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› [Bullard](#) /

› Bullard Dynatrol Vertical Turret Lathe Instruction Manual

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Bullard Dynatrol Vertical Turret Lathe Instruction Manual

Comprehensive guide for operation and maintenance.

INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of the Bullard Dynatrol Vertical Turret Lathe. It covers essential procedures, setup guidelines, operational techniques, maintenance schedules, and troubleshooting tips to ensure optimal performance and longevity of your machine. Please read this manual thoroughly before operating the equipment.



389

Image: Cover of the Bullard Dynatrol Vertical Turret Lathe Operators Instruction Manual. This image displays the front cover of the manual, indicating the product and its purpose.

SETUP

Proper setup is crucial for the safe and accurate operation of the Dynatrol Vertical Turret Lathe. Ensure the machine is placed on a level, stable surface and connected to the appropriate power supply according to local electrical codes.

Initial Inspection

- Verify all shipping restraints have been removed.
- Check for any visible damage incurred during transit.
- Confirm all components are present as per the packing list.

Power Connection

Connect the machine to a power source matching the voltage and phase requirements specified on the machine's nameplate. Consult a qualified electrician if unsure.

OPERATING INSTRUCTIONS

This section details the various operational aspects of the Bullard Dynatrol Vertical Turret Lathe.

General Operation

Familiarize yourself with the control panel and emergency stop procedures before starting any operation. Always wear

appropriate personal protective equipment (PPE).

Machining Angles

The Dynatrol Lathe allows for precise machining of various angles. Refer to the specific charts for setting up the tool head and workpiece for desired angular cuts.

Size-Au-Trol Operation

The Size-Au-Trol system provides automated size control for repetitive machining tasks. Calibrate the system according to the workpiece dimensions and desired tolerances. Consult the dedicated section in the original manual for detailed calibration steps.

T.D.A. Attachment Operation

Instructions for operating the T.D.A. (Tool Diameter Adjustment) Attachment are provided to assist in fine-tuning tool positions and diameters. Ensure the attachment is securely mounted and calibrated before use.

Thread Cutting Charts

This manual includes comprehensive English and Metric Thread Cutting Charts. Use these charts to determine the correct gear settings and tool angles for cutting various thread types. Always double-check settings before initiating a thread cutting operation.

Example Chart Structure (refer to physical manual for actual values):

Partial English Thread Cutting Chart Example

Threads Per Inch (TPI)	Gear A	Gear B	Lead Screw Pitch
8	40	60	4
10	30	50	4

Drum Scoring Charts

The English and Metric Drum Scoring Charts provide guidelines for setting up the machine to perform scoring operations on drums. Follow the chart specifications for accurate depth and spacing.

Angular Turning Gear Charts

Refer to the English and Metric Angular Turning Gear Charts for the correct gear configurations required for precise angular turning operations. These charts are essential for achieving specific taper angles and complex profiles.

MAINTENANCE

Regular maintenance is vital for the longevity and optimal performance of your Bullard Dynatrol Vertical Turret Lathe. Adhere to the recommended maintenance schedule.

Daily Checks

- Inspect coolant levels and replenish if necessary.
- Check for any unusual noises or vibrations during operation.
- Clean chips and debris from the work area and machine surfaces.

Weekly Maintenance

- Lubricate all moving parts as specified in the lubrication diagram.

- Inspect cutting tools for wear and replace as needed.
- Check hydraulic fluid levels.

Periodic Maintenance

Refer to the full manual for detailed schedules on gearbox oil changes, electrical system inspections, and major component overhauls.

TROUBLESHOOTING

This section provides solutions to common operational issues. For complex problems, contact qualified service personnel.

Common Troubleshooting Guide

Problem	Possible Cause	Solution
Machine fails to start	No power supply; Emergency Stop engaged	Check power connection; Release Emergency Stop button
Poor surface finish	Dull cutting tool; Incorrect feed/speed; Machine vibration	Replace/sharpen tool; Adjust feed/speed; Check machine leveling
Inaccurate dimensions	Tool wear; Incorrect setup; Calibration error	Inspect/replace tool; Verify setup parameters; Recalibrate Size-Au-Trol

SPECIFICATIONS

Key technical specifications for the Bullard Dynatrol Vertical Turret Lathe instruction manual.

- **Publication Date:** January 1, 1960
- **Publisher:** Bullard
- **Item Weight:** 8 ounces (for the manual)
- **Manual Pages:** Approximately 32 pages
- **Manual Condition:** High quality reproduction, digitally enhanced

Note: Machine specifications (e.g., swing diameter, motor power) are typically found within the full instruction manual itself and vary by specific model configuration.



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