



Best Dell Laptop for AutoCAD : with Comparison and ranking [2024]

Description

Choosing the best Dell laptop for AutoCAD can be a daunting task, especially with the vast array of options available. Dell, a renowned brand in the computing world, offers a range of laptops that are well-suited for AutoCAD. This article will guide you through the best Dell laptops for AutoCAD, helping you make an informed decision.

Comparison and ranking

Rank	Model	Ideal For	Key Features	Pros	Cons
1	Dell Precision 3581 Mobile Workstation	Professional Work	High-performance Intel processors, dedicated graphics, large storage	High performance, suitable for professional work	More expensive, may not be as portable
2	Dell Precision 3571 Workstation	Professional Work	High-performance Intel processors, dedicated graphics, large storage	High performance, suitable for professional work	More expensive, may not be as portable
3	Dell Newest Inspiron 3511 Premium Laptop (2022 Model)	General Use	Latest Intel processors, ample storage, large display	High performance, large display	More expensive, may not be as portable
4	Dell G15 5520 15.6 Inch Gaming Laptop	Gaming	High-performance Intel processors, dedicated graphics, high refresh rate display	High performance, suitable for gaming	More expensive, gaming-oriented design

Rank	Model	Ideal For	Key Features	Pros	Cons
5	Dell 2022 Newest Inspiron 15 Laptop	General Use	Latest Intel processors, ample storage, large display	High performance, large display	May not be as portable
6	Dell Inspiron 16 5635 Laptop	General Use	Large display, latest processors, ample storage	Large display, high performance	May not be as portable
7	Dell Newest Inspiron 15 3511 Laptop	General Use	Latest Intel processors, ample storage, large display	High performance, large display	May not be as portable
8	Dell Inspiron Laptop, 15.6" HD Display, AMD Ryzen 5 3450U Processor	General Use	AMD Ryzen processor, ample storage, large display	Affordable, large display	HD display may not be as sharp
9	Dell Inspiron 3000 Business Laptop	Business Use	Latest processors, ample storage, large display	Suitable for business use, large display	May not be as powerful as high-end models
10	Dell Inspiron 15 3525 Lightweight Student Laptop	Student Use	Lightweight, latest processors, ample storage	Lightweight, suitable for students	May not be as powerful as high-end models
11	Dell Inspiron 14 5420 14 inch Student Laptop	Student Use	Compact, latest processors, ample storage	Compact, suitable for students	Smaller display

Please note that the ranking is subjective and depends on the specific needs of the user. For example, a student might prefer the Dell Inspiron 14 5420 due to its compact size, while a professional might prefer the Dell Precision 3581 due to its high performance. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

Top 11 Best Dell Laptop for AutoCAD

[Dell 2022 Newest Inspiron 15 Laptop](#)



The Dell 2022 Newest Inspiron 15 Laptop is a versatile machine designed for both work and play. It's powered by the 11th Gen Intel® Core™ i5-1135G7 processor, which ensures smooth performance even when running demanding software like AutoCAD. The laptop comes with Windows 11 Home, offering a user-friendly interface and a host of useful features.

The laptop features a 15.6" FHD 1920x1080 display, providing ample screen space for your design work. The display is non-touch, anti-glare, and has a narrow border, ensuring a comfortable viewing experience even during long work sessions.

The laptop comes with 12 GB of DDR4 RAM, ensuring smooth multitasking capabilities. It also offers a 512 GB M.2 PCIe NVMe SSD for storage, providing ample space for your files and ensuring fast boot times and quick access to your files.

Key Features

- **Processor:** 11th Gen Intel® Core™ i5-1135G7 (8 MB cache, 4 cores, 8 threads, up to 4.20 GHz Turbo)
- **Operating System:** Windows 11 Home, English
- **Graphics Card:** Intel® Iris® Xe Graphics

- **Display:** 15.6" FHD 1920x1080, 60Hz, WVA, Non-Touch, Anti-Glare, Narrow Border, LED-Backlit
- **Memory:** 12 GB, 1 x 8 GB + 1 x 4 GB, DDR4, 2666 MHz
- **Hard Drive:** 512 GB, M.2, PCIe NVMe, SSD
- **Color:** Carbon Black

Pros

- Powerful performance with the 11th Gen Intel Core i5 processor
- Ample RAM for smooth multitasking
- Large and fast SSD storage
- High-resolution display for a great viewing experience
- Lightweight and portable design

Cons

- The laptop does not have a backlit keyboard, which can make typing in low light conditions challenging.
- The laptop comes with a non-touch display, which may not be ideal for those who prefer touch-based navigation.
- The laptop's [integrated graphics](#) may not be sufficient for running highly demanding 3D applications.

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[Dell G15 5520 15.6 Inch Gaming Laptop](#)



The Dell G15 5520 is a gaming laptop that packs a punch when it comes to performance. It's powered by the 12th Gen Intel® Core™ i7-12700H processor, which ensures smooth performance even when running demanding software like AutoCAD. The laptop comes with Windows 11 Home, offering a user-friendly interface and a host of useful features.

The laptop features a 15.6" FHD 1920x1080 display with a refresh rate of 165Hz, providing a smooth and immersive gaming experience. The display is non-touch, anti-glare, and has a narrow border, ensuring a comfortable viewing experience even during long gaming sessions.

The laptop comes with 16 GB of DDR5 RAM, ensuring smooth multitasking capabilities. It also offers a 1 TB M.2 PCIe SSD for storage, providing ample space for your games and ensuring fast boot times and quick access to your files.

Key Features

- Processor: 12th Gen Intel® Core™ i7-12700H (24 MB cache, 14 cores, 20 threads, up to 4.70 GHz Turbo)
- Operating System: Windows 11 Home, English
- Graphics Card: NVIDIA® GeForce RTX™ 3060, 6 GB GDDR6
- Display: 15.6", FHD 1920x1080, 165Hz, WVA, Non-Touch, Anti-Glare, 300 nit, Narrow Border, LED-Backlit
- Memory: 16 GB, 2 x 8 GB, DDR5, 4800 MHz
- Hard Drive: 1 TB, M.2, PCIe, SSD
- Color: Dark Shadow Grey

Pros

- Powerful performance with the 12th Gen Intel Core i7 processor and NVIDIA GeForce RTX 3060 graphics
- Ample RAM for smooth multitasking
- Large and fast SSD storage
- High-resolution display with a high refresh rate for a smooth gaming experience
- Backlit keyboard for comfortable typing in low light conditions

Cons

- The laptop is quite heavy, which may not be ideal for those who need to carry their laptop around frequently.
- The laptop comes with a non-touch display, which may not be ideal for those who prefer touch-based navigation.
- The laptop's gaming-oriented design may not appeal to everyone.

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[Dell Inspiron 14 5420 14 inch Student Laptop](#)



The Dell Inspiron 14 5420 is a compact and lightweight laptop designed with students in mind. It typically comes with a 14-inch display, making it easy to carry around while still providing ample screen space for work and study.

The laptop is usually powered by the latest Intel Core or [AMD Ryzen](#) processors, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features a dedicated graphics card, which can handle graphic-intensive tasks with ease.

Key Features

- Processor: Typically latest Intel Core or AMD Ryzen processors
- Display: 14-inch, resolution varies
- Memory: Varies, often 8 GB or 16 GB
- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Often includes a dedicated graphics card

Pros

- Compact and lightweight, making it easy to carry around
- Powerful performance capabilities despite its small size
- Often includes a dedicated graphics card, which is beneficial for graphic-intensive tasks
- SSD storage for faster performance and reliability

Cons

- Smaller display size may not be ideal for those who prefer a larger screen
- Depending on the specific model and configuration, it may not be as powerful as larger, more high-end laptops
- Battery life may vary depending on usage and specific model

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Inspiron 14 5420. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

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[Dell Inspiron 15 3525 Lightweight Student Laptop](#)



The Dell Inspiron 15 3525 is a lightweight laptop designed with students in mind. It typically comes with a 15.6-inch display, providing ample screen space for work and study.

The laptop is usually powered by the latest Intel Core or AMD Ryzen processors, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features integrated graphics, which can handle everyday tasks with ease.

Key Features

- Processor: Typically latest Intel Core or AMD Ryzen processors
- Display: 15.6-inch, resolution varies
- Memory: Varies, often 8 GB or 16 GB
- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Often includes integrated graphics

Pros

- Lightweight and portable, making it easy to carry around
- Ample screen space for work and study

- SSD storage for faster performance and reliability
- Typically affordable, making it a good choice for students

Cons

- Depending on the specific model and configuration, it may not be as powerful as larger, more high-end laptops
- Integrated graphics may not be sufficient for graphic-intensive tasks
- Battery life may vary depending on usage and specific model

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Inspiron 15 3525. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

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[Dell Inspiron 16 5635 Laptop](#)



The Dell Inspiron 16 5635 is a laptop that offers a larger display for those who need more screen real estate. It typically comes with a 16-inch display, providing ample screen space for work and study.

The laptop is usually powered by the latest Intel Core or AMD Ryzen processors, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features a dedicated graphics card, which can handle graphic-intensive tasks with ease.

Key Features

- Processor: Typically latest Intel Core or AMD Ryzen processors
- Display: 16-inch, resolution varies
- Memory: Varies, often 8 GB or 16 GB

- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Often includes a dedicated graphics card

Pros

- Larger display for more screen real estate
- Powerful performance capabilities
- Often includes a dedicated graphics card, which is beneficial for graphic-intensive tasks
- SSD storage for faster performance and reliability

Cons

- Larger size may not be as portable as smaller laptops
- Depending on the specific model and configuration, it may not be as powerful as more high-end laptops
- Battery life may vary depending on usage and specific model

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Inspiron 16 5635. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

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[Dell Inspiron 3000 Business Laptop](#)



The Dell Inspiron 3000 Business Laptop is a versatile machine that's well-suited for both business and design work. It typically comes with a 15.6-inch display, providing ample screen space for work and presentations.

The laptop is usually powered by the latest Intel Core or AMD Ryzen processors, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features integrated graphics, which can handle everyday tasks with ease.

Key Features

- Processor: Typically latest Intel Core or AMD Ryzen processors
- Display: 15.6-inch, resolution varies
- Memory: Varies, often 8 GB or 16 GB
- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Often includes integrated graphics

Pros

- Versatile performance capabilities suitable for business and design work

- Ample screen space for work and presentations
- SSD storage for faster performance and reliability
- Typically affordable, making it a good choice for small businesses

Cons

- Depending on the specific model and configuration, it may not be as powerful as more high-end laptops
- Integrated graphics may not be sufficient for graphic-intensive tasks
- Battery life may vary depending on usage and specific model

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Inspiron 3000 Business Laptop. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

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[Dell Inspiron Laptop, 15.6" HD Display, AMD Ryzen 5 3450U Processor](#)



The Dell Inspiron Laptop with a 15.6-inch HD Display and AMD Ryzen 5 3450U Processor is a versatile machine that offers robust performance capabilities at an affordable price. It typically comes with a 15.6-inch HD display, providing ample screen space for work and study.

The laptop is powered by the AMD Ryzen 5 3450U processor, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features integrated AMD graphics, which can handle everyday tasks with ease.

Key Features

- Processor: AMD Ryzen 5 3450U
- Display: 15.6-inch HD
- Memory: Varies, often 8 GB or 16 GB
- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Integrated AMD graphics

Pros

- Affordable, making it a good choice for those on a budget
- Robust performance capabilities with the AMD Ryzen 5 3450U processor
- Ample screen space for work and study
- SSD storage for faster performance and reliability

Cons

- The HD display may not be as sharp as a Full HD or 4K display
- Depending on the specific model and configuration, it may not be as powerful as more high-end laptops
- Integrated graphics may not be sufficient for graphic-intensive tasks

BUY NOW

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Inspiron Laptop with a 15.6" HD Display and AMD Ryzen 5 3450U Processor. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

[Dell Newest Inspiron 15 3511 Laptop](#)



The Dell Newest Inspiron 15 3511 Laptop is a versatile machine that offers robust performance capabilities. It typically comes with a 15.6-inch display, providing ample screen space for work and study.

The laptop is usually powered by the latest Intel Core processors, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features integrated graphics, which can handle everyday tasks with ease.

Key Features

- Processor: Typically latest Intel Core processors
- Display: 15.6-inch, resolution varies
- Memory: Varies, often 8 GB or 16 GB
- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Often includes integrated graphics

Pros

- Robust performance capabilities with the latest Intel Core processors

- Ample screen space for work and study
- SSD storage for faster performance and reliability
- Typically affordable, making it a good choice for those on a budget

Cons

- Depending on the specific model and configuration, it may not be as powerful as more high-end laptops
- Integrated graphics may not be sufficient for graphic-intensive tasks
- Battery life may vary depending on usage and specific model

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Newest Inspiron 15 3511 Laptop. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

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[Dell Precision 3581 Mobile Workstation](#)



The Dell Precision 3581 is a powerful entry-level mobile workstation that is intelligently optimized and high-performing. It is great for 2D CAD, design, and creative applications. It comes with a starting price of \$1,890.49.

Key Features:

- Processor: Intel® Core™ i5-13600H, vPro® Enterprise (18MB Cache, 12 Cores, 16 Threads, 2.8-4.8 GHz Turbo, 45W)
- Operating System: Windows 11 Pro
- Graphics: Intel® Integrated Graphics
- Memory: 8 GB DDR5
- Storage: 256 GB SSD
- Display: 15.6-in. display Full HD (1920X1080) 60Hz
- Weight: Starting at 3.96 lbs

Pros:

- Powerful performance for an entry-level workstation.
- Suitable for 2D CAD, design, and creative applications.

- Comes with the latest Windows 11 Pro operating system.
- Lightweight, making it easy to carry around.

Cons:

- The price might be high for some users.
- The integrated graphics may not be suitable for heavy graphics tasks.
- The 8GB memory might be insufficient for heavy multitasking.

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Dell Precision 3571 Workstation



The Dell Precision 3571 Workstation is a high-performance machine designed for professionals who need to run demanding applications. It typically comes with a high-resolution display, providing ample screen space for work.

The workstation is usually powered by the latest Intel Xeon or Core processors, ensuring smooth performance for a variety of tasks, including running software like AutoCAD. It also often features a dedicated graphics card, which can handle graphic-intensive tasks with ease.

Key Features

- Processor: Typically latest Intel Xeon or Core processors
- Display: Varies, often high-resolution
- Memory: Varies, often starts at 16 GB
- Storage: Varies, often includes SSD storage for faster performance
- Graphics: Often includes a dedicated graphics card

Pros

- High-performance capabilities with the latest Intel processors
- Ample screen space for work
- SSD storage for faster performance and reliability
- Often includes a dedicated graphics card, which is beneficial for graphic-intensive tasks

Cons

- Depending on the specific model and configuration, it may be more expensive than other models
- Depending on the specific model and configuration, it may not be as portable as smaller laptops
- Battery life may vary depending on usage and specific model

Please note that the specific features, pros, and cons may vary depending on the exact model and configuration of the Dell Precision 3571 Workstation. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

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Precision 3571, 3581, 5470, 5570, 5770, 7670, 7770, and 7780 Workstations

The Precision series of workstations from Dell are designed specifically for high-performance tasks like running AutoCAD. They offer powerful processors, high-performance GPUs, and ample RAM, making them ideal for running AutoCAD. They also offer larger displays, providing ample screen space for your design work.

Choosing the Right Dell Laptop for AutoCAD

When choosing a Dell laptop for AutoCAD, consider the following factors:

- **Performance:** AutoCAD is a demanding software that requires a powerful processor and a high-performance GPU. Look for laptops with the latest Intel Core or AMD Ryzen processors and dedicated graphics cards.
- **RAM:** AutoCAD can be RAM-intensive, especially when working with complex 3D models. Aim for at least 8 GB of RAM, though 16 GB or more is recommended for smoother performance.
- **Display:** A larger display can make it easier to work on detailed designs. Look for laptops with at least a 15.6-inch display, though a larger display may be beneficial if you often work with complex designs.
- **Storage:** SSD storage is faster and more reliable than HDD storage, making it a better choice for running AutoCAD. Aim for at least 256 GB of SSD storage, though more may be beneficial if you often work with large files.
- **Portability:** If you often work on the go, consider a lightweight and compact laptop like the Dell Inspiron 14 5420 or the Dell Inspiron 15 3525.

Detailed Comparison of Dell Laptops for AutoCAD

To help you make an informed decision, let's delve into a more detailed comparison of the Dell laptops suitable for AutoCAD.

Laptop Model	Processor	RAM	Graphics Card	Display	Storage
Dell 2022 Newest Inspiron 15	Latest Intel Core	Varies	Integrated/Dedicated	15.6"	Varies
Dell G15 5520	Intel Core i7	16 GB	NVIDIA GeForce RTX 3050 Ti	15.6"	512 GB SSD
Dell Inspiron 14 5420	Intel Core i5/i7	8/16 GB	NVIDIA GeForce MX450	14"	512 GB SSD
Dell Inspiron 15 3525	AMD Ryzen 5	8 GB	Integrated AMD Graphics	15.6"	256 GB SSD
Dell Inspiron 16 5635	AMD Ryzen 7	16 GB	AMD Radeon RX	16"	512 GB SSD
Dell Inspiron 3000	Intel Core i5	8 GB	Integrated Intel Graphics	15.6"	256 GB SSD
Dell Inspiron 15.6" HD Display	AMD Ryzen 5 3450U	8 GB	Integrated AMD Graphics	15.6"	256 GB SSD
Dell Newest Inspiron 15 3511	Intel Core i5	8 GB	Integrated Intel Graphics	15.6"	256 GB SSD
Dell Newest Inspiron 3511 Premium	Intel Core i7	16 GB	NVIDIA GeForce MX450	15.6"	512 GB SSD
Precision 3571 Workstation	12th Gen Intel Core i7	8 GB	NVIDIA RTX A1000	15.6"	256 GB SSD
Precision 3581 Workstation	Varies	Varies	Varies	Varies	Varies
Precision 5470 Workstation	Varies	Varies	Varies	Varies	Varies
Precision 5570 Workstation	Varies	Varies	Varies	Varies	Varies

Laptop Model	Processor	RAM	Graphics Card	Display	Storage
Precision 5770 Workstation	Varies	Varies	Varies	Varies	Varies
Precision 7670 Workstation	Varies	Varies	Varies	Varies	Varies
Precision 7770 Workstation	Varies	Varies	Varies	Varies	Varies
Precision 7780 Workstation	Varies	Varies	Varies	Varies	Varies

Please note that the specifications for the Precision series workstations vary based on the specific model and configuration.

Verdict

- For professional work involving demanding applications, the [Dell Precision 3581 Mobile Workstation](#) and [Dell Precision 3571 Workstation](#) are the top choices due to their high-performance capabilities and dedicated graphics.
- For gaming, the [Dell G15 5520 15.6 Inch Gaming Laptop](#) stands out due to its high-performance processors, dedicated graphics, and high refresh rate display.
- For general use, the [Dell 2022 Newest Inspiron 15 Laptop](#), [Dell Newest Inspiron 15 3511 Laptop](#), and [Dell Newest Inspiron 3511 Premium Laptop](#) (2022 Model) offer a good balance of performance, storage, and display size.
- For students or those who prefer a more compact and lightweight laptop, the [Dell Inspiron 14 5420 14 inch Student Laptop](#) and [Dell Inspiron 15 3525 Lightweight Student Laptop](#) are good options.
- The [Dell Inspiron Laptop, 15.6" HD Display, AMD Ryzen 5 3450U Processor](#) offers an affordable option with a decent performance for general use.
- The [Dell Inspiron 3000 Business Laptop](#) is a good choice for business use due to its versatile performance capabilities and large display.

Remember, the best laptop for you depends on your specific needs, preferences, and budget. It's always a good idea to check the detailed specifications and customer reviews before making a purchase.

Frequently asked questions (FAQs) related to Dell laptops for AutoCAD:

Can Dell laptops run AutoCAD?

Yes, many Dell laptops can run AutoCAD. However, the performance will depend on the specific model and its hardware specifications, such as the processor, RAM, and graphics card.

Which Dell laptop is best for AutoCAD?

For professional work involving AutoCAD, the Dell Precision series, such as the Dell Precision 3581 Mobile Workstation and Dell Precision 3571 Workstation, are often recommended due to their high-performance capabilities and dedicated graphics.

Can Dell gaming laptops run AutoCAD?

Yes, Dell gaming laptops, such as the Dell G15 5520, can run AutoCAD. They often have high-performance processors and dedicated graphics that can handle the demands of AutoCAD.

Can Dell Inspiron laptops run AutoCAD?

Yes, many Dell Inspiron laptops can run AutoCAD. However, the performance will depend on the specific model and its hardware specifications. Models with more powerful processors and more RAM will typically perform better with AutoCAD.

What are the minimum system requirements for AutoCAD on a Dell laptop?

The minimum system requirements for AutoCAD include a 64-bit processor, 8 GB of RAM, and a display with 1920 x 1080 resolution. However, for optimal performance, it's recommended to have a more powerful processor, more RAM, and a dedicated graphics card.

Can Dell student laptops run AutoCAD?

Yes, many Dell student laptops can run AutoCAD. However, for more complex projects, a laptop with a more powerful processor, more RAM, and a dedicated graphics card may be required.