

# CIDEON

engineering digitized.

Cideon – engineering digitized.

## Cideon Inventor Toolbox

### Small Tools With a Big Impact - For Your Accelerated Design Processes:

The Cideon Inventor Toolbox is a collection of practical tools that extend the standard of Autodesk® Inventor®. Inventor®. The small everyday helpers generate a noticeable improvement in the daily work with Inventor through more comfort, increased efficiency and assured quality.

The functions of the Cideon Inventor Toolbox are integrated into the Inventor menu ribbon. In the corresponding environments (assembly, part or drawing), only the tools are available for each case displayed.

#### Inventor 3D

Dimensions

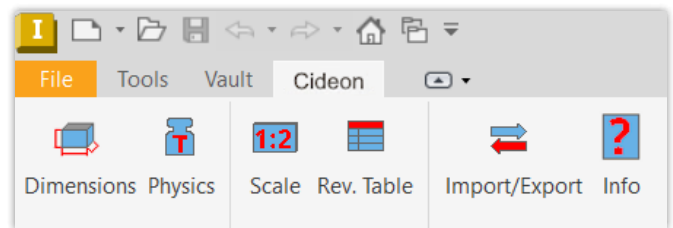
Physics

#### Inventor 2D

Scale

Revision Table

iLogic Functions



The Cideon Toolbox is integrated in Inventor

As part of the Cideon Professional Services, we offer useful additional Inventor Toolbox modules:

#### Inventor 2D/3D

Time Machine

PDM PartFinder

CAD Export

File-Update

#### Inventor 3D

Stock Material Selector

Model Visualizer

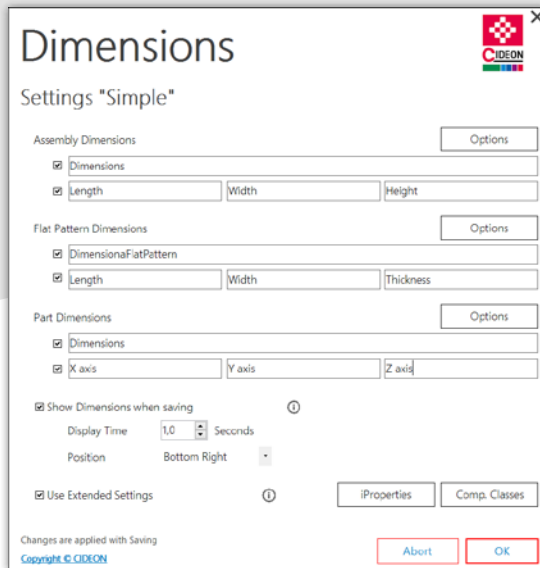
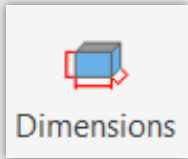
Vessel Tool

#### Inventor 2D

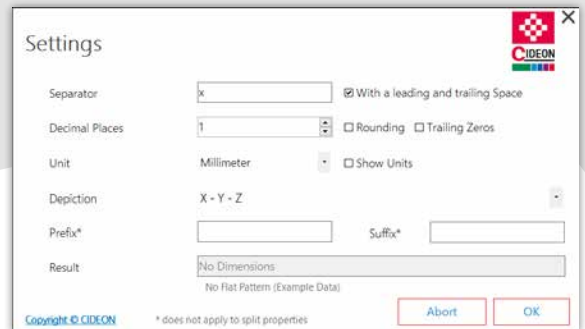
Sheet Tools

Fitting Lists

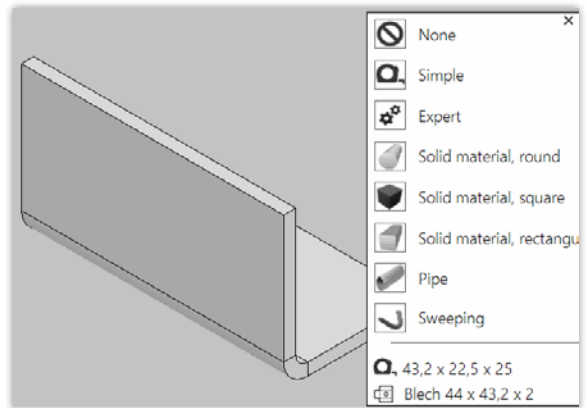
# Dimensions



Configuration of the Dimensions in "Simple" mode



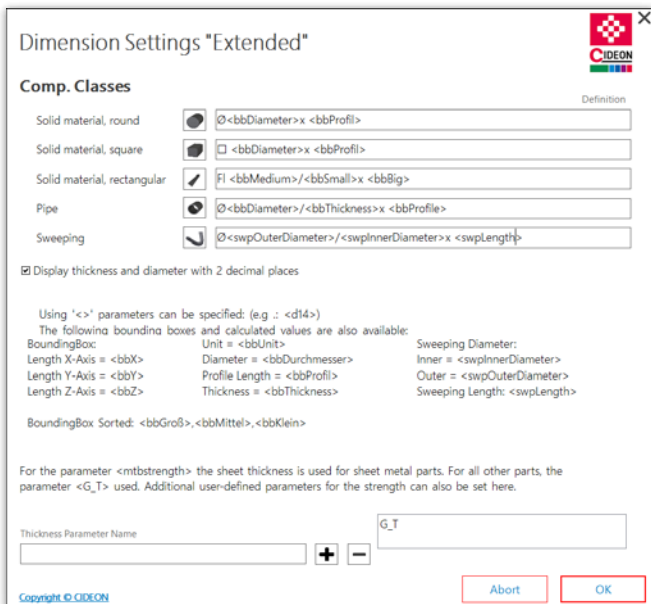
Options for value transfer of sheet metal unwindings



The component classes and their dimensions are displayed with file saving

## Model Dimensions Quickly Maintained

"Dimensions" provide functions to automatically transfer or update various dimensions of an Inventor model to its user-defined properties during each save operation.



Settings in "Extended mode"

Especially when using a PDM system, it may be necessary to use the properties with standardized formatting or conversion options. For this purpose, the tool offers extensive setting options.

An ad-hoc selection from different component classes (e.g. for pipe, solid material or sweeping values) can also be made manually directly via the preview that appears when saving. In the advanced mode, the tool also allows the precise determination of the parameters relevant for the dimensions directly via the graphic in the Inventor model, if this is required in individual complex situations.

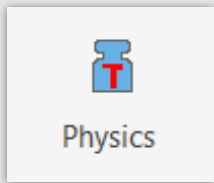
Name	Value
Definition	Ø 0.11 / 185 mm
Diameter	0.11 mm
Height	39 mm
Length	171.8 mm
PartClass	Sweeping
Width	29 mm

Example of iProperties of a sweeping part

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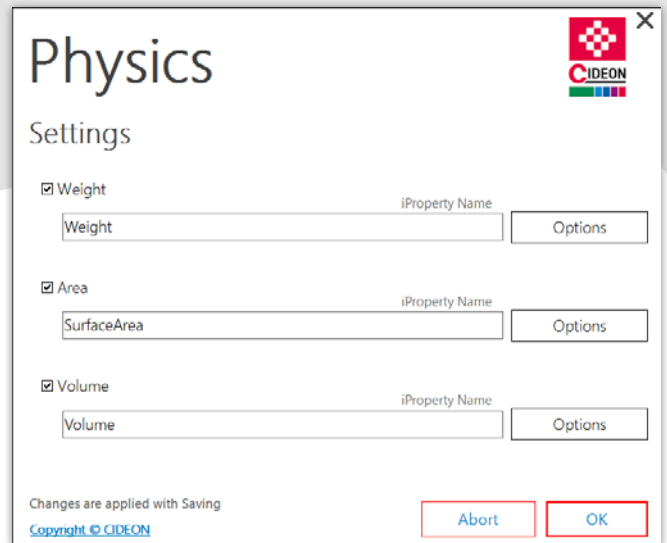


# Physics

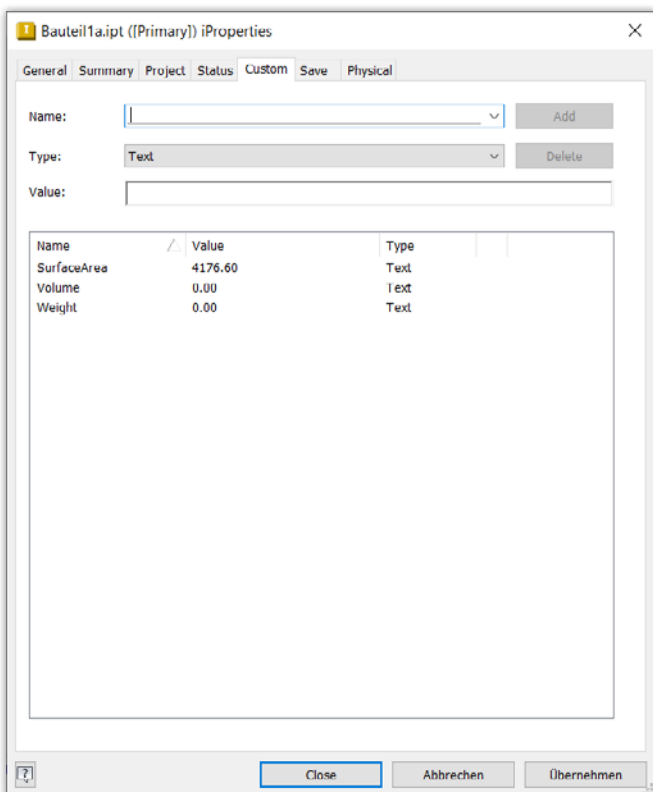


## Physical Model Properties Quickly Collected

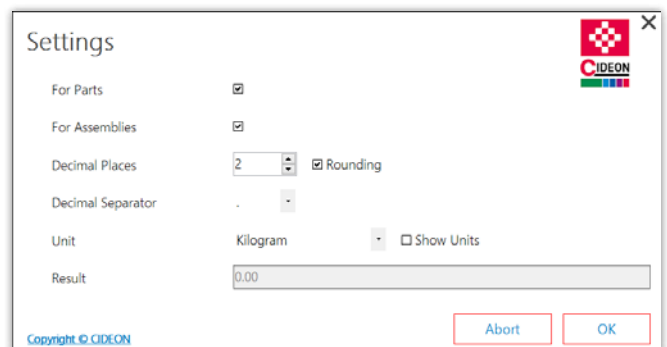
The configurations for writing the physical properties of components or assemblies into the Inventor iProperties are available via the Cideon "Physics" tool. These are created or updated each time the model is saved.



Settings for the transfer of physical properties in iProperties



Automatically filled iProperties of an Inventor part



"Physics" setting options (e.g. weight)

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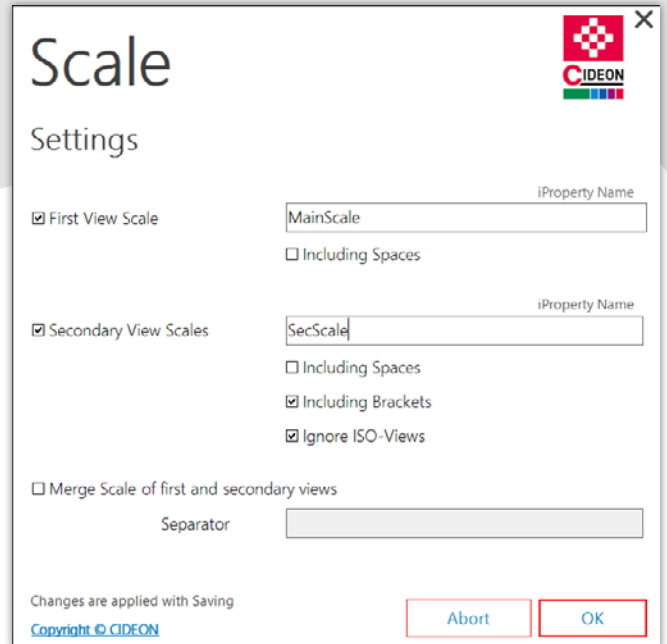
# Scale



## Collected Scales

The Cideon "Scale" tool provides settings to transfer or update all scales used in drawing derivations to Inventor iProperties.

Each time the drawing is saved, all present drawing views and their scales are collected, differentiated by main view and secondary view. The scales are then written to one or more iProperties and are subject to configurable formatting options.



Settings for determining the scales used

Name	Value	Type
MainScale	1:1	Text
SecScale	(2:1, 10:1)	Text

Scales used on drawing sheets in iProperties

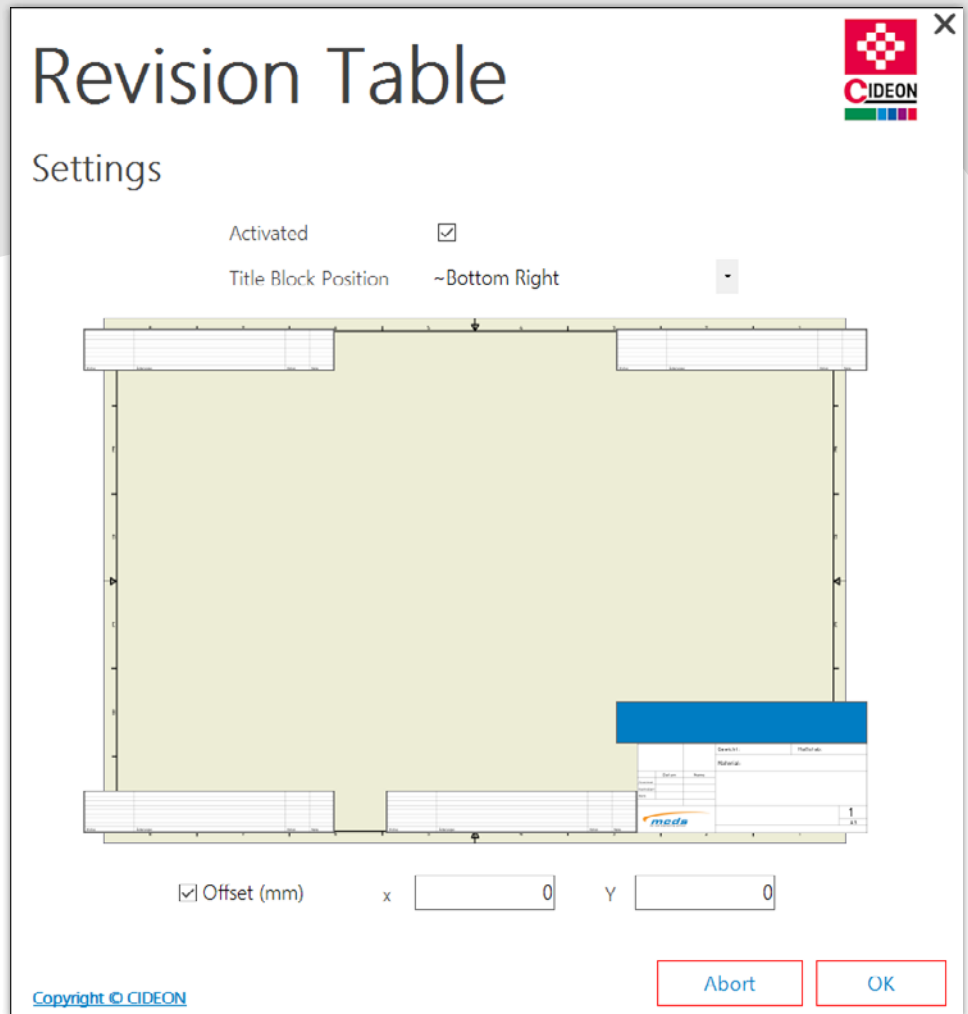
		Scale 1:1 (2:1, 10:1)	
Date	Name	Sheet Metal	
Drawn	22.05.2025 de80009087		
Checked			
Standard			
		1	
		A4	

Inventor drawing title block with entry of the used scales

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# Revision Table



Graphical selection of the placement of the revision table on a drawing

## Quickly Place Revision Tables

"Revision Table" provides configurations for automatic positioning of the revision table on an Inventor drawing.

This is specifically useful when using the Autodesk Vault PDM system, since its revision table is not automatically repositioned when the sheet size of a drawing is changed.

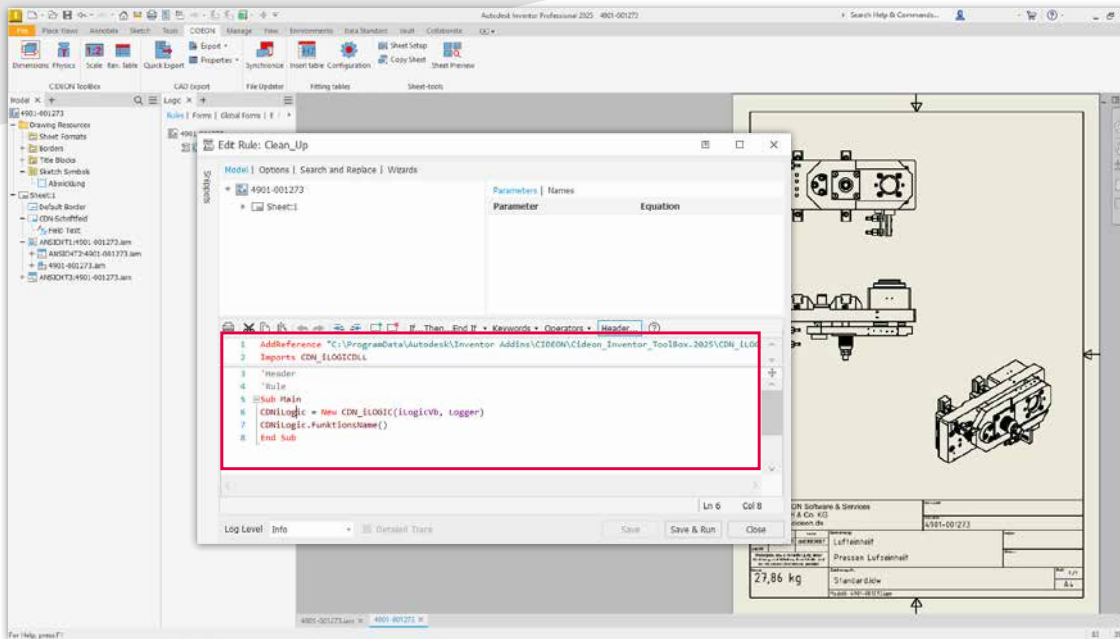
To avoid manual rework, the tool takes care of automatic placement on the drawing sheet, depending on the position of the title block. For this purpose, it is possible to work with direct constraints towards the title block as well as with offset settings in relation to the border of the drawing.

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# Cideon Inventor Toolbox

## iLogic Functions



Integration of the Cideon library into the Inventor iLogic rules

### Standardized iLogic Functions\*

With the Cideon iLogic functions, we provide a central library with standardized Inventor iLogic rules for tasks such as:

- Remove unlinked dimensions from drawings
- Rearrange all dimensions
- Center align view labels
- Remove unused components from assemblies
- Create user coordinate systems
- ...

The functions are bundled in a DLL and can be conveniently referenced in your own iLogic rules.

\*) Available from Inventor 2025

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PROCESS CONSULTING

ENGINEERING SOFTWARE

IMPLEMENTATION

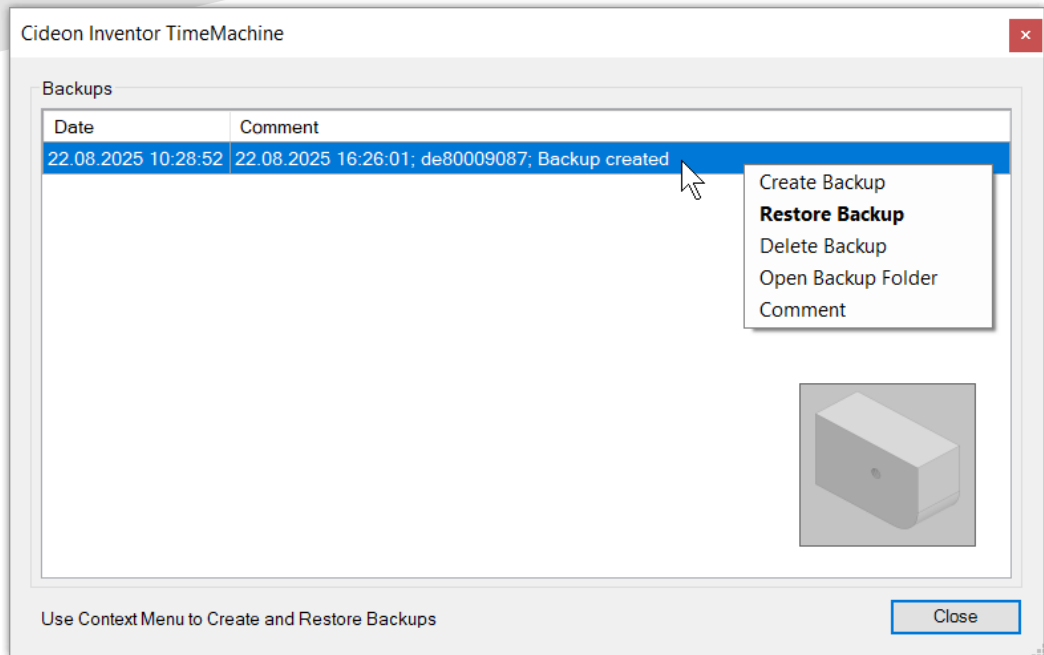
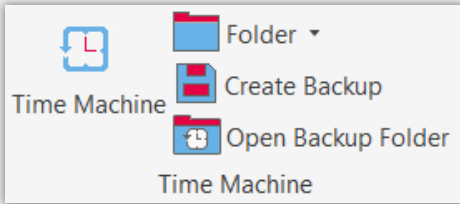
GLOBAL SUPPORT

FRIEDHELM LOH GROUP



# Time Machine

**Available as Additional Consulting Service**



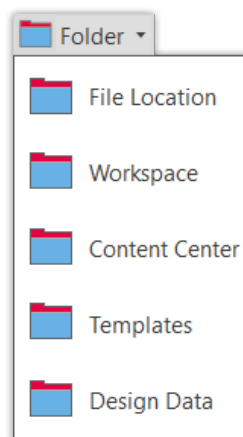
List of available backups of an Inventor file with preview and context menu

## More Secure Working has Never Been so Easy

"Time Machine" offers functions for saving and restoring different versions of Inventor documents. This provides the option of versioning - even without using a PDM system.

When working with Autodesk Vault, the use of "Time Machine" does not make sense, therefore the tool is deactivated if an Inventor – Vault connection exists.

The individual document statuses/versions can be restored, called up, commented on or deleted via their context menu. In addition, a preview is displayed for each version for quick identification.



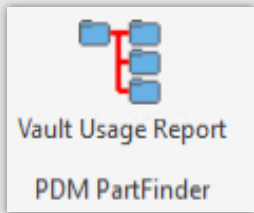
In addition, Time Machine provides quick access to relevant local storage locations of Inventor files and templates.

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# PDM PartFinder

**Available as Additional Consulting Service**



```

C:\Users\User\AppData\Local\Temp\Demo-Baugruppe.iam.txt - Notepad+
Datei Bearbeiten Suchen Ansicht Codierung Sprache Einstellungen Werkzeuge Makros Ausfuehren Plugins Fenster ?
Demo-Baugruppe.iam.txt
1 *****
2 VaultFileCheck Erstellt am : '2025-07-26 3:11:39'
3 Gepruefte Baugruppe : 'C:\AUTODESKVAULT\WorkFolder\Dokumente\Drone.iam'
4 *****
5
6 *****
7 Dateien, die in Vault ueber den Dateinamen gefunden und lokal aktualisiert wurden!
8 Lokale Dateien = Vault Datei lokal aktualisiert
9 *****
10
11 C:\AUTODESKVAULT\WorkFolder\Dokumente\ElectricalConverter.iam = C:\AUTODESKVAULT\WorkFolder\Dokumente\ElectricalConverter.iam
12 C:\AUTODESKVAULT\WorkFolder\Dokumente\Fan.ipt = C:\AUTODESKVAULT\WorkFolder\Dokumente\Fan.ipt
13 C:\AUTODESKVAULT\WorkFolder\Dokumente\Spacer.ipt = C:\AUTODESKVAULT\WorkFolder\Dokumente\Spacer.ipt
14
15 *****
16 Dateien, die in Vault ueber das Property 'OriginalFileName' gefunden und lokal aktualisiert wurden!
17 Lokale Dateien = Vault Datei lokal aktualisiert
18 *****
19
20 C:\AUTODESKVAULT\WorkFolder\Dokumente\SpiderArm.ipt = C:\AUTODESKVAULT\WorkFolder\Dokumente\Parts\100113.ipt
21 C:\AUTODESKVAULT\WorkFolder\Dokumente\ElectricUnit.iam = C:\AUTODESKVAULT\WorkFolder\Dokumente\100114.iam
22 C:\AUTODESKVAULT\WorkFolder\Dokumente\SpiderBase.ipt = C:\AUTODESKVAULT\WorkFolder\Dokumente\Check\100115.ipt
23 C:\AUTODESKVAULT\WorkFolder\Dokumente\SpiderSpinner.ipt = C:\AUTODESKVAULT\WorkFolder\Dokumente\Parts\100116.ipt
24 C:\AUTODESKVAULT\WorkFolder\Dokumente\SpiderTop.ipt = C:\AUTODESKVAULT\WorkFolder\Dokumente\Parts\100117.ipt
25
26 *****
27
28 Dateien, die in Vault ueber die Propertyuche mehrfach gefunden wurden!
29 Lokale Datei
30 *****
31
32 C:\AUTODESKVAULT\WorkFolder\Dokumente\DistributionBoard.ipt = &/Dokumente/Parts/100109.ipt
33 C:\AUTODESKVAULT\WorkFolder\Dokumente\SpiderBattery.ipt = &/Dokumente/Parts/100110.ipt
34
35 *****
36 Dateien, die nicht in Vault existieren!
37 Lokale Datei
38 *****
39
40 C:\AUTODESKVAULT\WorkFolder\Dokumente\Motor.ipt
41
Normal text file length: 2517 lines: 46 Ln: 46 Col: 1 Pos: 2518 Windows (CR LF) UTF-8 INS
    
```

The Vault usage report is written to a text file

## Manage Design Properly

The Cideon "PDM PartFinder" is used for file synchronization when using Inventor with Autodesk Vault as PDM system.

The tool checks if components used in an assembly already exist in Vault in order to avoid creating duplicates. If components are already stored in Vault, they can be exchanged automatically within the assembly after a confirmation.

The components are found by their file names in Vault. This can be done either directly or via the values of the iProperties.

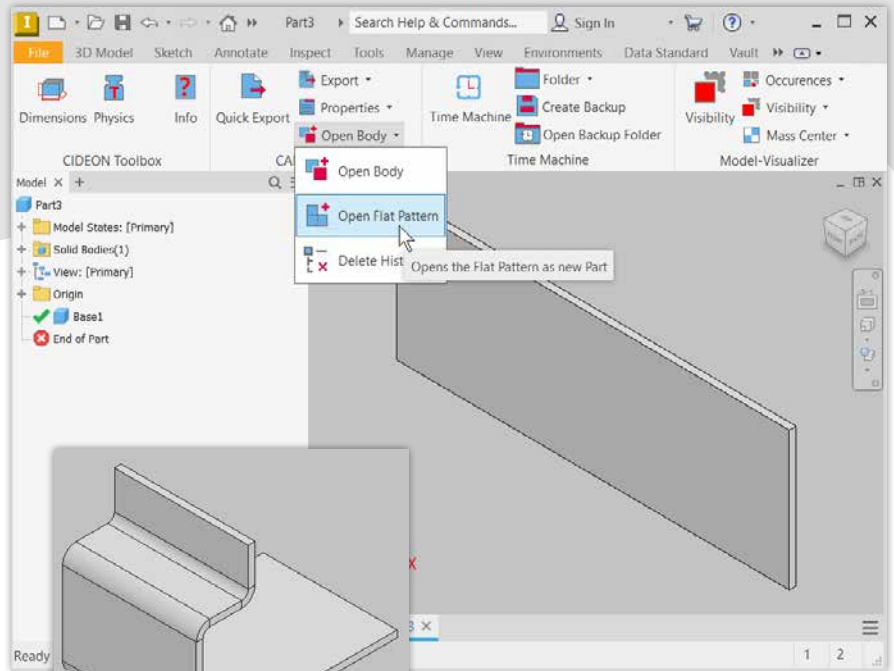
The results are displayed in a text report at the end of the command, allowing a controlled overview.

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# CAD Export

**Available as Additional Consulting Service**



Sheet metal development generated by function as body

## With a Click Everything at one Glance

"CAD Export" offers cool functions for a more efficient way of working:

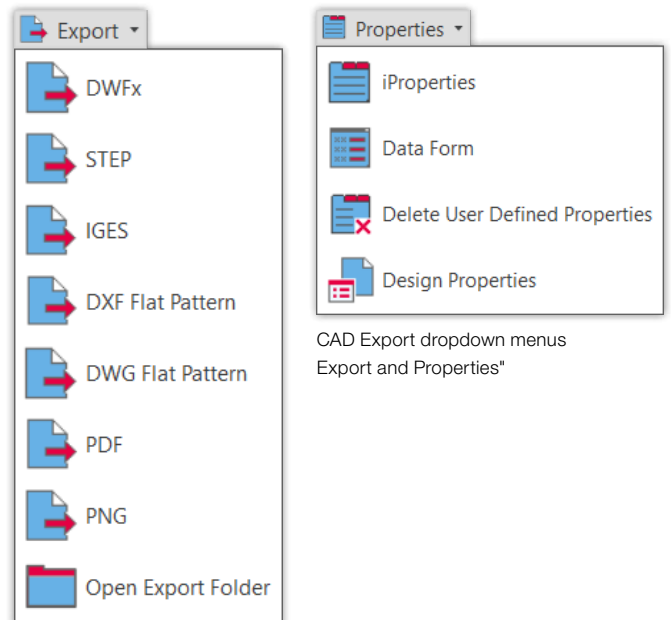
- Open body** (only for Inventor parts)  
 This command can be used to open parts or flat patterns as dumb bodies and to delete the modelling history. The quick copy of a solid as a new part is also practical.

- Export of Inventor documents into various neutral formats**

The drop-down menu allows the purposeful selection of export formats. These are time-stamped for each document and stored in a subfolder with the name of the original document. The base folder path is configurable. The configurable "Quick Export" generates all export formats, which are possible for the active Inventor document.

- Properties – Easy management of model properties**

iProperties of documents can be viewed, filtered and edited in a user-friendly table. User-defined properties can be deleted with one click. The configurable data sheet allows the input of often used iProperties.



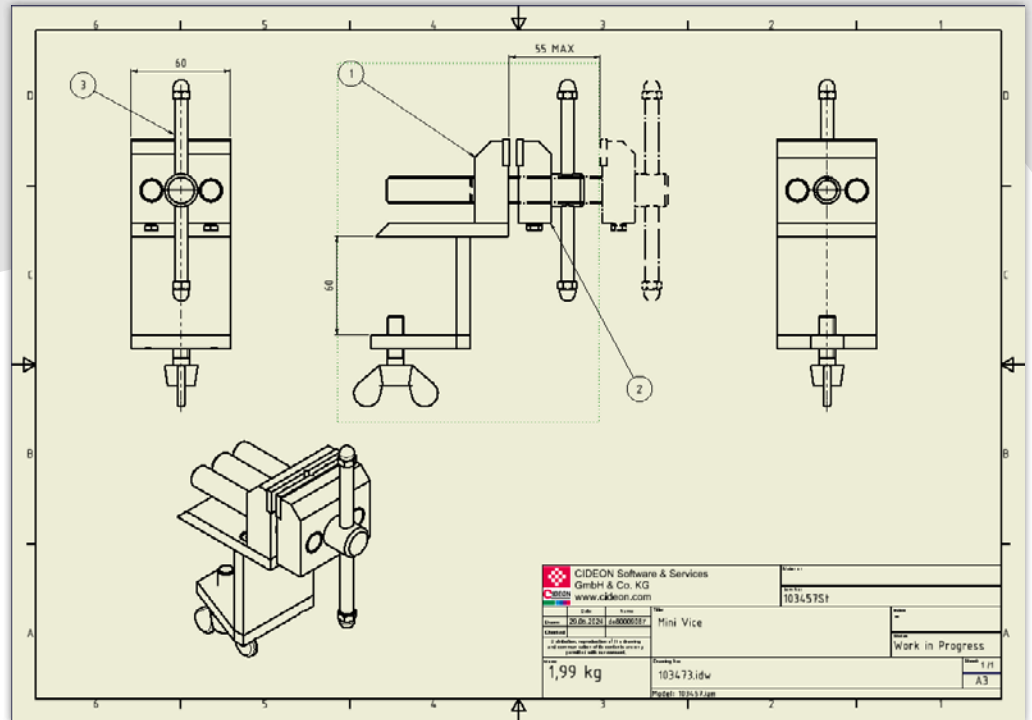
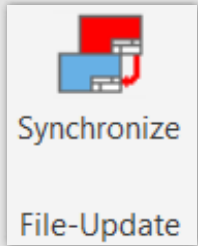
CAD Export dropdown menu "Export and Properties"

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# File-Update

**Available as Additional Consulting Service**



The drawing is synchronized with a template

## Simple and Fast - Always up to date

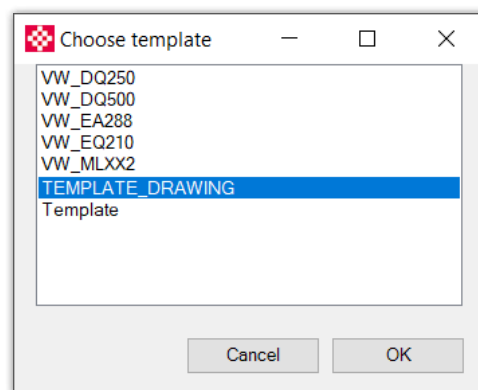
"File-Update" is used to update the resources of drawings and models based on templates. In the process, the settings of the template are copied to the active drawing and drawing resources that are no longer needed are deleted.

### Possible settings (all Inventor files):

- Styles
- Parameters
- Properties
- iLogic rules

### Additional settings (Inventor drawings):

- Drawing format
- Frame
- Title blocks
- Drawing views



(Optional) selection of a predefined Inventor template

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# Stock Material Selector



**Cideon Stock Material Selector**

Durch Inventor ermittelte Blechstärke: 6,0 mm + Aufmaß: 0,0 mm  
 Durch Inventor ermittelte Länge: 970,3 mm + Aufmaß: 0,0 mm  
 Durch Inventor ermittelte Breite: 100,0 mm + Aufmaß: 0,0 mm

Aktualisieren (F5)

Bleche

ID no	Thickness	Material	Type of check	Description	Length	Width
20474	6	S235JRG2	3.1	BL 6 3.1	970,300	100,000
20480	6	S235JRG3	3.1	BL 6 3.1	970,300	100,000
20624	6	S235JRG2	2.2	BL 6 2.2	970,300	100,000
25157	6	S235JRG3	2.2	BLECH TS 22	970,300	100,000

Flachmaterialen

ID no	Thickness	Material	Type of check	Description	Length	Width
20730	6	S235JRG2	3.1	FL 60*6 2.2	970,300	100,000
25656	6	S235JRG3	3.1	FL 90*6 2.2	970,300	100,000

Export DXF

OK Cancel

Dialog "Semi-finished Selection" for sheet metal parts

## Selection of Stock Material Made Easy

The tool simplifies the selection of stock materials for sheet metal parts and profiles. It analyzes the geometry of a sheet metal part and offers two lists stock materials (sheets and flat materials) to the user. Sheet metal is filtered according to material thickness; for flat bars, the width is also taken into account.

For sheet metal parts, an additional part number can be determined from the preset data source. The selection criterion 'sheet thickness' is determined by finding the two largest parallel surfaces in the part and calculating the distance between them. Machining allowances are handled as well.

Raw dimensions (length, width) of the sheet metal are automatically determined from the Inventor part and written to the corresponding iProperties. Then they are evaluated and used as filter criterion for the display of the flat materials in the selection dialog.

## Functions

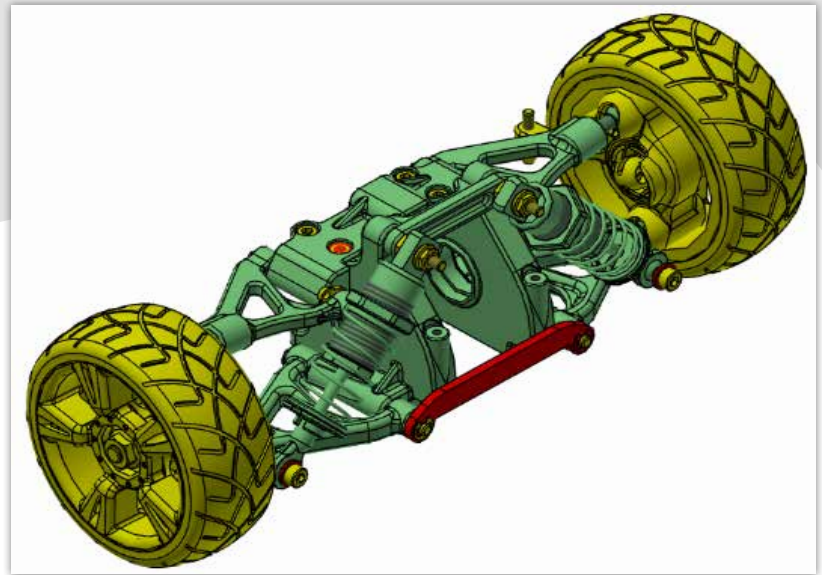
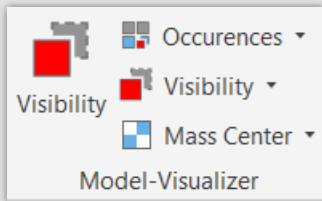
- Converts suitable parts into sheet metal parts
- Detects thickness, length and width of sheets and profiles
- Determines the dimensions of the sheet metal part
- Searches for a suitable semi-finished part from a data source (CSV files, SQL database or the PDM systems Autodesk Vault and PRO.FILE)
- Automatic DXF export

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# Model Visualizer

**Available as Additional Consulting Service**



Color display of the degrees of freedom of contained components

## Keeping the Overview

The Cideon "Model Visualizer" offers functions to improve the overview and to visually analyze assemblies and parts.

### ■ Visibility

This function allows to quickly switch on and off the visibility of solid bodies or, in the case of assemblies, the used components, as well as sketches, working elements and dimensions.

### ■ Occurences (only available for Inventor assemblies)

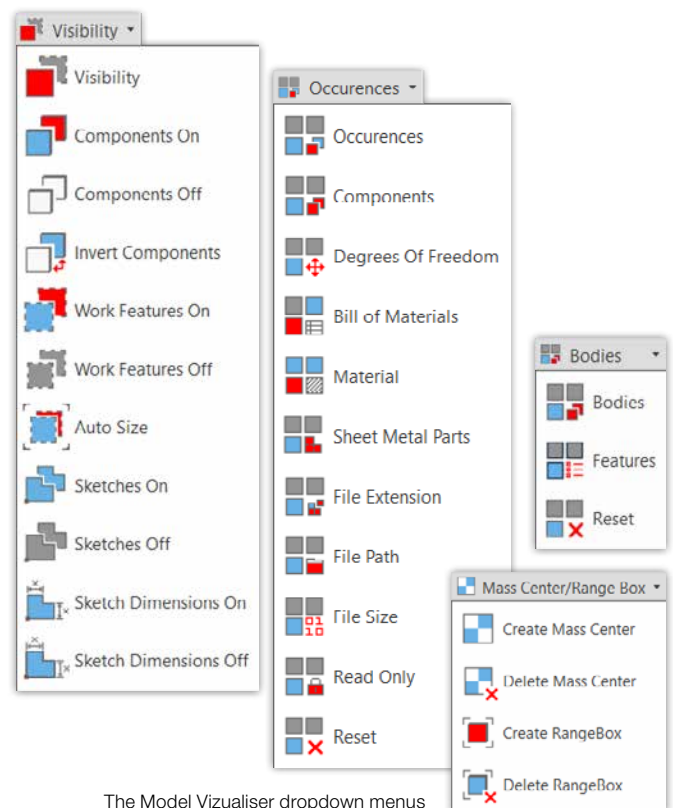
These functions can be used to perform extensive color analyses according to various criteria.

### ■ Bodies (only available for Inventor parts)

Solid bodies and surfaces of features can be colored variously.

### ■ Center of Gravity/Rangebox

This function allows the visualization of the model range of parts. For assemblies, working points can be created in the center of gravity.



The Model Vizualiser dropdown menus

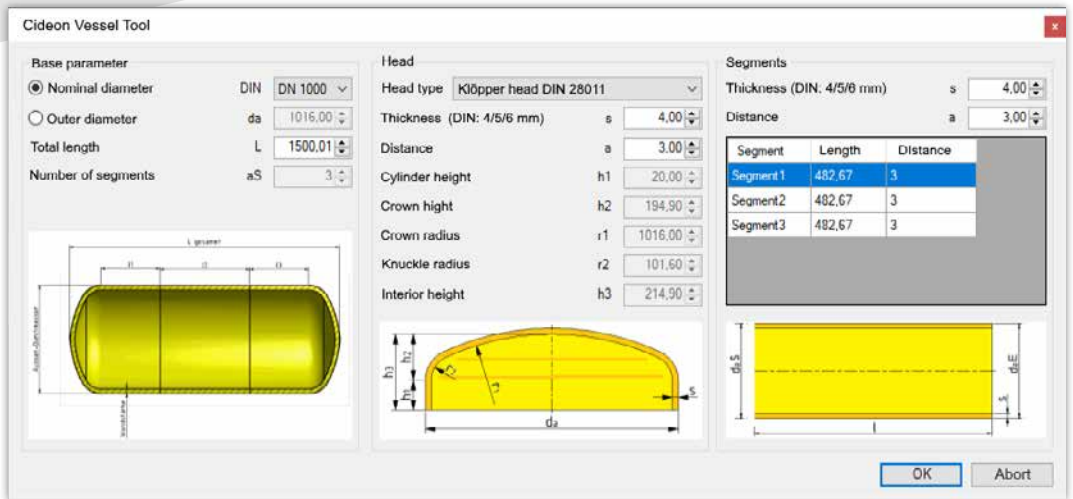
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# Vessel Tool



Create a new vessel with the wizard

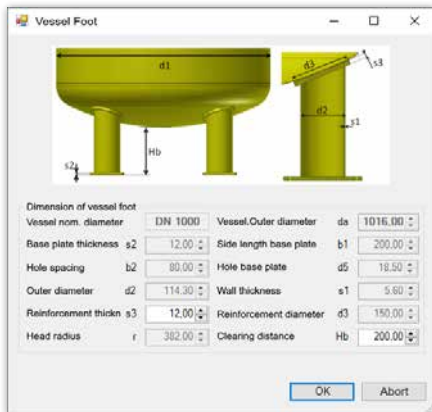


## Create Vessels Quickly and Easily

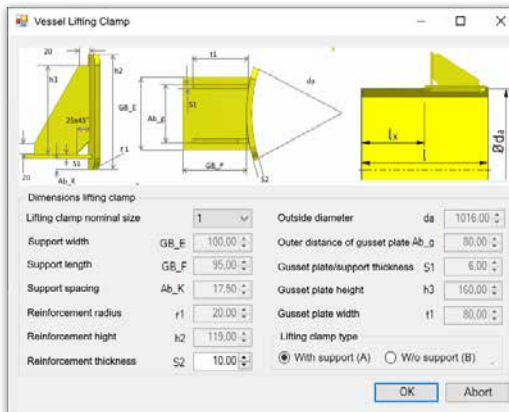
The Cideon vessel tool provides functions to define complete, upright vessels from their overall dimensions and to build them element by element.

## This function allows you to create and use:

- Vessels with multiple wall segments
- Heads automatically according to standard
- Common head shapes
- Various nozzle shapes on wall and heads
- Matching feet and brackets



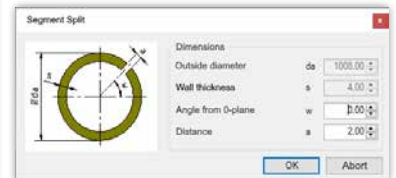
Definition of a vessel foot



Definition of a vessel lifting clamp



Definition of a vessel segment



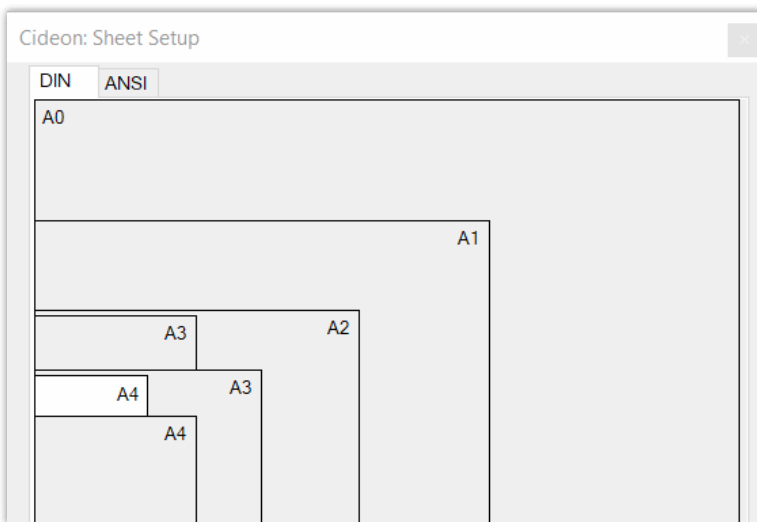
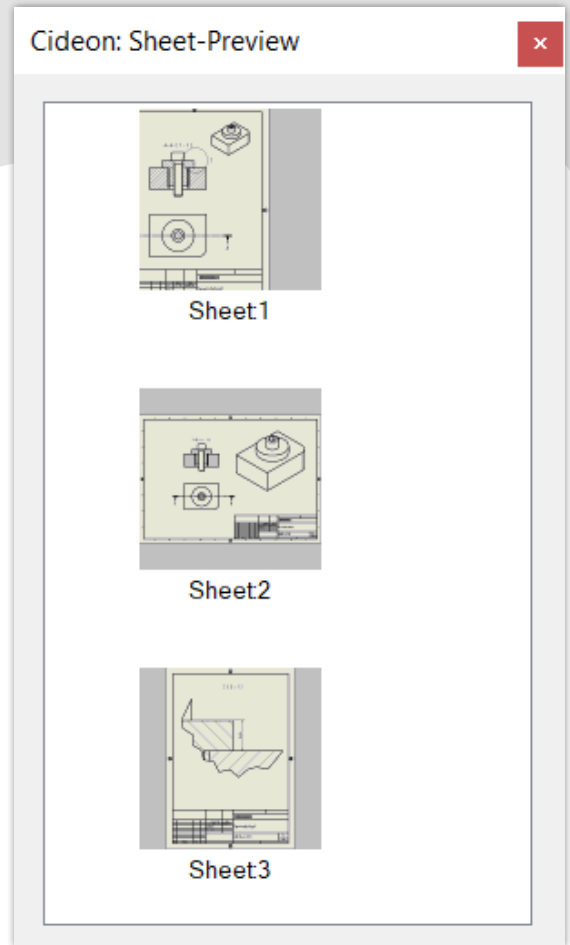
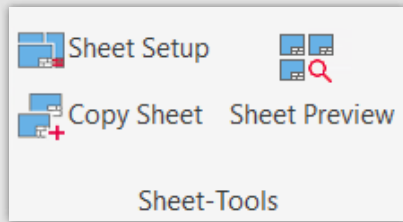
Splitting of a wall segment

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# Sheet Tools

**!** Available as Additional Consulting Service



Quick adjustment of the border and title block in an Inventor drawing

Preview of all sheets in an Inventor drawing

## Edit Drawings in Seconds

The Cideon "Sheet Tools" offer a fast overview of drawing sheets via a graphic interface and the possibility of quick adjustment.

The functions allow borders and title blocks to be adjusted very quickly. Furthermore, individual sheets can be copied and a dialog box with a preview of all sheets is available for quick navigation.

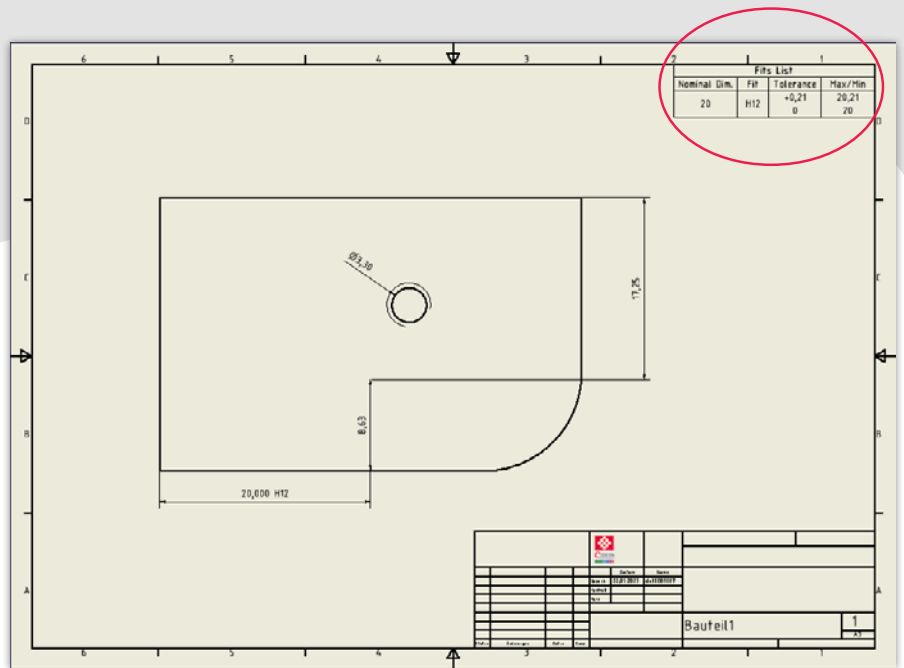
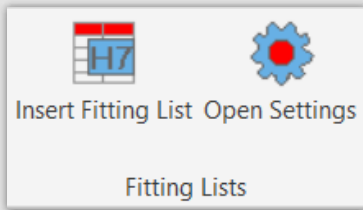
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# Cideon Inventor Toolbox

## Fitting Lists

**Available as Additional Consulting Service**



Inventor drawing with automatically generated fitting list

### Fast, Simple, Efficient

The Cideon tool "Fitting Lists" enables the quick insertion of a fits list in Inventor drawings. The tool searches the drawing for holes and their fits, collects the values and inserts them as a table in the drawing.

### Requirements for the Cideon Inventor Toolbox and the additional toolbox modules:

- Autodesk Inventor Professional 2022 or newer
- Optional PDM system (depending on tool):  
Vault Professional 2022 and higher, or PRO.FILE
- Windows 10 (64 Bit) or higher



### Cideon Add-Ons: Automation, Optimization, Integration

With our experience from hundreds of projects, we have built up a unique product and consulting know-how. Together with our customers, we have identified solutions, defined use cases and implemented individual requirements. **You can now benefit from this.** In addition to our deep software expertise in PDM/PLM and engineering environments, we offer a comprehensive consulting- and service portfolio, plus best practices for your efficient design processes. **Contact us!**

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info@cideon.com · www.cideon.com

