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## Faithfull FAIPP700LS

# Faithfull Long Series HSS Jobber Drill User Manual

Model: FAIPP700LS

## INTRODUCTION

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This manual provides essential information for the safe and effective use of your Faithfull Long Series HSS Jobber Drill. Please read this manual thoroughly before operation and retain it for future reference.

## PRODUCT OVERVIEW

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### Description

Faithfull 'Professional' High Speed Steel (HSS) drill bits are manufactured from high quality M2 grade tool steel, meeting the requirements of the DIN 340 standard. Each bit features a fully ground flute and cutting tip, with a 135-degree point angle and split point for easy non-slip starting and precision drilling. These features contribute to superior performance across various materials.

### Key Features

- High Speed Steel (HSS) construction for durability.
- Fully ground flute and cutting tip for precision.
- 135-degree point angle and split point for non-slip starting.
- Suitable for drilling in Alloy Steels, Carbon Steels, Cast Iron, Hardened Alloy Steels, and Stainless Steels.



Image: A single Faithfull Long Series HSS Jobber Drill Bit, silver-colored, with a spiral flute design, shown against a white background. The drill bit is designed for precision drilling in various metal types.

## SPECIFICATIONS

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Attribute	Detail
Material	High Speed Steel (HSS)
Cutting Diameter	7 Millimeters
Finish Type	HSS
Shank Type	Straight
Cutting Angle	135 Degrees
Overall Length (OL)	156mm (approx. 6.14 inches)
Working Length (WL)	102mm (approx. 4.01 inches)
Item Weight	1.44 ounces
Tool Flute Type	Spiral
Point Style	Split point, Tip

Attribute	Detail
Surface Recommendation	Metal (Alloy Steels, Carbon Steels, Cast Iron, Hardened Alloy Steels, Stainless Steels)
Item Package Quantity	1
Measurement System	Metric
Model Number	FAIPP700LS

## SETUP

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The Faithfull HSS Jobber Drill is designed for immediate use with compatible drilling equipment. No assembly is required for the drill bit itself.

- Select Appropriate Drill:** Ensure your drill (corded or cordless) is compatible with a 7mm straight shank drill bit.
- Secure the Drill Bit:**
  - Open the drill chuck jaws sufficiently to insert the drill bit.
  - Insert the straight shank of the 7mm drill bit into the chuck, ensuring it is seated as deeply as possible without touching the back of the chuck.
  - Tighten the chuck securely, either by hand or with a chuck key, depending on your drill model. Ensure the bit is centered and firmly gripped to prevent slippage during operation.
- Prepare Workpiece:** Secure the material to be drilled using clamps or a vise to prevent movement during drilling. Mark the drilling location clearly.
- Safety Gear:** Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, before starting any drilling operation.

## OPERATING INSTRUCTIONS

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Follow these steps for effective and safe drilling:

- Initial Positioning:** Position the tip of the drill bit precisely on the marked drilling point. The split point design helps prevent walking.
- Start Drilling:** Begin drilling at a slow speed to allow the bit to engage the material. Gradually increase speed as the bit penetrates.
- Apply Consistent Pressure:** Apply steady, even pressure. Avoid excessive force, which can overheat the bit or material, or cause breakage.
- Clear Chips:** For deeper holes, periodically withdraw the drill bit from the hole to clear chips and allow the bit to cool. This prevents chip buildup and improves cutting efficiency.
- Use Lubricant/Coolant:** When drilling metals, especially harder alloys or stainless steel, use an appropriate cutting fluid or lubricant. This reduces friction, dissipates heat, and extends the life of the drill bit.
- Maintain Speed:** Adjust drilling speed based on the material. Harder materials generally require slower speeds, while softer materials can tolerate higher speeds.
- Complete the Hole:** Once the desired depth is reached, maintain rotation as you withdraw the drill bit from the hole to prevent snagging.

**Important:** Always ensure the drill bit is sharp. A dull drill bit can cause excessive heat, poor hole quality, and increased risk of breakage.

## MAINTENANCE

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Proper maintenance ensures the longevity and performance of your drill bit.

- **Cleaning:** After each use, clean the drill bit to remove any metal chips, dust, or residue. A wire brush can be used for stubborn debris.
- **Lubrication/Protection:** Apply a light coat of machine oil or rust preventative to the drill bit after cleaning, especially if storing for extended periods, to prevent corrosion.
- **Sharpening:** Regularly inspect the cutting edges for dullness or damage. A dull bit will generate more heat and cut less efficiently. Sharpen the drill bit using a suitable drill bit sharpener or by hand with a grinding wheel, maintaining the original 135-degree point angle and split point geometry.
- **Storage:** Store drill bits in a dry environment, preferably in a drill bit index or case, to protect them from damage and corrosion.
- **Inspection:** Before each use, inspect the drill bit for any signs of cracks, bends, or excessive wear. Do not use damaged drill bits.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Drill bit not cutting / excessive heat	Dull cutting edge; Incorrect speed/feed; No lubricant (for metal)	Sharpen or replace bit; Adjust speed/feed; Apply cutting fluid
Hole is oversized or rough	Worn cutting edges; Excessive pressure; Bit wobble in chuck	Sharpen/replace bit; Reduce pressure; Re-seat bit securely in chuck
Drill bit "walking" on surface	No pilot hole; Insufficient pressure; Bit not centered	Use a center punch; Apply firm initial pressure; Ensure bit is centered
Bit breakage	Excessive side pressure; Overheating; Material too hard; Bit is dull/damaged	Maintain straight pressure; Use coolant; Verify material compatibility; Sharpen/replace bit

## WARRANTY AND SUPPORT

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Faithfull products are manufactured to high standards. For specific warranty information or technical support regarding your Faithfull Long Series HSS Jobber Drill, please refer to the packaging or contact Faithfull customer service directly.

**Manufacturer:** Faithfull

**Part Number:** FAIPP700LS

**EU Spare Part Availability Duration:** 1 Years (as per product data)

For further assistance, please visit the official Faithfull website or contact your local distributor.

