<table>
<thead>
<tr>
<th>Model:</th>
<th>EX3600-7 (Fuel Consumption Optimization)</th>
<th>EX3600-7B (Tier 4 Final)</th>
<th>EX3600-7E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Rated Power:</td>
<td>Cummins: 1 450 kW (1 971 PS) MTU: 1 450 kW (1 971 PS)</td>
<td>Cummins: 1 450 kW (1 971 PS) MTU: 1 500 kW (2 040 PS)</td>
<td>1 200 kW</td>
</tr>
<tr>
<td>Operating Weight:</td>
<td>Cummins Loading Shovel: 365 000 kg MTU Loading Shovel: 366 000 kg</td>
<td>Cummins Loading Shovel: 369 000 kg MTU Loading Shovel: 366 000 kg</td>
<td>Loading Shovel: ISO Heaped: 22.0 m³</td>
</tr>
<tr>
<td></td>
<td>Backhoe: 366 000 kg</td>
<td>Backhoe: 370 000 kg</td>
<td>Backhoe: ISO Heaped: 22.0 m³</td>
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<td></td>
<td></td>
<td>Backhoe: 367 000 kg</td>
<td>Backhoe: ISO Heaped: 22.0 m³</td>
</tr>
<tr>
<td>Bucket:</td>
<td>Loading Shovel: ISO Heaped: 22.0 m³</td>
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</table>
Hitachi’s EX-7 series of excavators sets a new standard for the mining industry with its renowned design and innovative features. The EX3600-7 has emerged from a long line of predecessors, taking shape today as the best model of its class on the market.

Mining operations with the EX3600-7 benefit from maximized efficiency, assured durability, and a seamless operator experience.

*Introducing the NEW EX3600-7*
**SUSTAINABILITY**

Hitachi’s energy optimization technologies are kinder to the planet and reduce consumption costs while achieving superior productivity.

The EX3600-7 features a selection of engine configurations to meet regulatory requirements, electronically controlled hydraulic pumps, an optimized cooling package, and enhanced hydraulic circuits for a sustainable solution that doesn’t compromise on performance.

**MAIN PUMP ELECTRIC REGULATORS**

Each individually controlled hydraulic pump has its own electric regulator, enhancing engine power, lowering fuel consumption, and increasing productivity to lower the total cost of operation.

**HYDRAULIC REGENERATION CIRCUIT**

The flow regeneration valve fitted to the hydraulic system reduces pump demand, ultimately reducing power requirements from the hydraulic system and engine. The result is lower fuel consumption and improved pump life.

**HYDRAULIC OIL COOLER**

A larger hydraulic oil cooler with variable speed fan reduces energy demand and creates a more reliable hydraulic system. The oil cooler is kept separate from the radiator to effectively reduce hydraulic oil temperatures, increase hydraulic service life, and improve maintainability.

**ENGINE OPTIONS**

**CUMMINS**

Cummins QSK60, 16 cylinder, 60 L, turbo-charged, after-cooled 1,450 kW (1,971 PS)

Options:

- Cummins diesel engine U.S.A. EPA Tier 4 conforming model, with Diesel Exhaust Fluid (DEF) tank
- Cummins diesel engine Fuel Consumption Optimization (FCO) model

**MTU**

MTU 12V4000, after-cooled, 12 cylinder, 57.2 L

Options:

- MTU diesel engine U.S.A. EPA Tier 4 conforming 2-stage turbo-charged model 1,450 kW (1,971 PS)
- MTU diesel engine Fuel Consumption Optimization (FCO) single stage turbo-charged model 1,450 kW (1,971 PS)

**HITACHI AC ELECTRIC MOTOR**

The EX3600-7E electric excavator is available, operating with the Hitachi AC electric motor

Options:

- Electric motor (1,200 kW)
  - 50 Hz: 6,000 V, 6,600 V
  - 60 Hz: 6,600 V, 7,200 V

*Please contact Hitachi for other specification request.

**SUSTAINABILITY**

Designed for sustainable operations, Hitachi’s energy optimization technologies balance efficiency with environmental responsibility. The EX3600-7 features a range of engine configurations and advanced hydraulic systems, ensuring a reduction in consumption costs while maintaining superior productivity. With features like electric regulators, hydraulic regeneration circuits, and enhanced oil coolers, the EX3600-7 delivers a sustainable solution that doesn’t compromise on performance.
Equipped with more than 100 years of technological innovation from Hitachi, Ltd. group companies, our EX-7 excavators are engineered to achieve more for your mine site.

The EX3600-7 delivers exceptional around-the-clock performance while optimizing consumption, taking productivity to a new level.

**FRONT ATTACHMENT**

With a front attachment design that prioritizes performance, the EX3600-7 can achieve superior productivity under different digging profiles.

The boom and arm are strategically welded, utilizing a full-box section design to evenly distribute stress and provide ease of maintenance.

**LOADING SHOVEL**

The Loading Shovel attachment is equipped with an auto-leveling crowd mechanism that controls the bucket at a constant angle. The EX3600-7 now has a larger 22m³ bucket, designed to enhance loading capability with a tilt angle that enhances operational efficiency.

**BACKHOE**

The Backhoe attachment is designed using computer-aided box frame analysis to determine the optimal structure for integrity and longevity. Complete with a floating pin and bush, the bucket has been designed to match the geometry of the attachment to maximize productivity.
designed for SAFETY

Safety is Hitachi’s ultimate priority, realized in the EX-7 series of excavators with a range of intelligent safety-focused designs.

The EX3600-7 includes spacious walkways, improved handrails, and important safety features like an on-board inclinometer and dual isolator switch as standard.
Hitachi’s EX3600-7 maximizes productivity by giving operators complete comfort and control in the cab. Features include ergonomic layout, electronic joysticks, intelligent Multi-Functional Display, advanced air suspension seating, and better climate control to make for effortless operation.

**OPERATOR CABIN**

The use of laminated tinted windows reduce heat and glare in the cab, while sound-suppression further enhances ergonomics and comfort for the operator.

The Level II Operator Protective Guard (OPG) provides secure protection from falling objects, ensuring operator safety.

**CLIMATE CONTROLLED AIR CONDITIONING**

The pressurized cab’s climate controlled air conditioning helps to overcome environmental extremes. Optimized filtering of interior and exterior air combined with the new flexi-vent system provides a personalized and balanced environment that meets operator demands.

**OPERATOR SEAT**

Specifically designed for use in the mining industry, the automatic weight-adjusting air suspension seat calculates optimal cushioning to match the operator’s weight, enhancing comfort and minimizing vibration.

**ELECTRONIC JOYSTICKS**

Integrated electronic joysticks connected to the machine’s microprocessor enable precise and almost effortless operation, minimizing operator fatigue and improving operational performance.

**ROLL SCREENS**

Retractable front and side roll screens protect the operator from UV glare and reduce heat buildup in the cab, improving the efficiency of the climate controlled air conditioner for a superior operating environment.

**MULTI-FUNCTIONAL DISPLAY**

Fitted with an LED back-light to improve clarity and reduce glare, the multi-functional display provides key machine information and performance indicators through use of an integrated dial switch interface.
Hitachi’s EX-7 series of excavators are now easier and safer to maintain than ever before with an intuitive design. The EX3600-7 features a spacious modular layout with open passageways and work platforms to simplify daily upkeep and major component inspections.

**CENTRALIZED LUBRICATION SYSTEM**

The centralized fast-filling system provides easy access from the ground to refill and evacuate lubricants, water, grease and fuel. The fast-filling system can be fitted with an optional quick coupler.

**GREASE-LESS CENTER JOINT**

The new center joint employs the machine’s hydraulic oil to self-lubricate, reducing the need for daily maintenance.

**LUBRICATION PIPING COVER**

A swing circle cover has been added to the outside of the swing bearing, protecting the lubrication piping from debris damage.

**CENTRALIZED LUBRICATION SYSTEM**

The centralized fast-filling system provides easy access from the ground to refill and evacuate lubricants, water, grease and fuel. The fast-filling system can be fitted with an optional quick coupler.

**AUTO-LUBRICATION SYSTEM**

A new auto-lubrication system comes with 500 L large capacity grease tank, new grease pump, in-line grease filter with breather, grease level indicator in cab and provision for fitment of a second grease pump in the lubrication tank. These features provide a more reliable system with less downtime.

**MAINTENANCE ACCESS**

Wide center walkways and open service areas offer ease of access for daily maintenance tasks and make engine, hydraulic, and electrical component inspections easy.

**CONTAMINATION SENSORS**

Contamination sensors are located on main hydraulic pumps, travel motors and swing motors to detect any contaminants that may cause damage to the hydraulic system. Sensors alert the operator of potential contaminants and record the fault code in the Data Logging Unit (DLU) with the capability to remotely advise maintenance personnel.

**EASE OF MAINTENANCE**

**designed for**

Hitachi’s EX-7 series of excavators are now easier and safer to maintain than ever before with an intuitive design. The EX3600-7 features a spacious modular layout with open passageways and work platforms to simplify daily upkeep and major component inspections.
Hitachi’s EX-7 excavators have been built to withstand the harshest mining conditions while delivering outstanding productivity. Advanced computer modelling, specialized forgings, and pedestal design track shoes are just some of the features that make the EX3600-7 one of the most durable excavators on the market.

**UPPER ROLLERS**

The EX3600-7 undercarriage has three double-sided, pedestal-designed upper rollers on each side of the track frame. These rollers maintain track shoe clearance and provide protection from debris buildup, reducing shoe and roller wear for a more reliable undercarriage system.

**OIL-FILLED ROLLERS & IDLERS**

The oil-filled idlers and upper and lower rollers eliminate the need for daily lubrication, helping reduce maintenance costs.

**CENTER TRACK FRAME**

Hitachi’s exclusive center track frame delivers optimal stress dispersion through the use of specially designed forged steel parts to reduce the chance of failure in critical high-stress areas. This guarantees a stronger frame with improved durability.

**TRACK SHOES**

Hitachi’s classic track shoe design has been applied to mitigate premature wear of the drive-lugs. Each shoe is induction hardened using Hitachi’s proven methods to deliver a superior and more durable solution.

**CENTER FRAME UNDERGUARD (OPTIONAL)**

A newly designed heavy duty guard protects hoses and accumulators located in the track center frame from rocks and debris ingress, providing extra protection and reliability.

**RIGID BOX DESIGN**

Computer assisted analysis has been used to determine the most effective design for frame longevity, ensuring the EX3600-7 withstands the demands of any mining operation.
Hitachi’s EX-7 series is loaded with intelligent features which minimize downtime and optimize excavator longevity. The EX3600-7 is meticulously designed to provide a reliable solution every hour of the day.

**designed for RELIABILITY**

Hitachi’s EX-7 series is loaded with intelligent features which minimize downtime and optimize excavator longevity. The EX3600-7 is meticulously designed to provide a reliable solution every hour of the day.

**FRONT ATTACHMENT HOSES**
Hitachi’s hose design has been tested on a high cyclic fatigue rate to maximize longevity and improve safety. Front attachment hoses have been rearranged from the traditional arch style to an underslung configuration, removing the need for clamping, reducing chafing and increasing reliability.

**CAB RISER PRESSURIZER**
The cab riser now features a pressurizer system to reduce dust infiltration, extending the service life of the electronic components and devices within.

**SOLID CONDUIT WIRE HARNESSES**
Newly introduced solid conduit harnesses and junction boxes prevent dust and moisture ingress, improving longevity. Electrical harnesses between junction boxes can be replaced individually, reducing maintenance time and cost.

**OPERATING LIGHTS**
Strategically placed long-life LED working lights provide assured reliability for night operations.

**ELECTRONIC CYLINDER STROKE CONTROL**
The new on-board electronic controller receives signals from angle sensors fitted to the main frame, boom and arm to control the pump flow rate and cylinder speed. Shock at stroke end of the cylinder cycle is reduced, improving operator comfort and lowering impact on cylinders and structures for more reliable operation.
designed for INTELLIGENCE

Hitachi’s EX-7 excavators are leading the mining industry toward smarter operations that can achieve more than ever before. On-board sensors, diagnostic tools, real-time data and intelligent software empower mine sites to operate the EX3600-7 to its full potential.

Global e-Service

Global e-Service is a Hitachi web-based platform that sends vital machine information directly to the customer in a readily accessible format.

WIRELESS INTERFACE

Detailed machine information can be remotely downloaded from the Data Logging Unit (DLU) via the Wireless Interface Unit (WIU), providing vital operational & performance data.

SATELLITE / GPRS COMMUNICATION (OPTIONAL)

Standard machine information is transmitted daily through either satellite or GPRS (General Packet Radio Service) communication, sending data directly to the Hitachi Global e-Service platform to support the mining operation.

FLEET MANAGEMENT SYSTEM

The DLU can be combined with Wenco or another third party fleet management system to provide live operational and performance information, assisting with fleet management.

Aerial Angle (OPTIONAL)

Aerial Angle provides the operator with a 360° live view around their excavator. Cameras strategically mounted on the machine generate a single aerial view of the EX3600-7 surroundings. Multiple screen display options can be selected on the cab’s 7-inch Aerial Angle monitor for ease of operation.
Before using a machine with a satellite communication system or telecommunication system, please make sure that the satellite communication system or telecommunication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator’s Manual for proper operation.

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**SPECIFICATIONS**

**WORKING RANGES**

**Loading Shovel**
- Bucket Capacity: 22.0 m³
- Minimum Digging Distance: 6.180 mm
- Minimum Level Crowding Distance: 9.330 mm
- Level Crowding Distance: 5.080 mm
- Maximum Digging Reach: 15.860 mm
- Maximum Cutting Height: 16.750 mm
- Maximum Dumping Height: 10.980 mm
- Maximum Dumping Depth: 4.350 mm
- Maximum Working Radius at Maximum Dumping Height: 8.650 mm
- Maximum Bucket Opening Width: 1.950 mm
- Arm Crowding Force on Ground: 1190 kN
- Bucket Ripping Force: 1020 kN

**Backhoe**
- BE Boom Length: 9.6 m
- BE Arm Length: 4.5 m
- Bucket Capacity (ISO heaped): 22.0 m³
- Maximum Digging Reach: 18.240 mm
- Maximum Digging Reach (on ground): 17.660 mm
- Maximum Cutting Height: 17.710 mm
- Maximum Dumping Height: 11.540 mm
- Minimum Dumping Height: 4.980 mm
- Minimum Swing Radius: 8.560 mm
- Minimum Vertical Wall: 4.180 mm
- Maximum Dumping Height (ISO): 1050 kN
- Arm Crowding Force (ISO heaped): 981 kN

**DIMENSIONS**

- Shoe Width: 1270 mm
- Weight: 370 000 kg
- Ground Pressure: 194 kPa (1.98 kgf/cm³)

**PASS MATCH**
- Best match: 4–6 passes
- Potential match: 3–8 passes

**UPPER STRUCTURE**
- Swing Speed: 3.2 min⁻¹ (rpm)
- Fuel Tank Capacity: 7 450 L
- DEF Tank Capacity: 475 L

**HYDRAULIC SYSTEM**
- Main Pumps: 8 variable-displacement, axial piston pumps
- Pressure Setting: 29.4 MPa (300 kgf/cm²)
- Max. Oil Flow: 8 X 500 L/min

**UNDERCARRIAGE**
- Travel Speeds: High: 0 to 2.2 km/h, Low: 0 to 1.7 km/h
- Maximum Traction Force: 1760 kN (179 000 kgf)
- Gradeability: 58% (30 degree)

**WEIGHTS AND GROUND PRESSURE**

**Loading Shovel**
- Bucket Capacity: 22.0 m³ (ISO heaped) bottom dump bucket
- Shoe Width: 1270 mm
- Weight: 369 000 kg
- Ground Pressure: 193 kPa (1.97 kgf/cm³)

**Backhoe**
- Bucket Capacity: 22.0 m³ (ISO heaped)
- Shoe Width: 1270 mm
- Weight: 370 000 kg
- Ground Pressure: 194 kPa (1.98 kgf/cm³)

**ATTACHMENTS**
- Loading Shovel: 22.0 m³; Material density 1 800 kg/m³ or less
- Backhoe: 22.0 m³; Material density 1 800 kg/m³ or less

**ENGINE**
- Cummins QS KTA60-CE (FCO, T4F)
- ISO 14396: 1 450 kW (1 971 PS)
- Piston Displacement: 60.0 L

**ENVIRONMENT**
- Auto control air conditioner contains fluorinated greenhouse gases.
- Refrigerant type: HFC-134a, GWP: 1430, Amount: 2.85 kg, CO2e: 4.08 ton.