Overview

GstarCAD Mechanical 2026

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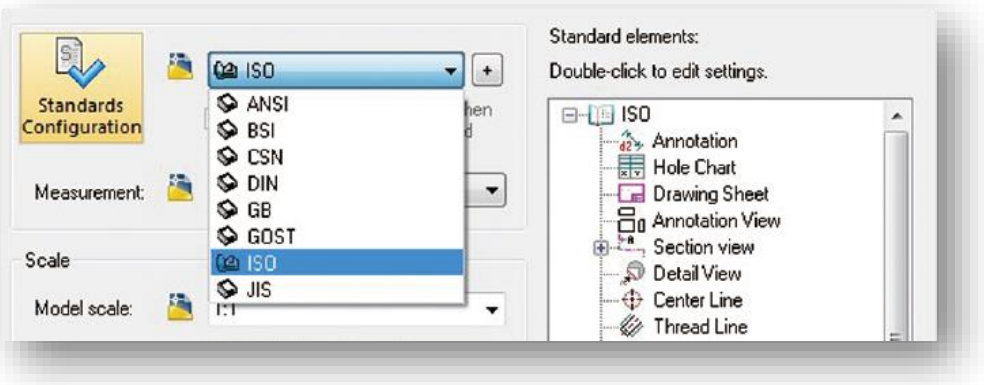
Manufacturing Solutions

GstarCAD Mechanical 2026 drafting/design software, covers all fields of mechanical design. It supplies the latest standard parts library, symbol and dimensioning tools in line with standards in different countries being compatible with ACM drawings from 6 (2002) to latest (2018). The standardized mechanical design enhances efficiency of designers and helps them complete accurate product ideas.

Standard & Efficient Mechanical Design

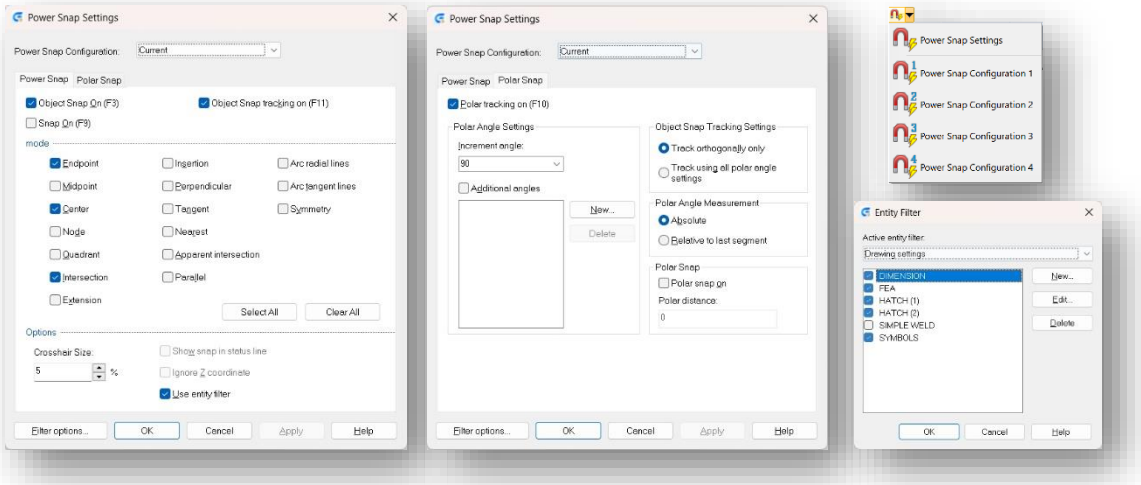
Standards-based

GstarCAD Mechanical 2026 supplies international drafting standards like ANSI/BSI/CSN/DIN/GB/GOST/ISO/JIS that are super customizable, helping engineers to meet design requirements by simplifying mechanical design process in the global marketplace consistently.



Power Snap

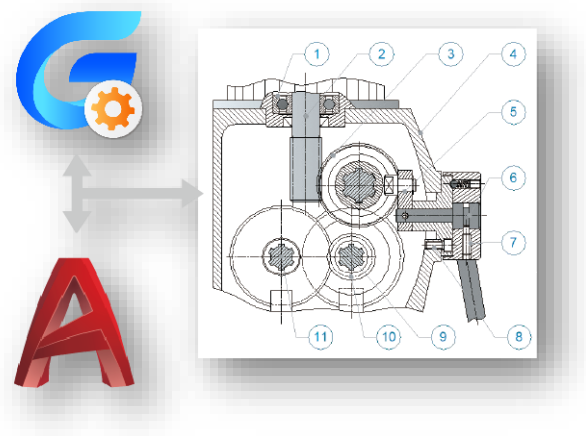
On the basis of Object Snap, which enable users to specify precise locations for objects, Power Snap allows users to save four configurations of Object Snap and Polar Snap to meet their needs for different uses, and users can switch between them in the middle of a command. Besides, users can also use Entity Filter to set filters, so that snap ignores objects they don't need while drawing, like dimension, hatch, etc.



Format Compatibility in Bi-direction

Seamlessly Data Displaying

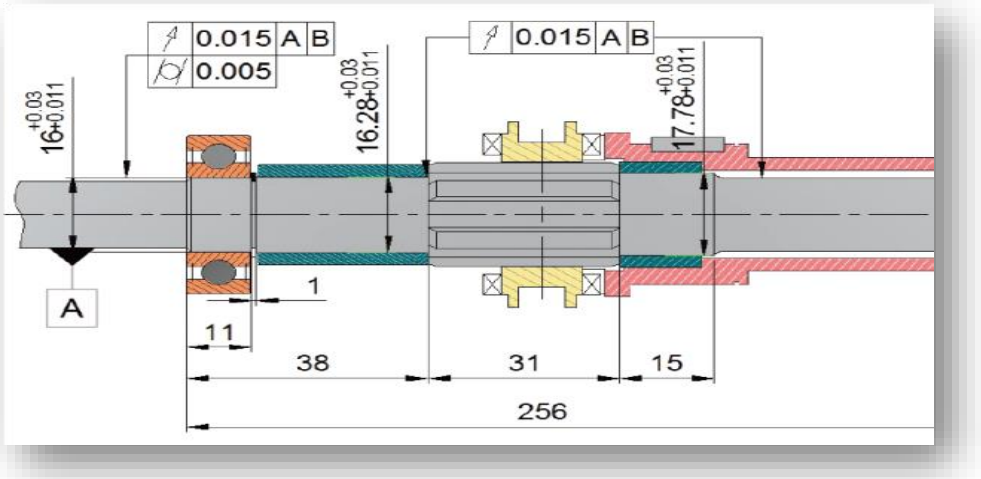
GstarCAD Mechanical 2026 could accurately read and display the complete underlying data of ACM drawings and vice versa. Seamlessly data display including title blocks, balloons, part list, BOM, surface texture, feature control frame, welding symbols and so on.



Easier Mechanical Documentation with Dimensioning Tools and Symbols Annotation

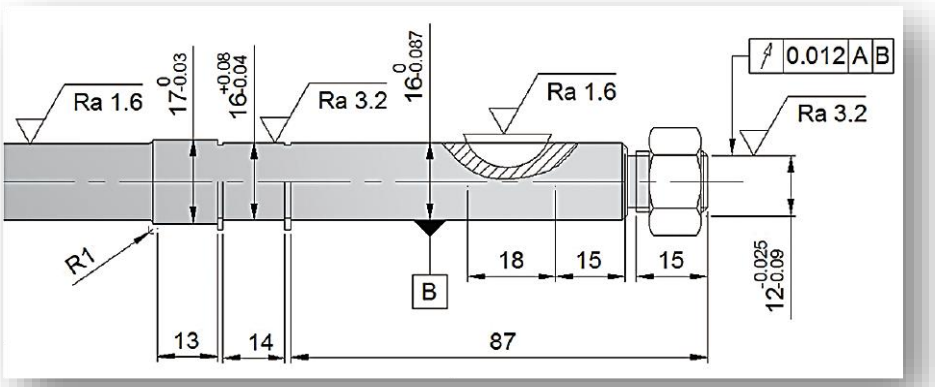
Dimensioning Tools

Power dimension tool makes dimensioning easier by setting up variables relevant to manufacturing, as well integrates tolerance and fit list information. Multiple dimension tool creates batch dimensions effortlessly that are appropriately spaced. Dimension edit tool quickly stretch, add or combine dimensions and inspect dimensions, as well help users edit dimensions accurately.



Symbols Annotation

Save time on annotation input by relying on more than 11 kinds of symbols like surface texture, feature control frame, welding symbol, datum identifier and target, taper & slope, edge symbol and so on. What's more, users could add any new created symbol to the symbol library. The symbols can be attached on target objects or dimensions and automatically adapt to drawings by moving or scaling.

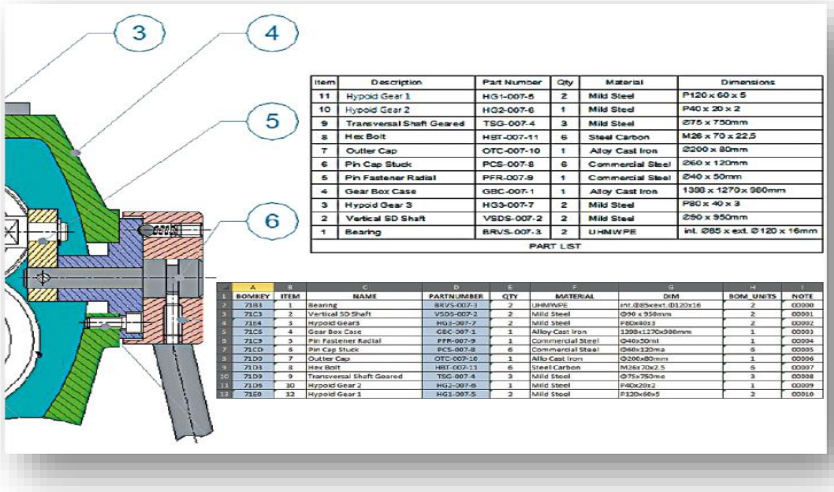


Accurate Data Management

BOM Data, Balloon and List

The BOM could display component parts features comprehensively. It coordinates all data information of component parts and control changes of global. GstarCAD Mechanical 2026 supports extraction BOM data from DWG files for better reuse, promoting more efficient and accurate exchange of design data and facilitate earlier collaboration between design and manufacturing workgroups.

The balloon and list functionalities are associated with mechanical parts and keep updated when detected parts information changing. Reduce cost of some mistaken information caused by recording, recognition and sorting.



Item	Description	Part Number	Qty	Material	Dimensions
11	Hypoid Gear 1	HG1-007-5	2	Mild Steel	P120 x 60 x 5
10	Hypoid Gear 2	HG2-007-6	1	Mild Steel	P40 x 20 x 2
9	Transversal Shaft Geared	TSG-007-4	3	Mild Steel	Ø75 x 750mm
8	Hex Bolt	HBT-007-11	6	Steel Carbon	M26 x 70 x 22,5
7	Outter Cap	OTC-007-10	1	Alloy Cast Iron	Ø200 x 80mm
6	Pin Cap Stuck	PCS-007-8	6	Commercial Steel	Ø60 x 120mm
5	Pin Fastener Radial	PFR-007-9	1	Commercial Steel	Ø40 x 50mm
4	Gear Box Case	GBC-007-1	1	Alloy Cast Iron	1300 x 1270 x 980mm
3	Hypoid Gear 3	HG3-007-7	2	Mild Steel	P80 x 40 x 3
2	Vertical SD Shaft	VSDS-007-2	2	Mild Steel	Ø90 x 950mm
1	Bearing	BRVS-007-3	2	UHMWPE	int. Ø85 x ext. Ø120 x 16mm

PART LIST

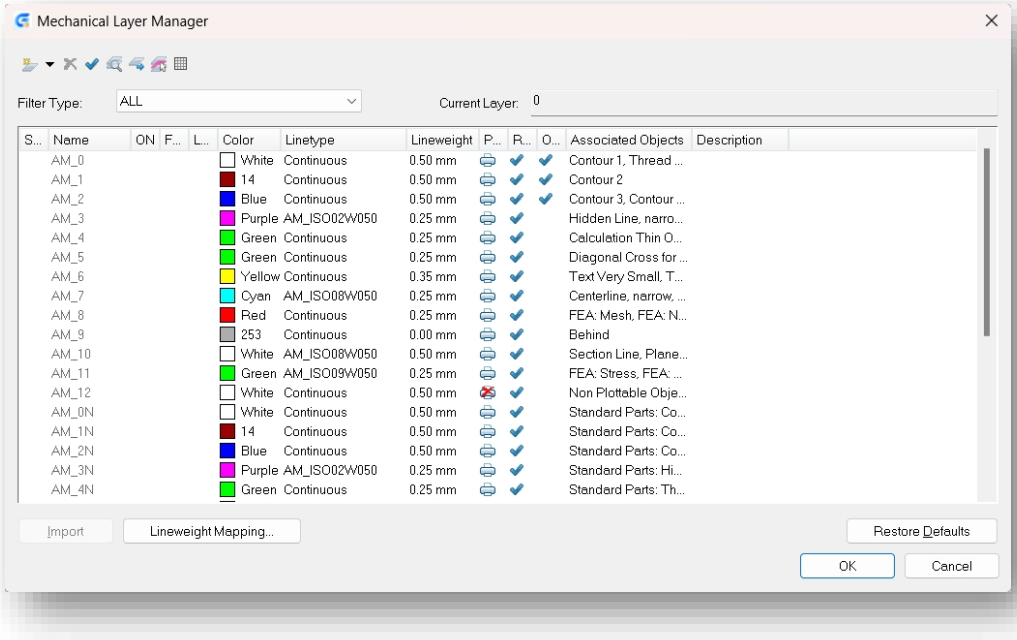
	A	B	C	D	E	F	G	H	I
1	BOMKEY	ITEM	NAME	PARTNUMBER	QTY	MATERIAL	DIM	BOM_UNITS	NOTE
2	7183	1	Bearing	BRVS-007-3	2	UHMWPE	int Ø85xext Ø120x16	2	00000
3	71C3	2	Vertical SD Shaft	VSDS-007-2	2	Mild Steel	Ø90 x 950mm	2	00001
4	7184	3	Hypoid Gear3	HG3-007-7	2	Mild Steel	P80x803	2	00002
5	71C5	4	Gear Box Case	GBC-007-1	1	Alloy Cast Iron	1300x1270x980mm	1	00003
6	71C9	5	Pin Fastener Radial	PFR-007-9	1	Commercial Steel	Ø40x50mm	1	00004
7	71C0	6	Pin Cap Stuck	PCS-007-8	6	Commercial Steel	Ø60x120mm	6	00005
8	71D9	7	Outter Cap	OTC-007-10	1	Allo Cast Iron	Ø200x80mm	1	00006
9	71D3	8	Hex Bolt	HBT-007-11	6	Steel Carbon	M26x70x2,5	6	00007
10	71D9	9	Transversal Shaft Geared	TSG-007-4	3	Mild Steel	Ø75x750mm	3	00008
11	71D5	10	Hypoid Gear 2	HG2-007-6	1	Mild Steel	P40x20x2	1	00009
12	71D8	12	Hypoid Gear 1	HG1-007-5	2	Mild Steel	P120x60x5	2	00010

Variety of Mechanical Tools and Practical Features

Mechanical Layer Manager

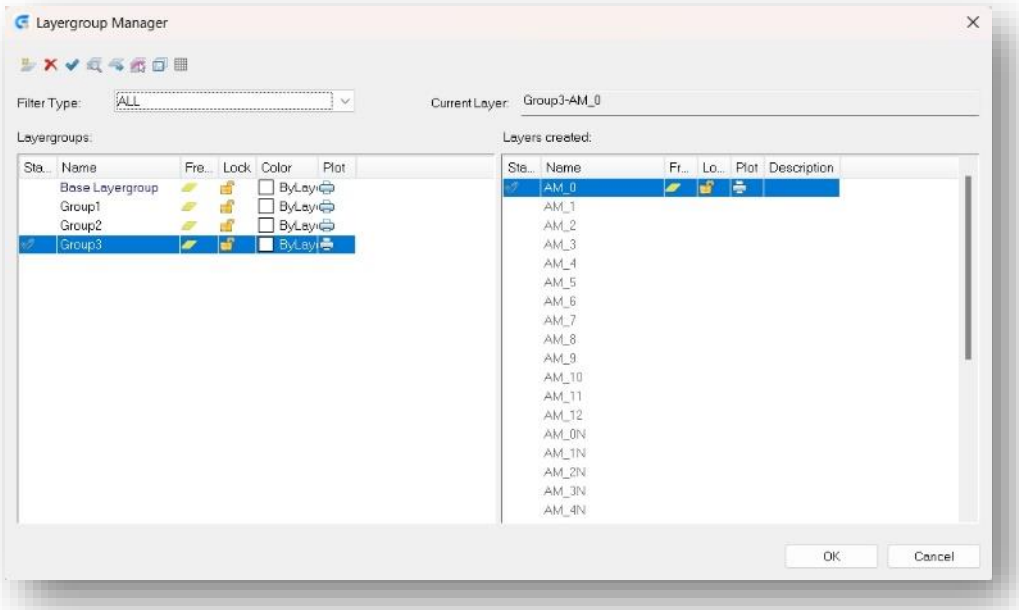
There're 31 pre-configured Mechanical Layers associated with different objects. Mechanical Layer Manager also

enable users to adjust properties of these layers like color, linetype, lineweight and even create customized new layers. When creating geometry/objects, their predefined layer will be activated automatically and they will be created on them, making drawing process much more convenient.

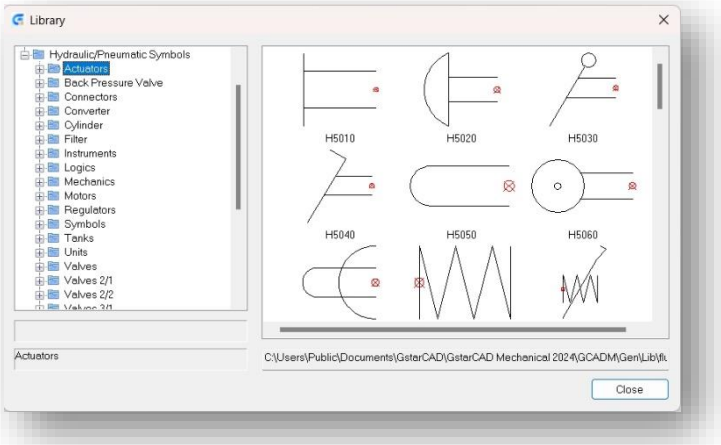


Layer Group Manager

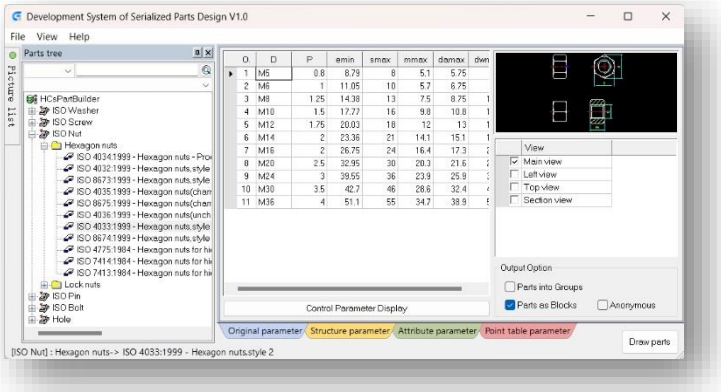
For drawings that are more complicated, GstarCAD Mechanical provides Layer Group Manager to create multiple layer groups, each layer group contains a set of Mechanical Layers. It also contains tools like Visibility Enhancements, Move Into, Highlight etc., which will help users organize and simplify design work.



Other Key Features Supported



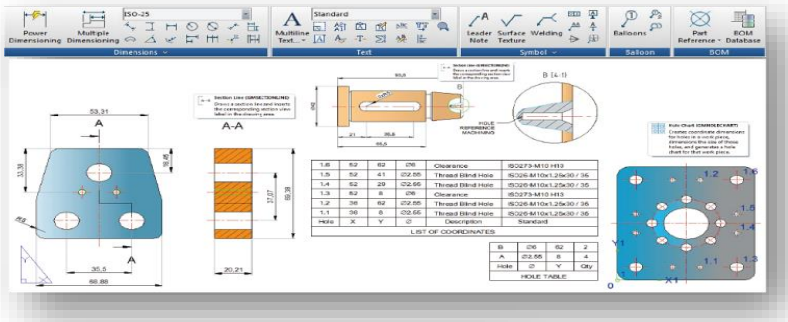
- ★ Serialization Part Design System
- ★ Library
- ★ Dimension Edit Tool
- ★ Leader Note Tool
- ★ Fillet Tool, Chamfer Tool
- ★ Wave Line, Smart Line and Symmetric Line
- ★ Calculate Area
- ★ Statistical Block
- ★ Scale X, Y, Break at One Point, One-quarter Mirror
- ★ Dynamic Extensions and Join Entities
- ★ Shaft Design, Spring Design
- ★ Super Card

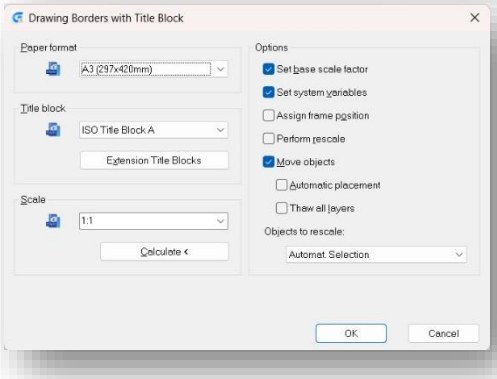


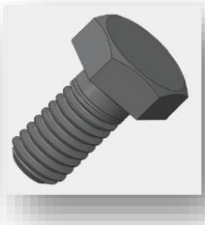
Automatic Generation of….

Achieve in Few Clicks

- ★ Detail Views
- ★ Scale View
- ★ Section Lines
- ★ Hatch
- ★ Title and Board
- ★ Associative Hole Charts
- ★ Fits List
- ★ Center Line and Construction Line
- ★ Rectangle Creation
- ★ Arrange Dimension







What's New

Rectangle Series Functionality Restructured

The rectangle series functionality has been restructured, enhancing performance and stability, optimizing interaction logic, achieving full compatibility with AutoCAD Mechanical in terms of data storage and interactive operations.

Moment of Inertia Function

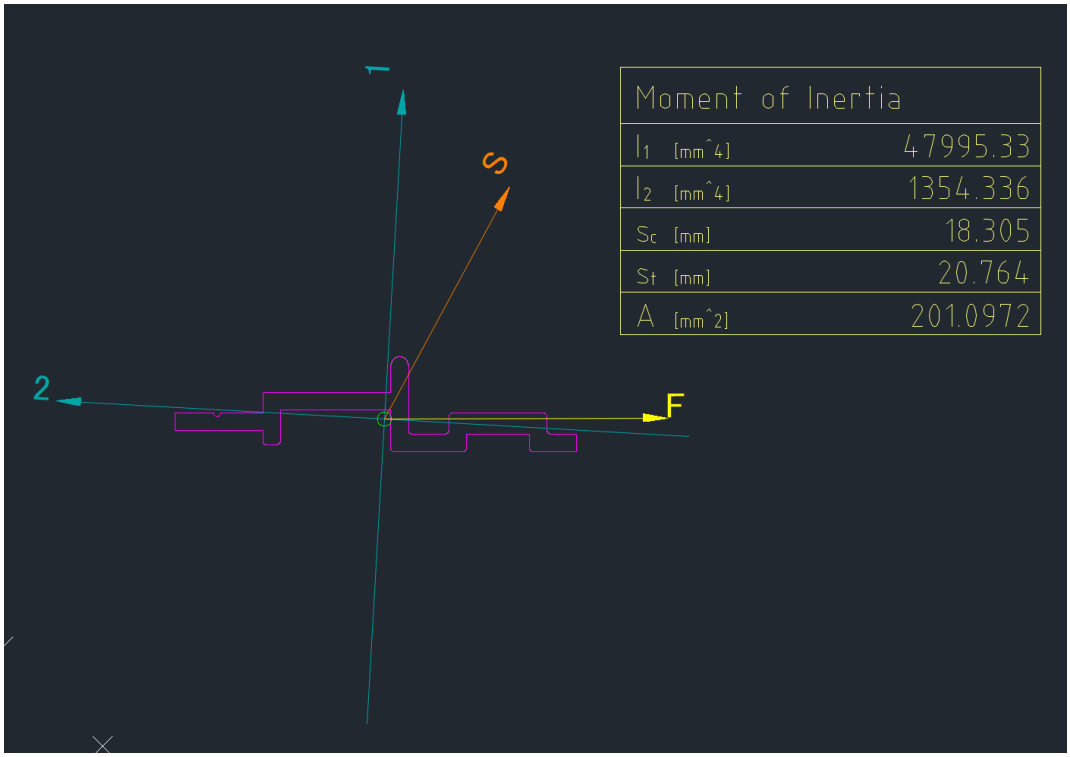
Added moment of inertia function, implementing professional moment of inertia calculation, supporting custom load angles, result output, and associative editing, with calculation processes and data formats fully compatible with AutoCAD Mechanical.

Beam Calculation Function

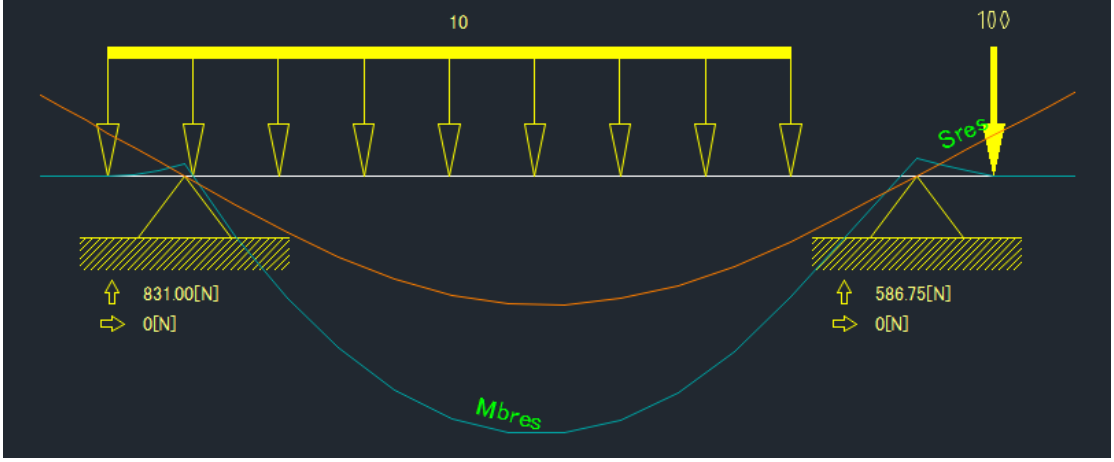
Added beam calculation function, supporting mixed calculations of multiple support types and load types, automatically generating bending moment line and deflection line, capable of outputting calculation tables containing professional data such as Safety Factor, Yield Point, and E-Modulus, with operation processes and data formats fully compatible with AutoCAD Mechanical.

Resolved Reported Issues

Addressed and fixed issues reported by users globally, ensuring improved performance and reliability.



Moment of Inertia	I1	[mm^4]	47995.33
Moment of Inertia	I2	[mm^4]	1354.336
Moment of Inertia	Ieff	[mm^4]	20627.80
Max. Border Dist.		[mm]	20.764
Safety Factor			10.509
Yield Point		[N/mm^2]	235.00
E-Modulus		[N/mm^2]	210000.00
Material			S235JR
Max.Deflection	S1	[mm]	0.009398401
Max.Bending Moment	Mb1	[Nm]	1.32
Max.Deflection	S2	[mm]	0.004463905
Max.Bending Moment	Mb2	[Nm]	22.18
Max.Stress	Res.	[N/mm^2]	22.361
Max.Deflection	Sres	[mm]	0.01040463
Max.Bending Moment	Mbres	[Nm]	22.21
Scale for Defl. Line			2397:1
Scale for Bending Mom. Line			2.2454:1



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