

INGERSOLL RAND DD24 VIBRATORY DRUM ROLLER SPECS

Ingersoll Rand DD24 Vibratory Drum Roller Specs The Ingersoll Rand DD24 vibratory drum roller is a versatile and powerful piece of construction equipment designed for compacting soil, asphalt, and other materials in various construction and roadwork projects. Known for its durability, efficient performance, and advanced engineering, the DD24 model has become a preferred choice among contractors and operators worldwide. Understanding the detailed specifications of the DD24 vibratory drum roller is essential for selecting the right equipment for specific projects, ensuring optimal performance, and maintaining safety standards. This comprehensive guide delves into the technical specifications, features, and operational parameters of the Ingersoll Rand DD24 vibratory drum roller.

Overview of the Ingersoll Rand DD24 Vibratory Drum Roller

The DD24 model is part of Ingersoll Rand's lineup of vibratory rollers designed to deliver excellent compaction results across a range of applications. It combines robust construction with advanced vibratory technology, offering high productivity and ease of operation. The DD24 is particularly suitable for projects requiring high compaction force, maneuverability, and reliability.

Engine and Power Specifications

Engine Details

The engine is the heart of any vibratory roller, providing the power necessary for effective compaction and operation. The DD24 is equipped with a reliable engine that meets modern emission standards and provides consistent performance.

1. **Engine Type:** Diesel-powered, four-stroke, vertical shaft engine
2. **Engine Model:** Typically fitted with a Kubota or similar engine model (specifics may vary by production year and region)
3. **Engine Power:** Approximately 24 horsepower (HP)
4. **Displacement:** Around 1.4 liters
5. **Cooling System:** Water-cooled
6. **Fuel Capacity:** Approximately 15 liters (4 U.S. gallons)

Performance Characteristics

The engine provides the necessary torque and power to drive the vibratory system effectively, ensuring deep and uniform compaction. - Rated RPM: Typically around 3000 RPM, optimized for

vibratory performance - Fuel Efficiency: Designed to operate efficiently during long working hours, reducing operational costs

Vibratory System Specifications

Vibration Frequency and Amplitude

The core feature of the DD24 is its vibratory system, which enhances the compaction process.

1. **Vibration Frequency:** Usually around 2,500 to 3,000 vibrations per minute (VPM)
2. **Amplitude:** Moderate to high amplitude, typically around 0.5 to 1.0 mm, depending on the model variant

Vibratory Drum Details

The DD24 features dual vibratory drums designed for stability and uniform compaction.

1. **Drum Diameter:** Approximately 24 inches (610 mm)
2. **Drum Width:** About 24 inches (610 mm)
3. **Type of Drums:** Smooth or padfoot drums, depending on application needs

Vibration Modes

The roller offers multiple modes for versatile operation.

1. Vibratory mode for maximum compaction
2. Static mode for transport and light work

Operational and Structural Specifications

Dimensions and Weight

Understanding the size and weight of the DD24 is vital for transportation, maneuverability, and stability.

1. **Length:** Approximately 2.4 meters (94 inches)
2. **Width:** Around 1.2 meters (47 inches)
3. **Height:** About 1.5 meters (59 inches)
4. **Operating Weight:** Typically between 2,000 to 2,300 kg (4,400 to 5,070 lbs)

Travel Speed and Gradeability

The DD24 is designed for efficient movement across construction sites.

1. **Travel Speed:** Up to 6 km/h (3.7 mph)
2. **Gradeability:** Capable of ascending slopes up to 20 degrees, depending on load and soil

conditions

Steering and Maneuverability

The roller features a articulated steering system for tight turns and easy navigation in confined spaces. - Turning Radius: Approximately 3 meters (9.8 feet) - Steering System: Hydraulic articulation with lockout options

Hydraulic and Control System Specifications

Hydraulic System

The hydraulic system powers vibration and steering functions, designed for durability and responsiveness.

1. **Hydraulic Pump Capacity:** Around 15 liters per minute (4 GPM)
2. **Hydraulic Pressure:** Approximately 200 bar (2900 psi)

Control Console Features

User-friendly control panels facilitate operation and monitoring.

1. Vibration control toggle switches
2. Throttle and engine controls
3. Emergency stop button
4. Vibration frequency adjustment

Additional Features and Accessories

Safety and Comfort

Operators benefit from ergonomic cabins or operator platforms, safety features, and visibility enhancements.

1. Seat belts and ROPS (Roll-Over Protective Structures)
2. Adjustable steering and control levers
3. Backup alarms and lights

Optional Attachments and Accessories

Enhance versatility with accessories like:

1. Padfoot drum attachments for cohesive soil
2. Water spray systems for dust control
3. Lighting kits for night operation

Maintenance and Durability Specifications

Service Intervals

Regular maintenance ensures longevity and peak performance.

1. Engine oil change: Every 100 hours or as specified
2. Vibration system inspection: Every 250 hours
3. Hydraulic fluid check: Monthly or after significant use

Materials and Build Quality

Constructed with high-strength steel and corrosion-resistant components, the DD24 is designed for harsh construction environments.

Summary of Key Specs at a Glance

1. **Engine Power:** 24 HP
2. **Vibration Frequency:** 2,500–3,000 VPM
3. **Drum Diameter & Width:** 24 inches
4. **Operating Weight:** 2,000–2,300 kg
5. **Travel Speed:** Up to 6 km/h
6. **Gradeability:** Up to 20 degrees

Conclusion

The Ingersoll Rand DD24 vibratory drum roller is a robust, reliable, and highly capable machine designed to meet the demanding needs of modern construction and roadwork projects. Its detailed specifications reflect a balance between power, precision, and durability, making it suitable for various soil and asphalt compaction tasks. Whether it's the high-frequency vibratory system, the manageable size, or the advanced control features, the DD24 stands out as a valuable asset for contractors aiming for efficient and high-quality results. Proper understanding and utilization of its specifications ensure maximum productivity, safety, and longevity on the job site.

Ingersoll Rand DD24 Vibratory Drum Roller Specs: An In-Depth Guide

When it comes to heavy-duty compaction equipment, the Ingersoll Rand DD24 vibratory drum roller specs stand out as a benchmark of engineering excellence and operational efficiency. Designed for a broad spectrum of job sites—ranging from road construction to foundation work—the DD24 is engineered to deliver optimal compaction results with precision and reliability. In this comprehensive guide, we'll delve into the key specifications, features, and performance metrics that define the DD24 vibratory drum roller, helping contractors, operators, and equipment managers understand what makes this machine a valuable asset on any construction site.

Overview of the Ingersoll Rand DD24 Vibratory Drum Roller

The Ingersoll Rand DD24 vibratory drum roller is a compact yet powerful machine, optimized for versatility and high productivity. Its design combines robust components with advanced technology, ensuring consistent performance across various soil types and paving projects. The DD24's specifications highlight its operational capacity, weight, drum dimensions, and engine power—crucial factors that influence its effectiveness and suitability for different applications.

Key Specifications of the Ingersoll Rand DD24 Vibratory Drum Roller

1. Engine and Powertrain

Engine Type:

The DD24 is equipped with a high-performance, diesel-powered engine designed for durability and fuel efficiency. Typically, it features a Tier 4 Final compliant engine, aligning with modern emission standards.

Horsepower (HP):

1. Usually around 74 HP (55 kW), providing ample power for effective compaction and maneuverability.
2. The engine's horsepower directly impacts the vibratory force and the machine's ability to handle tough materials.

Engine Displacement:

1. Approximately 4.4 liters (268 cubic inches), ensuring sufficient torque for heavy-duty operations.

Fuel Capacity:

1. Typically around 25-30 gallons (95-114 liters), enabling extended operation without frequent refueling.

1. Drums and Vibratory System

Drum Dimensions:

1. Width: Generally, the drum width is approximately 72 inches (1.83 meters), allowing for efficient coverage and maneuverability.
2. Diameter: About 36 inches (0.91 meters), which influences the force distribution and vibration transmission.

Number of Drums:

1. Single drum configuration, suitable for a variety of surface types and compaction requirements.

Vibratory Force:

1. Usually ranges between 25,000 to 30,000 pounds (11,340 to 13,608 kg) of centrifugal force,

providing the necessary impact to achieve desired compaction levels.

Vibration Frequency:

1. Typically around 2,000 to 2,300 vibrations per minute (VPM), allowing for effective soil and asphalt compaction without causing surface damage.

Vibration Modes:

1. The DD24 often features dual vibratory modes—oscillation and vibration—giving operators flexibility to optimize for different materials.

1. Operating Weight and Dimensions

Operating Weight:

1. Usually between 4,000 and 4,500 pounds (1,814 to 2,041 kg), balancing stability and maneuverability.

Machine Dimensions:

1. Length: Approximately 12 feet (3.66 meters).
2. Width: Around 6.8 feet (2.07 meters).
3. Height: About 8 feet (2.44 meters).
4. These dimensions facilitate access to tight job sites while providing sufficient stability.

1. Travel Speed and Maneuverability

Maximum Travel Speed:

1. Usually up to 5-6 miles per hour (8-9.7 km/h), enabling efficient coverage of large areas.

Turning Radius:

1. Compact design allows for a tight turning radius, often under 12 feet (3.66 meters), enhancing operational agility.

1. Hydraulic and Control Systems

Hydraulic System:

1. Designed for smooth operation of vibratory systems and drum controls, with flow rates around 15-20 gallons per minute (57-76 liters per minute).

Control Interface:

1. Ergonomically designed control panel for ease of operation, including vibration mode selection, amplitude adjustment, and travel controls.

Performance Features and Benefits

Compact and Versatile Design

The DD24's dimensions and weight make it suitable for confined spaces and delicate work zones, such as urban roads or landscaping projects. Its versatility allows it to handle various soil types—from cohesive clays to granular materials—making it a preferred choice for diverse construction needs.

Powerful Vibratory Force

The centrifugal force generated by the DD24's vibratory system ensures deep, uniform compaction. This reduces the number of passes required to meet project specifications, leading to time savings and increased productivity.

Advanced Vibration Modes

Operators can switch between oscillation and vibration modes depending on the material and desired compaction effect. Oscillation modes are gentle and effective on asphalt, reducing surface stress, while vibration modes are suitable for dense soils.

Operator Comfort and Control

Modern DD24 models feature ergonomic controls, adjustable seat options, and clear instrumentation, reducing operator fatigue and enhancing precision during long shifts.

Applications and Suitable Environments

The Ingersoll Rand DD24 vibratory drum roller specs demonstrate its suitability for a wide range of applications:

1. Road construction and maintenance
2. Parking lot and pavement projects
3. Foundations and backfill compaction
4. Landscaping and site prep
5. Utility and trench work

Its compact size makes it especially valuable in urban environments where space is limited, and precise control is essential.

Maintenance and Durability

Ingersoll Rand emphasizes durability and ease of maintenance in the DD24's design. Key aspects include:

1. Easy Access to Engine and Components: Simplifies routine inspections and repairs.
2. Robust Frame and Drums: Designed to withstand harsh conditions and extended use.
3. Hydraulic System Efficiency: Reduces downtime and hydraulic fluid consumption.
4. Service Intervals: Typically recommended every 250-300 hours for routine checks and filter replacements.

Final Thoughts: Is the Ingersoll Rand DD24 the Right Choice?

Understanding the Ingersoll Rand DD24 vibratory drum roller specs enables contractors and operators to assess whether this machine aligns with their project requirements. Its powerful vibratory force, manageable size, and versatile features make it a reliable asset for various compaction tasks. Whether working on tight urban sites or large-scale projects, the DD24's specifications promise performance, durability, and efficiency.

As always, selecting the right equipment depends on balancing project scope, terrain, and operational needs. For those seeking a compact, powerful, and dependable vibratory drum roller, the DD24 stands out as a top-tier option backed by Ingersoll Rand's reputation for innovation and quality.

In summary, the Ingersoll Rand DD24 vibratory drum roller specs encompass a well-rounded package of engine power, drum dimensions, vibratory force, and operational features. These specifications translate into a machine capable of delivering high-quality compaction with ease, making it a smart investment for construction professionals aiming for efficiency and precision.

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Questions & Answers About ingersoll rand dd24 vibratory drum roller specs

No	Question	Answer
1	What are the key specifications of the Ingersoll Rand DD24 vibratory drum roller?	The Ingersoll Rand DD24 features a 24-inch drum width, approximately 18-20 HP engine power, and a centrifugal force of around 3,000 lbs, suitable for compacting asphalt and soil in various construction projects.
2	What is the weight of the Ingersoll Rand DD24 vibratory drum roller?	The DD24 typically weighs approximately 2,400 to 2,600 lbs, providing stability and effective compaction for small to medium-sized projects.
3	What type of engine does the DD24 vibratory drum roller use?	The DD24 is powered by a Honda or Kohler gasoline engine, offering reliable performance and ease of maintenance.
4	What are the vibratory features of the Ingersoll Rand DD24?	The DD24 includes dual amplitude and frequency settings, allowing operators to adjust compaction force based on material type and application requirements.
5	Does the Ingersoll Rand DD24 have a reversible drum?	Yes, the DD24 features a reversible drum, enabling easier maneuverability and more efficient coverage during compaction tasks.
6	What are the dimensions and operational height of the DD24 vibratory roller?	The roller measures approximately 50 inches in length, 24 inches in width, and has an operational height of around 40 inches, making it suitable for tight spaces and detailed work.
7	Is the Ingersoll Rand DD24 suitable for asphalt and soil compaction?	Yes, the DD24 is versatile and designed to effectively compact both asphalt pavements and various soil types, making it popular in roadworks and landscaping projects.
8	What maintenance features are available on the DD24 vibratory drum roller?	The DD24 includes easy-access engine components, vibration system controls, and a user-friendly maintenance schedule to ensure longevity and optimal performance.
9	Are there any recent updates or improvements to the Ingersoll Rand DD24 specs?	Recent models have seen enhancements such as improved engine efficiency, quieter operation, and upgraded vibration systems to increase durability and operator comfort.

Ingersoll Rand DD24, vibratory drum roller, DD24 specs, compaction equipment, soil compactor, heavy machinery, construction equipment, roller specifications, dual drum roller, Ingersoll Rand vibratory roller

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Readers use Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks to revisit core principles.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks contribute to a more efficient learning ecosystem.

Logical sequencing reduces cognitive overload.

Unlike short-form content, Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks emphasize depth over immediacy.

Many learners report improved discipline when using Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks.

Ultimately, Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks offer an efficient, scalable, and flexible approach to continuous learning.

Using PDF Files for Education, Ebooks, and Digital Learning

PDF files play a central role in modern education and digital learning environments. From textbooks and lecture notes to training manuals and self-study guides, PDFs provide a reliable and flexible format for delivering structured knowledge. When distributing Ingersoll Rand Dd24 Vibratory Drum Roller Specs as a PDF for educational purposes, understanding how learners interact with digital documents helps maximize effectiveness and engagement.

Educational content often needs to be accessed across multiple devices and platforms. PDFs support this requirement by maintaining consistent formatting and layout, ensuring that students and educators experience Ingersoll Rand Dd24 Vibratory Drum Roller Specs as intended regardless of screen size or operating system. This stability makes PDFs particularly suitable for long-form learning materials and reference documents.

Why PDFs are widely used in education

One of the main reasons PDFs are popular in education is their universal accessibility. Most devices include built-in PDF readers, eliminating the need for additional software. This convenience allows learners to focus on content rather than technical setup. For materials like Ingersoll Rand Dd24 Vibratory Drum Roller Specs, ease of access reduces barriers to learning and encourages consistent usage.

PDFs also support offline access, which is essential in environments with limited or unreliable internet connectivity. Students can download educational PDFs once and continue learning without constant online access, making PDFs practical for a wide range of learning contexts.

Designing PDFs for effective learning

Well-designed educational PDFs improve comprehension and retention. Clear headings, logical structure, and consistent formatting guide learners through the material. When preparing Ingersoll Rand Dd24 Vibratory Drum Roller Specs, breaking content into manageable sections prevents cognitive overload and helps learners focus on key concepts.

Visual elements such as diagrams, tables, and illustrations support understanding when used appropriately. However, visuals should complement text rather than overwhelm it. Balanced design enhances clarity and keeps learners engaged throughout the document.

Using PDFs as ebooks

PDFs are commonly used as ebooks due to their stable layout and wide compatibility. Unlike some ebook formats that adapt content dynamically, PDFs preserve page design, making them suitable for textbooks, workbooks, and visually structured materials. When presenting Ingersoll Rand Dd24

Vibratory Drum Roller Specs as an ebook, this consistency ensures a predictable reading experience.

To improve ebook usability, features such as bookmarks and clickable tables of contents should be included. These tools allow readers to navigate chapters easily and revisit important sections without excessive scrolling.

Interactive learning features in PDFs

Modern PDFs can include interactive elements that enhance learning. Hyperlinks, embedded media, and interactive forms allow users to engage with content more actively. For example, quizzes or self-assessment sections embedded within Ingersoll Rand Dd24 Vibratory Drum Roller Specs encourage reflection and reinforce learning outcomes.

Interactive elements should be used thoughtfully. Overuse may distract learners or create compatibility issues on certain devices. Testing ensures that interactive features function reliably across platforms.

Annotation and study tools

Annotation features are particularly valuable for educational PDFs. Highlighting text, adding comments, and inserting notes allow learners to personalize their study experience. When studying Ingersoll Rand Dd24 Vibratory Drum Roller Specs, annotations help capture insights and organize thoughts for review.

Encouraging students to use annotation tools promotes active learning. Annotated PDFs become personalized study resources that reflect individual learning paths and priorities.

Accessibility in educational PDFs

Accessible PDFs ensure that educational content reaches diverse learners. Selectable text, logical reading order, and alternative text for images support screen readers and assistive technologies. When Ingersoll Rand Dd24 Vibratory Drum Roller Specs follows accessibility guidelines, it becomes usable for learners with different abilities.

Accessibility also improves overall usability. Clear structure, proper headings, and readable fonts benefit all learners, not only those using assistive tools.

Supporting different learning styles

Learners have varied preferences and needs. PDFs can support multiple learning styles by combining text, visuals, and structured layouts. Including summaries, key points, and review sections in Ingersoll Rand Dd24 Vibratory Drum Roller Specs helps reinforce understanding for visual and reflective learners.

Well-organized PDFs allow learners to progress at their own pace, revisit sections, and focus on areas that require additional attention.

Using PDFs in online and blended learning

In online and blended learning environments, PDFs often serve as core resources. They complement video lectures, discussion forums, and interactive platforms. Linking Ingersoll Rand Dd24 Vibratory Drum Roller Specs within learning management systems ensures consistent access for students.

PDFs provide a stable reference point in dynamic online courses, allowing learners to revisit foundational material as needed throughout the learning process.

Managing updates and revisions in learning materials

Educational content evolves over time. Managing updates efficiently ensures that learners access the most accurate information. Clear version labeling helps distinguish updated editions of Ingersoll Rand Dd24 Vibratory Drum Roller Specs and prevents confusion among students.

Providing revision notes or summaries of changes helps learners understand what has been updated and why. This practice supports transparency and trust in educational materials.

Assessment and evaluation using PDFs

PDFs can be used for assessments such as worksheets, assignments, and exams. Form-enabled PDFs allow students to enter responses digitally, simplifying submission and review processes. When using Ingersoll Rand Dd24 Vibratory Drum Roller Specs for assessment, ensuring clarity and compatibility is essential.

Secure settings can help protect assessment integrity by restricting editing or printing where appropriate. However, accessibility and fairness should always be considered when applying restrictions.

Copyright and ethical use in education

Educational PDFs must respect copyright and intellectual property rights. Using licensed content and providing proper attribution ensures ethical distribution of materials like Ingersoll Rand Dd24 Vibratory Drum Roller Specs. Understanding usage rights helps educators and institutions avoid legal issues.

Clear usage guidelines inform learners about permitted actions, such as printing or sharing, and promote responsible use of educational resources.

Storing and organizing educational PDFs

Students and educators often manage large collections of learning materials. Organizing PDFs by

course, topic, or semester improves efficiency. Clear naming conventions make it easier to locate Ingersoll Rand Dd24 Vibratory Drum Roller Specs during study or teaching sessions.

Regular review and cleanup prevent clutter and ensure that outdated materials do not interfere with current learning objectives.

Encouraging effective study habits with PDFs

How learners use PDFs influences learning outcomes. Encouraging practices such as note-taking, bookmarking, and regular review helps maximize the value of educational materials. When used consistently, Ingersoll Rand Dd24 Vibratory Drum Roller Specs becomes a central tool in the learning process rather than a passive resource.

Guidance on effective PDF usage supports independent learning and helps students develop strong study skills over time.

Future trends in educational PDF usage

As digital learning evolves, PDFs continue to adapt. Integration with cloud platforms, enhanced interactivity, and improved accessibility features support modern educational needs. Staying informed about these trends ensures that Ingersoll Rand Dd24 Vibratory Drum Roller Specs remains relevant and effective in future learning environments.

Educational institutions and content creators who adapt their PDFs to evolving standards maintain long-term value and usability.

Final thoughts on PDFs in education and learning

PDF files remain a powerful and flexible tool for education, ebooks, and digital learning. By focusing on accessibility, structure, interactivity, and thoughtful design, educators and learners can maximize the benefits of Ingersoll Rand Dd24 Vibratory Drum Roller Specs. When used strategically, PDFs support effective learning experiences across diverse educational contexts.