

# Set Your Own Stamp.

## Obtain Up-to-date Drawing Dimensions via CAD Integration.



3A3TEC

The Software for Quality



# CAD Integration From Babtec

Design drawings are an essential foundation for all planning processes. They contain all the requirements that the finished product has to meet. All the characteristics that need inspecting in order to assure quality can thus be derived from the provided data. Our proprietary and fully-integrated solution for analyzing CAD drawings in BabtecQ R7 allows you to automatically recognize digitalized drawing dimensions, manage them centrally and make them available to other modules.

The new 7.2 update expands automatic detection of the drawing dimensions and also offers you a wizard that takes you through the expanded comparison of drawing dimensions step by step. This ensures that you obtain precise results and the latest drawing dimensions.



# Centrally Manage and Share CAD Drawing Dimensions

With the help of CAD integration in BabtecQ, you can mark 2D digital CAD drawings with digital stamps to clearly label the features that are relevant for your quality processes. Various current stamp templates are available for this and you can also create other, individual stamps. The integrated tolerance tables also facilitate your work further. The software uses them to automatically detect the correct specification limits.

The uniquely labeled features are now saved in the central drawing folders and can be used during part approval processes and in inspection plans. When features are linked in the relevant inspection plans and part approval processes and these features are changed in the drawing folder, you will automatically be notified that the relevant inspection plans will need to be changed as well.

**To ensure that working with product specifications and characteristics is even more effective in future, BabtecQ offers independent CAD integration.**



# Up-to-date Drawing Dimensions: Your Step-by-step Guide

With the drawing dimensions comparison, you can ensure that you are always working with the latest dimensions. From now on, a wizard systematically guides you through the individual steps of the expanded comparison of different drawing versions. With this, you are sure to obtain the latest drawing dimensions. Each feature that is linked to drawing dimensions from a drawings folder can be updated to match the new version of the drawing with little effort. Dimensions in current 2D CAD exchange formats are iden-

tified and compared – regardless of whether they are in the same position with no changes, in the same position with a revised measurement text or in a new position with unchanged measurements. Click through the seven process steps one by one and decide which drawing dimensions need to be adopted. Each step provides information explaining what is being done and how the available tools work.

**Our new wizard guides you through the comparison of the drawing dimensions between old and new change levels and informs you of the results immediately.**

The screenshot displays a CAD application window with two side-by-side technical drawings of a mechanical part. The left drawing represents the original design, and the right drawing shows the updated design. A comparison table at the bottom of the interface lists dimensions found again, at other positions, at the same position, and not found. The table includes columns for State, Stamp Number, Characteristic type, Dimension Text, Nominal value, UT, LT, Tolerance Table, Tolerance Class, Measurement type, Stamp Template, and Count. The table highlights changes in dimensions 390, 410, 415, 420, 425, and 430.

State	Stamp Number	Characteristic type	Dimension Text	Nominal value	UT	LT	Tolerance Table	Tolerance Class	Measurement type	Stamp Template	Count
Unchanged	385	Angle	30°	30.0000		0.5000	-0.5000 DIN ISO 2768-1 WT	m (over 10 and up to t)	Common Dimension	VDA stamp	1
Missing	390	Mean roughness	3,2	0.0000		3.2000	0.0000		Common Dimension	VDA stamp	1
Unchanged	395	Length	17	17.0000		0.2000	-0.2000 DIN ISO 2768-1 L Ta	m (medium)	Common Dimension	VDA stamp	1
Unchanged	400	Length	34 H8	34.0000		0.0390	0.0000		Inspection Dimension	Inspection Dimension	1
Unchanged	405	Length	8	8.0000		0.2000	-0.2000 DIN ISO 2768-1 L Ta	m (medium)	Common Dimension	VDA stamp	1
Unchanged	410	Length	17	17.0000		0.2000	-0.2000 DIN ISO 2768-1 L Ta	m (medium)	Common Dimension	VDA stamp	1
Unchanged	415	Length	10	10.0000		0.2000	-0.2000 DIN ISO 2768-1 L Ta	m (medium)	Common Dimension	VDA stamp	1
Changed	420	Length	59 ±0,2	59		0,2			Common Dimension	VDA stamp	1
Unchanged	425	Length	50 ±0,1	50.0000		0.3000	0.0000		Common Dimension	VDA stamp	1
Changed	430	Length	324	324		0.5000	-0.5000 DIN ISO 2768-1 L Ta	m (medium)	Common Dimension	VDA stamp	1

The new wizard guides you through the comparison of old and new drawing dimensions in seven steps.

# Minimum Effort for Maximum Results

The ability to recognize drawing dimensions with unchanged measurements that are now located in a different position on the drawing is particularly interesting. Due to space restrictions, the designer may have decided to optimize the new drawing to improve legibility, and therefore moved an entire view including several measurements. In this case, transferring one of these moved measurements from the old drawing to the new one is sufficient. The other measurements within the moved view are then reviewed

and automatically transferred to the new drawing. If measurements should need adjusting later on, you can change the measurement text at the later date. You can manage these adjustments centrally and re-use them in the inspection planning and part approval process modules. Our fully-integrated and central solution for recognizing digitalized measurements in CAD drawings thus serves as the basis for monitoring features in various Q processes.

**When an unchanged dimension is detected in a new position, there is an exclusive option to compare versions of drawings (even those that differ greatly) very precisely with minimum effort.**

Subtec

Drawings - Drawing Folder - Edit Stamped Drawing

according to configuration

Starting Value: 541 Increment: 1

Dimensions found again

Stamp N.	Charact.	Dimension	Nominal	LT	LT	Tolerance	Tolerance	Measure	Stamp T.	Count
440	Diameter	4x ± 11	11.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	4
480	Length	22 (4x)	22.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	4
470	Length	4x ± 2	2.0000	0.1000	-0.1000	DN ISO	m (medium)	Common	VDA stamp	4
475	Length	12	12.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	1
445	Diameter	6 H7	6.0000	0.0120	0.0000			Common	VDA stamp	1
495	Thread	4x M10				DN ISO	m (medium)	Common	VDA stamp	4
465	Length	4x ± 5	5.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	4
500	Length	21	21.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	1
505	Length	26	26.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	1
490	Length	2	2.0000	0.1000	-0.1000	DN ISO	m (medium)	Common	VDA stamp	1
485	Thread	M10x1,5				DN ISO	m (medium)	Common	VDA stamp	1
460	Diameter	± 11	11.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	1
455	Length	4x ± 6	6.0000	0.2000	-0.2000	DN ISO	m (medium)	Common	VDA stamp	2

Dimensions at another position

Dimensions at the same position

Dimensions without drawing reference

Dimensions not found

New dimensions

Summary

Drawingdetails 88-KW-4TR38-R1 - 88-KW-4TR38-R3

Step 2 of 7 "Dimensions at another position"

Transfer Continue

Info

All unchanged stamps of the old drawing are listed in the left table, which were found unchanged in another position in the new drawing. If the table was empty, no stamps matching the criteria were found. To transfer the data of a corresponding stamp to a dimension at another position in the new drawing, select it in the left-hand table and select the corresponding new dimension in the right-hand table. Then click on "Transfer". A transferred stamp is then hidden from the left table.

If necessary, a shift of other unchanged dimensions on the new drawing can be derived from the transfer (vector offset). These recognized dimensions are automatically transferred and also hidden from the left table. Thus, moved items can be identified and

Location: UK

Stella, Robert J. (User)

If the system detects that a drawing dimension has been shifted, all other dimensions in the shifted view will be checked and adopted automatically.

# Additional Information

For additional information, please visit our website or contact us directly.

[www.babtec.de/cadi](http://www.babtec.de/cadi)

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