CONTENTS
Figure 1 - USMC Elevating Machine-Model C. Front-Right View

ILLUSTRATIONS

1. USMC Elevating Machine-Model C
2. Front-Right View
3. View of Machine With Operator - Horn
4. Extending Over Edge of Bench
5. View of Machine With Operator - Horn
6. Set Spindle Pitching Over Eyellet From Recess
7. Set Back From Edge of Bench
8. Horn and Eyellet - Front-Right View
9. Front-Right View - Eyellet Recess From Machine
10. Lubrication Chart
11. Clutch Operating Parts - Exploded View
12. Carnevali Parts - Exploded View
13. Left-Side View of Machine
14. Front-Right View of Machine
15. Eyellet Recess Parts - Exploded View
16. Exploded View of Machine
17. Exploded View of Machine
18. Exploded View of Machine
19. Lubrication Chart
20. Clutch Operating Parts - Exploded View
21. Carnevali Parts - Exploded View
22. Carnevali Parts - Exploded View
23. Carnevali Parts - Exploded View
24. Carnevali Parts - Exploded View
Figure 2 - View of Machine with Operator - horn extending over edge of bench

Motor Drive

- Speed of driving pulley: 200 rpm
- Reach of horn: 4-3/8" on machine
- Motor: 24 lb.
- Net weight of motor including motor: 171 lb.
- Height: 26-1/2"
- Depth with motor: 24.1"
- Depth without motor: 18.1"
- Length (left to right): 11-1/2"

Overall Dimensions and Weight

B. Data

A General

General Information

Section I
SECTION II

INSTALLATION, ADJUSTMENTS, AND OPERATION

1. A sturdy bench is necessary. Consider the weight of the machine (approximately 200 pounds), as well as the weight of the materials to be placed on the bench, to ensure stability.

2. Before cutting your bench top, consider your work and the tools you will use. The center of the bench should be no more than 3 feet beyond the base. The front edge of the base of the machine should be no more than 3 feet beyond the edge of the bench.

3. For an installation in which the motor is to be mounted beneath the bench, locate the washers and nuts beneath the bench. When the bolt is to be used, place the motor in position. Bolt in place, being sure that the washers and nuts are located beneath the motor. For the rear of the machine, bolt the bracket in position, aligning it with the holes in the bracket. Fasten the motor to the bracket with the washers and nuts, as shown in Figure 2.

4. Place the motor unit on the bench. The motor must be mounted in such a position that the motor spring is parallel to the bench.

5. Note that the oil cups on the front and rear of the motor must be above the shell so that the motor can be lubricated in its normal position. Change the position of the oil cup if necessary.

6. Make sure that the washers and nuts are located beneath the motor when the bolt is to be used. Place the motor in position, aligning it with the holes in the bracket. Fasten the motor to the bracket with the washers and nuts, as shown in Figure 2.
Figure 5 - Set spindle pinching of Fretter from raceway.

Adjust the set die as follows:

1. The pilot of the set die should enter the center of the die clockwise slowly.

2. Depress the thread, and turn the die to the lower end of the raceway to the left about 1/4.

3. Alignment of set die.

4. Core turning on the power.

5. All machines are fine before being shipped from the factory.

B. Adjustments (see Figures 4 and 5)

6. Rod slackness removed.

7. Belt 3G1 tone. Install the belt guard EMC-165A.

8. The alignment motor ball (2.4") is too short, type #1/4" Y-type. Prevent slippage. If the backlash of the belt is such that slippage is just enough to prevent slippage, the belt will be protected if a Y-type belt will be inserted light enough for operation.

9. Tighten the motor ball nut. Adjust the motor back and the larger portion of the idle pulley EMC-894.

10. Tighten the idle nut. Place the motor ball over the motor pulley shaft EMC-162 but do not
p. To change from one drive to the other, remove the

shaft EMG-39.

pulley and EMG-108, turn the brush
continuously. When the pins engage the brush clamp,
the brush turns.

8. Eyellet Box Brush (see Figures 6 and 7)

9. Motor Belt (Motor Mounted Bencheh Bench)

point contacting one of the two grooves in the hub.

loosen the pulley clamp screw. Adjust the belt

(1) loosen the pulley clamp screw. Turn the loose

b. Belt tension.

Tighten the set screws.

(1) loosen the two motor pulley shaft set screws that

a. Alignment of motor pulley with idler pulley.

(2) Turn on the power. The pulley will become aligned

(1) loosen the two motor pulley shaft set screws that

4. Adjust the tension of the drive belt EMG-90 Bp

(2) Turn on the power. The pulley will become aligned

(2) Turn on the power. The pulley will become aligned

(1) loosen the two motor pulley shaft set screws that
3. A small table built around the set die to assist the operator is such that this table is independent, a specially constructed table being used. When the operator in grasping the work, and pressing the die, depress the set die but without moving the die. The machine will hold the work level and in such a way that it rests on the table block.

4. By the above method, shorten the belt and readjust

5. The leader block ENG-110 may be adjusted

6. The follower box brush PE-600A.

7. Brush driving pulley check out NL-2802 and nut ENG-10

8. Set cap EL-146
4. Replace the set cap. PR. 146, and set spindle. BR. 246.

3. Loosen the set cap, holding screw SL-14510 and remove the set cap.

2. Insert a new die and lightly the screw lightly.

1. To change the die, tools, see figures 5 and 9.

CARE OF MACHINE

SECTION III
4. Wipe off surplus oil with a clean cloth before starting work.

3. Cover the machine at the end of the working day. Keep the machine covered when not in use for an extended period.

2. At the end of each day's work fill the oil cups and all the sliding surfaces at the points indicated in Figure 10. Use USMC 160A0 oil or any high grade mineral machine oil.

1. Clean the machine daily with a clean cloth. Note that on cleaning and lubrication (see Figure 10).

C. Check both the alignment and timing of the raceway with the opening in the box.

Make sure that the top of the raceway coincides with the shoulder of the bracket and the eyepetl eyelet is aligned. By means of the seven raceway bridge screws, lubricate the raceway in position and secure it to the lever.

c. Place the new raceway in position and secure it to the lever.

b. Attach the new eyepetl box to the raceway bracket and the raceway unit (Figure 6), Remove the two eye...
A. Replacement of Clutch Parts (See Figures 6 and 12)

SERVICE INFORMATION

SECTION IV
Remove the cover EMG-190A.
2. Remove the brush pulley belt NDC-152.
3. Unhook the bracket spring SPR-35343 and remove the raceway (Figure 4).
4. Disconnect the plunger link EMG-205+ from the set cap.
5. Remove the drive belt EMG-80 from the driving pulley
6. Remove the driving pulley EMG-77A+.
7. Remove the clutch parts, cam EMG-74+, and key EMG-73.
8. Withdraw the crankshaft EMG-225 from the front of the machine.
9. Examine the parts for wear or damage and make the nec-
   essary replacements.
10. Reinstall the parts in reverse of the order in which they were removed.