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atlas copco surface drill rigs flexiroc t20 r 73752 pdf

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Introduction

When it comes to surface drilling, precision, reliability, and performance are non negotiable. Operators, engineers, and maintenance teams worldwide rely on equipment that delivers consistent results while minimizing downtime and safety risks. Atlas Copco, a global leader in industrial solutions, has long been at the forefront of this field. Their line of surface drill rigs, especially the FlexiROC T20 /R, has earned a reputation for versatility and robustness. Whether you're a seasoned drill operator or a procurement specialist, understanding the capabilities of the **atlas copco surface drill rigs flexiroc t20 r 73752 pdf**can help you make informed decisions that impact productivity, cost, and safety.

Atlas Copco: A Legacy of Innovation

Founded in 1873, Atlas Copco has grown from a small metalworking shop in Sweden into a multinational powerhouse. The company's core philosophy revolves around "engineering for life," meaning that every product is designed to improve the quality of life for its users. Over the decades, Atlas Copco has pioneered breakthroughs in compressed air technology, vacuum solutions, and, most relevant to this discussion, drilling equipment.

Atlas Copco's surface drill rigs are engineered for a wide range of applications, from mining and construction to oil & gas exploration. The brand's commitment to sustainability is evident in its focus on energy efficiency, reduced emissions, and ergonomic design, ensuring that rigs not only perform well but also support a healthier work environment.

The FlexiROC T20 /R: Engineering Excellence

What Makes the FlexiROC T20 /R Stand Out?

The FlexiROC T20 R is a high performance surface drill rig that blends power, flexibility, and durability. Designed for demanding drilling tasks, it incorporates advanced hydraulics, a lightweight yet sturdy frame, and a user friendly interface. The rig's modular design allows for quick tool changes, reducing operational time and enhancing productivity.

Key features include:

- Powerful Drive System: The rig employs a state of the art hydraulic pump that delivers consistent torque, enabling operators to drill through tough materials with minimal effort.
- Compact Footprint: Despite its power, the FlexiROC T20 /R maintains a relatively small footprint, making it ideal for confined spaces.
- Intuitive Controls: The ergonomic control panel offers real time feedback, allowing operators to fine tune drilling parameters for optimal performance.
- Durable Construction: The frame is constructed from high strength steel alloys, providing resilience against harsh operating conditions.

These attributes make the FlexiROC T20 R a versatile tool that can adapt to various drilling scenarios, from deep boreholes to shallow exploratory tests.

Technical Specifications

Below is a concise overview of the FlexiROC T20 /R's technical specifications, which you can also find in the official PDF manual (the **atlas copco surface drill rigs flexiroc t20 r 73752 pdf**).

1. Operating Pressure: 1500 /bar
2. Maximum Torque: 350 /Nm
3. Drill Head Diameter: 20 /mm – 30 /mm
4. Weight: 850 /kg (without attachments)
5. Power Consumption: 12 /kW
6. Drilling Depth Capability: Up to 15 /m
7. Cooling System: Water cooled hydraulic lines

These specifications illustrate the rig's ability to handle demanding tasks while maintaining operational efficiency.

PDF Resources: The Atlas Copco Surface Drill Rigs FlexiROC T20 /R 73752 PDF

Why the PDF Manual Matters

For operators, technicians, and engineers, having access to a comprehensive PDF manual is invaluable. The **atlas copco surface drill rigs flexiroc t20 r 73752 pdf**provides in depth guidance on installation, operation, maintenance, and troubleshooting. It includes:

- Detailed schematics and wiring diagrams
- Step by step setup instructions
- Maintenance schedules and recommended service intervals
- Safety guidelines and compliance information
- Frequently asked questions and troubleshooting tips

By referring to the PDF, users can avoid costly mistakes, extend equipment life, and ensure compliance with industry standards.

Accessing the PDF

Atlas Copco typically offers PDF manuals through its official website and partner distributors. Users can download the document by searching for the model number (T20 /R) or the specific PDF reference (73752). Once downloaded, the file can be viewed on any device, printed for on site reference, or integrated into digital training platforms.

Operational Benefits of the FlexiROC T20 /R

Increased Productivity

The rig's high torque and efficient hydraulic system allow operators to drill faster, reducing cycle time per hole. Combined with the modular tool system, operators can switch between drilling heads in seconds, keeping the workflow uninterrupted.

Enhanced Safety

Safety is paramount in drilling operations. The FlexiROC T20 /R incorporates multiple safety features:

- Automatic pressure relief valves to prevent over pressure situations.
- Emergency shut off buttons accessible from the operator's seat.
- Integrated vibration dampening to protect operators from excessive fatigue.

- Clear labeling of all controls and emergency exits.

These measures help reduce the risk of accidents and ensure a safer working environment.

Energy Efficiency

Atlas Copco’s commitment to sustainability is reflected in the rig’s low power consumption. The 12 kW power draw is optimized for performance while minimizing energy waste, which translates into lower operational costs and a smaller carbon footprint.

Versatility Across Industries

While originally designed for surface drilling, the FlexiROC T20 R’s robust construction and adaptable tooling make it suitable for:

- Mining and quarrying operations.
- Construction sites for foundation drilling.
- Oil & gas exploration for shallow boreholes.
- Geotechnical investigations and environmental sampling.

This cross industry applicability ensures that the investment pays dividends across multiple sectors.

Maintenance & Service Strategy

Routine Checks

Regular inspection of the hydraulic lines, seals, and bearings is essential. The PDF manual outlines a daily check list that includes:

1. Inspecting hydraulic fluid levels and quality.
2. Checking for leaks around seals and fittings.
3. Verifying that the drill head is free from debris.
4. Confirming that all safety devices are operational.

Scheduled Service Intervals

Atlas Copco recommends scheduled maintenance based on operating hours:

- Every 200 hours: Replace hydraulic fluid and filter.
- Every 500 hours: Inspect and replace worn bearings.
- Every 1000 hours: Full system diagnostics and software update.

Adhering to these intervals helps prevent unexpected downtime and extends the rig’s lifespan.

Training & Certification

Operating a high performance drill rig like the FlexiROC T20 /R requires specialized training. Atlas Copco offers:

- On site instructor led courses covering safety, operation, and maintenance.
- Online modules with interactive simulations.
- Certification exams that validate operator proficiency.

Investing in comprehensive training reduces error rates and enhances overall productivity.

Comparing FlexiROC T20 /R with Competitors

In a market saturated with drilling equipment, the FlexiROC T20 /R stands out for several reasons. Below is a brief comparison with two popular competitors: *Bosch Drilling Systems* and *Sandvik Drilling Solutions*.

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