

# Haas St 30 Parts Manual

[ Special Series ]

Haas ST-30 Y-Axis Lathes

The High-Performance Turning Centers



1. 3 400-rpm high-torque spindle; 22,4kW vector drive

2. 4 500-rpm high-speed spindle; 22,4kW vector dual drive

3.  $\pm 51$  mm Y-axis travel for off-center milling, drilling and tapping

4. ISO standard G-code programming through the user-friendly, full-function Haas CNC control or use the optional Intuitive Programming System

5. Belt-type chip conveyor available

Warranty: 1 Year Parts and Labor

[ Standard Features ]

- 254 mm Hydraulic Chocking System
- A2-6 Spindle Nose
- 76 mm Bar Capacity
- $\pm 51$  mm Y-Axis Travel
- 6 000-rpm Live Tooling with C Axis
- 15" Color LCD Monitor w/USB Port
- 1 MB Program Memory
- Rigid Tapping
- Made in the USA

[ ST-30Y ]

- 457 x 584 mm Max Capacity
- 3400-rpm Spindle
- 22,4 kW Vector Drive
- 12-Station BOT Turret

[ ST-30SSY ]

- 406 x 584 mm Max Capacity
- 4500-rpm Spindle
- 22,4 kW Vector Drive
- 24-Station BOT/VDI Turret

[ Options ] *partial list*

- Programmable Hydraulic Tailstock
- High-Pressure Coolant Systems
- Automatic Tool Presetter System
- Belt-Type Chip Conveyor
- Ethernet Interface
- Haas Intuitive Programming System
- Haas Bar Feeder
- Parts Catcher
- Servo Auto Door



Haas Automation Europe | [www.HaasCNC.com](http://www.HaasCNC.com) | +32 2 522 99 05 | Made in U.S.A.

Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment.

**Haas ST 30 parts manual** is an essential resource for anyone who operates or maintains the Haas ST 30 CNC lathe. Understanding the intricacies of the components and their functionalities is critical for optimizing machine performance, ensuring safety, and minimizing downtime. This guide will delve into the details of the Haas ST 30 parts manual, covering its importance, key components, maintenance tips, and troubleshooting guidelines.

# Importance of the Haas ST 30 Parts Manual

The Haas ST 30 is a versatile turning center widely used in various industries for precision machining tasks. The parts manual serves multiple purposes:

- **Reference Tool:** It provides a comprehensive overview of all the parts within the machine, including diagrams and part numbers.
- **Maintenance Guidance:** The manual outlines maintenance procedures, helping operators perform regular upkeep and avoid costly repairs.
- **Troubleshooting Aid:** In the event of a malfunction, the manual can assist in diagnosing issues by identifying potential problem areas.
- **Parts Ordering:** When replacement parts are needed, the manual simplifies the ordering process by providing accurate part numbers and specifications.

## Overview of the Haas ST 30 CNC Lathe

The Haas ST 30 is engineered for precision and efficiency. Here are some key specifications:

- **Max Turning Diameter:** 16 inches
- **Max Turning Length:** 30 inches
- **Spindle Speed:** Up to 3,400 RPM
- **Motor Power:** 30 HP
- **Tool Capacity:** Up to 12 tools

These specifications make the ST 30 suitable for a wide range of applications, from small batch production to large-scale machining projects.

# Key Components Covered in the Parts Manual

The Haas ST 30 parts manual provides detailed information on numerous components. Some of the most critical parts include:

## 1. Spindle Assembly

The spindle assembly is the heart of the lathe, responsible for holding and rotating the workpiece. The manual includes:

- Spindle motor specifications
- Replacement instructions for bearings
- Lubrication guidelines

## 2. Tool Holder and Turret

The tool holder and turret allow for quick changes between different tools. The manual covers:

- Tool holder specifications
- Installation and removal procedures
- Maintenance tips to prolong tool life

## 3. Control System

The control system manages the lathe's operations and programming. The parts manual details:

- Control panel layout
- Electrical components and wiring diagrams

- Troubleshooting common control issues

## 4. Cooling System

The cooling system is vital for maintaining operational temperatures during machining. The manual includes:

- Types of coolant used
- Coolant system maintenance
- Replacing coolant filters

## 5. Chucks and Fixtures

Chucks and fixtures secure the workpiece during machining. The manual provides:

- Types of chucks compatible with the ST 30
- Installation instructions
- Care and maintenance tips

# Maintenance Tips for the Haas ST 30

Regular maintenance is crucial for the longevity and efficiency of the Haas ST 30. Here are some essential maintenance practices based on the parts manual:

## 1. Daily Maintenance

Implementing a daily maintenance routine can help catch potential issues early. Daily tasks should include:

- Checking coolant levels and topping up as necessary.
- Inspecting for any signs of wear or damage on visible components.
- Cleaning the machine's exterior to prevent debris buildup.

## **2. Weekly Maintenance**

Weekly maintenance should focus on more in-depth checks. Tasks include:

- Lubricating moving parts according to the specifications in the parts manual.
- Inspecting the spindle for abnormal noises or vibrations.
- Checking the tool holder and turret for tightness and wear.

## **3. Monthly Maintenance**

Monthly maintenance can help ensure the machine operates optimally. Suggested activities include:

- Replacing coolant filters and ensuring the cooling system is functioning correctly.
- Conducting a thorough inspection of electrical connections and wiring.
- Performing a software update if needed.

## **Troubleshooting Common Issues**

Even with regular maintenance, issues may arise. The Haas ST 30 parts manual provides valuable troubleshooting steps for common problems:

## 1. Spindle Not Rotating

If the spindle fails to rotate, check the following:

- Power supply to the spindle motor.
- Control system settings for any errors.
- Physical obstructions that might be preventing movement.

## 2. Inconsistent Cutting Quality

Inconsistent cutting can lead to poor product quality. To address this:

- Inspect the tool for wear or damage.
- Check the alignment of the workpiece and tool.
- Ensure the correct cutting speed and feed rate are being used.

## 3. Overheating

If the machine is overheating, consider these steps:

- Check coolant levels and circulation.
- Inspect the cooling system for clogs or leaks.
- Verify that the machine is not overloaded.

## Conclusion

The **Haas ST 30 parts manual** is an invaluable tool for operators and maintenance personnel. By

understanding the parts, following maintenance guidelines, and utilizing troubleshooting tips, users can maximize the performance and longevity of their Haas ST 30 CNC lathe. Regularly consulting the parts manual not only aids in efficient operation but also contributes to a safer working environment. Whether you are a seasoned operator or new to CNC machining, familiarizing yourself with the parts manual is a step towards ensuring success in your machining endeavors.

## **Frequently Asked Questions**

### **What is the purpose of the Haas ST 30 parts manual?**

The Haas ST 30 parts manual provides detailed information about the components and parts of the ST 30 CNC lathe, including diagrams, part numbers, and descriptions to aid in maintenance and repair.

### **Where can I find the Haas ST 30 parts manual?**

The Haas ST 30 parts manual can be found on the official Haas Automation website, or by contacting Haas customer support for a physical copy.

### **Does the Haas ST 30 parts manual include troubleshooting tips?**

Yes, the Haas ST 30 parts manual typically includes troubleshooting tips and maintenance guidelines to help users resolve common issues.

### **Is the Haas ST 30 parts manual available in digital format?**

Yes, the Haas ST 30 parts manual is available in PDF format for easy access and download from the Haas Automation website.

### **What type of information can I expect to find in the Haas ST 30 parts manual?**

You can expect to find parts lists, assembly diagrams, part numbers, specifications, and maintenance instructions in the Haas ST 30 parts manual.

### **Can the Haas ST 30 parts manual help with ordering replacement parts?**

Yes, the manual provides part numbers and descriptions that are essential for ordering the correct replacement parts for the Haas ST 30.

### **Is there a difference between the Haas ST 30 and ST 30Y parts manuals?**

Yes, the Haas ST 30 and ST 30Y parts manuals differ in that the ST 30Y includes additional components related to the Y-axis, whereas the ST 30 is a standard lathe without this feature.

## How often should I refer to the Haas ST 30 parts manual?

You should refer to the Haas ST 30 parts manual regularly for maintenance checks, repairs, and when ordering parts to ensure proper machine function.

## Are updates to the Haas ST 30 parts manual provided by Haas Automation?

Yes, Haas Automation periodically updates the parts manual to reflect changes in parts and components, and users are encouraged to check for the latest version.

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