




CADprofi 2024.13

✓ CADprofi – numerar

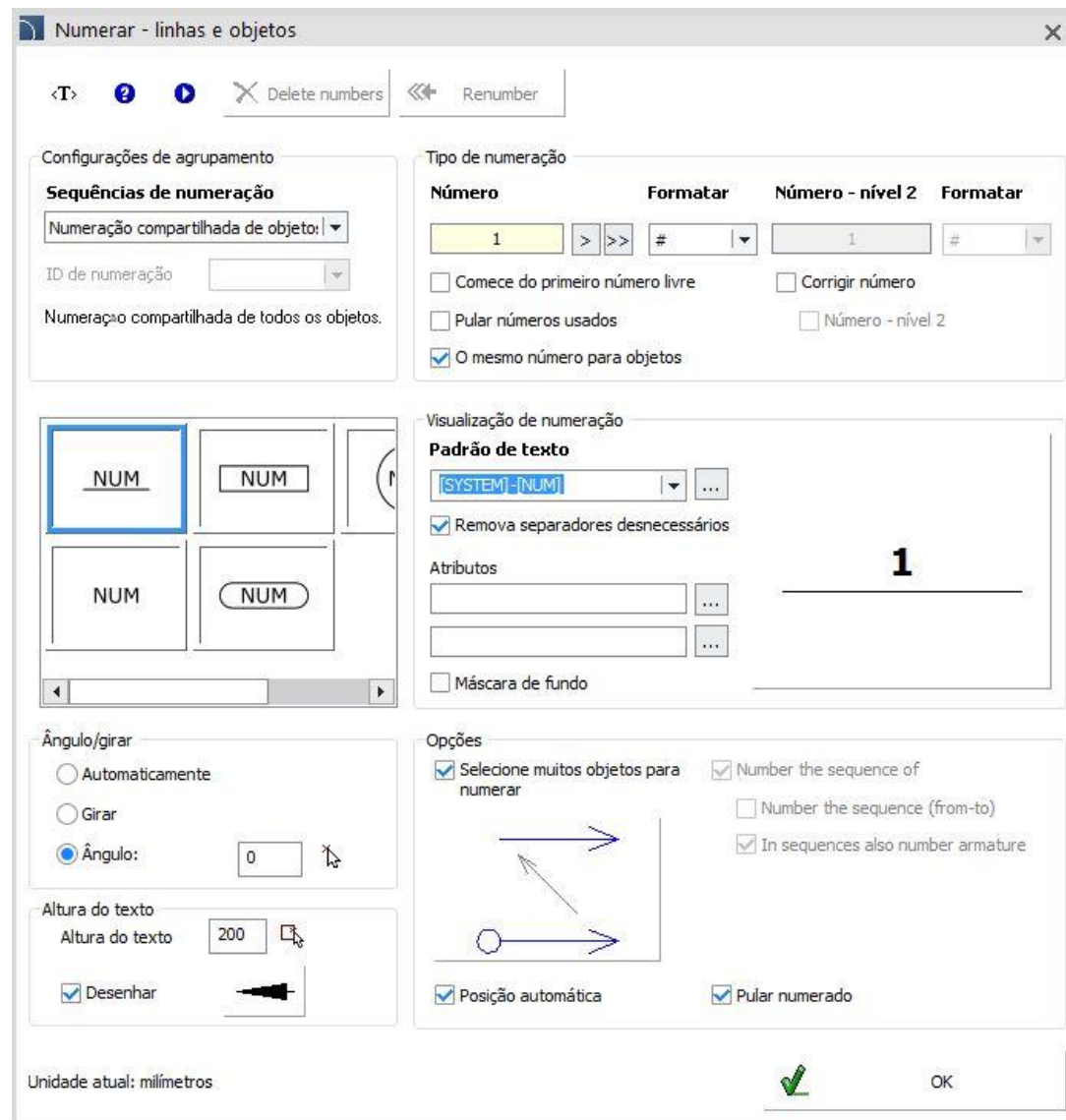
Na última versão do programa CADprofi o comando **Numerar**  foi ampliado.

Atualmente o programa nos permite realizar a renumeração, inclusive:

- mover os números em sequências de numeração,
- remover as lacunas na numeração,
- remoção de toda a sequência de numeração,
- renumeração geométrica,
- modificação do formato do número.

Além disso, as seguintes opções foram adicionadas ao comando:

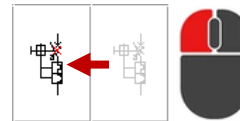
- formatação dos números adicionando os zeros à frente,
- numeração das sequências de tubulações/canais/bandejas de cabos,
- correção dos objetos copiados numerados por sua renumeração.



✓ CADprofi – novas melhorias no criador de esquemas

No criador de esquemas elétricos e nas bibliotecas que contêm cálculos de aquecimento central com estações descentralizadas de preparação de água quente doméstica (Uponor, Strawa e outras), foi adicionada a capacidade de editar esquemas usando a técnica de “arrastar e soltar”. Graças a isso, é possível mover, copiar ou trocar símbolos de forma conveniente usando o mouse.

Ao manter o botão esquerdo do mouse pressionado sobre um símbolo, o usuário pode arrastá-lo para um novo local.



Manter o botão esquerdo do mouse pressionado com a tecla **Ctrl** permite que o usuário copie o símbolo para um novo local.



Manter o botão esquerdo do mouse pressionado com a tecla **Shift** permite que o usuário troque os símbolos.



Além disso, dois novos atalhos de teclado foram introduzidos no criador de esquemas:

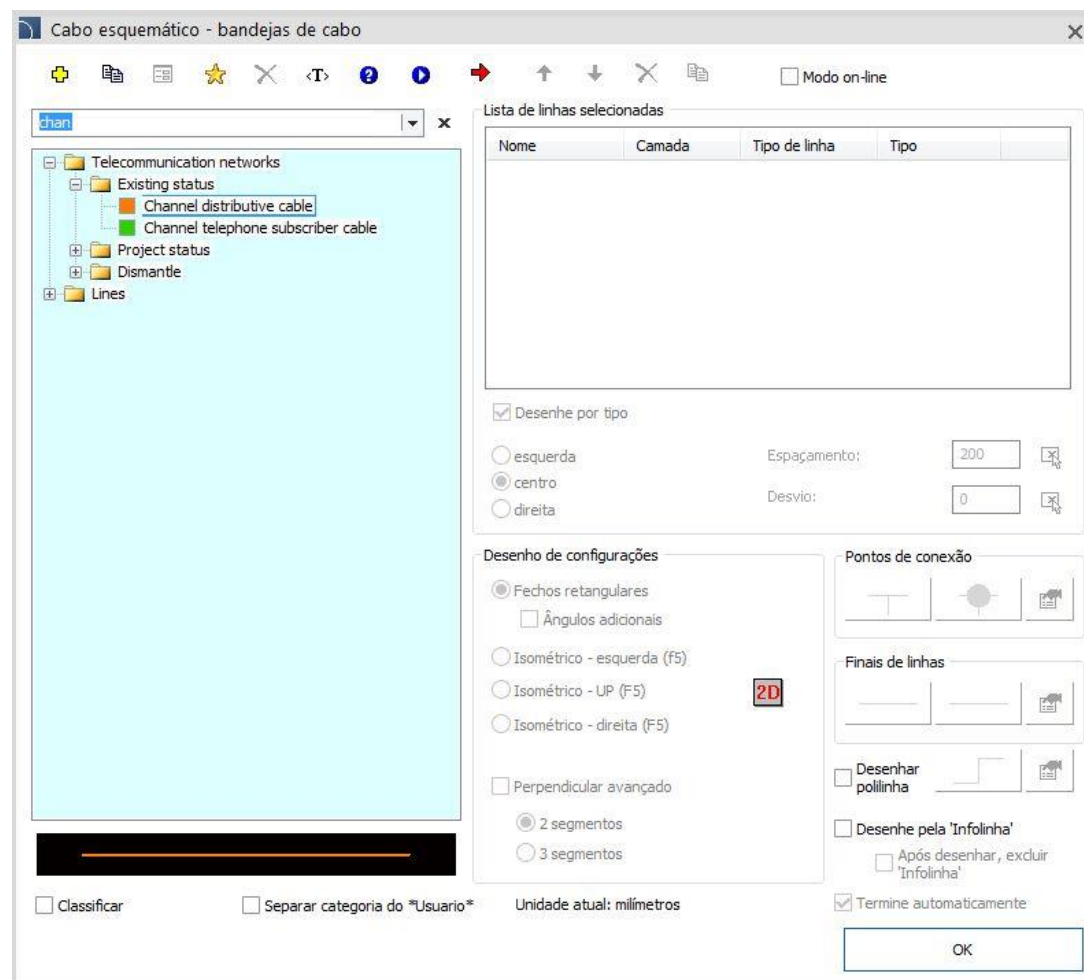
- **Ctrl + Z** (desfazer a última operação).
- **Ctrl + Y** (repetir a última operação).

✓ CADprofi – pesquisa aprimorada (preenchimento automático)

Na versão mais recente do programa CADprofi, foi implementada a pesquisa aprimorada dos objetos nas caixas de diálogo. Agora, o programa indica os nomes dos elementos incluídos no banco de dados durante a digitação do texto.

Essa nova opção está disponível nos seguintes comandos:

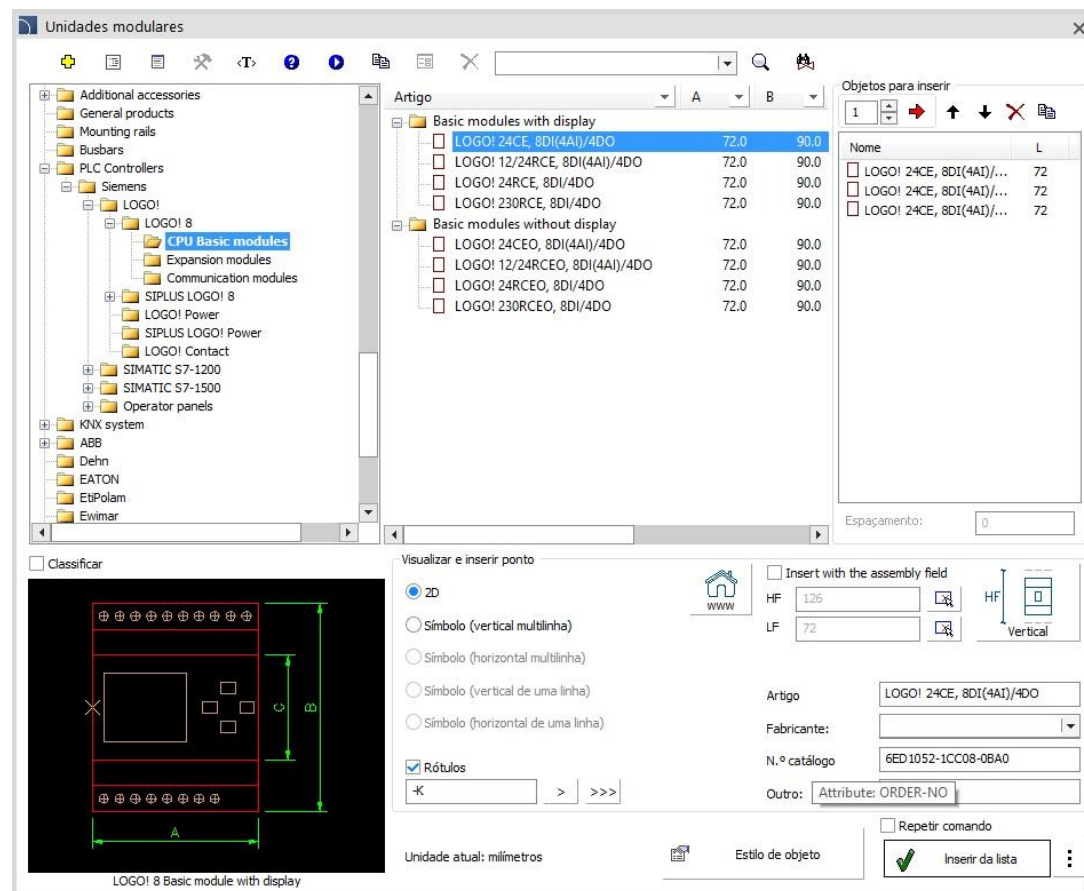
- Tubos - esquema,
- Paredes,
- Símbolos.



✓ CADprofi – Dicas de ferramenta em quadros de diálogo

As janelas de diálogo do programa CADprofi permitem que o usuário exiba dicas de ferramenta sobre como escrever/ler dados no objeto, por exemplo, como um Atributo, Parâmetros do usuário, etc. Graças a isso, ao preencher os dados e criar especificações, o usuário pode identificar mais facilmente sua origem.

Artigo	LOGO! 24CE, 8DI(4AI)/4DO
Attribute: ARTICLE	Siemens
N.º catálogo	6ED1052-1CC08-0BA0
Outro:	



The screenshot displays the 'Unidades modulares' (Modular Units) window. On the left, a tree view shows the hierarchy of Siemens LOGO! modules, with 'CPU Basic modules' selected. The main area shows a list of modules with columns for 'Artigo', 'L', and 'L'. The 'Objetos para inserir' (Objects to insert) panel on the right shows a table of available modules:

Nome	L
LOGO! 24CE, 8DI(4AI)/...	72
LOGO! 24CE, 8DI(4AI)/...	72
LOGO! 24CE, 8DI(4AI)/...	72

The bottom panel, 'Visualizar e inserir ponto' (View and insert point), is active. It shows options for 2D visualization and insertion. The 'Rótulos' (Labels) checkbox is checked. The 'Artigo' field is populated with 'LOGO! 24CE, 8DI(4AI)/4DO', and the 'N.º catálogo' field is '6ED1052-1CC08-0BA0'. The 'Outro' field contains 'Attribute: ORDER-NO'. The 'Estilo de objeto' (Object style) is set to 'Inserir da lista' (Insert from list).

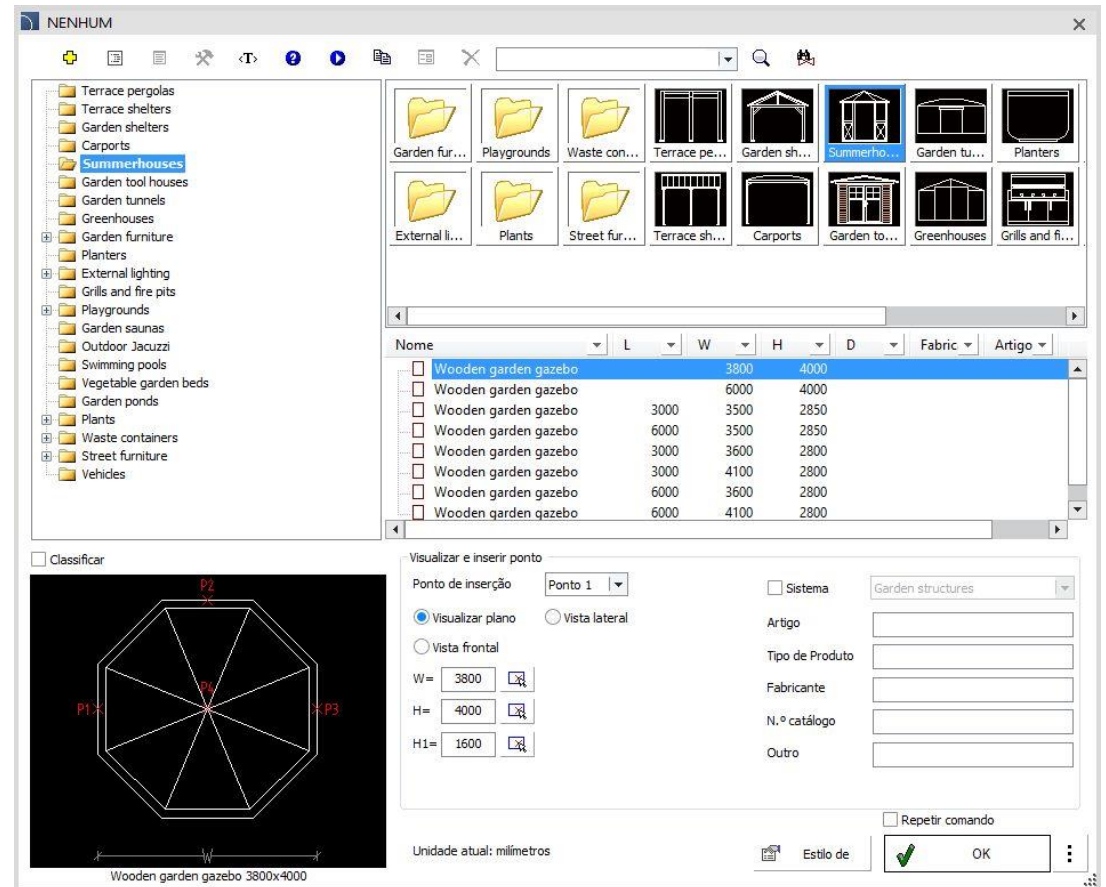
✓ CADprofi Architectural – “Arquitetura externa”

O módulo Architectural do programa CADprofi foi ampliado com o novo comando **Arquitetura externa**


. Esse comando inclui:

- Pérgulas de terraço.
- Toldo para terraço, toldo para jardim e toldos para garagem.
- Gazebos de jardim, casas de jardim para ferramentas.
- Túneis e estufas de jardim.
- Móveis de jardim (assentos, sofás, mesas, conjuntos de móveis de jardim).
- Vasos de flores.
- Iluminação externa (lâmpadas de jardim, lâmpadas de parede externa, lanternas).
- Grelhas e fornos.
- Parques infantis (conjuntos, casas para crianças, balanços, escorregadores, playgrounds, equipamentos esportivos).
- Saunas de jardim, jacuzzi externa.
- Jardineiras, lagos.
- Pequena arquitetura (lixeiras, bancos, quadro de informações, pilares de informações, bicicletários)

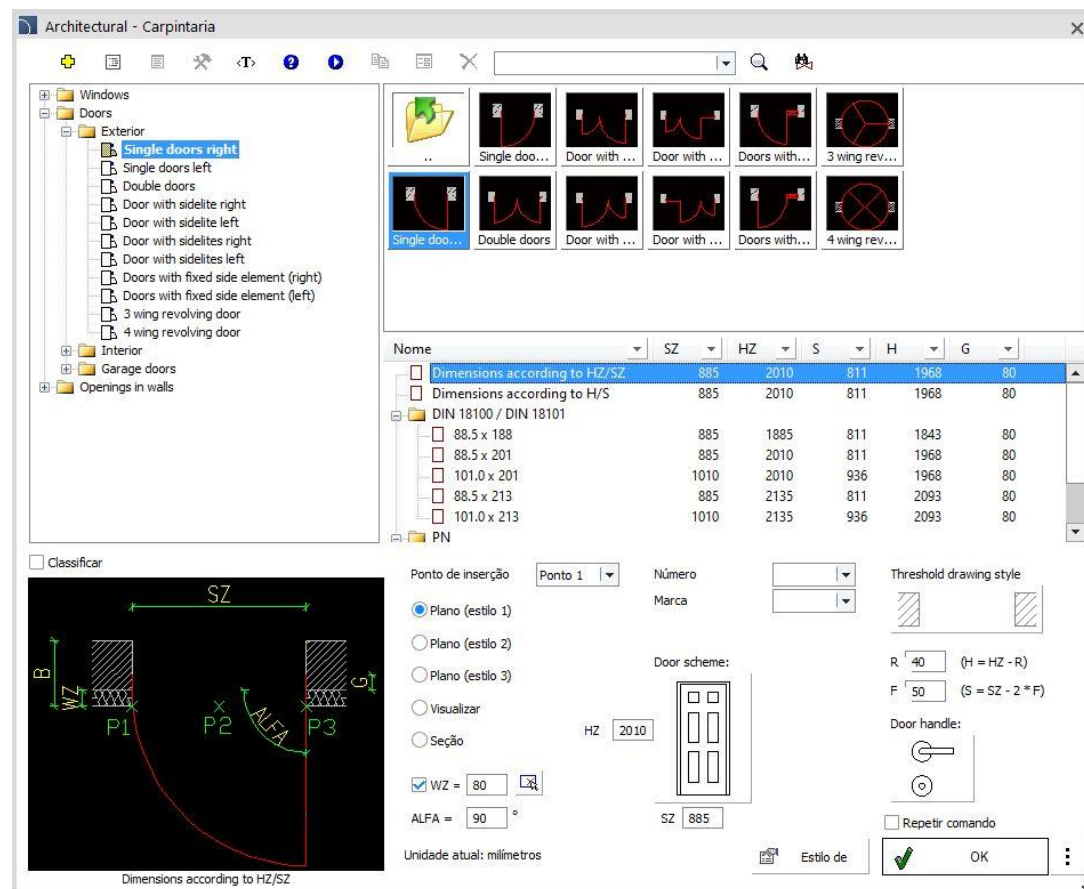
Além disso, elementos de outros comandos, por exemplo: piscinas, plantas, contêineres para lixo, veículos, foram movidos para esse comando.



✓ CADprofi Architectural – ampliação do comando “Carpintaria”

O comando **Carpintaria**  foi ampliado com os seguintes novos recursos:

- Possibilidade de determinar a distância da moldura da porta em relação à borda da parede. Isso permite que a porta seja montada adequadamente, por exemplo, em paredes com uma camada de isolamento externo.
- O ângulo de abertura da porta.



Nome	SZ	HZ	S	H	G
Dimensions according to HZ/SZ	885	2010	811	1968	80
Dimensions according to H/S	885	2010	811	1968	80
DIN 18100 / DIN 18101					
88.5 x 188	885	1885	811	1843	80
88.5 x 201	885	2010	811	1968	80
101.0 x 201	1010	2010	936	1968	80
88.5 x 213	885	2135	811	2093	80
101.0 x 213	1010	2135	936	2093	80
PN					

Classificar

Ponto de inserção: Ponto 1

Número: []

Marca: []

Door scheme: []

Door handle: []

Repetir comando:


Unidade atual: milímetros

OK

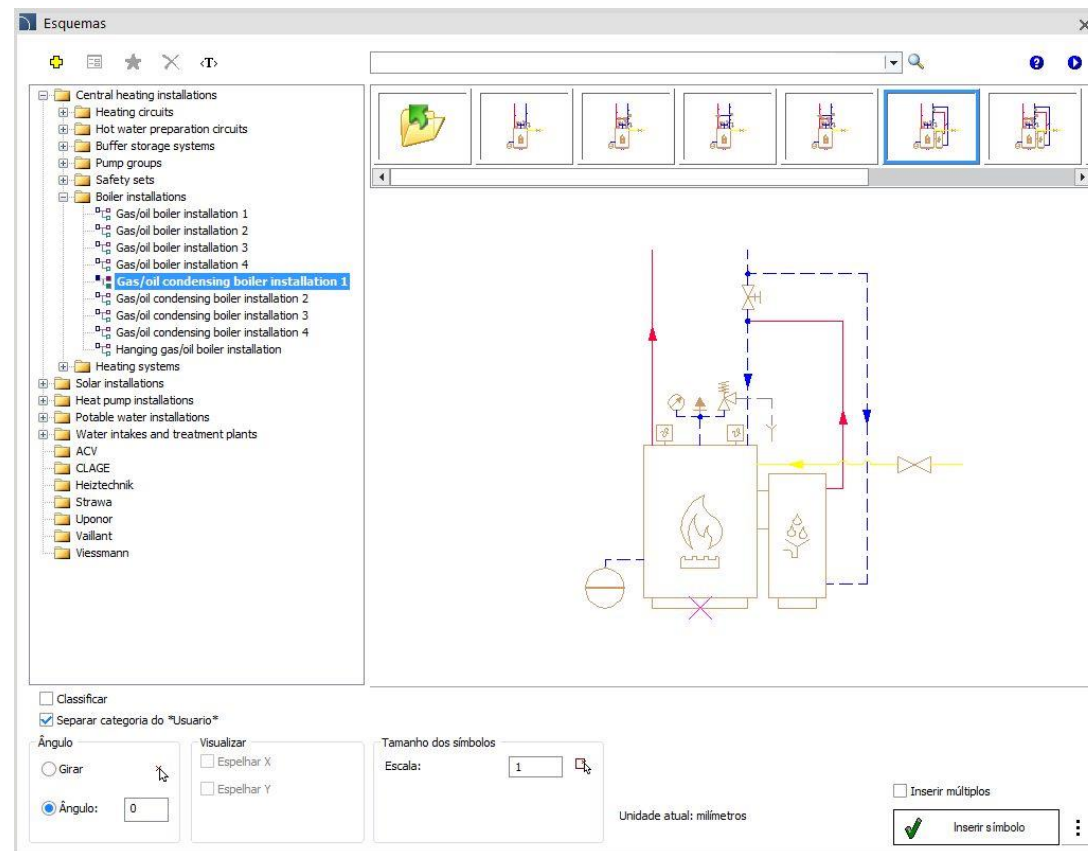
Diagram labels: B, WZ, SZ, G, ALFA, P1, P2, P3

Dimensions according to HZ/SZ

✓ CADprofi HVAC & Piping – ampliação do comando “Esquemas”

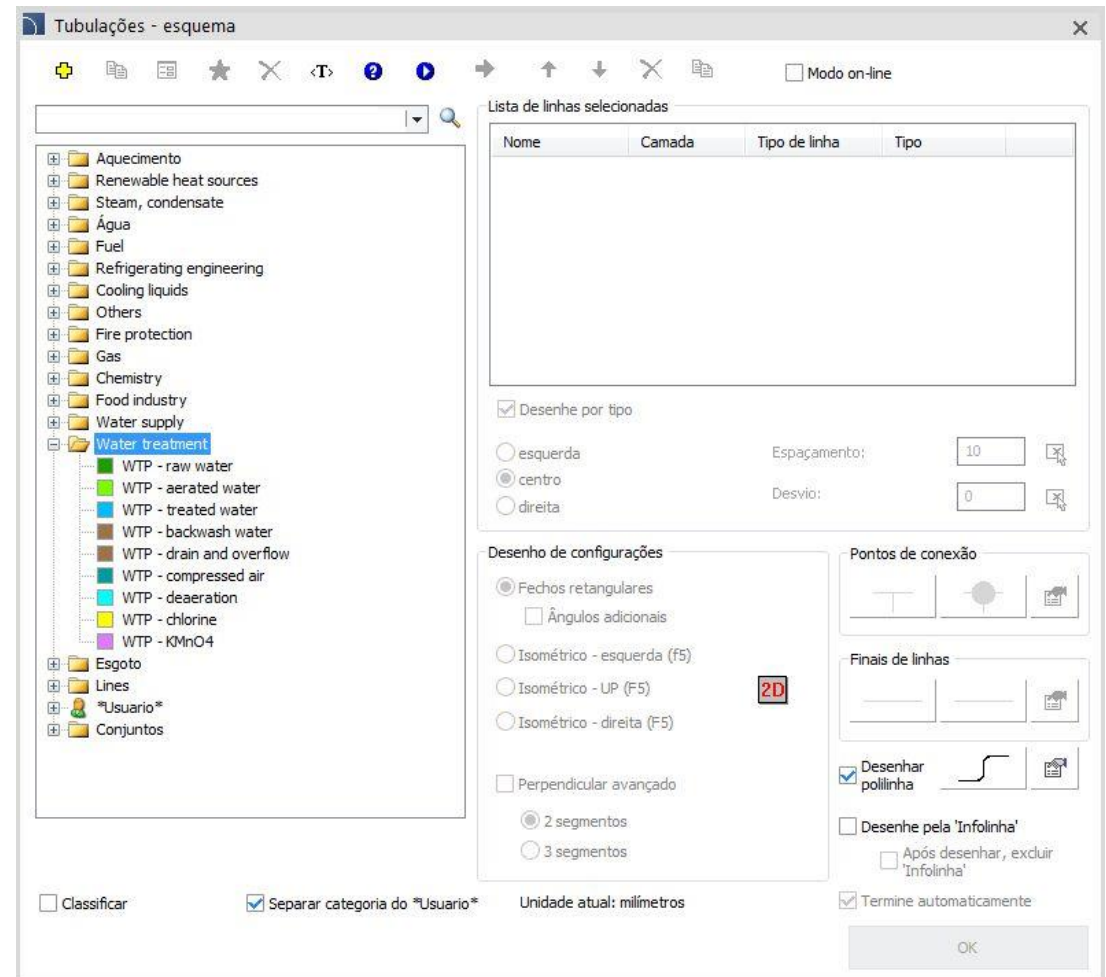
O comando **Esquemas**  foi ampliado com sistemas de instalação adicionais, incluindo:

- circuitos de preparação da água quente doméstica
- sistemas de tanques buffer.
- grupos de bombas.
- grupos de segurança.
- conexões das caldeiras.
- salas de caldeiras
- instalações solares.
- instalações com bomba de calor.
- instalações de água potável
- entradas de água e estações de tratamento de água - componentes de instalações tecnológicas e projetos exemplares totalmente preparados das entradas e estações de tratamento de água.



✓ CADprofi HVAC & Piping – ampliação do comando “Tubulações – esquema”

O comando **Tubulações – esquema** foi ampliado com uma nova categoria de tubulações - tratamento de água.



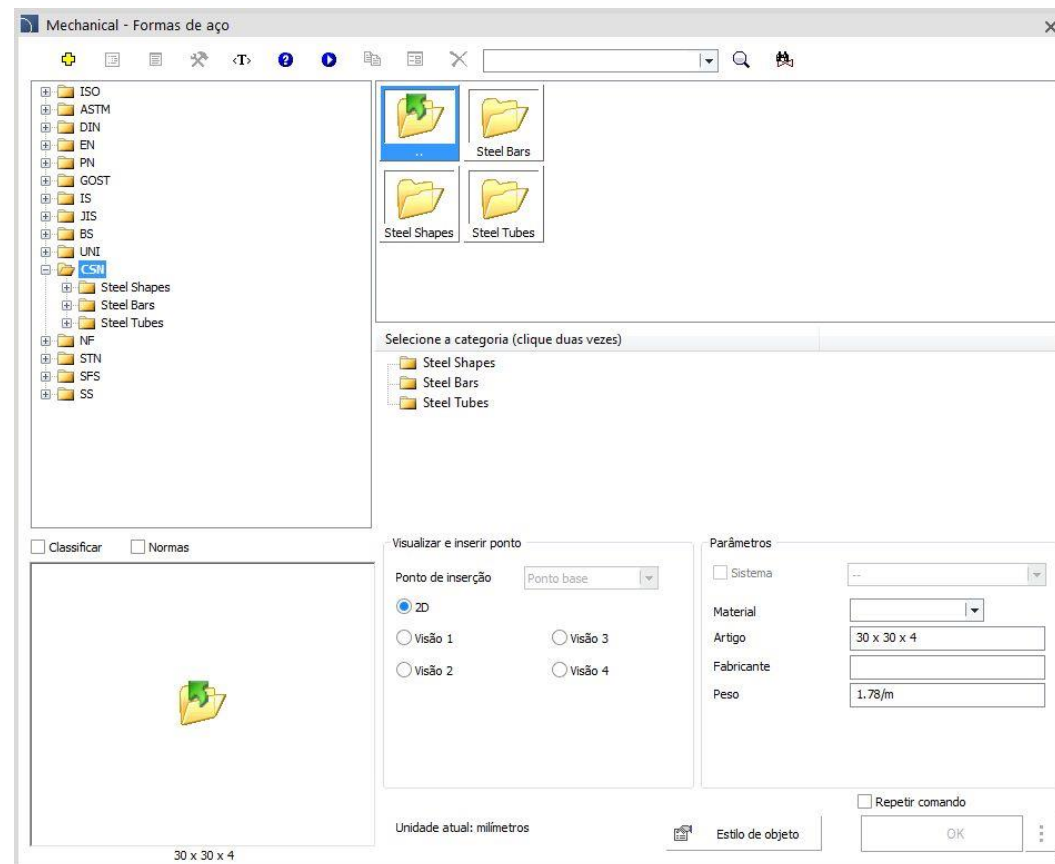
✓ CADprofi Mechanical – inclusão de novas normas nacionais

Os comandos **Formas de aço** e **Peças padronizadas** foram ampliados com produtos preparados de acordo com as seguintes normas nacionais:

- Normas tchecas (CSN)
- Normas eslovacas (STN)
- Normas francesas (NF)
- Normas suecas (SS)
- Normas finlandesas (SFS)
- Normas italianas (UNI - 5739, 5737, 5931, 5933, 5923, 5925, 5927, 5929, 5588, 5589, 5587, 1751, 6592, 1750, 6598, 1336, 7435, 7437, 7663)

Os padrões nacionais acima foram implementados para os seguintes elementos:

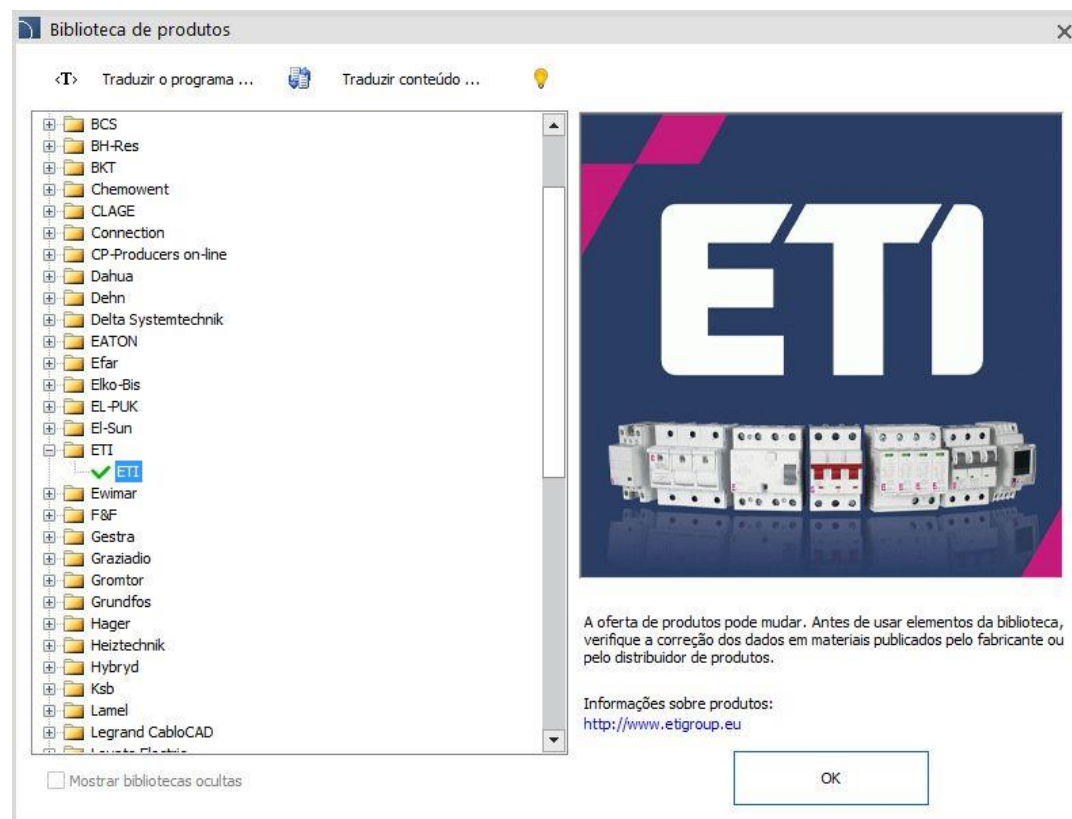
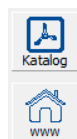
- parafusos,
- porcas,
- furos para passagem de parafusos,
- furos roscados,
- parafusos pequenos,
- pinos,
- grampos,
- seções de aço,
- hastes e tubos de aço.



✓ CADprofi OEM – ampliação da biblioteca ETI

A biblioteca de produtos da ETI foi atualizada e ampliada com novos produtos na área de equipamentos de baixa tensão e comutadores.

Além disso, a janela de diálogo da seleção de produtos foi ampliada com a capacidade de acessar rapidamente o catálogo em PDF e o site do fabricante com as informações do produto.

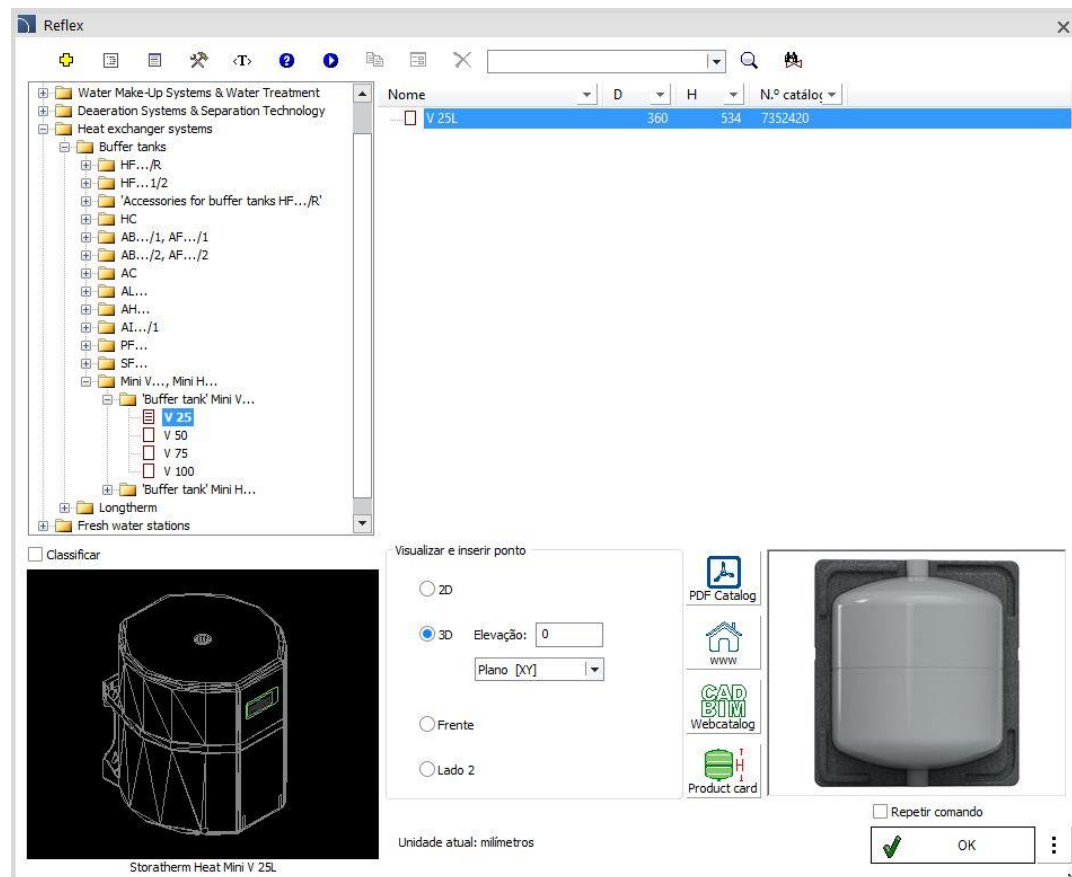


✓ CADprofi OEM – ampliação da biblioteca Reflex

A biblioteca Reflex foi ampliada com novos tipos de séries para os seguintes produtos:

- tanques buffer Mini V..., Mini H...,
- acessórios para a estação de preparação de água quente doméstica Hydroflow,
- sistemas de estabilização de pressão da série Reflexomat RS,

Além disso, o grupo de tanques buffer da série HW foi atualizado.





CADprofi

✓ Ajuste a muitos programas CAD

O programa CADprofi versão 2024.13 foi ajustado para funcionar com os programas CAD mais recentes, incluindo: AViCAD 2025, CADdirect 2025, CADian 2024 12.1, GstarCAD 2025, INTERsoft-INTELLICAD 2024.

Atualmente, o programa CADprofi 2024 funciona com muitos programas CAD, incluindo: AutoCAD (desde a versão 2004), BricsCAD, GstarCAD, progeCAD, ZWCAD, ARES Commander.

The logo for AutoCAD, with the word "AutoCAD" in a bold, red, sans-serif font.

The logo for ZWCAD, with the word "ZWCAD" in a bold, blue, sans-serif font. The "W" has a green leaf-like shape above it.

The logo for GstarCAD, with "Gstar" in blue and "CAD" in yellow, followed by the tagline "An Alternative CAD System" in blue.

The logo for BricsCAD, featuring a stylized blue "B" shape above the word "BRICSCAD" in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow "I" shape inside, above the word "progeSOFT" in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow "I" shape inside, above the word "IntelliCAD" in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red, flame-like graphic on the left, the word "Gräbert" in a small font above "ARES", and "Commander" in a large, bold, black font.



CADprofi



CADprofi 2024.07/09

✓ CADprofi OEM – dynamic determination of the protection zone for masts

Dynamic determination of lightning protection areas for a multi-mast system using the rolling ball method for four LPS protection classes has been introduced to the EI-Sun library that is available in the CADprofi program.

Program allows to:

- designation and visualization of the protection zone at given heights;
- ability to designate several 'isolines' for different heights of the protection zone with the option of hatching protection areas;
- determining the top penetration for masts in side view;
- taking into account different heights of masts and their installation height;
- automatic update of protection zones when moving, deleting or copying masts;
- automatic calculation of the optimal distance between masts for the **Arrange** function.

View and insertion point

2D Top

2D Side

Height of protection zone (h₀): [m]

Height of protection zone (h₁): [m]

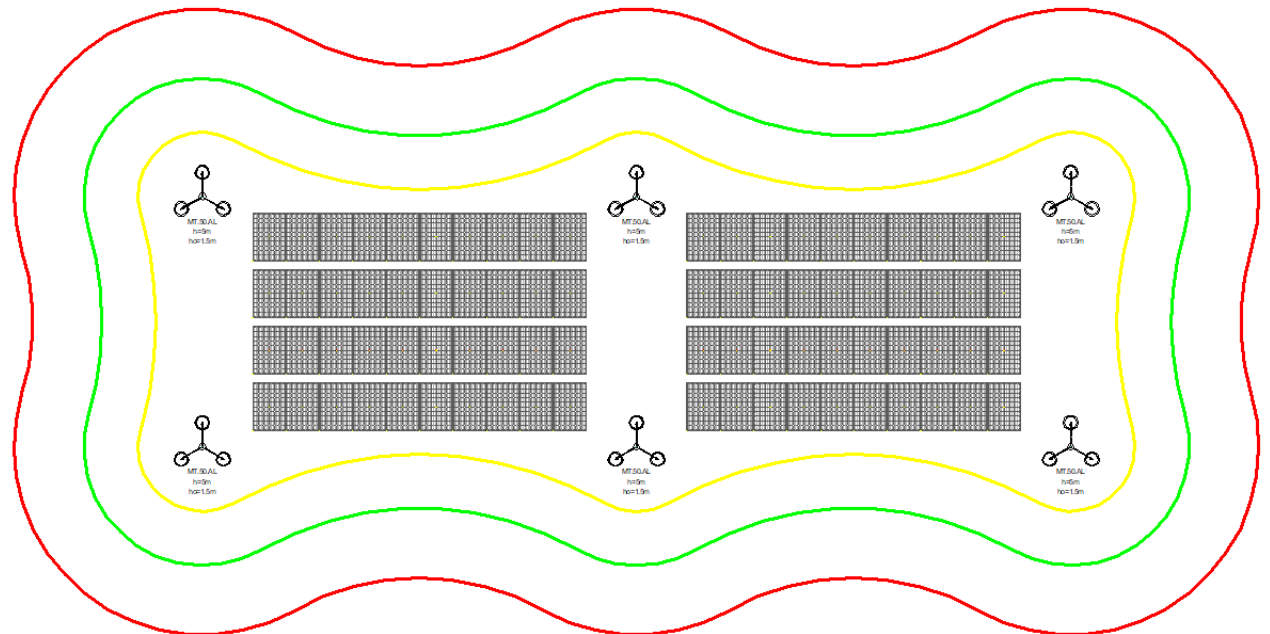
Height of protection zone (h₂): [m]

Reference height: [m]

Protection class:

Text height:

Dimensioning:



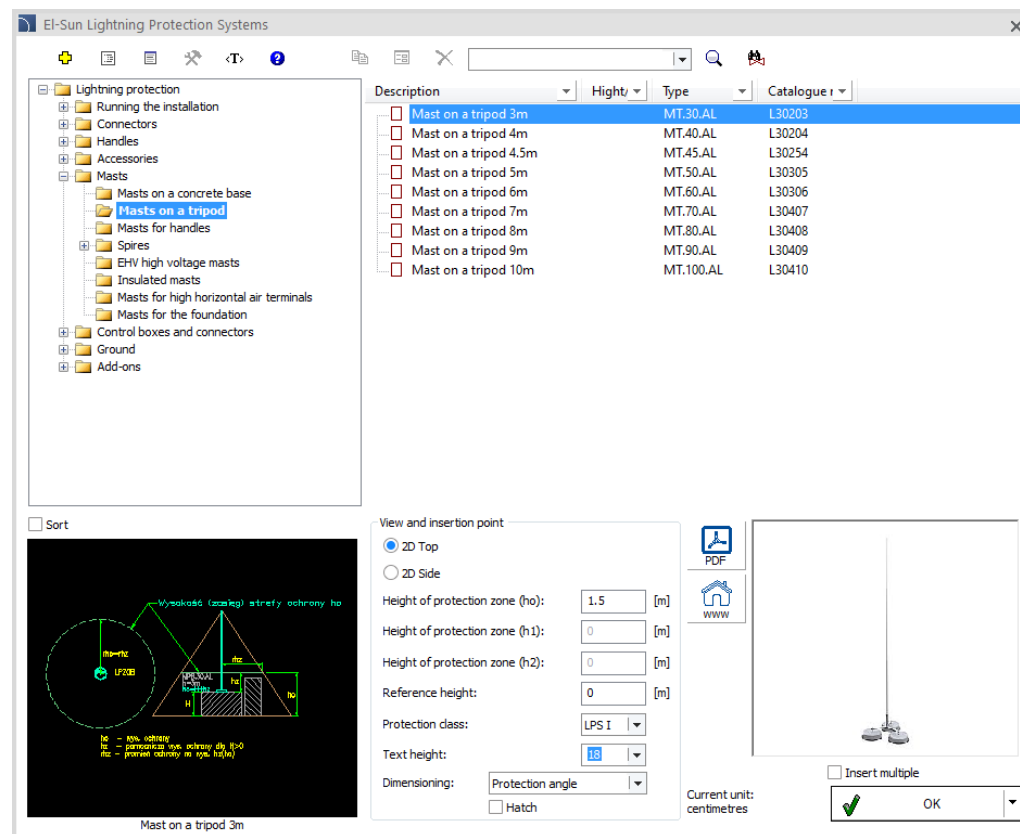
Dynamic determination of lightning protection areas is available in the latest versions of AutoCAD, BricsCAD, GstarCAD and ZWCAD.

✓ CADprofi OEM – new El-Sun library

A system for designing lightning protection installations by using *El-Sun* products was introduced to the CADprofi program. The library contains:

- Horizontal terminals and discharge pipes.
- Connectors – universal, parallel, cross, through, wire-rod, wire-hoop, hoop-hoop, gutter.
- Clamp holders.
- Masts and spiers.
- Control boxes and connectors.
- Ring, foundation and pin earthing.
- Accessories and add-ons.

Additionally, program enables the design of installations in four LPS protection classes and the determination of mast protection zones using the cone method (protective angle).

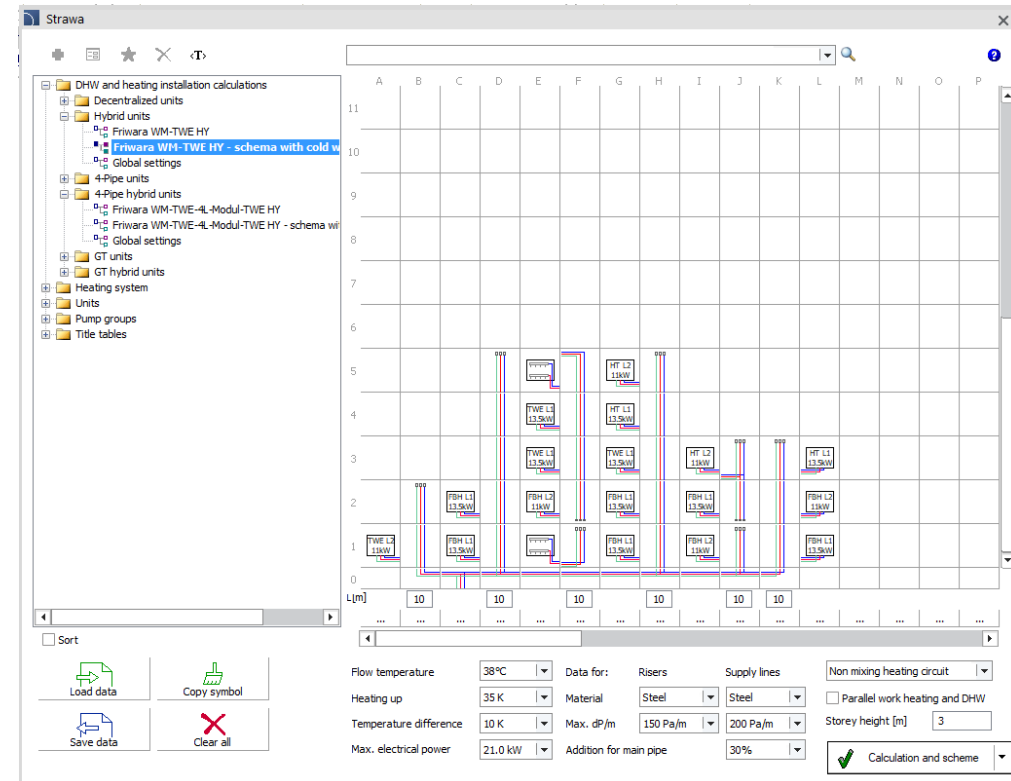



Description	Height	Type	Catalogue
<input type="checkbox"/> Mast on a tripod 3m		MT.30.AL	L30203
<input type="checkbox"/> Mast on a tripod 4m		MT.40.AL	L30204
<input type="checkbox"/> Mast on a tripod 4.5m		MT.45.AL	L30254
<input type="checkbox"/> Mast on a tripod 5m		MT.50.AL	L30305
<input type="checkbox"/> Mast on a tripod 6m		MT.60.AL	L30306
<input type="checkbox"/> Mast on a tripod 7m		MT.70.AL	L30407
<input type="checkbox"/> Mast on a tripod 8m		MT.80.AL	L30408
<input type="checkbox"/> Mast on a tripod 9m		MT.90.AL	L30409
<input type="checkbox"/> Mast on a tripod 10m		MT.100.AL	L30410

✓ CADprofi OEM – new Strawa library

Strawa library enables automatic selection of devices, performing hydraulic calculations and generating extended installation diagrams, as well as generating diagrams of boiler rooms and other heat sources along with buffer systems. The library facilitates the development of optimal solutions for heating and sanitary installations, offering the following possibilities:

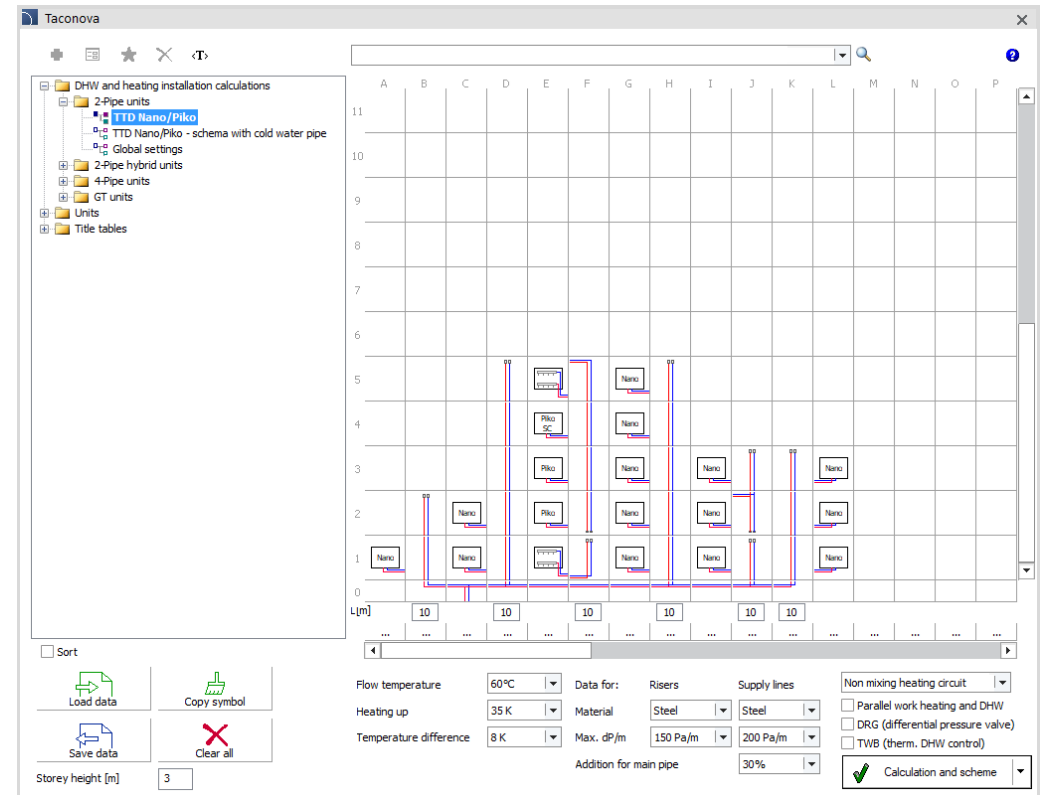
- Instant selection of receivers (residential stations and distributors) in the installation scheme creator window.
- Set heating power and/or domestic hot water demand separately for each receiver.
- Determining the general parameters of the installation and choosing the method of calculation.
- Selection of the type of pipes for risers and supply lines.
- Possibility to design installations for 2-wire and 4-wire stations.
- Calculating the actual demand for thermal power while taking into account the heater power in hybrid stations.
- Full hydraulic calculations with selection of pipe diameters, flow rates and determination of pressure drops.
- Calculation of the heat source power and peak power for domestic hot water.
- Selection of buffer sizes and pump types, i.e. buffer loading pump and circulation pump.
- Automatic drawing of heating installation layouts.
- List of pipe quantities.
- Multi-variant selection of elements in the boiler room diagram creator window, including: heat sources, number and arrangement of buffers (serial, Tichelmann or switched), pump groups, etc.



✓ CADprofi OEM – new Taconova library

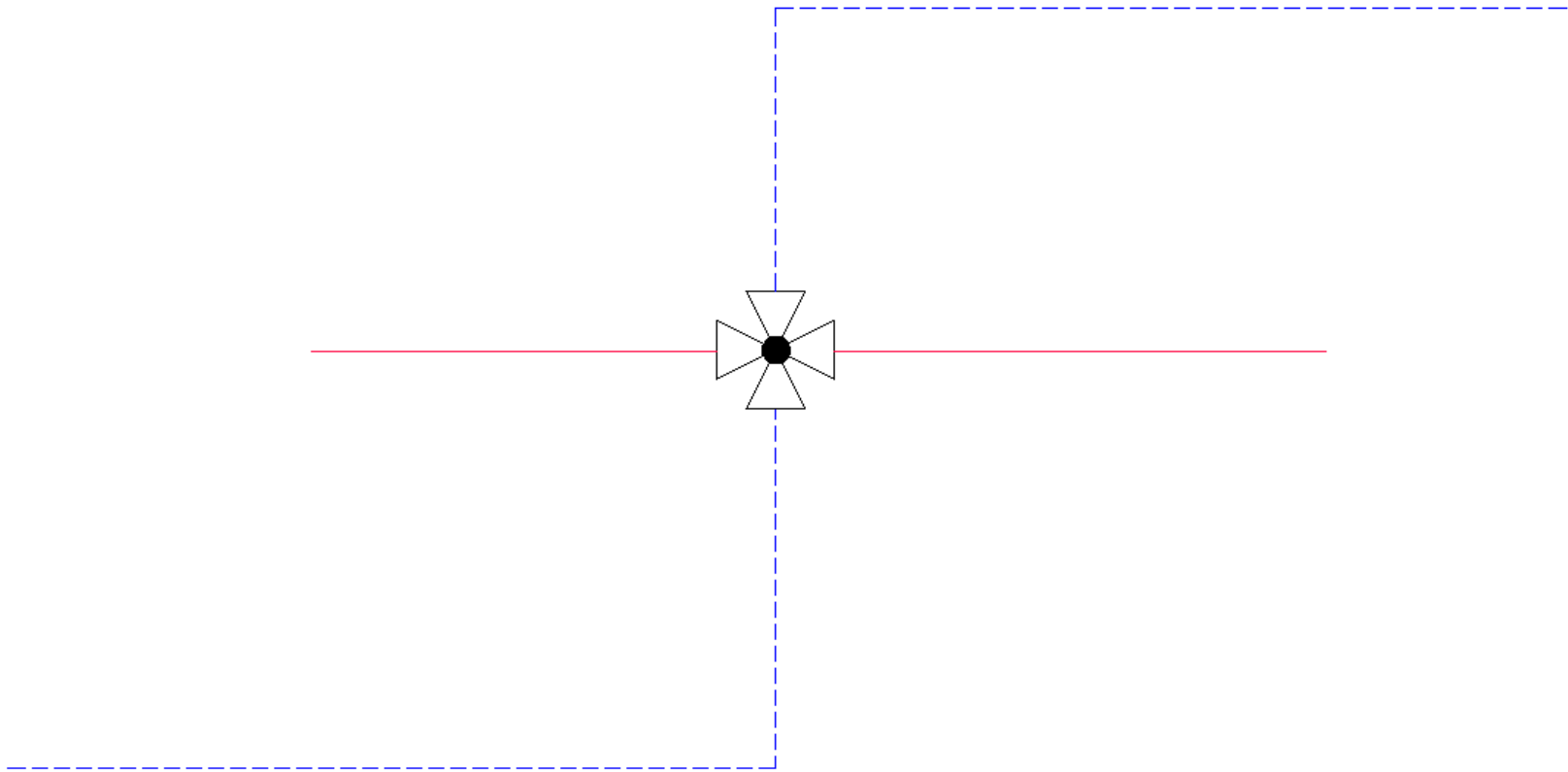
Taconova library has been introduced into the CADprofi program and enables automatic selection of devices, performing hydraulic calculations and generating expanded installation diagrams. This tool supports the designer in order to prepare heating and sanitary installations. Library allows user to:

- Instant selection of receivers (residential stations and distributors) in the installation scheme creator window.
- Set heating power and/or domestic hot water demand separately for each receiver.
- Determining the general parameters of the installation and choosing the method of calculation.
- Selection of the type of pipes for risers and supply lines.
- Possibility to design installations for 2-wire and 4-wire stations.
- Full hydraulic calculations with selection of pipe diameters, flow rates and determination of pressure drops.
- Calculation of the heat source power and peak power for domestic hot water needs.
- Selection of buffer sizes and pump types, i.e. buffer loading pump and circulation pump.
- Automatic drawing of installation layouts.
- List of pipe quantities.



✓ CADprofi – inserting cross symbols in polylines

The functionality of inserting cross symbols has been extended in the CADprofi program. Until now, such symbols could only be inserted into intersecting lines. Currently, the program allows user to insert cross symbols also into intersecting polylines and into a line intersecting with a polyline.

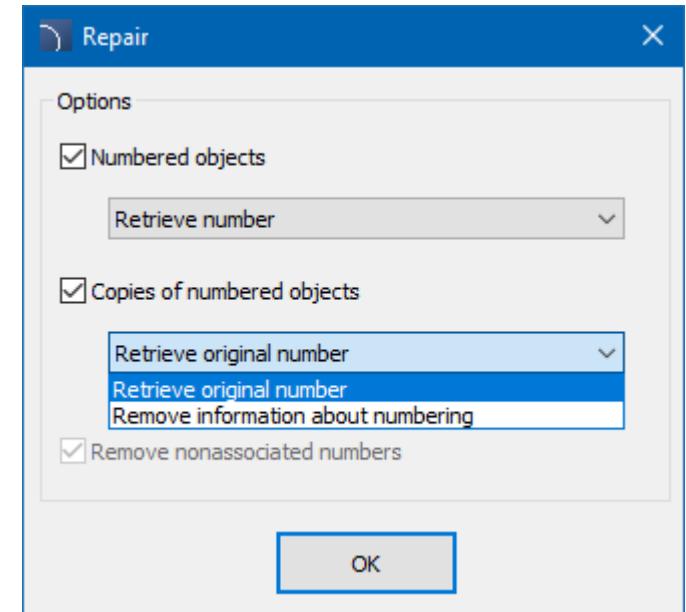
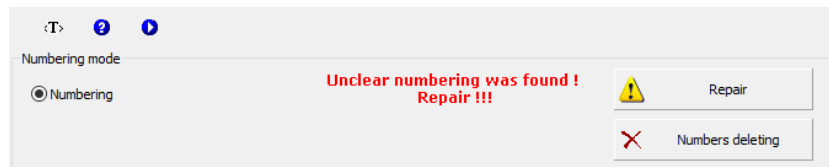


✓ CADprofi – "Numbering" command extended functionality

After detecting ambiguities in numbering, program informs about the lack of connections between objects and numbers and allows their synchronization.

The "Repair" button displays a dialog box with options for this synchronization. User can:

- recover the number or remove numbering information from the object or its copy,
- remove nonassociated numbers.

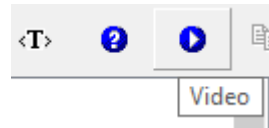




CADprofi

✓ CADprofi – links to video tutorials directly in the program

A button has been added to the CADprofi program dialog windows, allowing user to quickly go to the appropriate video showing how to use a given command. Video tutorials show step by step how to create projects using the CADprofi add-on.



CADprofi Architectural movie


Quick skip to movie scene:

- Drawing single and multi-layered walls
- Chimneys, culverts and gravity ventilation
- Inserting woodwork (doors and windows)
- Room definitions
- Designing stairs
- Furniture and equipment library
- Designing roofs
- Architectural dimensioning
- Cross-section and elevation views
- Roof gutter system
- Spot height and topographic signs
- Creating specifications and legends
- Preparation for printing

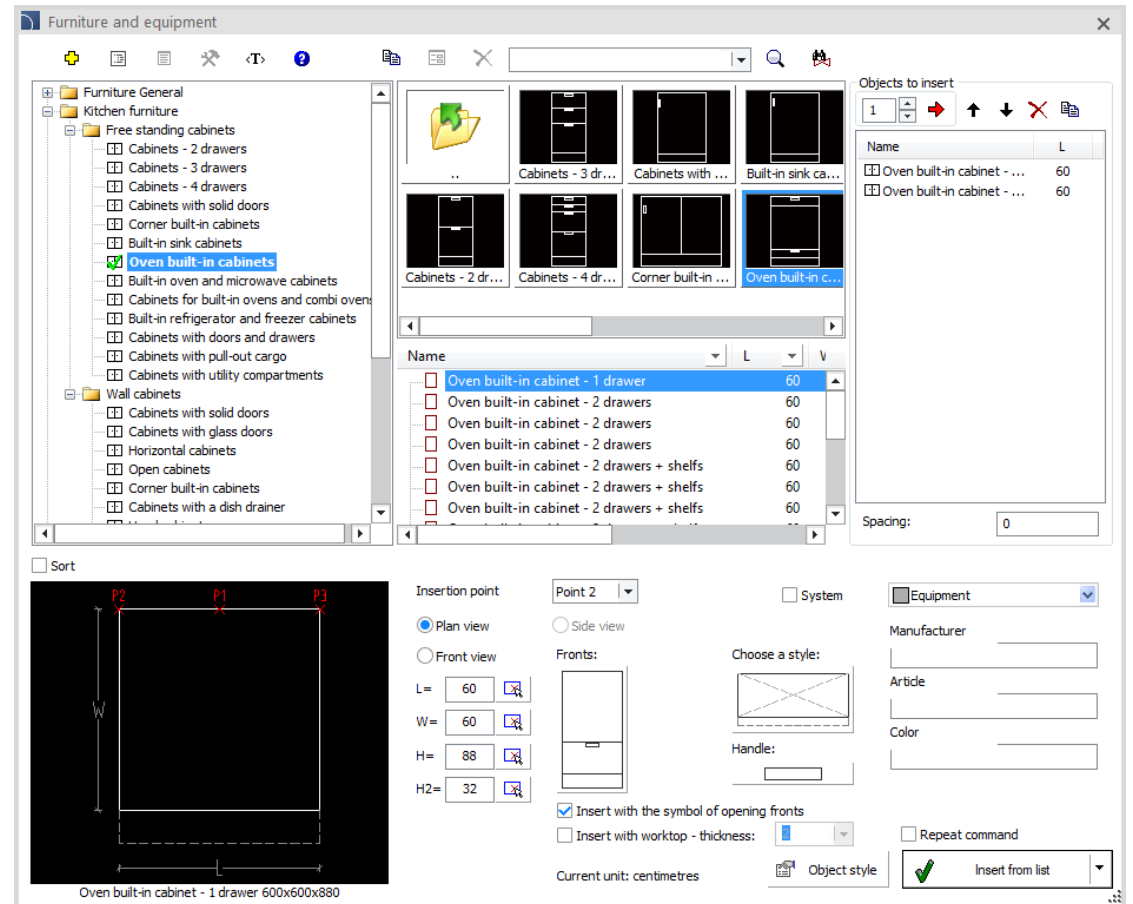
Watch full movie:



✓ CADprofi Architectural – free standing and wall cabinets

Free standing and wall kitchen furniture has been added to the *Furniture and equipment*  command, including:

- cabinets with 2, 3 and 4 drawers,
- built-in oven cabinets,
- cabinets for built-in refrigerators and freezers,
- corner built-in cabinets,
- built-in sink cabinets,
- cabinets with solid and glass doors,
- cabinets with pull-out cargo,
- cabinets with doors and drawers,
- cabinets with utility interior,
- horizontal cabinets,
- hood cabinets,
- microwave cabinets,
- cabinets above the fridge,
- cabinets with a drainer for dishes,
- open cabinets.

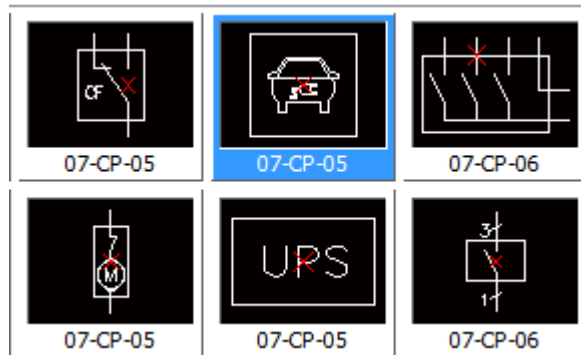


✓ CADprofi Electrical – extension of the library of switchboards and IEC, NFPA symbols

The *Switchboard* command has been extended to include additional product types:

- surface-mounted and flush-mounted switchboards, 1 row, 18 and 22 modules;
- surface-mounted and flush-mounted switchboards, 4-7 rows (36 modules/row).

Additionally, the *IEC, NFPA Symbols* library has been expanded with new symbols.

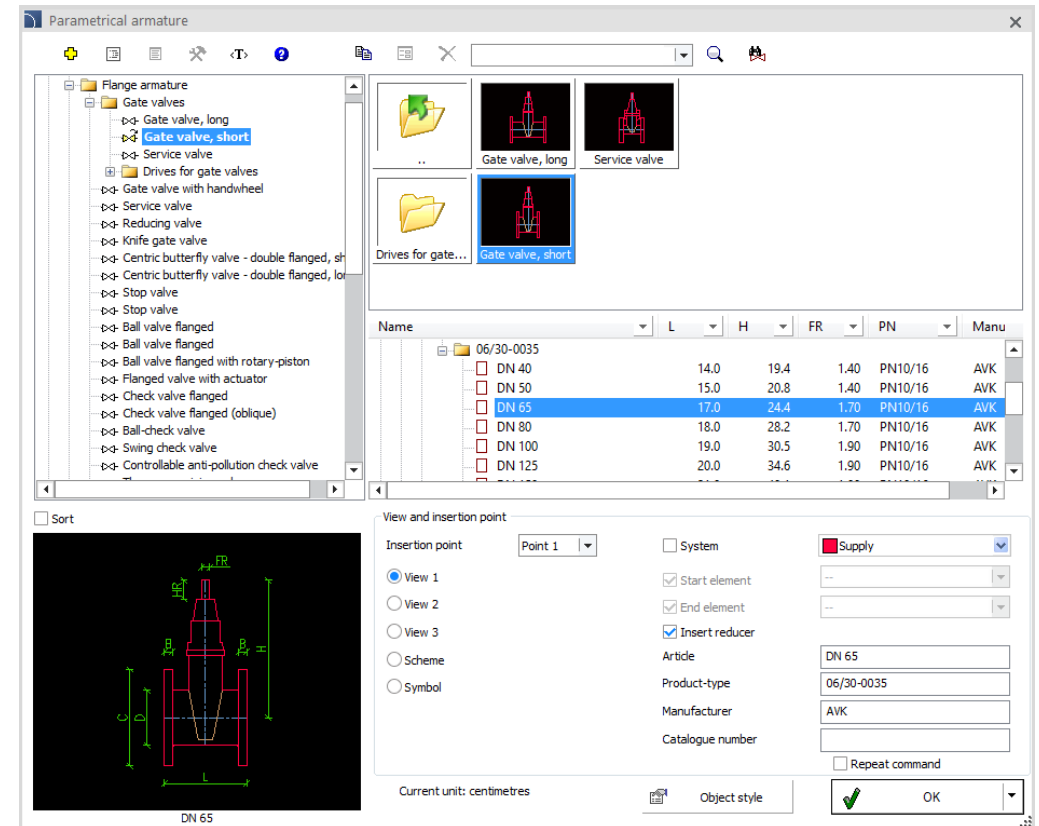


Configuration	Width (A)	Height (B)
1 row		
3-modules, (1x3)	32.00	27.5
6-modules, (1x6)	32.00	27.5
8-modules, (1x8)	32.00	27.5
12-modules, (1x12)	32.00	27.5
18-modules, (1x18)	46.00	27.5
22-modules, (1x22)	53.00	27.5
2 rows		
24-modules, (2x12)	32.00	40.5
36-modules, (2x18)	41.50	40.5
48-modules, 2x(2x12)	59.50	40.5
3 rows		
36-modules, (3x12)	32.00	53.0
54-modules, (3x18)	41.50	53.0
72-modules, (3x24)	52.50	53.0
72-modules, 2x(2x18)	59.50	53.0
108-modules, 3x(3x12)	80.00	53.0
144-modules, 4x(3x12)	105.00	53.0
4 rows		
48-modules, (4x12)	32.00	65.5



✓ CADprofi HVAC & Piping – extension of the flange fittings library

Gate valves without drives and Drives for gate valves have been added to the *Parametrical armature* command as separate objects.


Additionally, a list of available *wedge gate valves with handwheel* has been enriched with new types according to the Hawle catalogue.

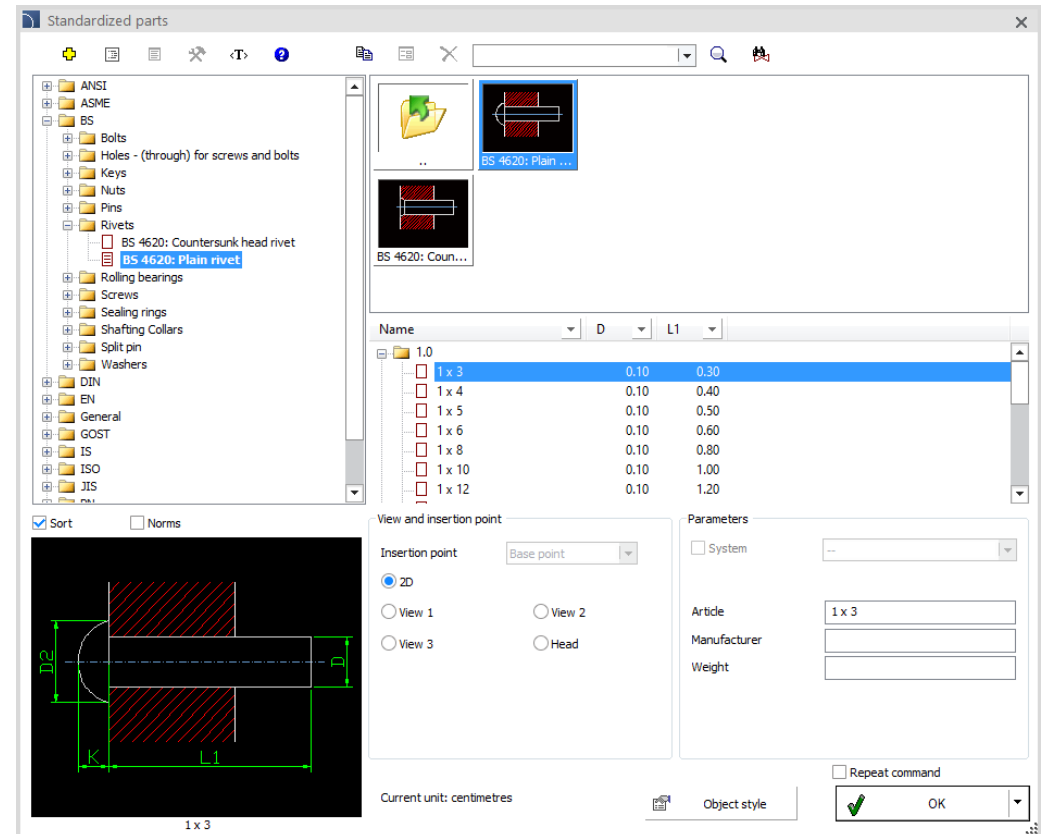


✓ CADprofi Mechanical – British Standards (BS)



The *Steel shapes*  and *Standardized Parts*  have been extended with products prepared in accordance to British Standards (BS), including:

- round head and flat head rivets;
- cylindrical, conical, spring and parallel and tapered notched pins;
- cotter pins;
- holes;
- screws with cylindrical and countersunk heads;
- mortise wedges;
- sealing rings;
- ball and spherical roller bearings;
- isosceles and non-isosceles angles;
- economical and hot-rolled channels;
- closed sections;
- welded, seamless and stainless steel pipes.

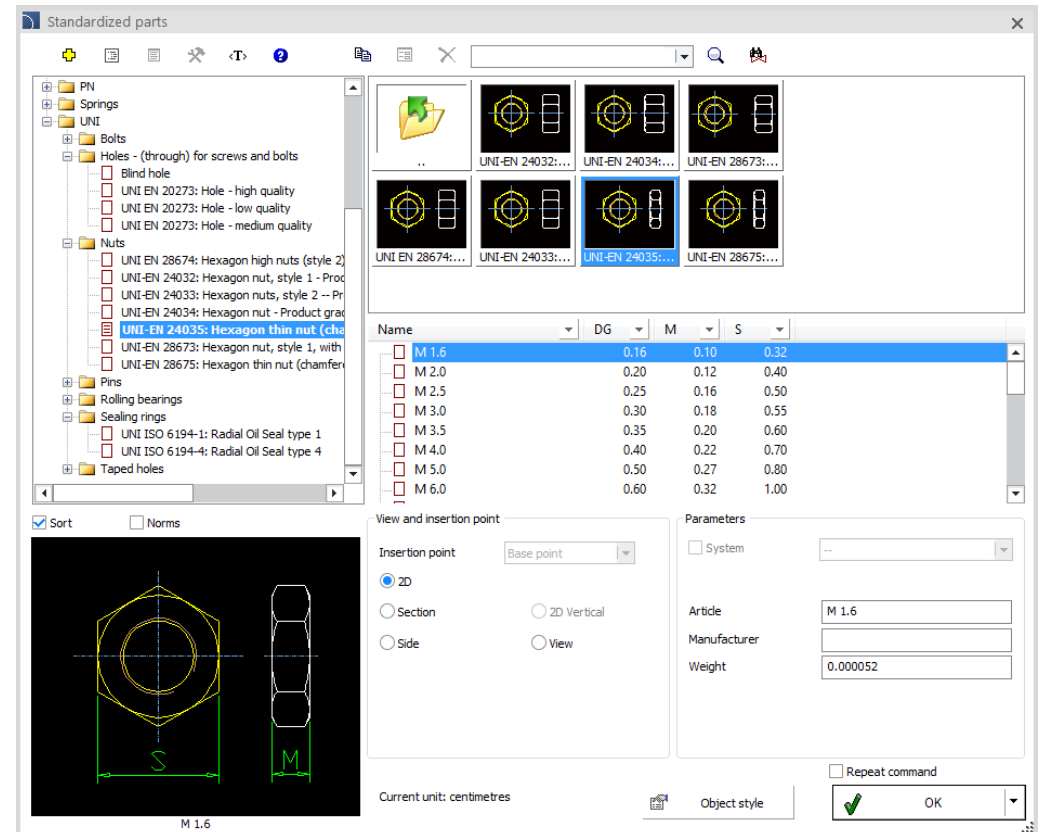
Additionally, the DIN 931-1 and DIN 933 standards (hexagonal head screw) have been added to the *Standardized Parts*  command.



✓ CADprofi Mechanical – Ente Nazionale Italiano di Unificazione (UNI) standards

The *Steel shapes*  and *Standardized Parts*  have been extended with products prepared in accordance to the Italian standardization - Ente Nazionale Italiano di Unificazione (UNI), including:

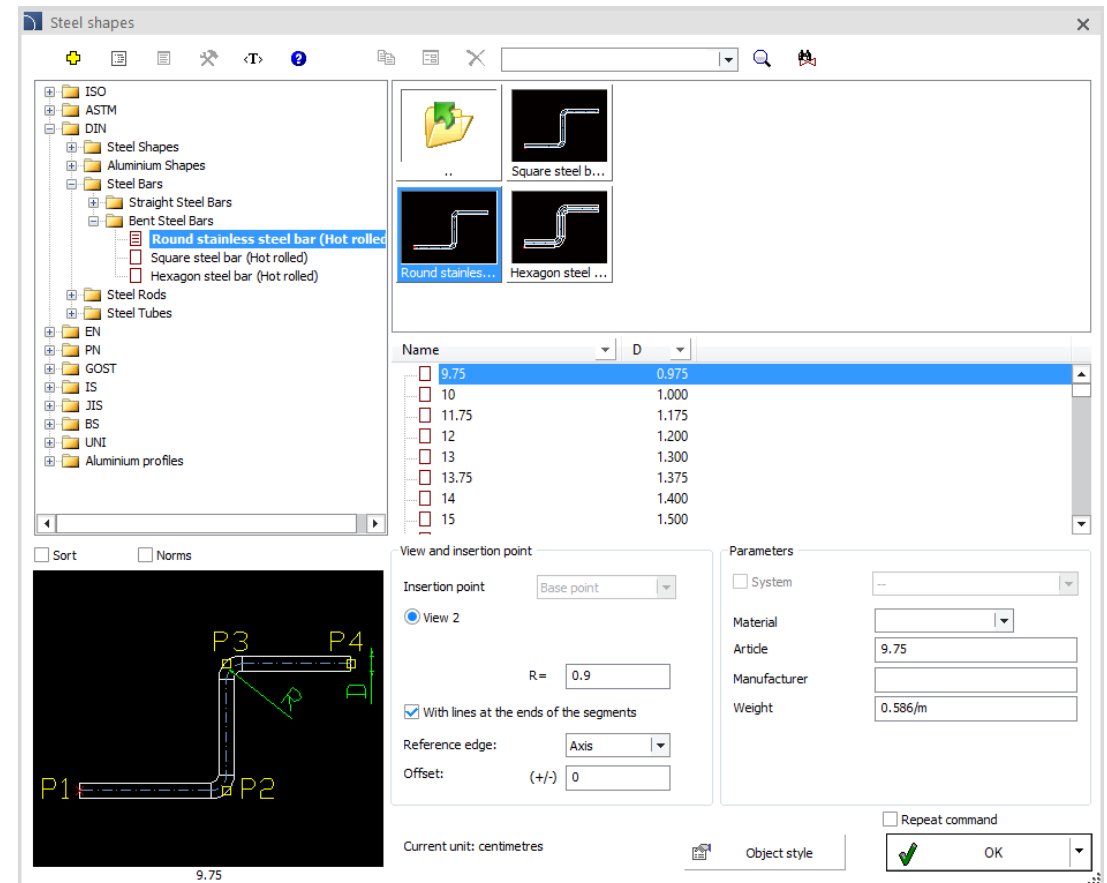
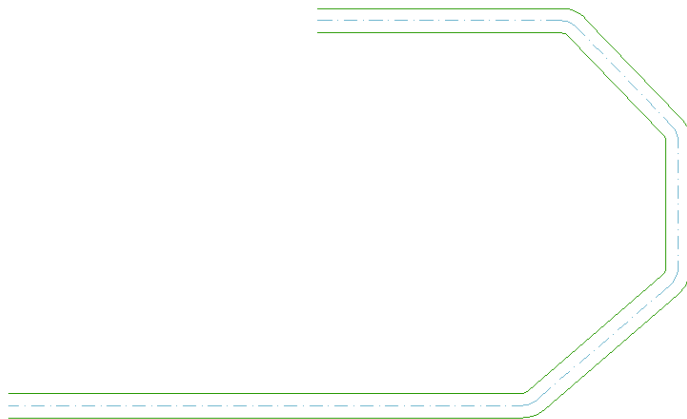
- pins,
- bearings,
- nuts,
- threaded holes,
- transition holes for bolts and screws,
- sealing rings,
- screws,
- steel sections,
- steel bars and pipes.



✓ CADprofi Mechanical – extension of the "Steel shapes" command

Straight and bent steel bars available in the *Steel shapes* command have been extended with new possibilities, including:

- ability to draw elements one after the other without interruption (creating a sequence of elements),
- ability to draw straight elements with elbows (creating a sequence of bent elements).



✓ CADprofi OEM – extension of the Noark Electric library

The *Noark Electric* library has been expanded with new products, including:

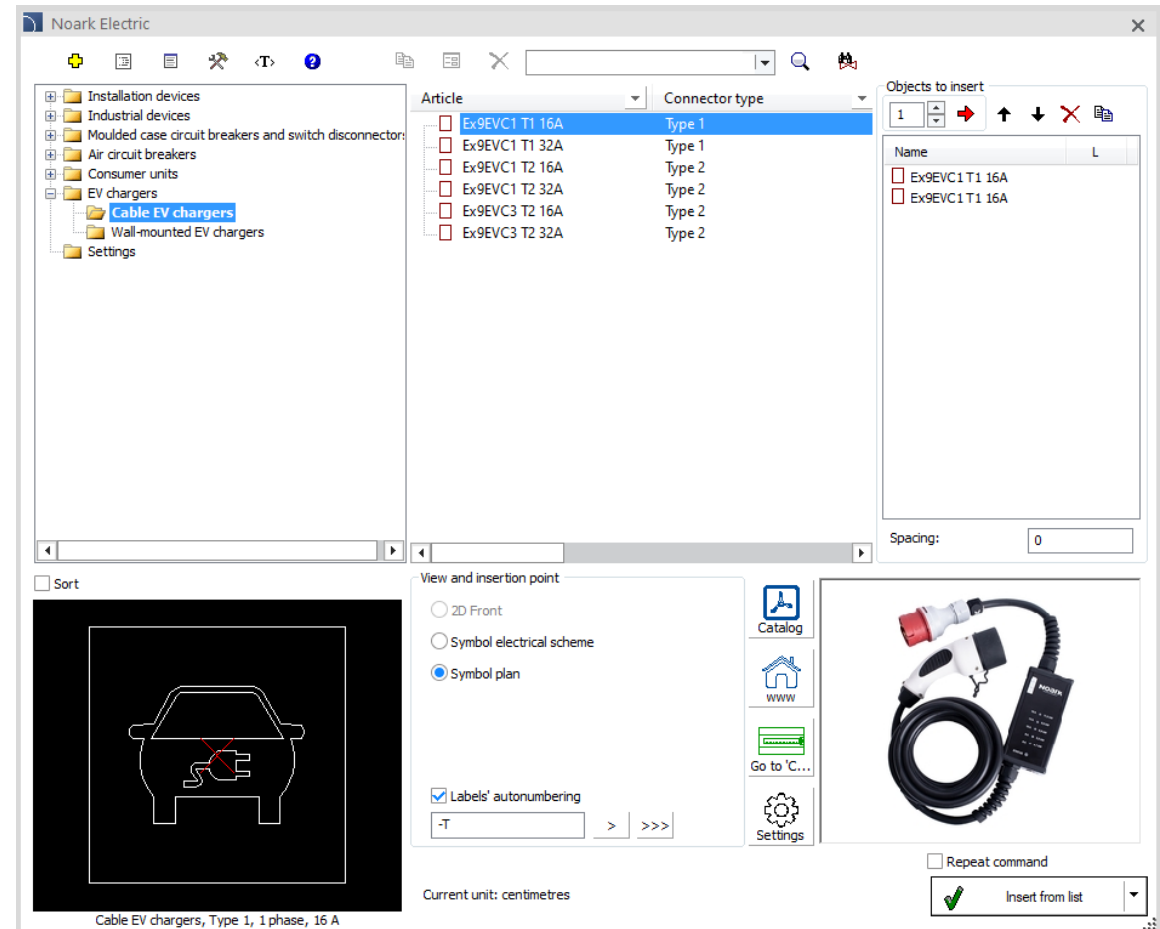
- flush-mounted and surface-mounted installation casings made of plastic, metal and multimedia;
- distribution blocks;
- service sockets;
- connecting busbars;
- insulating terminals;
- terminal blocks;
- chargers for electric cars.



Additionally, the library has been expanded to include the ability to automatically select cabinets based on the devices used in the project and to determine the size of labels for products.



Choose an Noark Electric cabinet for the selected apparatus from the drawing

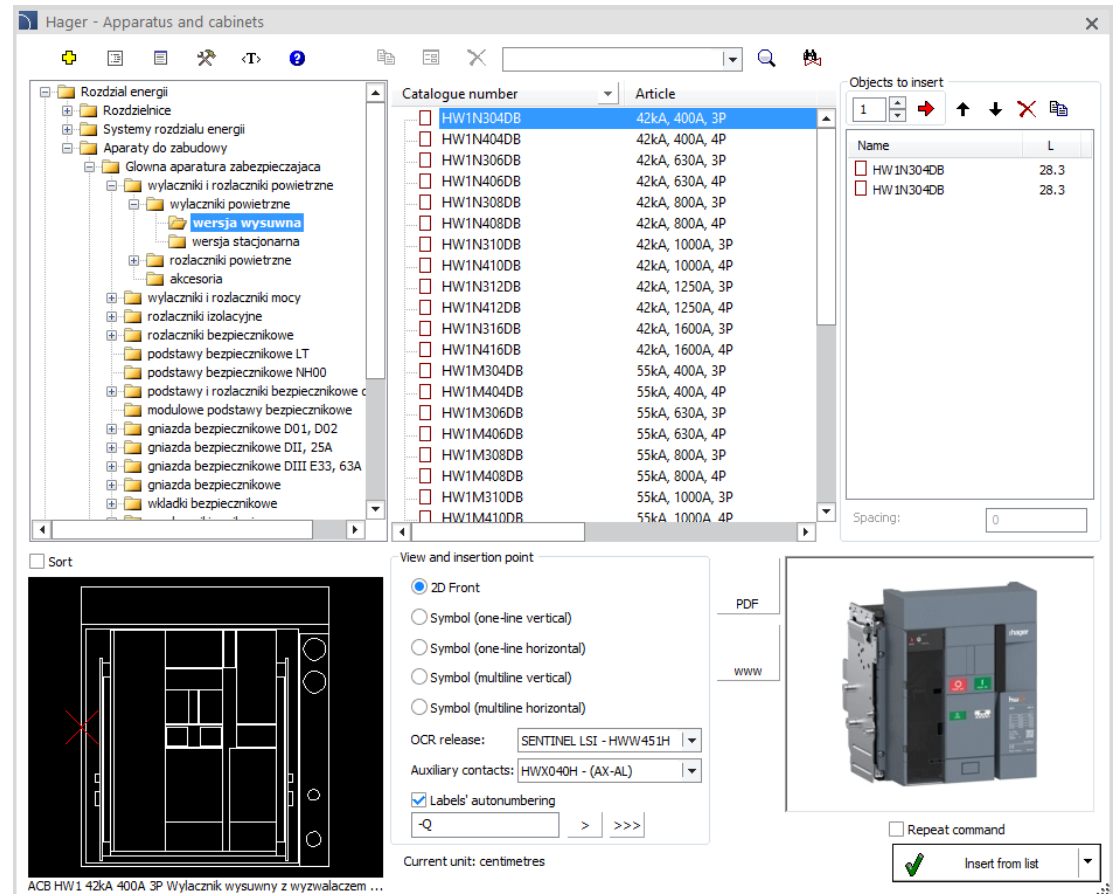


✓ CADprofi OEM – extension of the Hager library

Hager library has been expanded with a new series of hw+ air circuit breakers and switch disconnectors:

- air circuit breakers in fixed and withdrawable versions;
- air switches in stationary and withdrawable versions;
- elements of the univers NHC building system;
- additional accessories: shunt and undervoltage releases, closing coils, motor drives, auxiliary and signaling contacts, mechanical interlocks.

Hager library is only available in Polish language.

The screenshot shows the Hager CAD software interface with the following components:

- Tree View:** A hierarchical tree structure on the left side, including folders like "Rozdzial energii", "Systemy rozdzialu energii", and "Aparaty do zabudowy". The "wersja wysuwna" folder is highlighted.
- Catalogue number and Article Table:** A table listing various circuit breaker models with their specifications.

Catalogue number	Article
<input type="checkbox"/> HW1N304DB	42kA, 400A, 3P
<input type="checkbox"/> HW1N404DB	42kA, 400A, 4P
<input type="checkbox"/> HW1N306DB	42kA, 630A, 3P
<input type="checkbox"/> HW1N406DB	42kA, 630A, 4P
<input type="checkbox"/> HW1N308DB	42kA, 800A, 3P
<input type="checkbox"/> HW1N408DB	42kA, 800A, 4P
<input type="checkbox"/> HW1N310DB	42kA, 1000A, 3P
<input type="checkbox"/> HW1N410DB	42kA, 1000A, 4P
<input type="checkbox"/> HW1N312DB	42kA, 1250A, 3P
<input type="checkbox"/> HW1N412DB	42kA, 1250A, 4P
<input type="checkbox"/> HW1N316DB	42kA, 1600A, 3P
<input type="checkbox"/> HW1N416DB	42kA, 1600A, 4P
<input type="checkbox"/> HW1M304DB	55kA, 400A, 3P
<input type="checkbox"/> HW1M404DB	55kA, 400A, 4P
<input type="checkbox"/> HW1M306DB	55kA, 630A, 3P
<input type="checkbox"/> HW1M406DB	55kA, 630A, 4P
<input type="checkbox"/> HW1M308DB	55kA, 800A, 3P
<input type="checkbox"/> HW1M408DB	55kA, 800A, 4P
<input type="checkbox"/> HW1M310DB	55kA, 1000A, 3P
<input type="checkbox"/> HW1M410DB	55kA, 1000A, 4P
- Objects to insert:** A panel on the right showing a list of selected items:

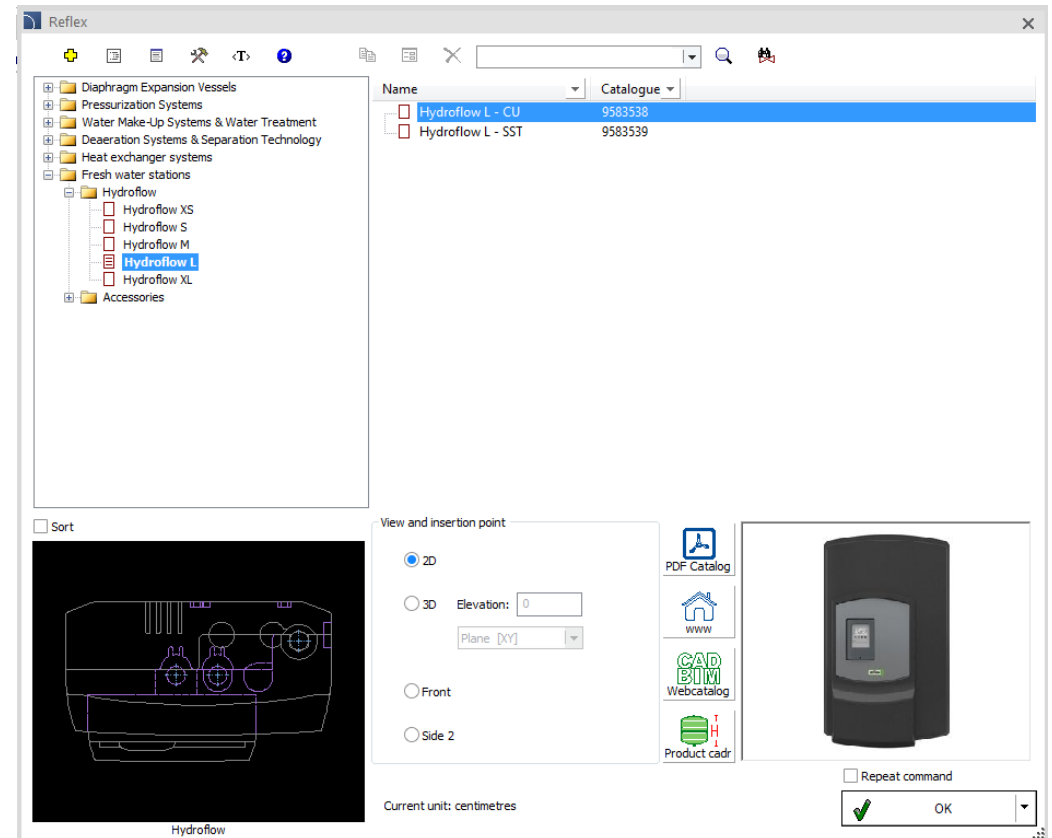
Name	L
<input type="checkbox"/> HW1N304DB	28.3
<input type="checkbox"/> HW1N304DB	28.3
- View and insertion point:** A panel at the bottom center with options for "2D Front", "Symbol (one-line vertical)", "Symbol (one-line horizontal)", "Symbol (multiline vertical)", and "Symbol (multiline horizontal)". It also includes dropdowns for "OCR release" (SENTINEL LSI - HWW451H) and "Auxiliary contacts" (HWX040H - (AX-AL)), a checked "Labels' autonumbering" option, and a "Repeat command" checkbox.
- 3D Model:** A 3D rendering of a Hager air circuit breaker is shown on the right side of the interface.
- Status Bar:** At the bottom, it displays "Current unit: centimetres" and a button labeled "Insert from list".

✓ CADprofi OEM – extension of the Reflex library

Reflex library has been expanded with a new product range - Hydroflow domestic hot water preparation stations, SF buffer tanks and Reflexomat Silent Compact Smart (RSC Smart).

Additionally, the product selection window has been extended with the ability to quickly go to:

- manufacturer's website,
- selected product directly in the web catalog,
- product cards in PDF format.





CADprofi

✓ Update of product libraries:





CADprofi

✓ Adjustment to many base CAD programs

CADprofi 2024.07/09 has been adjusted to work with latest CAD programs, including: AutoCAD 2025, CADian 2024 and IntelliCAD 12.0.

CADprofi 2024 currently works with many base CAD programs including: AutoCAD (since 2004 version), ARES Commander 2024 BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD and others.

The logo for AutoCAD, featuring the word 'AutoCAD' in a bold, red, sans-serif font with a registered trademark symbol.

The logo for ZWCAD, featuring the word 'ZWCAD' in a bold, blue, sans-serif font with a green leaf-like graphic above the 'W'.

The logo for GstarCAD, featuring the word 'GstarCAD' in a bold, blue, sans-serif font with a yellow 'G' and 'A', and the tagline 'An Alternative CAD System' below it.

The logo for BRICSCAD, featuring a stylized blue 'B' shape above the word 'BRICSCAD' in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow 'I' shape above the word 'progeSOFT' in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow 'I' shape above the word 'IntelliCAD' in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red, stylized flame-like graphic above the text 'Gräbert ARES® Commander' in a bold, black, sans-serif font.



CADprofi



CADprofi 2024

Summary of main changes made in the program
since the CADprofi 2023.01 version.



CADprofi

Table of contents:

- [General functions \(all modules\)](#)
- [CADprofi Architectural](#)
- [CADprofi Electrical](#)
- [CADprofi HVAC & Piping](#)
- [CADprofi Mechanical](#)
- [Product library](#)
- [Compatibility with CAD programs](#)

✓ CADprofi – advanced „Numbering”

The *Numbering* ^① command has been improved in the latest version of CADprofi.

Currently, the program allows user to:

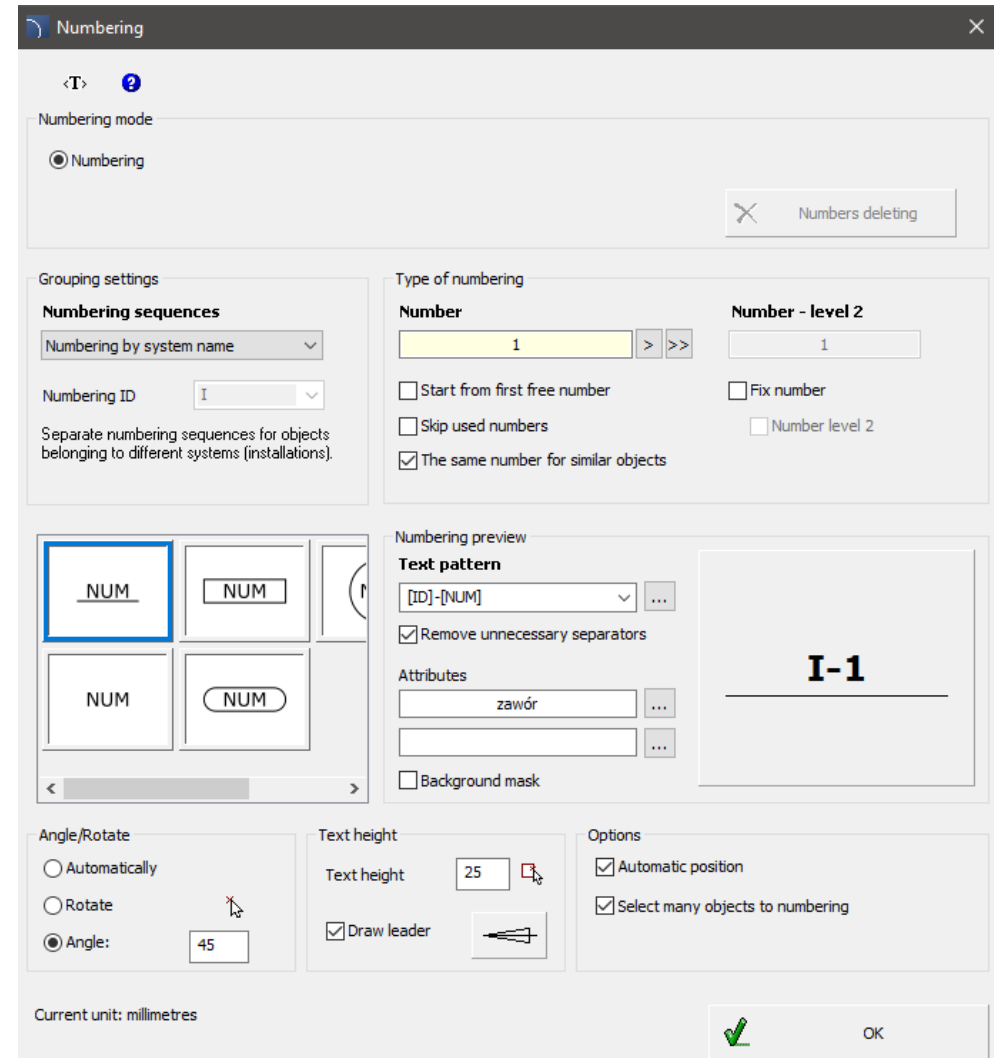
- define his own number sequences,
- separate numbering of different systems,
- determine the text pattern,
- define two-level numbering.

Additionally, user can define the numbering style and use attribute numbers and other data taken from numbered objects in symbols.

Thanks to this user has complete freedom to create numbers in accordance with the requirements of various industries.



[Watch movie](#)



The screenshot shows the 'Numbering' dialog box with the following settings:

- Numbering mode:** Numbering (selected)
- Numbers deleting:** [X] Numbers deleting
- Grouping settings:**
 - Numbering sequences: Numbering by system name
 - Numbering ID: I
 - Separate numbering sequences for objects belonging to different systems (installations): []
- Type of numbering:**
 - Number: 1
 - Number - level 2: 1
 - Start from first free number: []
 - Skip used numbers: []
 - The same number for similar objects: [x]
 - Fix number: []
 - Number level 2: []
- Numbering preview:**
 - Text pattern: [ID]-[NUM]
 - Remove unnecessary separators: [x]
 - Attributes: zawór
 - Background mask: []
 - Preview: I-1
- Angle/Rotate:**
 - Automatically: []
 - Rotate: []
 - Angle: 45
- Text height:**
 - Text height: 25
 - Draw leader: [x]
- Options:**
 - Automatic position: [x]
 - Select many objects to numbering: [x]
- Current unit:** millimetres
- Buttons:** [OK] [Green checkmark]

✓ CADprofi – object placement (command extension)

In the latest version of the program, the *Arrange* command has been extended with the possibility of arranging objects in the dynamic area.

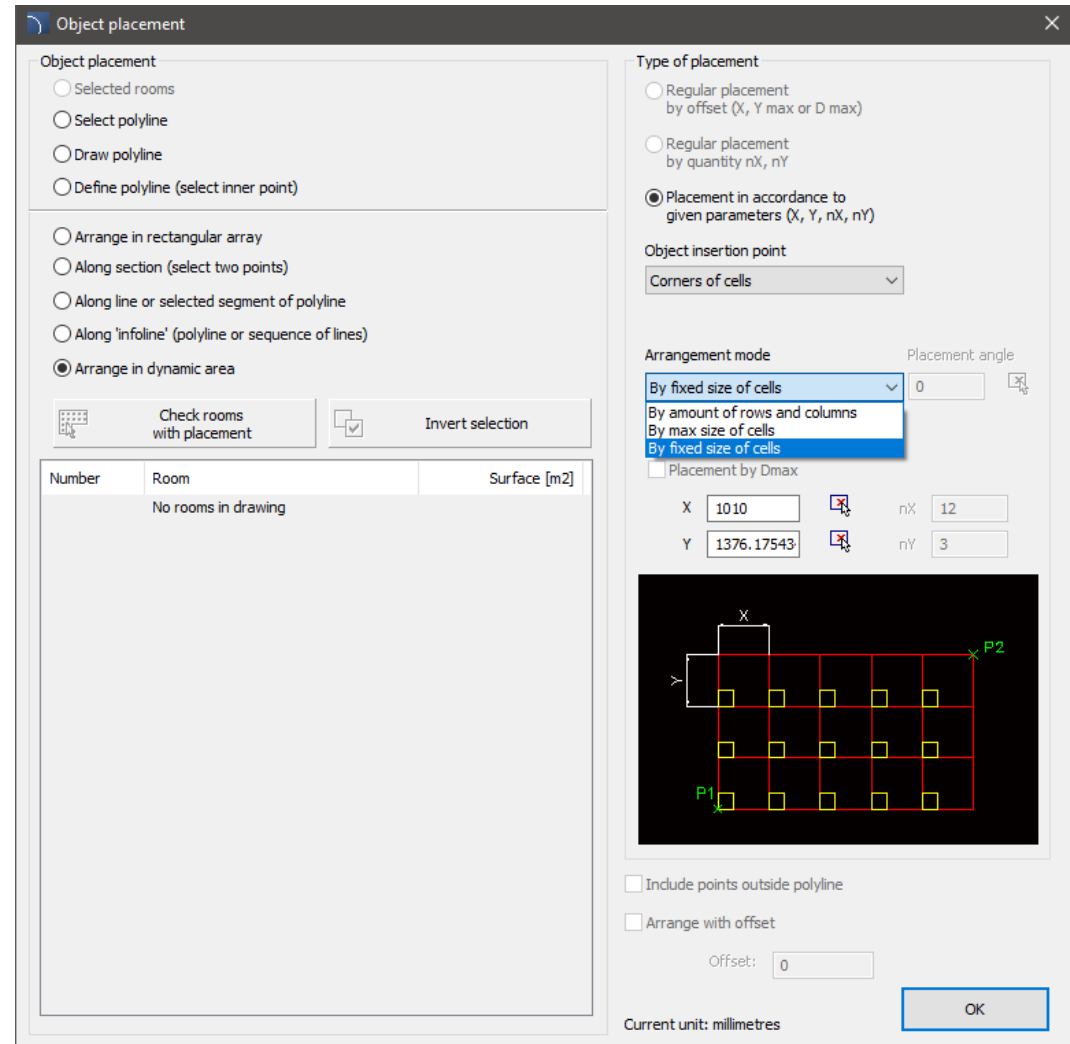
The "Arrange in dynamic area" option allows user to quickly and visually insert multiple copies of a given object at regular intervals.

Various options allow user to customize the arrangement of objects to his needs.



[Watch movie](#)

The *Arrange* command significantly speeds up e.g. placement of fire detectors, sprinklers, lighting, as well as objects such as photovoltaic panels and other objects.



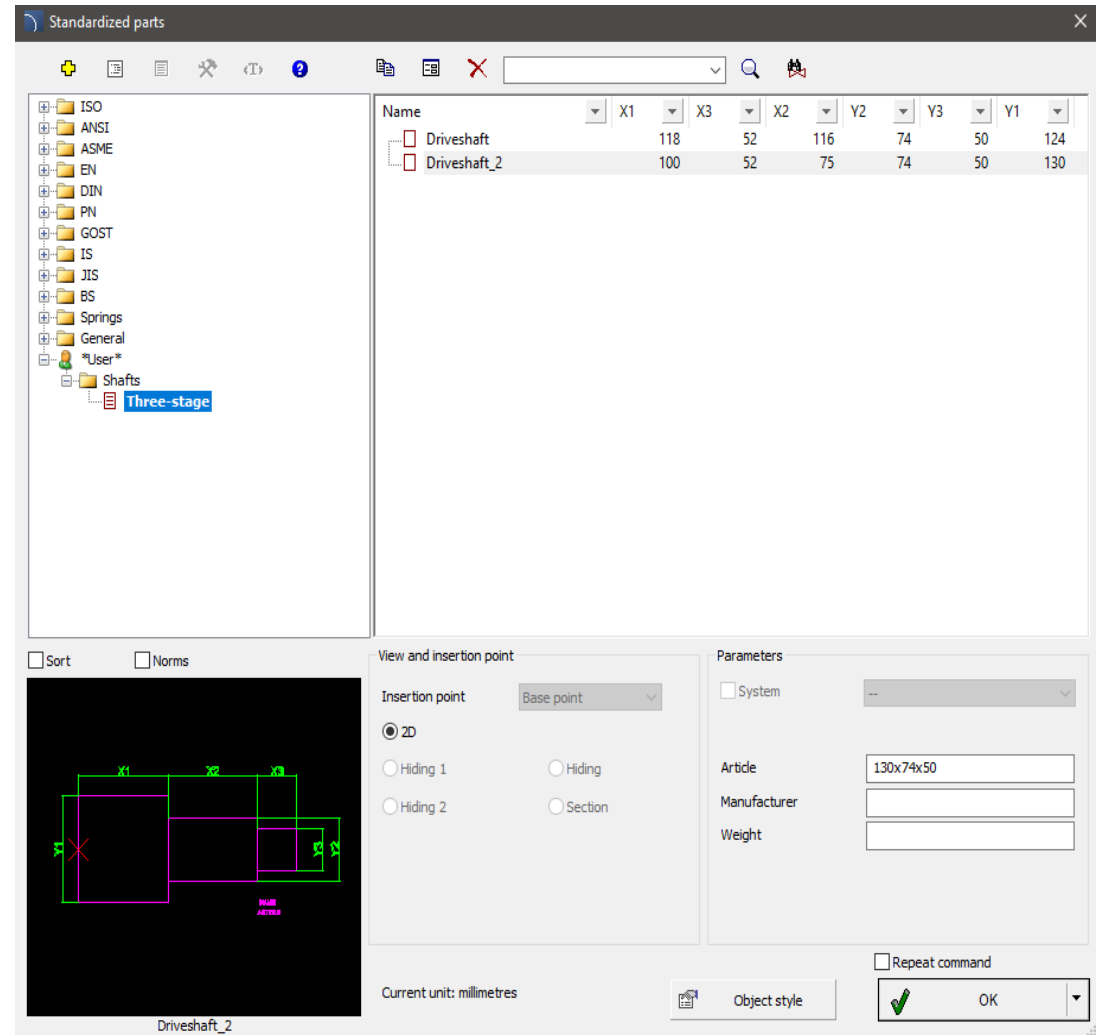
✓ CADprofi – user parametrical objects

The possibility to add user parametric objects has been introduced to CADprofi.

A parametrical object is an object that can contain any number of parametric dimensions. By changing the parameters, you can insert objects of various sizes into the program without having to draw each of the variants. Parameters can be freely edited by the user and saved in program's libraries.



[Watch movie](#)



Name	X1	X3	X2	Y2	Y3	Y1
Driveshaft	118	52	116	74	50	124
Driveshaft_2	100	52	75	74	50	130

Parameters for Driveshaft_2:

- System: --
- Article: 130x74x50
- Manufacturer:
- Weight:

View and insertion point: 2D, Hiding 1, Hiding 2, Section

Current unit: millimetres

Repeat command:

Object style: OK

✓ CADprofi – dynamic connections between objects

Dynamic connections between objects have been introduced in CADprofi, which allows for mutual interaction, and changing one object may affect others. This allows user to automatically and instantly update the related object after any edit.

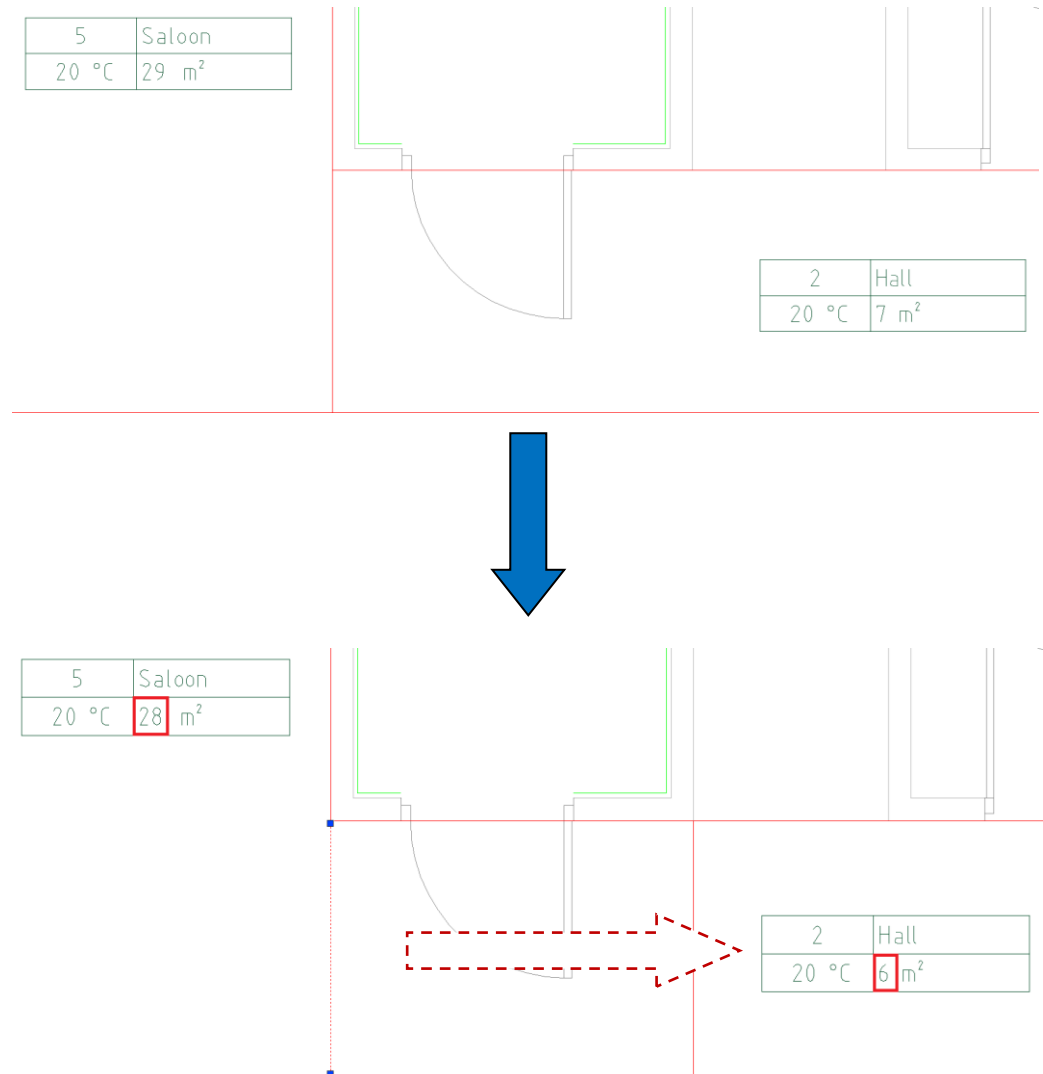
Examples:

- changing the area of the room outline will automatically update the room descriptions associated with it,
- changing the reference point will automatically update the level marks associated with it.


Dynamic object connections are available in the latest versions of AutoCAD, BricsCAD, GstarCAD, and ZWCAD.



[Watch movie](#)



✓ CADprofi Architectural – changes in the „Furniture and equipment” command

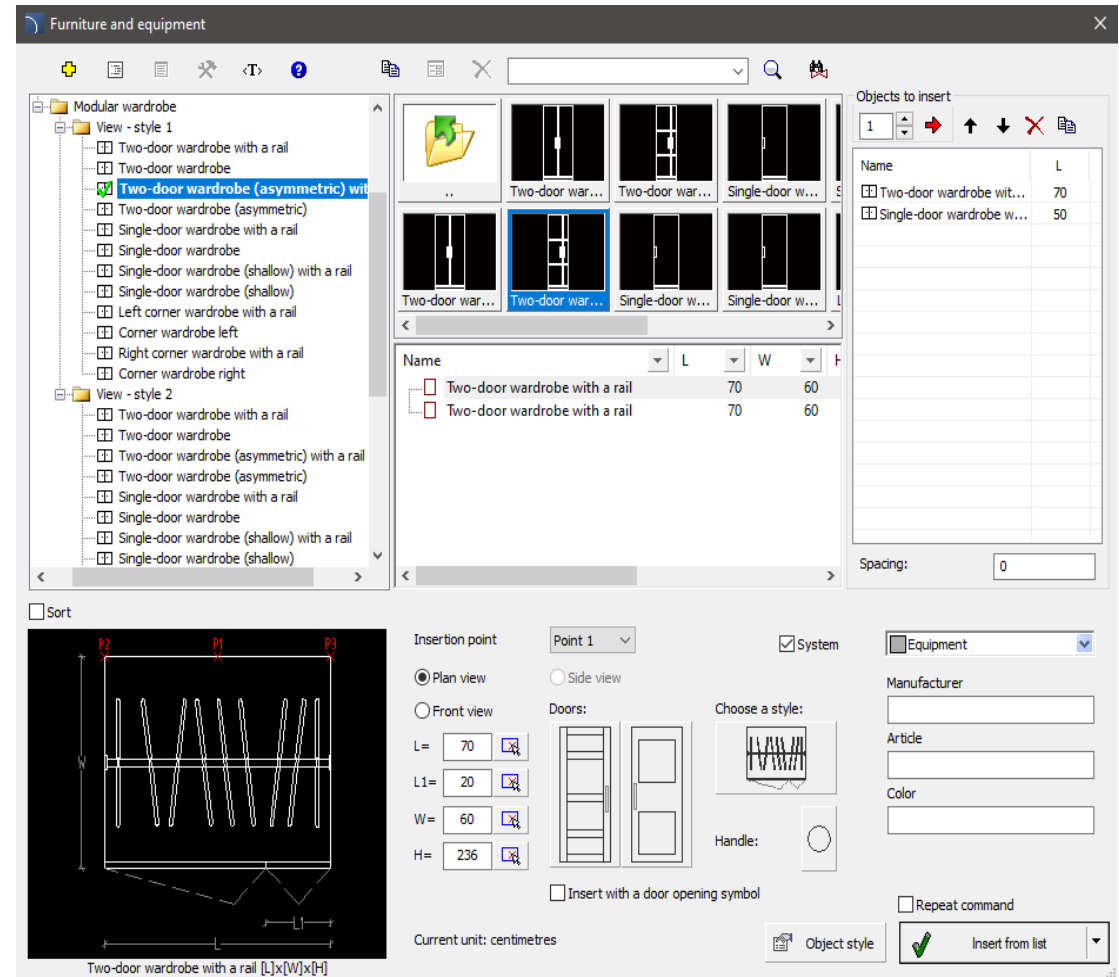
The *Furniture and equipment*  command has been extended with new functions and elements, including:

- a preview list with thumbnails that allows for quick and visual selection of an object,
- option to insert items from a list,
- modular cabinets in which user can choose the type of door, handle and cabinet size,
- kitchen hoods with possibility to automatically connect ventilation ducts of specific diameters.


Additionally, elements from other commands have been transferred to this command, including: fireplaces and waste containers.



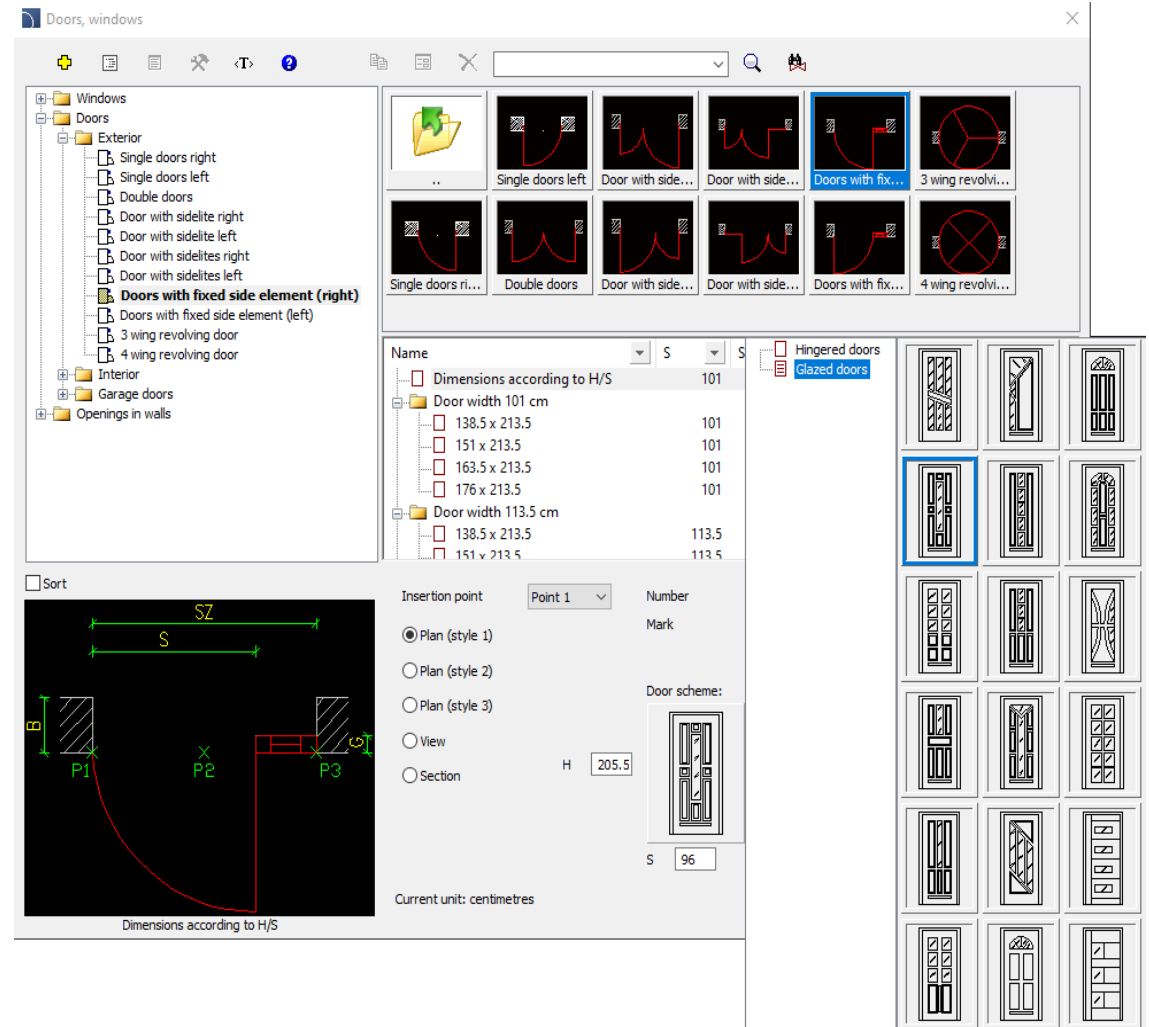
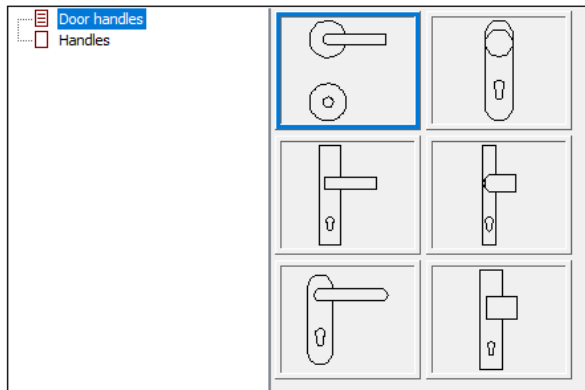
[Watch movie](#)




✓ CADprofi Architectural – extension of “Doors, windows” library

The *Doors, Windows*  library available in the CADprofi Architectural program has been extended with:

- new door schemes,
- new styles of door extensions,
- selection of door handle.



✓ CADprofi Electrical – extension of the „Scheme creator and templates” command

Scheme creator  available in the CADprofi Electrical program has been extended with the ability to enter markings for potential lines and including:

Ready-made clutch systems for:

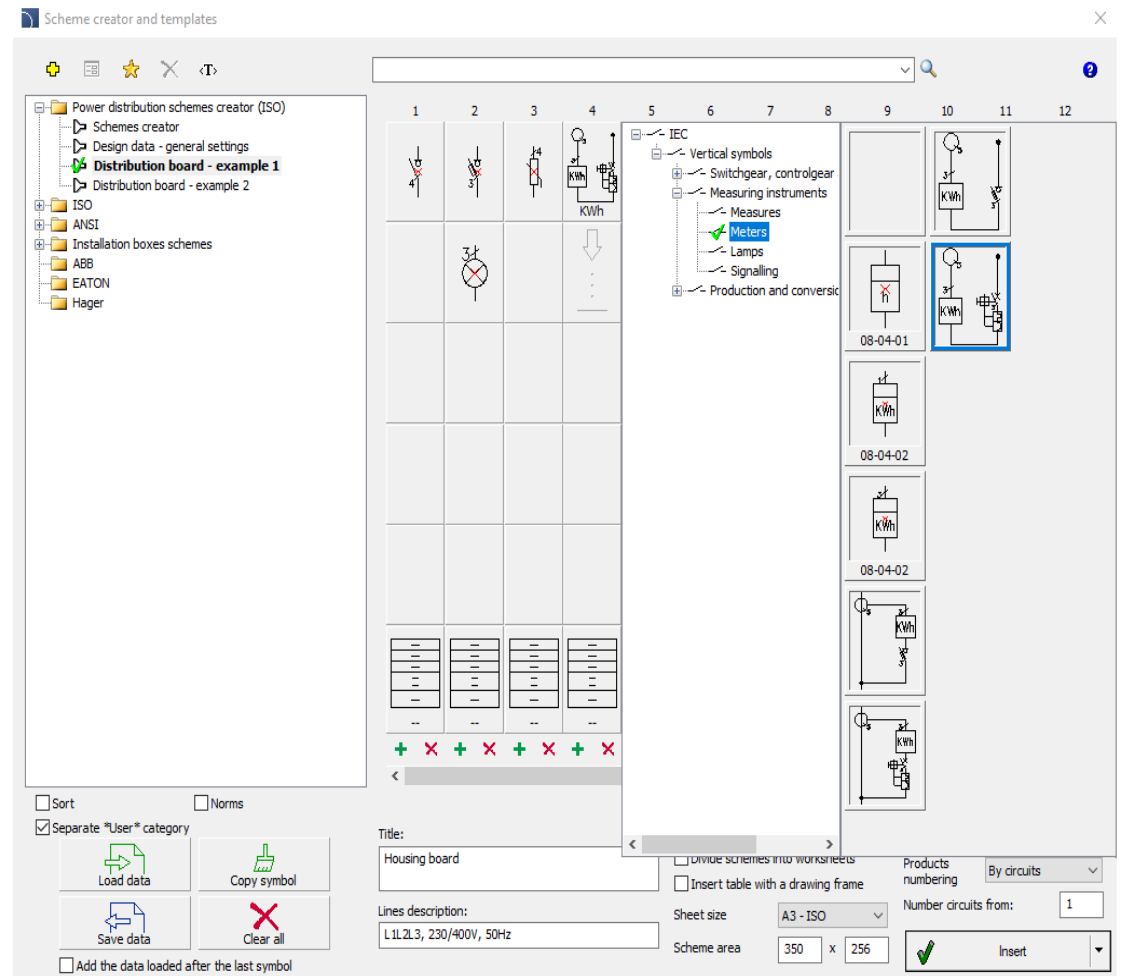
- load switches, compact and air,
- molded case and air circuit breakers.

Measuring systems:

- ammeter with current transformer, fuse or circuit breaker,
- network parameter analyzer with current transformers, fuse device or overcurrent circuit breaker,
- energy meter with current transformers, fuse device or overcurrent switch.

Moreover, in the product selection window it is possible to specify the installation area of the devices and the method of their installation in the switchgear (vertically or horizontally).

Additionally, the "Design data - general settings" window has been extended with the possibility of inserting a cover page sheet and a sheet with technical parameters and project description.

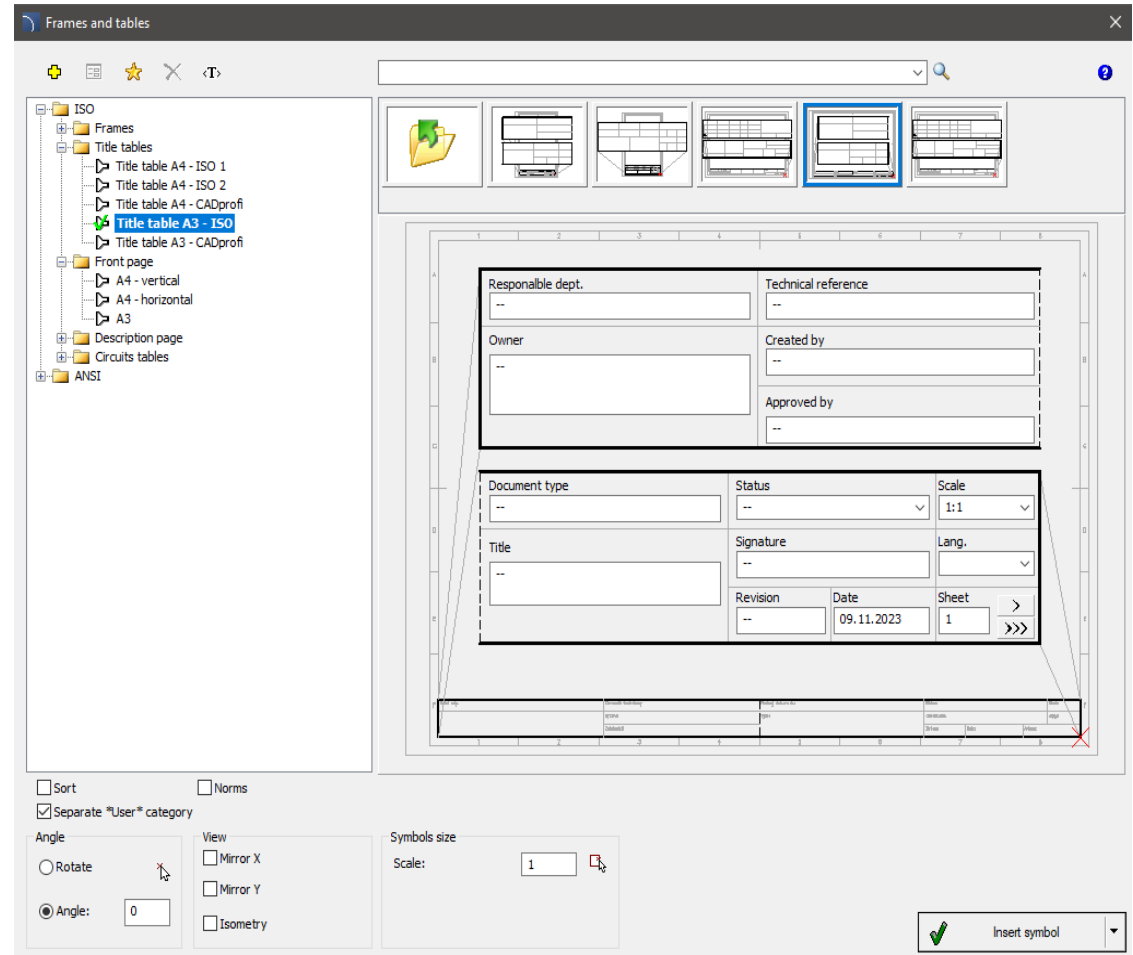


✓ CADprofi Electrical – extension of the „Frames and tables” command


The *Frames and tables*  command has been extended with:

- a sheet of the title page in A4 and A3 format in landscape version,
- a sheet for describing project parameters in A4 and A3 format.

Additionally, the dialog window includes options that allow user to insert frames with a reference grid, centering or crop marks.



✓ CADprofi Electrical – extension of the „Modular units” command

The *Modular units*  command has been extended with new functionalities, including:

- inserting equipment with an assembly field (horizontally or vertically),
- horizontal or vertical installation,
- specifying user own dimensions or retrieving dimensions from a drawing, option to insert items from a list.

Article	A	B
3P, Icu=50 kA		
800A, 3P, 50kA	21.00	37.00
1000A, 3P, 50kA	21.00	37.00
3P, Icu=70 kA		
800A, 3P, 70kA	21.00	37.00
1000A, 3P, 70kA	21.00	37.00
4P, Icu=50 kA		
4P, Icu=70 kA		


 The 'Objects to insert' table is:

Name	L
1000A, 3P, 50kA	21
800A, 4P, 70kA	28
800A, 3P, 70kA	21

 The 'View and insertion point' section has:

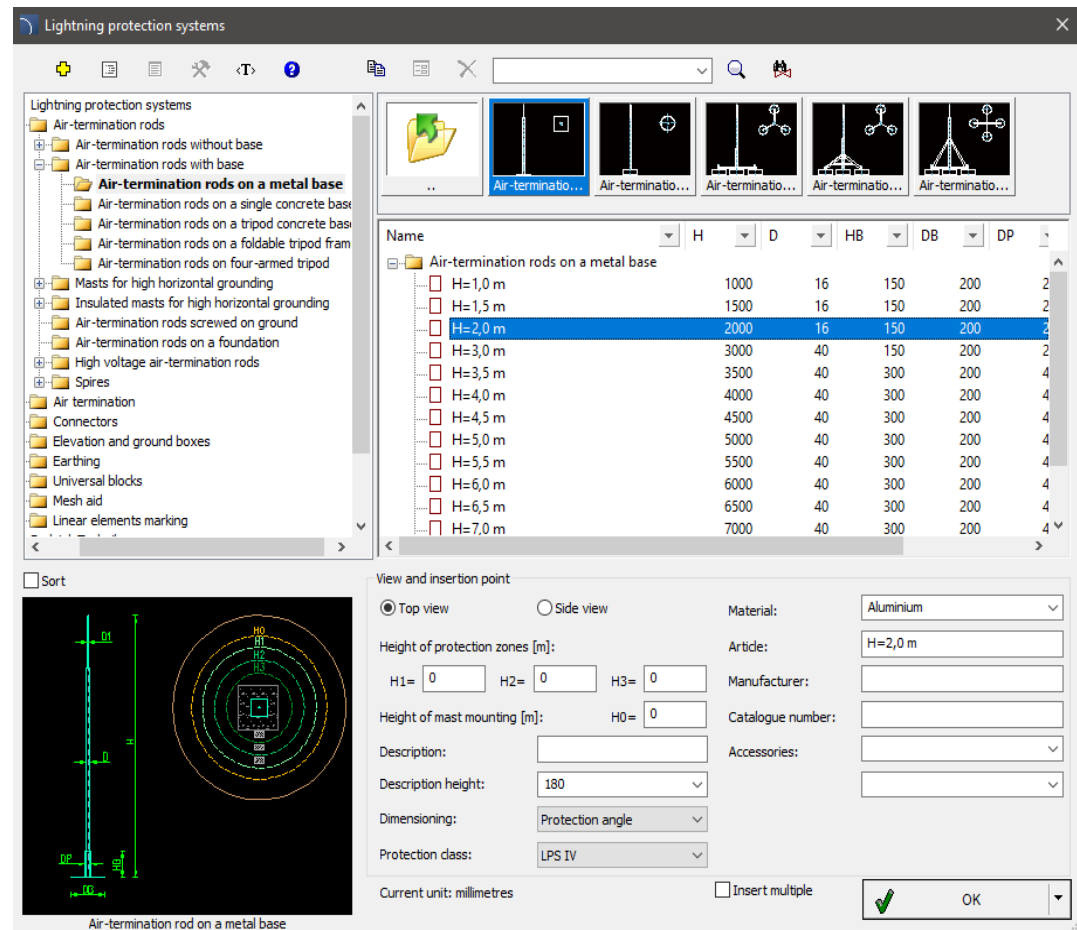
- 2D
- Symbol (multiline vertical)
- Symbol (multiline horizontal)
- Symbol (one-line vertical)
- Symbol (one-line horizontal)
- Labels' autonumbering
- HF: 47.5
- LF: 21
- Article: 800A, 3P, 50kA
- Manufacturer:
- Catalogue number:
- Other:
- Repeat command:
- Current unit: centimetres
- Object style:
- Insert from list:

✓ CADprofi Electrical – lightning protection systems

CADprofi Electrical has been extended with a new command *Lightning protection systems* . Library contains products used for designing a complete building lightning protection system, including:

- various types of masts (without a base, on a metal base, on a concrete base, on a tripod, on a quadruped, screwed into the ground, on the foundation or high-voltage) and spiers (chimney, on a ridge-tile base, gable base, as well as for high-seam sheet metal) ,
- lightning wires, insulating wires and tapes,
- various types of joints (cross, diagonal, universal, through, parallel, compensation, control and gutter),
- ground casings and facade boxes,
- class A (pins) and class B (hoops) earth electrodes.
- additional accessories for masts (adjustment sets, support rods and washers for roofing felt and membrane).

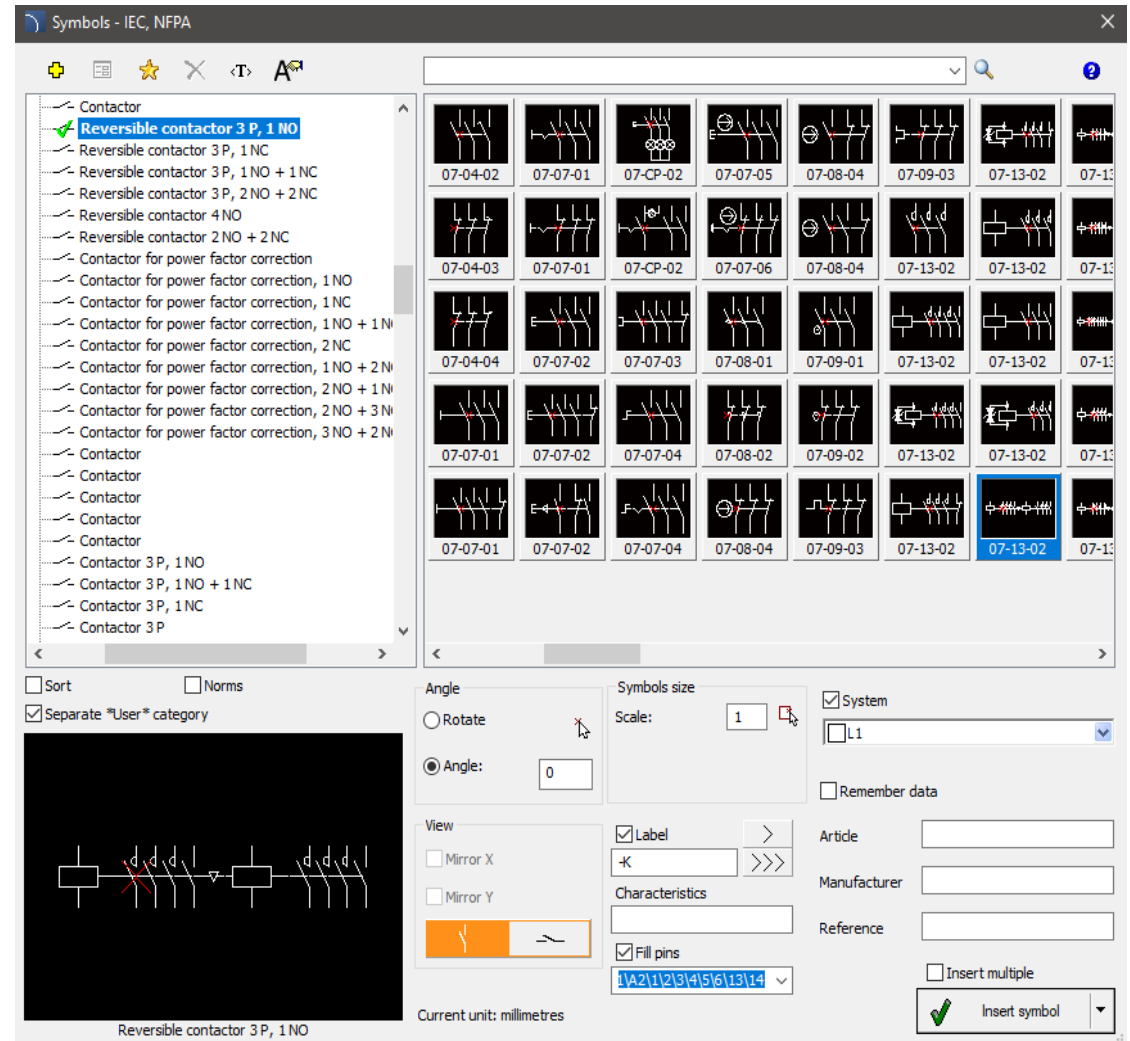
Program enables the design of installations in four LPS protection classes and the determination of mast protection zones using the rolling ball method and the cone method (protective angle).




✓ CADprofi Electrical – extension of IEC, NFPA library symbols

The *Symbols - IEC, NFPA* library available in CADprofi Electrical has been extended with new symbols, including:

- reversible contactor 3- and 4-pole,
- moulded case circuit breaker with motor operator,
- mechanical block,
- twilight switches (additional variants),
- phase control relays (additional variants),
- multifunctional relays (additional variants),
- single-phase and three-phase electric meters (additional variants).

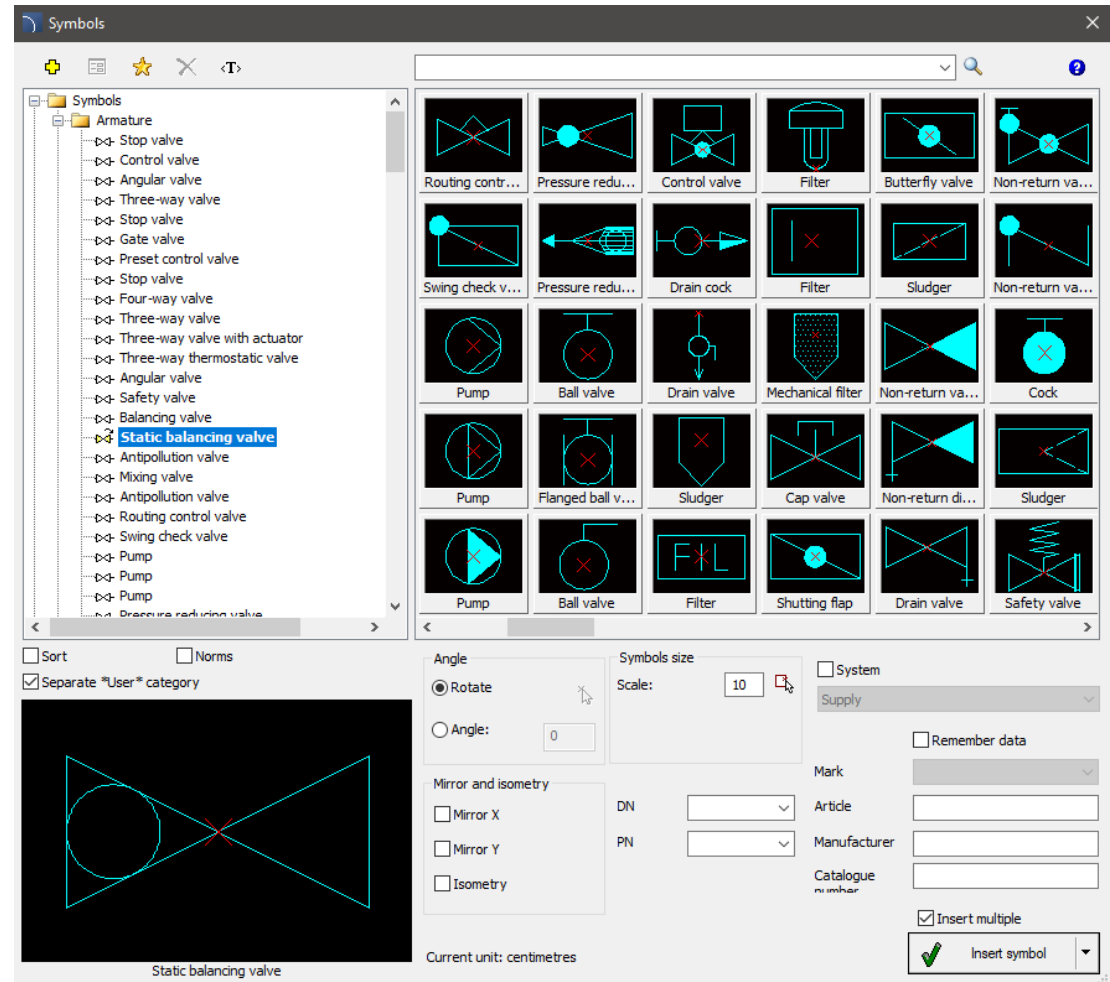


✓ CADprofi HVAC & Piping – extension of symbols library


Symbols  command has been extended with new valves, including:

- Angular valve with servo device,
- Static balancing valve,
- Thermostatic valve,
- Three-way thermostatic valve,
- Thermostatic valve with servo device,
- Strainer,
- Regulating valve,
- Angular valve with servo device,
- Drain-fill valve,
- Volumetric flow meter.

Additionally, some of the valves can be expanded with a drive from the existing list.



✓ CADprofi HVAC & Piping – access doors for ventilation ducts

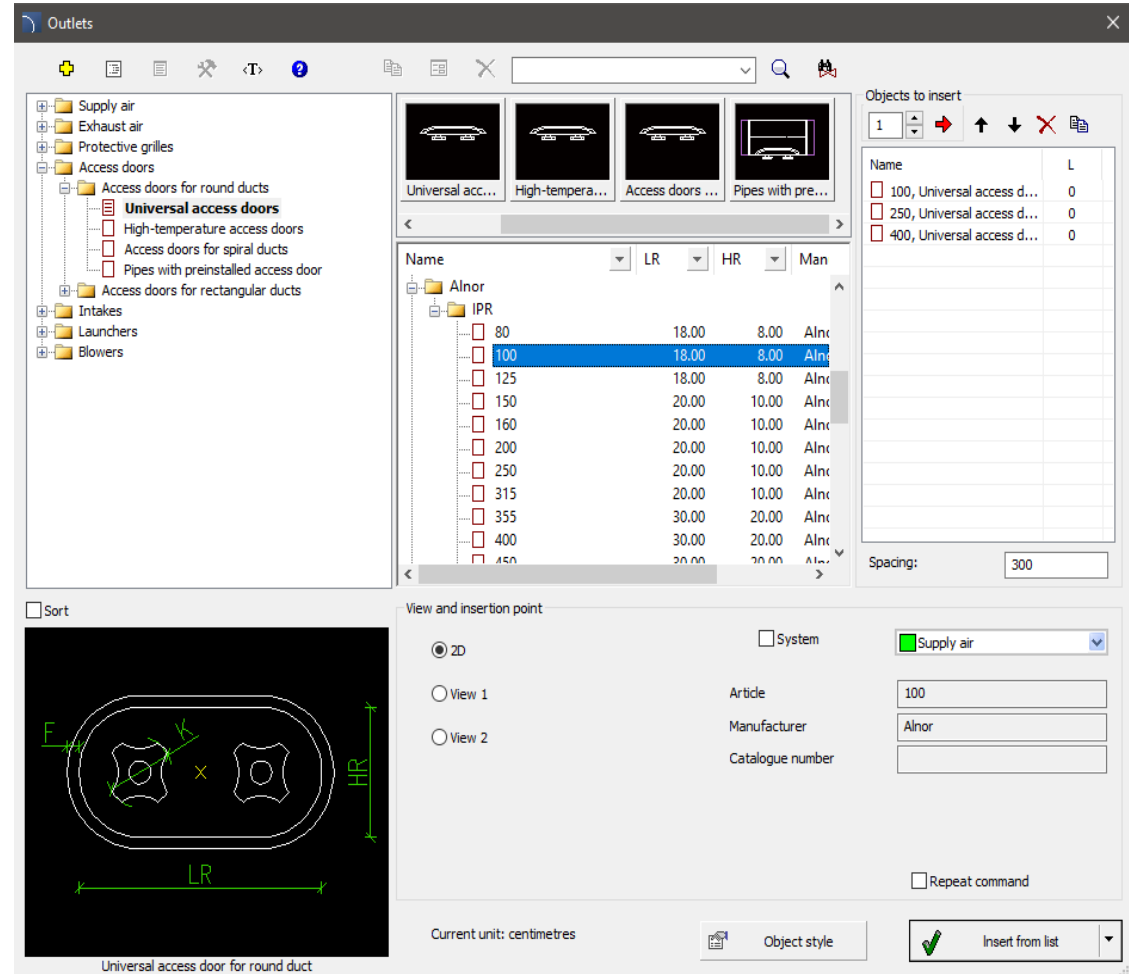
In the *Outlets*  command, a new category – *access doors* has been added, which includes:

- access doors for round ducts,
- access doors for rectangular ducts,

Newly created categories include:

- universal and high-temperature access doors,
- access doors for spiro pipe,
- pipes with preinstalled access doors,
- hinged and insulated access doors.

Products that were added are based on Alnor and Lindab catalogs.




The screenshot shows the 'Outlets' software interface. On the left, a tree view shows the 'Access doors' category expanded to 'Universal access doors'. The main window displays a list of products with columns for Name, LR, HR, and Manufacturer. The product '100' is selected. Below the list, there are options for 'View and insertion point' (2D, View 1, View 2), 'System' (Supply air), 'Article' (100), 'Manufacturer' (Alnor), and 'Catalogue number'. A 'Repeat command' checkbox is also present. At the bottom, the current unit is set to 'centimetres' and there is an 'Insert from list' button.

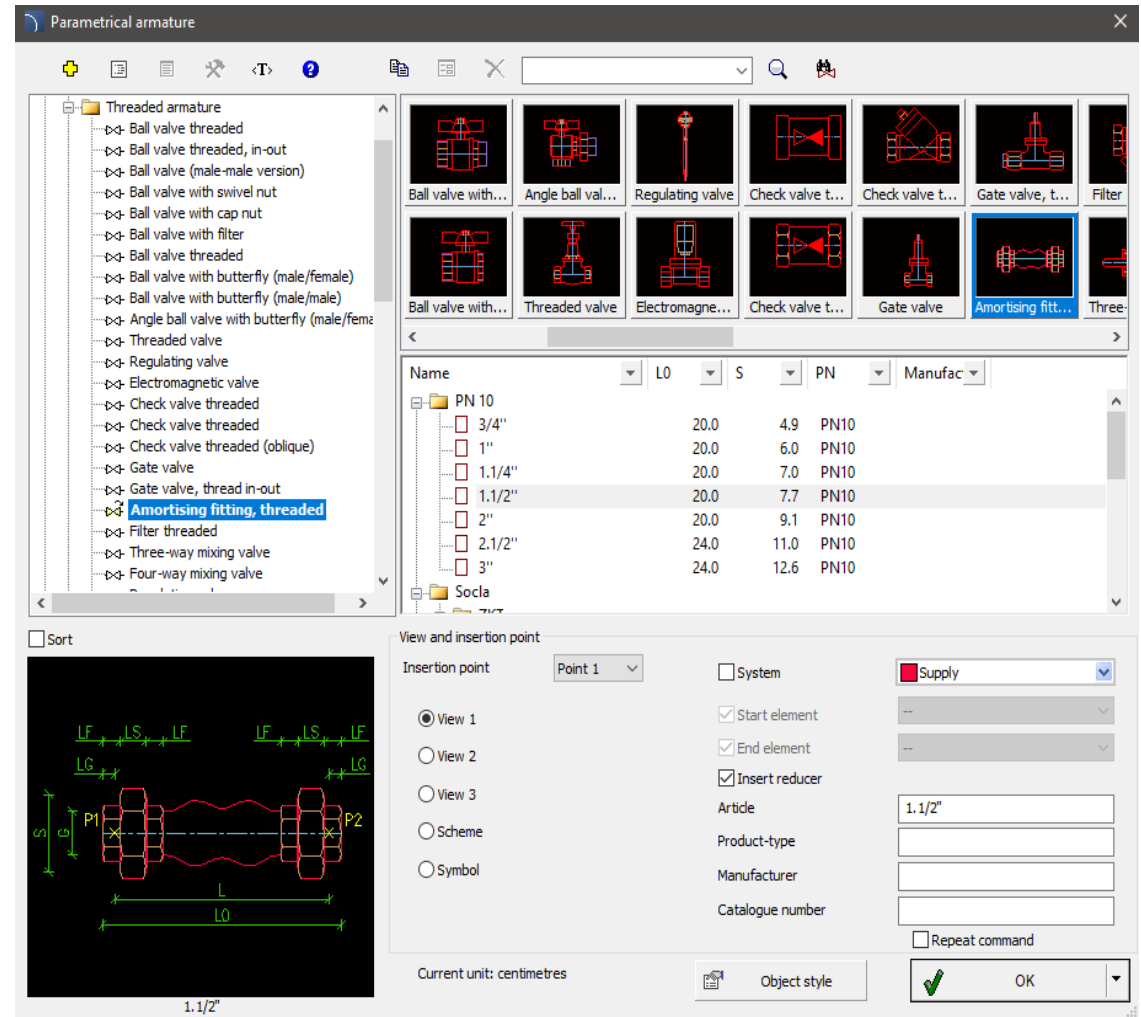
Name	LR	HR	Man
Alnor			
IPR			
80	18.00	8.00	Alnc
100	18.00	8.00	Alnc
125	18.00	8.00	Alnc
150	20.00	10.00	Alnc
160	20.00	10.00	Alnc
200	20.00	10.00	Alnc
250	20.00	10.00	Alnc
315	20.00	10.00	Alnc
355	30.00	20.00	Alnc
400	30.00	20.00	Alnc
450	30.00	20.00	Alnc

Universal access door for round duct

✓ CADprofi HVAC& Piping – extension of threaded armature library

The *Parametrical armature*  command has been extended with the following types of threaded fittings:

- amortising fitting, threaded based on Socla and Jafar manufacturers.
- antipollution valve (EA type male/female), based on Socla company specifications.




The screenshot displays the 'Parametrical armature' software interface. On the left, a tree view lists various fittings, with 'Amortising fitting, threaded' selected. The main area shows a grid of fitting icons, with the selected fitting highlighted. Below the grid is a table with columns for Name, L0, S, PN, and Manufac.

Name	L0	S	PN	Manufac
PN 10				
3/4"	20.0	4.9	PN10	
1"	20.0	6.0	PN10	
1.1/4"	20.0	7.0	PN10	
1.1/2"	20.0	7.7	PN10	
2"	20.0	9.1	PN10	
2.1/2"	24.0	11.0	PN10	
3"	24.0	12.6	PN10	

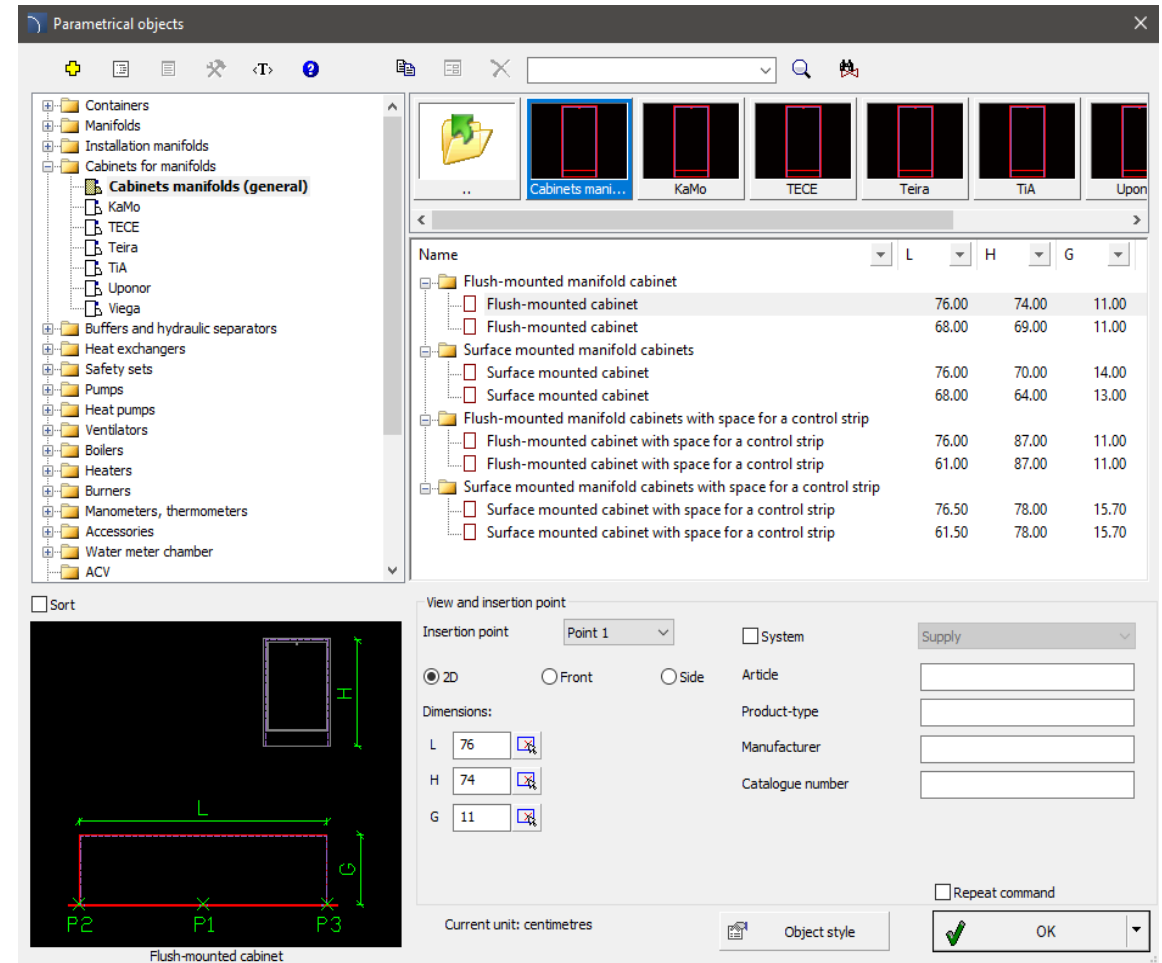
At the bottom, a 3D model of the selected fitting is shown with dimensions: L (total length), L0 (threaded length), S (height), and P1, P2 (port positions). The current unit is set to centimetres.

✓ CADprofi HVAC & Piping – cabinets for installation manifolds

The *Parametrical Objects*  command has been extended with surface and flush cabinets for installation manifolds (e.g. for central heating, radiator, floor, tap water, etc.). Cabinets from the following manufacturers are available:

- KaMo,
- TECE,
- Teira,
- TiA,
- Uponor,
- Viega.

The command also includes general cabinets for manifolds, which allow the designer to quickly and easily modify dimensions and create his own type of series of products.





The screenshot shows the 'Parametrical objects' window in CADprofi. The left pane displays a tree view of the object library, including 'Cabinets manifolds (general)' with sub-categories for KaMo, TECE, Teira, TiA, and Uponor. The right pane shows a list of cabinet types with their dimensions (L, H, G) in centimeters.

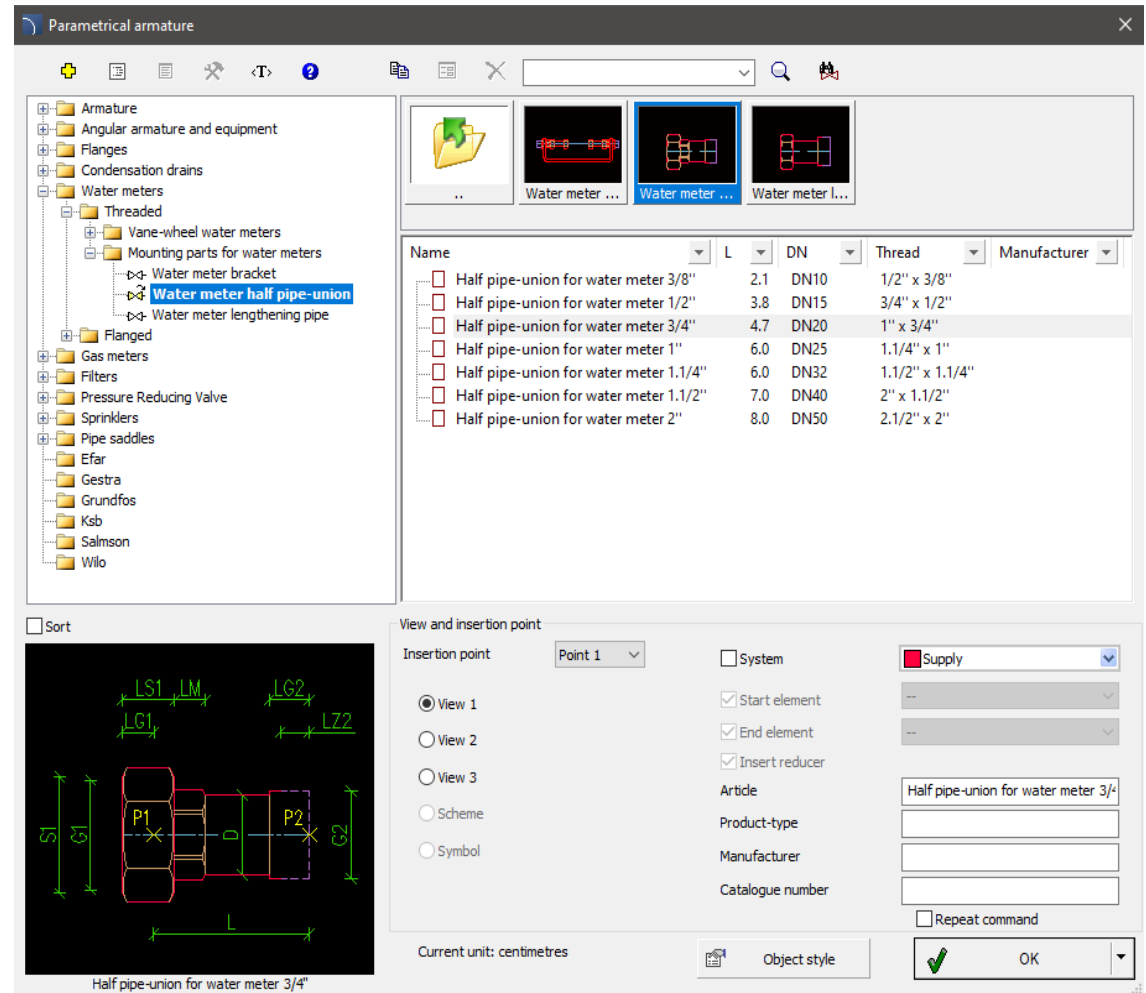
Name	L	H	G
Flush-mounted manifold cabinet	76.00	74.00	11.00
Flush-mounted cabinet	68.00	69.00	11.00
Surface mounted manifold cabinets	76.00	70.00	14.00
Surface mounted cabinet	68.00	64.00	13.00
Flush-mounted manifold cabinets with space for a control strip	76.00	87.00	11.00
Flush-mounted cabinet with space for a control strip	61.00	87.00	11.00
Surface mounted manifold cabinets with space for a control strip	76.50	78.00	15.70
Surface mounted cabinet with space for a control strip	61.50	78.00	15.70

Below the list, there is a 2D diagram of a 'Flush-mounted cabinet' with dimensions L, H, and G. The diagram shows the cabinet's footprint and height, with points P1, P2, and P3 marked on the bottom edge. The current unit is set to centimeters.

✓ CADprofi HVAC & Piping – water meters half pipe-unions and lengthening pipes

The *Parametrical armature*  command has been extended with *water meters half pipe-unions* and *water meters lengthening pipes*.

Additionally the *Parametrical armature*  command has been extended with new types of threaded armature, including *angle* and *straight butterfly valves*.




The screenshot shows the 'Parametrical armature' software interface. On the left is a tree view of the software's library, with 'Water meter half pipe-union' selected under 'Threaded' > 'Water meters'. The main area displays a list of available components:

Name	L	DN	Thread	Manufacturer
Half pipe-union for water meter 3/8"	2.1	DN10	1/2" x 3/8"	
Half pipe-union for water meter 1/2"	3.8	DN15	3/4" x 1/2"	
Half pipe-union for water meter 3/4"	4.7	DN20	1" x 3/4"	
Half pipe-union for water meter 1"	6.0	DN25	1.1/4" x 1"	
Half pipe-union for water meter 1.1/4"	6.0	DN32	1.1/2" x 1.1/4"	
Half pipe-union for water meter 1.1/2"	7.0	DN40	2" x 1.1/2"	
Half pipe-union for water meter 2"	8.0	DN50	2.1/2" x 2"	

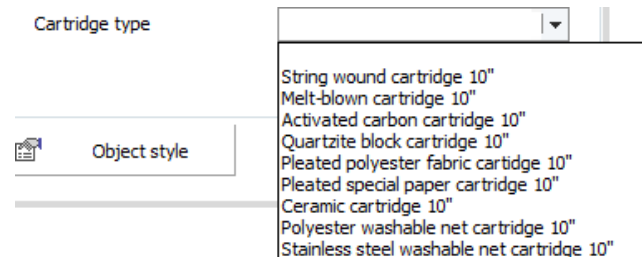
Below the list is a technical drawing of a 'Half pipe-union for water meter 3/4"'. The drawing shows a cross-section of the component with dimensions: total length L, diameter D, and two end diameters LS1 and LS2. The drawing is labeled with 'P1' and 'P2' at the connection points.

The right side of the interface contains configuration options for the selected component, including 'View and insertion point', 'Insertion point' (Point 1), 'System' (unchecked), 'Supply' (selected), and checkboxes for 'Start element', 'End element', and 'Insert reducer'. The 'Article' field is populated with 'Half pipe-union for water meter 3/4"'. Other fields for 'Product-type', 'Manufacturer', and 'Catalogue number' are empty. The 'Repeat command' checkbox is also unchecked. The current unit is set to 'centimetres'.

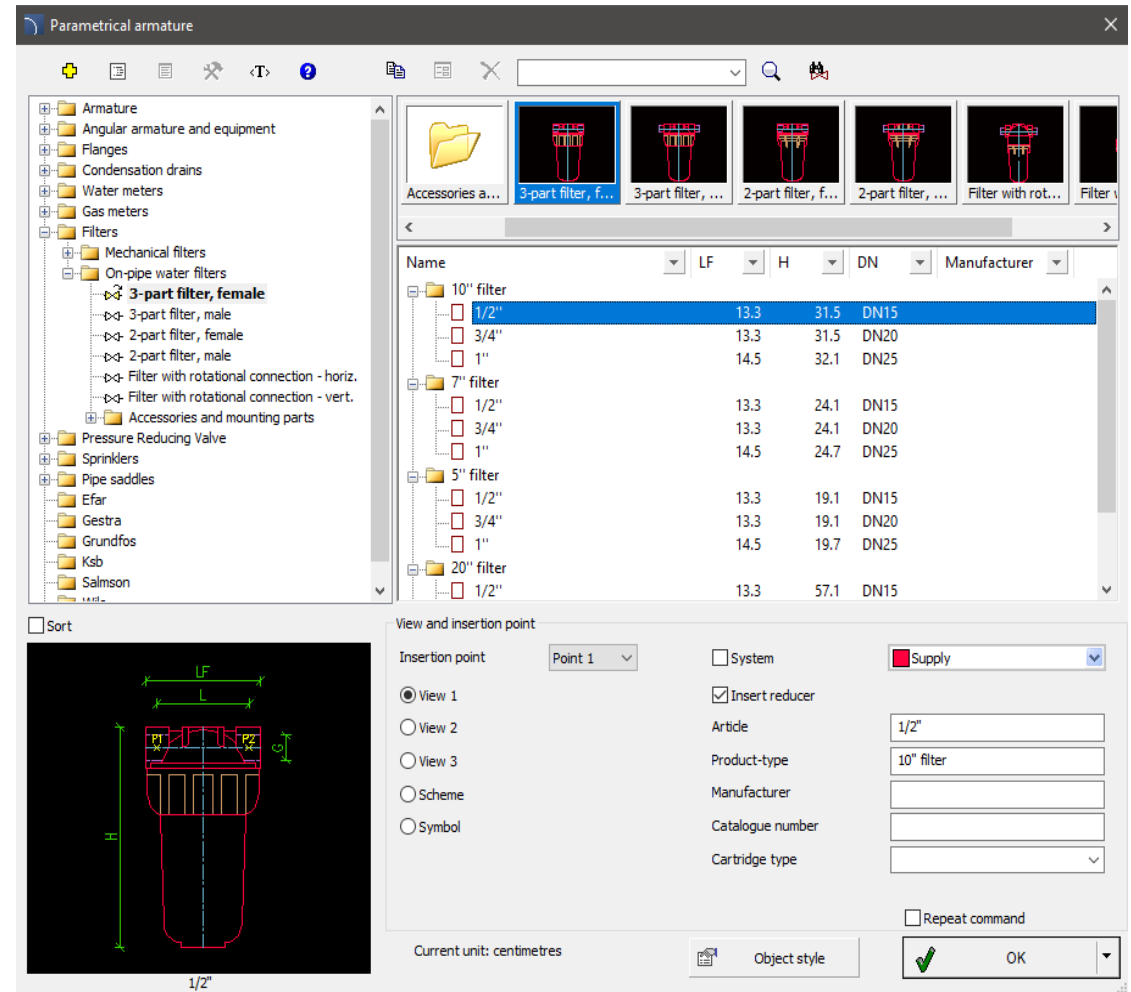
✓ CADprofi HVAC & Piping – on-pipe water filters

The *Parametrical armature*  command has been extended with *on-pipe water filters* together with accessories and mounting elements.

Filters have the ability to quickly select predefined filter cartridges, such as: string filter, carbon filter, ceramic filter, etc.



Object style



Parametrical armature

Tree view:

- Armature
 - Angular armature and equipment
 - Flanges
 - Condensation drains
 - Water meters
 - Gas meters
 - Filters
 - Mechanical filters
 - On-pipe water filters
 - 3-part filter, female
 - 3-part filter, male
 - 2-part filter, female
 - 2-part filter, male
 - Filter with rotational connection - horiz.
 - Filter with rotational connection - vert.
 - Accessories and mounting parts
 - Pressure Reducing Valve
 - Sprinklers
 - Pipe saddles
 - Efar
 - Gestra
 - Grundfos
 - Ksb
 - Salmson

Table:

Name	LF	H	DN	Manufacturer
10" filter				
1/2"	13.3	31.5	DN15	
3/4"	13.3	31.5	DN20	
1"	14.5	32.1	DN25	
7" filter				
1/2"	13.3	24.1	DN15	
3/4"	13.3	24.1	DN20	
1"	14.5	24.7	DN25	
5" filter				
1/2"	13.3	19.1	DN15	
3/4"	13.3	19.1	DN20	
1"	14.5	19.7	DN25	
20" filter				
1/2"	13.3	57.1	DN15	

Configuration panel:

View and insertion point

Insertion point: Point 1

System Supply

View 1

View 2

View 3

Scheme

Symbol

Insert reducer

Article: 1/2"

Product-type: 10" filter

Manufacturer:

Catalogue number:

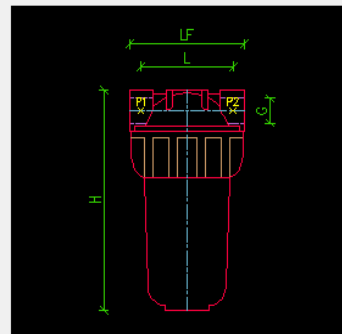
Cartridge type:

Repeat command


Current unit: centimetres


Object style

OK

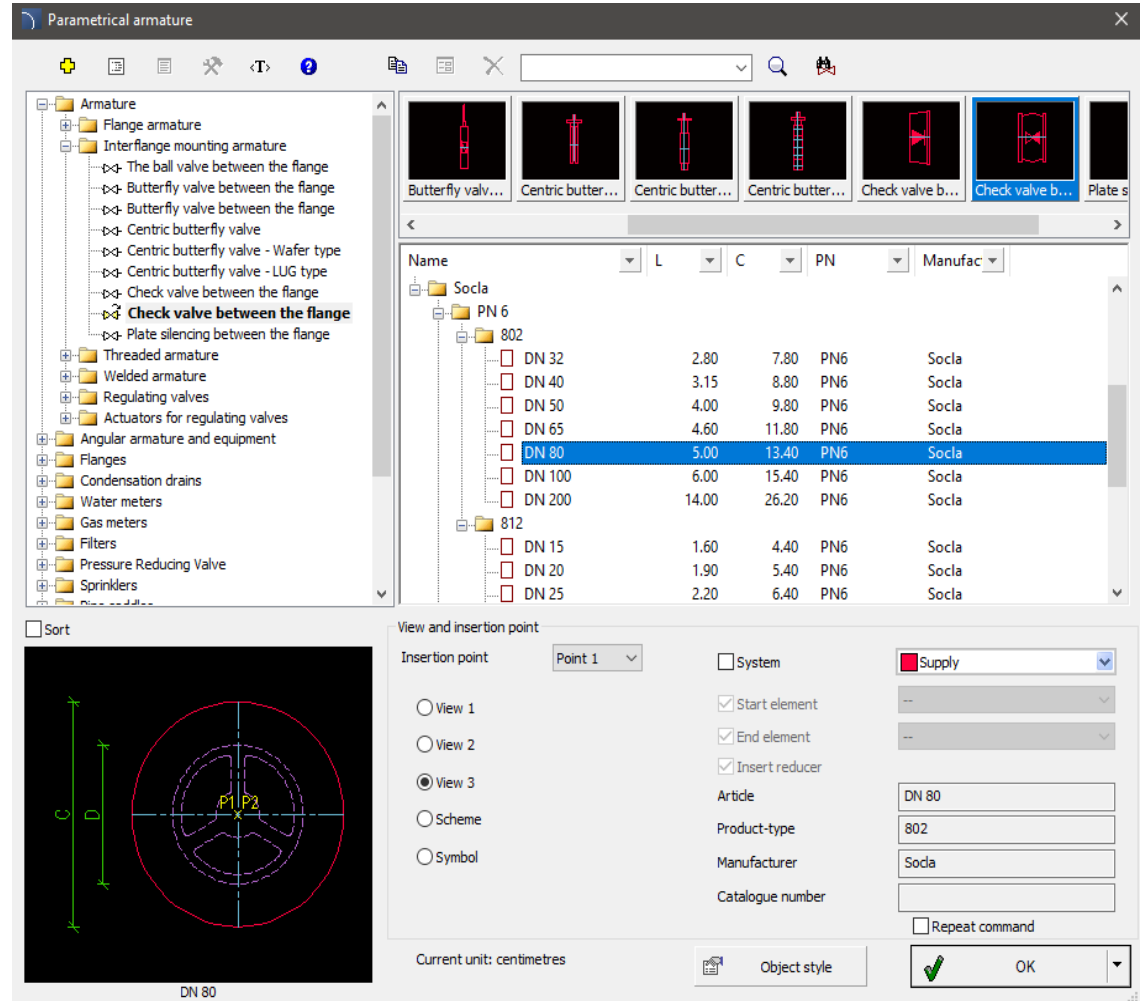


✓ CADprofi HVAC & Piping – interflange mounting armature

The *Parametrical armature*  command has been extended with SOCLA company valves.

Additionally the *Parametrical armature*  command has been extended with centric butterfly valves, including:


- Centric butterfly valve – Wafer type,
- Centric butterfly valve – LUG type.



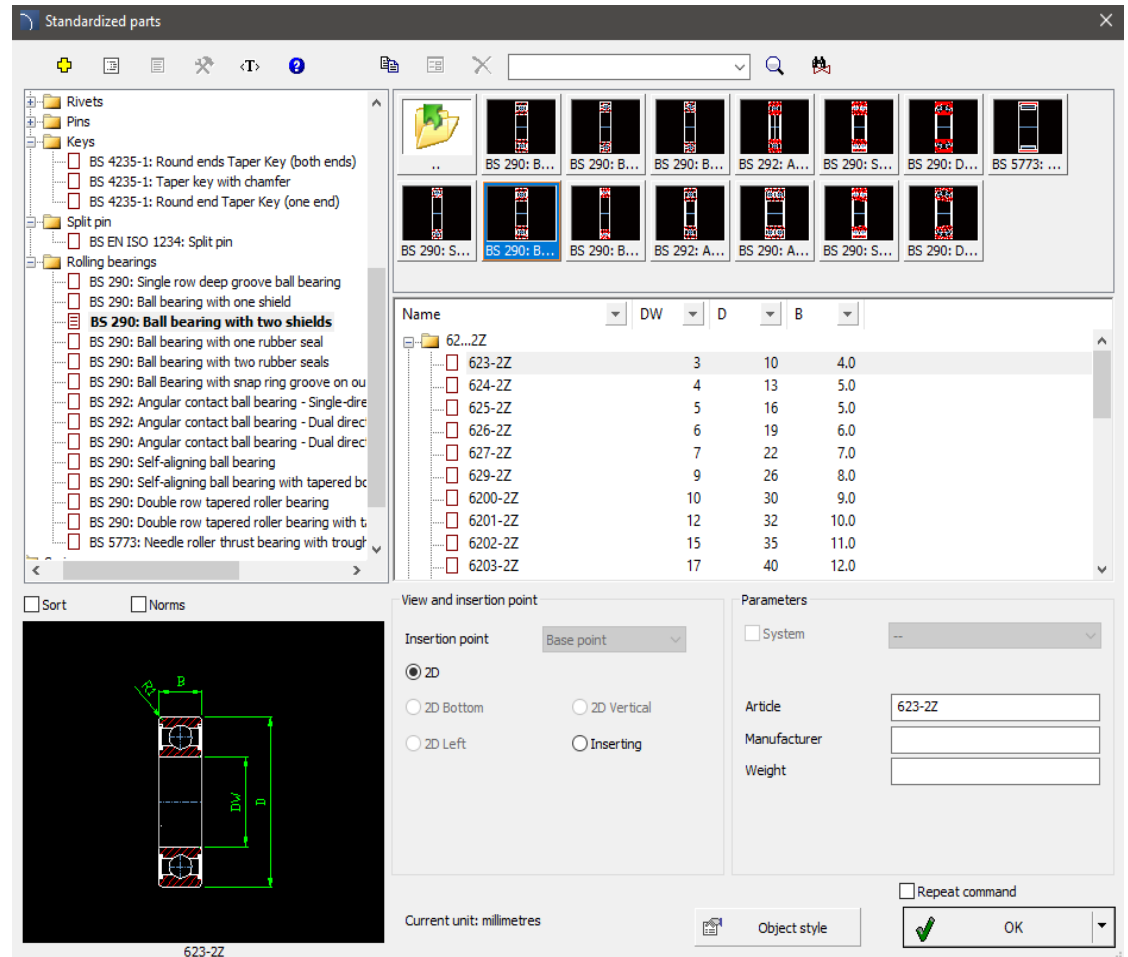
The screenshot displays the 'Parametrical armature' software interface. On the left is a tree view of armature types, including 'Interflange mounting armature' and 'Check valve between the flange'. The main area shows a table of valve specifications for SOCLA PN 6 valves. The 'DN 80' valve is selected and highlighted in blue. Below the table is a 2D technical drawing of the selected DN 80 valve, showing its circular flange and internal components, with dimensions C and D indicated. The bottom right panel contains configuration options for the insertion point, system, and element type, with 'Supply' selected and 'DN 80' specified in the article field.

Name	L	C	PN	Manufac
DN 32	2.80	7.80	PN6	Socla
DN 40	3.15	8.80	PN6	Socla
DN 50	4.00	9.80	PN6	Socla
DN 65	4.60	11.80	PN6	Socla
DN 80	5.00	13.40	PN6	Socla
DN 100	6.00	15.40	PN6	Socla
DN 200	14.00	26.20	PN6	Socla
DN 15	1.60	4.40	PN6	Socla
DN 20	1.90	5.40	PN6	Socla
DN 25	2.20	6.40	PN6	Socla

✓ CADprofi Mechanical – rolling bearings according to BS standard

The *Standardized parts*  command has been extended with a new category – rolling bearings (British Standards). This category contains:

- ball bearing with a cylindrical bore,
- ball bearing with one or two protective plates,
- ball bearing with one or two rubber seals,
- ball bearing with a groove on the outer ring,
- single row angular contact ball bearing series 72 and 73 and QJ2 and QJ3,
- self-aligning ball bearing with a cylindrical and tapered bore,
- double-row spherical roller bearing with a cylindrical and tapered bore,
- thin-wall needle roller bearing with a through ring and cage.



The screenshot shows the 'Standardized parts' dialog box in CADprofi. The left pane displays a tree view of categories including Rivets, Pins, Keys, Split pin, and Rolling bearings. The 'Rolling bearings' category is expanded, showing various bearing types such as 'BS 290: Single row deep groove ball bearing' and 'BS 290: Ball bearing with two shields'. The right pane shows a grid of bearing icons, with 'BS 290: B...' selected. Below the grid is a table listing bearings with their dimensions (DW, D, B).

Name	DW	D	B
62...2Z			
623-2Z	3	10	4.0
624-2Z	4	13	5.0
625-2Z	5	16	5.0
626-2Z	6	19	6.0
627-2Z	7	22	7.0
629-2Z	9	26	8.0
6200-2Z	10	30	9.0
6201-2Z	12	32	10.0
6202-2Z	15	35	11.0
6203-2Z	17	40	12.0

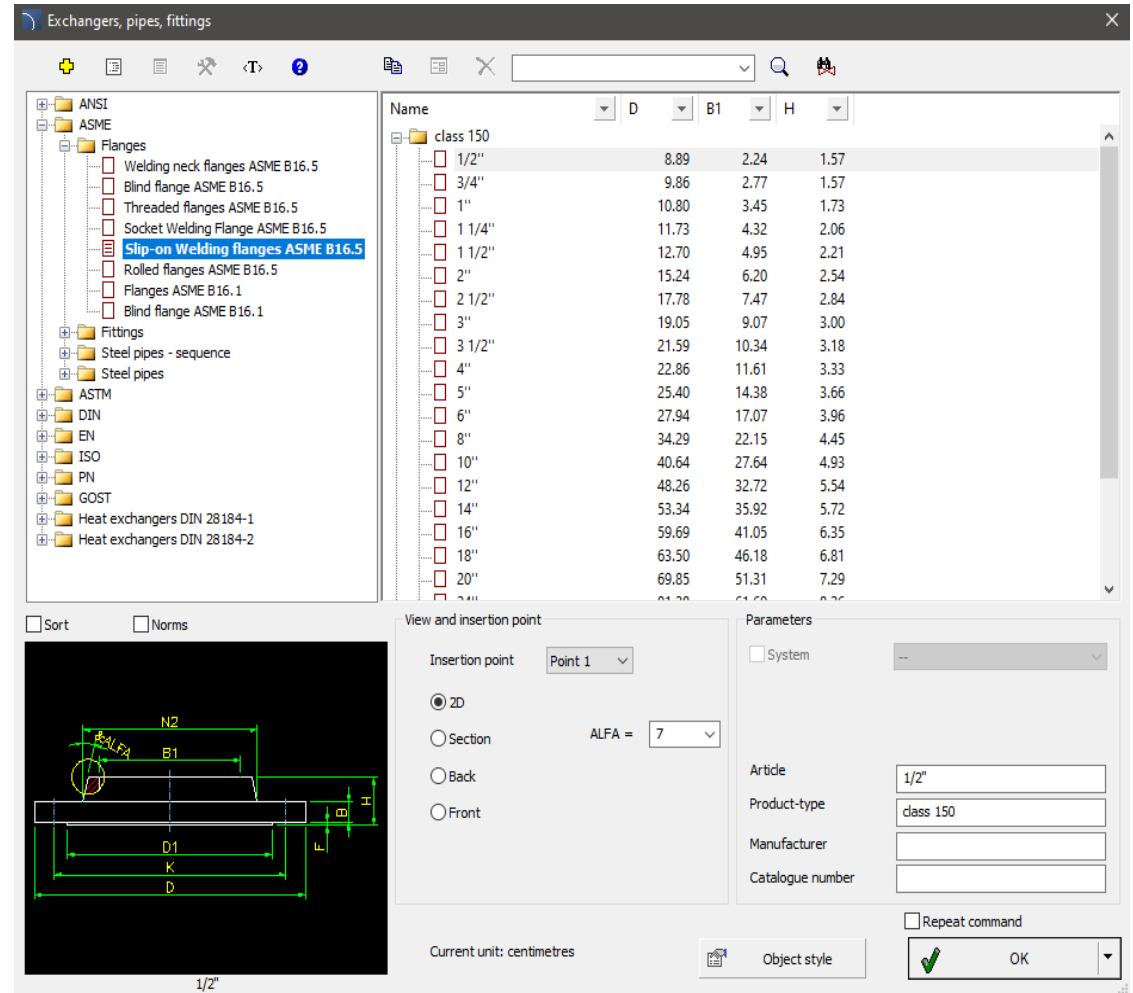
Below the table, there are options for 'View and insertion point' (2D, 2D Bottom, 2D Vertical, 2D Left, Inserting) and 'Parameters' (System, Article, Manufacturer, Weight). The 'Article' field is set to '623-2Z'. At the bottom, there is a 'Repeat command' checkbox and an 'OK' button.

The 2D diagram at the bottom left shows a cross-section of a bearing with dimensions labeled: DW (width), D (outer diameter), and B (inner diameter). The bearing is labeled '623-2Z'.

✓ CADprofi Mechanical – flanges according to ASME standard


Flanges prepared according to the ASME standard have been introduced to the *Exchangers, pipes, fittings* command, including:

- Welding neck flanges **ASME B16.5**,
- Blind flange **ASME B16.5**,
- Threaded flanges **ASME B16.5**,
- Socket Welding flange **ASME B16.5**
- Slip-on Welding flanges **ASME B16.5**,
- Rolled flanges **ASME B16.5**,
- Flanges **ASME B16.1**,
- Blind flanges **ASME B16.1**.



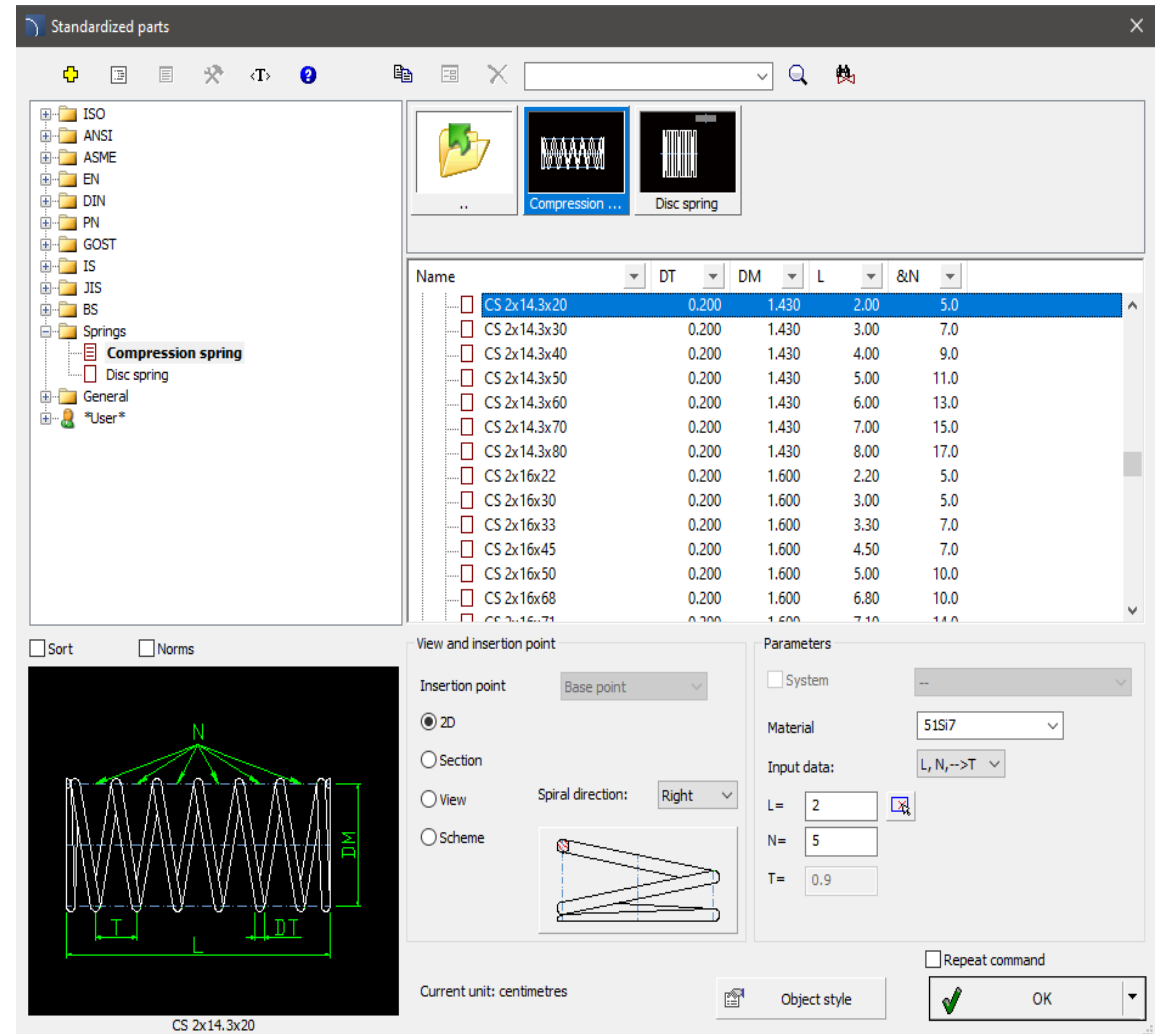
Name	D	B1	H
class 150			
1/2"	8.89	2.24	1.57
3/4"	9.86	2.77	1.57
1"	10.80	3.45	1.73
1 1/4"	11.73	4.32	2.06
1 1/2"	12.70	4.95	2.21
2"	15.24	6.20	2.54
2 1/2"	17.78	7.47	2.84
3"	19.05	9.07	3.00
3 1/2"	21.59	10.34	3.18
4"	22.86	11.61	3.33
5"	25.40	14.38	3.66
6"	27.94	17.07	3.96
8"	34.29	22.15	4.45
10"	40.64	27.64	4.93
12"	48.26	32.72	5.54
14"	53.34	35.92	5.72
16"	59.69	41.05	6.35
18"	63.50	46.18	6.81
20"	69.85	51.31	7.29
24"	81.28	61.28	8.26

✓ CADprofi Mechanical – springs

The *Standardized parts*  command has been extended with the *Springs* category (compression, disc).



[Watch movie](#)



The 'Standardized parts' dialog box displays a tree view of standards on the left, including ISO, ANSI, ASME, EN, DIN, PN, GOST, IS, JIS, BS, Springs, and General. The 'Springs' category is expanded, showing 'Compression spring' and 'Disc spring'. The 'Compression spring' sub-category is selected, and a list of spring specifications is shown in the center. The list includes columns for Name, DT, DM, L, and &N. The selected item is 'CS 2x14.3x20'.

Name	DT	DM	L	&N
CS 2x14.3x20	0.200	1.430	2.00	5.0
CS 2x14.3x30	0.200	1.430	3.00	7.0
CS 2x14.3x40	0.200	1.430	4.00	9.0
CS 2x14.3x50	0.200	1.430	5.00	11.0
CS 2x14.3x60	0.200	1.430	6.00	13.0
CS 2x14.3x70	0.200	1.430	7.00	15.0
CS 2x14.3x80	0.200	1.430	8.00	17.0
CS 2x16x22	0.200	1.600	2.20	5.0
CS 2x16x30	0.200	1.600	3.00	5.0
CS 2x16x33	0.200	1.600	3.30	7.0
CS 2x16x45	0.200	1.600	4.50	7.0
CS 2x16x50	0.200	1.600	5.00	10.0
CS 2x16x68	0.200	1.600	6.80	10.0
CS 2x16x71	0.200	1.600	7.10	11.0

The 3D model of the spring shows the following parameters:


- Material: 51Si7
- Input data: L, N_r->T
- L = 2
- N = 5
- T = 0.9

The 3D model also shows the following dimensions:

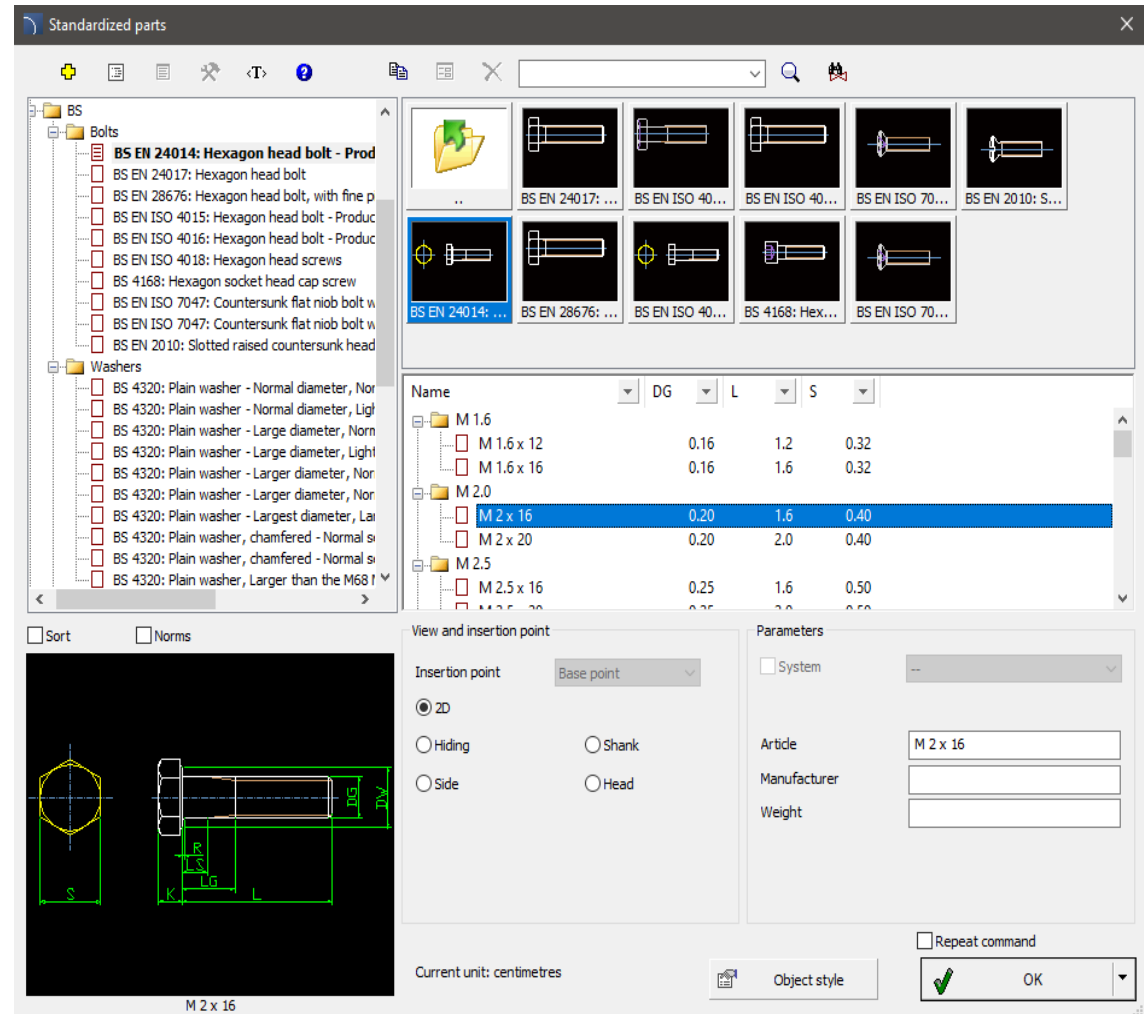
- DT (Wire diameter): 0.200
- DM (Mean diameter): 1.430
- L (Length): 2.00
- &N (Number of turns): 5.0

The current unit is centimetres. The 'Repeat command' checkbox is checked. The 'OK' button is highlighted.

✓ CADprofi Mechanical – British Standards (BS)

The *Standardized parts*  prepared according to British Standards (BS) have been added to CADprofi Mechanical, including:

- Hex head screws
- Hexagonal nuts,
- Round washers,
- Ball head and flat head rivets,
- Cylindrical, conical, spring pins,
- Pins with tapered and parallel notches,
- Rivet pins,
- Cotter pins,
- Holes,
- Rolled head screws,
- Countersunk head screws,
- Rounded and beveled mortise wedges,
- Bearings.



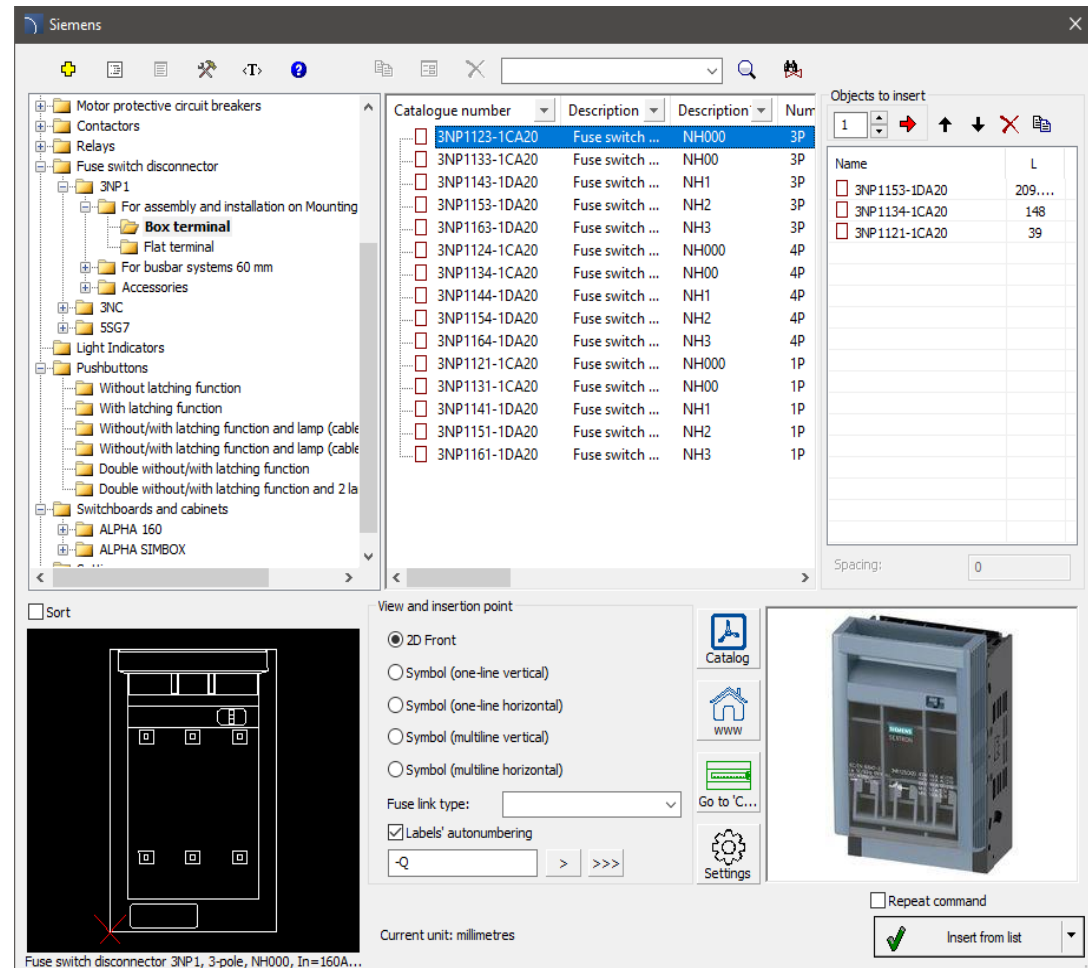
✓ CADprofi OEM – extension of the Siemens library

Siemens library has been extended and updated with:

- 3NP1, 3NC, 5SG7 fuse switch disconnectors and accessories.
- light indicators,
- Pushbuttons,
- switchboards and cabinets ALPHA 160 and ALPHA SIMBOX (surface-mounted, flush-mounted and plaster/cardboard walls).

Additionally, the product library dialog box has been rebuilt. Real camera views, PDF catalogs and links to pages with technical and product description information have been added.

In addition, it is possible to automatically select a housing based on the devices used in the project and determine the size of labels for products.

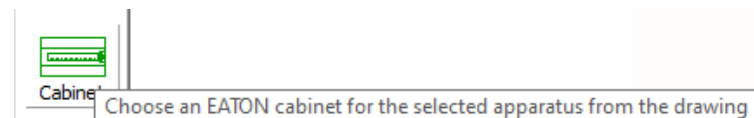
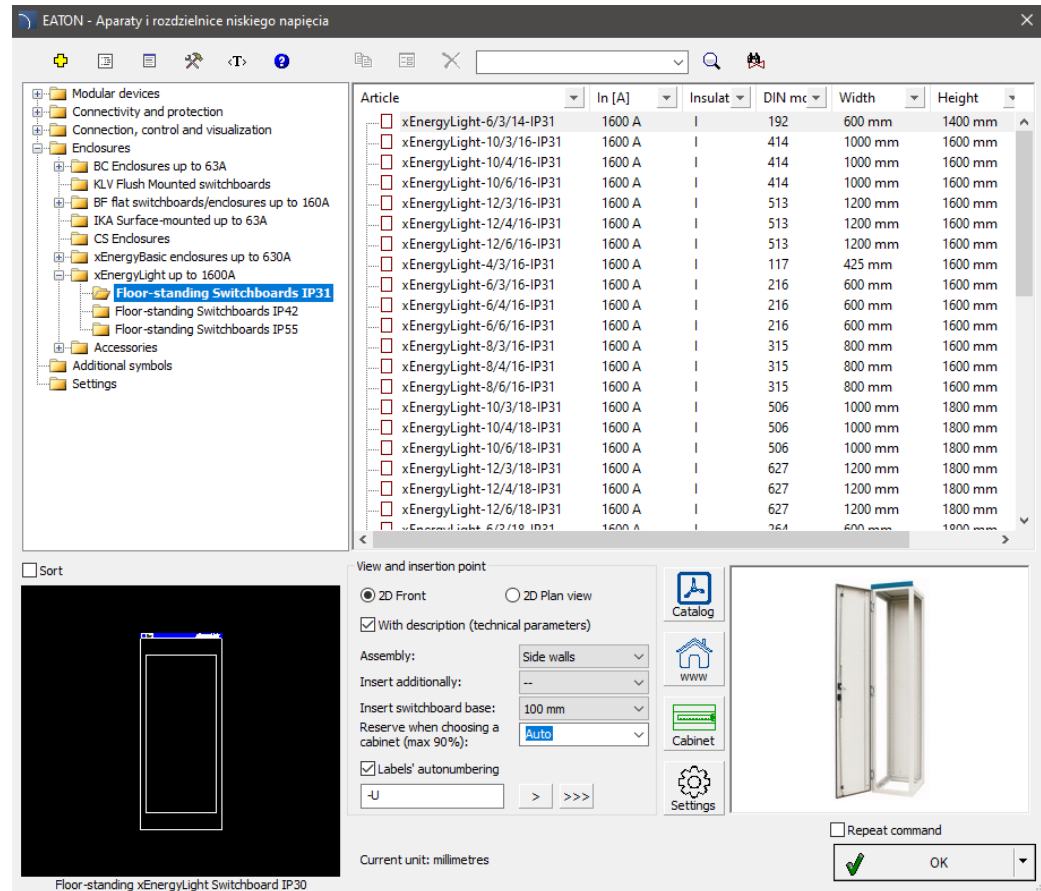


✓ CADprofi OEM – extension of Eaton product libraries

EATON library has been extended with additional enclosures:

- xEnergyBasic up to 630A (floor-standing switchboards IP30 and IP55),
- xEnergyLight do 1600A (floor-standing switchboards IP31, IP42 and IP55),
- accessories to xEnergyBasic and xEnergyLight. BC enclosures up to 63A (surface and flush mounted).
- KLV flush mounted switchboards.
- IKA surface mounted up to 63A.
- BF flat switchboards/enclosures up to 160A (surface and flush mounted).
- CS enclosures.

In the new version of the program, the dialog box of floor-standing switchgears has been extended with the option of selecting the appropriate cabinet based on the apparatus selected from the drawing. Additionally selection lists that specify the assembly method, plinth type or a variant with a door view has also been added.

EATON - Aparaty i rozdzielnice niskiego napięcia

Article	In [A]	Insulat	DIN mc	Width	Height
xEnergyLight-6/3/14-IP31	1600 A		192	600 mm	1400 mm
xEnergyLight-10/3/16-IP31	1600 A		414	1000 mm	1600 mm
xEnergyLight-10/4/16-IP31	1600 A		414	1000 mm	1600 mm
xEnergyLight-10/6/16-IP31	1600 A		414	1000 mm	1600 mm
xEnergyLight-12/3/16-IP31	1600 A		513	1200 mm	1600 mm
xEnergyLight-12/4/16-IP31	1600 A		513	1200 mm	1600 mm
xEnergyLight-12/6/16-IP31	1600 A		513	1200 mm	1600 mm
xEnergyLight-4/3/16-IP31	1600 A		117	425 mm	1600 mm
xEnergyLight-6/3/16-IP31	1600 A		216	600 mm	1600 mm
xEnergyLight-6/4/16-IP31	1600 A		216	600 mm	1600 mm
xEnergyLight-6/6/16-IP31	1600 A		216	600 mm	1600 mm
xEnergyLight-8/3/16-IP31	1600 A		315	800 mm	1600 mm
xEnergyLight-8/4/16-IP31	1600 A		315	800 mm	1600 mm
xEnergyLight-8/6/16-IP31	1600 A		315	800 mm	1600 mm
xEnergyLight-10/3/18-IP31	1600 A		506	1000 mm	1800 mm
xEnergyLight-10/4/18-IP31	1600 A		506	1000 mm	1800 mm
xEnergyLight-10/6/18-IP31	1600 A		506	1000 mm	1800 mm
xEnergyLight-12/3/18-IP31	1600 A		627	1200 mm	1800 mm
xEnergyLight-12/4/18-IP31	1600 A		627	1200 mm	1800 mm
xEnergyLight-12/6/18-IP31	1600 A		627	1200 mm	1800 mm

Sort

View and insertion point

2D Front 2D Plan view

With description (technical parameters)

Assembly: Side walls

Insert additionally: --

Insert switchboard base: 100 mm

Reserve when choosing a cabinet (max 90%): Auto

Labels' autonumbering

-U > >>>

Current unit: millimetres

Repeat command

OK

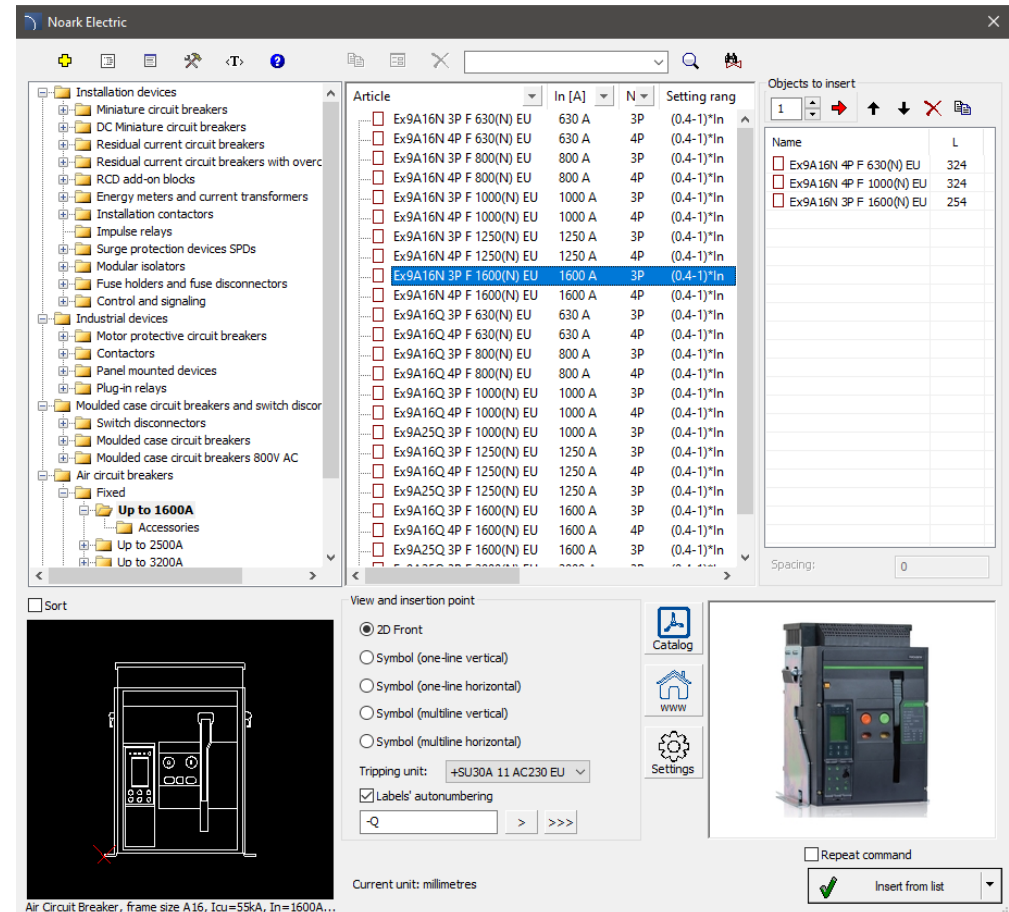


✓ CADprofi – extension of Noark Electric product libraries

Noark Electric library has been updated and extended with:

- slim type overcurrent circuit breakers,
- overcurrent circuit breakers for PV applications,
- single-module electronic residual current devices with overcurrent protection,
- modular bells,
- control clocks,
- dusk and stair switches,
- plug-in, timer monitoring relays,
- control cassettes,
- power supplies,
- installation contactors with the possibility of manual control,
- miniature reversing contactors,
- industrial reversing contactors,
- energy meters,
- compact air circuit breakers,
- compact disconnectors,
- accessories for installation devices, industrial apparatus and power switches.

In addition, the product library dialog windows were completely rebuilt, a new classification tree layout was created, real views of devices were added, and personalized technical and identification data of the products were adapted to device series.

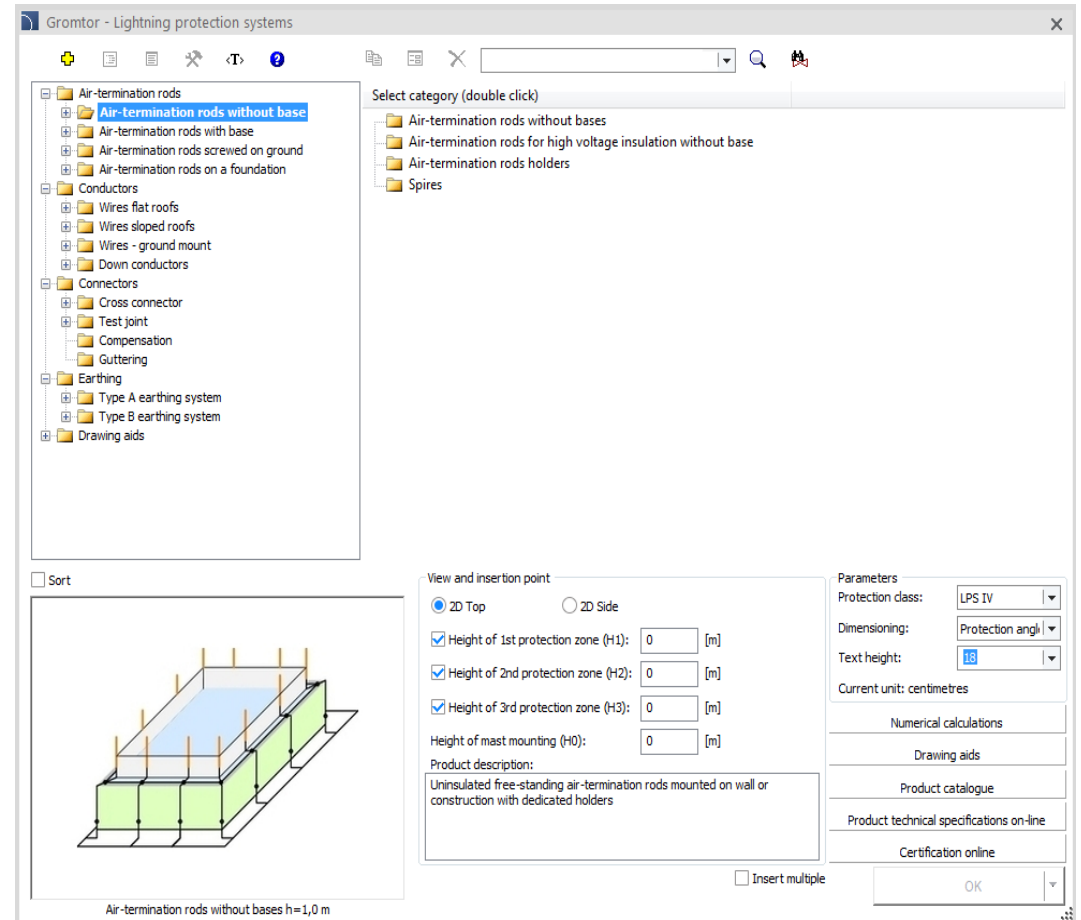


✓ CADprofi OEM – new Gromtor library

A system for designing lightning protection systems by using *Gromtor* products has been introduced to the CADprofi program. The library includes:

- masts and spiers,
- lightning wires, insulating wires,
- various types of joints (cross, control, gutter, etc.),
- type A (pin) and type B (hoop iron) earthing systems,
- additional drawing aids,
- dimensioning of protection zones by using the cone and rolling sphere method.

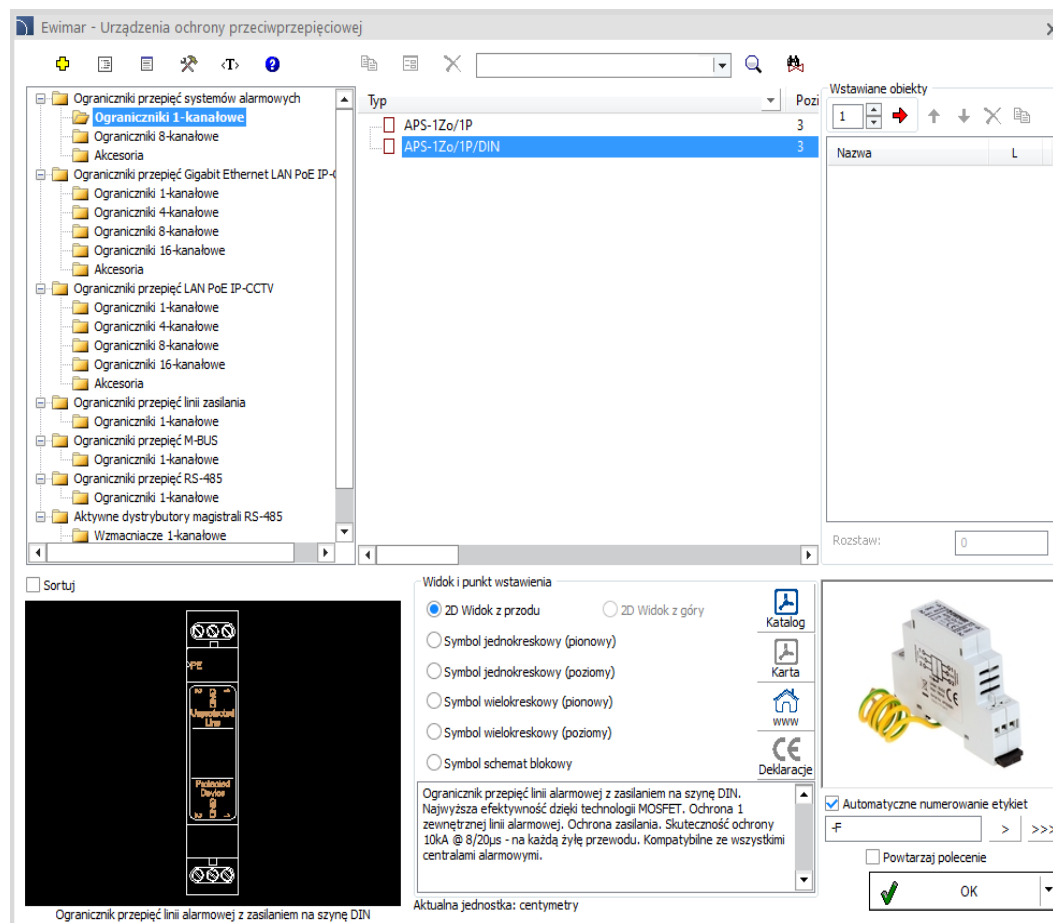
Gromtor CAD program has received an award at the Elektrotechnika 2023 Fair in the category "Best product of the Fair".



✓ CADprofi OEM – new Ewimar library

A library of *Ewimar* surge protection devices has been added to CADprofi. The library includes:

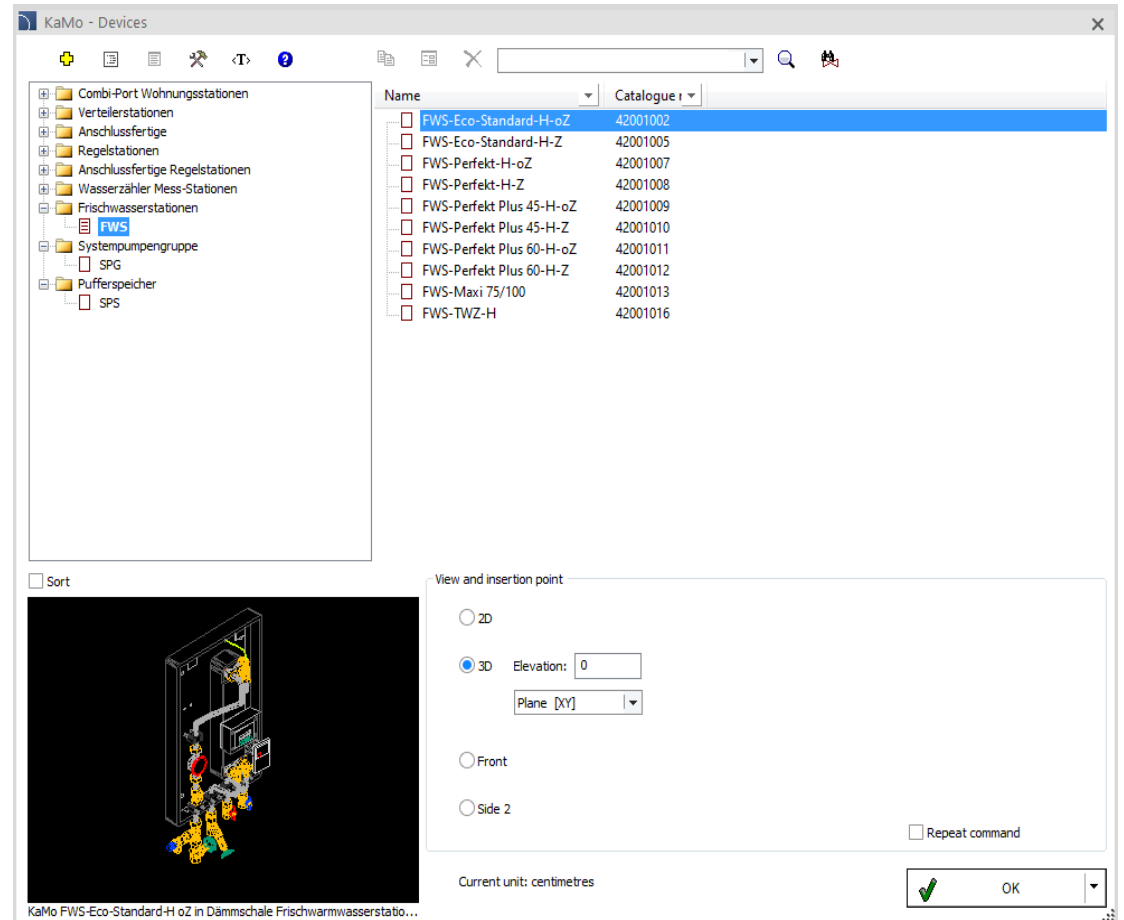
- Surge protectors for burglary alarm systems (1 and 8 channel) with accessories.
- Surge protectors for Gigabit Ethernet LAN (1, 4, 8 and 16 channel) with accessories.
- Surge protectors for LAN (1, 4, 8 and 16 channel) with accessories.
- Surge protectors for power line (1 channel).
- Surge protectors for M-BUS (1 channel).
- Surge protectors for RS-485 (1 channel).
- Active RS-485 bus distributors (1 and 4 channel repeaters).



✓ CADprofi OEM – extension of KaMo library

KaMo library has been extended with the following products:

- Fresh water stations (FWS-Eco-Standard, FWS-Perfekt, FWS-Perfect Plus, FWS-Maxi, FWS-TWZ).
- Pump groups (SPG 32 – M4, M6, M10, TM, UM).
- Buffer tanks (SPS - 500, 750, 1000, 1500, 200).





CADprofi

✓ Update of product libraries:





CADprofi

✓ Adjustment to many base CAD programs

CADprofi 2024 has been adjusted to work with latest CAD programs, including: AutoCAD 2024, Ares Commander 2024, ARES Mechanical 2024, AviCAD 2024, BricsCAD 2024, CADdirect 2024, CADian 2023, GstarCAD 2024, CMS IntelliCAD 11.1, INTELLICAD 2023, INTERsoft, progeCAD 2024 and ZWCAD2024.

CADprofi 2024 currently works with many base CAD programs including: AutoCAD (since 2004 version), ARES Commander 2024 BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD and others.

The logo for AutoCAD, featuring the word 'AutoCAD' in a bold, red, sans-serif font with a registered trademark symbol.

The logo for ZWCAD, featuring the word 'ZWCAD' in a bold, blue, sans-serif font with a green leaf-like graphic above the 'W'.

The logo for GstarCAD, featuring the word 'GstarCAD' in a bold, blue, sans-serif font with a yellow 'A', and the tagline 'An Alternative CAD System' in a smaller blue font below it.

The logo for BricsCAD, featuring a stylized blue 'B' shape above the word 'BRICSCAD' in a bold, black, sans-serif font.

The logo for progeSOFT, featuring a blue globe with a yellow 'I' shape inside, above the word 'progeSOFT' in a blue, sans-serif font.

The logo for IntelliCAD, featuring a purple diamond shape with a yellow 'I' shape inside, above the word 'IntelliCAD' in a bold, purple, sans-serif font.

The logo for Gräbert ARES Commander, featuring a red, stylized flame-like graphic above the word 'Gräbert' in a small black font, and 'ARES® Commander' in a large, bold, black, sans-serif font.