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# **X-BIM CAD Browser**

**Quick guide**

## **TROX components, X-CUBE Air Handling Units and TROX X-FANS**

Version 25.0.0 (20. Aug 2024)

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  - What is the X-BIM CAD Browser, and for whom.....[p.3 - p.5]
  
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  - Basic functions and utilisation strategies.....[p.12 - p.17]
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  - Configuring and importing TROX X-FANS.....[p.43 - p.50]
  
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# **Introduction and Overview**

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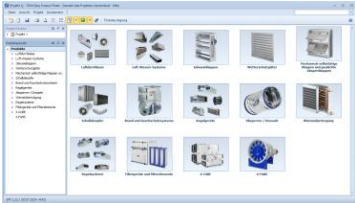


The X-BIM CAD Browser...

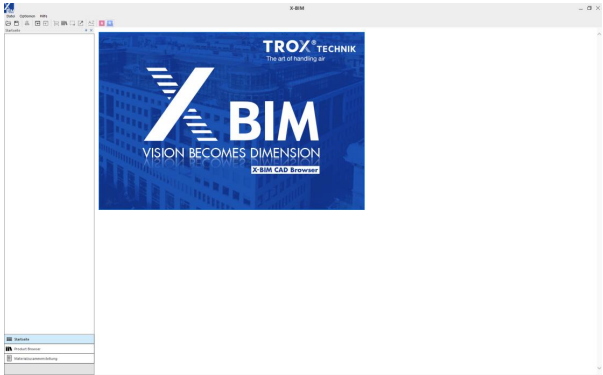
...was developed to make your planning work easier and safer. Three-dimensional planning has been an integral part of many planning offices, and not just since BIM. Product data from manufacturers are crucial for professional planning. Specific TROX components, TROX AHUs and X-FANS can be easily used in your Revit or AutoCAD application thanks to the X-BIM CAD browser. You can also use the X-BIM CAD Browser to easily generate formats such as DWG, DXF and IFC. This means that three-dimensional planning with TROX products is possible with almost all model-based planning tools.

# The X-BIM CAD browser concept

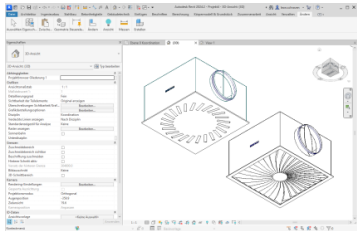
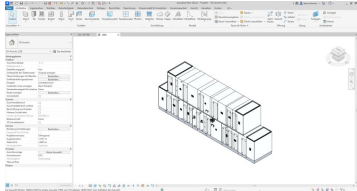
TROX data source



X-BIM CAD Browser



Use in design software





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# **Installation and Updates**

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# Installation and Update

## Initial installation

X-BIM

TROX  
The art of handling air

Deutsch

Wählen Sie die Produkte aus der Liste aus, und klicken Sie auf Installieren. Die ausgewählten Produkte werden nacheinander installiert.

Produkt	Status	Beschreibung
<input checked="" type="checkbox"/> X-BIM	Neu	
<input checked="" type="checkbox"/> LINEAR Installation Center	Neu	
<input checked="" type="checkbox"/> Manufacturer CAD Solutions	Neu	
<input type="checkbox"/> Microsoft .NET Framework (installiert)	Installiert	

< Zurück   Installieren   Beenden

## Update

X-BIM

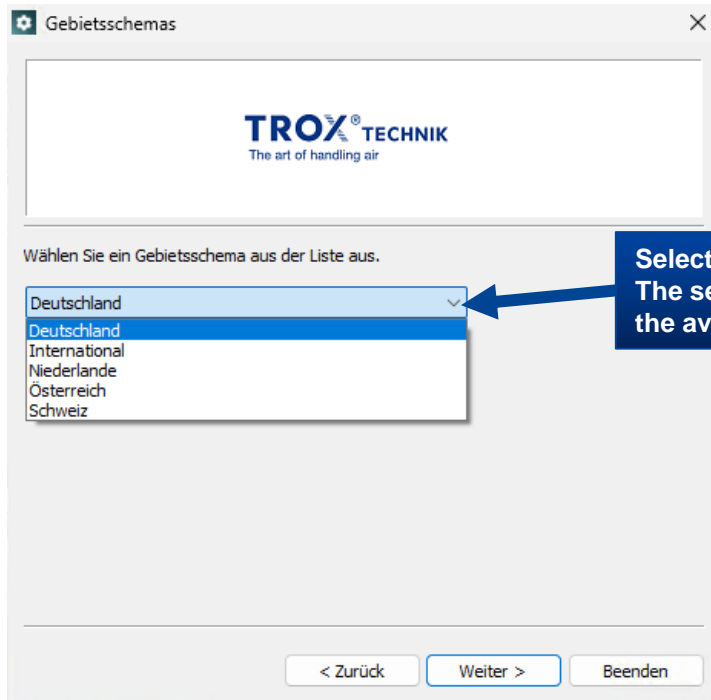
TROX  
The art of handling air

Deutsch

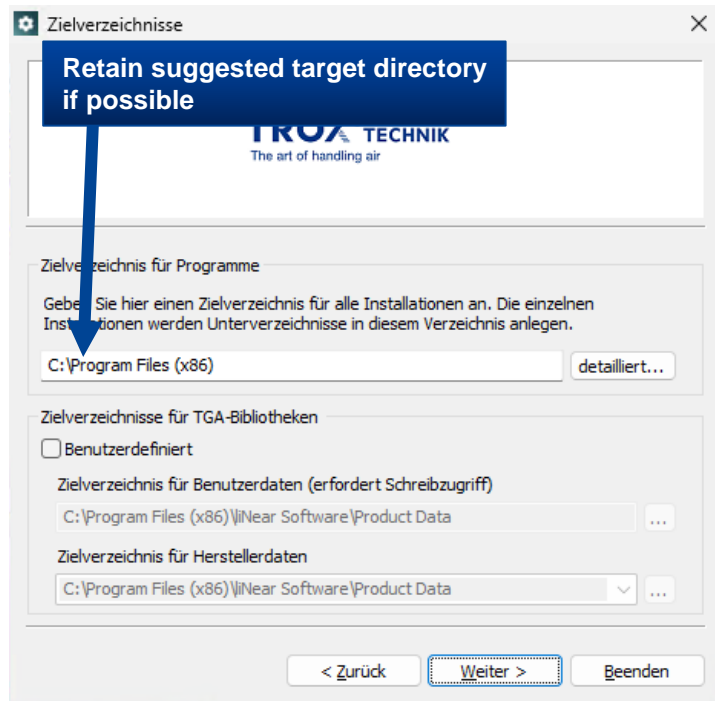
Wählen Sie die Produkte aus der Liste aus, und klicken Sie auf Installieren. Die ausgewählten Produkte werden nacheinander installiert.

Produkt	Status	Beschreibung
<input checked="" type="checkbox"/> X-BIM (Update)	Neu	
<input checked="" type="checkbox"/> LINEAR Installation Center (installiert)	Installiert	X-BIM CAD Browser
<input checked="" type="checkbox"/> Manufacturer CAD Solutions (installiert)	Installiert	Browser für herstellerspezifische Zeichnungen
<input type="checkbox"/> Microsoft .NET Framework (installiert)	Installiert	- Erzeugen einer Stückliste - Ausgabe im txt-Format - Ausgabe im GAEB-Format

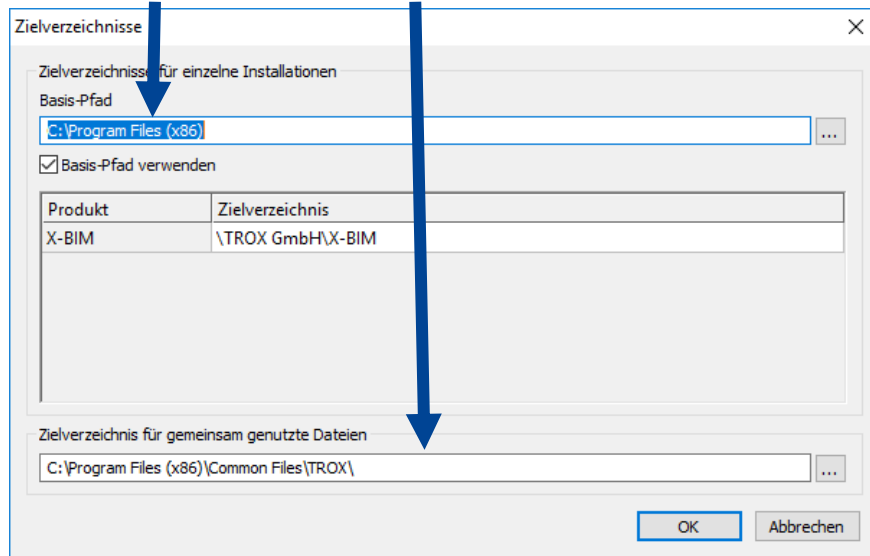
< Zurück   Installieren   Beenden



**Selection of the locale (country).  
The selection has an influence on  
the availability of products**



When customising the target directory, both should point to the same drive.  
Problems may occur if different drives are selected



## Note

- After installation, the computer should be restarted, to establish a connection between Revit / AutoCAD and the X-BIM CAD Browser.
- If a restart is not possible at this time, at least Revit or AutoCAD must be restarted to establish the connection.
- The first time you start Revit / AutoCAD after installing the X-BIM CAD Browser, you will be asked to allow a connection to this LINEAR application for Revit. You must confirm this query in order to be able to use the X-BIM CAD Browser together with your CAD software. If you decline here, it is not possible to transfer model files from the X-BIM CAD browser directly into your application.



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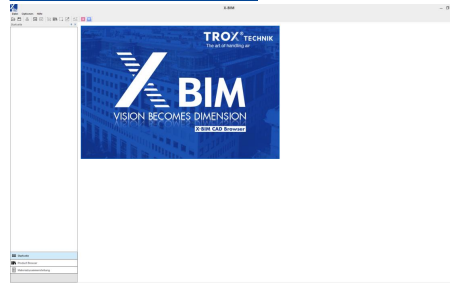
# **Basic functions and utilisation strategies**

Page 12 - 17

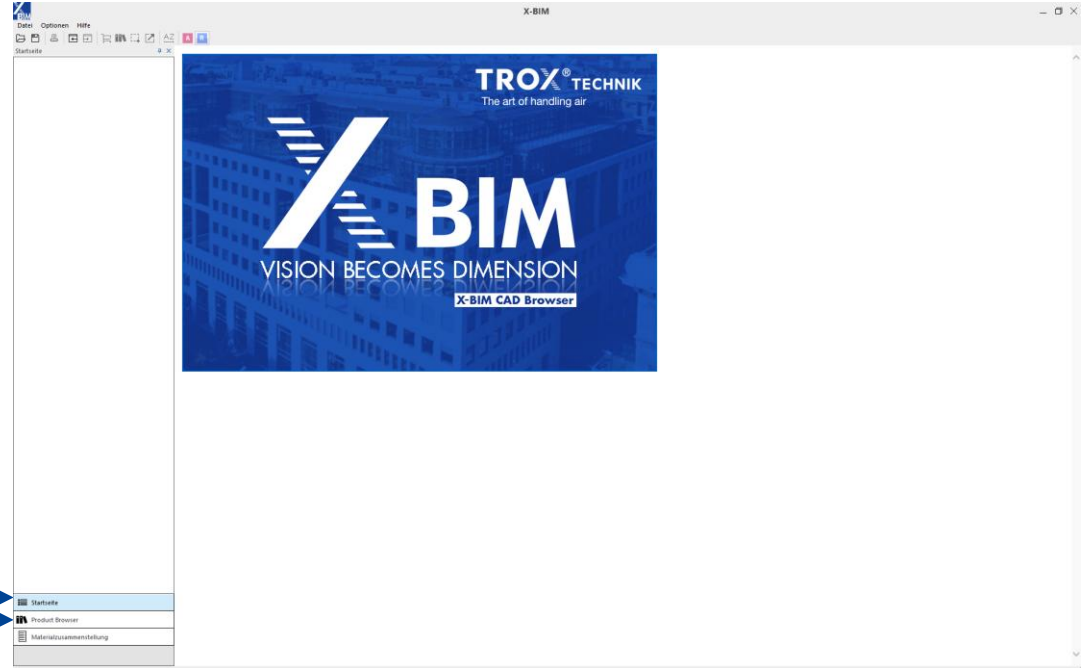
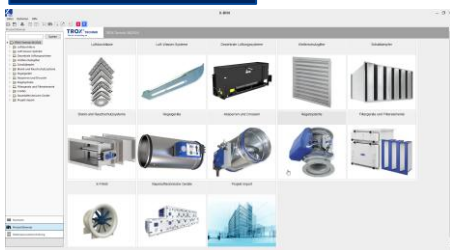
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## Basic functions

### Start page

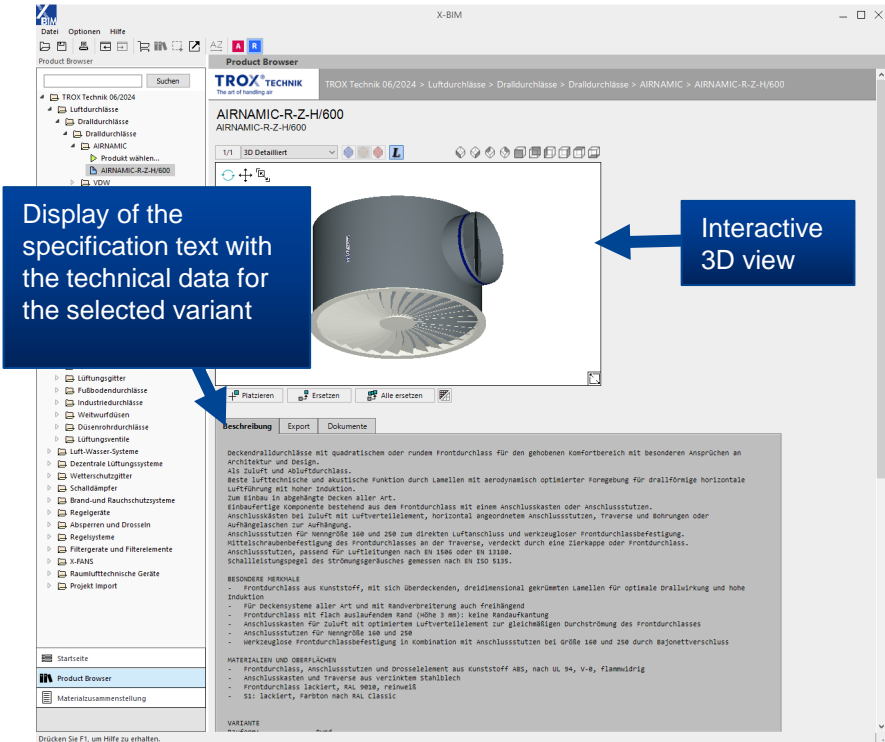


### Product selection

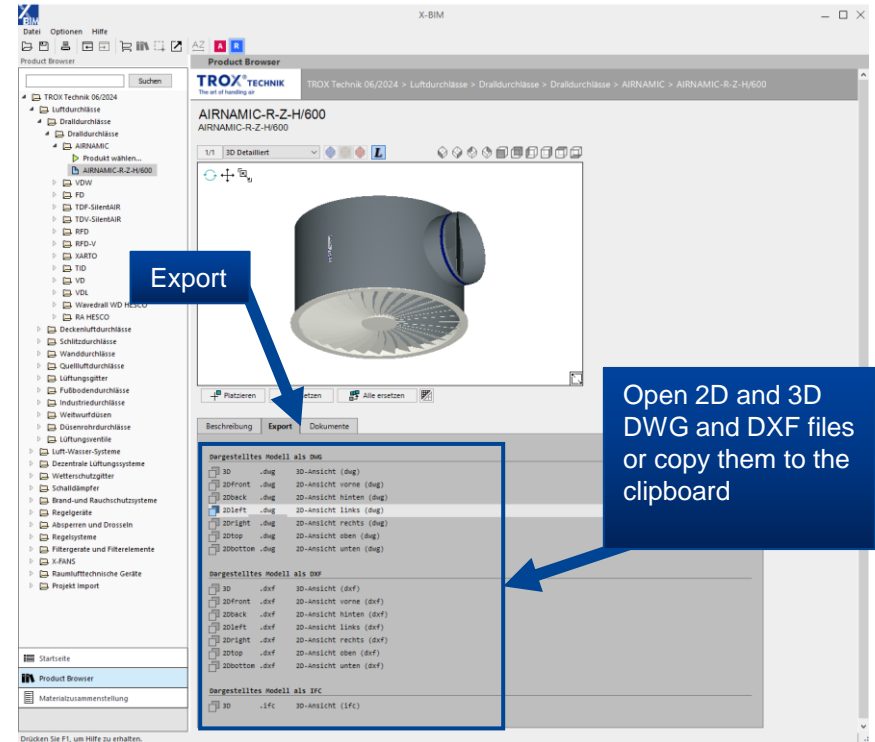


Basic functions

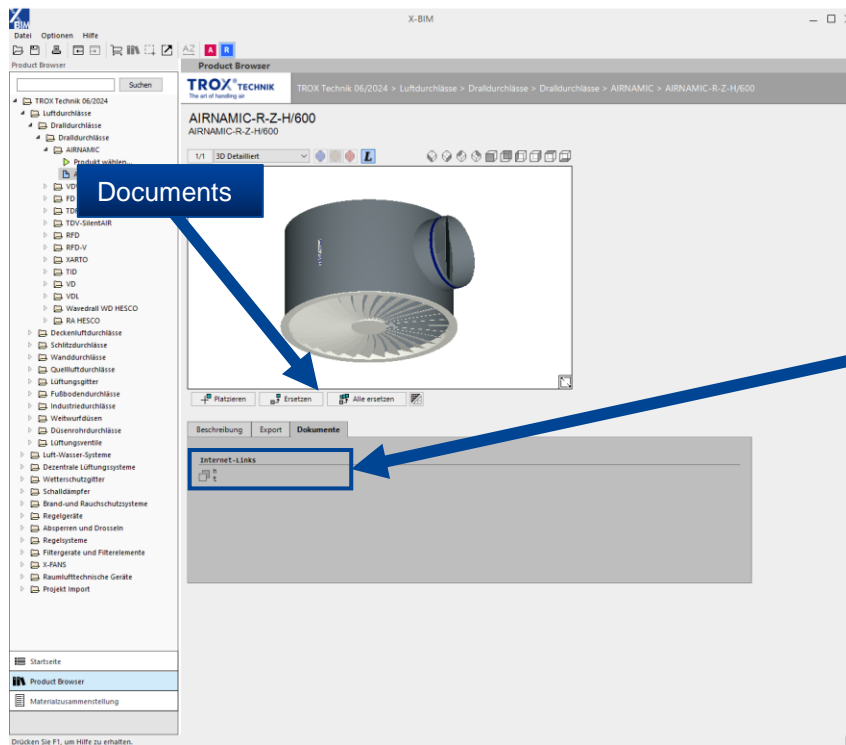
Specification / Tender text



2D and 3D exports - DWG / DXF / IFC



### Product data sheet



Product data sheet available as a PDF and with as link to the product page

# Basic functions

Selection of transfer to Revit or AutoCAD

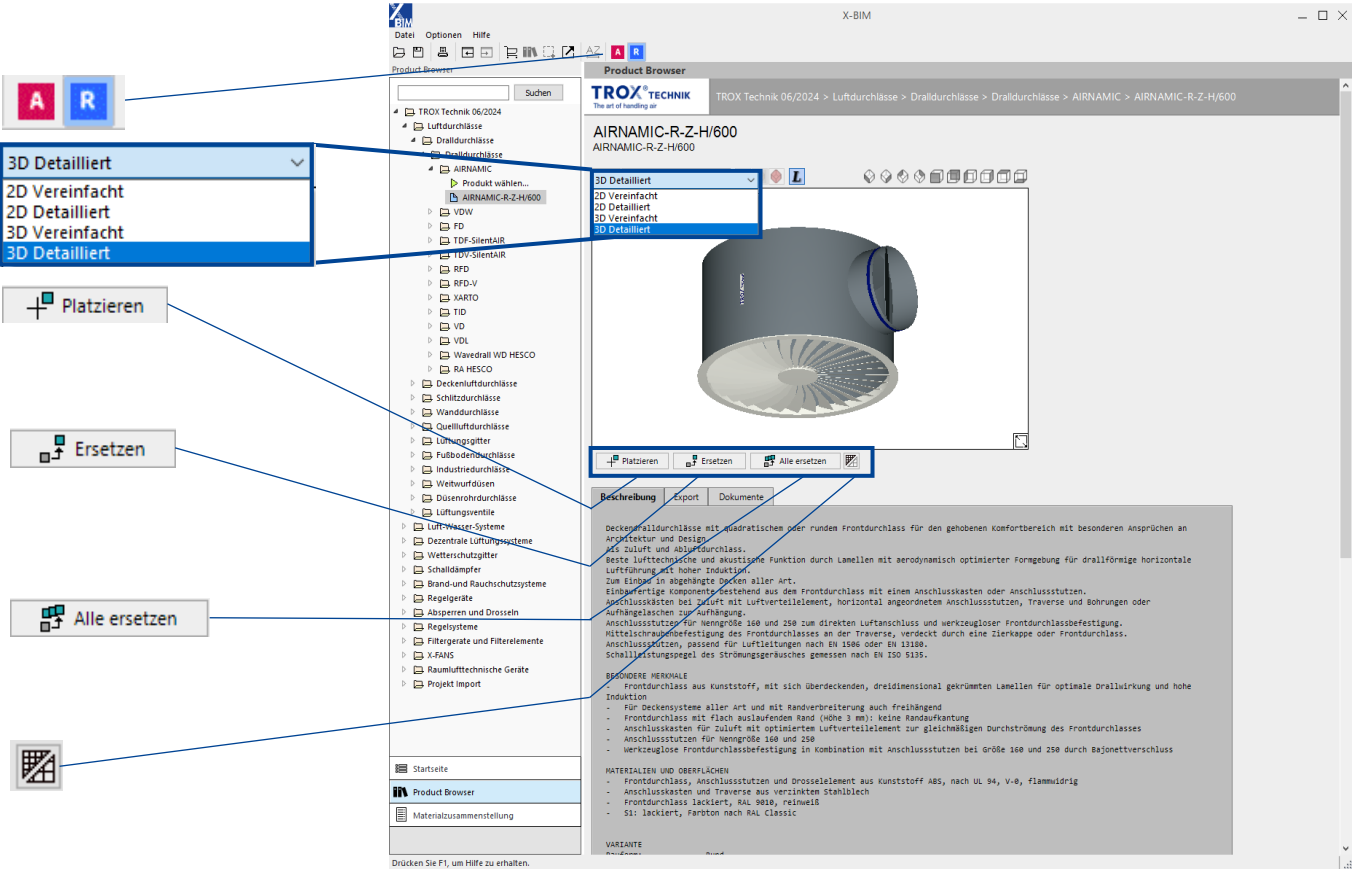
Selection of the product's display options

Component can be placed in the CAD programme

Replaces an existing product (in the planning application) with the current product from the X-BIM CAD browser

Replaces all identical products (in the planning application) with the current product from the X-BIM CAD browser

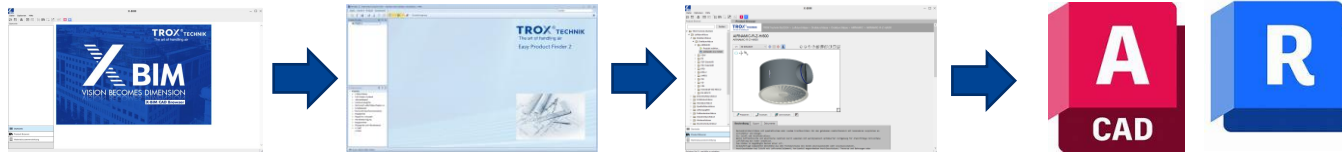
When activated, only the simplified geometry is transferred to Revit/AutoCAD. If not activated, all available detail levels are transferred.



# Utilisation strategies

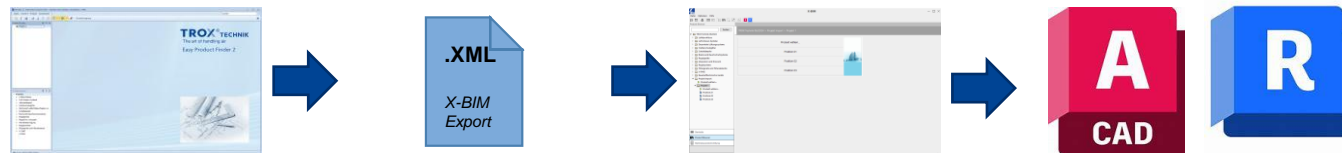
## 1. Design of individual products on demand (see page 16-22)

- Selection of the respective type and design in the X-BIM CAD browser (with integrated EPF)
- Inserting the products into the 3D planning



## 2. Utilisation of the already designed products of an EPF project (see page 24-29)

- Import the X-BIM project file from TROX design tools into the X-BIM CAD browser
- Inserting the products into the 3D planning





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# **Configure and import TROX components**

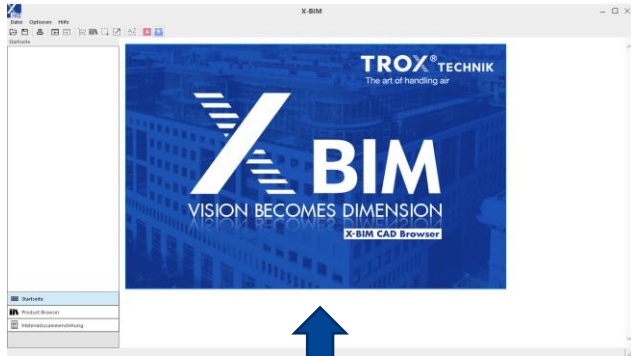
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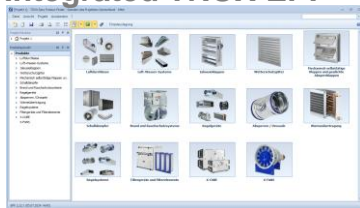
## Configure and import

# TROX Components → Design on Demand

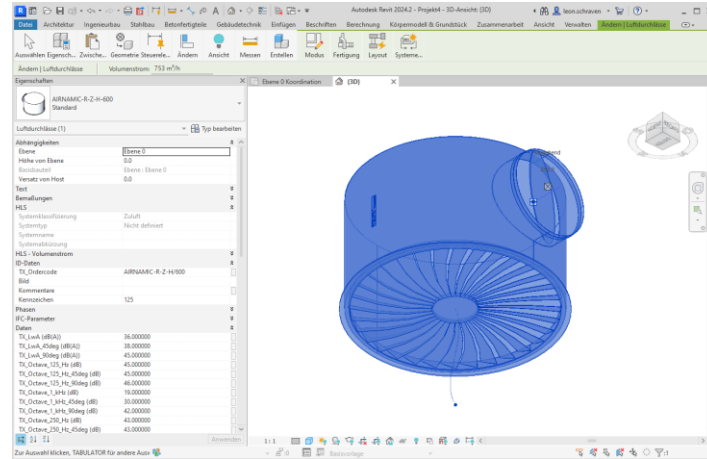
### X-BIM CAD Browser



### Integrated TROX EPF



### Design software based on Revit or AutoCAD



Alternatively, geometry data can be generated in DXF, DWG and IFC formats

## Selecting a product type

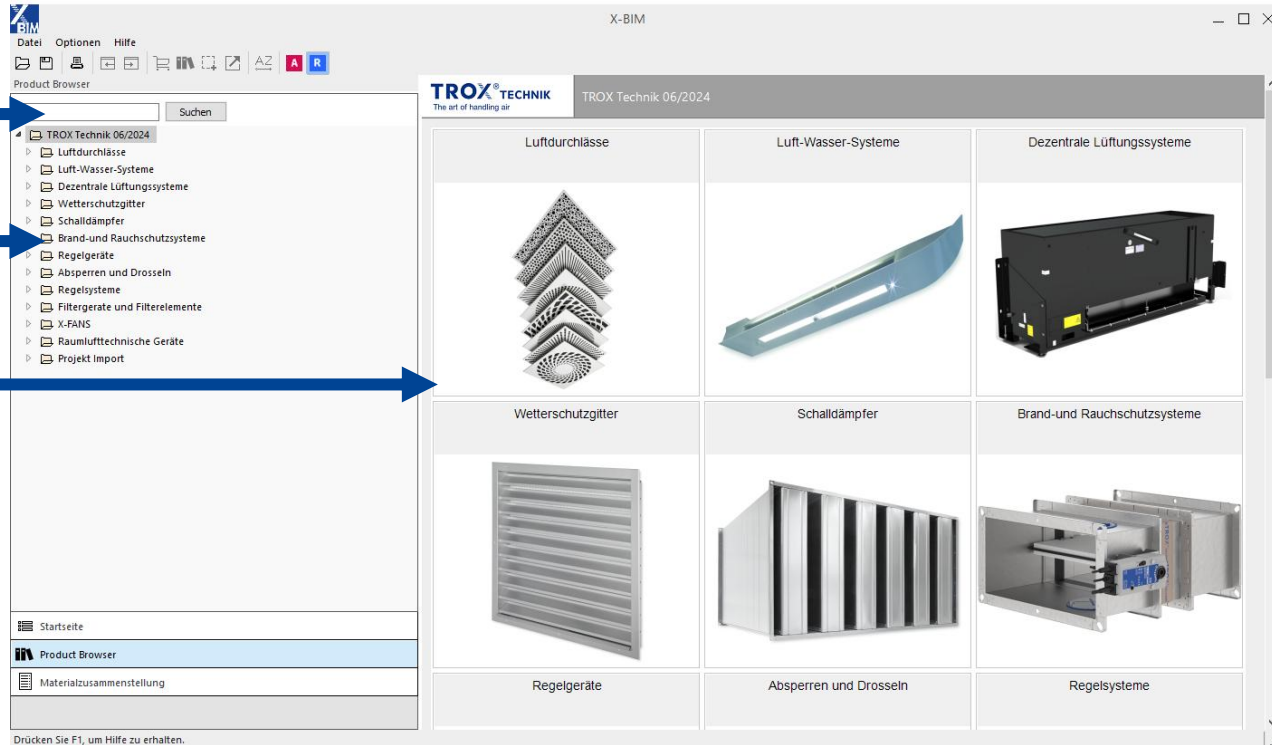
1

Product selection via one of the three ways shown

Product selection via direct search

Product selection via tree structure

Product selection via graphical user interface



Drücken Sie F1, um Hilfe zu erhalten.

## Selecting a product variant


2 Pressing the button **Produkt wählen...** opens the integrated TROX Easy Product Finder to configure the desired variant

The screenshot displays the TROX software interface. The breadcrumb trail at the top reads: TROX Technik 06/2024 > Luftdurchlässe > Dralldurchlässe > Dralldurchlässe > AIRNAMIC. The main content area features a search bar and a button labeled "Produkt wählen..." next to a circular fan icon. Two inset boxes show the product browser tree structure, with the "AIRNAMIC" variant selected.

- TROX Technik 06/2024
  - Luftdurchlässe
    - Dralldurchlässe
      - Dralldurchlässe
        - AIRNAMIC**
        - VDW
        - FD
      - TDF-SilentAIR
      - TDV-SilentAIR
      - RFD
      - RFD-V
      - XARTO
      - TID
      - VD
      - VDL
      - Wavedrall WD HESCO

## Configuration of the variant in the integrated Easy Product Finder

**3** Configuration of the desired variant on the TROX Easy Product Finder interface

**4** Click on the button  to transfer the selected variant back to the X-BIM CAD Browser\*

Produktauswahl

Eingabe

Strategie  
Einreihige Durchlassanordnung

Volumenstrom  
Volumenstrom  $q_v$  753 m<sup>3</sup>/h

Zwischenräume/Abstände

Abstand a 2,4 m  
Abstand x 1,2 m  
Abstand  $h_1$  1,2 m

Ergebnisse

Zwischenräume/Abstände  
Abstand  $(h_1 + x)$  2,4

Lufttechnische Ergebnisse

Effektive Auströmgeschwindigkeit  $v_{eff}$  4,15  
Wurfweite  $l_f$  4,5  
Geschwindigkeit bei  $h_1$   $v_{h1}$  0,30  
Temperaturdifferenz bei  $h_1$   $\Delta t_{h1}$  -0,70  
Geschwindigkeit bei  $l_f$  0,37

Anwendung/Foto/Video

AIRNAMIC

Vorderansicht AIRNAMIC R 600

Schalleistungspegel/Druckverlust	$\Delta p_t$	Lw A		
		63 Hz	125 Hz	
Klappenstellung AUF	27	36	37	45
Klappenstellung 45°	57	38	37	45
Klappenstellung ZU	106	45	37	46

EPF 2.21.2 (25.04.2024 12:09)

Drücken Sie F1, um Hilfe zu erhalten.

**\*Variants for which no geometry data is contained in the Easy Product Finder cannot be transferred.**

## Insert into the project

**6**

Specific product model can be placed and used in Revit. Product data (connections, order codes, specification texts and technical data are available in the model)

**5**

Click on **Platzieren** to transfer the product variant to the open Revit or AutoCAD project

**Eigenschaften**

AIRNAMIC-R-Z-H-600	
Standard	
Luftdurchlässe (1)	
Abhängigkeiten	Ebene: Ebene 0
Höhe von Ebene	0,0
Basisebene	Ebene: Ebene 0
Versatz von Host	0,0
Text	
Bemalungen	
NLS	
Systemklassifizierung	Zukunft
Systemtyp	Nicht definiert
Systemname	
Systemkategorie	
NLS - Volumenstrom	
D-Daten	
TC-Code	AIRNAMIC-R-Z-H/600
Bild	
Kommentare	
Kennzeichen	125
Phasen	
FC-Parameter	
Daten	
TC_Low_A (dB(A))	36.000000
TC_Low_A_50kg (dB(A))	38.000000
TC_Low_A_90kg (dB(A))	45.000000
TC_Octave_125_Hz (dB)	40.000000
TC_Octave_125_Hz_50kg (dB)	45.000000
TC_Octave_125_Hz_90kg (dB)	46.000000
TC_Octave_135_Hz_90kg (dB)	46.000000
TC_Octave_135_Hz (dB)	39.000000
TC_Octave_135_Hz_50kg (dB)	38.000000
TC_Octave_135_Hz_90kg (dB)	42.000000
TC_Octave_250_Hz (dB)	43.000000
TC_Octave_250_Hz_50kg (dB)	42.000000
TC_Octave_250_Hz_90kg (dB)	41.000000
TC_Octave_250_Hz (dB)	5.000000
TC_Octave_250_Hz_50kg (dB)	27.000000
TC_Octave_250_Hz_90kg (dB)	38.000000
TC_Octave_315_Hz (dB)	1.000000
TC_Octave_315_Hz_50kg (dB)	21.000000
TC_Octave_315_Hz_90kg (dB)	32.000000
TC_Octave_500_Hz (dB)	28.000000
TC_Octave_500_Hz_50kg (dB)	32.000000

\*Depending on the product, the scope of the technical data transferred varies



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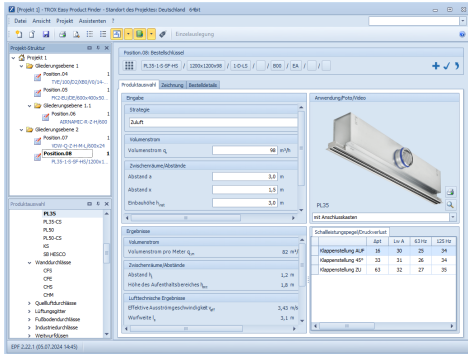
# **EPF projects as the basis for BIM data**

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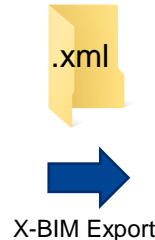
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# Use EPF project as a basis for BIM data

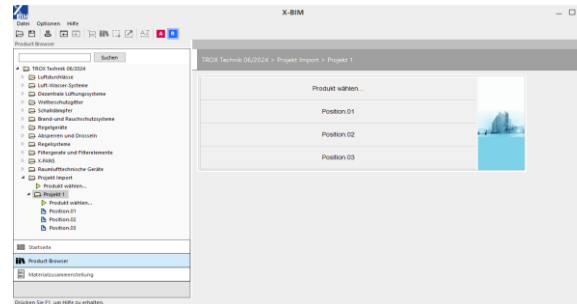
EPF project



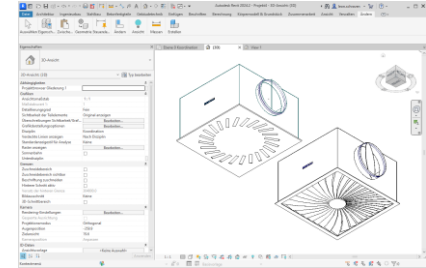
Project imported into  
X-BIM CAD Browser



X-BIM Export

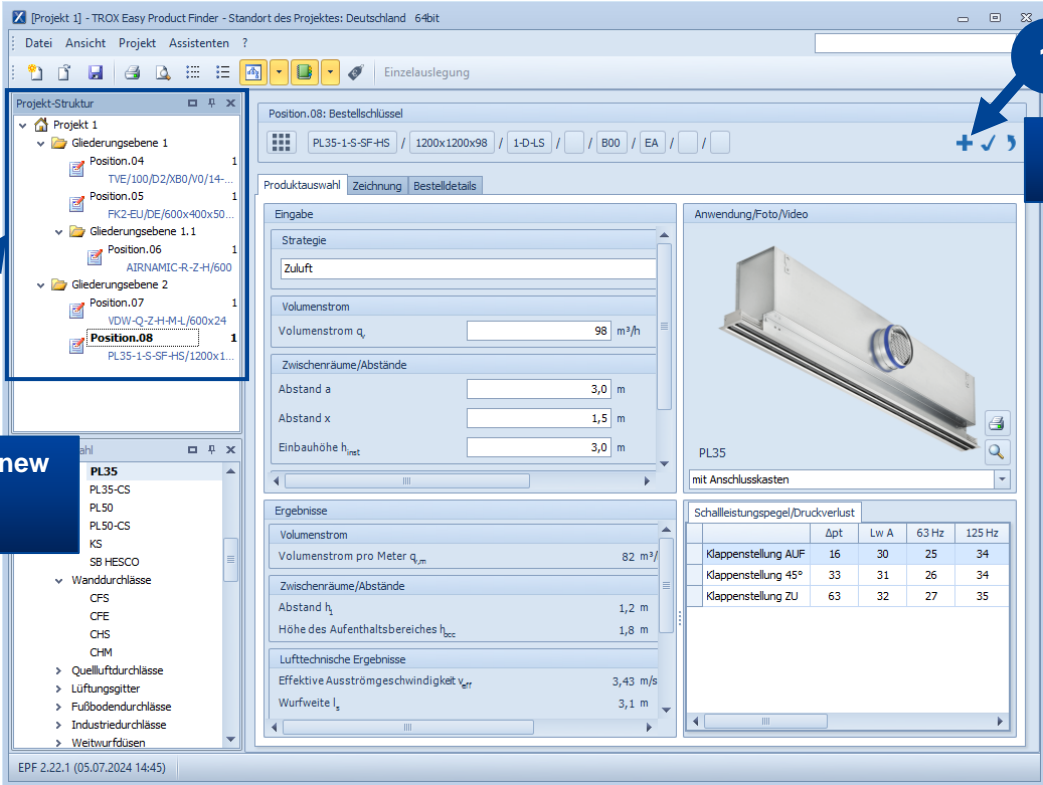


Specified products  
in design software



You can import EPF projects into the X-BIM CAD browser and thus easily use the product data of the already designed products for digital planning.

Project creation in the TROX Easy Product Finder

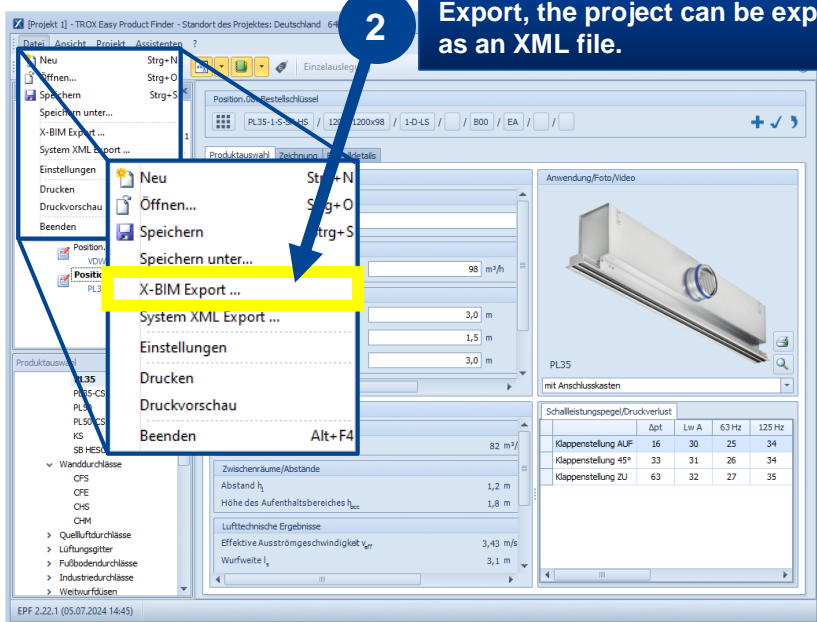


Open an existing or create a new EPF project

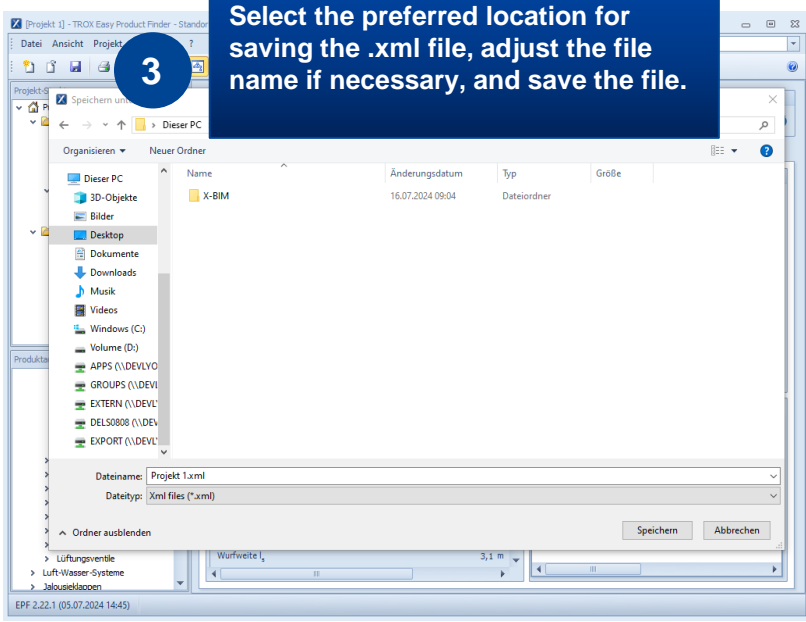
Products are added to the project via the +

## Export and save the X-BIM project file from EPF

**2** Via the menu path: File → X-BIM Export, the project can be exported as an XML file.



**3** Select the preferred location for saving the .xml file, adjust the file name if necessary, and save the file.



xml

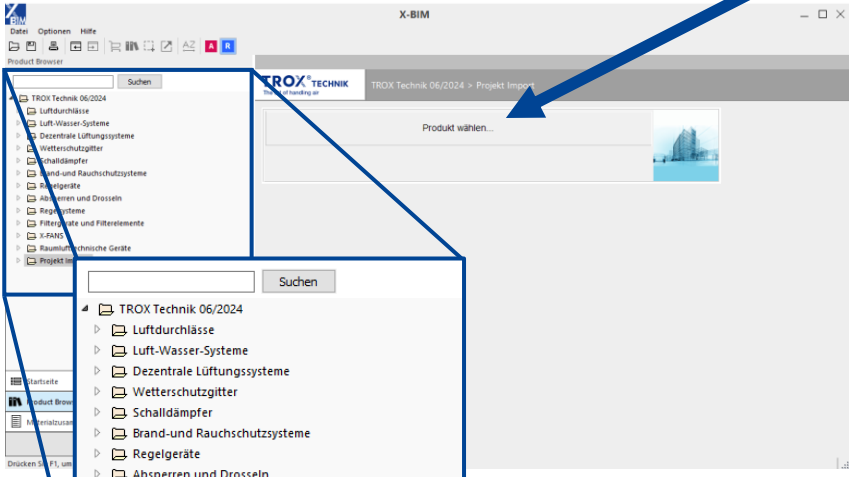
Schalleistungspegel/Druckverlust	Δpt	Lw A	63 Hz	125 Hz
Klappenstellung ALF	16	30	25	34
Klappenstellung 45°	33	31	26	34
Klappenstellung ZU	63	32	27	35

EPF 2.22.1 (05.07.2024 14:45)

# Loading the X-BIM project file into the X-BIM CAD browser

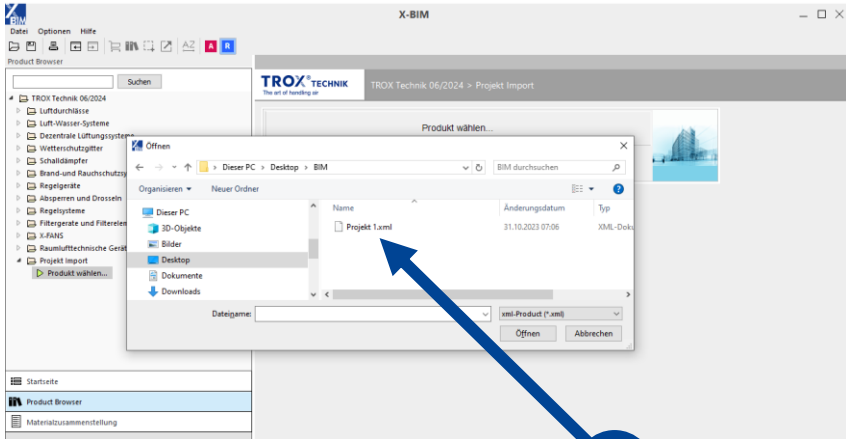
5

Press the button **Projekt oder Produkt importieren...** to open the dialogue box for selecting the project file.



4

**Projekt Import** Select in the tree structure



6

Selection of the project-specific XML file

# Overview of the project structure in the X-BIM CAD browser

After successful import, the project structure created in the EPF is displayed within the X-BIM CAD browser.

Product variants are assigned to the product groups.

The screenshot shows the X-BIM CAD browser interface. On the left is a tree view of the project structure. The main area on the right displays a table for selecting products for 'Raum 1.1'. A blue callout box with the number '7' points to the table. A search bar is visible at the top left of the browser window.

Produkt wählen...	
TVE	
FK2-EU	
Raum 1.1	

**Project Structure (Left Panel):**

- Regelsysteme
- Filtergeräte und Filterelemente
- X-FANS
- Raumlufttechnische Geräte
- Projekt Import
  - Produkt wählen...
  - Projekt 1
    - Produkt wählen...
    - Raum 1
      - Produkt wählen...
      - TVE
      - FK2-EU
      - Raum 1.1
        - Produkt wählen...
        - AIRNAMIC
      - Raum 2
        - Produkt wählen...
        - VDW
        - PL35

**Product Selection Table (Right Panel):**

- Produkt wählen...
- TVE
- FK2-EU
- Raum 1.1

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# **Configure and import TROX air handling units**

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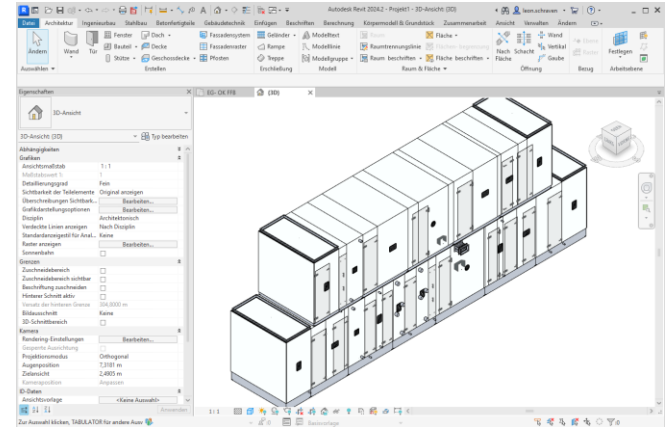
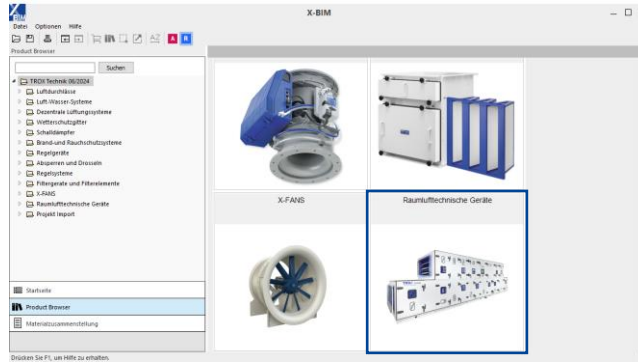
# How to create and integrate an X-BIM file for TROX air handling units

## X-CUBE air handling units

X-CUBE project file

X-BIM CAD Browser

Design software based on Revit or AutoCAD

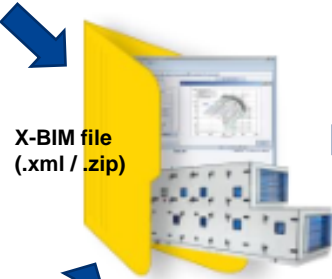


# X-CUBE air handling units

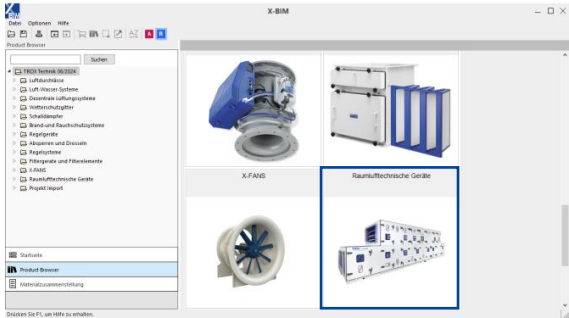
## Option 1

Online configurator AHUs

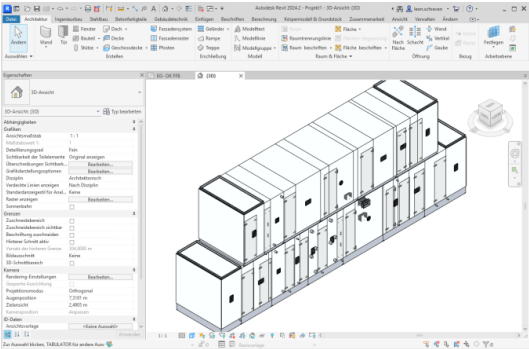
AHU can be configured independently online



## X-BIM CAD Browser



## Design software based on Revit or AutoCAD



## Option 2

TROX AHU Sales

AHU is configured by a TROX AHU sales representative

Alternatively, geometry data can be generated in DXF, DWG and IFC formats

## Online configurator for AHUs (myTROX)

1

TROX homepage under the myTROX tab, select the "Planning" field

KONTAKT HOME TROX WORLDWIDE LANDESSPEZIELL  
Warenkorb KEINE ARTIKEL myTROX ANMELDEN

PRODUKTE BRANCHENLÖSUNGEN myTROX ONLINESHOP Unternehmen

Suchbegriff hier eingeben

PLANEN BESTELLEN BETREIBEN WEITERBILDEN

myTROX  
Portal für effiziente Prozesse

Mit myTROX – Informationen per Mausklick rund um die Uhr

2

The opening page presents various product configurators, including the online configurator for AHUs. By clicking on the field you will be redirected.

KENNEN SIE BEREITS DIESE MYTROX FUNKTIONEN?

OFFER NEU!

ANGEBOTSPORTAL  
Alle Projekte im Blick. Rund um die Uhr Angebote online anzeigen und nachbestellen.

ERSATZTEILBESTELLUNG  
Benötigte Ersatzteile einfach und bequem online ausgeben und bestellen.

ONLINE FILTERKAUF  
Filter online konfigurieren und direkt bestellen.

ALLE DIGITALEN MYTROX SERVICES IM ÜBERSICHT

Planen Bestellen Betreiben Weiterbilden

Services anzeigen: Alle Planen Bestellen Betreiben Weiterbilden

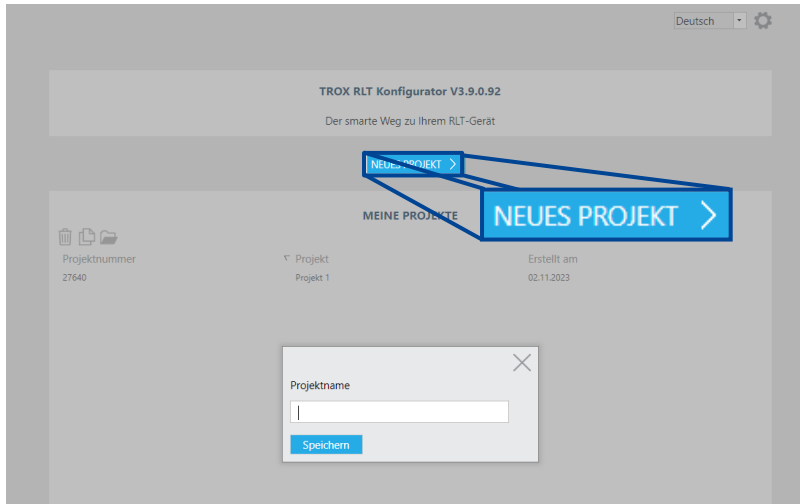
Online-Produktkonfigurator Online-Konfigurator RLT-Geräte X-FANS Produktkonfigurator EPF Download Ausgabeprogramm Easy Product Finder

A myTROX account is required to use the online AHU configurator.

## AHU configurator online

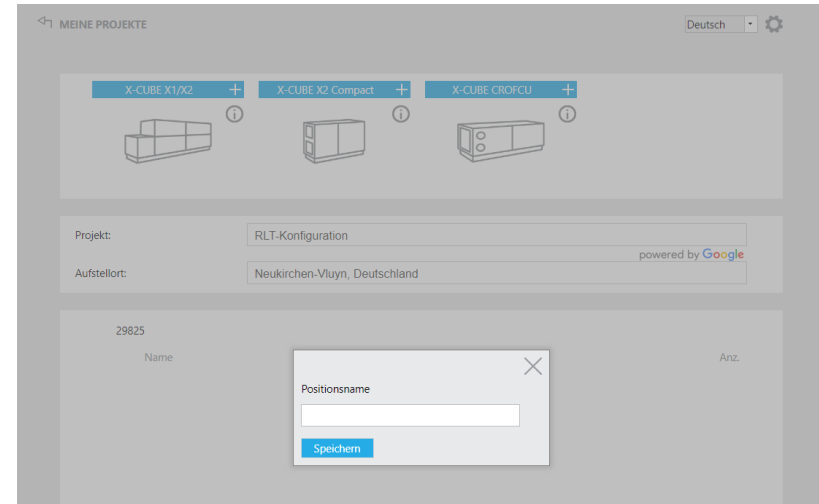
3

After logging in with the myTROX account, a project name can be assigned via the button **NEUES PROJEKT >** and a new project can be started



4

After selecting the desired X-Cube variant and assigning a position name, the individual requirements can be configured



## Online configurator for AHUs

5

The individual configuration points can now be adjusted according to the specific requirements.

After configuration, the model can be calculated.

The screenshot displays the 'Anforderungen' (Requirements) section of the AHU configurator. The interface is in German. The main content area shows three configuration categories, each with a 'Standard' option and a 'Premium' option. The 'Premium' options are selected with blue checkmarks.

Kategorie	Standard	Premium
Effizienzklasse:	Standard	Premium für minimalen Energieverbrauch
Wartung:	Standard	Premium für optimale Wartungsmöglichkeit
Gehäusequalität:	Standard	Premium für höchste Ansprüche und besten Korrosionsschutz

The left sidebar contains a list of configuration categories: Geräteart, Betriebspunkt, Anschluss, Filtern, Heizen, Kühlen, Schalldämpfung, Befeuchten, Ventilator, MSR, and Berechnen. The right sidebar contains a list of configuration categories: Anforderungen, Geräteart, Betriebspunkt, Anschluss, Filtern, Heizen, Kühlen, Schalldämpfung, Befeuchten, Ventilator, MSR, and Berechnen. The 'Berechnen' button is highlighted in blue at the bottom of the right sidebar.

## AHU configurator online

After the calculation, various files can be downloaded, including the **BIM data for the TROX X-BIM CAD BROWSER**.

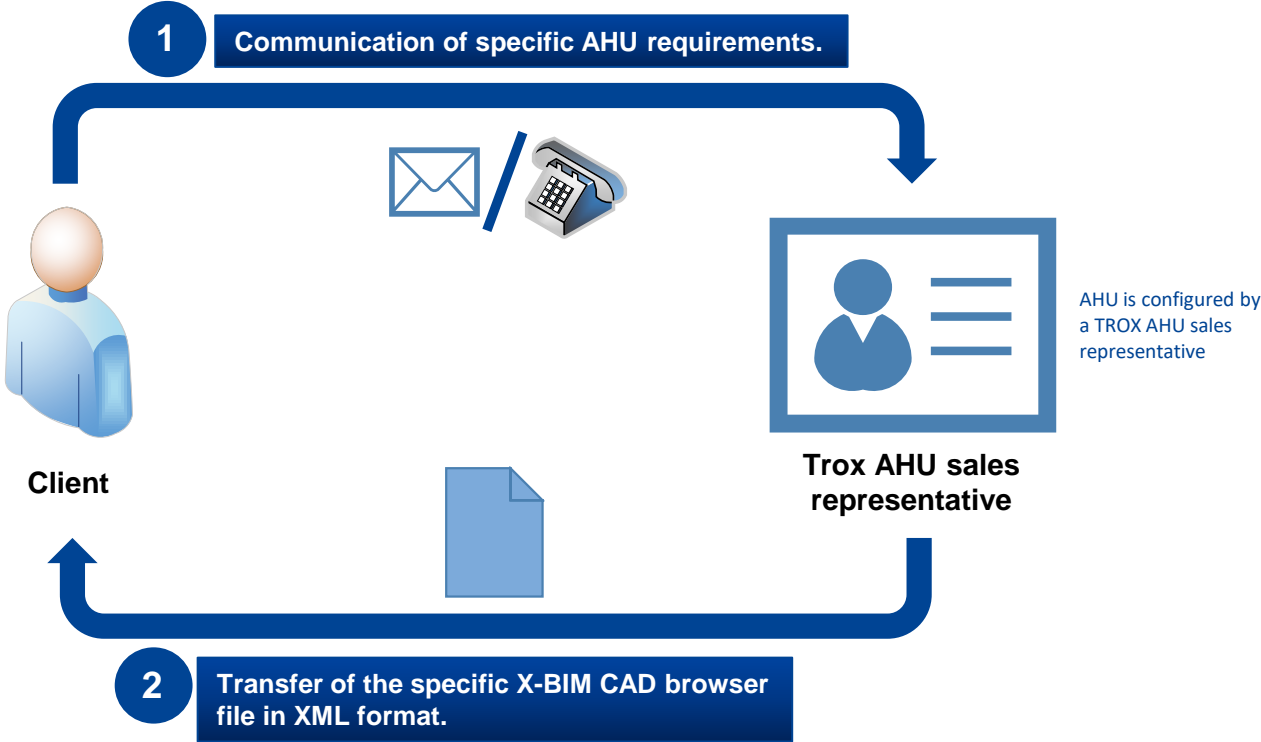
The screenshot shows the 'RLT-KONFIGURATION' interface. At the top, there is a language dropdown set to 'Deutsch' and a settings gear icon. Below this, there are input fields for 'Pos.-Nr.: 1' and 'Name:'. A blue 'BEARBEITEN >' button is positioned below the name field. A navigation bar contains 'Dokumente', 'Übersicht', and 'LCC Berechnung'. The main content area displays a thumbnail of a document. Below the thumbnail, a list of download options is shown, each with a downward arrow icon. The options are: 'Datenblatt:', 'Zeichnung:', 'MSR-Schema:', 'Ausschreibungstext:', 'BIM Daten für den TROX X-BIM CAD Browser:', and 'Gesamtpaket:'. The 'BIM Daten für den TROX X-BIM CAD Browser:' option is highlighted with an orange box, and its corresponding download icon is also highlighted with an orange box. A small 'TROX X-BIM CAD Browser' logo is visible at the bottom right of the list.

By clicking on the download icon, the various files can be saved to any location.

Download X-BIM CAD Browser file

6

# Configuring AHUs by TROX AHU sales representatives



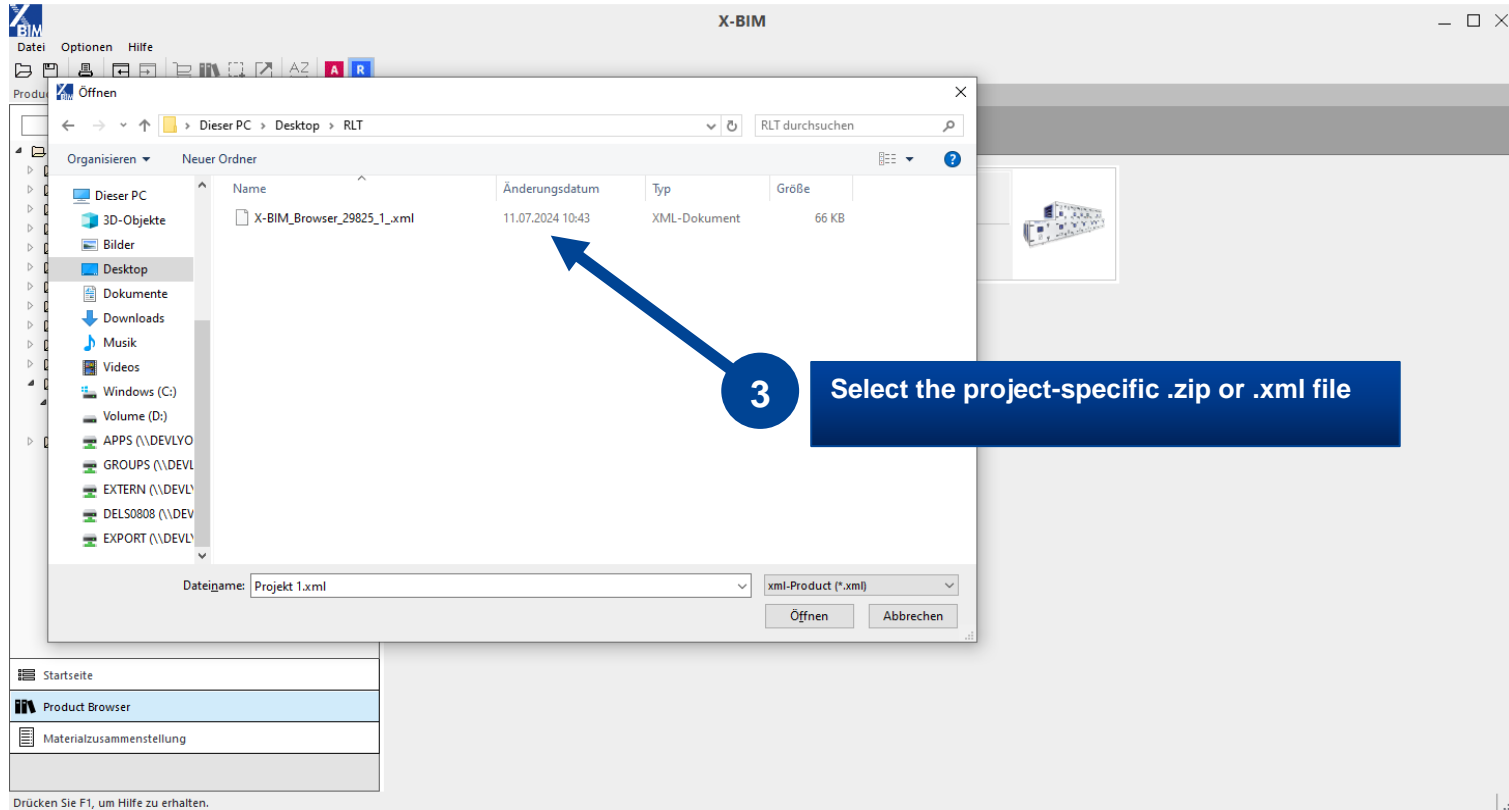
## Load X-BIM file of an AHU

The screenshot displays the X-BIM software interface. On the left, the 'Product Browser' is visible, showing a tree structure of products. The 'Raumlufotechnische Geräte' folder is expanded, and the 'X-Cube' sub-folder is highlighted with a yellow box. A blue arrow labeled '1' points to this 'X-Cube' folder. A blue callout box with the text 'Select X-CUBE in the tree structure' is positioned next to the arrow. In the main window, the breadcrumb path is 'TROX Technik 06/2024 > Raumlufotechnische Geräte > X-Cube'. Below this, there is a 'Produkt wählen...' button. A blue arrow labeled '2' points to this button. A blue callout box with the text 'Click on RLT-Gerät importieren... to open the dialogue box for selecting the X-BIM file.' is positioned next to the arrow. The interface also shows a menu bar with 'Datei', 'Optionen', and 'Hilfe', and a toolbar with various icons.

1 Select X-CUBE in the tree structure

2 Click on **RLT-Gerät importieren...** to open the dialogue box for selecting the X-BIM file.

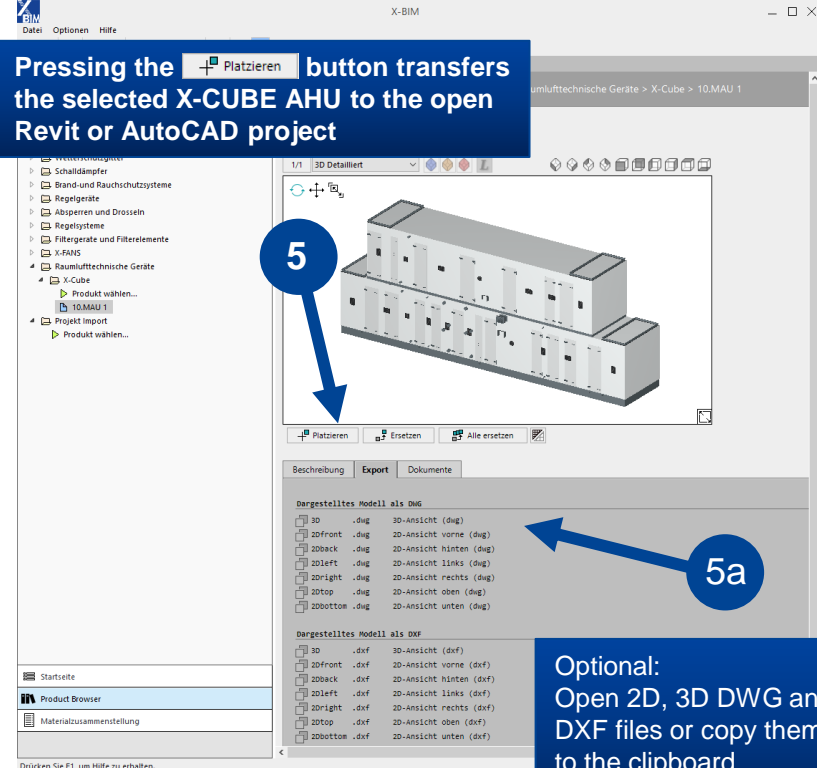
## Load X-BIM file of an AHU



# Select the imported device

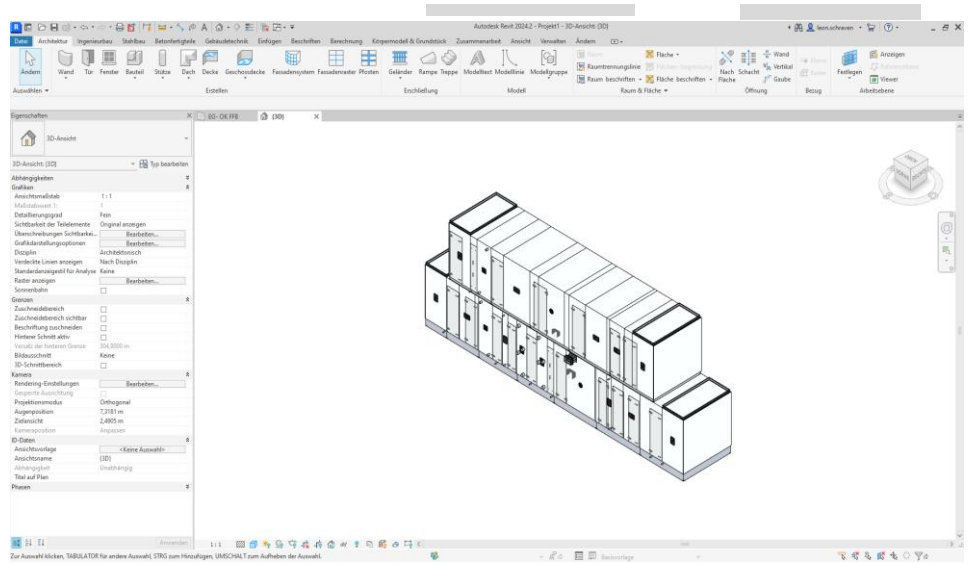
The screenshot shows the X-BIM software interface. On the left is the 'Product Browser' with a search bar and a tree view. The tree view is expanded to 'Raumlufttechnische Geräte' > 'X-Cube', where 'Produkt wählen...' and '10.' are visible. The main area shows a search bar with 'Produkt wählen...' and a list item '10.' with a small image of the X-Cube device. A blue callout box with the number '4' and the text 'Select the respective device' points to the '10.' item. The top of the window has a menu bar with 'Datei', 'Optionen', and 'Hilfe', and a toolbar with various icons. The bottom left has a footer with the text 'Drücken Sie F1, um Hilfe zu erhalten.'

# Insert into the project



Pressing the **Platzieren** button transfers the selected X-CUBE AHU to the open Revit or AutoCAD project

Optional: Open 2D, 3D DWG and DXF files or copy them to the clipboard







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# **Configure and import TROX X-FANS devices**

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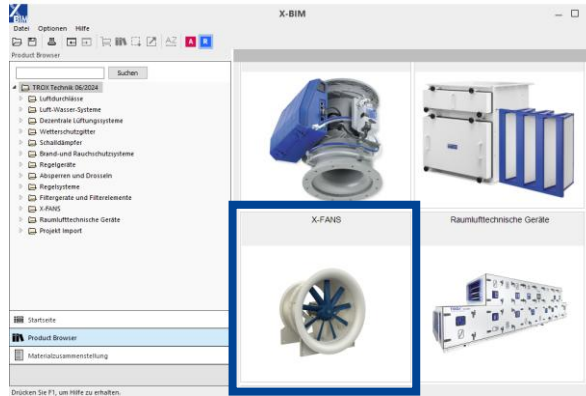
# How to create and integrate an X-BIM file for TROX X-FANS devices

## X-FANS devices

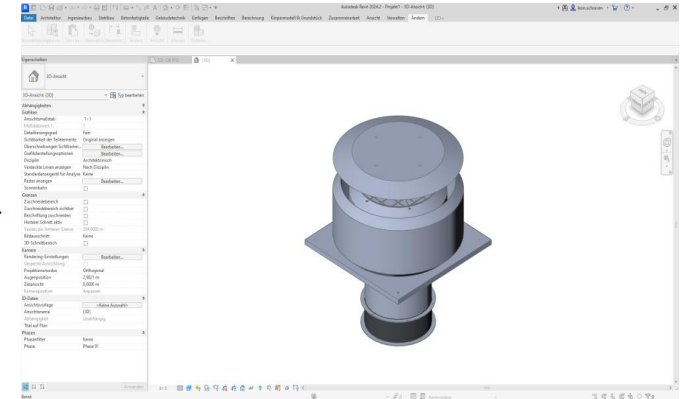
X-FAN project file



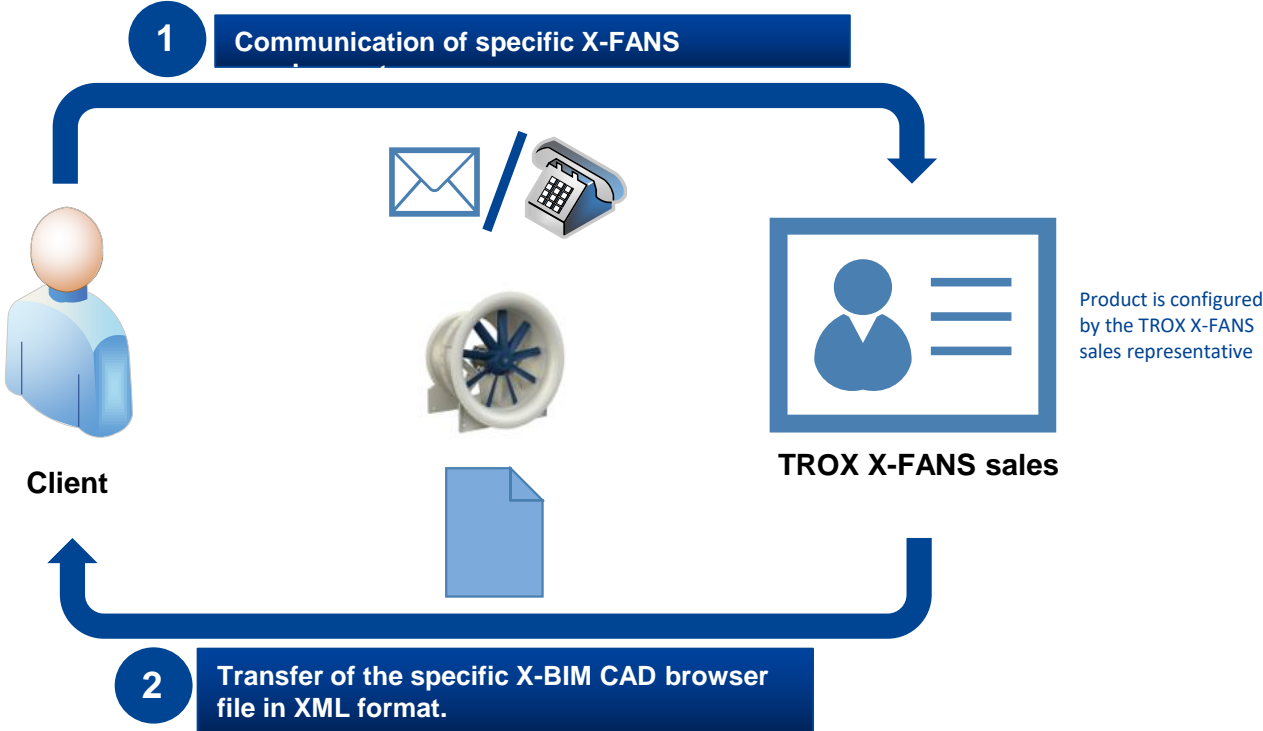
X-BIM CAD Browser



Design software based on Revit or AutoCAD



# X-FANS product configuration by the TROX X-FANS sales department



## Load X-BIM file of an X-FAN device

1

Select X-FAN in  
tree structure

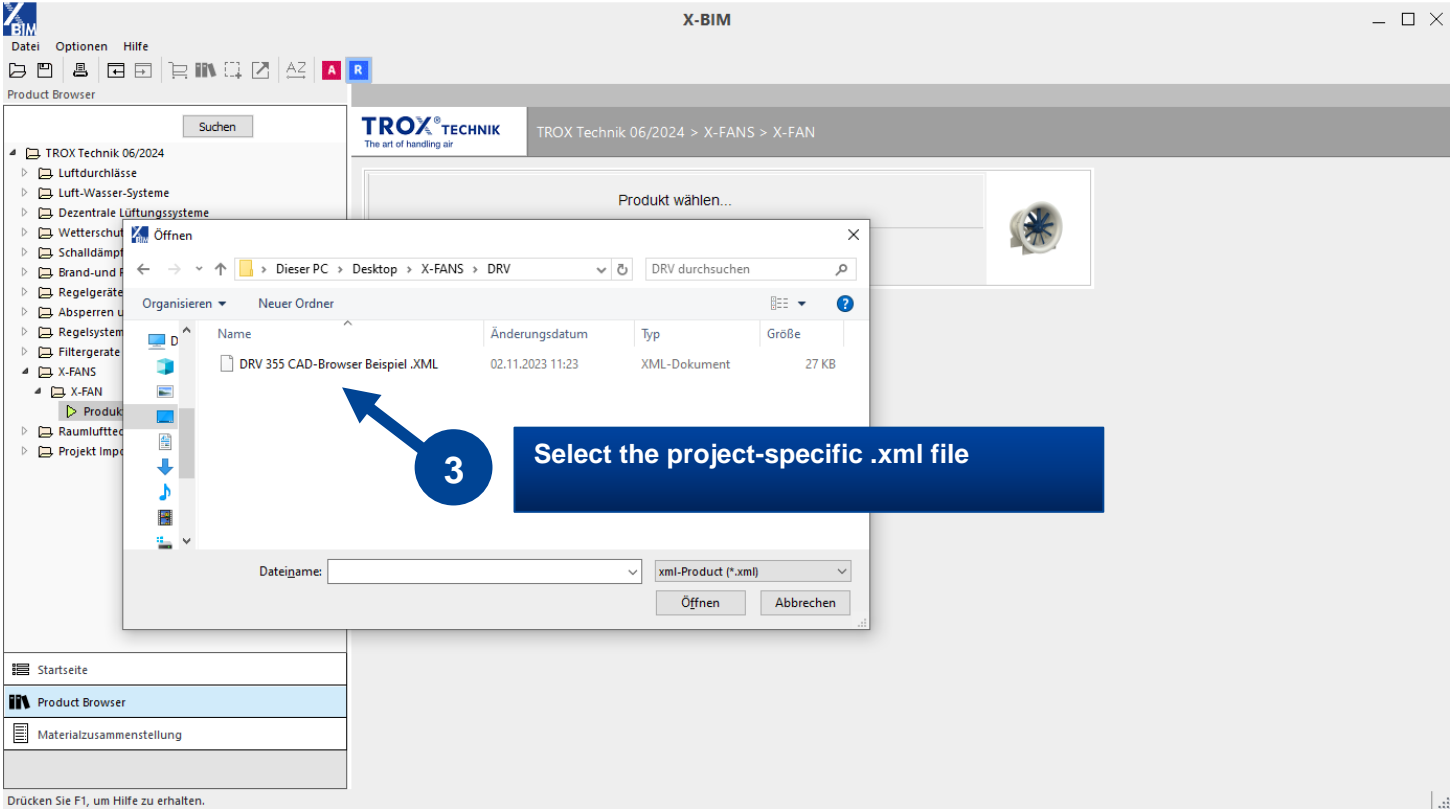
The screenshot shows the TROX BIM software interface. The main window displays the 'Product Browser' on the left, which is a tree structure of products. The 'X-FAN' category is selected and highlighted. A blue box highlights the 'X-FAN' category in the tree structure. A blue arrow points from the 'X-FAN' category to the 'X-FAN importieren...' button in the top right corner of the interface. The interface also shows the 'TROX TECHNIK' logo and the text 'The art of handling air'.

2

Pressing the button **X-FAN importieren...** opens the dialogue box for selecting the X-BIM CAD browser file.

Drücken Sie F1, um Hilfe zu erhalten.

# Load X-BIM file of an X-FAN device



## Select the imported device

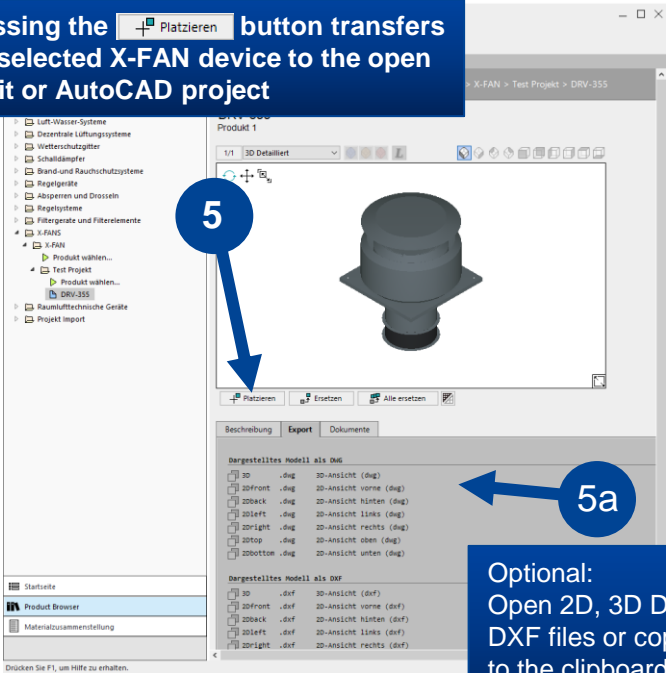
The screenshot shows the X-BIM software interface. The main window title is "X-BIM". The menu bar includes "Datei", "Optionen", and "Hilfe". The toolbar contains various icons for file operations and navigation. The "Product Browser" is open on the left, showing a tree view of the project structure. The tree view is expanded to "X-FANS" > "X-FAN" > "Test Projekt". The "Test Projekt" folder is selected. The "Product Browser" also has a search bar and a "Suchen" button. Below the tree view, there are tabs for "Startseite", "Product Browser", and "Materialzusammenstellung".

The main workspace shows the breadcrumb path: "TROX Technik 06/2024 > X-FANS > X-FAN > Test Projekt". A blue callout box with the number "4" and the text "Select the respective device" points to the "Produkt wählen..." button in the product selection dialog. The dialog shows the selected product "DRV-355" and a small image of the device.

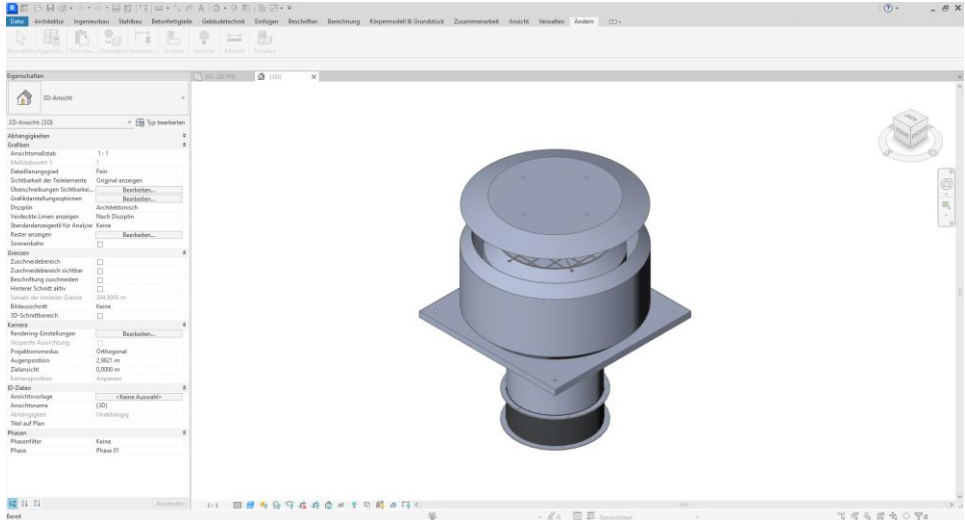
Drücken Sie F1, um Hilfe zu erhalten.

# Insert into the project

Pressing the **Platzieren** button transfers the selected X-FAN device to the open Revit or AutoCAD project



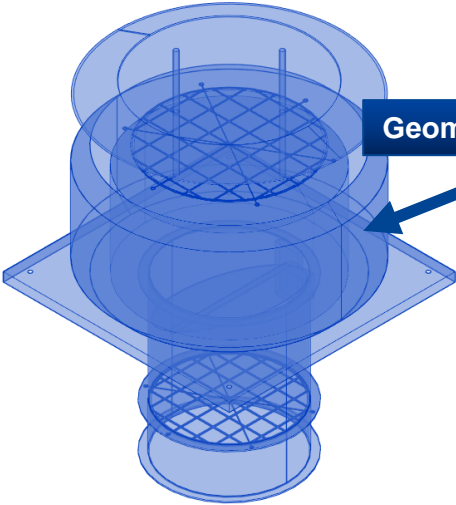
Optional:  
Open 2D, 3D DWG and DXF files or copy them to the clipboard



Available contents for Revit applications

Technical data and additional attributes

Typenparameter	Parameter	Wert
<b>Abhängigkeiten</b>		
	Vorgabe-Ansicht	0,0000 m
<b>HLS</b>		
<b>ID-Daten</b>		
	Typenbild	
	Bauelement	
	Modell	Produkt 1
	Hersteller	TROX Technik (DEU)
	Typenkommentare	
	URL	
	Beschreibung	DRV-355
	Baugruppenkennzeichen	
	Kosten	
	Baugruppenbeschreibung	
	Typenmarkierung	
	OmniClass-Nummer	23.75.00.00
	OmniClass-Titel	Climate Control (HVAC)
	Codename	
<b>IFC-Parameter</b>		
	Typ Vordefinierter IFC-Typ	
	Typ in IFC exportieren als	
	Typ in IFC-Datei exportieren	Vorgabe
	Typ IFC:GUID	0UGKD1L167e7D98mS7GFX



Geometry and connections



## **More information**

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## Further programme information

The X-BIM CAD Browser is based on a CAD browser product from LINEAR GmbH. Further programme details are described in the manual. Some functions may deviate from the descriptions in the manual due to technical programme adjustments.

