

# Linetype Library Manager 2023

# Tool to manage Linetype library for AutoCAD and Verticals

Compatible with AutoCAD 2017 to 2023





### Introduction:

The LinetypeLibraryManager is a powerful, easy to use tool to manage Linetype library for AutoCAD. It comes from years of experience in AutoCAD and it is one of the AutoCAD management tools developed by CADManagerTools.

It is compatible with 32-bit and 64-bit AutoCAD and Vertical versions from 2017 to 2023.

| <u>A</u>  | Linetype Library Manager 1.0   | _ 🗆 🗙   |
|---|--|---|
| Linetype Standard:  | Linetypes = 14 nos.  |   |
| ABC-01  | Linetype Name  | Description   |
| Discipline:   | [SANITARY]<br>SANITARY SEWER   | SANITARY SEWER SS SS  |
| 01-Architecture<br>02-Infrasturcture  | SANITARY SEWER-ABANDONED   | SANITARY SEWER LINE ABANDONED X SS X  |
| 03-Landscape<br>04-Structure<br>05-Plumbing<br>06-Mechanical<br>07-Electrical | [STORM WATER]<br>STORM WATER<br>STORM WATER-ABANDONED  | STORM WATERSWSW<br>STORM WATER LINE ABANDONED XSWX  |
| Group:<br>acad<br>acadiso   | [GAS]<br>GAS-HIGH-PRESSURE<br>GAS-LPG<br>GAS-LOW PRESSURE<br>GAS-ABANDONED   | GAS HIGH PRESSURE LINE HG HG         LIQUID PETROLEUM GAS LINE LPG         GAS LOW PRESSURE LINE G G         GAS LINE ABANDONED X G X                 |
| DRY_Utilities<br>Fences<br>Road Markings<br>WET_Utilities                     | [WATER]<br>WATER NETWORK<br>WATER-ABANDONED<br>CHILLED WATER RETURN<br>CHILLED WATER SUPPLY<br>COLD WATER<br>HOT WATER | WATER LINE W W X<br>WATER LINE ABANDONED X W X<br>CHILLED WATER RETURN CWR CWR<br>CHILLED WATER SUPPLY CWS CWS<br>COLD WATER CW CW<br>HOT WATER HW HW |
|   | < Linetype [4] nos inserted  | >   |
| Edit Linetype Settings About Help   |  | Search Insert Exit  |

## Installation:

The installer that ran when you downloaded this plug-in from Autodesk Exchange has already installed the plug-in. You may need to restart AutoCAD to activate the plug-in. The command for command line is "CMT\_LTM".

For the first time set the Linetype library location in the settings dialog box and click save to register the path and close the Linetype Library Manager and re-launch Linetype Library Manager, select the Linetype standard from available names in the drop down list and select the discipline folder name and select the linetype file available in the group collection that lists all available Linetypes in the selected file.

#### Setting up Linetype library directory structure:

With little effort user can setup the directory structure which suites his/her companywide requirements, the sample is given below to arrange the linetype library in folders.

The main linetype library manager folder structure should be organized as below image

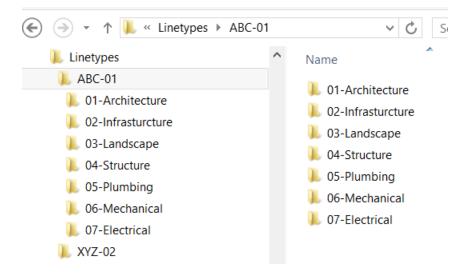
Arrange your linetype library based on client specific Layer standards, in most cases the linetype names/ styles for various features differ from client to client.







Name the Main linetype library folder of your choice; for example, "LINETYPES" or "LINETYPE LIBRARY" etc...



- 1. Create Client specific linetype folders under main folder.
- 2. Create Discipline wise folders under the client specific linetype standards folder.
- 3. Arrange linetype files within each discipline folder.







#### **User Interface Controls:**

| A   | Linetype Library Manager 1.0  | _ 🗆 🗙  |
|---|---|--|
| Linetype Standard:<br>ABC-01<br>Discipline:<br>07-Architecture<br>07-Indiscape<br>06-Nechanical<br>07-Electrical<br>07-Electrical<br>Croup:<br>acadia<br>acadias<br>DRY_Utilities<br>Fences<br>Road Markings<br>W/ET_Utilities<br>3 | Linetypes = 14 nos.   | Description         SANITARY SEWERSSSS         SANITARY SEWER LINE ABANDONED XSSX         STORM WATERSWSW         STORM WATER LINE ABANDONED XSWX         GAS HIGH PRESSURE LINEHGHG         LIQUID PETROLEUM GAS LINEHGHG         GAS LOW PRESSURE LINEG GG         GAS LINE ABANDONED XGX         WATER LINE ABANDONED XGX         WATER LINE ABANDONED XGX         WATER LINE ABANDONED XGX         CHILED WATER RETURNCWRCWR         COLD WATERCW         HOT WATER HW |
| 6 7 8 9<br>Linetype Standard : Lists linetype   | < Linetype [4] nos.inserted 5 netype standard list  | Search Insert Ext  |
| 1. Discipline list : Lists d  | iscipline list  |  |
|   | netype group file   | - 61-  |
|   | netype information from the selected linetype   | eme  |
|   | s the status of linetype insert operation<br>the selected linetype file for editing in "Notep | and" application   |
|   | settings dialog   |  |
| - · ·   | About dialog  |  |
|   | help file   |  |
|   |   |  |
|   | search dialog<br>selected linetypes; Single linetype can be inse                              | erted by double click on the linetype  |
| 11. Exit : Exit th  | e application   |  |







#### Creating linetype file:

| WET_Utilities.lin - Notepad -   | _ 🗆 🗙 |
|---|-------|
| File Edit Format View Help  |       |
| [SANITARY]<br>*SANITARY SEWER, SANITARY SEWER SS SS<br>A,4,-0.25,["SS",STANDARD,S=0.5,R=0.0,U=0,X=05,Y=-0.25],-1<br>*SANITARY SEWER-ABANDONED, SANITARY SEWER LINE ABANDONED X SS X<br>A,4,["X",STANDARD,S=0.5,R=0,X=05,Y=25],25,4,25,<br>["SS",STANDARD,S=.5,R=0,U=0,X=05,Y=25],-1 | ^     |
| [STORM WATER]<br>*STORM WATER, STORM WATER SW SW<br>A,4,-0.25,["SW",STANDARD,S=0.5,R=0.0,U=0,X=05,Y=-0.25],-1<br>*STORM WATER-ABANDONED, STORM WATER LINE ABANDONED X SW X<br>A,4,["X",STANDARD,S=0.5,R=0,X=05,Y=25],25,4,25,<br>["SW",STANDARD,S=.5,R=0,U=0,X=05,Y=25],-1          |       |
| [GAS]<br>;;GAS NETWORK<br>*GAS-HIGH-PRESSURE, GAS HIGH PRESSURE LINEHG HG   | ~     |

There is no special formatting is required; User can simply follow the AutoCAD default linetype file formatting

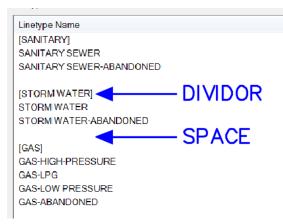
Divider for linetype can be added within open and closing square braces

Example: [STORM WATER]

In addition to the square braces ([]) blank lines, Hyphen (-), and Underscore (\_) are allowed to subdivide the linetype list, refer to linetype files installed in the installation folder.

semicolon (; ;) is treated as comment and will not be loaded to Linetype list

Example: ;; The below linetypes are newly added for project ####-####









#### Settings:

| Lat                                    | Settings - Linetype Library Manager         | × |
|--|---|---|
| Linetype Library Path:<br>P:\Linetypes |   |   |
| ✓ Overwrite Linetype                   | Start application with last accessed Group  |   |
| ✓ Add path to AutoCAD Support Pa       | ths Close application on Linetype insertion |   |
|  |   |   |
|  | Save Close                                  | • |

#### Linetype Library Path:

Set up the linetype library directory structure and set the linetype library manager start up location, this process is the one time set up.

#### **Overwrite Linetype:**

Enable this option to overwrite the existing linetype in the current drawing with selected linetype.

#### Start application with last accessed group:

Enable this option to start the application with last used linetype group, if unchecked the application will start with first item selected from the Linetype standard, Discipline and group folders.

#### Close application on linetype insertion:

Enable this option to close the linetype library manager application on the completion of the linetype insertion.

#### Add path to AutoCAD support paths:

There are linetypes with special characters referenced to shape from the shx files, those shx file path should be available to AutoCAD during that linetype insertion to import that shapes and enabling this option will add the selected group linetype path to AutoCAD support paths.

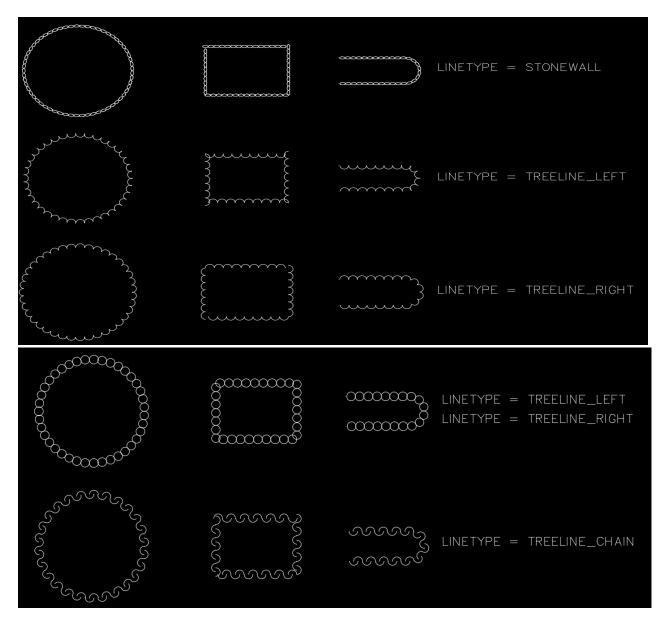
If the option is not enabled then make sure that the path for the special shape files (shx) is added to AutoCAD support path to avoid error during linetype insertion.







#### Linetype with special shape:









#### Search Linetype:

Search and loads the *matching result* into the linetype list, the search is validated in linetype name and description.

| Last |               | Search Linetype            | x |
|------|---------------|----------------------------|---|
| -    | Search Value: | ST                         |   |
|      |               | O Search in current list   |   |
|      |               | ◯ Search in all groups     |   |
|      |               | • Search in all Discipline |   |
|      |               |                            |   |
|      |               | Search                     |   |

#### Search in current list:

This option searches and loads the matching linetype from the current listed linetypes only.

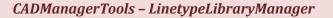
#### Search in all groups:

This option searches and loads the matching linetypes from all the linetype files listed in the group folder.

#### Search in all Discipline:

This option searches and loads the matching linetypes from all the linetype files available in the discipline folders.







Linetype Library Manager 1.0

|  |                            | Enletype E                 | ibrary manager 1.0              |  |
|--|----------------------------|----------------------------|---------------------------------|--|
| Linetype Standard:                         | Linetype                   | es 4 nos                   |                                 |  |
| ABC-01                                     | <ul> <li>Linety</li> </ul> | pe Name                    | Description                     | File Name                              |
| Discipline:                                | GUAF                       | ID_L                       | Guardrail posts on left()()     | ABC-01 \02-Infrasturcture\Fences.lin   |
| 01-Architectur                             | GUAF                       |                            | Guardrail posts on right0       | ABC-01 \02-Infrasturcture\Fences.lin   |
| 01-Architectur                             |                            | MWATER                     | STORM WATER SW SW               | ABC-01 \02-Infrasturcture\WET_Utilitie |
| 03-Landscap<br>04-Structure<br>05-Plumbing | STOR                       | M WATER-ABANDONED          | STORM WATER LINE ABANDONED X SW | ABC-01 \02-Infrasturcture\WET_Utilitie |
| 06-Mechanica<br>07-Electrical              |                            |                            |                                 |  |
| С  |                            |                            |                                 |  |
| Group:                                     |                            |                            |                                 |  |
| acad<br>acadiso                            |                            |                            |                                 |  |
| DRY_Utilities                              |                            |                            |                                 |  |
| Fences<br>Road Marking                     |                            |                            |                                 |  |
| WET_Utilities                              |                            |                            |                                 |  |
| 0  |                            |                            |                                 |  |
| D  |                            |                            |                                 |  |
| F  |                            |                            |                                 |  |
| L  | <                          |                            |                                 | >                                      |
|  |                            |                            |                                 |  |
| 8  | <b>i</b>                   | Linetype [4] nos. inserted |                                 |  |
| Edit Linetype Settings                     | About Help                 |                            |                                 | Go Back Insert Exit                    |
|  |                            |                            |                                 |  |

The search result is populated including its file name for easy identification on the file name for editing and the search button is renamed to "Go Back" and the Linetype standard, Discipline list and group list is disabled. Click on the "Go Back" button to return to Main dialog.

#### Sorting:

Click on the linetype list header to short in Ascending/Descending order

A>> -Indicates shorting in Ascending order

Z>> -Indicates shorting in Descending order

The sorting can be toggled either ascending or descending and to revert it back to default linetype listing, the application should be closed and restarted.

| Linetypes = 14 nos.      |                                 |
|--------------------------|---------------------------------|
| A>> Linetype Name        | Description                     |
| CHILLED WATER RETURN     | CHILLED WATER RETURN CWR CV     |
| CHILLED WATER SUPPLY     | CHILLED WATER SUPPLY CWS CW     |
| COLD WATER               | COLD WATER CW GW                |
| GAS-ABANDONED            | GAS LINE ABANDONED X G          |
| GAS-HIGH-PRESSURE        | GAS HIGH PRESSURE LINE HG HG    |
| GAS-LOW PRESSURE         | GAS LOW PRESSURE LINE G G       |
| GAS-LPG                  | LIQUID PETROLEUM GAS LINE LPG   |
| HOT WATER                | HOT WATER HW HW                 |
| SANITARY SEWER           | SANITARY SEWER SS SS            |
| SANITARY SEWER-ABANDONED | SANITARY SEWER LINE ABANDONED X |
| STORM WATER              | STORM WATER SW SW               |







#### **Right Click Menu:**

Right click menu on linetype list view enables easy access to some of its features

- Insert Linetype: Inserts selected linetypes
- Search Llinetype: Opens linetype search dialog

Edit Linetype File:Opens the selected linetype file for editing and reselecting the same file from the group list reloads the updated file.

Edit Settings: Opens setting dialog for editing

Select All Ctrl+A: Selects all linetypes for insertion and use Control + A key combination for quick selection

| Linetype Name                             |      |                               | Description   |
|---|------|-------------------------------|---|
| KWT-RM-600                                |      |                               | Lane Marking Under 45 km/h(   |
| KWT-RM-601                                |      |                               | Lane Marking Over 45 km/h(  |
| KWT-RM-601wr<br>KWT-RM-601s<br>KWT-RM-602 |      | ert Linetype<br>Irch Linetype | Lane Marking Over 45 km/h PRN ( []<br>Lane Marking Over 45 km/h SRN (o o o<br>U-Turn Facility Under 45 km/h ( |
| KWT-RM-603<br>KWT-RM-604<br>KWT-RM-605    |      | t Linetype File<br>t Settings | U-Turn Facility Over 45 km/h (<br>ECW Under 45 km/h (<br>ECW Over 45 km/h (                                   |
| KWT-RM-608<br>KWT-RM-610<br>KWT-RM-612    | Sele | ect All Ctrl+A                | Prohibitary Visibility (  |

