

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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They do not demand attention, yet remain available. They offer structure without pressure and depth without rigidity. Over time, these qualities shape mindset. Learning feels approachable. Curiosity feels welcomed. Understanding feels earned rather than forced. Accessing **Ingersoll Rand Dd24 Vibratory Drum Roller Specs** in this way reflects a broader shift in how people engage with information. It prioritizes continuity over completion, reflection over speed, and curiosity over obligation. Rather than marking an endpoint, each return to the text opens a new entry point. Ideas evolve, questions deepen, and understanding grows gradually. In this space, learning continues without announcement. It moves alongside daily life, responding to moments of interest, quiet reflection, and renewed curiosity. And in that steady presence, knowledge remains not as a destination, but as something that stays close, ready whenever it is needed.

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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Professionals often rely on Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks for ongoing skill maintenance.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks help learners organize complex ideas.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks align with sustainable learning practices.

Methodical study improves mastery.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks provide a reliable foundation for both academic study and practical application.

The modular design of Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks allows selective reading.

Centralization improves efficiency.

They represent a practical response to evolving learning expectations.

Clear goals improve consistency.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks fit naturally into disciplined study routines.

Readers can study Ingersoll Rand Dd24 Vibratory Drum Roller Specs at their own pace, revisiting complex sections while skipping familiar topics to optimize learning efficiency and personal relevance.

Digital access enables quick consultation during real-world application.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks provide measurable long-term value.

Accessibility across age groups and experience levels enhances inclusivity.

Ingersoll Rand Dd24 Vibratory Drum Roller Specs eBooks democratize access to information by minimizing production and distribution costs compared to traditional publishing models.

Managing Digital Libraries and Large PDF Collections Effectively

As digital content continues to grow, many users find themselves managing extensive collections of PDF documents. From educational materials and research papers to manuals and reference guides, digital libraries have become central to modern workflows. When organizing Ingersoll Rand Dd24 Vibratory Drum Roller Specs within a large PDF collection, applying

systematic management strategies improves accessibility, efficiency, and long-term usability.

A well-organized digital library saves time and reduces frustration. Instead of searching through disorganized folders, users can locate the exact version of Ingersoll Rand Dd24 Vibratory Drum Roller Specs they need within seconds. Proper management also minimizes duplication, storage waste, and version confusion, which are common challenges in large document collections.

Establishing a clear library structure

The foundation of any effective digital library is a clear and logical folder structure. Organizing PDFs by category, topic, project, or purpose makes navigation intuitive. When planning a structure, consistency is more important than complexity. A simple, well-defined hierarchy ensures that Ingersoll Rand Dd24 Vibratory Drum Roller Specs remains easy to find even as the library grows.

Subfolders can be used to separate drafts, final versions, and archived files. This approach helps prevent accidental use of outdated documents and supports better version control over time.

Naming conventions for PDF files

Clear and consistent naming conventions are essential for managing large collections. Descriptive filenames that include relevant keywords, dates, or version numbers improve both human readability and searchability. When naming Ingersoll Rand Dd24 Vibratory Drum Roller Specs, avoid vague labels and unnecessary abbreviations that may cause confusion later.

Using standardized naming patterns across the entire library ensures uniformity. This practice is especially useful when multiple users contribute to the same digital library.

Using metadata to enhance organization

Metadata adds an extra layer of organization beyond folder structures and filenames. PDF metadata such as title, author, subject, and keywords allow documents to be sorted and filtered efficiently. Properly filled metadata helps users locate Ingersoll Rand Dd24 Vibratory Drum Roller Specs even when its physical location within the library is forgotten.

Metadata is particularly valuable in document management systems and advanced PDF readers that support filtering and search based on document properties.

Version control and document history

Managing multiple versions of the same document is one of the biggest challenges in digital libraries. Clear version labeling prevents confusion and ensures users access the most current edition of Ingersoll Rand Dd24 Vibratory Drum Roller Specs. Including version numbers or revision dates in filenames helps track document evolution.

Maintaining a simple changelog provides context for updates and allows users to understand what has changed between versions. This is especially important in professional and collaborative environments.

Tagging and categorization strategies

Tags provide flexible organization beyond fixed folder structures. Applying descriptive tags allows PDFs to belong to multiple categories without duplication. For example, Ingersoll Rand Dd24 Vibratory Drum Roller Specs can be tagged by topic, audience, or usage type, making it easier to retrieve in different contexts.

Tagging systems work best when controlled and consistent. Establishing guidelines for tag usage prevents fragmentation and maintains clarity within the library.

Search and retrieval optimization

Efficient search functionality is critical for large PDF collections. Ensuring that PDFs contain selectable text and are properly indexed improves search accuracy. When Ingersoll Rand Dd24 Vibratory Drum Roller Specs is text-based and well-structured, keyword searches become significantly faster and more reliable.

Using OCR for scanned documents converts images into searchable text, improving both usability and accessibility across the library.

Managing storage and performance

Large PDF libraries can consume significant storage space. Regular audits help identify duplicate files, outdated documents, and unnecessary copies. Removing or archiving these files improves performance and reduces clutter, making Ingersoll Rand Dd24 Vibratory Drum Roller Specs easier to manage.

Compressing PDFs without sacrificing quality helps optimize storage usage. Balanced file size management ensures that documents load quickly while maintaining readability.

Cloud-based libraries and synchronization

Cloud storage solutions offer flexibility and accessibility for digital libraries. Synchronizing PDFs across devices ensures that users can access Ingersoll Rand Dd24 Vibratory Drum Roller Specs anytime and anywhere. Cloud platforms also provide version history and backup features that add resilience to document management workflows.

When using cloud services, understanding sync settings prevents conflicts and accidental overwrites. Clear usage guidelines help maintain data integrity across multiple users and devices.

Collaboration within digital libraries

Digital libraries often serve multiple users simultaneously. Establishing clear roles and permissions helps prevent unauthorized changes. Read-only access, editing privileges, and controlled sharing ensure that Ingersoll Rand Dd24 Vibratory Drum Roller Specs remains accurate and consistent.

Collaboration tools that support annotations and comments enhance teamwork without altering the original document. This approach preserves content integrity while allowing feedback and discussion.

Security and access control

Protecting sensitive documents is essential in digital libraries. PDFs support security features such as password protection and restricted editing. Applying appropriate access controls to Ingersoll Rand Dd24 Vibratory Drum Roller Specs helps safeguard information while maintaining usability for authorized users.

Regularly reviewing permissions ensures that access remains aligned with current needs and responsibilities, reducing the risk of data exposure.

Backup strategies and data protection

No digital library is complete without a reliable backup strategy. Storing copies of PDFs in multiple locations protects against data loss due to hardware failure, accidental deletion, or system errors. Backups ensure that Ingersoll Rand Dd24 Vibratory Drum Roller Specs remains available even in unexpected situations.

Automated backup solutions reduce the risk of human error and provide consistent protection over time. Periodic testing of backups ensures reliability and accessibility when needed.

Archiving outdated or inactive documents

Not all documents require frequent access. Archiving older or inactive PDFs helps keep active libraries streamlined. Archived versions of Ingersoll Rand

Dd24 Vibratory Drum Roller Specs remain available for reference without cluttering daily workflows.

Clear archive labeling prevents confusion and ensures that users understand the status and relevance of archived documents.

Accessibility in large PDF libraries

Accessibility is a critical consideration when managing digital libraries. Ensuring that PDFs are readable by assistive technologies expands usability for diverse audiences. Selectable text, logical structure, and proper tagging make Ingersoll Rand Dd24 Vibratory Drum Roller Specs more inclusive.

Accessible documents also improve search accuracy and overall user experience for all users, not just those with accessibility needs.

Evaluating tools for PDF library management

Various tools exist to support digital library management, ranging from simple folder systems to advanced document management platforms. Choosing tools that align with library size, complexity, and user needs ensures efficient handling of Ingersoll Rand Dd24 Vibratory Drum Roller Specs.

Evaluating features such as search, tagging, version control, and security helps determine the best solution for long-term management.

Maintaining consistency over time

Consistency is key to sustainable digital library management. Documenting organizational rules, naming conventions, and workflows helps maintain order as the library grows. Training users on best practices ensures that Ingersoll Rand Dd24 Vibratory Drum Roller Specs remains easy to manage and locate.

Periodic reviews and adjustments allow the system to evolve without losing

clarity or control.

Long-term planning for digital libraries

Digital libraries should be designed with future growth in mind. Scalable structures, flexible categorization, and reliable storage solutions support expansion without disruption. Planning ahead ensures that Ingersoll Rand Dd24 Vibratory Drum Roller Specs remains accessible and organized as collections increase in size.

Anticipating future needs reduces the likelihood of major restructuring and ensures continuity across evolving workflows.

Final thoughts on digital library management

Managing large PDF collections requires a combination of organization, consistency, and ongoing maintenance. By applying structured systems, clear naming conventions, metadata usage, and secure storage practices, users can maximize the value of Ingersoll Rand Dd24 Vibratory Drum Roller Specs. Well-managed digital libraries improve efficiency, reduce errors, and support long-term access to essential information.