LibreCAD command reference

Line

Tool	Icon	Com	Description
2 points		l, li, line	Draw a line between two assigned points. **Tool Options:** Close Undo Redo
Angle			Draw a line from an assigned point defining the start, middle or end of the line and with an assigned length and angle. **Tool Options:** Angle: 30 Length: 10 Snap Point: Start
Horizontal		hor, horizontal	Draw a horizontal line from an assigned point defining the start, middle or end of the line and with an assigned length. **Tool Options:** Length: 10 Snap Point: Start
Vertical		ver, vertical	Draw a vertical line from an assigned point defining the start, middle or end of the line and with an assigned length. **Tool Options:** Length: 10 Snap Point: Start
Rectangle		rec, rect, rectangle	Draw a rectangle by assigning the points of two diagonally opposite corners.
Parallel through point		pp, ptp	Draw a given number of lines parallel to a selected existing line through an assigned point. **Tool Options:** Number: 1
Parallel		o ,pa, offset, parallel	Draw a given number of lines parallel to a selected existing line with a given distance between lines. **Tool Options:** Distance 10 Number: 1
Bisector		bi, bisect	Draw a given number of lines bisecting two existing non-parallel lines (e.g. at an angle to each other with or without a common point). **Tool Options:** Length: 10 Number: 1
Tangent (P,C)		tanpct angentpc	Draw a line from an assigned point tangent to an existing circle.
Tangent (C,C)			Draw a line tangent to two existing circles.
Tangent Orthogonal			Draw a line tangent to an existing circle and perpendicular to an existing line.
Orthogonal		ortho, perp	Draw a line of a given length perpendicular to an existing line placing the centre at an assigned point. **Tool Options:** Length: 10

Tool	Icon	Com	Description
Relative Angle			Draw a line with a given length and at a given angle relative to an existing line placing the centre of the line at an assigned point. **Tool Options:** Angle: 30 Length: 10
Polygon (Cen,Cor)		pl, polyline	Draw a polygon with a given number of sides assigning the centre point and point of one vertex. **Tool Options:** Number: 3
Polygon (Cen,Tan)			Draw a polygon with a given number of sides assigning the centre point and point of the centre of one side. **Tool Options:** Number: 3
Polygon (Cor,Cor)		poly2, polygon2v	Draw a polygon with a given number of sides assigning the two points of one side. **Tool Options:** Number: 3

Circle

Tool	Icon	Com	Description
Centre, Point		ci, circle	Draw a circle with a given radius by assigning a centre point and a point on the circumference.
2 Points		c2, circle2	Draw a circle with a given diameter by assigning two opposite points on the circumference.
2 Points, Radius			Draw a circle with two points on the circumference and with an assigned radius. **Tool Options:** Radius: 10
3 Points		c3, circle3	Draw a circle assigning three points on the circumference.
Centre, Radius			Draw a circle with a given radius centred at an assigned point on the circumference. **Tool Options:** Radius: 10
Tangential, 2 Circles, 1 Point			Draw a circle tangential to two existing circles and assigning a centre point to establish the radius.
Tangential, 2 Points			Draw a circle tangential to an existing circle and define the diameter and placement by assigning two points on the circumference.
Tangential, 2 Circles, Radius			Draw a circle tangential to two existing circles with a given radius. **Tool Options:**

Tool	Icon	Com	Description
			Radius: 10
Tangential, 3 Circles		ct3, tan3	Draw a circle tangential to three existing circles and/or lines.

Curve

Tool	Icon	Com	Description
Center, Point, Angles			Draw a curve (arc) with a given radius defined by a center point and a point on the circumference, the direction of rotation (clockwise or counter-clockwise), a point defining the start position of the arc and a point defining the end position of the arc. **Tool Options:**
3 Points		a, ar, arc	Draw a curve (arc) by assigning three points on the circumference of the arc defining the start position, a point on the circumference and end position of the arc.
Arc Tangential			Draw a curve (arc) tangential to the end of an existing line segment with a defined radius or angle (deg). **Tool Options:** Radius 10 • Angle 30 or • Radius 10 Angle 30
Spline		spl, spline	Draw an open or closed spline (curve) by assigning control points and a given degree of freedom (1 - 3). **Tool Options:** Degree: 1 ▾ ☐ Closed Undo
Spline through points		stp, spline 2	Draw an open or closed spline (curve) by defining points on the spline. **Tool Options:** ☐ Closed Undo
Ellipse Arc (Axis)			N/A
Freehand Line		fhl, free	Draw a non-geometric line.

Ellipse

Tool	Icon	Com	Description
Ellipse (Axis)			Draw an ellipse by assigning a centre point, a point on the circumference of major access and a point on the circumference the minor access.
Ellipse Foci Point			Draw an ellipse by assigning two foci points and a point on the circumference.
Ellipse 4 Point			Draw an ellipse assigning four points on the circumference.

Tool	Icon	Com	Description
Ellipse Center and 3 Points			Draw an ellipse by assigning a centre point three points on the circumference.
Ellipse Inscribed		ei, ie	Draw a Ellipse constrained by four existing non-parallel line segments.

Polyline

Tool	Icon	Com	Description
Polyline		pl, polyline	Draw an open or closed continuous line consisting of one or more straight line or arc segments defined by endpoints and / or radius or angle for arcs. **Tool Options:** Close Undo Line ▾ Options include Line and for curved segments; Tangential, Tan Radius and Angle.
Add node			Add node to existing polyline. (Use "Snap on Entity" to place new node on segment.)
Append node			Add one or more segments to an existing polyline by selecting polyline and adding new node endpoint.
Delete node			Delete selected node of an existing polyline.
Delete between two nodes			Delete one or more nodes between selected nodes of an existing polyline.
Trim segments			Extend two separate non-parallel segments of an existing polyline to intersect at a new node.
Create Equidistant Polylines			Draw a given number of polylines parallel to a selected existing polyline with a given distance between lines. **Tool Options:** Spacing: 10 Copies: 1
Create Polyline from Existing Segments			Create polyline from two or more existing separate line or arc segments forming a continuous line.

Select

Tool	Icon	Com	Description
Deselect all		tn	Deselect all entities on visible layers ([Ctrl]-[K] or default [Esc] action).
Select All		sa	Select all entities on visible layers ([Ctrl]-[A]).
Select Entity			Select, or deselect, one or more entities (default cursor action).
(De-)Select Contour			Select or deselected entities connected by shared points.

Tool	Icon	Com	Description
Select Window			Select one or more entities enclosed by selection window (L to R), or crossed by selection window (R to L) (default cursor "drag" action).
Deselect Window			Deselect one or more entities enclosed by selection window (L to R), or crossed by selection window (R to L).
Select Intersected Entities			Select one or more entities crossed by selection line.
Deselect Intersected Entities			Deselect one or more entities crossed by selection line.
(De-)Select Layer			Select or deselected all entities on the layer of the selected entity.
Invert Selection			Select all un-selected entities will deselecting all selected entities.

Dimension

Tool	Icon	Com	Description
Aligned		da	Apply dimension lines and text aligned to an existing entity by selecting start and end points on a line segment and placement point for the text. **Tool Options:** Label: ⌀ ⌀ ▾
Linear		dr	Apply dimension lines and text at an defined angle to an entity by selecting start and end points on a line segment and placement point for the text. **Tool Options:** Label: ⌀ ⌀ ▾ Angle: 30
Horizontal		dh	Apply dimension lines and text aligned to an entity by selecting start and end points on a line segment and placement point for the text. **Tool Options:** Label: ⌀ ⌀ ▾
Vertical		dv	Apply dimension lines and text aligned to an entity by selecting start and end points on a line segment and placement point for the text. **Tool Options:** Label: ⌀ ⌀ ▾
Radial		dimradial	Apply dimension lines and text a circle's or arc's radius by selecting entity and placement point for the text. **Tool Options:**

Tool	Icon	Com	Description
			Label: ⌀ ⌀ ▾
Diametric		dimdiameter	Apply dimension lines and text a circle's or arc's diameter by selecting entity and placement point for the text. **Tool Options:** Label: ⌀ ⌀ ▾
Angular		dimangular	Apply angular dimension by selecting two existing non-parallel line segments and placement point for the text. **Tool Options:** Label: ⌀ ⌀ ▾
Leader		ld	Draw a text leader by by selecting start (arrow location), intermediate and end points.

Modify

Tool	Icon	Com	Description
Order			Order entities within a layer. Selected entities can be moved to top, bottom, *raised* (moved forward) over another entity or *lowered* (moved backwards) behind an entity.
Move / Copy		mv	Move a selected entity by defining a reference point and a relative target point. Optionally keep the original entity (Copy), create multiple copies and / or alter attributes and layer.
Rotate		ro	Rotate a selected entity around a rotation point, moving the entity from a reference point to a target point. Optionally keep the original entity, create multiple copies and / or alter attributes and layer.
Scale		sz	Increase or decrease the size of a selected entity from a reference point by a defined factor for both axis. Optionally keep the original entity, create multiple copies and / or alter attributes and layer.
Mirror		mi	create a mirror image of a selected entity around an axis defined by two points. Optionally keep the original entity and / or alter attributes and layer.
Move and Rotate			Move a selected entity by defining a reference point and a relative target point and rotating the entity at a given angle. Optionally keep the original entity,

Tool	Icon	Com	Description
			create multiple copies and / or alter attributes and layer.
Rotate Two			Rotate a selected entity around an absolute rotation point, while rotating the entity around a relative reference point to a target point. Optionally keep the original entity, create multiple copies and / or alter attributes and layer.
Revert direction		revert	Swap start and end points of one or more selected entities.
Trim		tm, trim	Cut the length of a line entity to an intersecting line entity.
Trim Two		t2, tm2	Cut the lengths of two intersecting lines to the point of intersection.
Lengthen		le	Extend the length of a line entity to an intersecting line entity. **Tool Options:** Length: 10
Offset		o, pa, offset, parallel	Copy a selected entity to a defined distance in the specified direction.
Bevel		ch, bevel	Create a sloping edge between two intersecting line segments with defined by a setback on each segment. **Tool Options:** ✓ Trim Length 1: 1 Length 2: 1
Fillet		fi, fillet	Create a rounded edge between two intersecting line segments with defined radius. **Tool Options:** ✓ Trim Radius: 10
Divide		di, div, cut	Divide, or break, a line at the selected ''cutting'' point.
Stretch		ss	Move a selected portion of a drawing by defining a reference point and a relative target point.
Properties		mp, prop	Modify the attributes of a *single* entity including layer, pen color / width / line type and the entity's geometry (varies by type of entity).
Attributes		ma, attr	Modify the common attributes of *one or more* selected entities including layer, pen color / width / line type.

Tool	Icon	Com	Description
Explode Text into Letters			Separate a string of text into individual character entities.
Explode		xp	Separate one or more selected blocks or compound entities into individual entities.
Delete selected		[Del], er	Delete one or more selected entities.

Info

Tool	Icon	Com	Description
Distance Point to Point		dpp, dist	Provides distance, cartesian and polar coordinates between two specified points.
Distance Entity to Point			Provides shortest distance selected entity and specified point.
Angle between two lines		ang, angle	Provides angle between two selected line segments, measured counter-clockwise.
Total length of selected entities			Provides total length of one or more selected entities (length of line segment, circle circumference, etc.).
Polygonal Area		ar, area	Provides area and circumference of polygon defined by three or more specified points.

Others

Tool	Icon	Com	Description
MText		mtxt, mtext	Insert multi-line text into drawing at a specified base point. Optionally define font, text height, angle, width factor, alignment, angle, special symbols and character set. **Tool Options:** Text: A line of text Angle:
Text		txt, text	Insert single-line text into drawing at a specified base point. Optionally define font, text height, alignment, angle, special symbols and character set. **Tool Options:** Text: A line of text Angle: 0
Hatch		ha, hatch	Fill a closed entity (polygon, circle, polyline, etc) with a defined pattern or a solid fill. Optionally define scale and angle.
Points		po, point	Draw a point at the assigned coordinates.

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