



E-BOOK



AUTOCAD SHORTCUT KEYS

AUTOCAD
SHORTCUT KEYS
(ALL VERSIONS)

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Preface

In the fast-paced world of mechanical design and drafting, efficiency is everything. Whether you're a student just starting your journey with AutoCAD or a seasoned professional looking to sharpen your workflow, mastering shortcut keys can significantly improve your productivity and precision.

This eBook, brought to you by **3DCAD Click**, is designed to be a compact, practical reference guide to the most essential and time-saving shortcut keys in AutoCAD. We've organized the content for quick access, so you can spend less time searching and more time creating.

At **3DCAD Click**, our mission is to equip mechanical engineers with tools and resources that accelerate learning and enhance design skills. This book reflects that mission—a small yet powerful addition to your CAD toolkit.

If you want to learn more or take your skills to the next level, connect with us at www.3dcadclick.com - an ISO certified training institute dedicated to professional excellence in mechanical engineering education.

— *Team 3DCAD Click*

Overview

This eBook is a quick-reference guide to the most commonly used shortcut keys in AutoCAD, tailored specifically for mechanical engineers, drafting professionals, and students aiming to improve their design efficiency.

The content is organized into easy-to-navigate sections based on tool categories such as drawing, editing, viewing, annotation, layer management, and more. Each shortcut key is presented with a brief description of its function, making it simple to understand and apply in real-world projects.

Whether you're learning AutoCAD for the first time or looking to speed up your workflow, this eBook provides a focused resource to help you save time and increase productivity.

By the end of this guide, readers will:

- Gain familiarity with essential keyboard shortcuts
- Understand how to integrate shortcuts into their daily drafting routine
- Work more efficiently within the AutoCAD environment

For deeper learning, hands-on training, or full courses in CAD and design, visit www.3dcadclick.com - an ISO certified training institute committed to empowering mechanical engineers through quality education.

AutoCAD Shortcut Keys

(All Versions)

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Drawing Commands

Command Name	Shortcut	Description
Line	L	Draws a straight-line segment.
Polyline	PL	Draws a connected sequence of line or arc segments.
Circle	C	Draws a circle using center and radius.
Rectangle	REC	Draws a rectangle using two corner points.
Polygon	POL	Draws an equilateral closed polygon.
Arc	A	Draws an arc.
Ellipse	EL	Draws an ellipse or an elliptical arc.
Spline (Fit)	SPL	Draws a smooth curve through specified points.
Hatch	H	Fills an enclosed area with a hatch pattern.
Hatch Edit	HE	Modifies existing hatch patterns.
Gradient	GRA	Fills an area with a gradient color fill.
Boundary	BO	Creates a polyline or region from an enclosed area.
Ray	RAY	Creates a semi-infinite line.
Construction Line	XL	Draws an infinite line (xline).
Multiline	ML	Creates multiple parallel lines.
Donut	DO	Draws a solid-filled circle or ring.
Point	PO	Places a point object in the drawing.
Region	REG	Converts closed loops into region objects.
Solid	SOL	Draws a solid 2D shape with four sides.
Trace (Legacy)	TRACE	Draws filled 2D lines (legacy command).
Helix	HEL	Creates a 3D spiral or helix.
Table	TAB	Inserts a table object in the drawing.
Multileader	MLE	Adds leader lines with annotations.
Revision Cloud	REVLOUD	Draws cloud shapes to indicate revisions.
Wipeout	WIPEOUT	Masks background with a solid shape.

Modify Commands

Command Name	Shortcut	Description
Move	M	Moves objects a specified distance in a specified direction.
Copy	CO / CP	Creates duplicates of selected objects.
Rotate	RO	Rotates objects around a base point.
Mirror	MI	Creates a mirrored copy of selected objects.
Offset	O	Creates a parallel copy of objects at a specified distance.
Scale	SC	Enlarges or reduces selected objects.
Trim	TR	Trims objects to meet the edges of other objects.
Extend	EX	Extends objects to meet the edges of other objects.
Fillet	F	Rounds the edges where two lines meet.
Chamfer	CHA	Bevels the edges where two lines meet.
Stretch	S	Stretches objects crossed by a selection window or polygon.
Lengthen	LEN	Changes the length of objects and included angle of arcs.
Break	BR	Breaks an object between two points.
Join	J	Joins similar objects into a single object.
Explode	X	Breaks a compound object into its components.
Array	AR	Creates multiple copies of objects in a pattern.
Erase	E	Deletes selected objects.
Match Properties	MA	Copies properties from one object to another.
Align	AL	Aligns objects with other objects in 2D or 3D space.
Divide	DIV	Places point objects spaced evenly along the length of an object.

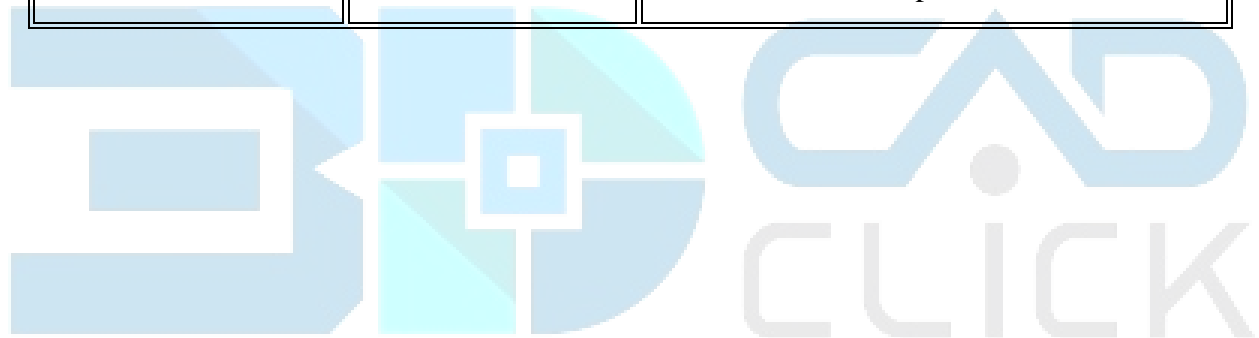
Command Name	Shortcut	Description
Measure	ME	Inserts point objects at measured intervals along an object.
Explode Text (Express)	TXTEXP	Explodes text into polylines (from Express Tools).
Overkill	OVERKILL	Deletes duplicate or overlapping objects.
Flatten	FLATTEN	Converts 3D objects to 2D by flattening Z-coordinates.
Change Space	CHSPACE	Moves objects between model space and paper space.
Offset Edge	OFFSETEGE	Offsets the edge of a surface or solid.
Reverse	REVERSE	Reverses the direction of polylines or splines.
Edit Polyline	PEDIT	Edits polylines and converts lines/arcs to polylines.
Quick Select	QSELECT	Creates a selection set based on object properties.
Clean Screen Toggle	CTRL+0	Clears interface clutter to show only the drawing area.

Annotation & Dimension Commands

Command Name	Shortcut	Description
Text (Single Line)	DT	Creates single-line text.
Multiline Text	MT or T	Creates multiline text paragraphs.
Text Style	STYLE	Manages text styles for annotations.
Justify Text	JUSTIFYTEXT	Changes text justification without changing its location.
DDEDIT (Text Edit)	ED or DDEDIT	Edits existing text objects.
Find and Replace	FIND	Searches for text and optionally replaces it.
Match Text Formatting	MATCHPROP	Copies text properties (among others) from one to another.
Leader	LEA	Creates a line with an annotation (basic leader).
Multileader	MLEADER / MLD	Creates a more advanced annotation leader with options.
Multileader Style Manager	MLEADERSTYLE	Manages styles for multileaders.
Dimension Linear	DIMLIN	Creates horizontal or vertical dimensions.
Dimension Aligned	DIMALI	Measures the true length of an object at an angle.
Dimension Angular	DIMANG	Measures angles between two lines or points.
Dimension Diameter	DIMDIA	Measures the diameter of a circle or arc.
Dimension Radius	DIMRAD	Measures the radius of a circle or arc.
Dimension Baseline	DIMBASE	Creates a chain of dimensions from a common baseline.
Dimension Continue	DIMCONT	Continues a dimension from the end of the previous one.

Command Name	Shortcut	Description
Dimension Ordinate	DIMORD	Creates ordinate dimensions for coordinates.
Dimension Arc Length	DIMARC	Measures arc length along the curve.
Dimension Jogged Radius	DIMJOGGED	Creates a radius dimension for large arcs.
Dimension Style Manager	D	Manages dimension styles and formatting.
Update Dimensions	DIMUPDATE	Updates dimensions to match a new style.
Adjust Dimension Space	DIMSPACE	Adjusts spacing between dimension lines.
Center Mark	CENTERMARK	Adds a center mark to circles and arcs.
Centerline	CENTERLINE	Creates centerlines between two lines.
Quick Dimension	QDIM	Automatically places multiple dimensions at once.
Tolerance	TOLERANCE	Adds tolerance information to dimensions.
Inspection Dimension	DIMINSPECT	Adds inspection symbols to dimension text.
Break Dimension Line	DIMBREAK	Breaks dimension or extension lines at specified points.
Jog Line	DIMJOGLINE	Adds a jog line to dimension lines.
Associate Dimension	DIMREASSOCIATE	Reassociates a dimension with geometry.
Restore Dimension Assoc.	DIMASSOC	Sets dimension associativity (0, 1, 2).
Dimension Text Override	TEXTOVERRIDE	Manually changes dimension text.
Spell Check	SPELL	Checks the spelling of text objects.
Field	FIELD	Inserts dynamic text that updates (like date, filename).
Annotative Property	ANNOUPDATE	Updates annotative objects to support current scale.

Command Name	Shortcut	Description
Annotation Scale	ANNOAUTOSCALE	Automatically adds scales to annotative objects.
Annotation Monitor	ANNOMON	Monitors associativity of annotations.
Text to MText	TXT2MTXT	Converts single-line text to multiline text.
MText to Text (Explode)	TXTEXP	Explodes MText into polylines (Express Tools).
DIMCENTER	DIMCENTER	Adds center marks to circles and arcs.
DIMEDIT	DIMEDIT	Edits dimension text and alignment.
DIMROTATED	DIMROTATED	Creates a rotated dimension aligned with an angle.
DIMTEDIT	DIMTEDIT	Edits dimension text position.

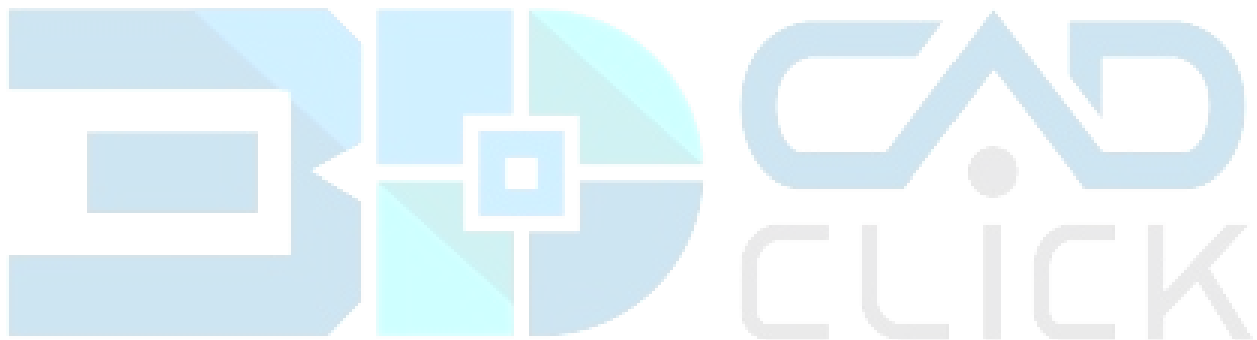


Viewing & Navigation Commands

Command Name	Shortcut	Description
Zoom	Z	Increases or decreases the magnification of the view.
Pan	P	Moves the view without changing magnification.
3D Orbit	3DO	Rotates the view in 3D interactively.
View Manager	VIEW	Saves, restores, and manages named views.
UCS	UCS	Manages User Coordinate System for custom orientation.
UCS Icon Toggle	UCSICON	Turns UCS icon visibility on/off or moves its position.
PLAN	PLAN	Restores the top view of the current UCS.
VPOINT	VPOINT	Sets the 3D viewing direction (manually input X, Y, Z).
DVIEW	DVIEW	Controls camera-like perspective views (includes twist).
Walk	WALK	Simulates walking through a 3D model.
Fly	FLY	Simulates flying through a 3D model.
Steering Wheels	WHEEL	Brings up navigation wheel for combined pan, orbit, zoom.
Navigation Bar Toggle	NAVBAR	Controls visibility of the navigation bar on the screen.
View Cube Toggle	NAVVCUBE	Shows or hides the View Cube for 3D orientation.
Zoom Window	Z + W	Zooms to a specific area by drawing a window.
Zoom Extents	Z + E	Zooms to fit all objects in the drawing.

Command Name	Shortcut	Description
Zoom All	Z + A	Zooms to display entire drawing limits or extents.
Zoom Previous	Z + P	Restores previous view.
Zoom Realtime	Z + R	Enables dynamic zoom using the mouse.
Zoom Center	Z + C	Zooms to a center point and scale factor.
Zoom Object	Z + O	Zooms to the selected object(s).
Viewport Control	VPORTS	Creates and manages multiple viewports.
Orbit (Freeform)	ORBIT	Interactively rotates view around 3D objects.
SW Isometric View	SWISO	Switches to South-West isometric view.
SE Isometric View	SEISO	Switches to South-East isometric view.
NE Isometric View	NEISO	Switches to North-East isometric view.
NW Isometric View	NWISO	Switches to North-West isometric view.
Regen	REGEN	Regenerates the drawing to restore display.
Realtime Pan	PAN (Enter)	Press and drag to move around the drawing.
REGENALL	REGENALL	Regenerates all viewports (useful in layouts/paper space).
NAVSWHEEL	NAVSWHEEL	Displays the Steering Wheel (specific to 3D views).
NAVSMWHEEL	NAVSMWHEEL	Shows the Steering Wheel with shortcuts to model space views.
FPSHOT	FPSHOT	Saves a snapshot of the current model space view.
CAMERA	CAMERA	Creates a camera object for perspective views.
SHOWCAMERA	SHOWCAMERA	Displays previously placed cameras in the drawing.
VSCURRENT	VSCURRENT	Changes the current visual style (Wireframe, Shaded, etc.).

Command Name	Shortcut	Description
VSAVE	VSSAVE	Saves a custom visual style.
HIDE	HIDE	Temporarily hides 3D objects (Legacy).
SHADEMODE	SHADEMODE	Controls the shading mode of a viewport.
OBJECTISOLATION MODE	OBJECTISOLATION MODE	Controls behavior of object hide/isolate.
ISOLATEOBJECTS	ISOLATE	Isolates selected objects, hides the rest.
UNISOLATEOBJEC TS	UNISOLATEOBJEC TS	Brings back previously hidden objects.
HIDEOBJECTS	HIDEOBJECTS	Hides selected objects from view.
UNHIDEOBJECTS	UNHIDEOBJECTS	Unhides previously hidden objects.



Block & Attribute Commands

Command Name	Shortcut	Description
Make Block	B	Creates a block definition from selected objects.
Insert Block	I	Inserts a block or drawing into the current drawing.
Write Block (Export)	W	Saves a block or entire drawing as a separate DWG file.
Edit Block In-Place	REFEDIT	Edits a block reference in-place.
Close Block Editor	BCLOSE	Closes block editor and saves changes.
Define Attributes	ATTDEF	Creates an attribute definition for a block.
Edit Attributes	EATTEDIT	Edits attributes of a block (Enhanced version).
Attribute Editor (Dialog)	ATTEDIT	Opens dialog to modify block attribute values.
Block Editor	BEDIT	Opens block editor environment.
Insert Block Dialog	INSERT	Opens the insert dialog for blocks (full-featured).
Redefine Block	BLOCKREPLACE	Replaces an existing block with another definition.
Synchronize Attributes	ATTSYNC	Updates all block instances with current attribute definition.
Explode	X	Breaks a block into its component objects.

Command Name	Shortcut	Description
Block Replace	BLOCKREPLACE	Replaces selected blocks with another.
Block Mirror	MIRRORBLOCK	Mirrors a block while retaining attributes and references.
Rename Block	RENAME	Renames blocks and other named objects.
Purge	PURGE	Removes unused blocks and other definitions from the drawing.
Block Unit Conversion	INSUNITS	Sets insertion units for blocks.
Block Count	BCOUNT	Counts instances of selected block in the drawing.
Block Table	BTABLE	Displays a table listing all blocks (via Lisp or custom tools).
Block Libraries	AUTODESK CONTENT	Opens Autodesk content library with standard blocks.

Layers & Properties Commands

Command Name	Shortcut	Description
Layer Properties Manager	LA	Opens the Layer Properties Manager to manage layers.
Layer ON	LAYON	Turns on all layers that are off.
Layer OFF	LAYOFF	Turns off selected layers.
Layer Freeze	LAYFRZ	Freezes selected layers, making them invisible and preventing regeneration.
Layer Thaw	LAYTHW	Thaws previously frozen layers.
Layer Lock	LAYLOCK	Locks a layer, preventing editing but still visible.
Layer Unlock	LAYUNLOCK	Unlocks a locked layer for editing.
Layer Isolate	LAYISO	Isolates the selected layer(s), hiding all other layers.
Layer Un-isolate	LAYUNISO	Restores previously isolated layers.
New Layer	LAYERS	Creates a new layer in the Layer Properties Manager.
Set Layer Color	LAYMC	Changes the color of the selected layer.
Set Layer Line type	LAYMT	Changes the linetype of the selected layer.
Set Layer Line weight	LAYLW	Changes the lineweight of the selected layer.
Set Layer Plot Style	LAYPS	Sets the plot style for the selected layer.
Layer Filter	LAYFILTER	Filters layers based on their properties.

Command Name	Shortcut	Description
Quick Properties	CTRL + 1	Displays the Quick Properties palette for selected objects.
Properties Palette	CTRL + 3	Opens the Properties palette for the current selection.
Object Properties	PROPERTIES	Displays detailed properties of the selected object(s).
Change Object Color	CHPROP	Changes the color or other properties of an object.
Object Layer	CHPROP	Changes the layer of selected objects.
Match Properties	MA	Copies properties (color, layer, linetype, etc.) from one object to another.
Print Preview	CTRL + P	Previews the layout and plot of the drawing before printing.
Line weight	LWT	Displays or changes the lineweight display for the current drawing.
Visretain	VISRETAIN	Retains layer settings from external references.
Set Layer Transparency	LAYTRANSPARENCY	Controls layer transparency for visual effect in the drawing.
Set Layer Plotting	LAYPLOT	Controls whether a layer is plotted or not.

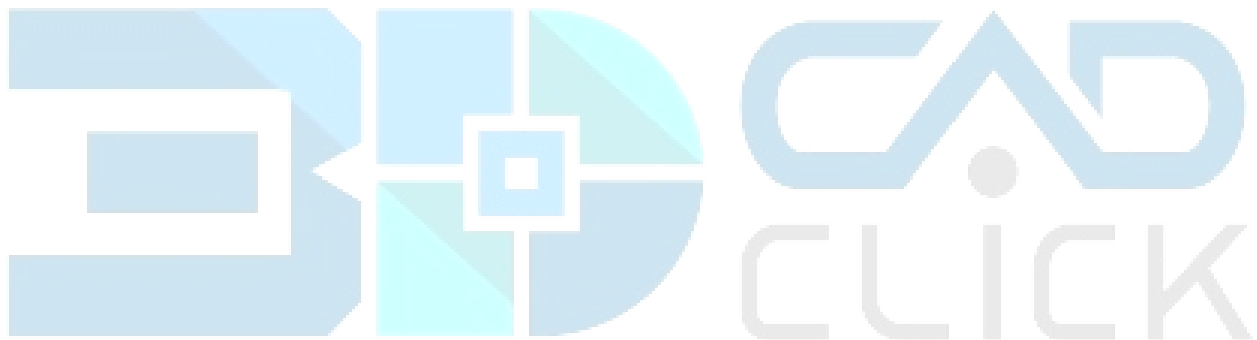
Isometric Drafting Commands

Command Name	Shortcut	Description
Iso-plane	F5	Switches between the three iso-plane orientations (Top, Left, and Right) to assist with isometric drafting.
Isometric View	ISOMETRICV IEW	Sets the view to an isometric view, allowing you to create isometric drawings.
Iso-Circle	ISOCR	Creates a circle in an isometric view by converting it into an iso-plane arc.
Iso-plane Left	F5 (Left)	Sets the iso-plane to the left orientation for isometric drafting.
Iso-plane Right	F5 (Right)	Sets the iso-plane to the right orientation for isometric drafting.
Iso-plane Top	F5 (Top)	Sets the iso-plane to the top orientation for isometric drafting.
Ellipse (Iso)	ELLIPSE	Draws an ellipse in an isometric view with specific parameters for axes.
Isometric Grid	GRID	Turns on or off the isometric grid for easier drafting of isometric drawings.
Draw Iso-plane Line	ISOLINE	Draws lines in isometric projection, ensuring they are aligned with iso-plane.
Isometric Angle	ISOANGLE	Sets the isometric angle for specific drawing and precision control during isometric drafting.

Function Keys

Command Name	Shortcut	Description
F1	F1	Opens the Help dialog box, providing access to AutoCAD's user manual and support documentation.
F2	F2	Toggles the display of the text window, showing command history and system messages.
F3	F3	Toggles Object Snap (OSNAP) on or off. OSNAP helps in precise drafting by snapping to specific points on objects.
F4	F4	Toggles 3D Object Snap (3DOSNAP) on or off. This works similarly to OSNAP but is used in 3D environments.
F5	F5	Toggles Iso-plane on or off, which helps with isometric drafting.
F6	F6	Toggles Dynamic UCS (User Coordinate System) on or off, which adjusts the UCS automatically based on the object you're working with.
F7	F7	Toggles Grid display on or off. The grid helps with precision when drafting in 2D and 3D.
F8	F8	Toggles Ortho mode on or off, restricting cursor movement to horizontal or vertical directions only.
F9	F9	Toggles Snap mode on or off, which makes the cursor snap to specific increments for precise placement.
F10	F10	Toggles Polar Tracking on or off, which helps in drafting at specific angles.

Command Name	Shortcut	Description
F11	F11	Toggles Object Snap Tracking (OST) on or off, allowing you to track from one object to another for precise placement.
F12	F12	Toggles Dynamic Input on or off, which provides on-screen prompts and input fields for commands.



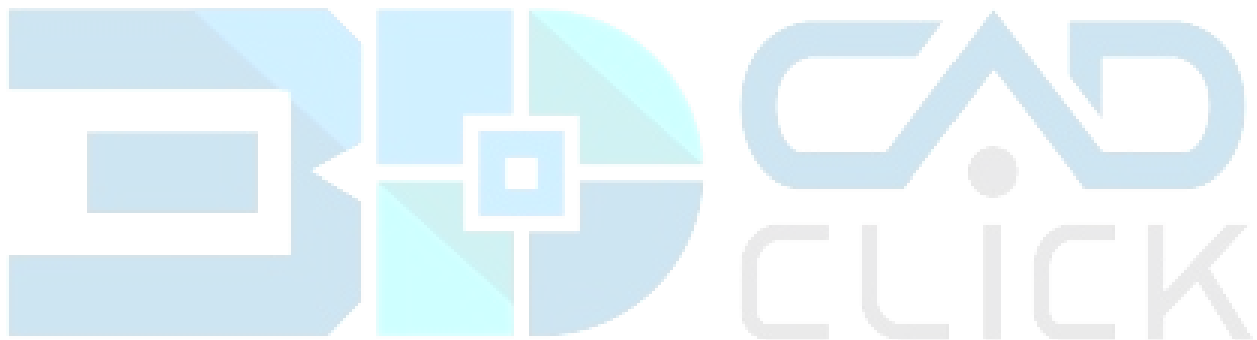
3D Designing Commands

Command Name	Shortcut	Description
BOX	BOX	Creates a 3D solid box.
SPHERE	SPHERE	Creates a 3D solid sphere.
CYLINDER	CYLINDER	Creates a 3D solid cylinder.
CONE	CONE	Creates a 3D solid cone.
TORUS	TORUS	Creates a 3D torus (donut shape).
WEDGE	WEDGE	Creates a 3D wedge-shaped solid.
EXTRUDE	EXT	Converts 2D shapes into 3D solids.
REVOLVE	REV	Revolves a 2D profile around an axis to create a 3D object.
SWEEP	SWEEP	Sweeps a profile along a path to create a solid.
LOFT	LOFT	Creates a 3D object between cross sections.
PRESSPULL	PRESSPULL	Adds or removes volume interactively from closed areas.

3D Modifying Commands

Command Name	Shortcut	Description
UNION	UNION	Combines 3D solids into one object.
SUBTRACT	SUBTRACT	Removes the volume of one solid from another.
INTERSECT	INTERSECT	Creates solid from the common volume of solids.

Command Name	Shortcut	Description
SLICE	SLICE	Cuts a 3D solid using a slicing plane.
SECTION	SECTION	Creates 2D cross-section from a 3D object.
HIDE	HIDE	Hides lines obscured by other geometry.
SHADE	SHADE	Displays shaded view of the model.
VPOINT	VPOINT	Sets the viewing angle using XYZ coordinates.
3DORBIT	3DO	Rotates the view interactively around 3D objects.



Pro-Tips

1. Customize Your Workspace for Efficiency

- **Customize the Ribbon:** Tailor the Ribbon to show only the tools you use most frequently. Right-click the Ribbon, select **Customize the Ribbon**, and add or remove panels and commands.
- **Use Tool Palettes:** Tool Palettes contain predefined and customizable tools like blocks, hatch patterns, and commands. You can create custom palettes for specific tasks, such as a **Civil** or **Mechanical** palette.
- **Quick Access Toolbar:** Keep essential commands like **Save**, **Undo**, **Redo**, and **Zoom Extents** on your Quick Access Toolbar for easy access without navigating through the Ribbon.

2. Master Keyboard Shortcuts

- **Create Your Own Shortcuts:** While AutoCAD comes with many pre-set shortcuts, you can create custom keyboard shortcuts for commands you use frequently. Go to **Tools > Customize > Edit Aliases** to modify the **acad.pgp** file. For example, you could map the **Line** command to **L** and **Circle** to **C**.
- **Function Key Shortcuts:** Function keys like **F1** (help), **F3** (toggle Object Snap), and **F8** (toggle Ortho mode) are useful, but you can customize them to suit your needs by going to **Options > User Preferences**.

3. Use Templates for Faster Setup

- **Create Drawing Templates:** Templates help maintain consistency across projects. Save a drawing with all standard settings (e.g., layers, text styles, dimension settings) as a template file (.dwt). Start every new project from the same template to avoid reconfiguring settings every time.
- **Template Naming:** Use meaningful template names (e.g., “Mechanical.dwt,” “Civil.dwt”) to distinguish between different templates for various types of drawings.

4. Maximize Layer Management

- **Layer States:** Save specific layer configurations using **Layer States**. For example, you could have one-layer state for detailed drawings and another for simplified presentations. Use **Layer States Manager** to quickly toggle between saved states.
- **Quick Layer Switching:** Use **LAYER P (for Layer Properties Manager)** and **LAYER ISOLATE** commands to isolate and focus on specific layers when working with complex drawings.
- **Freeze Unnecessary Layers:** Freeze layers that you're not working on, especially when working on large projects with many layers. This makes the drawing less cluttered and improves performance.

5. Use Object Snaps and Tracking for Precision

- **Snap to Object: Object Snaps (OSNAP)** help you select precise points on objects (like the end or midpoint of a line). Customize your **OSNAP** settings to automatically snap to different points like **endpoint, midpoint, center**, etc.
- **Polar Tracking and Object Snap Tracking:** Use **Polar Tracking** (F10) for drawing at specific angles. Combine this with **Object Snap Tracking** to track along object snap points without needing to hover over the geometry.

6. Leverage 3D Modeling and Visualization Tools

- **Dynamic View Rotation:** Use **ViewCube** for quick access to various view orientations, such as **Top, Front, Isometric**, and **User Defined Views**. Right-click on the ViewCube to set views and camera positions for more precise navigation.
- **Camera for 3D Views:** Use the **Camera** tool to create custom views that allow you to model and present 3D objects from specific perspectives. You can adjust the camera's position and lens for unique viewpoints.
- **Visual Styles:** Utilize **Visual Styles** (e.g., Wireframe, Shaded, Realistic) to quickly switch between different representations of 3D models. Assign these visual styles to different layouts to display your models differently in paperspace vs. model space.

7. Speed Up Drawing with Blocks and Dynamic Blocks

- **Use Blocks for Repeated Components:** If you're using the same components often, save them as **blocks** to save time and maintain consistency. You can create blocks of anything from simple shapes to complex assemblies.
- **Dynamic Blocks:** With **Dynamic Blocks**, you can create more flexible blocks that can adapt to different sizes or shapes. Use the **Block Editor** to make dynamic blocks more customizable with parameters like stretch, rotation, and visibility states.

8. Use Constraints for Precision and Parametric Design

- **Geometric Constraints:** Apply geometric constraints (like **Collinear**, **Perpendicular**, or **Coincident**) to enforce geometric relationships between objects, helping maintain design intent while editing.
- **Dimensional Constraints:** Use **Dimensional Constraints** to control the size and distance between objects. This allows for easy adjustments by changing just a few parameters, keeping the geometry dynamically linked.

9. Utilize Xrefs (External References)

- **Attach Xrefs for Large Projects:** Use **Xrefs** to attach external drawings (like site plans, structural layouts, etc.) to your drawing. This reduces file size and allows for better collaboration.
- **Bind Xrefs for Packaging:** When sending drawings to others, use **Bind** to incorporate external references into the drawing. This makes sure that the external references remain attached and embedded within the file.

10. Manage Large Drawings Efficiently

- **Purge Unused Objects:** Use the **PURGE** command to remove unused objects, layers, and blocks, helping to reduce file size and improve performance. You can also use the **AECTOALL** command to audit and recover AutoCAD files.
- **Audit and Recover Files:** If a drawing is behaving unexpectedly, use the **AUDIT** command to check for errors in the drawing file. If you experience a crash or data loss, use **RECOVER** to open and repair the drawing file.

11. Customize Your Mouse for Productivity

- **Middle Mouse Button (MMB):** Use the **Middle Mouse Button (MMB)** to pan your drawing or zoom in and out (by scrolling). You can also customize the MMB behavior in AutoCAD's **Options > User Preferences**.
- **Mouse Wheel Zooming:** The mouse wheel is very useful for quickly zooming in and out in both **2D** and **3D** views. Holding **Ctrl** and scrolling with the mouse wheel will zoom in or out based on the cursor's location.

12. Automate Repetitive Tasks with Macros

- **Record Macros:** You can automate repetitive tasks by recording them as **macros**. Use the **Action Recorder** in AutoCAD to create macros that save time for tasks you perform often.
- **Assign Macros to Buttons:** Once a macro is recorded, you can assign it to a button on your toolbar, a keyboard shortcut, or even an **alias** for even faster access.

13. File Management and Backup

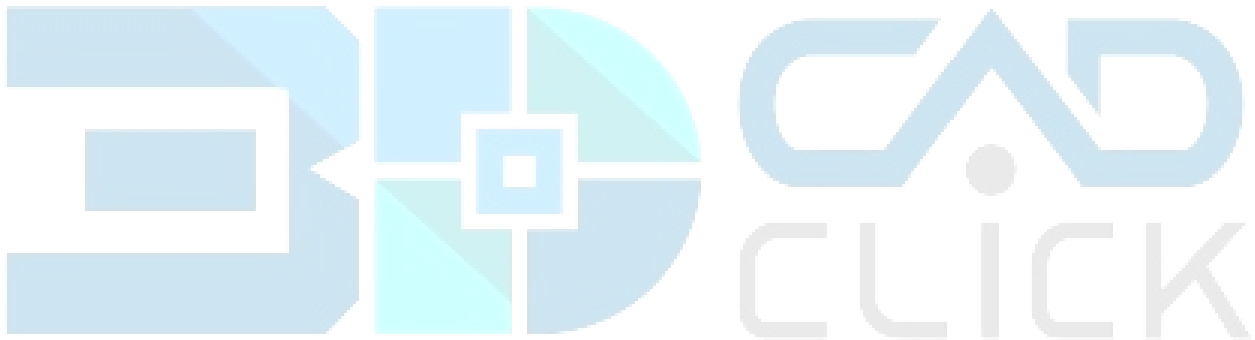
- **Use Incremental Save:** AutoCAD has an **incremental save** feature, which saves versions of your drawing automatically. You can access the backup files if the drawing crashes or you need to revert to an earlier version.
- **Backup Folder Management:** Set up an automatic backup folder in **Options > Files** where AutoCAD saves backup copies of your drawing at regular intervals.

14. Efficient Printing and Plotting

- **Plot with Page Setup:** Set up a **Page Setup** for each layout to save the print settings, such as printer selection, scale, paper size, and margins. This saves time when plotting drawings repeatedly.
- **Plot Preview:** Always use the **Plot Preview** to check your drawing's appearance before printing, ensuring your text, scales, and annotations are correctly aligned.

Bonus Tips:

- **Use Layers for Simplified Navigation:** Keep related objects (like walls, electrical fixtures, etc.) on separate layers. This makes it easier to navigate through the drawing and apply mass changes to related objects without impacting others.
- **Take Advantage of the Online Help:** The **F1** key brings up the **AutoCAD Help** menu, which is a very valuable resource for troubleshooting or learning new techniques in AutoCAD.
- **Use Multi-Viewports:** For large or complex drawings, split the screen into multiple viewports using **Viewport Configuration (VPORTS)**, allowing you to view multiple parts of your drawing simultaneously.



About the author:



Dr. Syed Jabiulla

making complex design concepts easy to understand and apply. His mission is to empower learners worldwide with practical skills and in-depth knowledge to succeed in the field of computer-aided design.

Dr. Syed Jabiulla is a seasoned mechanical engineer with over 13 years of experience in CAD training and design. He holds a Ph.D. in Mechanical Engineering and is the founder of **3DCAD Click**, an ISO-certified online training platform based in Bangalore. Through **3DCADClick.com**, he offers globally accessible CAD education, catering to both students and professionals.

With a strong blend of academic excellence and industry experience, Dr. Jabiulla is known for

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Thank You