

ZWCAD MFG

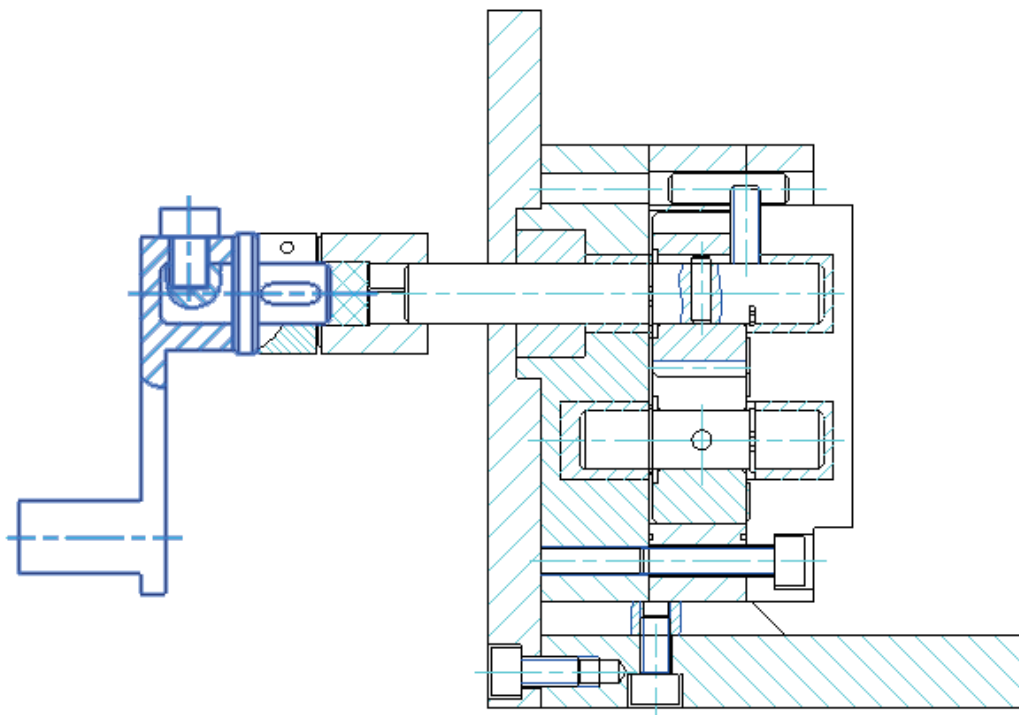
# Benefits of Using ZWCAD MFG



# | Summary

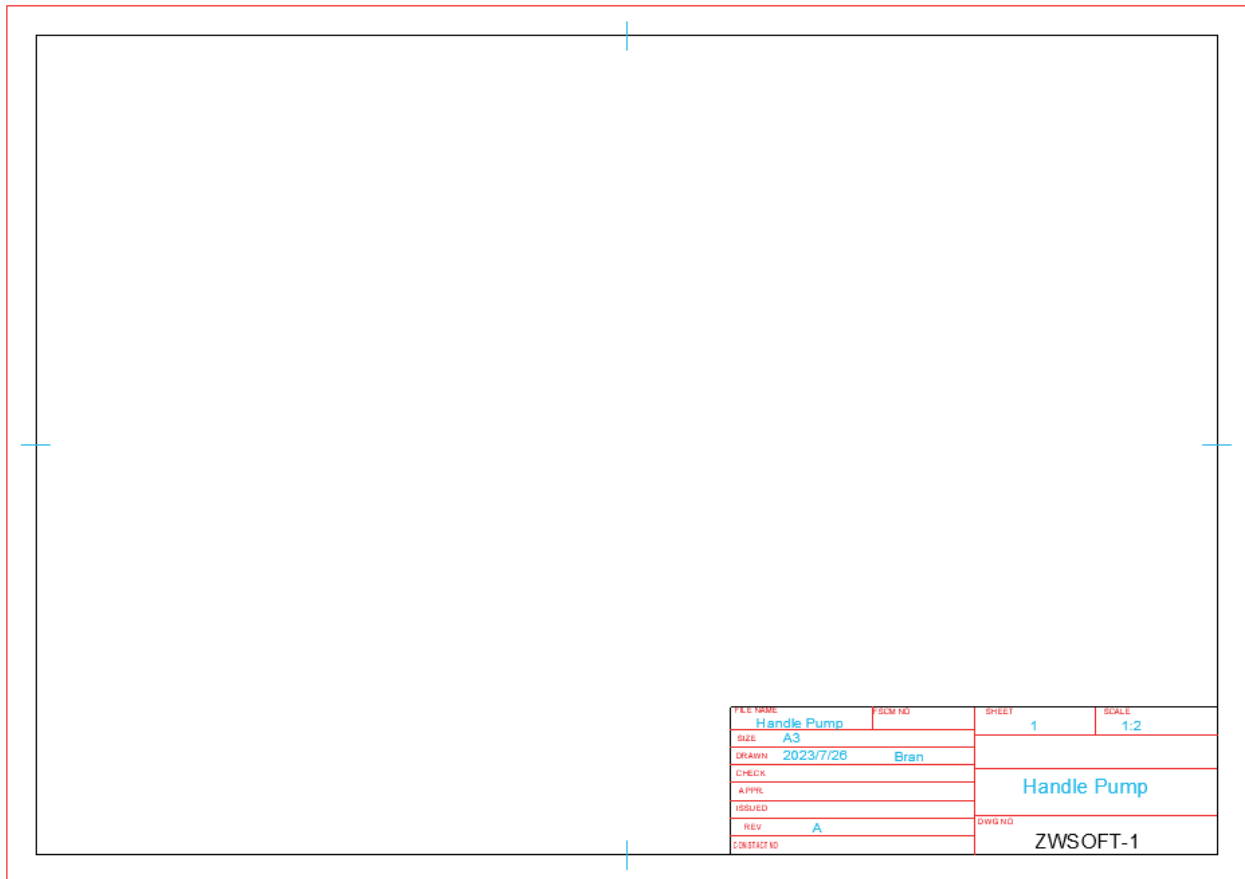
We conducted a comprehensive comparison between ZWCAD and ZWCAD MFG, using a hand pump as an example to perform common design tasks from drafting to detailing. The results revealed that ZWCAD MFG significantly boosted productivity by **51%** compared to ZWCAD.

Let's take a look at these tasks in detail to see how ZWCAD MFG boosted your productivity.



# Part 1: Set up frame

Before we start drawing, we need to set up a drawing frame according to company standards.



## Steps:

- Insert border and title block
- Edit title block
- Preset layers

Part 1: Set up frame	ZWCAD MFG	ZWCAD
Insert border and title block	0:10	0:17
Edit title block	0:24	0:56
Preset layers	0:00	0:31
Total time to complete task	0:34	1:44
<b>Efficiency Improvement</b>	<b>67%</b>	

*(Figures shown in minutes and seconds)*

## Advantages:

ZWCAD MFG supports ISO, DIN, ANSI and other international standards, ensuring that your team can deliver standard-compliant documentation. You can set up the drawing border with the abbreviated dialog box, such as adjusting the drawing scale. After inserting the title block, you can edit its content conveniently by double-clicking it. Both drawing borders and title blocks can be customized to fit your specific needs.

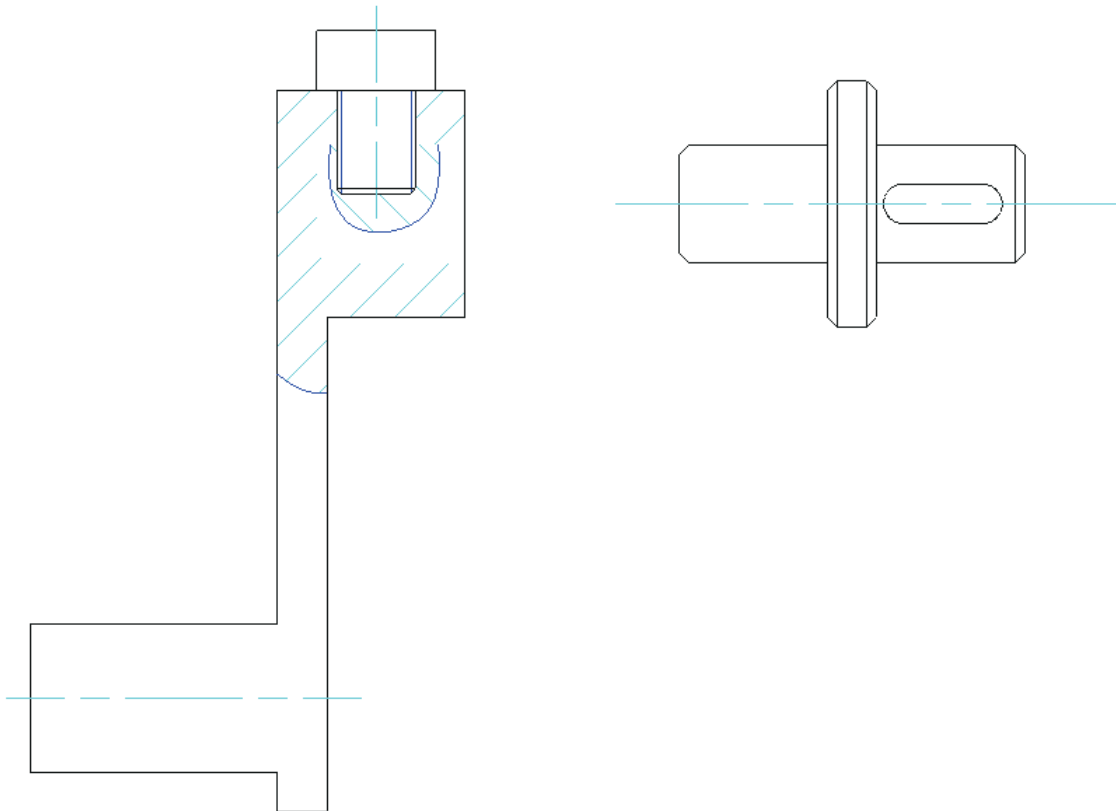
ZWCAD MFG offers automated functions to reduce your time and effort. Once the border and title blocks are inserted, layers will be automatically generated. All objects created using the functions in the ZWCAD MFG module will be organized into their corresponding layers.

## Watch the video:

<https://youtu.be/2x-ldrBHbqg?si=1lBjc1hk20IRg61>

# | Part 2: Modify design

In the design phase, we often need to change the design according to requirements. Here we modified the connecting shaft and the handle.



## Steps:

- Creat new shaft
- Modify handle
- Insert standard part

Part 2: Modify design	ZWCAD MFG	ZWCAD
Create new shaft	0:40	1:52
Insert standard part	0:24	0:08
Modify handle	1:18	1:18
Total time to complete task	2:22	3:18
<b>Efficiency Improvement</b>	<b>28%</b>	

*(Figures shown in minutes and seconds)*

## Advantages:

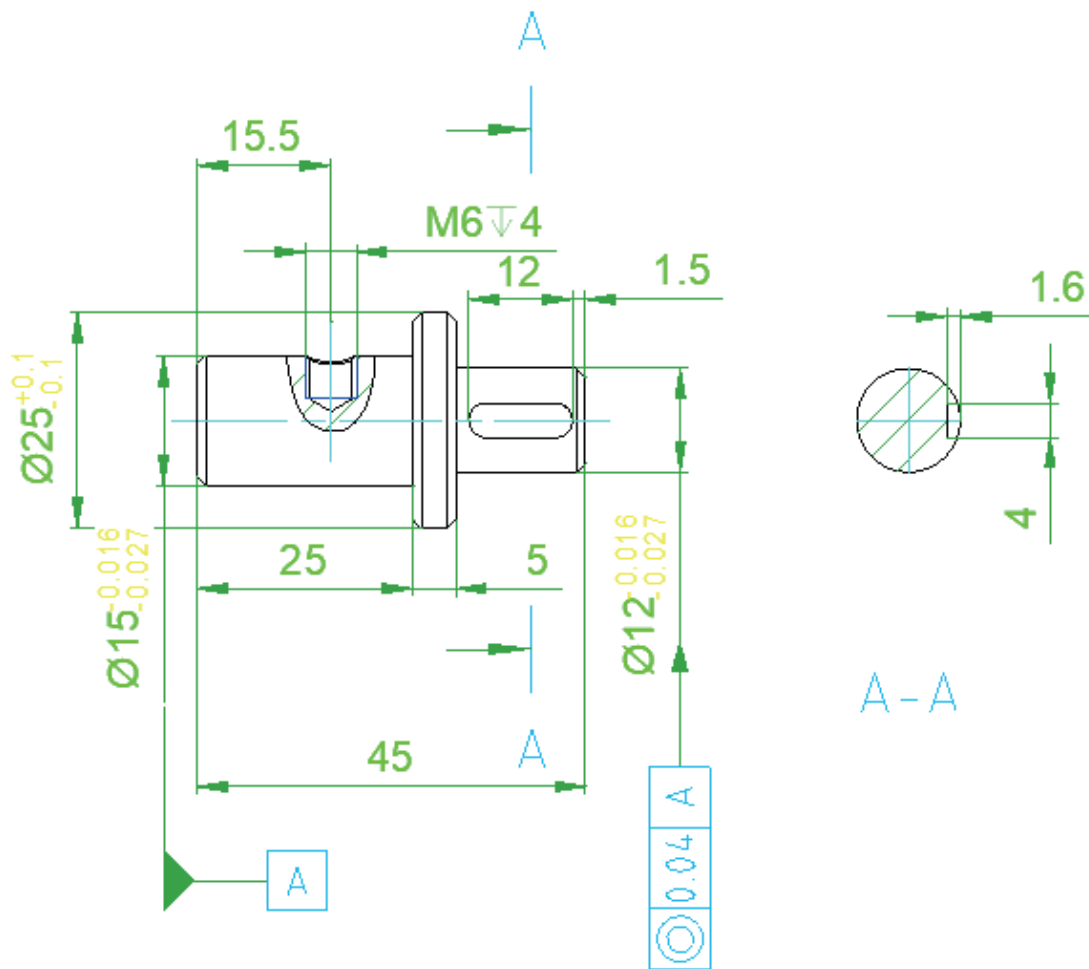
Drawing parts in ZWCAD is not a difficult task, but it requires many manual tasks. ZWCAD MFG offers an extensive library of standard parts, a powerful shaft generator and more so you don't have to draw everything from scratch.

## Watch the video:

<https://youtu.be/QhcnzVPb66I?si=a15HIR2ptCGE6stR>

# Part 3: Create part drawing

After finishing the modification of the design scheme, we need to create a part drawing for production.



## Steps:

- Creat view
- Add dimensions
- Add annotations
- Add technical requirements

Part 3: Create part drawing	ZWCAD MFG	ZWCAD
Creat view	0:52	1:20
Add dimensions	1:50	1:45
Add symbols	0:31	0:30
Add technical requirements	0:12	0:49
Set layers	0:00	1:20
Total time to complete task	3:25	5:44
<b>Efficiency Improvement</b>	<b>40%</b>	

*(Figures shown in minutes and seconds)*

## Advantages:

ZWCAD MFG offers a handy view creation tool, a blend of annotation functions and options, such as Power Dimension and Geometric Tolerance, and a library of technical requirements. All these features can help you create part drawings faster and more accurately.

Here are some of the most popular features:

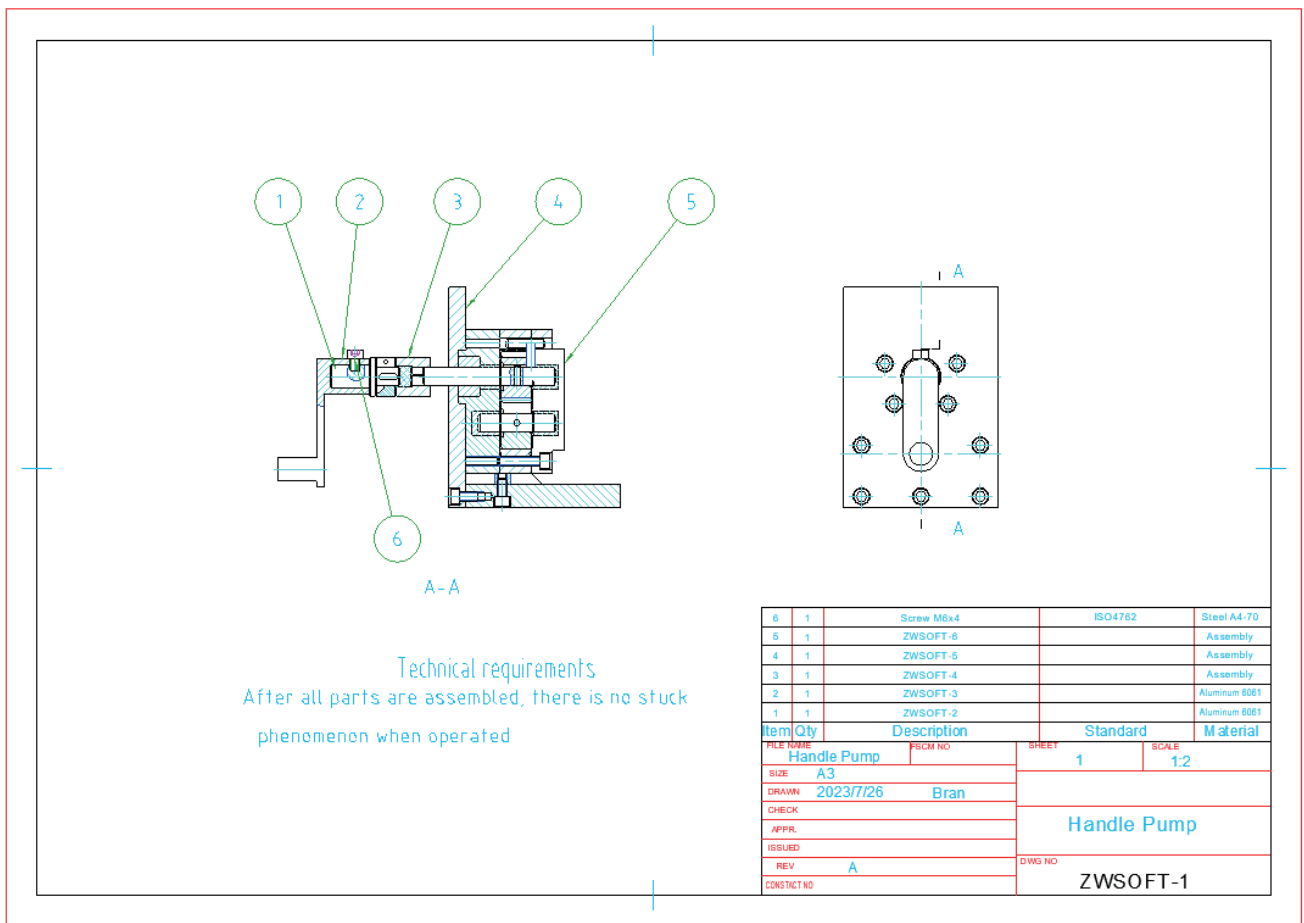
- Section View: Quickly generate section lines and view names.
- Super Edit: Modify annotations with a double-click.
- Power Dimension: Automatically generates the appropriate dimension type according to the recognized object.

## Watch the video:

[https://youtu.be/4rkWn0oXUXU?si=ka5t\\_j1ZxgRc7k6Y](https://youtu.be/4rkWn0oXUXU?si=ka5t_j1ZxgRc7k6Y)

# Part 4: Create assembly drawing

After creating the part drawing, we need to create an assembly drawing to specify the material required and provide guidance for further installation.



## Steps:

- Add balloons
- Add bill of materials (BOM)
- Add technical requirements

Part 4: Create assembly drawing	ZWCAD MFG	ZWCAD
Add balloons	1:30	0:43
Add bill of materials (BOM)	0:05	3:44
Add technical requirements	0:15	0:48
Set layers	0:00	0:43
Total time to complete task	1:50	5:58
<b>Efficiency Improvement</b>	<b>69%</b>	

*(Figures shown in minutes and seconds)*

## Advantages:

In ZWCAD, adding balloons and BOMs are labour-intensive and errors might occur due to manual manipulation. ZWCAD MFG provides automatic BOMs associated with balloons and part properties, greatly improving efficiency and reducing errors.

## Watch the video:

<https://youtu.be/EcoOavpxzCw?si=28RlzDziyJgsWsEb>

# Conclusion

Here's a complete look at the needed CAD working time for the complete project:

Project tasks	ZWCAD MFG	ZWCAD
Part 1: Set up frame	0:34	1:44
Part 2: Modify design	2:22	3:18
Part 3: Create part drawing	3:25	5:44
Part 4: Create assembly drawing	1:50	5:58
Total Time	8:11	16:44
<b>Efficiency Improvement</b>	<b>51%</b>	

*(Figures shown in minutes and seconds)*

Based on the study, it is found that ZWCAD MFG can improve efficiency by **51%** compared to ZWCAD in performing common design tasks. ZWCAD MFG offers standardized, intelligent and customizable functions, helping users get rid of repetitive, manual work and create standardized designs faster and easier.

## Download ZWCAD MFG with a 30-day free trial:



<https://www.zwsoft.com/product/zwcad/mfg>

*Performance tests are measured using specific machines, operating systems, hardware, system configurations and materials. Any change to any of those factors may cause the results to vary.*

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 32/F, Pearl River Tower, No.15, Zhujiang West Road, Tianhe District, Guangzhou, China, 510623  
 +86-20-38289780  
 [sales@zsoft.com](mailto:sales@zsoft.com)  
 [www.zsoft.com](http://www.zsoft.com)