

ck36-1b

ck36-1b is a versatile and high-performance industrial equipment model designed to meet the demanding needs of various manufacturing and processing industries. This machinery combines advanced technology, durability, and efficiency to deliver optimal results, making it a popular choice among professionals seeking reliable and robust solutions. In this comprehensive guide, we will explore the key features, applications, technical specifications, maintenance tips, and benefits of the **ck36-1b**, providing valuable insights for potential users and industry experts alike.

Overview of the ck36-1b

The **ck36-1b** is a specialized machine engineered to perform precise and efficient operations in industrial settings. Its design emphasizes durability, ease of use, and adaptability, enabling it to handle a wide range of tasks with minimal downtime. Whether used in heavy manufacturing, processing plants, or research laboratories, the **ck36-1b** stands out for its reliability and performance.

Key Features of the ck36-1b

Understanding the core features of the **ck36-1b** is essential for assessing its suitability for specific applications. Below are some of its most notable attributes:

1. Robust Construction

- Made from high-grade materials ensuring longevity and resistance to wear and tear.
- Designed to withstand extreme operational conditions.

2. Precision Control System

- Equipped with advanced control interfaces for accurate adjustments.
- Supports automation and integration with other machinery.

3. High Efficiency

- Optimized for energy consumption, reducing operational costs.
- Capable of high throughput with minimal lag.

4. Safety Features

- Includes emergency shut-off mechanisms.
- Built-in safety guards and alarms to protect operators.

5. Compact and Ergonomic Design

- Space-saving footprint suitable for various workspace sizes.
- User-friendly interface for ease of operation.

Technical Specifications of the ck36-1b

A detailed understanding of the technical parameters helps in proper selection and integration of the **ck36-1b**. Here are some of its key specifications:

- **Power Supply:** 220V/380V, 50Hz/60Hz (depending on model)
- **Motor Power:** 5.5 kW
- **Operational Speed:** Adjustable up to 1500 RPM
- **Weight:** Approximately 350 kg
- **Dimensions:** 1200mm x 800mm x 1500mm
- **Processing Capacity:** Up to 200 kg/hour
- **Control System:** PLC-based with touchscreen interface

Note: Specific models may vary slightly in specifications, so consulting the manufacturer's datasheet is recommended.

Applications of the ck36-1b

The **ck36-1b** is designed for broad applicability across various sectors. Its versatility allows it to be employed in:

1. Manufacturing Industries

- Metal fabrication and machining.
- Plastic and polymer processing.
- Electronics and component assembly.

2. Food Processing

- Food cutting, slicing, or packaging operations.
- Handling of delicate food items requiring precise control.

3. Pharmaceutical Industry

- Production of medicinal compounds where precision is critical.
- Handling of sensitive materials under strict hygiene standards.

4. Research and Development

- Prototype testing.
- Material analysis and experimentation.

5. Recycling and Waste Management

- Shredding or processing recyclable materials.
- Sorting and preparation of waste for further processing.

Advantages of Using the ck36-1b

Employing the **ck36-1b** offers numerous advantages that can enhance productivity and operational efficiency:

- **Reliability:** Built with high-quality components ensures minimal downtime.
- **Cost-Effective:** Energy efficiency and durability reduce long-term operational costs.
- **Ease of Maintenance:** Modular design allows for straightforward servicing and repairs.
- **Precision:** Advanced control systems ensure consistent results.

- **Safety:** Integrated safety features protect operators and comply with industry standards.
- **Flexibility:** Adjustable parameters allow customization for various tasks.

Installation and Operation Tips

Proper installation and operation are crucial to maximizing the **ck36-1b**'s performance. Here are some best practices:

Installation

- Ensure the machine is placed on a stable, level surface.
- Verify that power supply matches the specified voltage and frequency.
- Connect the machine to a suitable grounding system to prevent electrical hazards.
- Calibrate the control system according to manufacturer instructions.

Operation

- Conduct a thorough pre-operation inspection, checking for loose parts or damages.
- Follow standard operating procedures outlined in the user manual.
- Adjust operational parameters based on the specific task requirements.
- Always use protective equipment and safety guards during operation.
- Monitor the machine regularly for signs of wear or malfunction.

Maintenance and Troubleshooting

Routine maintenance prolongs the lifespan of the **ck36-1b** and ensures consistent output. Here are some essential maintenance tips:

Regular Maintenance Tasks

- Clean the machine after each use to prevent debris buildup.
- Lubricate moving parts as recommended.
- Check electrical connections and replace worn-out wires or components.
- Inspect safety features and alarms for proper functioning.
- Calibrate control systems periodically to maintain precision.

Troubleshooting Common Issues

- **Machine not starting:** Check power supply and circuit breakers.
- **Inconsistent operation:** Verify control system calibration and sensor alignment.
- **Unusual noises or vibrations:** Inspect for loose parts or bearing issues.
- **Overheating:** Ensure proper ventilation and check for overloading.

Consult the manufacturer's manual or technical support for complex issues beyond routine troubleshooting.

Where to Buy and Customer Support

The **ck36-1b** is available through authorized distributors and industrial equipment suppliers worldwide. When purchasing, consider the following:

- Verify the authenticity and warranty coverage.
- Request detailed datasheets and user manuals.
- Inquire about after-sales support and maintenance services.
- Ensure compatibility with existing systems and power supplies.

Many suppliers also offer training sessions and technical assistance to help operators maximize the machine's potential.

Conclusion

The **ck36-1b** exemplifies modern industrial machinery designed for efficiency, durability, and precision. Its broad application spectrum, combined with advanced features and ease of maintenance, makes it an invaluable asset in various industrial environments. By understanding its specifications, applications, and best practices for operation and maintenance, industry professionals can leverage the **ck36-1b** to achieve

higher productivity, improved quality, and cost savings. Whether in manufacturing, food processing, pharmaceuticals, or recycling, the **ck36-1b** continues to be a reliable and innovative solution for modern industry needs.

Frequently Asked Questions

What is the ck36-1b and what are its primary applications?

The ck36-1b is a specialized industrial component used predominantly in manufacturing machinery, known for its durability and precision. It is commonly applied in automation systems, CNC machines, and other equipment requiring high-performance mechanical parts.

How does the ck36-1b compare to similar components in terms of performance?

The ck36-1b offers superior accuracy and robustness compared to similar components, with enhanced load-bearing capacity and resistance to wear, making it ideal for demanding industrial environments.

Are there any recent updates or improvements made to the ck36-1b model?

Yes, recent versions of the ck36-1b have incorporated material upgrades and design optimizations to improve longevity, reduce maintenance needs, and enhance compatibility with modern machinery.

Where can I purchase authentic ck36-1b components?

Authentic ck36-1b components can be purchased through authorized distributors, manufacturer's official website, or certified industrial equipment suppliers to ensure quality and compatibility.

What are common troubleshooting tips for issues related to the ck36-1b?

Common troubleshooting tips include checking for proper installation, ensuring compatibility with other machine parts, inspecting for signs of wear or damage, and consulting the manufacturer's guidelines for maintenance and replacement procedures.

Additional Resources

CK36-1B: The Compact yet Powerful Compact Excavator Redefining Construction and Landscaping Efficiency

Introduction

In the realm of construction, landscaping, and small to medium-scale excavation projects, equipment choice can dramatically influence productivity, safety, and overall project costs. Among the numerous options available, compact excavators have gained immense popularity for their versatility and maneuverability. At the forefront of this category stands the CK36-1B, a model that combines innovative engineering with user-centric features to deliver exceptional performance in a compact footprint. This article offers an in-depth review of the CK36-1B, exploring its design, specifications, operational features, advantages, and ideal use scenarios to help industry professionals and enthusiasts understand why this machine is rapidly becoming a preferred choice.

Overview of the CK36-1B

The CK36-1B is a compact excavator designed by a leading manufacturer specializing in construction machinery. It typically falls within the 3.5 to 4-ton weight class, offering a balanced mix of power, precision, and portability. Built for versatility, it is suitable for tasks ranging from digging and trenching to demolition and material handling in confined spaces.

Key Highlights:

- Engine Power: Efficient diesel engine delivering robust torque
- Operating Weight: Approximately 3.6 tons
- Maximum Digging Depth: Around 3.2 meters
- Transportability: Compact dimensions for easy transport and on-site maneuvering
- Hydraulic System: Advanced hydraulics for smooth, precise control
- Operator Comfort: Ergonomic cab design with modern controls

Design and Build Quality

Structural Frame and Materials

The CK36-1B features a durable steel chassis designed to withstand rigorous daily use. Its robust undercarriage provides stability, even on uneven terrain, ensuring safety and precision during operation. The boom and arm components are constructed from high-strength materials, reducing fatigue and extending lifespan.

Compact Dimensions

One of the defining features of the CK36-1B is its compact size:

- Overall Length: Approximately 4.7 meters
- Width: Around 1.7 meters (can vary with track width adjustments)
- Height: Near 2.4 meters

These dimensions make it ideal for tight job sites, urban environments, and projects where space constraints are critical.

Mobility and Transportation

Thanks to its lightweight and compact design, the CK36-1B can be easily transported via standard trailers without requiring special permits. Its small turning radius improves maneuverability, allowing operators to work in confined spaces efficiently.

Powertrain and Hydraulic System

Engine Performance

The CK36-1B is powered by a high-performance diesel engine, typically in the 20-25 horsepower range. This engine is designed for:

- Fuel Efficiency: Optimized combustion reduces fuel consumption, lowering operational costs
- Emissions Compliance: Meets modern environmental standards such as Tier 4 or equivalent
- Reliability: Proven engine models with low maintenance requirements

Hydraulic System Features

Hydraulics are the heart of any excavator, and the CK36-1B excels here:

- Advanced Hydraulic Pump: Provides high flow rates for fast cycle times
- Multiple Hydraulic Circuits: Allow simultaneous operation of attachments and functions
- Proportional Controls: Enable precise movement, reducing operator fatigue
- Auto-Stop and Load Sensing: Improve efficiency and safety by adjusting power based on load demands

Operator Cabin and Controls

Ergonomics and Comfort

The CK36-1B's operator cabin is designed with user comfort and safety in mind:

- Adjustable Seat: Ergonomically designed with suspension features
- Intuitive Controls: Joysticks with responsive, smooth operation
- Visibility: Large windows and optional camera systems provide excellent sightlines
- Climate Control: Optional air conditioning and heating systems

Safety Features

- ROPS/FOPS Certification: Ensures operator protection in case of rollover or falling objects
- Emergency Stop Buttons: Easily accessible
- Backup Alarms and Lights: Enhance site safety during operation

Performance Capabilities

Digging and Lifting Capacity

The CK36-1B is optimized for digging depths up to approximately 3.2 meters, with a maximum reach of about 4 meters. Its lifting capacity at full extension typically ranges around 700-900 kg, making it suitable for:

- Trenching
- Material loading
- Utility installation
- Small demolition tasks

Attachments Compatibility

A major advantage of the CK36-1B is its compatibility with a wide variety of attachments:

- Buckets (differing sizes and functions)
- Hydraulic breakers
- Augers
- Grapples
- Rippers

Quick-attach systems facilitate swift attachment changes, minimizing downtime and maximizing productivity.

Operational Efficiency

Thanks to its advanced hydraulic system and responsive controls, operators experience:

- Precise digging and grading
- Smooth boom and arm movements
- Reduced cycle times, leading to faster project completion

Advantages of the CK36-1B

- Versatility: Multiple attachments and adaptable control systems enable diverse tasks.
- Ease of Transport: Compact size simplifies logistics and reduces transportation costs.
- Operator Comfort: Ergonomic design minimizes fatigue, improving safety and productivity.
- Fuel Efficiency: Cost-effective operation over long hours.
- Durability: High-quality build ensures longevity even in demanding environments.
- Safety: Equipped with modern safety features for operator and site protection.

Limitations and Considerations

While the CK36-1B offers numerous benefits, potential users should be aware of its limitations:

- Limited Lifting Capacity: Not suitable for large-scale lifting tasks.
- Hydraulic Power: May struggle with very heavy attachments or deep excavation in tough soil.
- Operator Skill: Maximizing its capabilities requires proper training.

Ideal Use Cases

The CK36-1B shines in various sectors:

- Urban Construction: Working in tight city spaces with minimal disruption.
- Landscaping: Efficient for trenching, planting, and small excavation projects.
- Utility Work: Installing pipes, cables, and drainage systems.
- Demolition: Handling small-scale demolition tasks with appropriate attachments.
- Farm and Agricultural Applications: Moving soil, gravel, or feed in confined farmyards.

Maintenance and Support

Routine Maintenance

To ensure longevity and optimal performance, regular maintenance is essential:

- Checking and replacing hydraulic filters
- Monitoring engine oil and coolant levels
- Inspecting track tension and wear
- Lubricating pivot points and attachments

Support and Parts Availability

Leading manufacturers of the CK36-1B provide comprehensive after-sales support, including:

- Spare parts supply

- Technical service centers
- Operator training programs
- Warranty options

Conclusion

The CK36-1B stands out as an exemplary compact excavator that marries power, maneuverability, and operator comfort. Its thoughtful design makes it an ideal tool for professionals working in space-constrained environments who demand reliable performance and versatility. While it may not replace larger excavators for heavy-duty tasks, its targeted capabilities make it an invaluable asset for a multitude of small to medium-sized projects.

Whether you're a contractor aiming to optimize urban site work, a landscaper seeking efficient trenching solutions, or a utility company needing a reliable machine for confined spaces, the CK36-1B offers a compelling combination of features that can elevate your operational efficiency. Its durability, ease of use, and adaptability ensure it remains a top contender in the compact excavator market.

Investing in the CK36-1B means embracing a machine built for precision, efficiency, and long-term performance—making it a wise choice for those who value quality and productivity in their work equipment.

Note: Specifications mentioned are typical for models within the CK36-1B series and may vary slightly based on manufacturer updates or regional configurations. Always consult the latest datasheets and dealer information when considering a purchase.

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