harrison 11 lathe manual

harrison 11 lathe manual is an essential resource for machinists and enthusiasts seeking to understand the operation, maintenance, and troubleshooting of the Harrison 11 lathe. This manual serves as a comprehensive guide, detailing everything from the basic components to advanced operational techniques. In this article, we will explore the key features of the Harrison 11 lathe, provide insights into its maintenance routines, and offer troubleshooting tips for common issues. Additionally, we will delve into the specifications of the lathe and highlight its applications in various industries. This guide will be invaluable for both new users and seasoned machinists who wish to optimize their workflow and prolong the lifespan of their equipment.

Overview of the Harrison 11 Lathe

The Harrison 11 lathe is a highly regarded machine tool in the machining community, known for its reliability and precision. Designed for both hobbyists and professionals, this lathe is versatile enough to handle a wide range of tasks. It is particularly favored for its robust construction and user-friendly interface, making it accessible for users with varying levels of experience.

One of the standout features of the Harrison 11 lathe is its capacity to perform various operations, including turning, facing, and threading. The lathe is designed for efficiency, allowing users to complete projects with minimal downtime. The robust motor and precision components ensure that projects are completed to exact specifications, which is critical in professional settings.

Key Features and Specifications

Essential Specifications

The Harrison 11 lathe comes with a host of specifications that make it a reliable choice for many applications. Here are some of the key specifications:

- Swing Over Bed: 11 inches
- Distance Between Centers: 30 inches
- Spindle Speed Range: 0 to 2000 RPM
- Motor Power: 1 HP
- Threading Capabilities: Various options, including metric and imperial threads

Design and Build Quality

The design of the Harrison 11 lathe emphasizes both functionality and durability. The bed is constructed from high-quality cast iron, which minimizes vibrations and enhances stability during operations. This rigid construction contributes to the precision of the lathe, allowing for fine tolerances in machining operations.

Additionally, the lathe features a conveniently positioned control panel, which simplifies operation. The controls are intuitive, allowing users to quickly adjust settings as needed. The inclusion of a tailstock and tool post further enhances the versatility of the machine.

Maintenance Procedures

Regular Maintenance Tasks