Main Types of Lines

	solid line, full line, visible out l	ine
	Dashed line, invisible line	Hidden Line
ja	construction line, guide line, (extension line, dimension line	Transfer Line) ,Section Line (Cross-
	Center line	Hatching Line)
	Cutting-plane line	
\sim	Break line	
	Chain line	
	Phantom line	

Line Groups

Line Group	Thickness of Lines		
	01.2-02.2-04.2	01.1-02.1-04.1-05.1	
0,25	0,25	0,13	
0,35	0,35	0,18	
0,5ª	0,5	0,25	
0,7 ^a	0,7	0,35	
1	1.000	0,5	
1,4	1,4	0,7	
2	2	1	

.007″	.010″	.012″	.014″	.020″	.024″
.18 mm	.25 mm	.30 mm	.35 mm	.50 mm	.60 mm
.028″	.031″	.039″	.047″	.055″	.079″
.70 mm	.80 mm	1.00 mm	1.20 mm	1.40 mm	2.00 mm

SINGLE FEATURES

The following sketches illustrate some of the single features that could be on a component.



3/23/2020

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Combinations of Single Features

The following sketch illustrates some combinations of single features that could be on a component.



Dr. Murat Sönmez

Type of Line	Application	Description
Hidden line		The hidden object line is used to show surfaces, edges, or corners of an object that are hidden from view.
Center line THIN ALTERNATE LINE AND SHORT DASHES		Center lines are used to show the center of holes and symmetrical features.
Symmetry line	SYMMETRY LINE	Symmetry lines are used when partial views of symmetrical parts are drawn. It is a center line with two thick short parallel lines drawn at right angles to it at both ends.
Extension and dimension lines		Extension and dimension lines are used when dimensioning an object.

TABLE 4-1 Types of lines. (continued on next page)



Type of Line	Application	Description
Visible line		The visible line is used to indicate all visible edges of an object. They should stand out clearly in contrast to other lines so that the shape of an object is apparent to the eye.
Section lines		Section lining is used to indicate the surface in the section view imagined to have been cut along the cutting-plane line.
Viewing-plane line THICK OR	OR	The viewing-plane line is used to indicate direction of sight when a partial view is used.

TABLE 4-1Types of lines. (continued)





Hidden Lines

















Full Sectional View











poor practice

preferred

Poor practice

Preferred.

Section lining : Recommended practice 2

It should not run parallel or perpendicular to contour of the view.





Center Line



Show the axis of symmetry if the view has curved features



Details on Center Lines





Priorities of Lines: 1. Visible Out Line 2. Hidden Line 3. Center Line





Lengths of Dashes





Construction Line, Extension Line, Dimension Line, Cross-Hatching Line, Guide Line





Line Quality (Some details in board-pencil drawing)

