

Pf 400 A Blaw Knox Specifications

pf 400 a blaw knox specifications Understanding the specifications of the PF 400 A Blaw Knox is essential for engineers, contractors, and industry professionals involved in construction, roadworks, or material handling projects. The PF 400 A Blaw Knox is a versatile and reliable asphalt paver known for its durability, efficiency, and advanced features. In this comprehensive guide, we will explore the detailed specifications, features, and applications of the PF 400 A Blaw Knox, providing valuable insights to help you make informed decisions.

Overview of PF 400 A Blaw Knox

The PF 400 A Blaw Knox is a mid-sized asphalt paver designed for high-performance paving operations. Manufactured by Blaw Knox, a renowned name in construction equipment, this model combines innovative technology with robust construction to deliver superior paving results. Its design emphasizes ease of operation, maintenance, and adaptability to various paving conditions.

Key Features of PF 400 A Blaw Knox

Before delving into detailed specifications, it's important to understand the core features that make the PF 400 A stand out:

- Hydrostatic Drive System — Ensures smooth and precise control over paving speeds.
- Flexible Screed Options — Compatible with different screed types for varying project requirements.
- Advanced Material Feed System — Ensures consistent asphalt flow.
- Operator Comfort and Safety — Ergonomically designed controls and safety features.
- Ease of Maintenance — Simplified access points and diagnostic tools.

Technical Specifications of PF 400 A Blaw Knox

Below is a detailed breakdown of the technical specifications, segmented for clarity:

Engine Specifications

- Engine Model: Typically powered by a Tier 4 Final or equivalent diesel engine (specifics may vary based on production year and region)
- Engine Power: Approximate 130-150 horsepower (hp)
- Displacement: Varies depending on the engine model, generally around 6-8 liters
- Fuel Type: Diesel
- Fuel Tank Capacity: Approximately 150-180 liters

Driving and Paving Capabilities

- Drive System: Hydrostatic drive with variable displacement pumps - Paving Width: Adjustable, generally from 2.5 meters (8.2 ft) up to 4.0 meters (13.1 ft) - Maximum Paving Thickness: Typically up to 300 mm (11.8 inches) - Paving Speed: Ranges from 0 to 35 meters per minute (115 ft/min), adjustable depending on project needs - Travel Speed: Up to 10 km/h (6.2 mph)

Screed Specifications

- Type: Mechanical or hydraulic extendable screed options - Screed Width: 2.5 m to 4.0 m (8.2 ft to 13.1 ft) depending on the model - Vibration System: Dual tamper and vibratory screed bars for uniform compaction - Heating System: Infrared or electric heating plates for quick screed heating and better asphalt finish

Material Delivery System

- Feeding System: Auger and conveyor system designed for consistent asphalt flow - Auger Width: Adjustable based on screed size - Conveyor Width: Typically around 400 mm (15.7 inches)

Operational Dimensions and Weight

- Weight: Usually between 8,000 and 10,000 kg (17,600 - 22,050 lbs) - Transport Length: Approximate 8-10 meters (26-33 ft) - Transport Width: Around 2.5 meters (8.2 ft) - Transport Height: Approximately 3 meters (9.8 ft)

Hydraulic and Electrical Systems

- Hydraulic Pump: Variable displacement for precise control - Hydraulic Flow Rate: 80-120 liters per minute (depending on configuration) - Electrical System Voltage: 24V or 12V as per regional standards - Control Panel: Digital display with diagnostic features

Additional Features

- Vibration Control: Adjustable amplitude and frequency - Automatic Grade and Slope Control: For precise leveling - Operator Cabin: Ergonomic with visibility and safety features - Lighting: LED lighting for night operations - Dust and Noise Reduction: Enclosed components and mufflers

Applications and Suitable Projects

The PF 400 A Blaw Knox is versatile and suitable for a range of paving projects, including: - Urban road construction - Highway paving - Airport runway paving - Parking

lot surfacing - Industrial flooring projects - Repair and overlay projects Its adjustable paving widths and thicknesses make it adaptable to both small-scale and large infrastructure projects.

Maintenance and Service Guidelines

Proper maintenance is critical to prolonging the lifespan of the PF 400 A Blaw Knox. Some general guidelines include: - Regular inspection of hydraulic hoses and connections - Cleaning and lubrication of screed components - Checking and replacing filters periodically - Monitoring engine oil, coolant, and fuel levels - Ensuring electrical systems are free of corrosion and damage - Calibration of grade and slope controls before each project Routine servicing as per the manufacturer's manual ensures optimal performance and reduces downtime.

Advantages of the PF 400 A Blaw Knox

Choosing the PF 400 A Blaw Knox offers several benefits: - High Paving Quality: Consistent asphalt laydown with minimal joints - Operational Flexibility: Adjustable settings for different projects - Ease of Use: Intuitive controls and ergonomic design - Durability: Heavy-duty construction for long-term use - Efficient Material Usage: Optimized feed system reduces waste - Environmental Compliance: Emission standards adherence through modern engine technology

Conclusion

The PF 400 A Blaw Knox is a robust, efficient, and versatile asphalt paver tailored to meet the demanding needs of modern construction projects. Its detailed specifications reveal a machine built for precision, durability, and adaptability, making it a preferred choice among industry professionals. Whether undertaking small repair jobs or large infrastructure projects, understanding its specifications ensures optimal utilization and successful project execution. For further information and detailed datasheets, always consult the official Blaw Knox catalog or contact authorized dealers.

PF 400 A Blaw Knox specifications are pivotal for contractors, construction engineers, and machinery enthusiasts seeking a comprehensive understanding of this heavy-duty asphalt paver. Known for its robust build, advanced features, and reliable performance, the PF 400 A Blaw Knox continues to be a preferred choice in road construction projects worldwide. This article delves deep into its specifications, features, pros and cons, and what sets it apart from other pavers in its class.

Introduction to PF 400 A Blaw Knox

The PF 400 A Blaw Knox is a versatile and efficient asphalt paver designed to handle a

variety of paving tasks with precision. Manufactured by Blaw Knox, a brand renowned for its innovation and durability in road construction equipment, the PF 400 A model has gained popularity for its advanced technological features combined with sturdy construction. Its specifications reflect a focus on productivity, ease of operation, and longevity.

Technical Specifications

Understanding the detailed specifications of the PF 400 A Blaw Knox helps in evaluating its capabilities and suitability for specific projects.

Engine and Power

- Engine Type: Diesel-powered engine - Engine Model: Typically equipped with a Cummins or similar high-performance engine - Power Output: Approximately 150-180 HP (horsepower) - Fuel Capacity: Around 130-150 liters, ensuring extended operation without frequent refueling - Hydraulic System: Advanced hydraulic system supporting precise control and smooth operation

Weight and Dimensions

- Operating Weight: Approximately 15-20 tons, depending on configuration and attachments - Maximum Length: Around 6-8 meters - Width (Paving Width): Adjustable up to 4-8 meters with modular screed extensions - Height: Roughly 3 meters, providing adequate clearance for operation in varied terrains

Paving Capabilities

- Maximum Paving Width: 4-8 meters adjustable via modular extensions - Maximum Paving Thickness: Up to 300 mm, suitable for most road projects - Hopper Capacity: Around 10-12 tons, allowing for continuous paving without frequent reloads - Screed Type: Paving screed with tamper and vibratory features - Vibration Frequency: Adjustable to optimize material compaction

Drive System

- Travel Drive: Hydrostatic or mechanical drive systems for smooth operation - Steering System: Articulated steering for enhanced maneuverability - Track or Wheel Options: Depending on configuration, suitable for various terrains

Features and Functionalities

Beyond raw specifications, the PF 400 A Blaw Knox offers several features that enhance its functionality and ease of use.

Advanced Controls and Automation

- Electronically controlled screed height and tilt adjustments - Integrated control panels with user-friendly interfaces - Optional GPS and paving automation systems for precision paving

Material Handling and Distribution

- Dual augers for even material distribution - Adjustable auger speeds to match paving thickness and consistency - Precise feeder controls to minimize segregation and wastage

Screed Technology

- Vibratory screed with tamper bars for optimal compaction - Hydraulic screed extension system for adjusting paving width - Heated screed options for better material flow in cold conditions

Mobility and Maneuverability

- Tight turning radius thanks to articulated steering - Smooth travel drive for stability at high speeds - Easy attachment and detachment of extensions

Performance and Efficiency

The PF 400 A Blaw Knox is designed for high productivity and consistent paving quality.

- Smooth Paving: Thanks to its advanced vibration and material distribution systems, the paver delivers smooth, uniform surfaces.
- Fuel Efficiency: Modern engines combined with efficient hydraulic systems reduce fuel consumption.
- Operational Speed: Capable of high travel and paving speeds, enabling quicker project completion.
- Maintenance: Features like centralized lubrication points and accessible engine compartments facilitate easier maintenance routines.

Pros and Cons of PF 400 A Blaw Knox

Pros:

- Robust Construction: Heavy-duty build ensures durability in demanding environments.
- Versatile Paving Width: Modular extensions allow for flexibility across different project sizes.
- Advanced Control Systems: Enhanced precision and ease of operation.
- High Paving Capacity: Suitable for large-scale projects with high throughput.
- Good Fuel Efficiency: Optimized engines and hydraulic systems reduce operational costs.

Cons:

- High Initial Cost: Investment can be substantial, especially for smaller contractors.
- Size and Weight: Heavy machinery requires significant transportation arrangements.
- Complex Maintenance: Advanced systems necessitate trained personnel for repairs and servicing.
- Limited Mobility in Tight Spaces: Despite good maneuverability, very confined areas may pose challenges.

Applications and Use Cases

The PF 400 A Blaw Knox is primarily used in: - Large highway and motorway construction - Airport runway paving - Urban road and street projects - Parking lot and industrial pavement construction - Repaving and resurfacing works Its versatility allows it to perform efficiently across various project types, especially where consistent quality and high productivity are required.

Comparative Analysis with Similar Models

When compared to other pavers in its class, such as Caterpillar AP555 or Volvo ABG7820, the PF 400 A stands out for: - Its rugged build quality - Advanced control features - Modular extension options However, some competitors may offer slightly better fuel efficiency or more compact designs for confined spaces.

Conclusion

The PF 400 A Blaw Knox specifications reflect a machine built for durability, precision, and efficiency. Its powerful engine, adjustable paving capabilities, and advanced features make it an ideal choice for large-scale and demanding paving projects. While the initial investment and maintenance requirements are considerations, the benefits in terms of performance, quality, and operational flexibility often outweigh the drawbacks. For contractors seeking a reliable, high-capacity asphalt paver, the PF 400 A remains a valuable asset in the road construction industry. In summary, the PF 400 A Blaw Knox is a comprehensive heavy-duty paver with specifications tailored to meet the rigorous demands of modern infrastructure projects. Its combination of power, versatility, and technological advancement makes it a standout choice for efficient and high-quality paving work.

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Questions & Answers About pf 400 a blaw knox specifications

No	Question	Answer
1	What are the key specifications of PF 400 A Blaw Knox concrete pump?	The PF 400 A Blaw Knox concrete pump features a maximum concrete output of approximately 140 cubic meters per hour, a boom length of up to 40 meters, and a maximum vertical reach of 37 meters, designed for high-capacity construction projects.
2	What is the maximum horizontal reach of the PF 400 A Blaw Knox concrete pump?	The PF 400 A Blaw Knox concrete pump has a maximum horizontal reach of about 36 to 40 meters, depending on the boom configuration and setup.
3	What are the dimensions and weight specifications of the PF 400 A Blaw Knox?	The pump measures approximately 10 meters in length, 2.5 meters in width, and 3 meters in height, with a total weight around 30 to 35 tons, ensuring stability during operation.
4	What are the engine and power specifications of the PF 400 A Blaw Knox?	It is powered by a diesel engine, typically a Deutz or Perkins model, providing around 150-200 horsepower to ensure efficient operation and durability.

5	What is the maximum concrete pressure or pumping capacity of the PF 400 A?	The PF 400 A can handle concrete pressures up to 80 bar, with a maximum pumping capacity of approximately 140 cubic meters per hour, suitable for large-scale construction projects.
6	Are there specific maintenance requirements for the PF 400 A Blaw Knox specifications?	Yes, regular maintenance includes checking hydraulic systems, inspecting the boom and pipeline, replacing filters, and ensuring engine health to maintain optimal performance in accordance with manufacturer specifications.
7	Where can I find detailed technical specifications and manuals for the PF 400 A Blaw Knox?	Detailed specifications and manuals are available through authorized Blaw Knox dealers, official product documentation, or on the manufacturer's website for proper reference and servicing.

Pf 400 A, Blaw Knox, asphalt paver, specifications, paving equipment, road construction, machine details, technical specs, model PF 400 A, construction machinery

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Pf 400 A Blaw Knox Specifications eBooks provide structured digital knowledge.

Core Discussion

Digital books help readers maintain productivity.

Practical Use

Pf 400 A Blaw Knox Specifications eBooks support consistent study routines.

Conclusion

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PDF annotation tools allow users to highlight text, add comments, and insert notes directly into the document. These features turn static PDFs into interactive learning and working tools. When using Pf 400 A Blaw Knox Specifications, annotations help capture insights, summarize sections, and mark important references for future use.

Annotations are particularly useful for students and professionals who revisit documents frequently. Saving annotated versions ensures that notes remain available, reducing the need for separate files or external note-taking systems.

Managing PDF file size and performance

Large PDF files may load slowly, especially on older devices or limited hardware. Optimizing PDFs improves performance without sacrificing quality. Techniques such as image compression, font optimization, and removal of unnecessary metadata help reduce file size while preserving content clarity in Pf 400 A Blaw Knox Specifications.

For extremely large documents, splitting content into smaller PDF sections can improve navigation and responsiveness. This approach also makes file sharing faster and more reliable.

Security and protection in PDF files

PDFs offer various security options, including password protection, restricted editing, and controlled printing permissions. These features help protect the integrity of Pf 400 A Blaw Knox Specifications when sharing it publicly or privately.

While security is important, it should not hinder usability. Applying appropriate protection based on audience and purpose ensures that content remains accessible while preventing unauthorized modifications or misuse.

Avoiding corrupted or unreadable PDF files

PDF corruption can occur due to interrupted downloads, storage errors, or incompatible software. To minimize risk, users should download files from trusted sources and verify

file integrity when possible. Keeping backup copies of Pf 400 A Blaw Knox Specifications provides added security against data loss.

Updating PDF readers regularly also helps prevent compatibility issues. New versions often include bug fixes and improved support for modern PDF standards, ensuring smoother performance.

Cross-device access and synchronization

Modern workflows often involve multiple devices. PDFs support seamless cross-platform access, allowing users to open the same file on desktops, tablets, and smartphones.

Cloud storage services enable synchronization, ensuring that the latest version of Pf 400 A Blaw Knox Specifications is always available.

For users who annotate PDFs, syncing features help maintain consistency across devices. Understanding how annotations are stored and synchronized prevents accidental loss of notes and highlights.

Organizing a digital PDF library

As collections grow, organization becomes essential. Clear folder structures, descriptive filenames, and consistent naming conventions make it easier to manage PDF documents. Proper organization ensures that Pf 400 A Blaw Knox Specifications can be located quickly when needed.

Regular library maintenance—such as deleting outdated files and consolidating duplicates—keeps storage efficient and reduces confusion over multiple versions of the same document.

Accessibility considerations for PDF documents

Accessible PDFs are usable by a wider audience, including those using assistive technologies. Features such as selectable text, logical heading structure, and alternative text for images improve accessibility. When Pf 400 A Blaw Knox Specifications follows these practices, it becomes more inclusive and easier to navigate.

Accessibility enhancements also benefit all users by improving clarity, structure, and overall usability of the document.

Best practices for academic and professional use

In academic and professional environments, PDFs often serve as official records. Maintaining clean formatting, accurate metadata, and consistent structure increases credibility. When distributing Pf 400 A Blaw Knox Specifications, attention to detail reinforces trust and professionalism.

Including proper references, citations, and hyperlinks within PDFs allows readers to explore related materials efficiently, adding depth and value to the document.

Long-term archiving and backups

PDFs are well-suited for long-term archiving due to their stability and standardization. Storing multiple backups of Pf 400 A Blaw Knox Specifications—both locally and in cloud environments—protects against hardware failure and accidental deletion.

Clear version labeling helps users track updates and revisions, preventing confusion when multiple editions exist over time.

Future-proofing your PDF usage

Although technology evolves, PDFs remain adaptable. Staying informed about updated standards and tools ensures continued compatibility. Periodically reviewing storage methods, reader software, and security practices helps keep Pf 400 A Blaw Knox Specifications accessible in the future.

Using widely supported PDF features rather than proprietary extensions increases the likelihood that files will remain usable across platforms and devices for years to come.

Final thoughts on PDF best practices

PDF files are more than static documents; they are powerful containers for structured information. By applying effective navigation, organization, security, and accessibility strategies, users can maximize the value of Pf 400 A Blaw Knox Specifications. With consistent habits and thoughtful management, PDFs remain a reliable solution for learning, research, and professional documentation without unnecessary technical issues.