

EAC Certified Digger - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Introducing the EAC Certified Digger, a pinnacle of engineering excellence designed to redefine productivity and safety in the most challenging work environments. This machine is purpose-built for the heavy construction, mining, and large-scale agricultural sectors, offering an unmatched combination of digging power, operational efficiency, and operator comfort. As a testament to its superior design and quality, this digger fully complies with the stringent requirements of the Eurasian Economic Union (EAEU), ensuring seamless market access and operational reliability across the region.

The EAC Certified Digger is more than just a piece of equipment; it is a strategic investment in your operational success. By integrating a world-class powertrain with an intelligent, load-sensing hydraulic system, the machine delivers exceptional performance while minimizing fuel consumption and total cost of ownership. Its robust construction, certified safety features, and operator-centric design ensure that your team can work longer, safer, and more productively, even in the most demanding applications.



STRUCTURAL INTEGRITY & POWERTRAIN

At the heart of the EAC Certified Digger lies a commitment to durability and structural integrity. The machine is built upon a high-strength, reinforced steel chassis, utilizing advanced fabrication techniques to withstand the torsional stresses of heavy digging and lifting. This robust foundation is paired with a high-efficiency, turbocharged diesel engine, selected for its proven reliability, high torque at low RPM, and compliance with stringent emission standards (meeting TR CU 018/2011 requirements). This powertrain is meticulously engineered to deliver the raw power needed for the toughest jobs while ensuring long service life and ease of maintenance.

The machine's hydraulic system represents a leap forward in efficiency and control. It features a state-of-the-art, variable displacement axial piston pump

that provides on-demand flow, which significantly reduces parasitic losses and improves fuel economy. The system incorporates advanced features such as boom and arm priority, swing priority, and a flow regeneration system. These intelligent functions ensure that hydraulic power is precisely allocated to where it is needed most, resulting in faster cycle times, smoother simultaneous operations, and maximum productivity from every drop of fuel.

KEY FEATURES & OPERATOR COMFORT

- Load-Sensing Hydraulic System: An advanced electro-hydraulic system with a Main Control Valve (MCV) intelligently manages oil flow. Functions like boom/arm priority and flow regeneration optimize performance, delivering faster cycle times and exceptional fuel efficiency .
- ROPS/FOPS Certified Cab: The operator cabin is built to the highest safety standards, certified against Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS) requirements. It features a spacious, ergonomic layout with excellent all-around visibility, low noise levels, and an advanced climate control system for all-weather comfort .
- Intelligent Control Panel: The large, high-resolution multi-functional display provides operators with real-time performance data, fuel consumption, and diagnostic information. The intuitive interface allows for easy monitoring and adjustment of machine parameters, enabling efficient operation for both novice and expert users.

- Heavy-Duty Undercarriage: The digger features a rugged, high-clearance undercarriage designed for stability and longevity. Options for both wheeled and tracked configurations allow for optimal performance across diverse terrains, from soft ground to rugged job sites . Its reinforced design ensures superior durability and lowers maintenance costs.

COMPLIANCE & SAFETY STANDARDS

The EAC Certified Digger is fully certified according to the Technical Regulations of the Customs Union (TR CU). It strictly adheres to TR CU 010/2011 for machinery safety, ensuring robust mechanical design and integrated risk mitigation . The machine also meets the specific requirements for the control and safe operation of digger derricks in high-risk environments, including proximity to electrical power lines. The EAC certification signifies that the operator has demonstrated the knowledge and skills required for safe site setup, inspection, operation, and securement, conforming to the highest industry standards for operator safety and equipment compliance .

TECHNICAL SPECIFICATIONS

The following parameters are based on standard machine configurations. Actual specifications may vary depending on the specific model and

attachments selected.

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