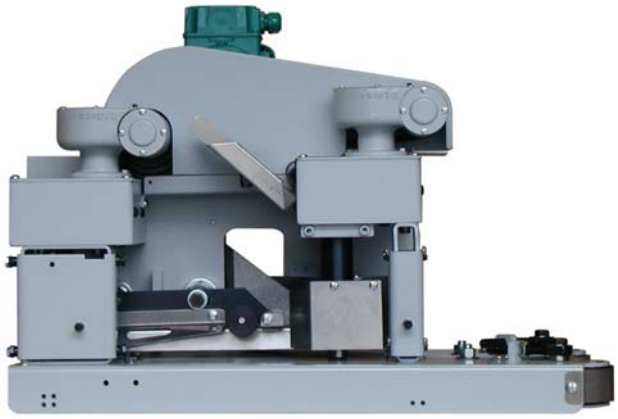
# FISCHBEIN

# BAG FEEDER - CUTTER
# 2700
## INSTRUCTION MANUAL



DATE OF MANUFACTURE:.....

SERIAL NUMBER:..INLK……

WEIGHT:…….....37,500 kg.

EDITION:.....01-2010

CONSTRUCTOR :

FISCHBEIN LLC
WALKER ROAD, 151
STATESVILLE NC 28625 - USA

IMPORTED AND SERVICE:

FISCHBEIN S.A.
PAEPSEM BUSINESS PARK
BOULEVARD PAEPSEM, 18b
1070 BRUSSELS - BELGIUM

# 1. TABLE OF CONTENTS

# 2. FOREWORD.

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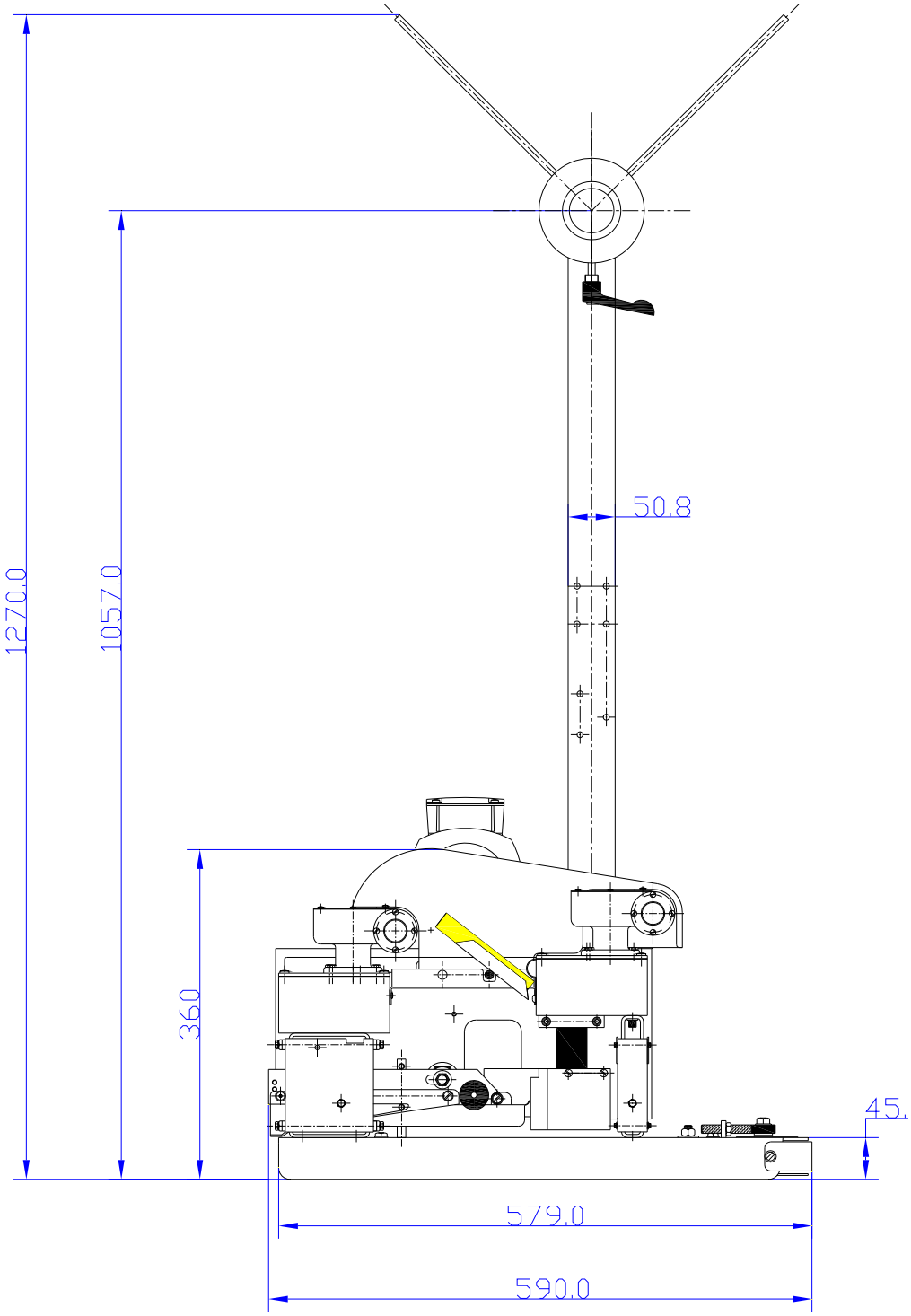
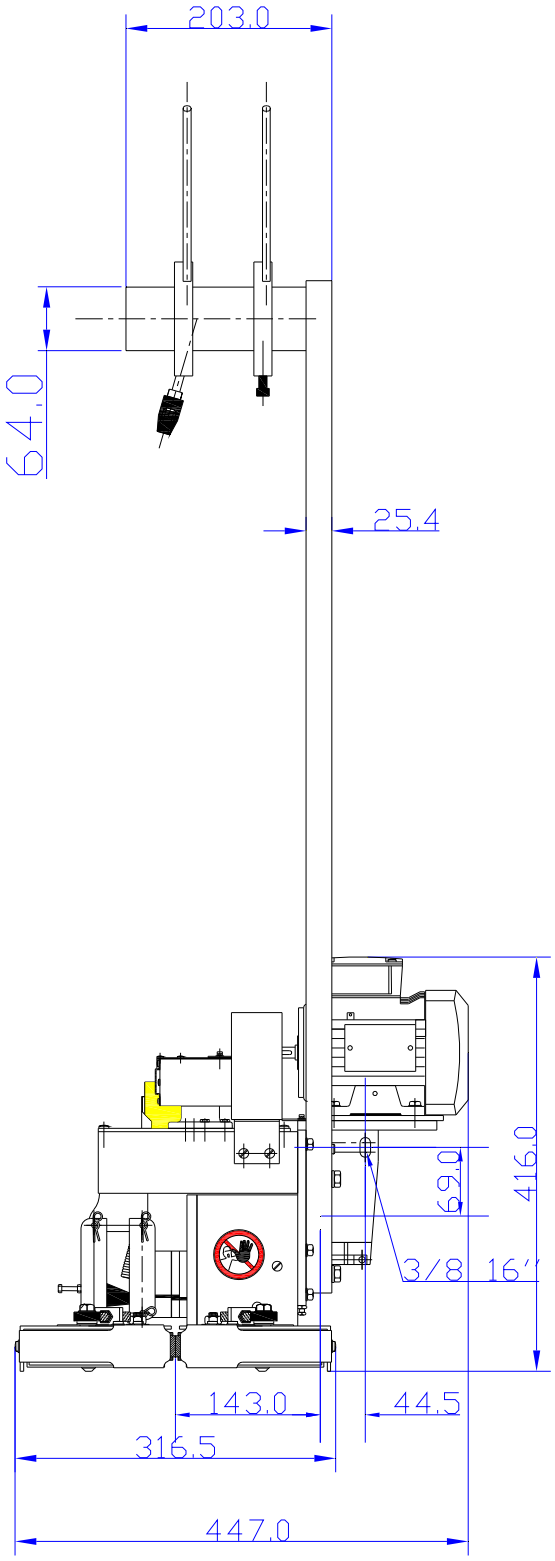
**READ THIS MANUAL BEFORE INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON THE 2700 INFEED.**
**BESIDES SOULD DURING INSTALLATION IN AN EXISTING EQUIPMENT AL RULES FOR SAFETY BE RESPECTED TO MEET THE CE REGULATIONS.**

# 3. DIMENSIONAL DRAWINGS.

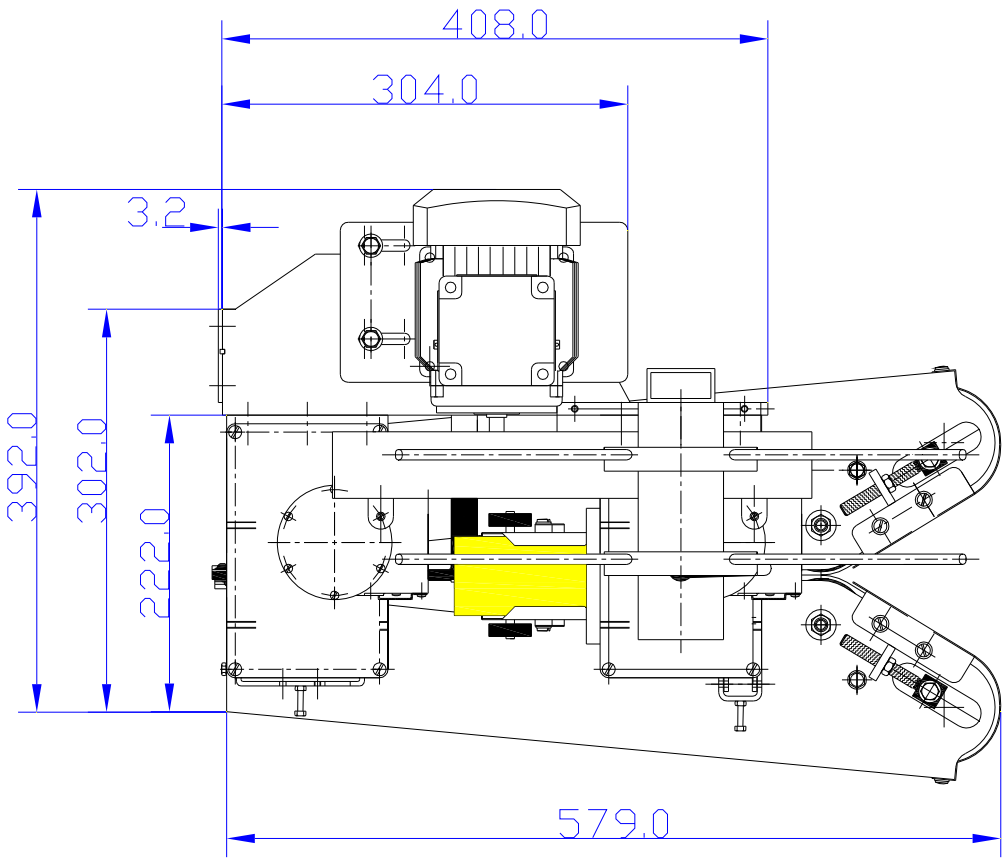
## 3.1. Front view.



### 3.2. Side view.



### 3.3. Top view.



# 4. IN GENERAL

## 4.1. The purpose of a bag feeder.

This machine is designed to cut and feed the upper part of a bag into the sewing head in such a way that the bags are always introduced at the same height and so that the user does not need to push the bags along the sewing head during the cutting and sewing process.
In addition, this machine also makes it possible for the bags to be sewn shut automatically in a line parallel to the edge of the bag.

## 4.2. Tips for use

1. This machine serve solely to cut and feed bags into the sewing head and should not be used for any other purpose.
2. The height above the feeding belt should must be at least 50mm and no more than 115mm.
3. All dust on the motor and gearbox must be removed every day. This helps to prevent possible overheating of the motor or the gearbox.
4. Make sure that the feed belts are sufficiently tight, but not too tight (pressing with the thumb, the belt should flex by about 3mm).
5. If you remove any protective casing in order to service the machine, make sure that you replace it at the end of the work and before starting the machine.
6. Always use original spare parts made by **FISCHBEIN**.
7. Always use screws made by **FISCHBEIN**. This is because they have a Withworth thread, not a metric thread.
8. Make sure that the feeder is correctly aligned with the sewing head.
9. Check that there is no product between the belts (see fig. 1) and maintain some distance between the product and the feeder.

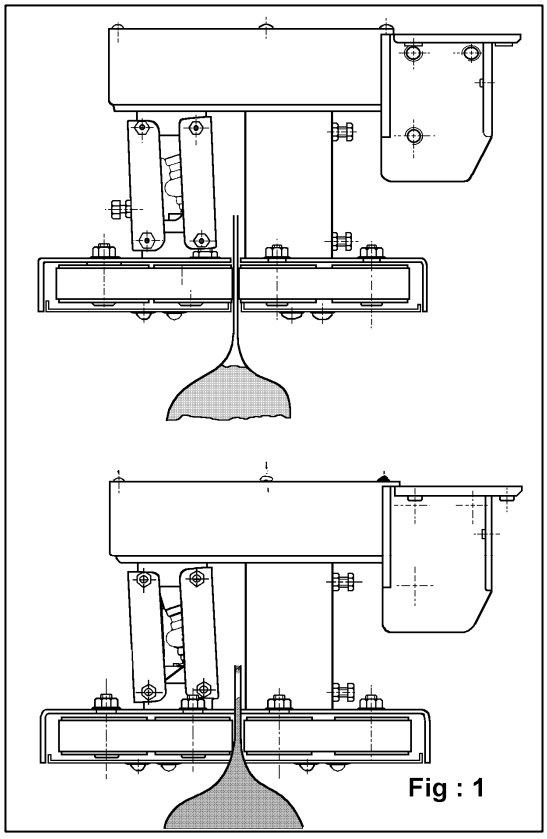


Fig : 1

10. Only use motors with a minimum power rating of 0.18 kW and a rotational speed between 750 and 1450 revs/min (for speeds between 6 and 13 m/min).
11. The compartment holding the gearbox must contain a lubricant of the type MARFAK 00 (Texaco).
12. Replace the gearbox oil approximately every 1000 operating hours. Pour the oil into the compartment until the oil level reaches the A-line, as shown in fig. 2 (this line is not marked on the compartment wall).
13. The maximum rotation speed with standard equipment is 13.5 m/min. If you wish to increase the speed, you will need to reduce the distance between the drive pulleys. The feed belt will also need to be modified.
14. Each day, coat the joints (A) of the joint plates (B) with normal oil. A single drop is enough.
15. When the infeed is built in an existing installation has the integrator to add additional guarding and to install additional safety means so that the installation after installing the infeed meets the CE regulations. Follow the recommendations for the drive of the infeed.

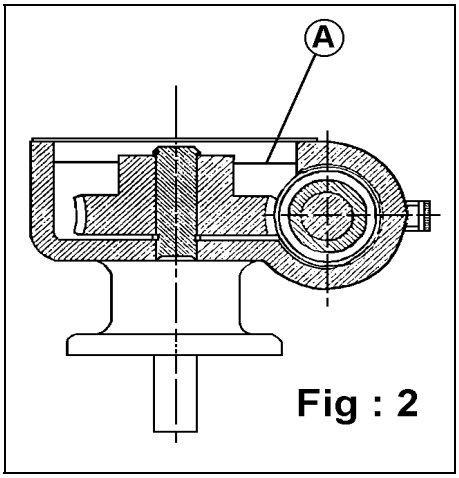


Fig : 2

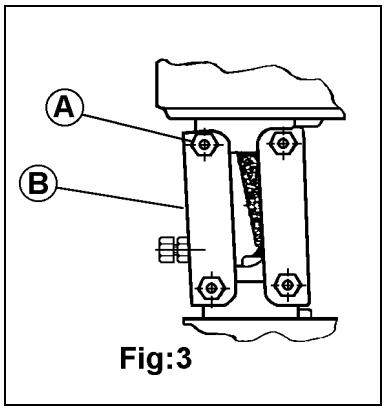


Fig:3

## 4.3. Specifications

1. Overall length: …….....580 mm
2. Overall width: ……..450 mm
3. Overall height: ……..420 mm
4. Height including crepe spools ……1,200 mm
5. Weight excluding motor:……32.60kg
6. Weight including motor : ……37.50kg
7. Suited for use with: bags made of paper, stiff plastic and stiff polypropylene.

The bag feeder comprises:

1. a motor rated at 0.18 kW and 1450 revs/min, with IP55 protection and 230 or 400V, operating at up to 460V / 50Hz. These motors can also run under 60Hz. Tropicalised (environmental protection) (A).
2. An encased transmission system (B), consisting of: A drive pulley, gearing ratio 1.54, and two ring-and-pinion gears (E). Two gear reducers (C).
3. A support frame (D) with a parallelogram-mounted flange and a universal-joint drive (F).
4. Two bag feed-belts (G). The transmission is equipped with a reception pulley, 0 DP 76mm (H), whereby the feeding speed can be adjusted between 8.25 and 12.7 m/min.

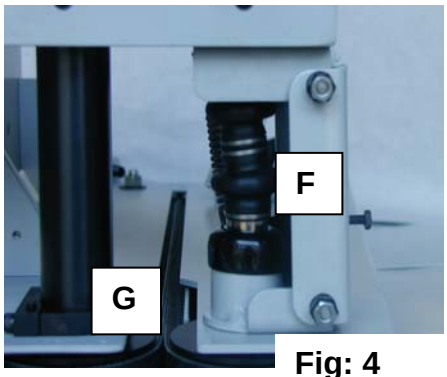


**Fig: 4**

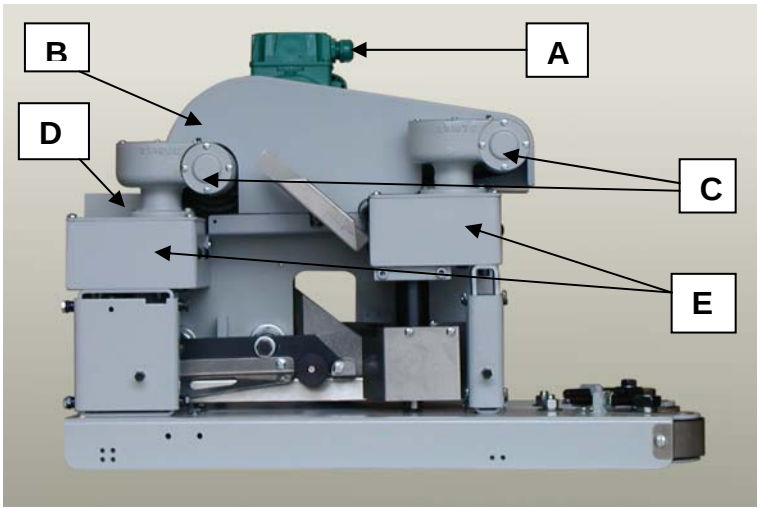


**Fig: 5**

# 5. MAINTENANCE AND MINOR REPAIRS

## 5.1. Changing the gearbox oil.

1. Make sure that the feeder cannot be switched on.
2. Remove the hood from the feed belt.
3. Remove the cap (B) from the gearbox.
4. Open the socket on the front of the gearbox, as shown in figure 6. Empty the gearbox of all oil. To simplify this task, you can either heat the gearbox or perform this oil change at the end of the day

5. Clean the gearbox using a small brush and a small amount of **white spirit**. Do not use any other solvent!!!!
6. Close the case.
7. Fill the gearbox with the fresh oil – type Texaco **MARFAK 00** or comparable – up to the line indicated in figure 4.
8. Close the gearbox and reinstall the protective hood over the feed belt.

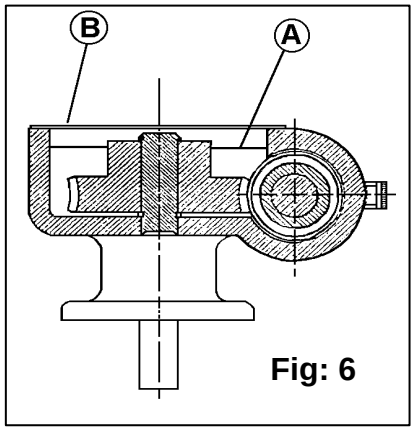
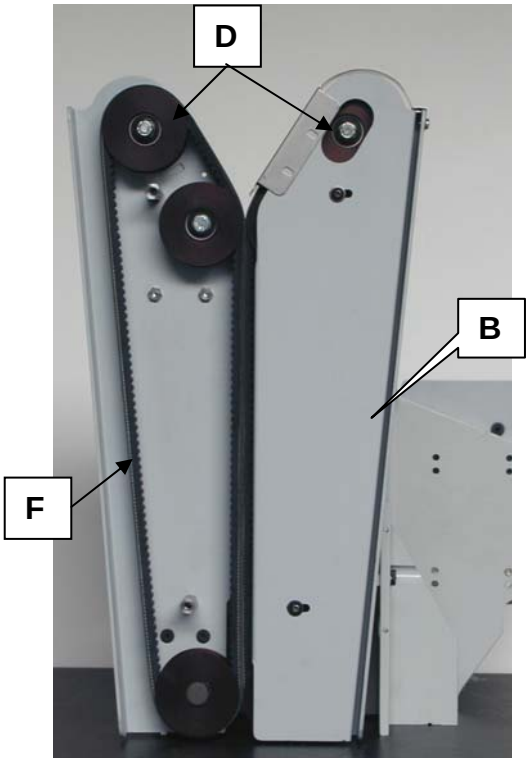


Fig: 6

## 5.2. Replacing the feed belts.

1. Make sure that the feeder cannot be switched on.
2. Remove the belt cover (A) from the feed belt.



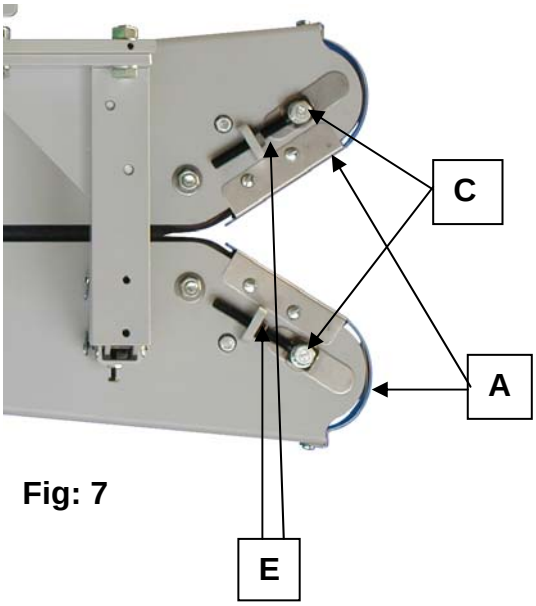



Fig: 7

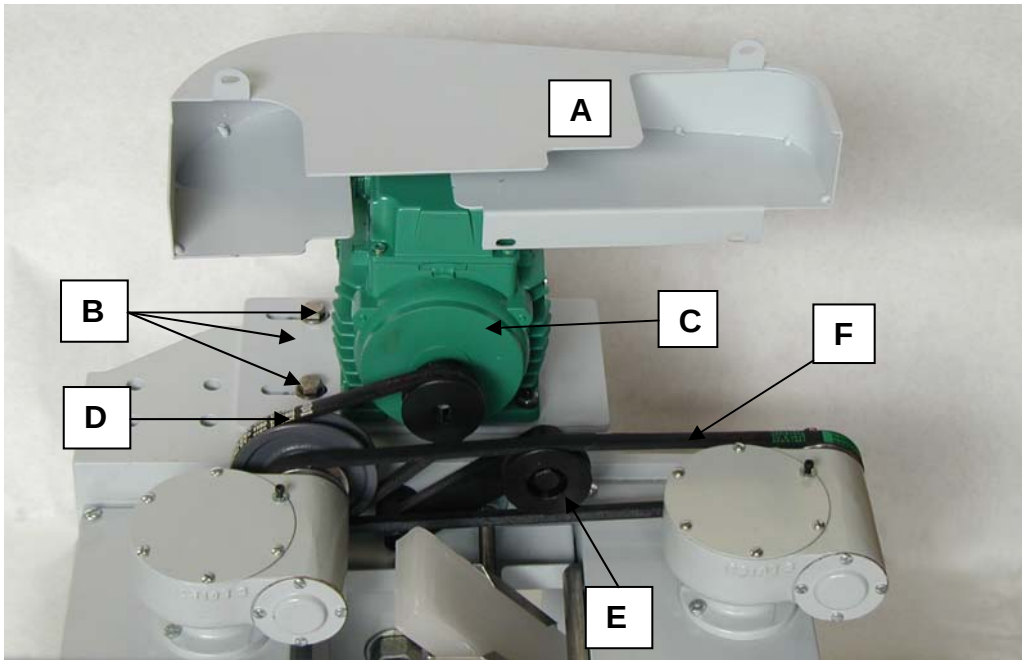
Fig: 7.1

3. Remove the protective pates (B) located beneath the feeder.
4. Unscrew the two nuts (C), thus detaching the pulleys (D). Then unscrew the nuts holding the belt tensioners. You can now remove the belts (E) by pulling the front part lightly forward.
5. Place the new belts (F) and tension them with the belt tensioners until the belt can be moved by about 3mm.
6. Re-tighten the nuts (C).
7. Re-attach the protective pates (B) beneath the feeder.
8. Fix the belt covers (A) over the feed belt.

## 5.3. How to replace the drive belts?

1. Make sure that the feeder cannot be switched on.
2. Remove the belt cover (A) from the drive belt.
3. Unscrew the attachment plate of the motor (B) and slide the motor (C) forward.
4. Remove the belt (D) and replace it with the new belt.
5. If it is necessary to change the link belt of two ring-and-pinion gears, first reduce the strain on the belt by means of the belt tensioner (E).
6. Remove the belt (F) and replace it with a new one.

**Fig: 8**




7. Re-tension the belt and move the tensioner (E).
8. Now pull the motor backwards until the belt (D) is slightly tensioned and screw down the motor's attachment plate.
9. Re-attach the protective hood (A).

## 5.4. Replacing the universal joint.

1. Make sure that the feeder cannot be switched on.
2. Remove the pressure on the drive belts by also unscrewing screw (A) in the second section of the feeder (do not remove).
3. Unscrew the front joint plate (B) by removing the bolts (C), extract the cotter pins from the joints and remove the front part of the axles.

**Fig:9**

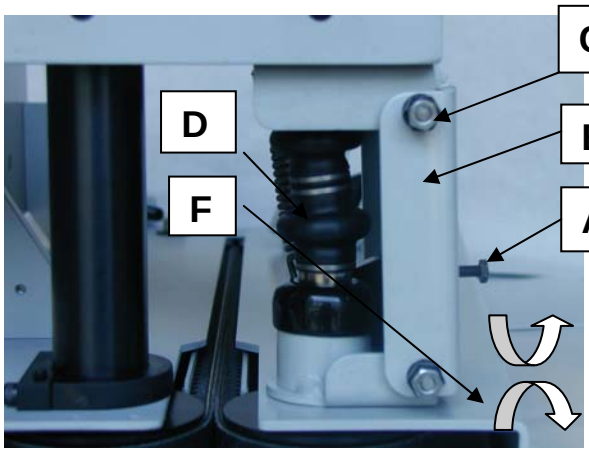
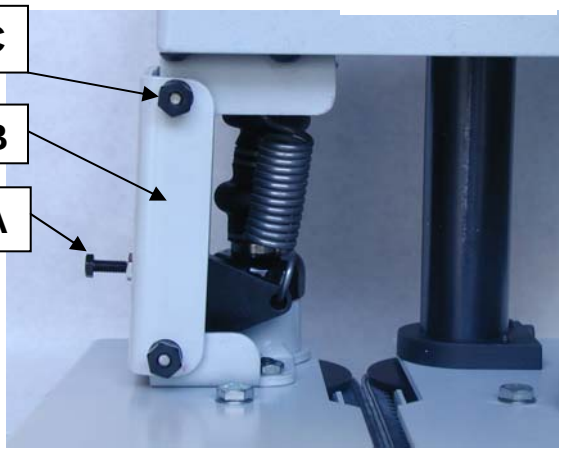



**Fig: 10**

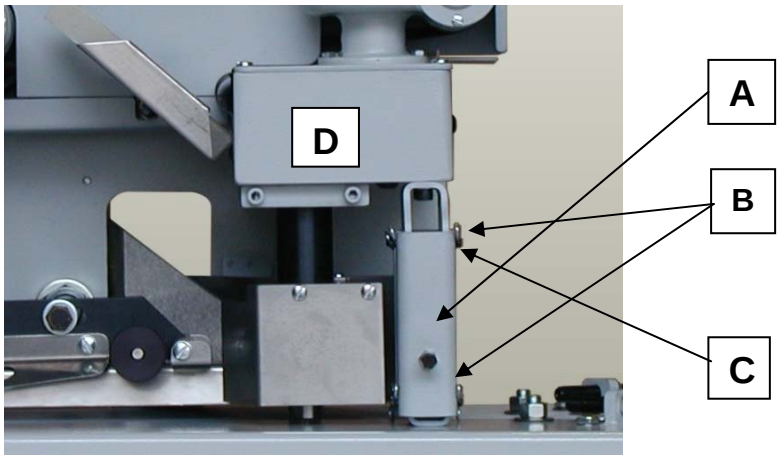



1. After this, pull the front part (F) downward so that the universal joint (D) pops out of its base, see figures.
2. Remove the universal joint (D) and replace it with the new part.
3. Push the front part (F) upward, making sure that the universal joint (D) is in the correct position.
4. Re-place the joint plate (B) with the help of the two bolts.
5. Adjust the two screws (A) until the belts have 5 to 7 kg of pressure between them. This pressure is needed to keep the bags between the belts.

## 5.5. Replacing the circular blades.

1. Make sure that the feeder cannot be switched on.
2. Remove the protective casing.
3. Remove the pressure on the drive belts by also unscrewing screw (A) in the second section of the feeder (do not remove).

**Fig: 11**



1. Remove the cotter pins (B), followed by the small axles (C) and remove the joints (A) (see figure 11).
2. Take off the link belt.
3. When removing the moving front part, do not forget to fold the drive part, otherwise it will fall.
4. The moving part (feeder) has now been separated from the general support of the feeder.
5. Remove both attachment nuts from the gearbox in the cutter section. This completes the disassembly of the cutter.

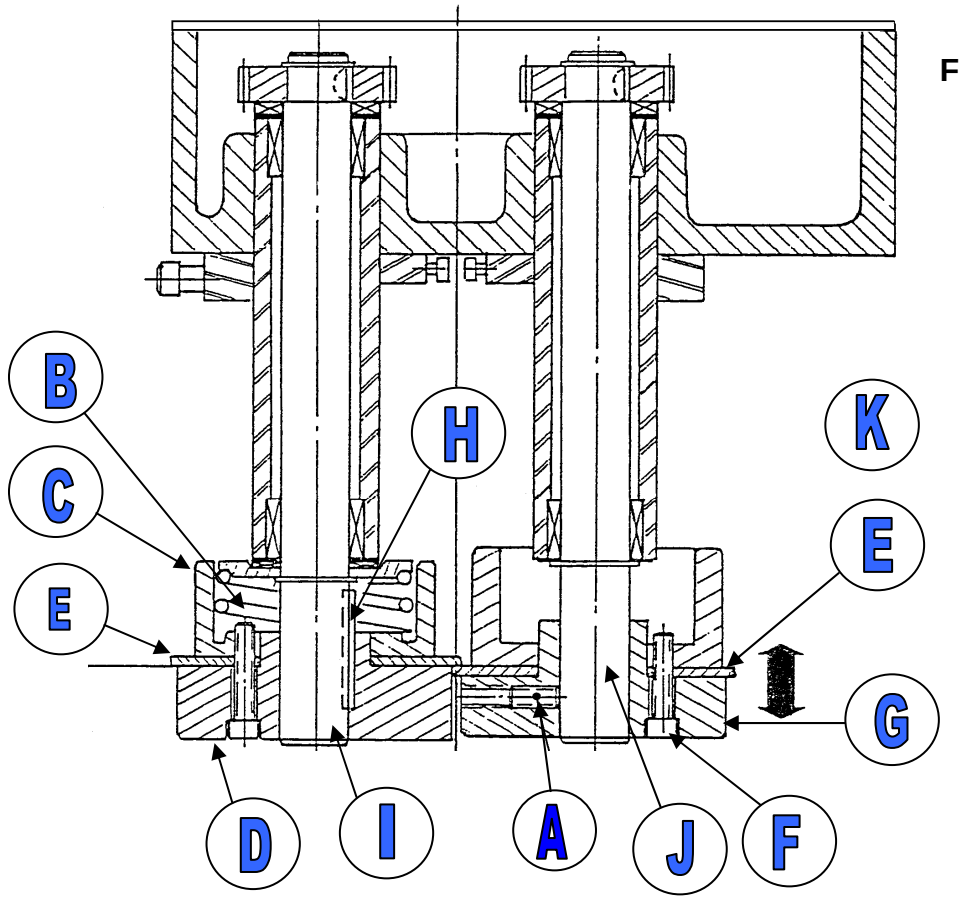



**Fig: 12**

6. Carefully remove the screw (A) while taking of the sharp blade, which is pushed downward by the spring (B). Both blades have now been released and can be replaced.
7. Remove the screws (F) and the blade (E) will come free. The blades are fixed between parts (D-C) and (G-K).
8. Either replace the blades or turn them over (see figure 12).
9. Remount the blades on the foreseen axles. Axle (I) is equipped with a wedge (H), while axle (J) has a flat side that corresponds to screw (A).
10. Re-assemble in the reverse order.

**CAREFUL!!! THE BLADES ARE EXTREMELY SHARP.**

## 5.6. Synchronising the feeder with the conveyor.

To adjust the machine's speed to that of the conveyor belt, one must simply relax the belt by unscrewing the two blocking screws on the motor's tensioning block.
Undo the two blocking screws of the drive pulley (which is of the variable type) and rotate the moving flange using successive quarter turns.

⇨ Rotate clockwise to increase the speed.
⇨ Conversely, rotate the flange counter-clockwise to decrease the speed.

Re-tighten the two blocking screws on the foreseen flat area of the non-moving part of the pulley. After this, retighten the belt.

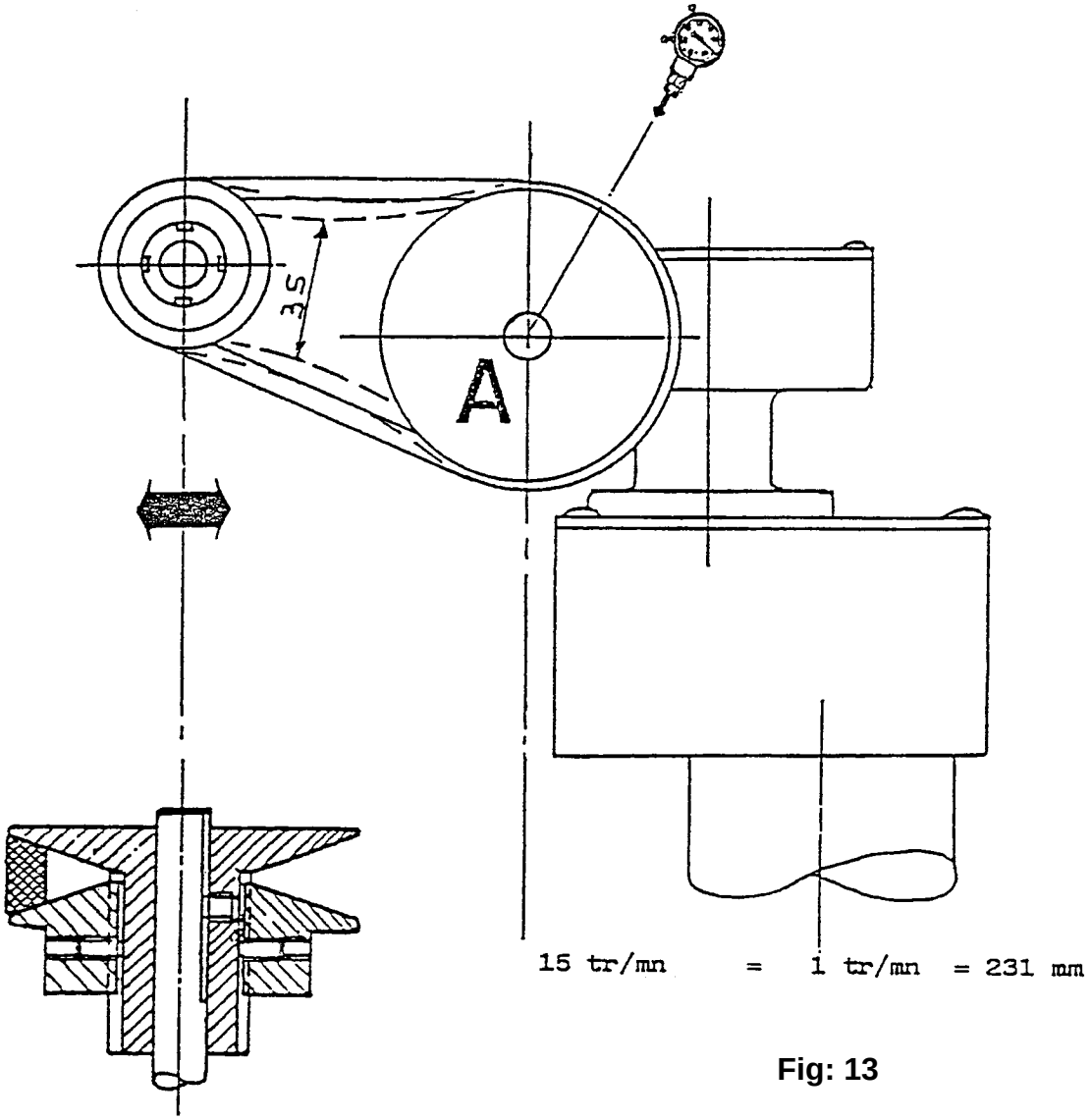
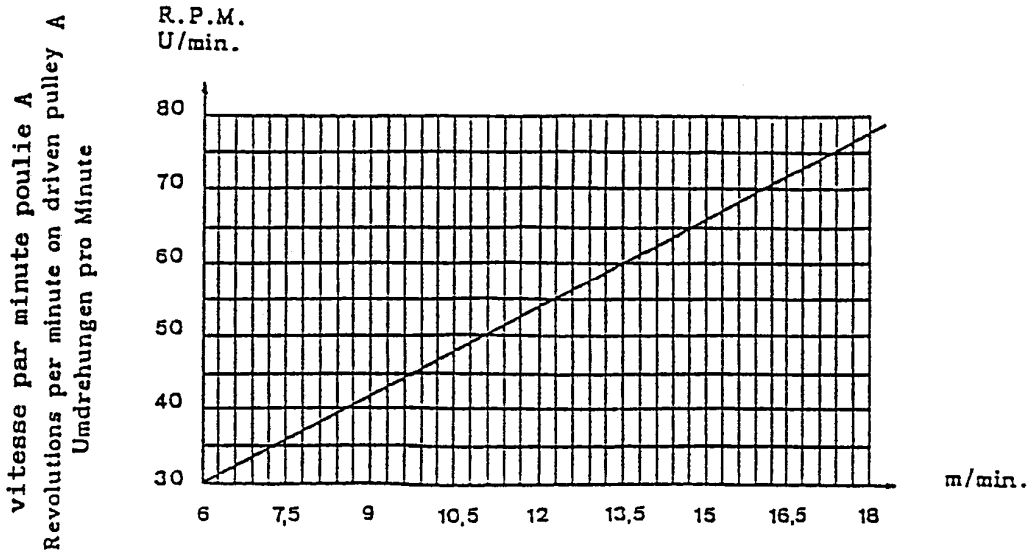



**Fig: 13**




Speed of conveyor (meters per minute)
Transportbandgeschwindigkeit (Meter pro Minute)
Vitesse du convoyeur (mètres par minute)

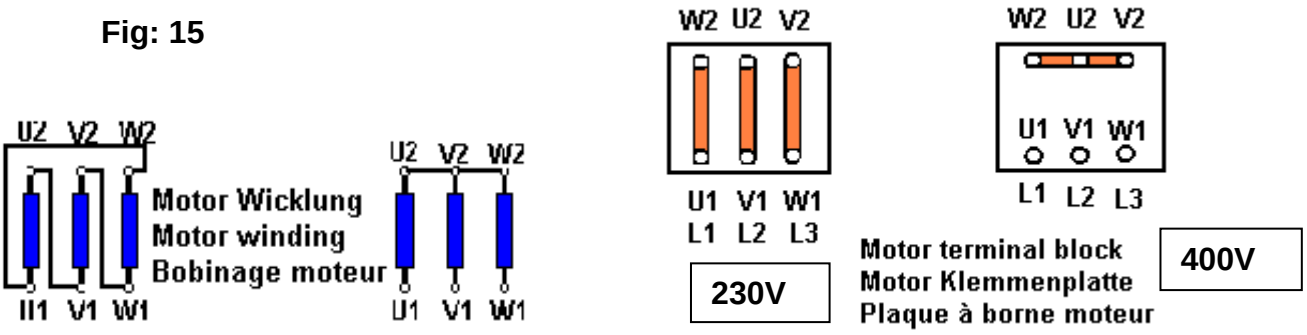
**Fig : 14**

Determine the rotational speed of the gearbox axle with a speedometer that is specially equipped for such measurements.
To measure the linear speed, you must first remove the protective cover from the feed belts.
To establish the linear speed of the feeder, take the speedometer, equipped with a rubber wheel, and make the measurement on a flat area of the feed belt.
Carefully tighten the trapezoidal belt, which must retain a normal degree of flexure (35mm of spread) (see figure 13).
Any excessive tension will cause premature wear on the drive shaft of the ring and pinion gear.
The diagram depicted in figure 14 displays the relationship between the speed of the conveyor belt and the rotational speed of the follower pulley (A in figure 13).

## 5.7. Electrical connection.

Check that the supply voltage corresponds with that of the motor. Once switched on, the belts should move towards the sewing unit. The machine must be coupled to the sewing unit and the conveyor.

**Fig: 15**



## 5.8. Adjusting the pressure of the feed belts.

This adjustments ensures that the bags are firmly held by the feed belts throughout their transfer. To modify the setting, undo the locknut located on the side and:

⇨ screw clockwise to increase the pressure, or

⇨ screw counter-clockwise to decrease the pressure.

After verifying, re-tighten the locknut. See figure 16.

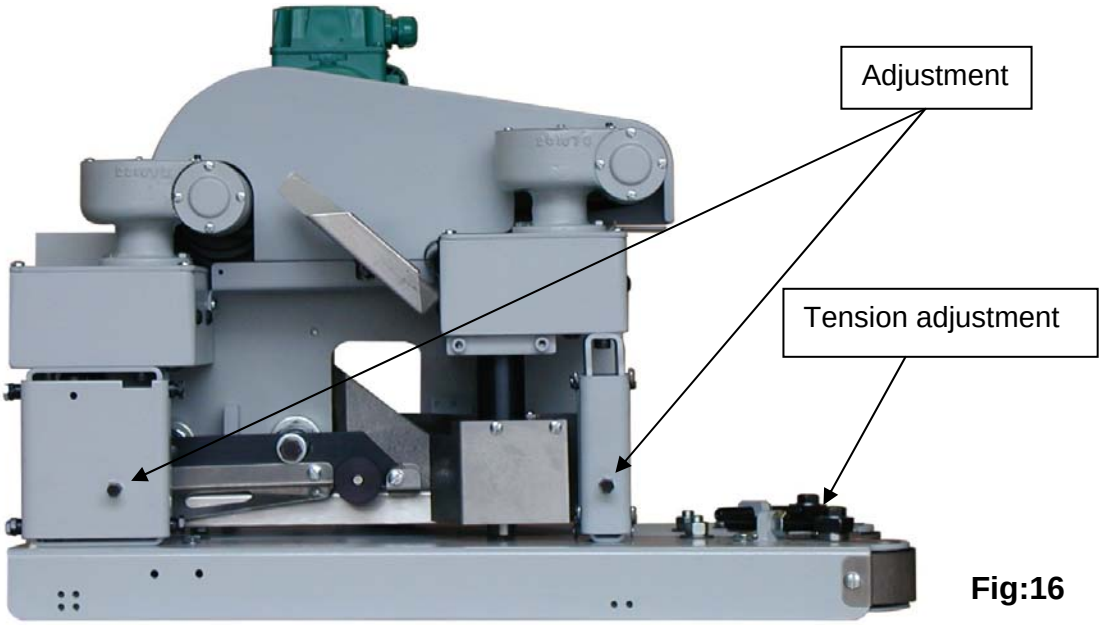



**Fig:16**

The tension of the two feed belts must be adjusted while the machine is at a standstill. Undo the axle of the farthest pulley and adjust the tension in the same sense as the buttonhole.

# 6. CREPE BINDER

## 6.1. Binder adjustment.

The binder must be adjusted for the width of the crepe trimming. It is set by moving plate A, which is screwed to the straight face (B), and which can be moved upwards or downwards. See figure 17.
For a slimmer crepe border, move the plate upward. For a broader border, move it downward. Make sure that the bend in the plate always rests on the general support. (H).

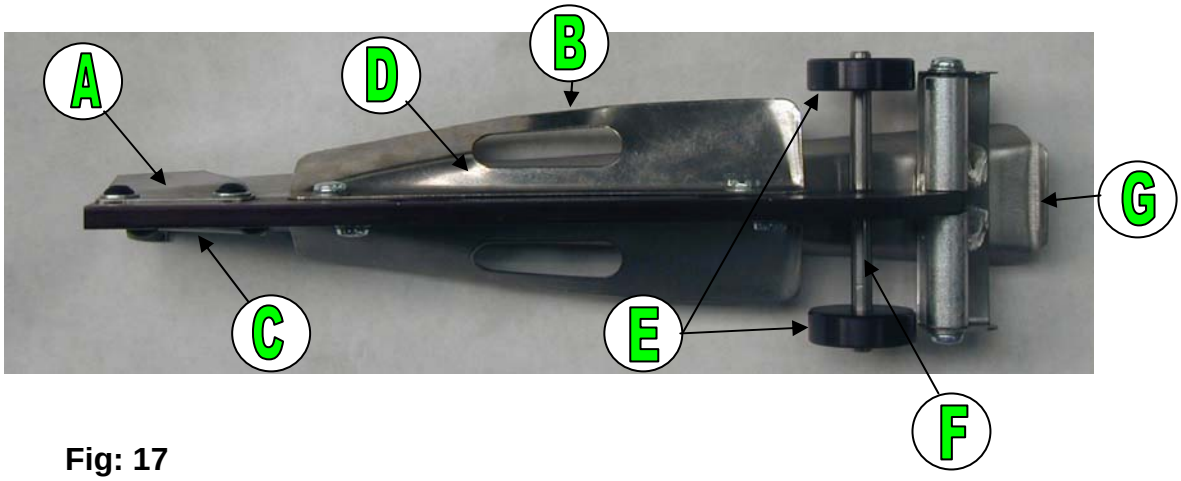



**Fig: 17**

The width of the crepe trimming must be restricted between 53 and 65 mm (for the 10520).
The trimming is guided by two flanges (E) along axis (F). The trimming must be centred. If not, the trimming will be guided towards the back or towards the front.

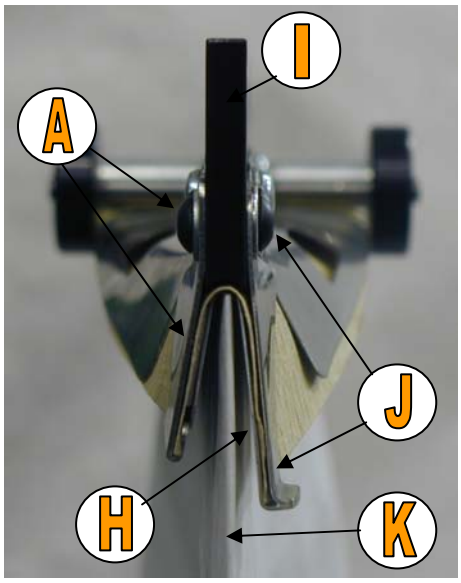



**Fig:18**

The distance between the support (I) and the guide (H) is restricted to the paper's thickness, while ensuring a good gliding action of the paper. This is adjusted with part (J).

The paper guide must be adjusted so that at the end of the binder, it pushes slightly against the bag, while the bag must be located in the middle of the central guide (G), see figure 17.

The height of the binder vis-à-vis the knives is adjusted with the H1032112 screws, below the general support 2601 (see exploded view of spare parts).

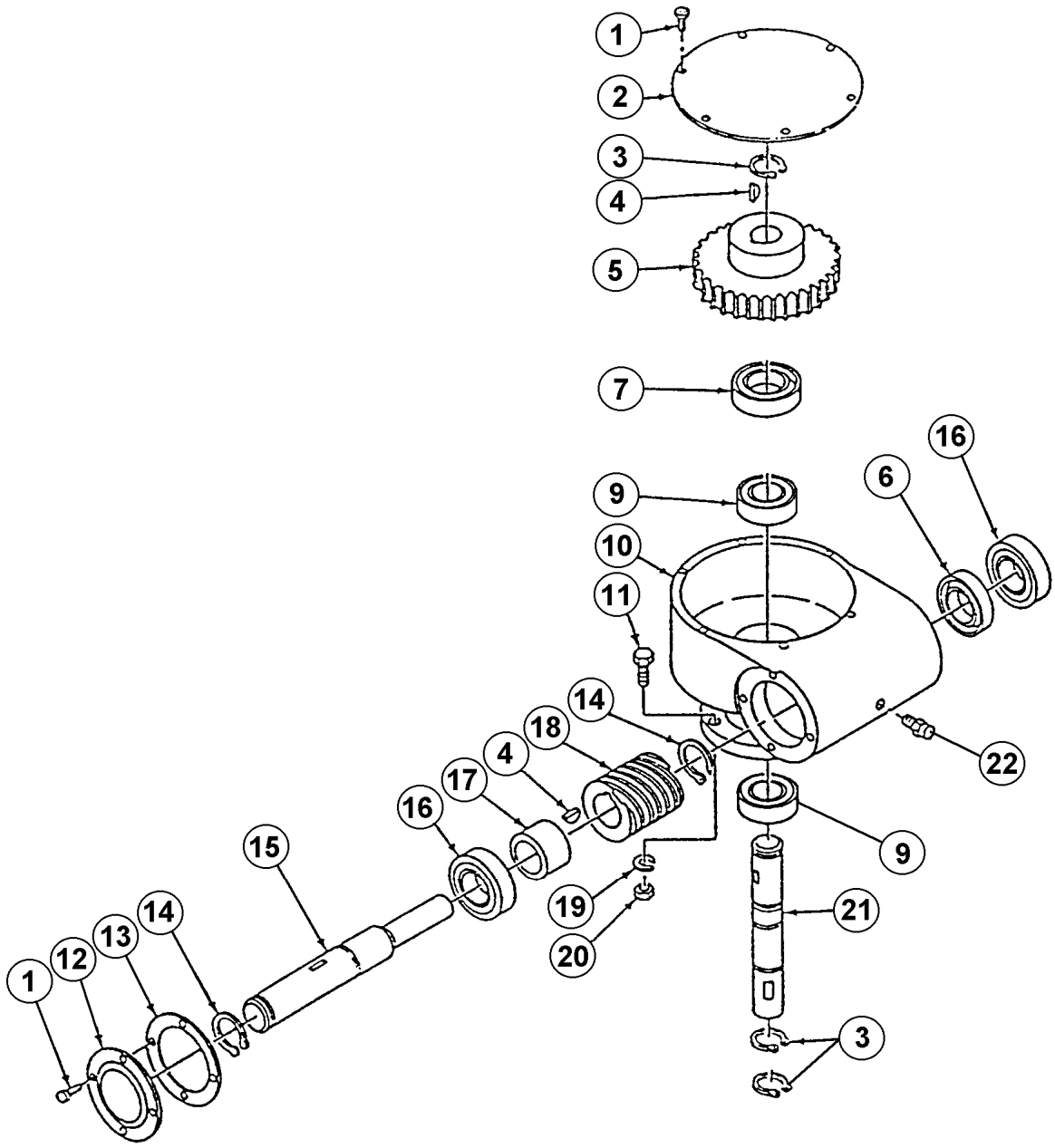
# 2700

# INFEED

# DRAWINGS AND SPARE PARTS LIST

When ordering spare parts, specify
1. the year the machine was manufactured
2. the reference code and description of the part
3. the type and model of machine

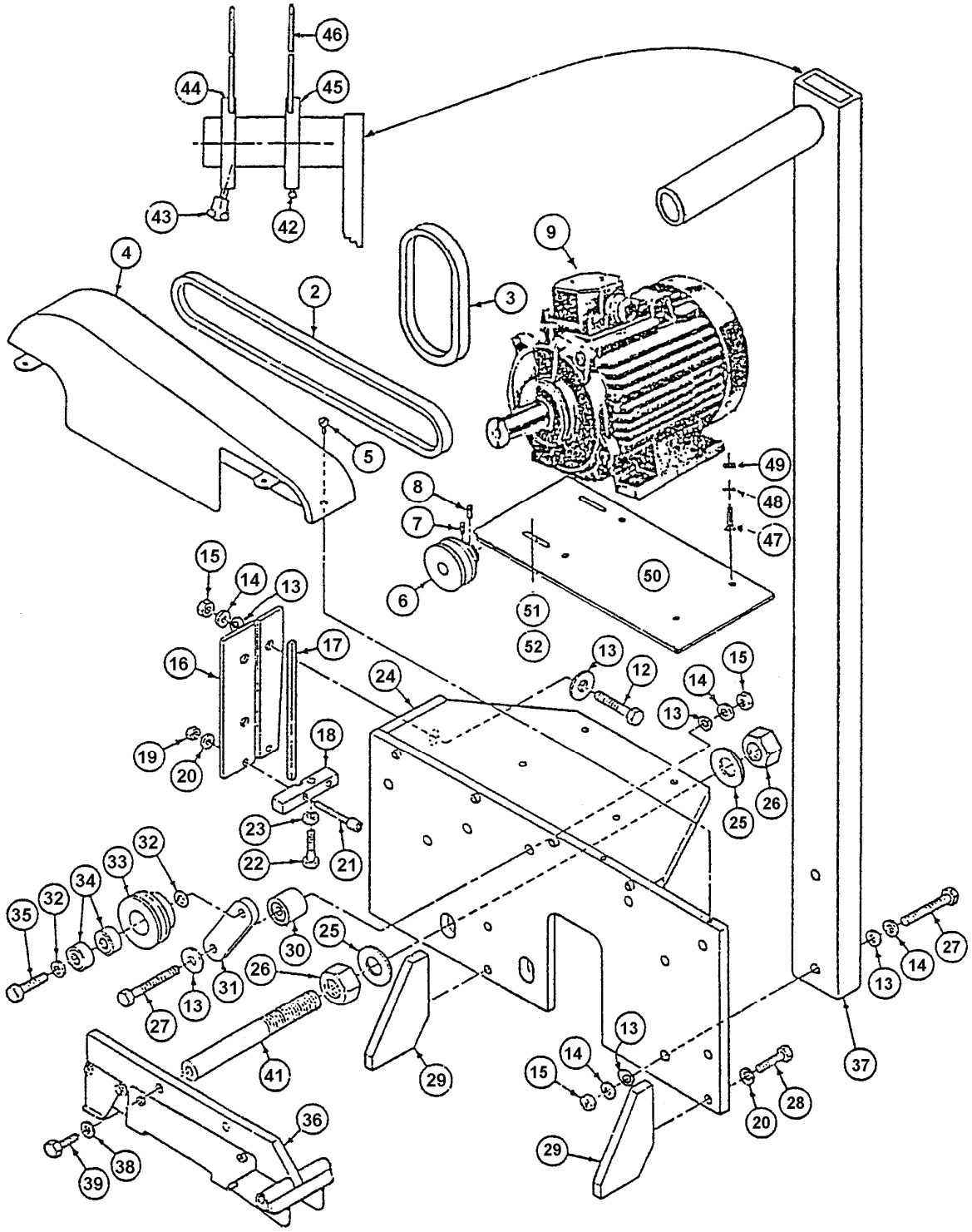
# 7. GEARBOX – BAG-FEEDER.



**GEARBOX – BAG-FEEDER.**

| Item | Reference | Description | Quantity |
|---|---|---|---|
| | | | |
| 1 | B 54014 | Screw binding head # 5-40 x1/4 | 10 |
| 2 | 3120-1 | Cover, box-gear | 1 |
| 3 | 3165 | Ring snap | 3 |
| 4 | 3192 | Key woodruff n°213 | 2 |
| 5 | 3146-2 | Gear worm | 1 |
| 6 | 4233 | Seal, oil | 1 |
| 7 | 3173 | Seal, oil | 1 |
| 8 | | | |
| 9 | 4236 | Bearing ball | 2 |
| 10 | 3107-3 | Box-gear | 1 |
| 11 | H 103234 | Hexagonal screw # 10-32 x 3/4 | 4 |
| 12 | 3193 | Cover shaft end | 1 |
| 13 | 3164 | Gasket, cover-shaft | 1 |
| 14 | 2542 | Ring snap | 2 |
| 15 | 3139-3 | Shaft, worm | 1 |
| 16 | 4235 | Bearing ball | 2 |
| 17 | 3140 | Sleeve shaft - worm | 1 |
| 18 | 3147-2 | Worm | 1 |
| 19 | WL 10 | Washer lock # 10 | 4 |
| 20 | NH 1032 | Hexagonal nut # 10-32 | 4 |
| 21 | 3174 | Shaft, gear-worm | 1 |
| 22 | 1-142-2 | Plug inspection oil level (no longer used) | 1 |

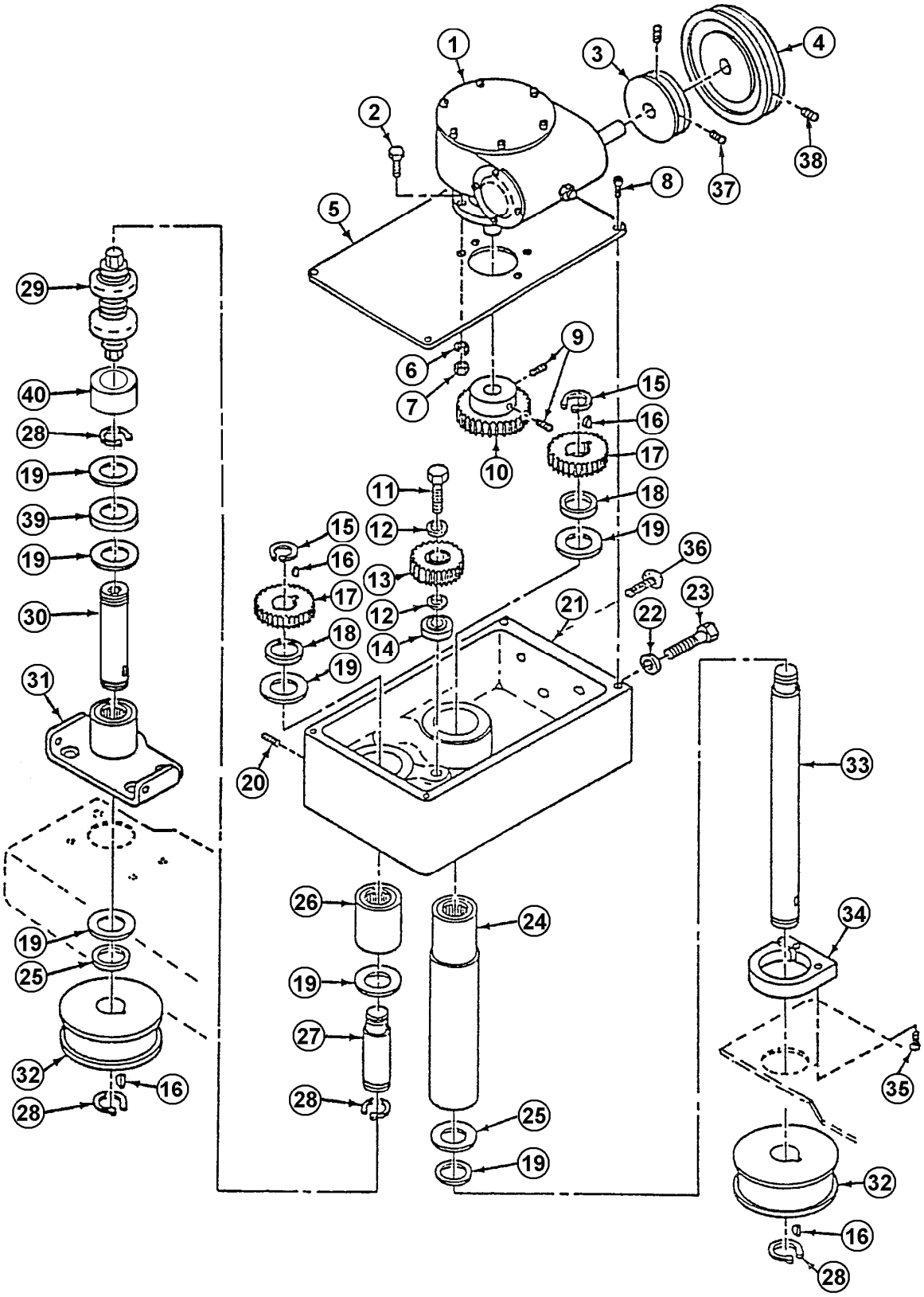
# 8. MOTORIZATION OF THE BAG FEEDER.



## MOTORIZATION OF THE BAG FEEDER.

| Item | Reference | Description | Quantity |
|---|---|---|---|
| 2 | P2653 | Belt, V (3L280) drive knifes | 1 |
| 3 | 3152-1 | Belt, V motor drive | 1 |
| 4 | 2775 | Guard, belt drive | 1 |
| | 2776 | Guard plate under belt | 1 |
| | 2777 | Guard, end belt drive | 1 |
| 5 | B103238 | Screw, BTN 10-32 x 3/8 | 10 |
| 6 | 1017-10 | Assy, adjustable pulley motor drive | 1 |
| 7 | SS1032516 | Screw, soc Set 10-32 x 5/16 | 4 |
| 8 | SS103218 | Screw, soc Set 10-32 x 1/8 | 1 |
| 9 | 3158-3 | Motor 0,18Kw 230/400VAC – 50Hz –IP55 | 1 |
| 11 | | | |
| 12 | H3816112 | Screw, Hex 3/8-16 x 1 ½ | 3 |
| 13 | WF38 | Washer flat 3/8 | 8 |
| 14 | WS38 | Washer spring, 3/8 | 6 |
| 15 | NH3816 | Nut, Hex , 3/8-16 | 5 |
| 16 | 2647 | Plate, Shim | 1 |
| 17 | 2648 | Key, 1/8 SQ | 1 |
| 18 | 2649 | Block, jack | 1 |
| 19 | NJ1420 | Nut, Hex , ¼-20 | 2 |
| 20 | WS14 | Washer spring, 1/4 | 2 |
| 21 | SC1420112 | Screw Soc Cap, ¼ -20 x 1 1/2 | 2 |
| 22 | H51618114 | Screw, Hex 5/16-18 x 1 ¼ | 1 |
| 23 | NH51618 | Nut, Hex , 5/16-18 | 1 |
| 24 | 2601 | Bracket, mounting | 1 |
| 25 | WF34 | Washer flat 3/4 | 4 |
| 26 | NH3416 | Nut, Hex , 3/4-16 | 4 |
| 27 | H38162 | Screw, Hex 3/8-16 x 2 | 3 |
| 28 | H142078 | Screw, Hex 1/4-20 x 7/8 | 4 |
| 29 | 2602 | Brace | 2 |
| 30 | 2641 | Spacer, idler | 1 |
| 31 | 2642 | Lever, idler | 1 |
| 32 | 3934 | Washer, idler | 2 |
| 33 | 2643 | Assy, Pulley-idler 1.92 00 x .88 bore | 1 |
| 34 | 4297 | Bearing Ball (idler pulley) | 2 |
| 35 | H3816114 | Screw, Hex 3/8-16 x 1 ¼ | 1 |
| 36 | 10520 | Assy, Folder tape (53-64mm) | 1 |
| 37 | 4826 | Weldment, tape reel support | 1 |
| 38 | WS38 | Washer spring, 3/8 | 2 |
| 39 | H381678 | Screw, Hex 3/8-16 x 7/8 | 2 |
| 40 | | | |
| 41 | 4814 | Rod, Mount- folder | 2 |
| 42 | SC1420114 | Screw Soc Cap, ¼ -20 x 1 ¼ | 1 |
| 43 | 4831 | Knob, hand | 1 |
| 44 | 4828 | Clamp, front reel tape | 1 |
| 45 | 4829 | Clamp, back reel tape | 1 |
| 46 | 4833 | Rod, clamp-reel | 4 |
| 47 | SF142058 | Screw, Soc flat, ¼-20 x 5/8 | 4 |
| 48 | WS14 | Washer spring, 1/4 | 4 |
| 49 | NH1420 | Nut, Hex , ¼-20 | 4 |
| 50 | 3113B-2 | Motor plate | 1 |
| 51 | H5161834 | Screw, Hex 5/16 - 18 x ¾ | 2 |
| 52 | WF516 | Washer flat 5/16 | 2 |
| | | | |

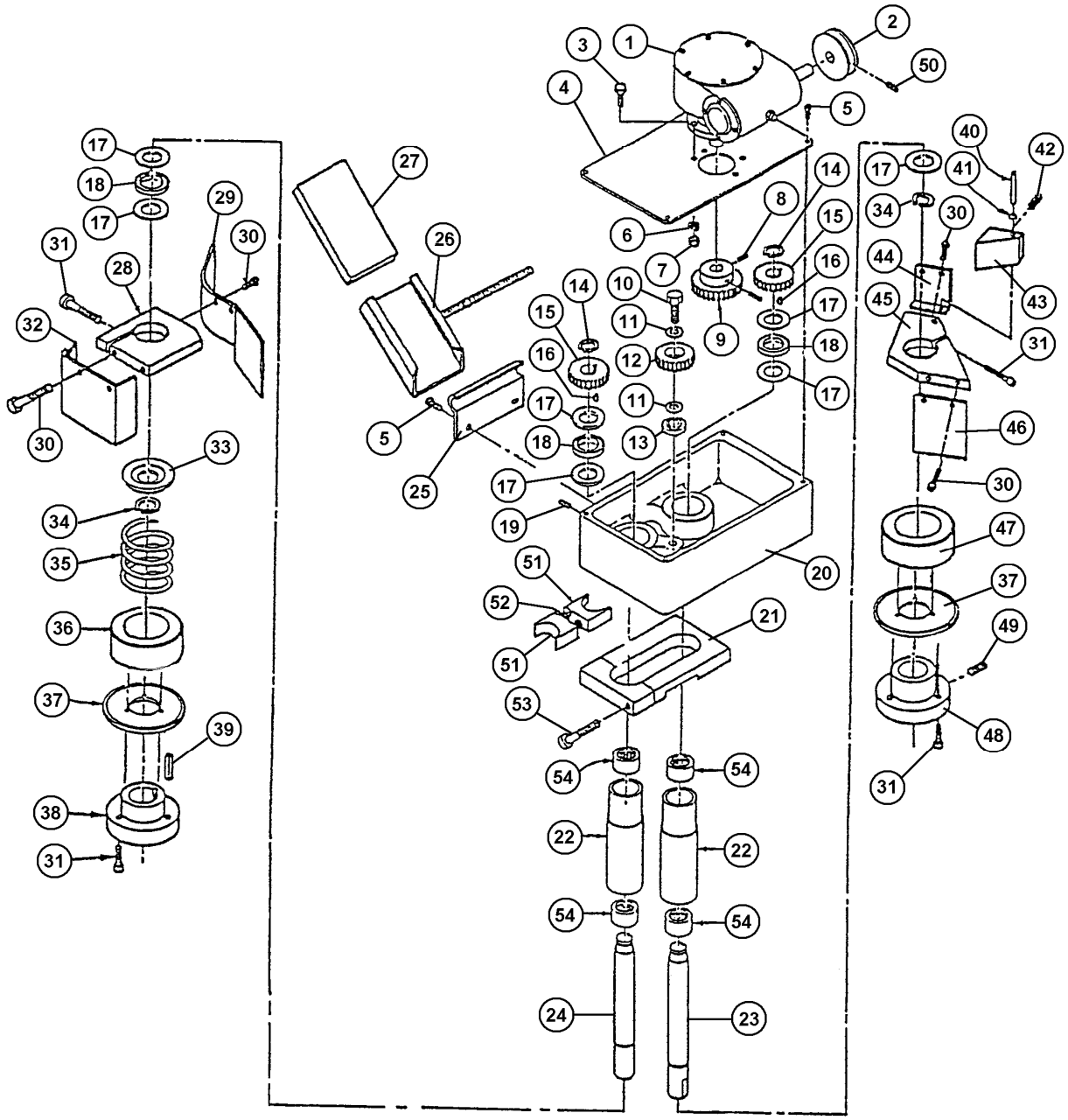
## 9. REAR GEARBOX.



**REAR GEARBOX.**

| Item | Reference | Description | Quantity |
|---|---|---|---|
| | | | |
| 1 | 4273 | Assy, Gear Box | 2 |
| 2 | H103258 | Screw, Hex 10-32 x 5/8 | 4 |
| 3 | 2645 | Pulley, 1-92 OD x ½ bore | 1 |
| 4 | 2654 | Pulley, 3,17 OD x ½ bore | 1 |
| 5 | 2633 | Cover, drive | 1 |
| 6 | WL10 | Washer lock #10 | 4 |
| 7 | NH1032 | Nut, Hex 10-32 | 4 |
| 8 | B103238 | Screw, BTN 10-32 x 3/8 | 4 |
| 9 | SS142038 | Screw Soc.Set 1/4-20 x 3/8 | 2 |
| 10 | 4222 | Gear, drive | 1 |
| 11 | H3816114 | Screw, Hex 3/8-16 x 11/4 | 2 |
| 12 | 3934 | Washer, idler | 2 |
| 13 | 4298 | Assy, Gear-idler | 1 |
| 14 | 2611 | Spacer, step | 1 |
| 15 | V2542 | Ring, Snap | 2 |
| 16 | T3192 | Key, Woodruff | 4 |
| 17 | T3155 | Gear, driven | 2 |
| 18 | 4212 | Spacer, gear | 2 |
| 19 | T3129 | Washer, Thrust | 7 |
| 20 | SS103258 | Screw Soc.Set 10-32 x 5/8 | 2 |
| 21 | 2605 | Housing, drive | 1 |
| 22 | WS38 | Washer, spring # 3/8 | 2 |
| 23 | H38161 | Screw, Hex 3/8-16 x 1 | 1 |
| 24 | 2604 | Assy, drive shaft tube w/bearings | 1 |
| 25 | 4213 | Spacer pulley | 2 |
| 26 | 4353 | Assy, tube w/bearings – upper | 1 |
| 27 | 4288 | Shaft drive-upper | 1 |
| 28 | T3167 | Ring, Snap | 4 |
| 29 | 4269 | Joint, universal-double | 1 |
| 30 | 4291 | Shaft, drive lower | 1 |
| 31 | 2673 | Assy, pivot w /bearings-lower | 1 |
| 32 | 2703 | Pulley, drive 2,88 OD x ,75 bore | 1 |
| 33 | 4285 | Shaft, drive lower | 1 |
| 34 | 2612 | Collar, guard | 1 |
| | SC103278 | Screw Soc.Cap 10-32 x 7/8 | 1 |
| 35 | SF103212 | Screw, soc flat 10-32 x 1/2 | 2 |
| 36 | SF381634 | Screw, soc flat 3/8-16 x 3/4 | 1 |
| 37 | SS103218 | Screw Soc.Set 10-32 x 1/8 | 2 |
| 38 | SS1032516 | Screw Soc.Set 10-32 x 5/16 | 2 |
| 39 | P4024 | Bearing thrust | 1 |
| 40 | 2728 | Seal, thrust bearing | 1 |

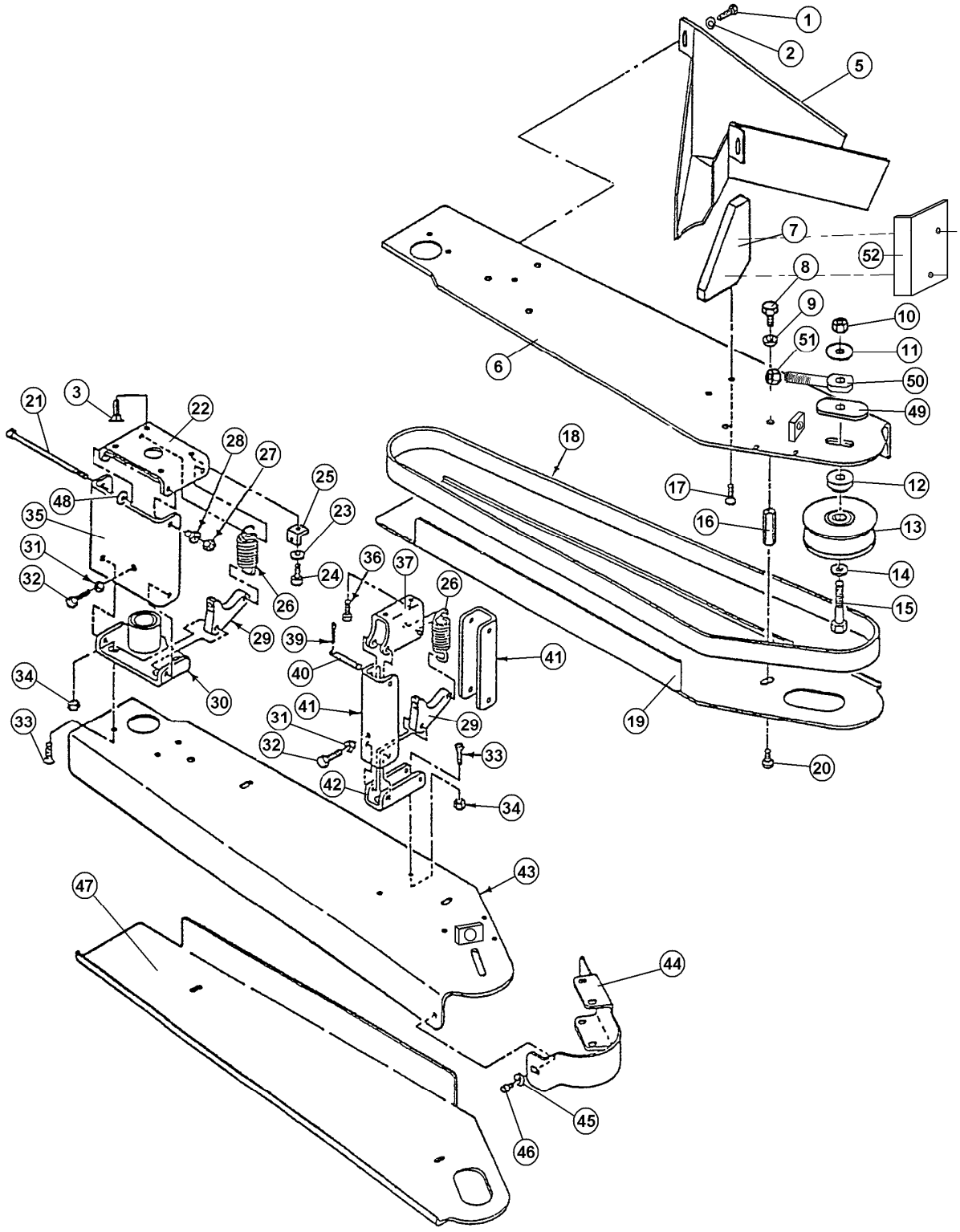
# 10. FRONT GEARBOX AND BLADES.



## FRONT GEARBOX AND BLADES.

| Item | Reference | Description | Quantity |
|---|---|---|---|
| 1 | 4273 | Assy, Gear Box | 1 |
| 2 | 2645 | Pulley, 1-92 OD x ½ bore | 1 |
| 3 | H103258 | Screw, Hex 10-32 x 5/8 | 4 |
| 4 | 2633 | Cover, drive | 1 |
| 5 | B103238 | Screw, BTN 10-32 x 3/8 | 4 |
| 6 | WL10 | Washer lock #10 | 4 |
| 7 | NH1032 | Nut, Hex 10-32 | 4 |
| 8 | SS142038 | Screw Soc.Set 1/4-20 x 3/8 | 2 |
| 9 | 4222 | Gear, drive | 1 |
| 10 | H3816114 | Screw, Hex 3/8-16 x 11/4 | 1 |
| 11 | 3934 | Washer, idler | 2 |
| 12 | 4298 | Assy, Gear-idler | 1 |
| 13 | 2611 | Spacer, step | 1 |
| 14 | V2542 | Ring, Snap | 2 |
| 15 | T3155 | Gear, driven | 2 |
| 16 | 3192 | Key, Woodruff | 2 |
| 17 | 3129 | Washer, Thrust | 7 |
| 18 | 4024 | Bearing thrust | 3 |
| 19 | SS103258 | Screw Soc.Set 10-32 x 5/8 | 4 |
| 20 | 2605 | Housing, drive | 1 |
| 21 | 2664 | Assy, retainer plate-drive tubes | 1 |
| 22 | 2603 | Assy, knife drive tube w/bearings | 2 |
| 23 | 2609 | Shaft knife right | 1 |
| 24 | 2610 | Shaft knife left | 1 |
| 25 | 2737 | Guide, tape | 1 |
| 26 | 2740 | Weldment, slide-tabe lubrication | 1 |
| 27 | 2741 | Wax, tape-lubricator | 1 |
| 28 | 2762 | Collar, guard-right | 1 |
| 29 | 2763 | Guard, knife left | 1 |
| 30 | SB83238 | Screw Soc Btn 8-32 x 3/8 | 4 |
| 31 | SC103278 | Screw, Soc Cap 10-32 x 7/8 | 8 |
| 32 | 2765 | Guard, knife left | 1 |
| 33 | 2629 | Seat, spring | 1 |
| 34 | 3167 | Ring, Snap | 1 |
| 35 | 2630 | Spring, knife | 1 |
| 36 | 2764 | Hub feed - left | 1 |
| 37 | 2626 | Knife | 2 |
| 38 | 2761 | Hub, knife right | 1 |
| 39 | 2772 | Key | 1 |
| 40 | 18137 | Pin cotter-hair | 4 |
| 41 | 11828 | Ring “O” | 2 |
| 42 | 2774 | Spring, block | 2 |
| 43 | 2759 | Block | 1 |
| 44 | 2760 | Bracket | 1 |
| 45 | 2756 | Collar, guide right | 1 |
| 46 | 2757 | Guard, knife right | 1 |
| 47 | 2758 | Hub, feed- right | 1 |
| 48 | 2755 | Hub, knife- right | 1 |
| 49 | SS142012 | Screw Soc.Set ¼ -20 x ½ | 2 |
| 50 | SS142014 | Screw Soc.Set ¼ -20 x 1/4 | 2 |
| 51 | 2729 | Spacer, drive tube | 2 |
| 52 | H103212 | Screw, Hex 10-32 x 1/2 | 2 |
| 53 | SC1420112 | Screw, Soc Cap 1/4-20 x 11/2 | 2 |
| 54 | 3142-1 | Needle bearing | |

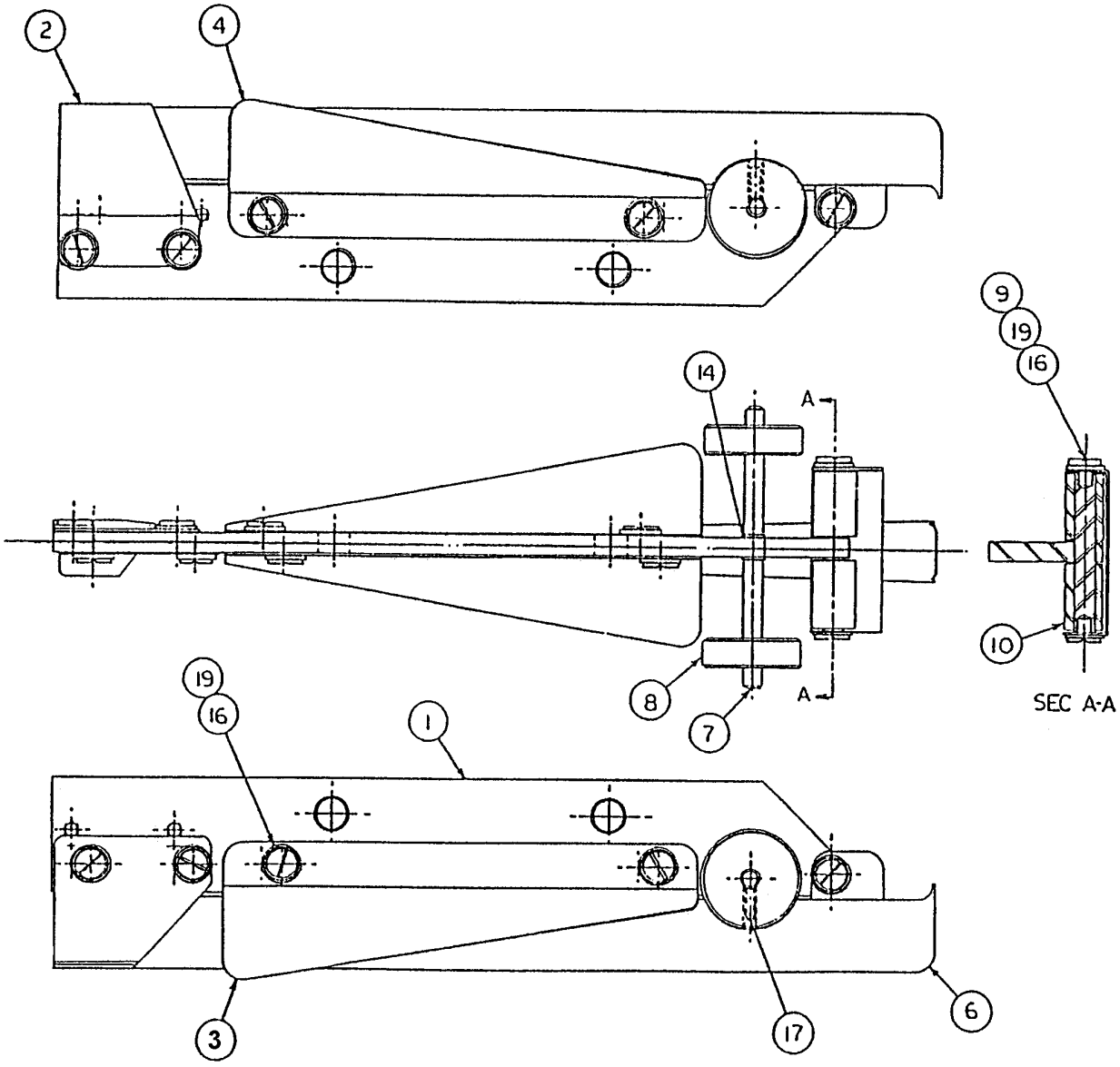
# 11. BAG-FEEDER.



## BAG-FEEDER

| Item | Reference | Description | Quantity |
|---|---|---|---|
| 1 | B103238 | Screw, BTN 10-32 x 3/8 | 2 |
| 2 | WS10 | Washer, spring # 10 | 2 |
| 3 | SF142078 | Screw, soc flat ¼-20 x 7/8 | 4 |
| 4 | | | |
| 5 | 2768 | Weldment, chute | 1 |
| 6 | 2706 | Guard, right-taper | 1 |
| 7 | 2602 | Brace | 2 |
| 8 | H142058 | Screw, Hex ¼-20 x 5/8 | 4 |
| 9 | WS14 | Washer, spring # 1/4 | 4 |
| 10 | NH3816 | Nut, Hex 3/8-16 | 2 |
| 11 | WS38 | Washer, spring # 3/8 | 2 |
| 12 | 2611 | Spacer, step | 4 |
| 13 | 2702 | Assy, idler pulley w/bearings | 4 |
| | 4226 | Bearing for pulley 2702 | |
| 14 | 3934 | Washer, idler | 4 |
| 15 | H3816134 | Screw, Hex 3/8-16 x 1 3/4 | 4 |
| 16 | 2624 | Spacer, hex | 4 |
| 17 | SF142058 | Screw, soc flat 1/4-20 x 5/8 | 4 |
| 18 | 2701 | Belt, variable speed. | 2 |
| 19 | 2704 | Guard, under- right | 1 |
| 20 | SB142038 | Screw Soc Btn ¼-20 x 3/8 | 4 |
| 21 | 2723 | Assy, rod-pivot | 2 |
| 22 | 2614 | Pivot, upper rear | 1 |
| 23 | WS14 | Washer, spring # 1/4 | 5 |
| 24 | SC142058 | Screw Soc.Set ¼ -20 x 5/8 | 1 |
| 25 | 2655 | Bracket, spring (hook) | 1 |
| 26 | 2670 | Spring, extension | 2 |
| 27 | NH1032 | Nut, Hex 10-32 | 4 |
| 28 | 2722 | Pivot, hex | 2 |
| 29 | 4294 | Lever, spring | 2 |
| 30 | 2673 | Assy, pivot w/bearings - lower | 1 |
| 31 | NH1032 | Nut, Hex 10-32 | 2 |
| 32 | H10321 | Screw, Hex 10-32 x 1 | 2 |
| 33 | SF142012 | Screw, soc flat ¼-20 x 1/2 | 5 |
| 34 | NH1420 | Nut, Hex 10-32 | 5 |
| 35 | 4382 | Assy, swing channel | 1 |
| 36 | SC142034 | Screw, Soc Cap 1/4-20 x 3/4 | 2 |
| 37 | 2618 | Pivot, upper - front | 1 |
| 39 | 18137 | Pin, cotter – hair | 8 |
| 40 | 2621 | Pin, pivot – front | 4 |
| 41 | 2620 | Channel, front & rear | 2 |
| 42 | 2622 | Pivot, lower – front | 1 |
| 43 | 2707 | Guard, left-taper | 1 |
| 44 | 2695 | Guard, belt – front | 1 |
| 45 | WF10 | Washer flat #10 | 6 |
| 46 | SB103214 | Screw Soc Btn 10-32 x 1/4 | 6 |
| 47 | 2705 | Guard, under-left | 1 |
| 48 | | | |
| 49 | 2727 | Cover, bearing | 2 |
| 50 | 66291 | Eye bolt, swing 3” LG | 2 |
| 51 | NL3816 | Nut, lock 3/8-16 | 2 |
| 52 | 14777 | Plate, protection knife front | 1 |

## 12. CREPE BINDER MODEL 10520.



**CREPE BINDER MODEL 10520.**

| Item | Reference | Description | Quantity |
|---|---|---|---|
| 1 | 10487 | Main bracket, Spine folder | 1 |
| 2 | 10508 | Tab, folder | 1 |
| 3 | 10509 | Blade, folder – left | 1 |
| 4 | 10510 | Blade, folder - right | 1 |
| 5 | | | |
| 6 | 10512 | Sub-assy, tab liner – narrow | 1 |
| 7 | 10513 | Rod, guide | 1 |
| 8 | 10514 | Guide, tab | 2 |
| 9 | 11214 | Stub, shaft | 1 |
| 10 | CA1105 | Roller | 2 |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | 4326 | Ring, snap – 1/4 | 2 |
| 15 | | | |
| 16 | B103214 | Screw Btn 10-32 x 1/4 | 10 |
| 17 | SS103238 | Screw Soc.Set 10-32 x 3/8 | 2 |
| 18 | | | |
| 19 | WF10 | Washer flat #10 | 10 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |