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Warrenton, North Carolina

The Story Of Cochrane Furniture Company, Inc.

(Continued from page 3)

ducing stock for the moulder is by the utilization of a gang rip saw. However, with the gang rip saw, there is little choice left in selecting wider widths from the wider boards. For this reason, Hunter Rudisill, superintendent of the plant, feels they are better off to produce all dimension on the straight line rip saws and to do this, they have two Mattison 404's, and three Mattison 302's. In addition, they use a Diehl jointer on some stock. The Diehl jointer is set in an area by itself with an automatic turning device which permits operation by one man. However, the present production calls for infrequent use of the Diehl jointer as most stock is now jointed on the Mattison straight line rip saws.

All moulding is done on a new Mattison 229. This machine has the latest equipment and is powered with a high-frequency unit with over 7,200 RPM for the cutting heads.

Two men are used to operate this machine; the operator is also the set-up man and does his own grinding and setting up of the knives.

Carbide Tools Used

Hunter Rudisill is a firm believer in carbide tools wherever practical. It is admitted that much water has gone over the dam since carbide tools were first introduced and less spacing is now devoted to lengthy runs between sharpenings than were advocated in the beginning. Instead, more talk is heard of the quality improvements through carbide tools. It is now proper to recommend pulling the saw and cleaning regularly, even if sharpening is not needed. More frequent sharpening is even advised. It is now known that the duller a carbide tool becomes, the longer it will take to sharpen and the more expensive carbide is ground away. The management at Cochrane Furniture Company'admit that carbide is not economical on all machines nor on all types of work. For example, little is gained by routing soft Poplar with a carbide router bit. A sanding operation, they are

high speed steel bit is much cheaper, initially, and cuts better because it carries a keener cutting edge. On the other hand, to route plastic laminates with a high speed bit is a waste of time. The high speed steel dulls on the first pass. Small diameter bits tipped with carbide last only a short time because of breakage. Larger di-ameter bits, 1/2" and up, are satisfactory when made by tipping with carbide. For small bits, it is recommended they be produced of solid carbide. **Cabinet Sanding**

And Assembly

At Cochrane Furniture Company, the sanding has been developed to a point where it constitutes a small percentage of the cost of the machining operation. For example, all flat work is drum sanded first on a Solem triple drum sander. To produce a surface that will require the minimum of polishing, Harvey Rudisill pointed out that they were loading the drum sander with 1/2, 60 garnet on the stock removal drum, followed by a 1/0 on the second drum and finishing up with a 2/0 garnet on the last drum. The flat stock is then sent to the sub-assembly operation for parts such as doors which require rimming before they reach the final polishing stage.

For polishing, all parts are sent to a new Danckaert semiautomatic polisher. This machine has many of the features of the fully automatic machine with this exception: the stock is placed on a hand-operated table and moved manually under the belt. The belt is lowered into position by air actuated cylinders and sands the full length of the panel. It requires only the movement of the table in and out of the operator to complete a satisfactory job. They have found that a No. 4/10 belt serves best on this operation. For edge sanding, Hunter Rudisill said he has found nothing that will surpass garnet for this operation. It not only is the most economical type of abrasive he has found, but it

also prevents burning and ex-

cessive loading. For the edge

using a Pearson sander load-ed with 2/0 garnet cloth. ed in a high temperature oven for drying. They remain in this oven for approximately 10 minutes at 160 degrees F. Following the sanding operation, all parts are brought to Two lacquer coats are applied the cabinet assembly room for

case thoroughly. Final sanding

is performed with a litterbug

type sander using garnet abra-

sive for removing raised grain

In order to insure the remov-

al of all glue, a dye is add-

ed to the polyvinyl type giue

used in the assembly oper-

ation. This shows up through

the various operations follow-

ing the assembly and is

easily detected at the last

operation for its removal.

Finishing

All finishing operations are

conveyor. This is a semi-

operator to get the work pace.

drying stain, it is immediate-

ly stained a second time with

a toner type stain before it

leaves the first booth. The

toner type stain is a pigment-

ed formulation which adds a

great deal of depth to the final

Following the application of

the toner, a washcoat is applied.

The washcoat consists of a

filuted sealer. The washcoat is

permitted to dry for 40 min-

utes and then goes through a

sanding operation. The hand

sanding is done with a com-

bination of jitterbugs and hand

operations. For both the seal-

er sanding and the washcoat

sanding, a No. 7/0 garnet

finishing paper is used. Hunter

Rudisill explained that they had

found the garnet type abrasive

to be the most economical at the

The next operation follow-

ing the washcoat sanding is the

operation.

finish.

and sanding out glue spots.

assembling and forwarding to the finishing department. A careful touching-up opera-tion is performed on all with a drying period between. Following the last lacquer coat, the parts are placed on a lift and lowered to the second floor where they cases in the white prior to their are stored overnight for com-plete drying before rubbing, forwarding to the finishing room. Here the operator repolishing and packing. moves all dents, scratches, and minor defects and inspects the

New Plant Manufactures

Dining Room Chairs

Jerry Rucker, superintendent of the chair plant, pointed out that over 55,000 feet of floor space was available for chair manufacturing. The new plant is completely fire-proof, and is capable of producing over 600 chairs per day. With some modification in the addition of critical machines, the plant production can be doubled.

Automatic Turning And Sanding

With the exception of the seat panel, practically all parts performed on a rapid stand manufactured by the chair plant must go through the turning mobile unit and permits the lathes. To perform these operations economically and at a The stains are applied in the rapid rate, a battery of Mattifirst booth. The first stain is son No. 66 automatic lathes an NGR stain which is applied were installed. These lathes with an NBC gun operating are operated by the minimum with a gun pressure of 45 number of men and require only pounds. Since this is a quick that the hopper be kept loaded.

To increase the efficiency of the turning operation, it is a practice of the chair plant to run all squares through the doweling machine to reduce them to turnings before placing them in the automatic lathe. The automatic doweling operation is very fast and turns out a large volume of dowels with the minimum amount of labor. The saving is reflected

in the output of the automatic lathe, in that little time is required to round up the squares. Additional turning capacity

is obtained with a Hempel back knife lathe. This lathe is used for turning narrow diameter rounds for chairbacks and spokes.

Garnet Used For Sanding Chair Parts

A problem faced by every manufacturer of dining room chairs is that of sanding economically the tapered turnings produced on the Hempel back knife lathe.

jobs. The parts are fed to the machine by means of a rubber tire feeding device which forces the work against the belt and also gives it a rotation upon the impact of the belt. It has been found that two belts of the same size produce the best work. For this operation they are using a No. 150 grit size. However, for sanding the parts which are produced on the Mattison turning lathe, a Nash

THE WARREN RECORD

automatic turning sander is used. This machine is loaded with garnet abrasive using a 2/0 grit on the first loading followed with a 3/0 and 4/0 in this order. One of the new sanding ma-

chines that has been added to the chair plant is that of a Timesaver belt sander for that the pumps also contained a return line so that the masanding curved parts. This material was continually in circhine takes a narrow belt, approximately 12" wide. culation. This prevents undue Jerry Rucker pointed out that settling of material in the the best abrasive was garnet. lines. When the system was first installed, return lines were not resin bonded on X-weight backprovided on some of the matering. The garnet continuously rasharpens itself during the sandial. It was found that this maing operation and completely eliminates burning, a major factor in sanding the type of work needed to produce dining room chairs of Hard Maple and

Oak. **Bulk Storage Of Finishing Material Has Cut Costs**

When management started inthe storage tanks into the pump vestigation of ways to reduce house. The material is pumped manufacturing material costs, into barrels and then lifted from they took a sound approach in the barrels into the lines which looking into the finishing matercarry it into the finishing room ial precurement problem.

The sound approach to finishing material cost reduction has been in the realm of precurement through bulk storage, thus reducing the cost to the material manufacturer and to the furniture manufacturer in many wavs.

Actual studies conducted show that a savings of 10¢ to 15¢ per gallon is possible for lacquers, sealers, and wash coats. Thus, for the concern using 1,000 gallons per week, this is approximately \$7,000 per year.

Studies of savings to be realized from bulk storage of finishing material show that the differences in price per gallon of bulk deliveries constitutes enough to pay for the storage tanks in less than one year.

At the main plant, two storage tanks were adequate to take care of the finishing material bought in volume. One tank is for sealer and one tank is for

DAY PHONE:

438-8518

Warrenton, North Carolina

The storage tanks are equ

Hunter Rudisill, superinten-

completely eliminated.

the lacquer and sealer from

air pumps.

By this method, it is possible Capt. Jones Presented to produce their own wash cost by stiding the correct amount **Bronze Star Medal**

THURSDAY, OCTOBER 15, 1970

AN KHE, VIETNAM - Army

Captain Ernest M. Jones, Jr.,

son of Mrs. Annie J. Sykes,

Littleton, N. C., recently re-

He was presented the bronze

star medal for distinguishing

himself through meritorious

services in connection with

military operations against

hostile forces in Vietnam. The

medal, adopted in 1944, recog-

nizes outstanding achievement.

award while assigned as com-

manding officer of Company

D, 1st battalion of the 4th

infantry division's 12 infantry

The Captain was last sta-

renton, N. C.

ed.

Capt. Jones received the

near An Khe, Vietnam.

ped with agitators to keep solids and flatening agents in of thinner to sealer drawn from tion. The storage tanks the bulk storage tanks. It is also practical to mix the Cochrane Furniture flatening agents at this point to produce a finish with a lower Company are equipped with re-circulation pumps which recir-culate the entire tank on a cycle

of approximately five minutes. Sales Are Wide Spread The same pumps are used to force the liquid into the The Cochrane Furniture Company is shipping to all pump house for distribution to the flaishing room. states East of the Mississippi River and to some as far West as the Pacific. Situated near the bulk storage

Sales are handled by a staff tanks is the pump house where of salesmen located in the prinvarious stains are mixed and added to the line and forced into cipal cities.

At the present time, most the finishing room by means of shipments go by commercial truck lines. However, apdent of Plant #1, pointed out proximately 20% of the products manufactured go by rail. Since the prime products

near An Khe. consist of dining room furniture, rocking chairs, and coffee tioned in Germany. His wife, tables, extreme care is taken Marilyn, lives at 3509 Woodto insure that the product arbury Drive, Hopkins, S. C. He rives at the customer's store was graduated in 1954 from undam aged. John Graham High School, War-

All case goods are shipped with skids attached to give the terial lying in the lines for a maximum protection to the legs prolonged time settled out and caused undue maintenance and prevent damaging corners of cases in handling. problems. However, since the

installation of the return cir-DECOUPAGE SKILLS culation system, this has been "I didn't realize that learning the art of decoupage would The procedure is to draw

pay off so soon," Mrs. Arcelia Martin, Vance County, said, as she held a pocketbook she made in the Extension-sponsored workshop.

decoupage and believes the extra family income will help her buy materials for her other hobbies, Mrs. Esther Roscoe, home economics extension

for the bag during the work-

shop," Mrs. Martin noted.

"Within two weeks, Ihadorders

for three more bags," she add-

Mrs. Martin enjoys doing

"One lady offered me \$45 agent, relates.

Congratulations To **COCHRANE EASTERN** Makers Of Jine Maple Furniture

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FOR THE COCHRANE EASTERN OFFICES.



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application of the glaze. The glaze is sprayed on the wood and then handwiped by skilled operators who are ex-The Cochrane Chair Company perienced in leaving just the secured a Kritz double verticle correct amount of glaze stain. belt sander to perform these The glazed parts are then plac-

Congratulations

- TO -



INCORPORATED

Makers Of Jine Maple Jurniture



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Makers Of Fine Maple Furniture

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CORPORATION

WALDO ALEXANDER, Owner

1199 NICHOLAS - HENDERSON, N. C.

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