aktualisieren	Transfer of metadata from Teamcenter to NX
 Abbild aktualisieren	Manual update of metadata in the title block

Exercise:



1. check out the Revision item in Teamcenter.
2. for example, change the naming and additional naming.
3. check the Revision item into Teamcenter
4. update the Teamcenter information
5. update the title block.

4.2 Working with AutoCAD

4.2.1 Introduction

In this project a simple interface from Teamcenter to AutoCAD was implemented. With this interface AutoCAD files can be opened and edited from Teamcenter and the changes can be saved in Teamcenter again. All PDM functions like search, release etc. are also possible analogous to all other part types (2D/3D design with NX).

It is not possible to create a DWG dataset from Teamcenter. It must be created locally using a corresponding template and then attached to the Revision item by drag & drop. The same can be done with existing AutoCAD drawings, which are located locally or on network drives.

4.2.2 Create item

It is not possible to create an AutoCAD file (or a part with an AutoCAD file) directly from AutoCAD in Teamcenter. The following procedure is available for this:

Create a new part in Teamcenter as usual:

Select **“File → New → Item “** and then select the type  **FFG Engineering Item**.

Assign a **Item ID** and assign a (provisional) name.

Neues Element

Objekterstellungsinformationen

Der Wert sollte einem der folgenden Muster entsprechen (bewegen Sie die Maus, um alle anzuzeigen).

FFG Engineering Item

Allgemein

▼ Elementinformationen (Erforderlich)

ID:

Name*:

Falls Sie eine ID aus dem Namenskatalog wählen, wird der oben eingetragene Name überschrieben.
If you enter an ID from the naming catalog, the chosen name above will be overwritten.

Ben.ID:

Für Mengeneinheit Stück
Unit of Measure each: l

Maßeinheit:

Wert	Beschreibung
1	
11	ABDECKBLECH SHEET METAL COVER
13	ABDECKHAUBE SHEET METAL CAP
15	ABDECKPLATTE COVER PLATE
19	ABDECKRING GUARD RING
23	ABDECKUNG COVER-GUARD
28	ABDICHTUNG SEAL
30	ABFLUSSRINNE TROUGH
33	ABGUSS CASTING
34	ABLAGE DEPOSIT

1 - 50 Werte angezeigt. Für weitere Werte scrollen.

Beziehung

Select a name from the naming catalog.

Neues Element

Objekterstellungsinformationen

 Der Wert sollte einem der folgenden Muster entsprechen (bewegen Sie die Maus, um alle anzuzeigen).

FFG Engineering Item

Allgemein

▼ Elementinformationen (Erforderlich)

ID:

Name*:

Falls Sie eine ID aus dem Namenskatalog wählen, wird der oben eingetragene Name überschrieben.
If you enter an ID from the naming catalog, the chosen name above will be overwritten.

Ben.ID:

Für Mengeneinheit Stück: Feld leer lassen.
Unit of Measure each: leave field empty

Maßeinheit:

Beziehung ☐ Beim Erstellen öffnen

< Zurück Weiter > Abschließen Schließen

Press "Next".

Enter the essential master data.

Neues Element

Erstellungsinformationen für Geschäftsobjekt definieren

Erstellungsinformationen für Geschäftsobjekt definieren

FFG Engineering Item

Release Information

Tragen Sie hier die für eine Freigabe der Revision notwendigen Informationen ein.
Enter the information required to release a revision.

Produkt: 2 Beschaffungsart: X

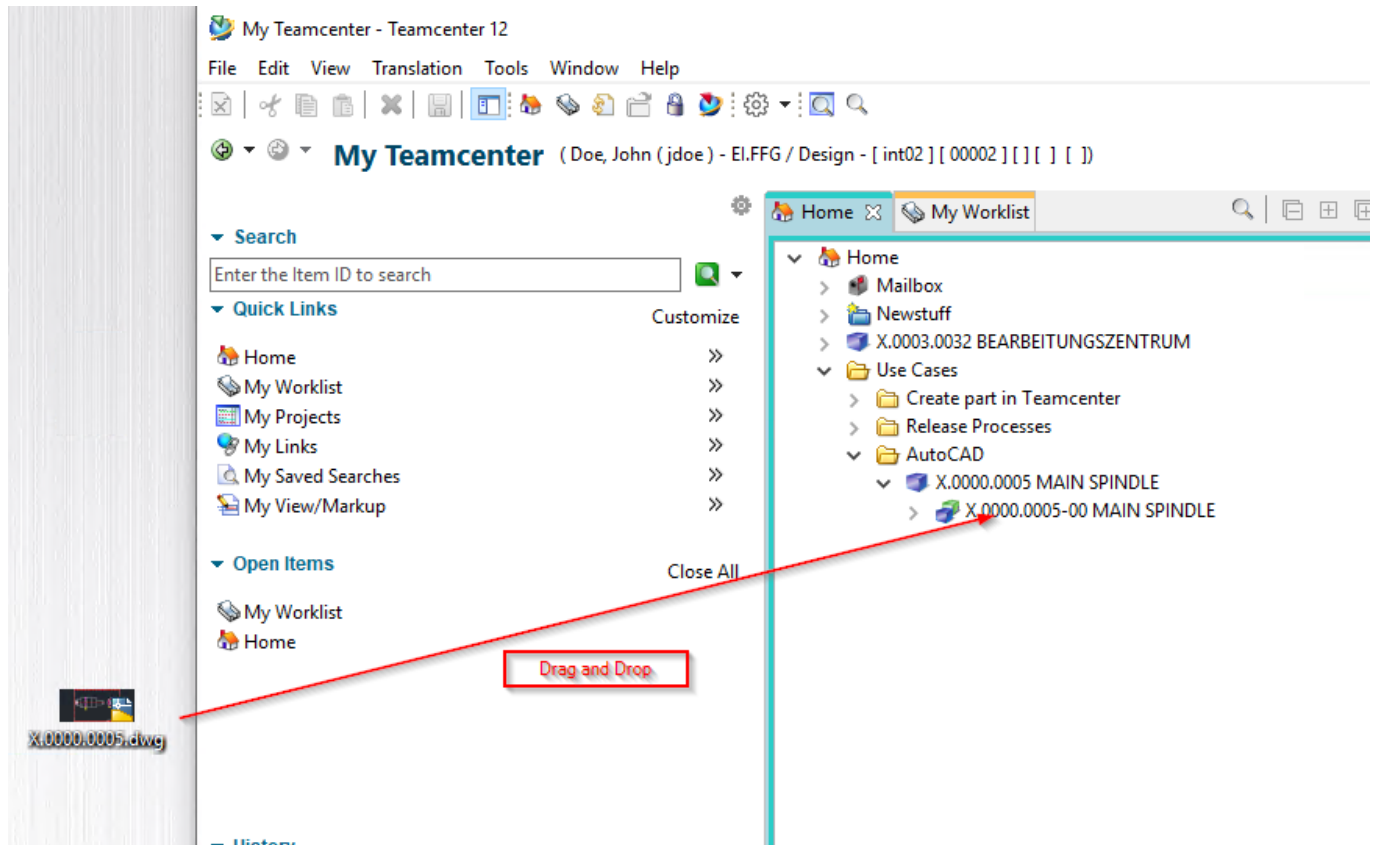
CS: E Q-Code: K

< Zurück Weiter > **Abschließen** Schließen

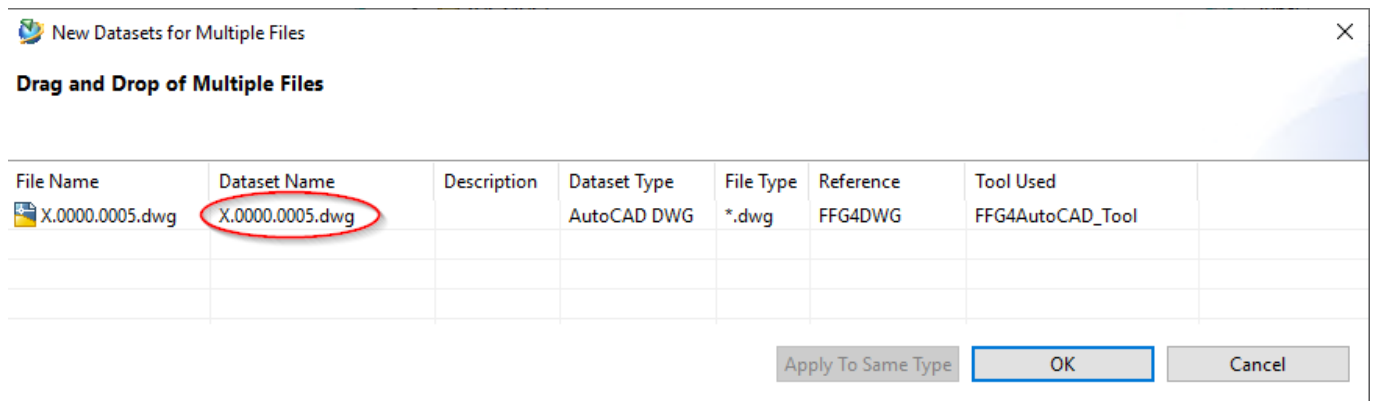
Press "Finish".

4.2.3 Insert dataset in Item Revision

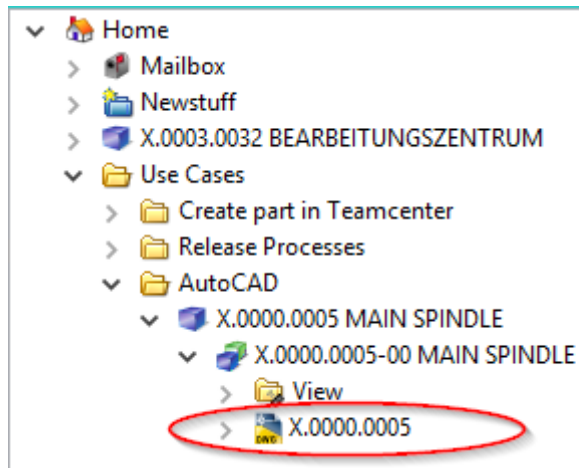
Now take an AutoCAD file located on a network run or locally or create a new file with AutoCAD and drag and drop it via **Drag and Drop** onto the newly created revision in Teamcenter.



The following dialog appears. The dataset name is taken over by the Revision item when you perform the next step.

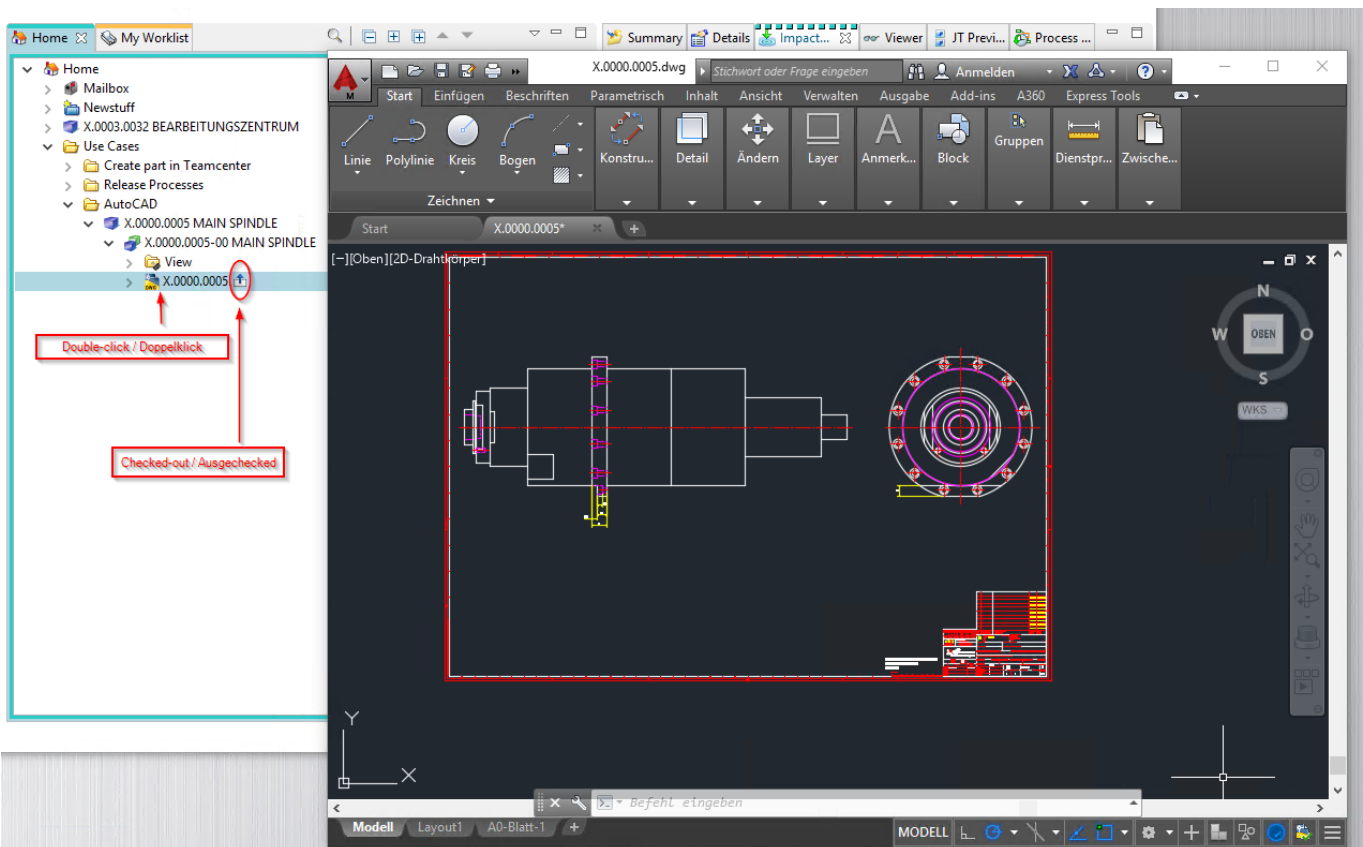


Then press "OK". The file is now attached to the revision as so-called "Dataset" and is thus available in the PLM system.



4.2.4 Open drawings in Teamcenter

To edit the AutoCAD file further, double-click on the dataset. AutoCAD is opened and the file is loaded.

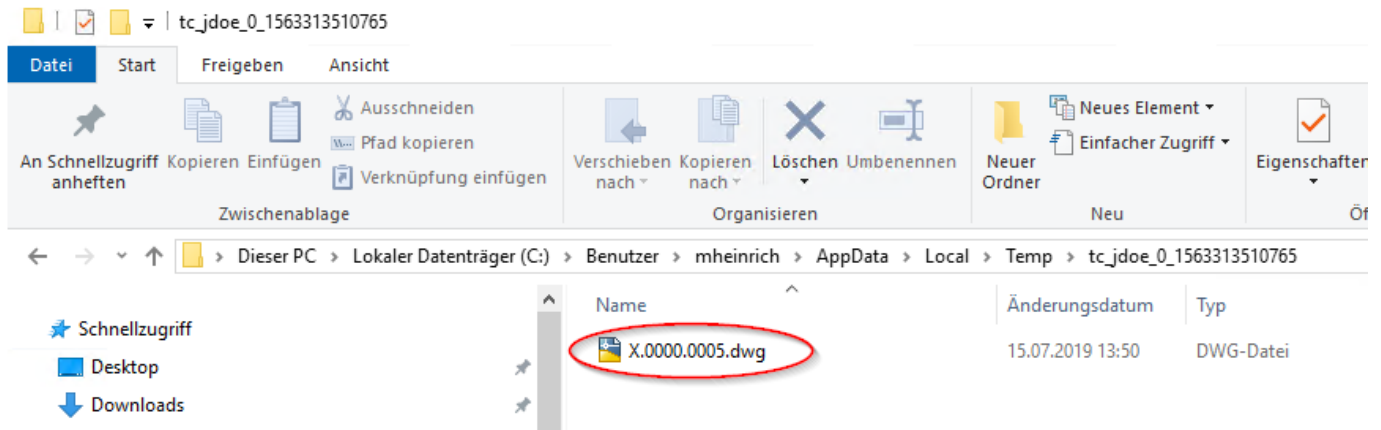


Info:



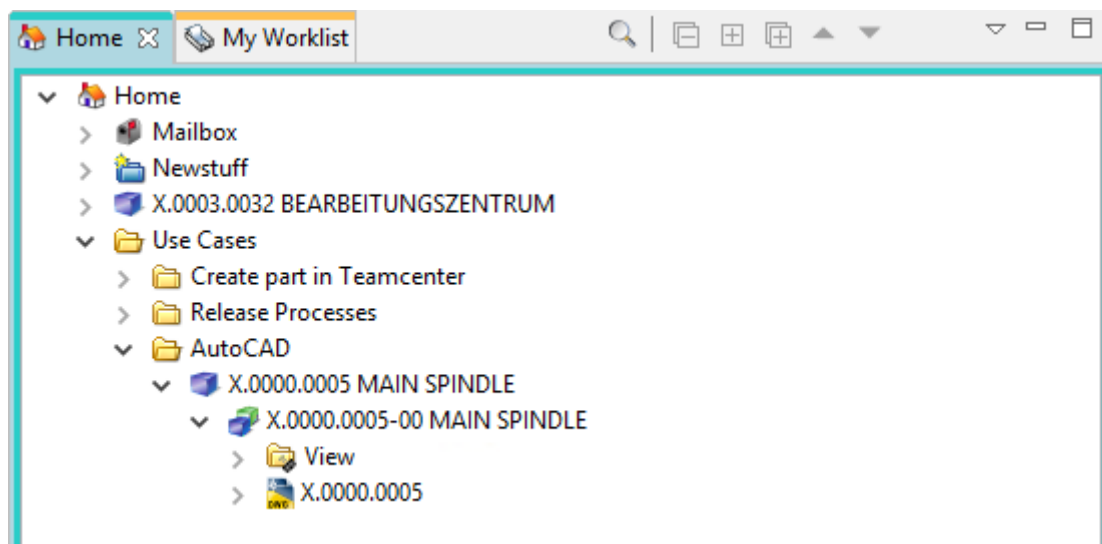
The file is checked out to a local directory in your computer's temporary folder when opened. All changes are saved there as long as the AutoCAD program remains open.

If necessary, make sure that a **“Checked-Out”** symbol is displayed on the dataset.



4.2.5 Save drawings in Teamcenter

After finishing the work, save the file and close AutoCAD. The file is checked in to Teamcenter and the "Checked-Out" symbol disappears. This process may take some time because the file is uploaded to the volume server in the background.



Exercise:

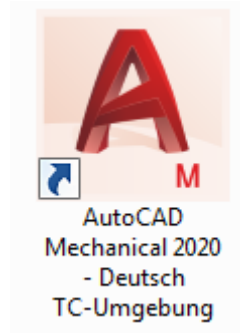


1. Create an item.
2. attach a DWG to the Revision item.
3. open the dataset in AutoCAD
4. make a change in AutoCAD and save it back
5. close it and open the dataset again.

4.2.6 AutoCAD-Integration

An AutoCAD environment was specially configured for the Teamcenter integration. You can start this environment manually by clicking on the following icon on your desktop - or by double-clicking on the

AutoCAD dataset in Teamcenter.

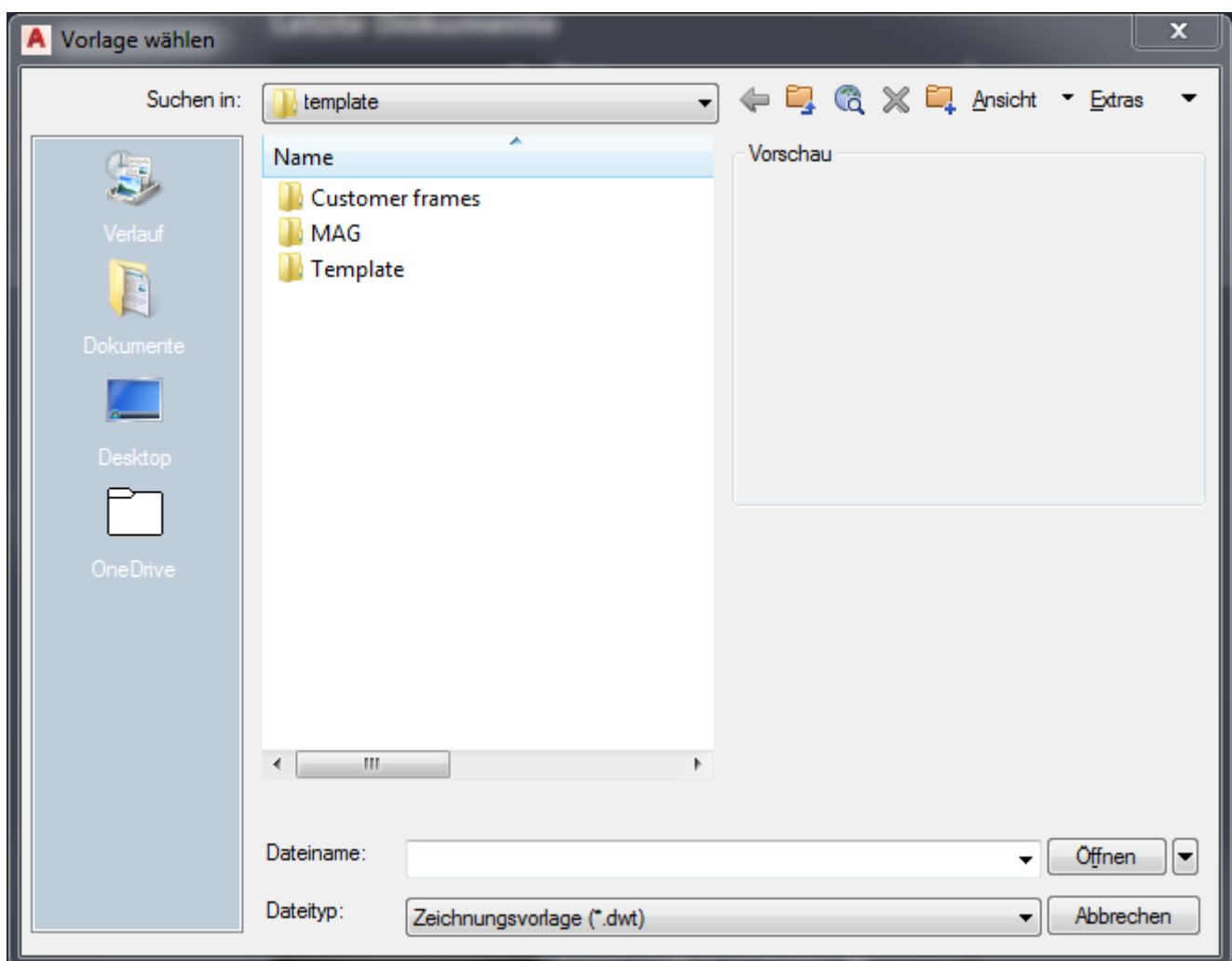


4.2.6.1 Creating an AutoCAD drawing

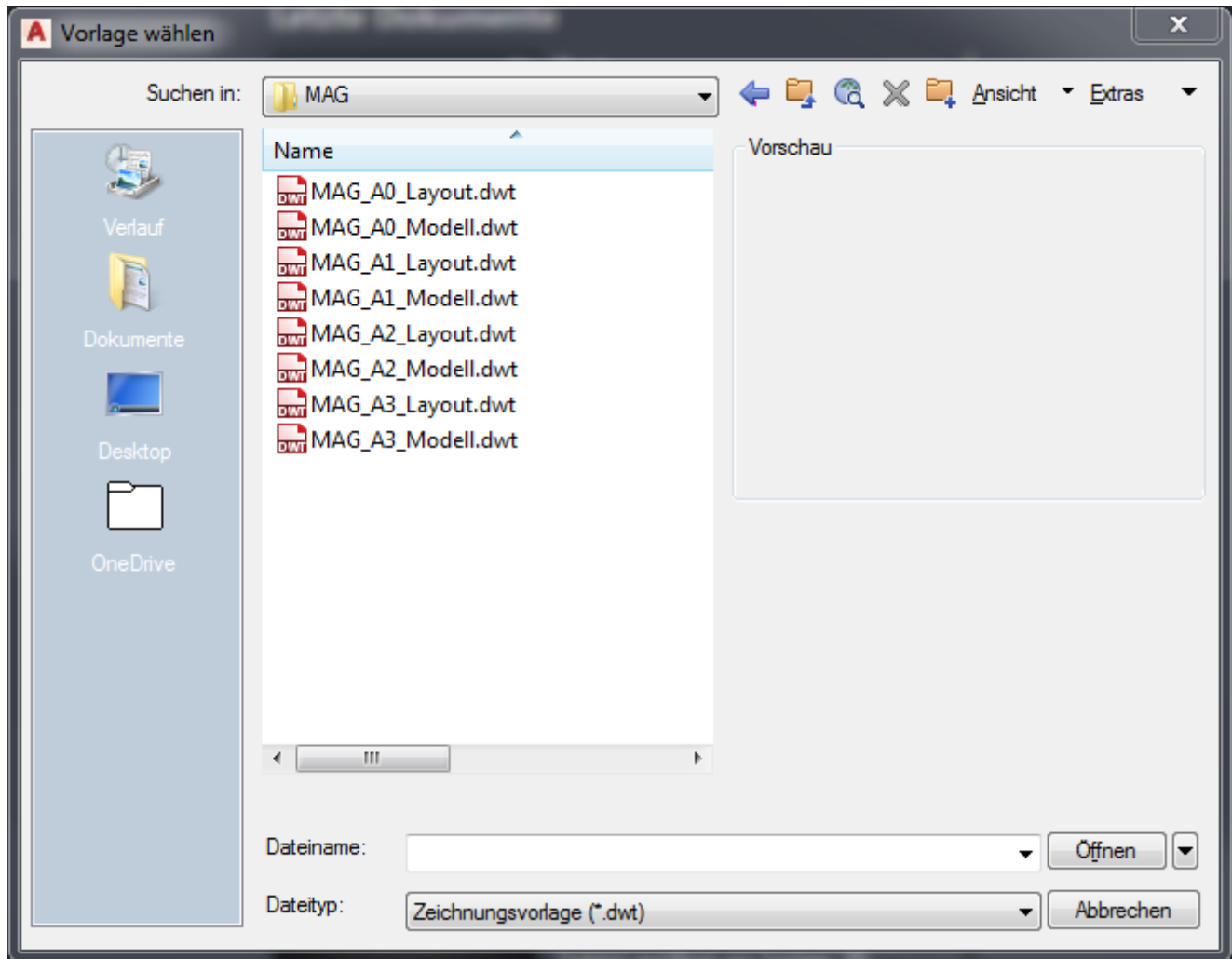
A new AutoCAD drawing is created via the menu *"File" -> "New"*.

Here you are offered 3 template directories:

- MAG frame
- Customer frame
- Templates (standard templates)



Now navigate to the desired directory and select the appropriate template:



Type	Description
Model	Drawing frame is in the model space
Layout	Drawing frame is in the layout area

4.2.6.2 Editing the attributes in the title block

Once you have created the drawing frame, for example in the model space, you can fill the metadata by double-clicking on the drawing header.

Schriftfeld-Einträge ändern

Dokument Nr. / Document

alte Zeichnungs-Nr.

ähnlich/indentisch

ähnlich/indentisch

Benennung D

Description

Zus.beschr. / Add. Descr.

Werkstoff

Freig. Name / Approv.

Freigeg. Dat. / Approv. Date

OK Abbrechen Vorheriger Nächster

This dialog can consist of several dialog pages - these can be controlled via “Previous” or “Next”.

Schriftfeld-Einträge ändern

Projektion US / 3rd Ang.

Projektion ISO / 1st Ang.

Bearb. Name / Drawn Name

CAD_SYST AutoCAD

Werk / Plant

Bearb. Dat. / Drawn Date

von Blatt / of Sheets

Blatt / Sheet-No

Ersatz für / Repl. for

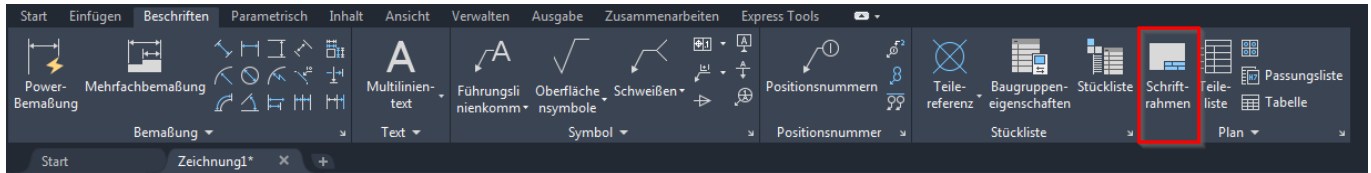
Massstab 1 / Scale 1

OK Abbrechen Vorheriger Nächster

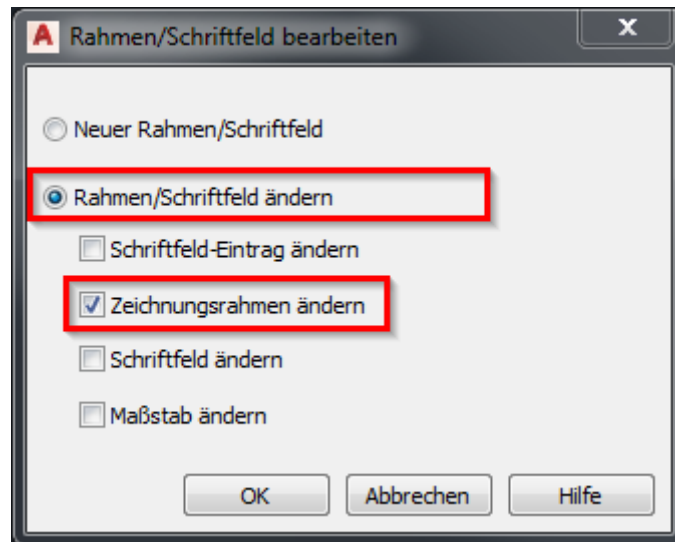
4.2.6.3 Change drawing frame and format

If a drawing already exists, you can change the drawing frame as follows

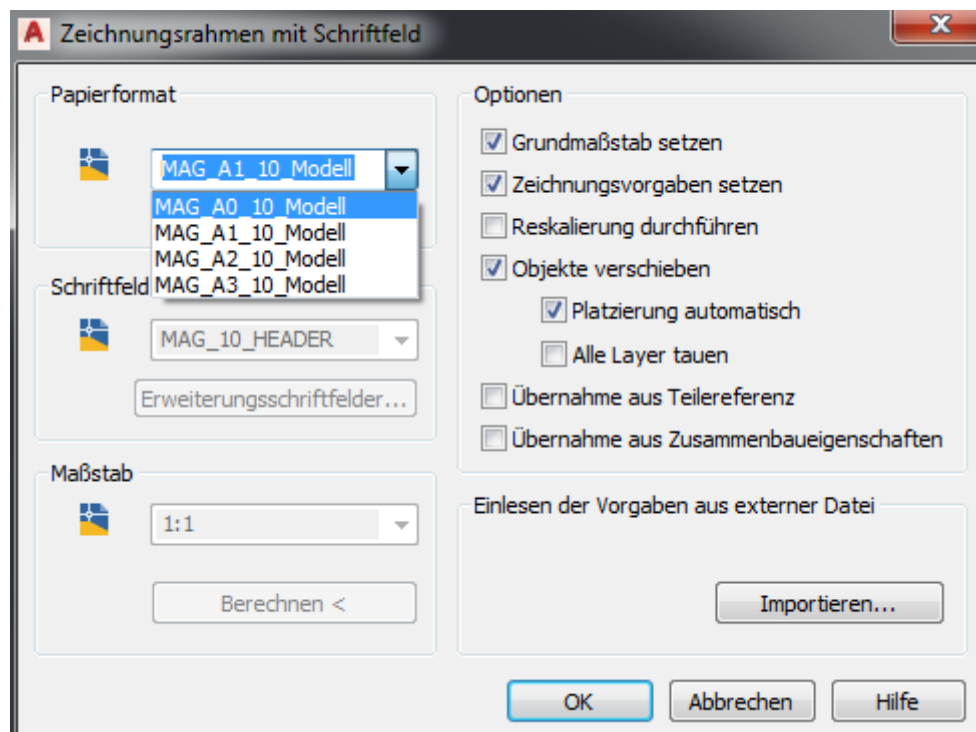
1. First, navigate to the **Lettering** menu and select the **Font frame** function.



2. In the “Edit frame / title block” function, select the options **“Change frame / title block ”** and the corresponding function **“Change drawing frame ”**.

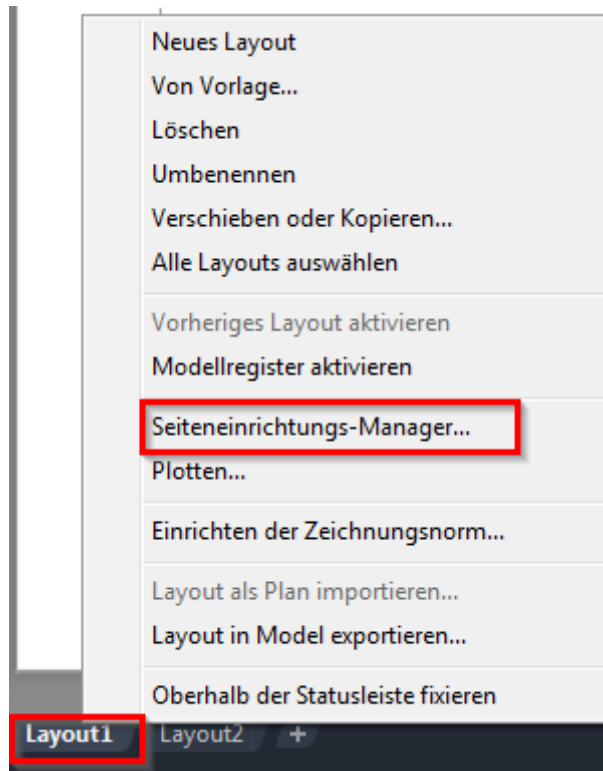


3. Select the desired new format and confirm with OK.

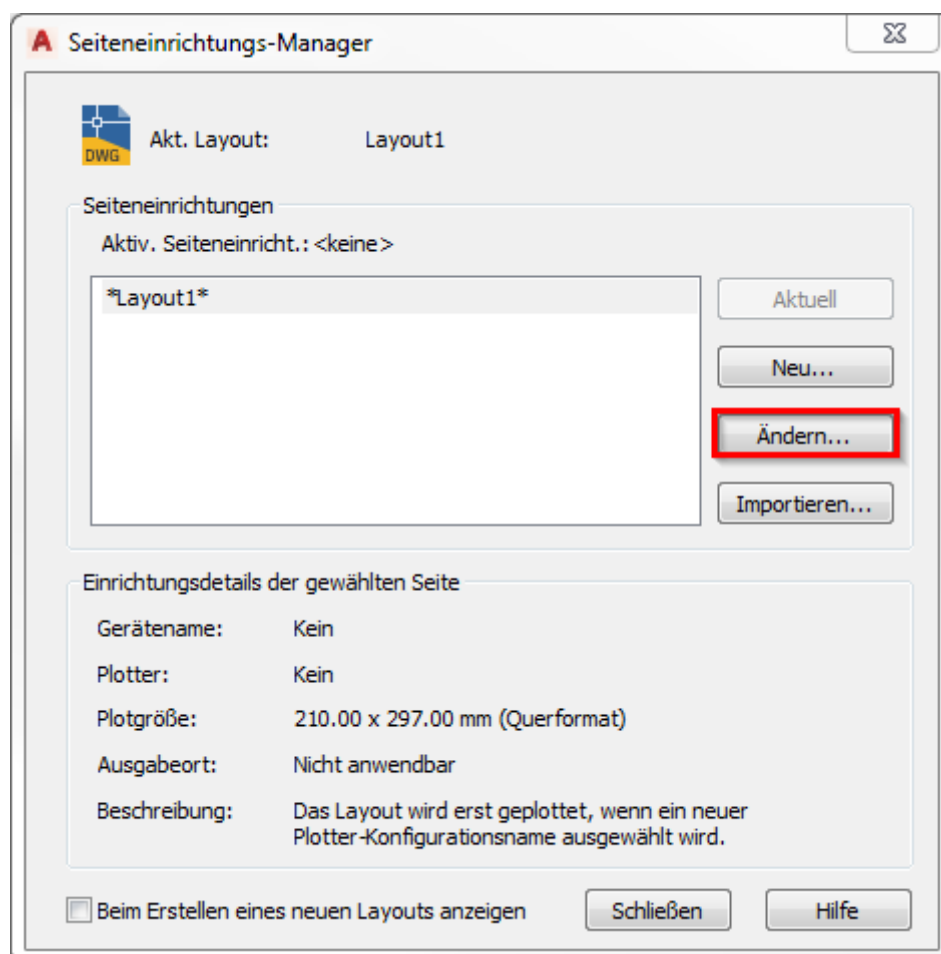


4.2.6.4 Adjusting the page layout

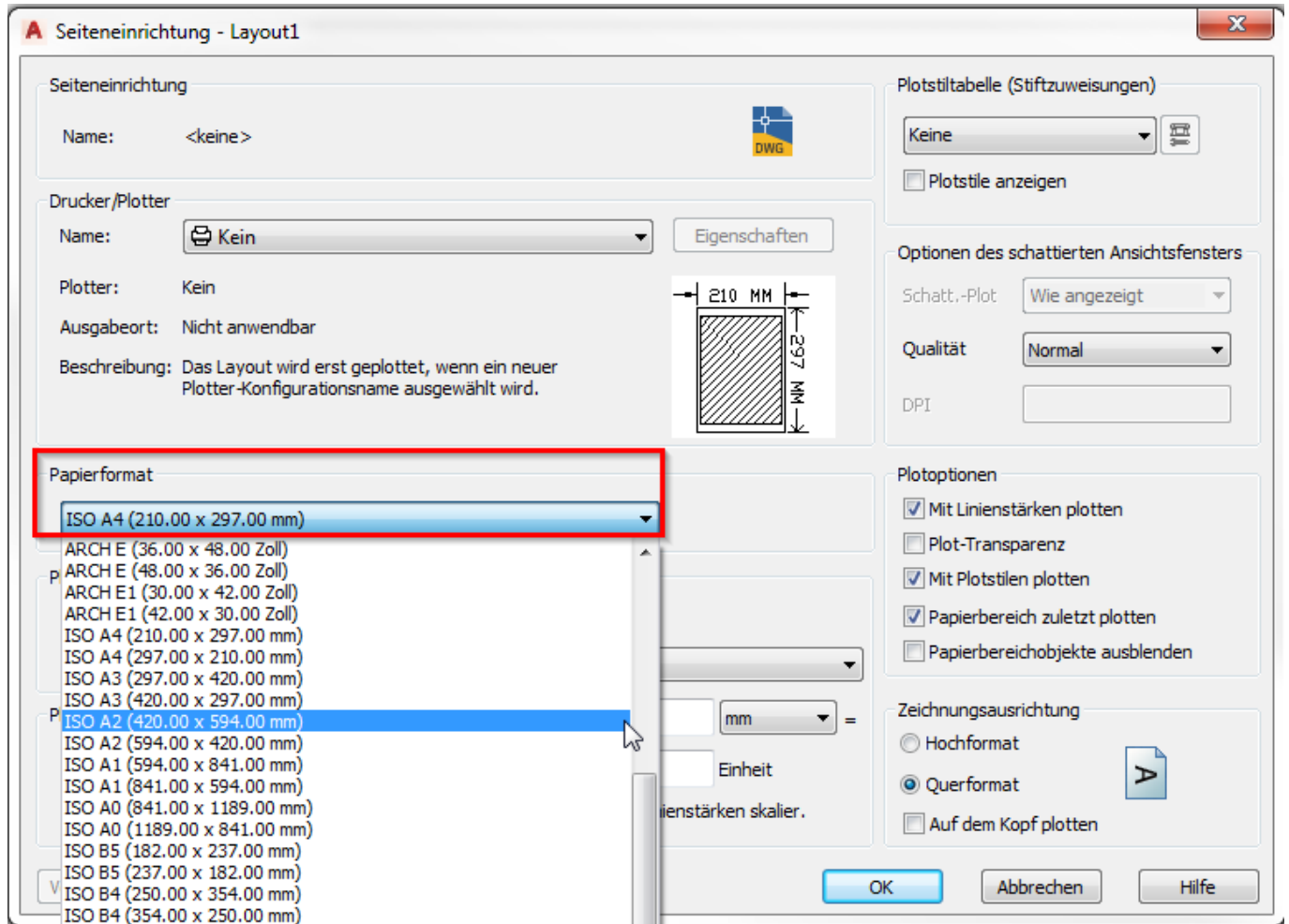
In order to be able to adjust the page layout, you must start the *page setup manager*. You must proceed as follows:



Using the RMT on the Layout tab, you can access the *page setup manager*.



Now select the “Change” function - the following dialog will open:

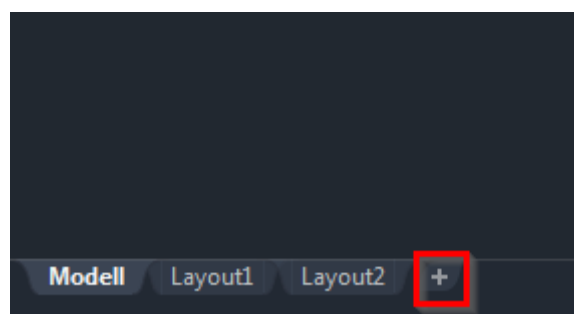


Select the desired format and confirm with OK.

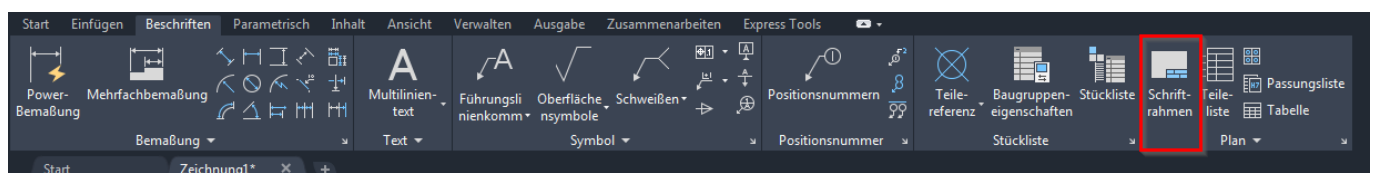
4.2.6.4 Add further layouts

You can add more layouts in AutoCAD by doing the following.

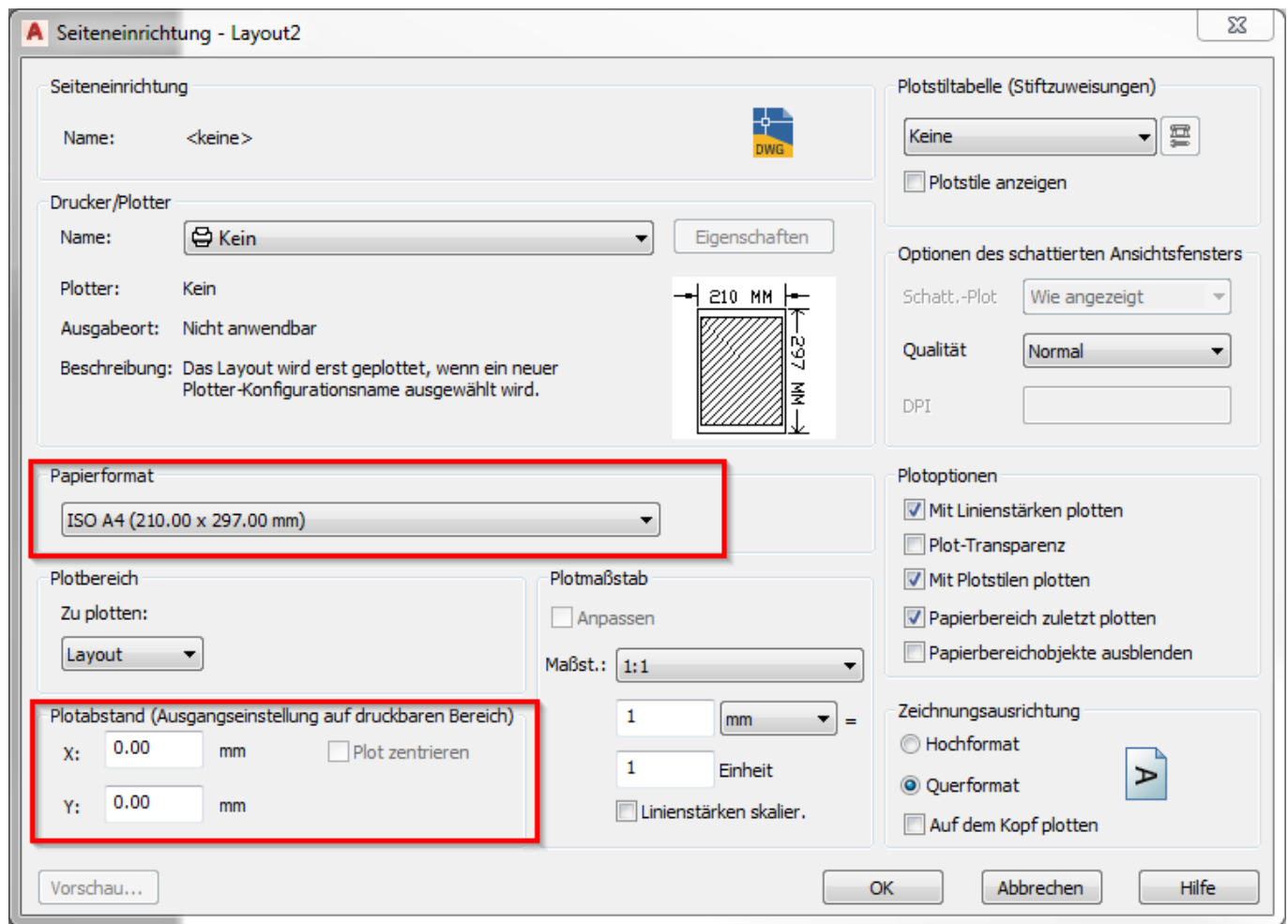
1. add another layout as shown in the following figure.



2. Then select the desired format and drawing frame.



3. after you have added the drawing frame, adjust the layout and the plotting distance (must be zero) accordingly



You also set the coordinates of the frame to **X=0 Y=0**.

4. fill the attributes of the title block with values

Schriftfeld-Einträge ändern

X

Dokument Nr. / Document	
alte Zeichnungs-Nr	
ähnlich/indentisch	
ähnlich/indentisch	
Benennung D	
Description	
Zus.beschr. / Add. Descr.	
Werkstoff	
Freig. Name / Approv.	
Freigeg. Dat. / Approv. Date	

OK

Abbrechen

Vorheriger

Nächster