# International 511 combine specifications

International 511 Combine Specifications: A Detailed Overview **international 511 combine specifications** have long been a topic of interest for farmers and agricultural enthusiasts who want to understand the capabilities and features of this classic machine. The International 511 combine harvester, produced in the mid-20th century by International Harvester, is renowned for its robust build and reliable performance in the field. Whether you are a collector, a current user, or simply curious about vintage agricultural equipment, gaining a thorough understanding of the 511 combine's specifications can provide valuable insights into its operation and maintenance.

## Understanding the International 511 Combine

The International 511 combine was designed to offer efficiency and versatility to farmers, especially at a time when mechanization was transforming agricultural practices. It catered to medium-sized farms and was well-suited for harvesting a variety of crops including wheat, oats, barley, and rye. Its design reflects a balance between power, ease of use, and durability.

## Engine and Powertrain Details

One of the core aspects of the international 511 combine specifications is its engine. The 511 is typically equipped with a gasoline-powered International Harvester engine, often a 4-cylinder model, delivering approximately 60 horsepower. This power output allowed the machine to operate efficiently across different terrains and crop conditions. The combine’s powertrain is built around a belt and chain drive system, coupled with a manual transmission that offers several forward speeds and a reverse gear. This setup provides flexibility in adjusting the harvesting speed based on crop density and field conditions. The robust drivetrain was designed to minimize downtime and simplify repairs in remote farm locations.

## Threshing and Cleaning System

A crucial part of any combine is its threshing mechanism, which separates grain from the stalks and husks. The International 511 combines feature a cylinder and concave threshing system with adjustable settings to accommodate different crop types and moisture levels. This adjustability helps reduce grain loss and maintain a high-quality harvest. Following threshing, the cleaning system utilizes a combination of sieves and fans to separate chaff and debris from the grain. The fans are adjustable in speed, allowing operators to fine-tune the cleaning process depending on the crop conditions. This ensures that the grain collected is clean and ready for storage or further processing.

# Dimensions and Capacity

When considering international 511 combine specifications, physical dimensions and capacity are important factors that influence its usability and transportability.

## Size and Weight

The International 511 combine is relatively compact compared to modern combines, with a length of around 14 feet and a width of approximately 8 feet, depending on the header attachment used. Its height stands near 9 feet. This manageable size made the 511 suitable for farms with smaller fields or limited access routes. In terms of weight, the combine tips the scales at roughly 7,500 pounds. While heavy enough to provide traction and stability during operation, it remains light enough to be transported on standard farm trailers without excessive difficulty.

## Grain Tank and Header Options

The grain tank capacity of the International 511 is modest by today's standards, holding approximately 300 bushels of grain before needing to be unloaded. This size aligns with its intended use on medium-scale farms, where frequent unloading during harvesting was not uncommon but manageable. As for the header, the 511 offers various options including platform headers for small grains and corn headers designed to handle the stalkier crops. The headers generally range in size from 10 to 14 feet wide, providing flexibility to

match different farm sizes and crop types.

# Operational Features and Controls

The practical usability of the International 511 combine is enhanced by its straightforward and mechanic-friendly controls, making it popular among operators who prefer simplicity and reliability.

## Operator Station and Visibility

The operator’s station is designed for comfort and visibility. Positioned above the main body of the combine, the driver has a clear line of sight over the header and the harvested crop path. The controls are laid out in an intuitive manner, allowing for easy adjustments of speed, threshing settings, and cleaning fan speeds without complex electronic systems.

## Maintenance and Durability

Durability is a hallmark of the International 511 combine specifications. The machine was built using heavy-gauge steel and high-quality components that have stood the test of time. Routine maintenance tasks such as belt replacements, bearing lubrication, and engine tune-ups are straightforward, which is a significant advantage for farmers working in remote areas or those who prefer to handle repairs themselves. Additionally, parts availability, while more limited than for modern combines, is still supported by specialty suppliers and

enthusiast communities, making it feasible to keep the 511 running efficiently decades after its initial production.

# Performance in the Field

The international 511 combine specifications translate into reliable field performance that, even today, can impress those familiar with modern machinery.

## Harvesting Efficiency

Thanks to its well-designed threshing and cleaning systems, the 511 is capable of processing several acres per hour without excessive grain loss. While it may not match the speed of contemporary, computer-controlled combines, it offers a consistent and dependable harvest that meets the needs of its target user base.

## Adaptability Across Crops

One of the benefits of the International 511 combine is its adaptability. By adjusting the cylinder speed, concave clearance, and fan velocity, operators can tailor the machine to various crops. This flexibility makes it a valuable asset on farms where multiple grains are cultivated, providing cost savings and operational simplicity.

# Tips for Modern Users and

# Collectors

If you are considering using or restoring an International 511 combine, understanding its specifications is just the first step. Here are a few tips to get the most out of this classic machine:

1. **Regular Inspection:** Check belts, chains, and bearings frequently to prevent breakdowns during harvest.
2. **Proper Lubrication:** Follow lubrication schedules carefully to maintain smooth operation of the drivetrain and threshing components.
3. **Adjust Settings:** Don’t hesitate to experiment with cylinder speeds and fan adjustments to optimize threshing and cleaning for your specific crop.
4. **Community Support:** Engage with vintage farm equipment forums and clubs for advice, parts sourcing, and troubleshooting.
5. **Safety First:** Despite its age, always adhere to modern safety standards when operating the combine, including the use of guards and protective gear.

Exploring the international 511 combine specifications reveals a machine that was thoughtfully engineered to meet the demands of its era, offering a blend of power, efficiency, and simplicity. For those passionate about agricultural history or practical farming, the 511 remains an iconic piece of machinery worth understanding and preserving.

International 511 Combine Specifications: A Detailed Analysis of Performance and Features **international 511 combine specifications** have long been a subject of interest among agricultural professionals and machinery enthusiasts. The

International Harvester 511 Combine, known for its reliability and efficient grain harvesting capabilities, occupies a notable position in the history of combine harvesters. Understanding the precise specifications of this model provides valuable insights into its operational strengths, design philosophy, and suitability for various farming needs. This comprehensive review delves into the technical details, performance metrics, and comparative aspects that define the International 511 combine, helping stakeholders make informed decisions regarding its use and maintenance.

# Overview of the International 511 Combine

The International 511 combine was introduced as part of International Harvester's efforts to provide practical and robust harvesting equipment during the mid-20th century. Designed primarily for small to medium-sized farms, the 511 model offered a balance between power and maneuverability. Its engineering focused on durability and ease of maintenance, characteristics that have contributed to its sustained popularity among vintage machinery collectors and operators who prefer traditional mechanical systems over modern electronics.

## Engine and Powertrain Specifications

At the heart of the International 511 combine is a gasoline-powered engine, typically rated around 70 horsepower. This engine was designed to supply adequate power for threshing

and cleaning operations without excessive fuel consumption. The powertrain includes a belt-driven system coupled with a mechanical transmission, allowing variable speeds for ground travel and header operation. The simplicity of this setup is one of the model’s defining features, reducing downtime and simplifying repairs in the field.

## Threshing and Cleaning Capabilities

The threshing mechanism of the International 511 combine incorporates a cylinder with adjustable speed settings, enabling operators to fine-tune the threshing action based on crop type and moisture content. The cylinder width generally measures around 28 inches, which, combined with a concave area designed for efficient grain separation, contributes to its effective threshing performance. The cleaning system includes a two-stage fan and sieve arrangement, which helps to minimize grain loss and maintain grain quality during processing.

# Key International 511 Combine Specifications

A closer look at the core specifications reveals the elements that make the International 511 a reliable piece of harvesting equipment:

1. **Engine Type:** 4-cylinder gasoline engine
2. **Horsepower:** Approximately 70 HP
3. **Threshing Cylinder Width:** 28 inches

4. **Threshing Cylinder Speed:** Adjustable, typically ranging from 400 to 1200 RPM
5. **Cleaning System:** Two-stage cleaning with adjustable sieves and fan speed
6. **Grain Tank Capacity:** Roughly 4 bushels
7. **Header Width:** Around 9 feet
8. **Ground Speed:** Variable, up to 3.5 mph
9. **Weight:** Approximately 5,400 pounds

These technical details reflect the machine's design priorities: a compact frame capable of handling moderate workloads while remaining accessible to operators with varying levels of mechanical expertise.

## Comparison with Contemporary Models

When compared to other combines from the same era, such as the Massey Ferguson 88 or John Deere 55, the International 511 holds its ground due to its solid build and straightforward operation. While some contemporaries offered larger grain tanks or diesel engines, the 511's gasoline engine and manageable size made it particularly well-suited for farms where versatility and ease of transport were critical. One notable advantage of the International 511 is its maintenance-friendly layout. Components like the cylinder, concaves, and sieves are designed for quick access, reducing the time needed for routine cleaning and adjustments. This contrasts with more complex models that, while offering higher capacity, could present operational challenges in less mechanized environments.

# Operational Features and Usability

The International 511 combine emphasizes operator control and adaptability, with several features aimed at optimizing harvesting performance under varying conditions.

## Adjustability and Control Systems

Operators can adjust the cylinder speed and concave clearance to match different crop types, such as wheat, oats, or barley. This level of control is critical for minimizing grain damage and maximizing throughput. The cleaning system’s fan speed and sieve openings are also adjustable, allowing for fine-tuning based on crop moisture and chaff volume.

## Ergonomics and Operator Comfort

While the 511 combine does not boast the sophisticated cabins or suspension systems seen in modern harvesters, its design incorporates practical considerations for operator comfort. The seating position provides a clear view of the header and auger, and controls are laid out logically to reduce operator fatigue during long harvesting days. The machine’s relatively compact size also contributes to easier maneuverability in tighter field conditions.

# Maintenance and Longevity

One of the enduring appeals of the International 511 combine lies in its durability and straightforward maintenance requirements. The mechanical nature of its systems means that specialized electronic diagnostic tools are unnecessary, making it an excellent choice for operators in rural or resource-limited settings.

## Common Maintenance Tasks

Routine maintenance includes:

1. Regular lubrication of moving parts such as bearings and chains
2. Inspection and replacement of belts
3. Cleaning of the threshing cylinder, concaves, and sieves to prevent clogging
4. Engine tune-ups, including spark plug replacement and carburetor adjustments
5. Checking and maintaining hydraulic fluid levels where applicable

The availability of replacement parts, either through dealers specializing in vintage equipment or aftermarket suppliers, ensures that the International 511 combine can remain operational for many years beyond its original production run.

## Challenges and Limitations

While the International 511 offers many advantages, it is

important to acknowledge its limitations. The grain tank capacity, for instance, is relatively small by modern standards, necessitating frequent unloading during peak harvest times. Additionally, the gasoline engine, though reliable, is less fuel-efficient compared to contemporary diesel alternatives. Operators should also consider that the manual adjustments require a certain level of skill and experience to optimize performance fully. For farms with large acreages or those requiring high throughput, newer models with greater capacity and automation might be more appropriate.

# International 511 Combine in Today’s Agricultural Context

Despite the advances in combine technology, the International 511 remains a relevant machine for specific agricultural applications. Its simple operation and ease of repair make it a viable option for small-scale farmers or those operating in regions with limited access to advanced machinery servicing. Collectively, the international 511 combine specifications illustrate a machine built for reliability and practical use rather than cutting-edge innovation. Its continued use among farming communities and vintage machinery enthusiasts underscores the lasting value of well-engineered agricultural equipment. In summary, the International 511 combine is a testament to mid-century agricultural machinery design, combining functional performance with mechanical simplicity. Understanding its specifications and operational characteristics provides valuable perspective on how farming equipment has evolved and highlights the enduring utility of

classic combines in certain farming contexts.

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The structure of PDF books supports this rhythm well. Pages remain familiar each time they are opened. Headings guide attention, and visual elements help anchor ideas. Over time, readers develop an intuitive sense of where information is located.

Annotation tools turn reading into dialogue. Notes capture reactions, disagreements, and insights that emerge during reflection. These personal markers make returning to the text more meaningful, as the reader encounters their own evolving

perspective.

Search functions simplify complex exploration. Instead of rereading entire sections, readers can locate specific ideas efficiently. This practical advantage makes the book useful beyond initial reading, especially for reference and revision.

Trustworthy sources matter. Platforms that prioritize legality and accuracy create confidence in the material. Readers can focus fully on understanding without questioning reliability or safety.

Access without excessive cost opens doors. When financial pressure is removed, exploration becomes more adventurous. Readers feel free to explore unfamiliar topics, knowing that curiosity does not come with unnecessary risk.

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Professionals approach **International 511 Combine Specifications** with a different lens. They seek relevance, clarity, and applicability. Being able to return to specific sections when challenges arise turns reading into a practical resource rather than a one-time activity.

Personal growth often happens quietly. Reading becomes a companion rather than an obligation. Ideas settle gradually, influencing thinking and decision-making over time.

Accessibility features ensure broader participation. Adjustable displays and supportive reading tools help accommodate different needs, allowing more readers to engage comfortably.

Organization enhances continuity. Files remain available, categorized, and easy to retrieve. Progress is never lost, even when reading is paused for weeks or months.

The global nature of access adds another layer. Readers across different cultures encounter the same material, often interpreting it through unique experiences. This shared access strengthens collective understanding.

Revisiting familiar passages often reveals new insights. What once felt complex may later feel clear. Growth becomes visible through repeated engagement rather than rushed completion.

With **International 511 Combine Specifications** readily available, learning becomes less about finishing and more about returning. The book remains present, patient, and ready whenever attention shifts back.

This steady availability encourages a calmer relationship with knowledge. There is no pressure to absorb everything at once. Understanding unfolds naturally, shaped by time and reflection.

In this way, reading becomes less transactional and more personal. The value lies not only in information gained, but in the habit of thoughtful engagement that develops along the

way.

# Questions & Answers About international 511 combine specifications

| No | Question | Answer |
|---|---|---|
| 1 | What are the engine specifications of the International 511 combine? | The International 511 combine is equipped with a 4-cylinder diesel engine, typically producing around 85 horsepower, designed for efficient grain harvesting. |
| 2 | What is the grain tank capacity of the International 511 combine? | The International 511 combine features a grain tank capacity of approximately 200 bushels, allowing for extended harvesting without frequent unloading. |
| 3 | What type of threshing system does the International 511 combine use? | The International 511 combine utilizes a conventional cylinder and concave threshing system, which effectively separates grain from the crop material. |
| 4 | What are the dimensions and weight of the International 511 combine? | The International 511 combine measures roughly 22 feet in length, 9 feet in width, and weighs around 12,000 pounds, making it manageable for medium-sized farming operations. |

| | | |
|---|---|---|
| 5 | What is the header width compatibility for the International 511 combine? | The International 511 combine is compatible with headers ranging from 12 to 16 feet in width, providing flexibility for different crop types and field conditions. |

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Clear usage statements included within PDFs help inform users about permitted actions, reducing confusion and unintentional infringement.

**DRM and copy protection considerations**

Digital Rights Management (DRM) technologies can be applied to PDFs to control access and usage. DRM may restrict copying, printing, or sharing. While DRM provides strong protection, it can also limit compatibility and user experience.

Deciding whether to use DRM for International 511 Combine Specifications depends on content value, audience expectations, and distribution goals. In some cases, lighter protection combined with clear licensing is more effective.

**Legal compliance across regions**
Copyright and data protection laws vary by country. What is legal in one region may not be permitted in another. When distributing International 511 Combine Specifications internationally, understanding regional regulations helps ensure compliance and reduces legal risk.

For organizations, consulting legal guidance ensures that PDF distribution practices align with applicable laws and standards across jurisdictions.

**Privacy and data protection laws**
PDFs containing personal data must comply with privacy regulations such as data protection and confidentiality requirements. Collecting, storing, or sharing personal information within International 511 Combine Specifications should follow legal guidelines to protect individual privacy.

Limiting data collection, anonymizing information, and securing access are key practices for maintaining compliance and trust.

**Handling user-generated content in PDFs**
Some PDFs include user-generated content such as comments, forms, or submissions. Managing this data responsibly is essential. Clear policies regarding storage, access, and retention protect both users and content owners when handling International 511 Combine Specifications.

Removing unnecessary personal data before archiving or sharing PDFs reduces risk and supports compliance with

privacy standards.

**Document retention and deletion policies**
Legal and organizational requirements may dictate how long documents should be retained. Establishing retention policies ensures that PDFs are stored appropriately and deleted when no longer needed. Applying these practices to International 511 Combine Specifications supports compliance and reduces data exposure.

Secure deletion methods ensure that sensitive documents cannot be recovered after disposal, further protecting information security.

**Educating users about legal and security responsibilities**
Users often play a role in maintaining document security and legal compliance. Providing guidance on proper usage, sharing, and storage of International 511 Combine Specifications helps reduce misuse and accidental violations.

Clear instructions and usage notices included within PDFs support responsible behavior and reinforce expectations for readers and recipients.

**Risk management and proactive protection**
Proactively addressing security and legal risks reduces potential issues before they arise. Regular reviews of security settings, licensing terms, and distribution methods help ensure that International 511 Combine Specifications remains compliant and protected.

Staying informed about legal updates and security best practices allows content creators and distributors to adapt to changing requirements effectively.

**Final thoughts on PDF security and legal use**

Security, copyright, and legal considerations are essential aspects of responsible PDF usage. By understanding protection features, respecting intellectual property, and complying with legal standards, users can safely create and distribute International 511 Combine Specifications. Thoughtful practices ensure that PDFs remain valuable, trustworthy, and legally sound resources in an increasingly digital world.