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› Könnér & Söhnen KS 8100HDE-1/3 ATSR Diesel Generator User Manual

## K&S Könnér&Söhnen KS 8100HDE-1/3 ATSR

# Könnér & Söhnen KS 8100HDE-1/3 ATSR Diesel Generator User Manual

Model: KS 8100HDE-1/3 ATSR

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your Könnér & Söhnen KS 8100HDE-1/3 ATSR Diesel Generator. This 4-stroke diesel generator features a 14 HP engine, a preheater for easy starting, and an automatic voltage regulator (AVR) for stable power output. It is designed for both private and commercial use, offering 6500/5300 watts of power with 1 x 16 A (400 V) and 1 x 32 A (230 V) outlets. Please read this manual thoroughly before operating the generator.

## 2. SAFETY INSTRUCTIONS

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**WARNING:** Failure to follow these safety instructions can result in serious injury or death.

- **Carbon Monoxide Hazard:** Never operate the generator indoors or in poorly ventilated areas. Exhaust fumes contain carbon monoxide, a colorless, odorless, and deadly gas.
- **Fire Hazard:** Diesel fuel is flammable. Refuel in a well-ventilated area with the engine off and cool. Do not smoke or use open flames near the generator.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded. Use only approved extension cords.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for some time after shutdown. Avoid contact to prevent burns.
- **Moving Parts:** Keep hands, feet, and clothing away from moving parts to prevent injury.
- **Children and Pets:** Keep children and pets away from the generator at all times.
- **Personal Protective Equipment:** Wear appropriate safety gear, including eye protection and hearing protection, when operating the generator.

## 3. PRODUCT OVERVIEW

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Familiarize yourself with the components of your KS 8100HDE-1/3 ATSR diesel generator.



**Figure 3.1:** Overall view of the Könnor & Söhnen KS 8100HDE-1/3 ATSR Diesel Generator, showcasing its robust steel frame and main components.

## Control Panel

The control panel provides access to all necessary functions for starting, operating, and monitoring the generator.



**Figure 3.2:** Close-up of the control panel, showing the digital voltmeter, AC circuit breakers, 400V and 230V outlets, starter switch, and indicator lights for heat and oil alert.

### VTS Phase Switching System

The Voltage Transfer Switch (VTS) allows you to switch between 400V (three-phase) and 230V (single-phase) operation without power loss.



**Figure 3.3:** Detail of the VTS switch, indicating positions for AC 400V, Off (0), and AC 230V.

### Anti-Vibration System

The generator is equipped with an anti-vibration system to minimize noise and extend component lifespan.



**Figure 3.4:** Close-up of an anti-vibration mount, showing how it isolates the generator from the frame.

## 4. SETUP

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1. **Unpacking:** Carefully remove the generator from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the generator on a firm, level surface in a well-ventilated outdoor area, away from windows, doors, and vents. Ensure at least 1 meter of clear space around the generator.
3. **Add Engine Oil:** The generator is shipped without engine oil. Fill the crankcase with the recommended diesel engine oil (refer to specifications for type and capacity). Do not overfill.
4. **Add Diesel Fuel:** Fill the fuel tank with clean diesel fuel. Do not use gasoline. Ensure the fuel cap is securely tightened.
5. **Battery Connection:** Connect the battery terminals, ensuring correct polarity (red to positive, black to negative).
6. **Grounding:** Connect the generator to a proper earth ground using a heavy-gauge wire.

## 5. OPERATING INSTRUCTIONS

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### Starting the Generator (E-Start)

1. Ensure all connected appliances are turned off or unplugged from the generator.
2. Turn the fuel valve to the "ON" position.
3. If operating in cold conditions, activate the fuel preheater (if equipped and necessary).
4. Insert the key into the starter switch and turn it to the "START" position. Release the key once the engine starts.
5. Allow the engine to warm up for a few minutes before connecting electrical loads.

### Using the VTS Phase Switching System

The VTS system allows you to select the desired voltage output.

- To switch between 400V and 230V, ensure the generator is running without load.
- Turn the VTS switch to the desired position (AC 400V or AC 230V).
- Connect your appliances to the appropriate outlets.

### Stopping the Generator

1. Disconnect all electrical loads from the generator.
2. Allow the engine to run for a few minutes without load to cool down.
3. Turn the starter switch to the "OFF" position.
4. Turn the fuel valve to the "OFF" position.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your generator.

### Maintenance Schedule

| Item                   | Before Each Use | Every 50 Hours / Monthly | Every 200 Hours / Annually |
|------------------------|-----------------|--------------------------|----------------------------|
| Check Engine Oil Level | ✓               |                          |                            |
| Check Fuel Level       | ✓               |                          |                            |
| Clean Air Filter       |                 | ✓                        |                            |
| Change Engine Oil      |                 | ✓                        |                            |
| Check Fuel Filter      |                 |                          | ✓                          |
| Inspect Spark Plug     |                 |                          | ✓                          |

### Storage

For long-term storage, drain the fuel tank and carburetor. Change the engine oil. Store the generator in a clean, dry place, protected from dust and moisture.

## 7. TROUBLESHOOTING

| Problem               | Possible Cause                                                     | Solution                                                                             |
|-----------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Engine does not start | No fuel; Low oil level; Battery discharged; Starter switch faulty. | Add fuel; Fill engine oil to correct level; Charge/replace battery; Contact service. |
| No power output       | Circuit breaker tripped; VTS switch in "0" position; Overload.     | Reset circuit breaker; Set VTS switch to 400V or 230V; Reduce load.                  |
| Engine runs rough     | Dirty air filter; Contaminated fuel; Incorrect oil level.          | Clean/replace air filter; Drain and refill with fresh fuel; Adjust oil level.        |
| Oil alert light on    | Low engine oil level.                                              | Check and add engine oil to the correct level.                                       |

## 8. SPECIFICATIONS

| Feature            | Detail                              |
|--------------------|-------------------------------------|
| Model              | KS 8100HDE-1/3 ATSR                 |
| Brand              | K&S Könnor&Söhnen                   |
| Engine Type        | 4-stroke Diesel                     |
| Max Engine Power   | 6.5 Kilowatt (14 HP)                |
| Rated Output Power | 6500 Watt (400V) / 5300 Watt (230V) |
| Starting Power     | 6500 Watt                           |

| Feature                | Detail                                                                                                                                                                                                        |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Running Power          | 6500 Watt                                                                                                                                                                                                     |
| Voltage                | 400 Volt / 230 Volt                                                                                                                                                                                           |
| Frequency              | 50 Hz                                                                                                                                                                                                         |
| Fuel Type              | Diesel                                                                                                                                                                                                        |
| Ignition System        | Electric Start                                                                                                                                                                                                |
| Special Features       | VTs-phase switching system, E-start, Fuel preheater, Automatic Voltage Regulator (AVR), Oil shortage protection, Overload switch, Reinforced steel frame, Anti-vibration system, Galvanic surface protection. |
| Item Weight            | 117 Kilogram                                                                                                                                                                                                  |
| Dimensions (L x W x H) | 73L x 49.5W x 63H centimeter                                                                                                                                                                                  |
| Run Time (Engine)      | 3000 hours (expected lifespan)                                                                                                                                                                                |

## 9. WARRANTY AND SUPPORT

Könner & Söhnen products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Könner & Söhnen website.

For technical support, spare parts, or service inquiries, please contact your authorized dealer or the Könner & Söhnen customer service department. Keep your purchase receipt and product serial number handy when contacting support.

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