

Countersink Depth Training

Countersink Depth_Training.zip



Countersink Depth - Overview

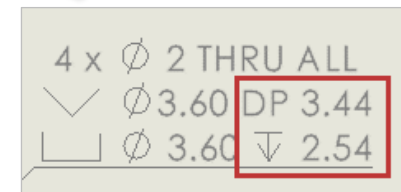
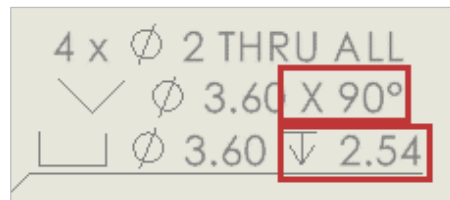
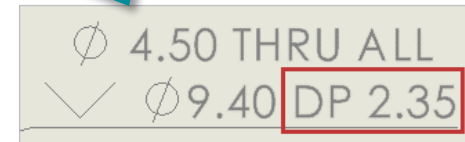
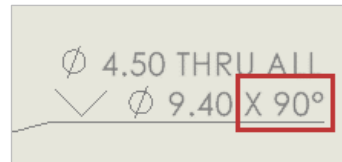
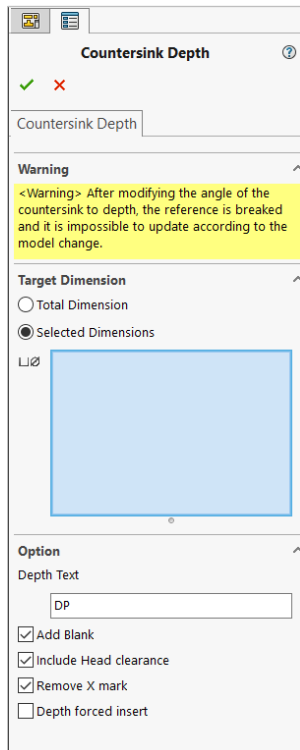
Main Functions

- Display hole properties for countersink as depth rather than angle
- Display including head clearance
- Show depth in countersink hole callout with broken reference

Benefits

- Increase work efficiency by automatically inserting the countersink depth value without calculating it
- Batch editing of large number of hole callouts, reducing work time

Course Objective: Follow the instructions through course and learn how to use Countersink Depth

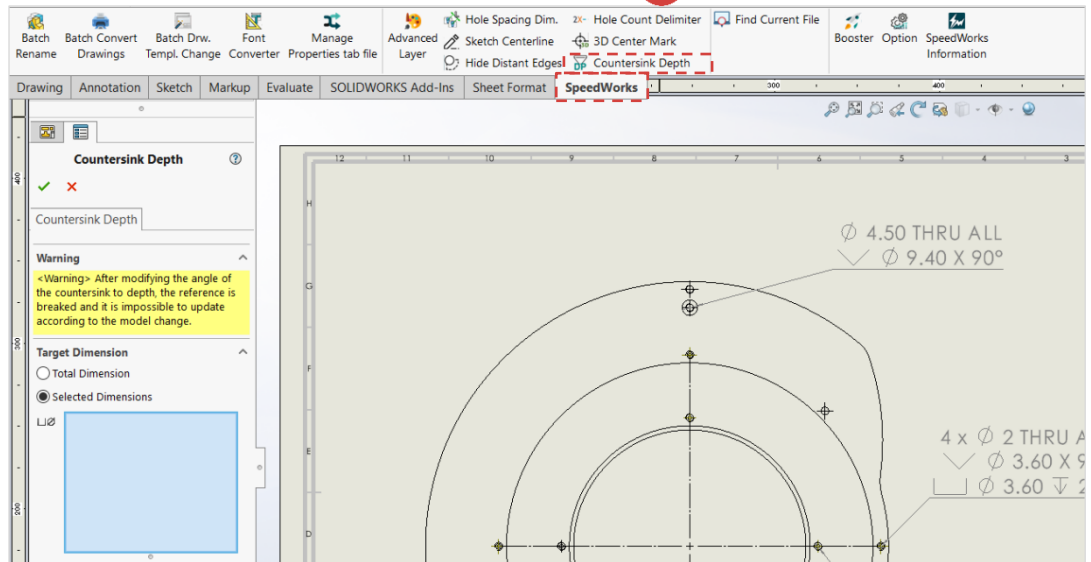


Countersink Depth - Execute

1 Execute **699-0416.SLDDRW** file among example files.

2 Click **[SpeedWorks]tab - [Countersink Depth]** to run the tool.

Name	Date modified	Type	Size
699-0416.SLDDRW	5/10/2022 3:08 PM	SOLIDWORKS Dra...	113 KB
699-0416.SLDPRT	5/10/2022 3:06 PM	SOLIDWORKS Part...	236 KB



※ You can download example files at Support page in SpeedWorks Homepage(<http://speedworks.info>).

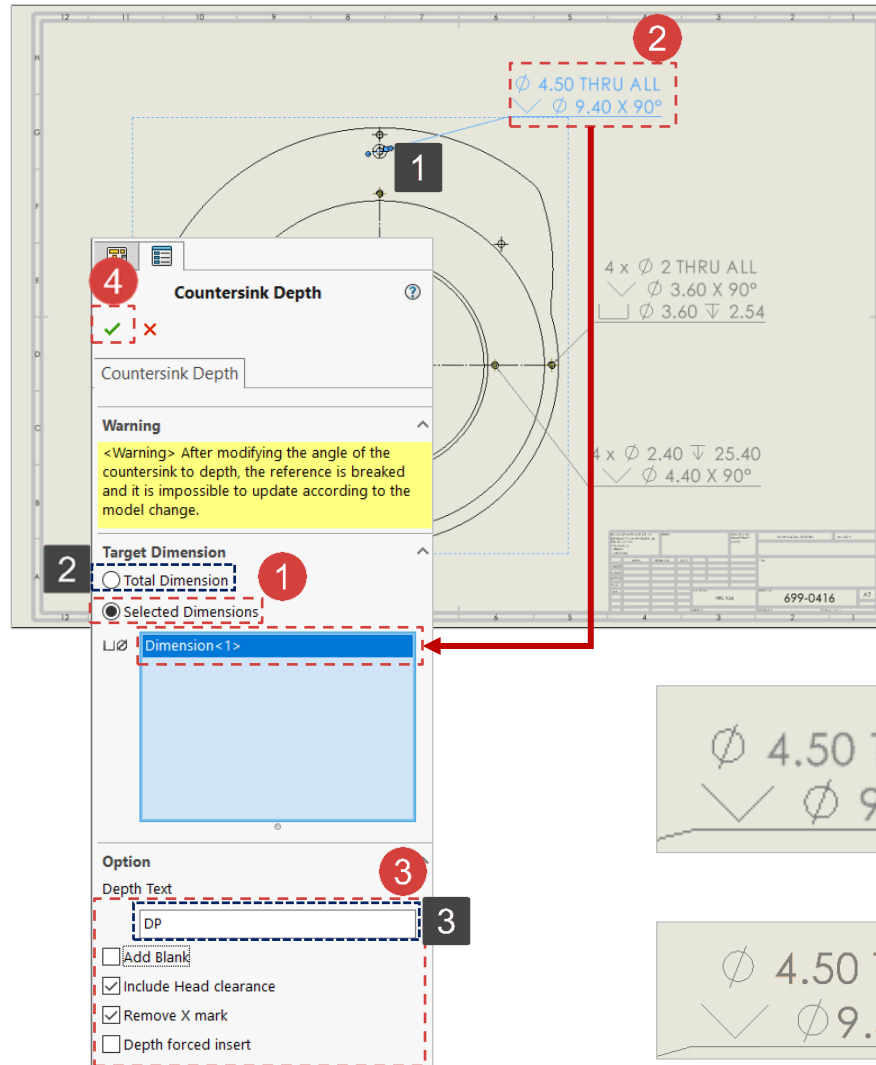
Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

Countersink Depth - Apply Default Type

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Select **[Selected dimensions]**.
- 2 Select **Ø4.50 THRU** hole callout.
- 3 Set the options as follows.
[Depth Text]: DP
[Add Blank]: uncheck
[Include Head clearance]: check
[Remove X mark]: check
[Depth forced insertion]: uncheck
- 4 Click **[OK]** button.

- 1 This screen is the countersink depth screen.
- 2 Through **[Total Dimension]** option, applicable to all countersink hole callouts.
- 3 **[Depth Text]:** Enter depth value text.
- 4 Before converting countersink depth callout
- 5 After converting countersink depth callout

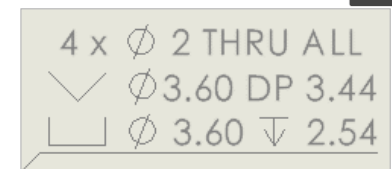
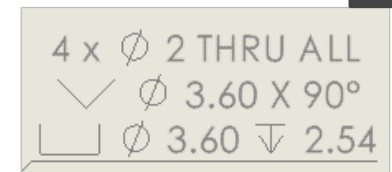
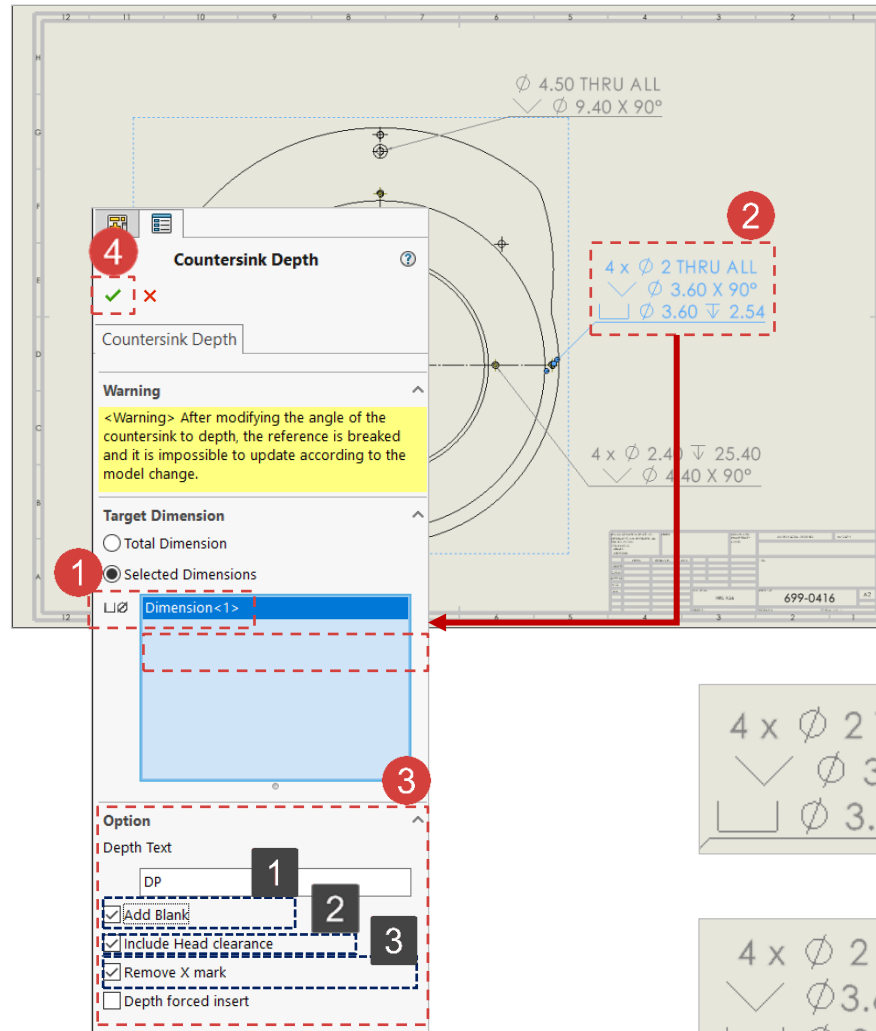


Countersink Depth - Include Head clearance

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

- 1 Select **[Selected dimensions]** in target dimension.
- 2 Select **4 x Ø2 THRU** Countersink hole callout.
- 3 Set the options as follows.
[Depth Text]: DP
[Add Blank]: check
[Include Head clearance]: check
[Remove X mark]: check
[Depth forced Insertion]: uncheck
- 4 Select **[Ok]** button.

- 1 **[Add Blank]:** Checks whether to insert a space between the depth text and the depth value.
- 2 **[Include Head clearance]:** In countersinks that use head clearance, include the height of the head clearance in the depth dimension.
- 3 **[Remove X mark]:** Removes the X value before the existing angle value.
- 4 Countersink hole callout before changing depth dimension
- 5 Countersink hole callout after changing depth dimension



Countersink Depth - Depth forced insertion

Work on the part with the red circle (1) following instructions by yourself.
The part with the black square (1) is an additional explanation or a reference.

1 Edit **4 x Ø2.40 countersink hole callout text** from **<NUM_INST> x <MOD-DIAM> <hw-diam> <HOLE-DEPTH> <hw-depth><HOLE-SINK> <MOD-DIAM> <hw-csdia> X <hw-csang>** to **<NUM_INST> x <MOD-DIAM> <hw-diam>.**

2 Select **[Yes]** button in reference broken warning.

3 Check **[Selected dimensions]** option.

4 Select **4 x Ø2.40** countersink hole callout.

5 Check **[Depth forced insertion]** option.

6 Click **[Ok]** button.

1 This screen is the dimension editing screen.

2 That screen is the reference broken warning message screen.

3 **[Depth forced insertion]:** Forces depth values to hole callouts with broken references.

4 Countersink hole callout before changing depth dimension

5 Countersink hole callout after changing depth dimension

