

ATDW-2310: AUTOMATIC TAPING TOOLS

Cuyahoga Community College

Viewing: ATDW-2310 : Automatic Taping Tools

Board of Trustees:

March 2020

Academic Term:

Fall 2020

Subject Code

ATDW - Appld Ind Tech-Drywall Finish.

Course Number:

2310

Title:

Automatic Taping Tools

Catalog Description:

Instruction in principles and procedures of automatic tool taping including tools and equipment, the Bazooka automatic taping tool, loading, holding positions, and procedures for automatic tool taping individually and in teams.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

Departmental approval: Admission to apprenticeship program.

Outcomes

Course Outcome(s):

Discuss the history and principles of the automatic taping tools.

Objective(s):

1. Discuss production needs that led to the development of automatic tools
2. Explain the history and evolution of automatic tools.
3. Discuss the advantages and disadvantages of automatic vs. hand taping.
4. Identify types, variations, and brand names of automatic tools.

Course Outcome(s):

Discuss preplanning, preparatory measures, set up, and procedures of using automatic tools.

Objective(s):

1. Identify a strategy to efficiently complete the project.
2. Identify and prepare areas that will cause issues during the taping process.
3. Demonstrate the selection and setup of the tools, equipment and materials needed for the project.
4. Demonstrate the ability to apply tape using different tools, equipment, and materials, while using good body and tool positioning and motions Individually and in teams.
5. Demonstrate the ability to use tools in tough situations, and tight spaces.

Course Outcome(s):

Discuss the process of maintenance, repair, cleaning, and storing the tools.

Objective(s):

1. Identify common parts that wear and proper operating condition and use.
 2. Discuss common issues and troubleshooting.
 3. Demonstrate minor repairs, maintenance, adjustments, and cleaning procedures.
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Methods of Evaluation:

1. Quizzes
2. Exams
3. Classroom participation
4. Demonstration of assigned projects

Course Content Outline:

1. Automatic taping tool history and processes
 - a. History
 - i. Reasons for development
 1. Competition for work
 2. Abundance of work
 3. Need to keep feet on the floor for safety
 - ii. Ames Brothers
 1. Late 1930's
 - a. 1st Automatic taper (100+lbs)
 - b. Took a break to work on finishing boxes
 2. Mid 1940's
 - a. Perfected finishing boxes
 - b. First tube style automatic taper
 - iii. Advantages
 1. Speed
 - a. Combines mud and tape application
 - b. Use of longer rolls of tape
 - c. Carry more mud
 2. Increased reach
 - a. Adds length of tool to reaching ability
 - b. More time with feet on the floor (Better for safety)
 - iv. Disadvantages
 1. Requires more strength and endurance
 2. Cannot be used in most tight spaces
 3. Higher initial tool cost
 4. More maintenance and cleaning time required
 - v. Types, Brands, Variations
 1. Types
 - a. Banjo
 - b. Tube style automatic taper
 2. Brands
 - a. Ames/Tape Tech
 - b. Columbia
 - c. Level 5
 - d. DeWalt
 3. Variations
 - a. Short tube taper
 - b. Original length taper
 - c. Extended Length taper
 - d. Extension attachment
 2. Processes
 - a. Preplanning
 - i. Plan your path of travel
 - ii. Tape joint in order

1. Butt joints
 2. Flat joints
 3. Angles
- b. Wall preparation
- i. Cut out, prefill broken/defective board
 - ii. Prefill large gaps
 - iii. Countersink hanging screws
- c. Setup
- i. Mix mud to desired consistency
 - ii. Prime the pump
 - iii. Check motion and operation of gears, valves, and feeder pin
 - iv. Load tape and assure it has clean smooth path into and thru the tool
 - v. Cut tape a few times to confirm the cutting blade is sharp
 - vi. Fill the tube with taping mud.
- d. Operation
- i. Hands in proper positions on tool
 - ii. Use good body positioning
 - iii. Run tool at proper angle
 - iv. Use leg and core strength
 - v. Cut length accuracy
 - vi. Use team approach for high production and better quality
- e. Tight and Hard to reach places
- i. Hand tape tough or hard to reach spaces
 - ii. Pull pieces of tape from the tool and place by hand
 - iii. Run tool on place you can reach, remove it, and replace it on the hard to reach place
- f. Maintenance, repair, cleaning, storage
- i. Maintenance
 1. Clean mud build-up in tape track
 2. Flip blade over
 3. Adjust feeder pin
 4. Lubricate gears, springs, and cutting blade
 - ii. Repair
 1. Replace worn gears and springs
 2. Replace cutting blade
 3. Replace cable
 4. Replace feeder pin
 - iii. Cleaning
 1. Empty mud out of tube
 2. Flush with water using hose or clean fill pump
 3. Remove top cover clean inside of taping head with hose and brush
 4. Clean chain and gears
 5. Clean inside and outside of tube
 - iv. Storage
 1. Properly lubricate moving parts
 2. Place piece of dry tape in the tape track
 3. Damp sponge in end of tube in soaking in bucket of water
 4. Keep in storage case or in area where protected from possible damage or moisture
 - v. Common issues
 1. Hard to run/ mud is too thick
 2. Tape will not run thru head/ chunk of mud or tape in track
 3. Tape or cutter keeps jamming/ blade needs changed
 4. Tape won't self-feed/ feeder pin needs adjusted or replace

Resources

Finishing Trades Institute. "Automatic Taping Tools" Finishing Trades Institute 7230 Parkway Drive Hanover, MD 21076, 1998.

Finishing Trades Institute. *Hand Embedding and Wiping Tapes*. 1st. Finishing Trades Institute 7230 Parkway Drive Hanover, MD 21076, 1998.

Finishing Trades Institute. *Wiping Angle Tapes*. 1st. Finishing Trades Institute 7230 Parkway Drive Hanover, MD 21076, 1998.

Resources Other

Finishing Trades Institute Learning Management System (fti.personalearning.com)

USG.com

Amestools.com

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