thulema

THULEMA CAD**2015**

AutoCAD 2008-2016
WINDOWS 8/7/Vista/XP

USER GUIDE

CONTENTS

1. GENERAL

THULEMA CAD is an application that works within AutoCAD and can be used to:
- select THULEMA furniture from the electronic catalogue
- apply THULEMA furniture blocks into AutoCAD drawings (e.g. interior design drawings)
- automatically compile a list of the selected furniture (specification) and price calculations.

2. INSTALLATION

The application needs ≈160 MB of hard disk space. For installation launch thulema.exe, or, if you have the installation CD place it to the CD-ROM drive and AutoRun will automatically invoke the setup program. If AutoRun feature is disabled, start setup.exe on the CD.

During the installation you have to:

1) set your AutoCAD version;
2) choose the language for the program;
3) choose the directory the program will be installed to;
4) confirm the end of installation in the last dialog box.

When running AutoCAD after the installation the toolbar and drop-down menu of THULEMA CAD application commands are automatically created (see fig. 2.1).
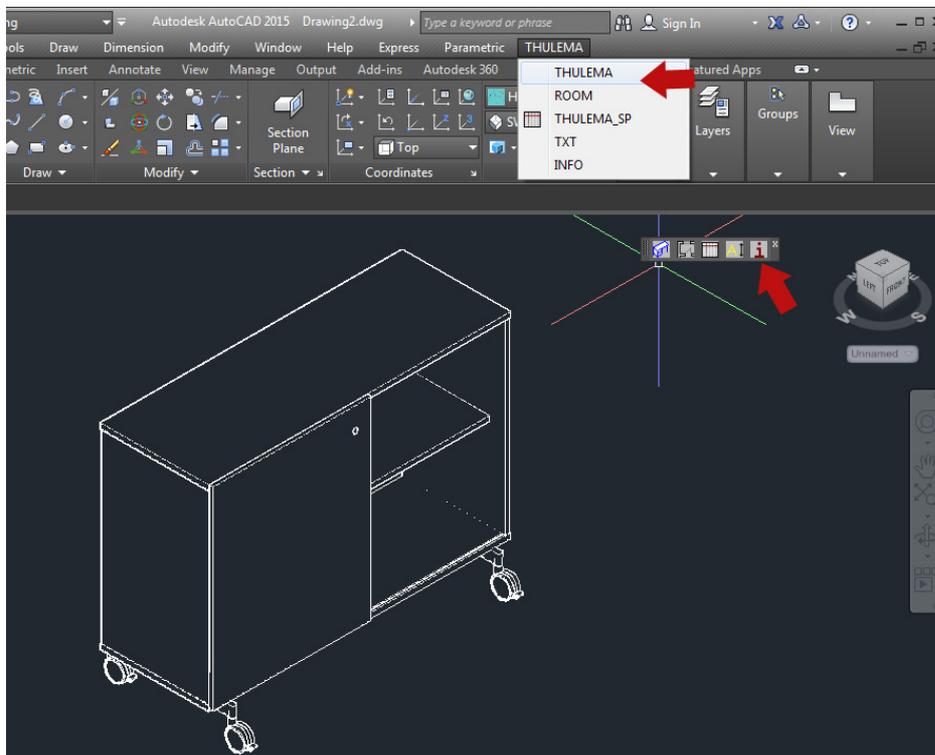

Fig. 2.1. The THULEMA CAD drop-down menu and toolbar.

Command: MENUBAR
Enter new value for MENUBAR <0>: 1

3. LOADING THE APPLICATION

The application is automatically loaded by invoking any THULEMA CAD command from button or drop-down menu. If the user has removed THULEMA CAD menus the application can be reloaded from the command line:

Command: (load "THULEMA")

Command: SECURELOAD
Enter new value for SECURELOAD <1>: 0

4. Command THULEMA

The command THULEMA is for selecting the furniture from the block library and placing it on the drawing.

Command: THULEMA

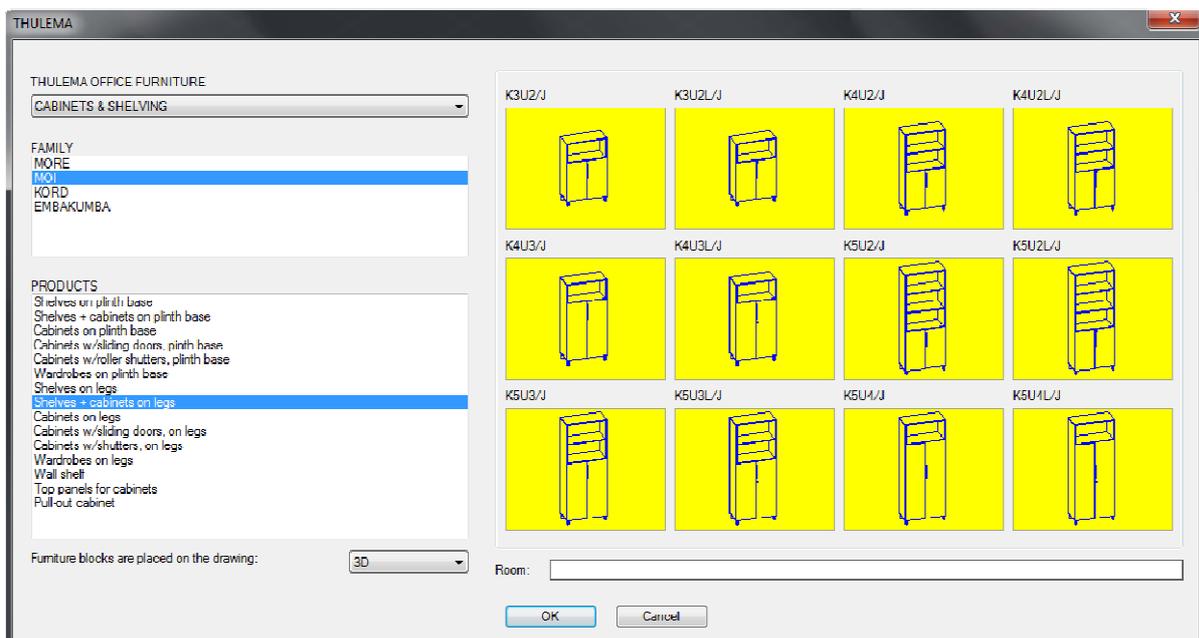The THULEMA furniture selection dialogue box opens (fig. 4.1).

Fig. 4.1. Furniture selection dialogue box.

The furniture selection principle is hierarchical. The first selection menu lists the furniture types (DESKS, CABINETS & SHELVING, UPHOLSTERED FURNITURE etc.). Use the FAMILY menu to select the product line. Next the PRODUCTS menu displays the possible subtypes of products. If a subtype is selected the picture images of the models of this product are displayed. The model is selected by clicking on its image. In the lower left of the dialog box 2D (the top view of the product will be placed on the drawing) or 3D blocks can be selected.

In the lower right part of the dialogue box the number/name of the room the item will be placed in can be inserted. If the placed furniture has a room sign (e.g. interior design drawings), the furniture will be divided by rooms in the automatically formed specification (see clause 8). Inserting the room number is optional and can also be done later with the command ROOM (see clause 5).

Click OK to exit the dialogue box.

Insertion point:	The insertion point of the furniture block is indicated by mouse or inserted by coordinates on keyboard.
Rotation angle <0>:	The orientation of the furniture block shall be indicated with mouse or inserted numerically on keyboard.

After this the furniture block is placed on the drawing.

Furniture is placed on the layer „_THULEMA_FURNITURE". Every furniture block has an attribute with the tag MODEL which is placed on the layer „_THULEMA_MODELS". If needed the layers can be turned on or off separately.

The placed THULEMA blocks can be edited with all AutoCAD commands - moved, rotated, mirrored, copied etc. The only exception is the EXPLODE command which will affect the specification list formed with the THULEMA_SP command – the exploded blocks will not be present there.

The 3D blocks of THULEMA can also be visualized photo realistically with either AutoCAD built-in render tools or by transferring the drawings to other programs e.g. 3D STUDIO MAX.

5. Command ROOM

The ROOM command enables to edit room markings.

Command: ROOM

Select objects:	To insert a room marking for a block select the block(s). All the AutoCAD selection methods can be used. The selection of objects (e.g. when selecting the objects with "crossing" or "window") can contain objects that are not furniture blocks. Those objects will be filtrated out from the selection automatically.

When the selection is completed the ROOM dialogue box presented on figure 5.1 opens.
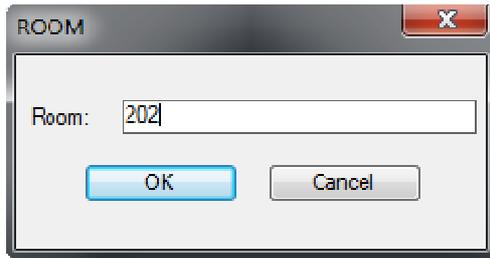
Fig. 5.1. Inserting the room marking.

This dialogue box shows the room marking(s) inserted in the command THULEMA dialogue box while the furniture was being placed in the drawing, or new markers can be added. If the furniture from different rooms is selected, all the room markings separated by commas are listed in the dialogue box. After insertion of a new room the marking of it is ascribed to all selected furniture blocks.

The correction of the room marking can be useful for example if several rooms with different markings in the interior drawing are furnished with the same furniture. Only one room can be furnished using the command THULEMA at first, then the furniture of this room can be copied into other rooms. After that the furniture models have to be corrected in correspondence to the room markings. This ensures that in the automatically compiled specification the furniture is divided by rooms.

6. Command INFO

The command INFO is for viewing information about a selected furniture item.

Command: INFO
Select THULEMA furniture: Select furniture on the drawing

The dialogue box presented in figure 6.1 opens.

Joon. 6.1. Information about a selected furniture block.

7. Command TXT

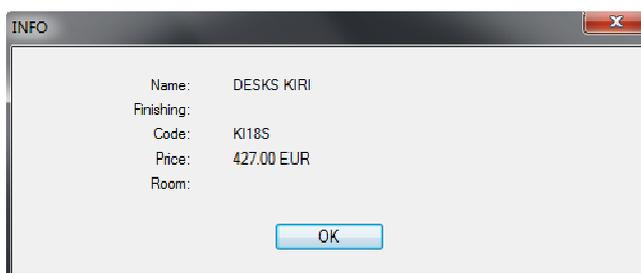Use the TXT command to edit the height of Thulema furniture blocks' attributes. The blocks have the attribute MODEL which shows the product's catalogue code.

Command: TXT
Texts height <80>:   Insert new height

The attributes are placed on the layer "_THULEMA_MODELS".

8. Command THULEMA_SP

Use the THULEMA_SP command to automatically compile a furniture specification list. The specification table is placed on the drawing. A tab-separated values text file can also be saved which can be imported to Excel or any other spreadsheet program.

Command: THULEMA_SP
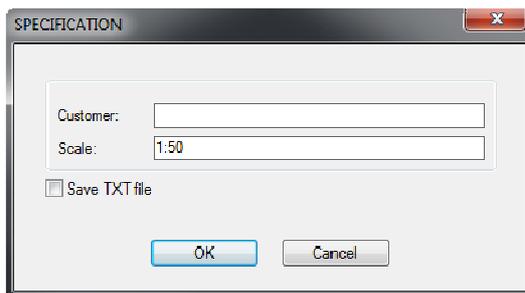
Fig. 8.1. Specification dialog box.

Customer:	Insert the customer's name. It will be added to the specification's title block.
Scale:	Defines the scale of the specification in the drawing.
Save TXT file:	Tick the box to save the specification as a tab-separated values text file. Choose the location where the file will be saved.
The location of the left lower corner:	Indicate the location of the specification in the drawing.

Next the specification is automatically formed (see example figure 8.2). The specification is in horizontal A4 format. If there is more furniture than fits on one page, the necessary number of pages is formed automatically. The pages are numbered and aligned in a horizontal row. The specification also includes the price of the furniture. The total price of the furniture is calculated at the end of the table.

NOTE. The application presents the minimum price of the furniture item, featuring the most affordable materials and finishes. The prices are ex. VAT and are applicable for the period referred in the table. For a precise offer please contact info@kitmanthulema.ee or find a contact that suits you best at www.thulema.ee

If the furniture blocks have been assigned room numbers or names, the specification list will be ordered by rooms. The rooms are in alphabetical order, so are the furniture items within the rooms. Furniture pieces without a room marking will be listed at the end of the specification.

The title of the specification, the data rows and the title block are AutoCAD blocks with attributes. Thus the specification can be corrected or data can be added manually (e.g. to the notes column) using the means of AutoCAD attributes correction.

If there already is a specification on the drawing and the command THULEMA_SP is used again (e.g. because some furniture has been added to the drawing), a new specification is compiled and the old one is automatically erased.

All texts of specification use the style THULEMA, the specification table is placed on the layer „_THULEMA_SPEC".

NAME	PRICE	AMOUNT	NOTE
401			
CABINETS & SHELVING MOI K2/S	63.00 EUR	1	63.00 EUR
CABINETS & SHELVING MOI K2U2/J	98.00 EUR	1	98.00 EUR
CHAIRS Chairs 1		2	
DESKS THOR TL-I16	202.00 EUR	1	202.00 EUR
DESKS THOR TL-L20V+A12	361.00 EUR	1	361.00 EUR
Secretary			
CABINETS & SHELVING MORE K62L	430.00 EUR	1	430.00 EUR
DESKS SÄRTS SÄ-I16	450.00 EUR	1	450.00 EUR
	TOTAL		1604.00 EUR
Customer: AS NORD COMPUTERS	Price (EUR, ex VAT) may vary depending on finishing. Prices applicable for 2015. Please contact info@firmanthulema.ee for precise offer.	thulema	Page 1/1

Fig. 8.2. Example of the automatically formed specification list.

9. TECHNICAL INFORMATION

It is not recommended for the user to change the definitions to the blocks which form the specification - it can cause unforeseen situations in the operation of the program. Such blocks are AS_THULEMA_HEADER, AS_THULEMA_ROOM, AS_THULEMA_DATA and AS_THULEMA_TITLE_INGLISE.

In the case of error reports or other problems please contact
MHX PROJEKT OÜ by phone +372 53 455 015 or e-mail hmoldre@neti.ee.

Contact person: HEINO MÖLDRE

AS KITMAN THULEMA
www.thulema.ee
Kesk-Sõjamäe 3 Tallinn
Pärnu mnt 158 Tallinn

2015