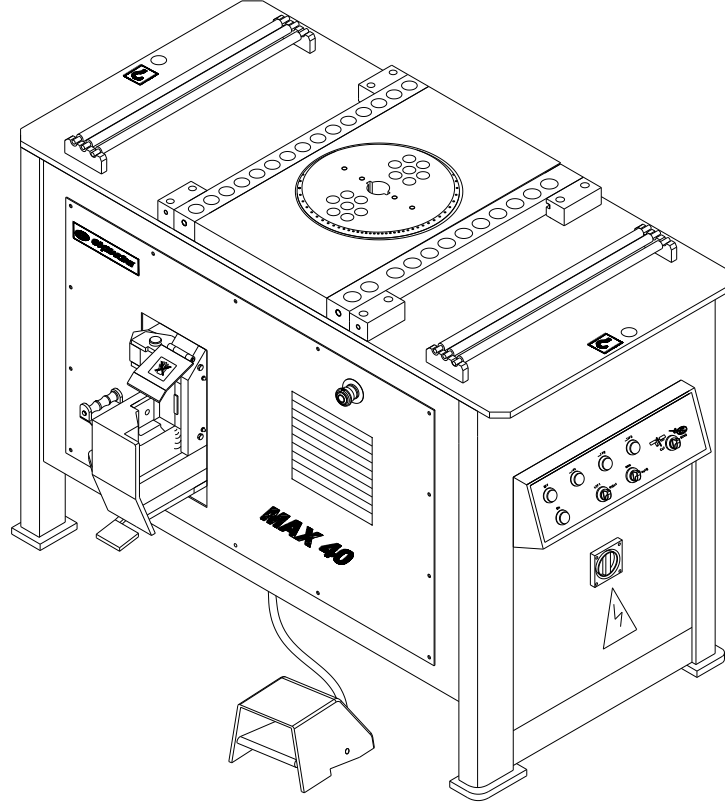
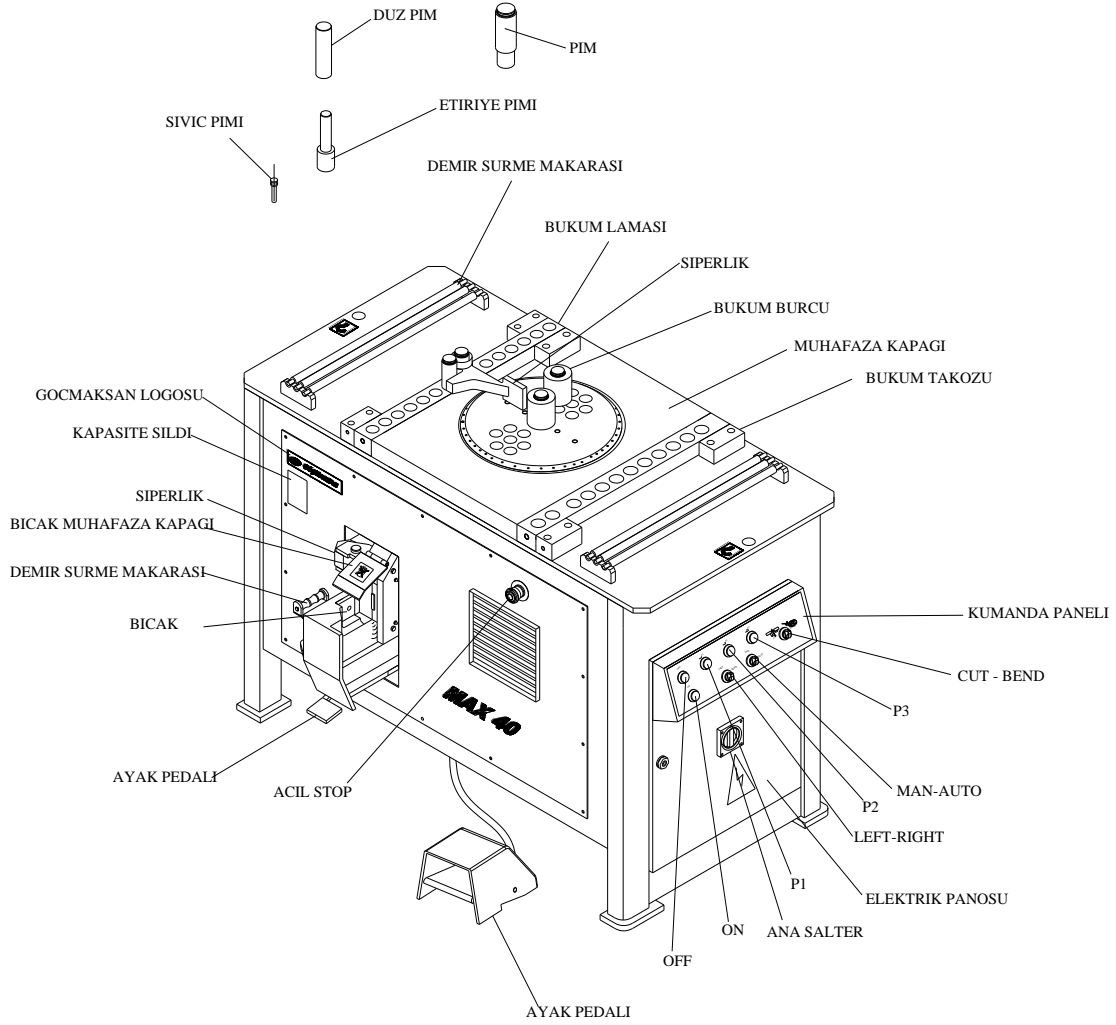
	Name	COMBINED BENDING & CUTTING MACHINE FOR CONSTRUCTION IRON (Operating & Maintenance Manual)	Date	05.02.2004
	Model	MAX 40	Page No	22



**MAX 40 COMBINED BENDING & CUTTING MACHINE
FOR CONSTRUCTION IRON
OPERATING & MAINTENANCE MANUAL**



GÖÇMAKSAN



MAX 40 Combined Cutting And Bending Machine for Construction Iron is designed and manufactured only for bending & cutting metallic bar materials. All other purposes of use are not allowed. This machine can be operated with different optional apparatus for various shapes of bending. In order to get the best output from your **MAX 40** locate it in such a position so as to be operated easily, and to provide more efficient work from the Operator.

Therefore, the site where the machine will be operated is to be near the storage area of construction iron, and to be covered with a shed, which would be more convenient. We recommend you to locate workbenches in both sides of the machine. The length of each bench is to be the longest length of the material to be bent / cut. By means of support of these benches, the Operator will be able to bend / cut any kinds of material without lifting and turning over them, and thus the possibility of more productive work may be obtained from the Operator.

Important Warning

- Prior to operate the machine read through this Operating & Maintenance Manual, carefully.
- Only the qualified personnel are allowed to operate the machine.
- Disconnect the power prior to make checks, maintenance, lubrication, and/or adjustments.
- Observe all guidelines provided in this Operating & Maintenance Manual.

1. INSTALLATION PROCEDURES

- 1.1 Level the machine on a flat and sound ground **(Figure 1)**.
- 1.2 Made the power connection by a qualified electrician.

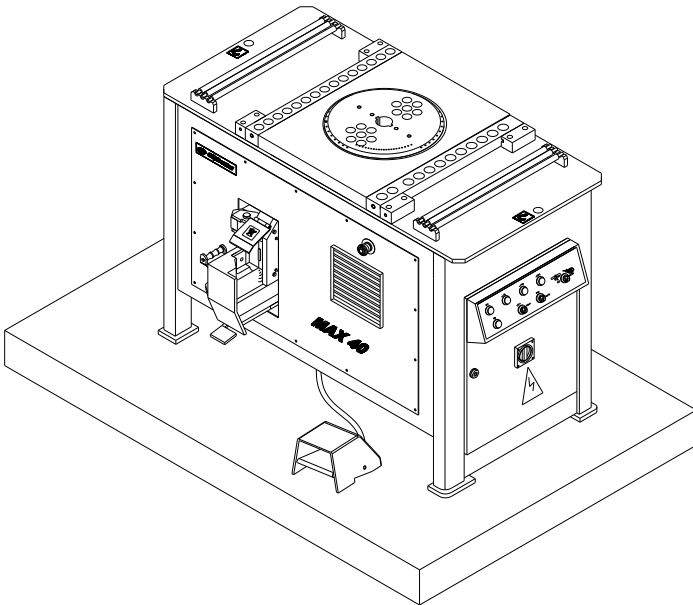
Note: Power Connection

- 1.3 Plug on the power supply cord of 5x4 mm² to the feeding line of main power.
- 1.4 Grounding is to be made for safe. Do not operate the machine without grounded power.

Grounding Connection: Follow the procedure below:

Connect one end of the ground cable to a copper wire (minimum 16 mm) so as to ensure electrical conductivity. The other end of the cable is to be connected to a tube having ability of conductivity dipped sufficiently into the ground (into the damp soil, preferably), or to a copper plate buried under the soil as deeper as possible.

FIGURE : 1

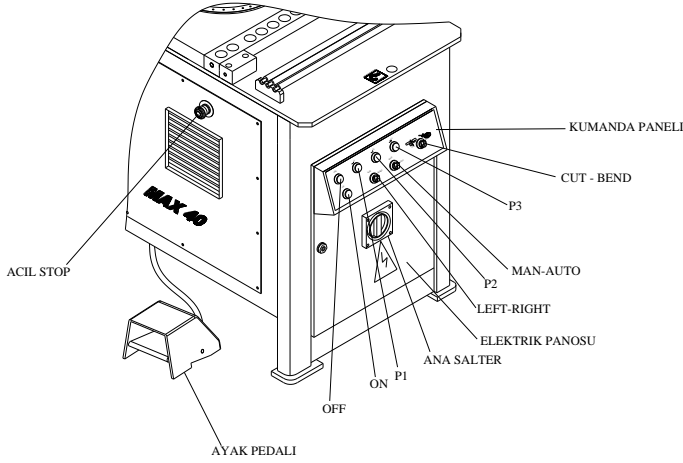


1.2. START UP PROCEDURE

- 2.1 Check and ensure that the machine is installed in accordance with instructions. Remove all parts (including bending apparatus) from the top surface of the machine.
- 2.2. Turn the switch (LEFT/STOP/RIGHT) to the LEFT or RIGHT, and the switch (MAN-AUTO) to the MAN position, and determine the direction of rotation of the machine by pressing the foot pedal down.

Note: The clockwise rotation is accepted as the right rotation and the counter clockwise rotation as the left from the front view (the control panel side) of the machine. If the machine rotates counter clockwise in comparison to the turning direction of switch, it means that the phases of power network are reverse. This situation will not create any problem for the operation of machine. In such cases, you may turn the control switch (LEFT-STOP-RIGHT) to the LEFT or RIGHT, or you may change terminals of the phases by means of a qualified electrician. Start to make bending adjustments by following determination of rotation.

FIGURE 2 Control Buttons



2 . TECHNICAL SPECIFICATIONS

Machine Cutting Capacity:

Piece	Strength of Material		
	45 kg/mm ²	65 kg/mm ²	85 kg/mm ²
1	• Ø36	• Ø32	• Ø28
1	• Ø24	• Ø20	• Ø18
2	• Ø18	• Ø16	• Ø14
3	• Ø16	• Ø14	• Ø12
3	• Ø14	• Ø12	• Ø10
4	• Ø12	• Ø10	• Ø8
5	• 10	• Ø8	• Ø6
1	▪ 30	▪ 24	▪ 20
2	▪ 20	▪ 18	▪ 16
3	▪ 16	▪ 14	▪ 12
4	▪ 14	▪ 12	▪ 10
1	▪ 70 x 12	▪ 70 x 10	▪ 70 x 8
2	▪ 60 x 15	▪ 60 x 10	▪ 60 x 8
3	▪ 50 x 15	▪ 50 x 12	▪ 50 x 10

Machine Bending Capacity

Steel Quality	Diameter / Number Can Be Bended				
45 kg/mm ²	Ø 36x1	Ø 18x2	Ø 14x2	Ø 9x4	Ø 6x6
65 kg/mm ²	Ø 32x1	Ø 16x2	Ø 14x2	Ø 9x3	Ø 6x4
85 kg/mm ²	Ø 28x1	Ø 12x2	Ø 9x2	Ø 9x3	Ø 4x6

Model : MAX 40

Name : Combined Bending & Cutting Machine for Construction Iron

Machine Dimensions :

Width : 83 Cm
Length :92 Cm
Height : 85 Cm
Weight : 407 Kg

Size of Cutting Blades :

Width : 75 mm
Length : 75 mm
Thickness : 17 mm

Motor Specifications :

Power : 3 kW
Rotation : 1400 rpm
Voltage : 380 V
Frequency : 50 Hz

3. APPARATUS AND TOOLS SUPPLIED WITH THE MACHINE

- Pin : 4 ea
- Stirrup Pin : 1 ea
- Straight Pin : 1 ea
- Bending Sleeves 4 ea
- Switch Pin : 3 ea
- Retainer : 1 ea

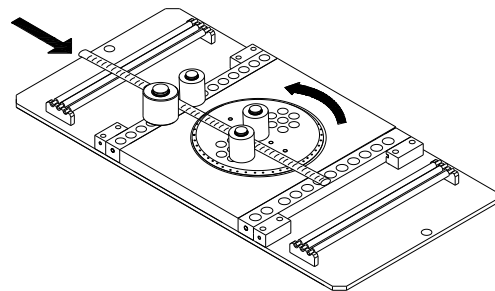
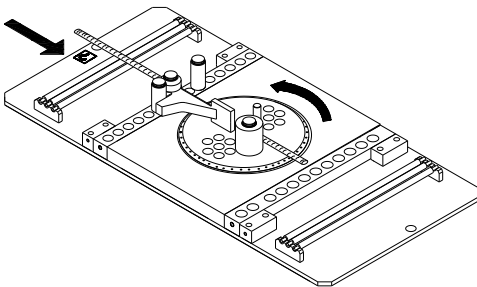
Proper Fixing Forms of Construction Iron onto the Machine

The fixing form of material to be bent onto the Machine by using the retainer

The fixing form of material to be bent onto the machine by using the bending sleeves.

FIGURE : 3

FIGURE: 4



The fixing form of material to be bent onto machine by using the bending sleeves in Multiple bending

The fixing forms of material to be bent onto the machine by using retainer in Multiple bending

FIGURE : 5

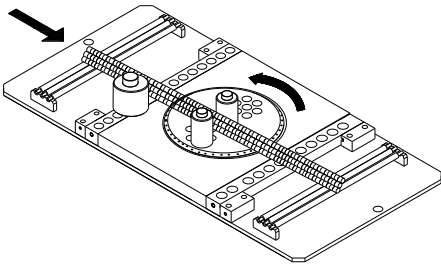
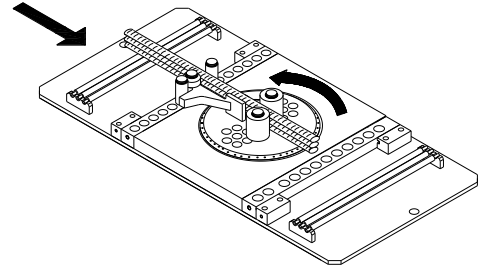


FIGURE : 6



Improper Fixing Forms of Construction Iron onto the Machine (Bending Mode)

The improper fixing form of single material to be bent onto the machine by using the bending sleeves

The improper fixing form of single material to be bent onto the machine by using the retainer.

FIGURE : 7

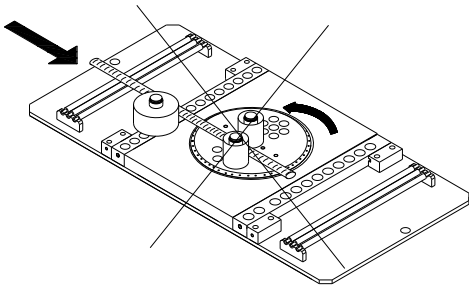


FIGURE : 8

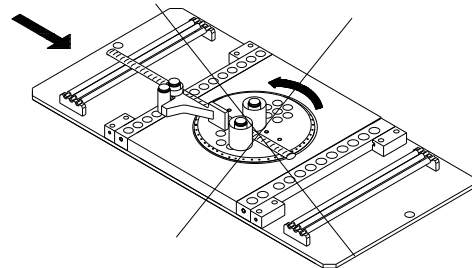


FIGURE : 9

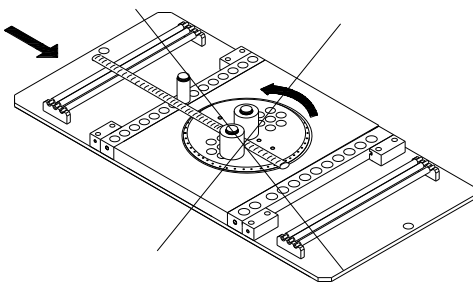
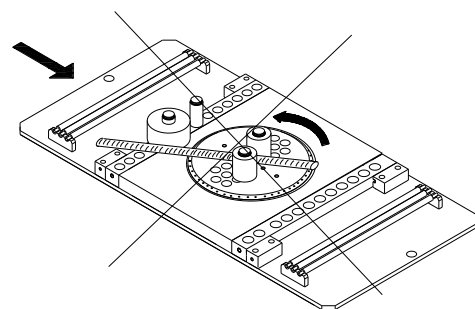


FIGURE : 10

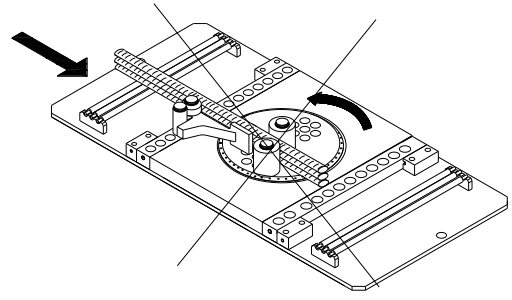
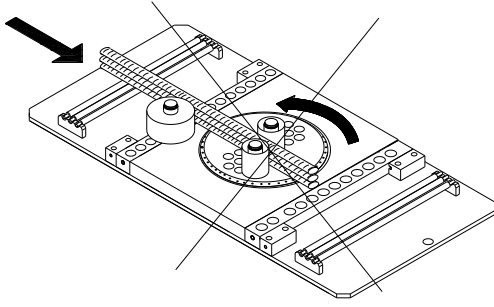


The improper fixing form of multiple material to be bent onto the machine by using the Bending sleeves

The improper fixing form of multiple material to be bent onto the machine by using the retainer

FIGURE : 11

FIGURE : 12

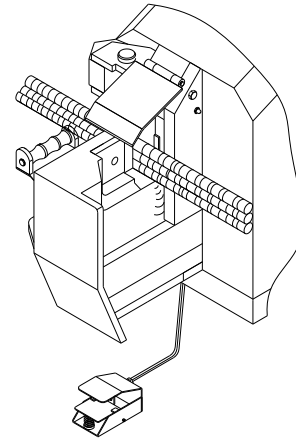
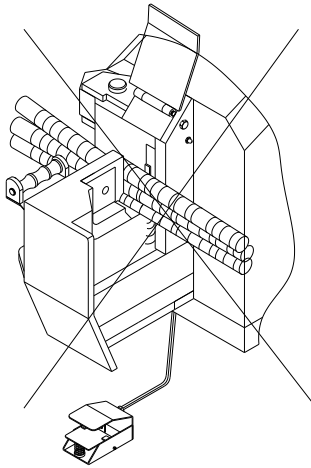


Improper Fixing Forms of Construction Iron onto the Machine (Cutting Mode)

Cutting should be done by lining the material onto each other properly and withstanding the material to the blades and rollers **(Figure 1.2)**

Figure : 1.1

Figure: 1.2

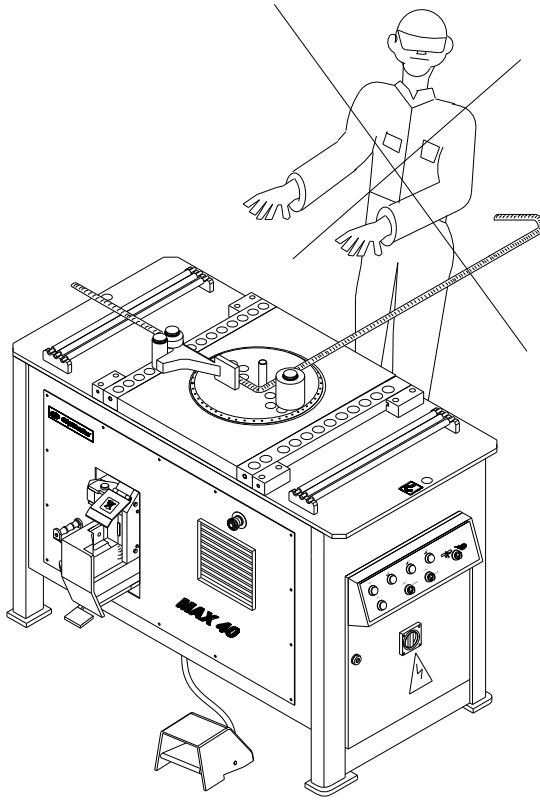


Improper Cutting Forms

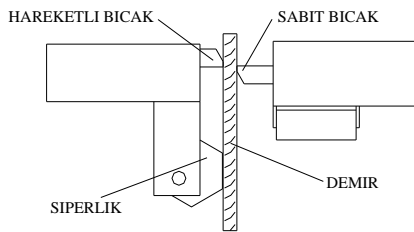
Proper Cutting Forms

Always keep the Blade Protection Cover closed during cutting on the machine

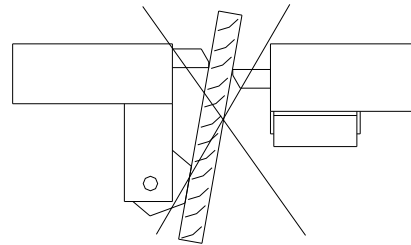
Figure : 13



Fixing form of the material

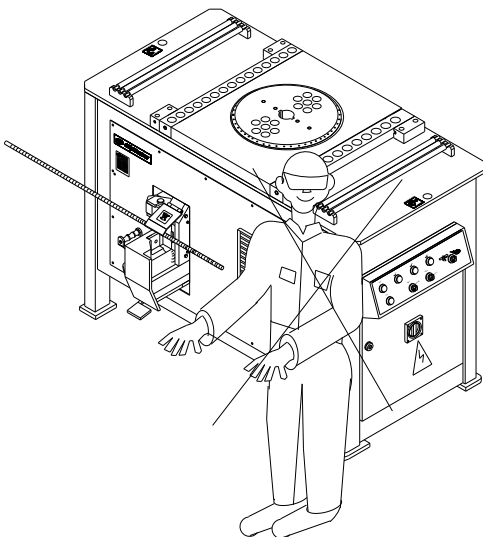


CORRECT CUTTING



INCORRECT CUTTING

Figure : 14



4. GUIDELINES FOR SAFE AND EFFICIENT USE

- ▼ Do not allow the people standing in front of the machine during bending process. Keep those out of the machine. **Figure:13**
- ▼ Remove all foreign materials such as hammers, adzes, measuring tapes, callipers, levers and/or similar construction tools among the bending apparatus excluding the material to be bent from the top surface of the machine.
- ▼ Do not operate the machine when it is wet.
- ▼ Do not try to make bending using the measurements, dimensions or quantities other than those specified in the name plate.
- ▼ In multiple bending, put the construction iron material in number specified in the name plate one over another, support and fix them against the retainer or bending sleeves, and then bend them. Do not try to make bending other than that of specified. **(Figure : 11-12)**
- ▼ Do not operate the machine when the cover of electric panel is opened.
- ▼ Do not change the electrical adjustments made in ex works.
- ▼ Do not operate the machine without grounded power.
- ▼ Do not operate the machine when protective covers are opened..
- ▼ Do not allow the machine to be operated by those other than the qualified operators.
- ▼ Do not operate the machine without lubrication oil.
- ▼ Do not allow removing the warning labels stuck onto the machine.
- ▼ Do not allow to use the spare parts and apparatus other than the genuine ones manufactured by the Göçmaksan.
- ▼ Do not try to make bending by using the bent, distorted and cracked apparatus, and/or the sleeves having the inner diameter enlarged.
- ▼ Do not try to make bending material in improper forms. **(Figure 7, 8, 9, 10, 11 and12)**
- ▼ Do not use pressurised air to clean the machine.
- ▼ In case of need to open the lid of the electric panel, ensure that main switch is to be off.
- ▼ Fix the material onto the machine properly. Observe the fixing forms shown in **Figure 3,4, 5, and 6** by using the retainer or bending sleeves and pins.
- ▼ Always keep the shield closed during cutting on the machine **(Figure 1.3 - 1.4)**
- ▼ The power should be disconnected prior to changing the cutters, and making checks, maintenance, lubrication, and/or adjustments.
- ▼ Do not allow the people standing in front of the machine during cutting process. Keep those out of the machine. (Figure:14)
- ▼ Keep your hands and/or arms away from the blades while the machine is operating.
- ▼ Remove all foreign materials such as hammers, adzes, measuring tapes, calipers, levers and/or similar construction tools among the cutting blades.
- ▼ Do not try to make cutting using the measurements, dimensions or quantities other than those specified in the nameplate.
- ▼ Support and fix the construction iron material to be cut between the tool cutters and a retainer. Do not try to make cutting other than that of specified..
- ▼ In multiple cutting, put the construction iron material one over another in number specified in the nameplate, and place them between the tool cutters, and support and fix them by means of the retainer. Do not try to make cutting other than that of specified.
- ▼ Do not allow cutting with blunt and cracked blades.
- ▼ Observe the conditions for loading, transportation and unloading of the machine. **(Figure : 15)**

5. WARRANTY

The producer will only accept the warranty and responsibility subject to the following terms and conditions:

- ▼ Observe all protective precautions.
- ▼ Observe the warning signs.
- ▼ Do not operate the machine without grounded power.
- ▼ Do not replace failure parts and apparatus other than the genuine ones manufactured by the Göçmaksan.
- ▼ Observe the instructions specified in the safety guidelines.
- ▼ Observe the guidelines for safe and efficient use.
- ▼ Observe the instructions for installation.
- ▼ Observe the conditions for loading, transportation, and unloading of the machine.
- ▼ Operate the machine by qualified operators.
- ▼ Observe the measurements, dimensions and the quality of material specified in the nameplate.
- ▼ Use always the machine in conformance with it's production purposes.
- ▼ The power connection is to be made by a qualified electrician.
- ▼ Do not allow the machine to be operated when any of its part is disassembled.
- ▼ Do not change the motor.
- ▼ Observe the instructions for proper service and maintenance.
- ▼ Do not try to bend/cut the material in larger size than the one specified.
- ▼ Follow always the instructions for proper bending and cutting forms.
- ▼ Do not operate the machine without lubrication oil. Use Mechanical Gear Oil Number 90 and 140 for bending and Hydraulic Oil Number 37. Always change the Hydraulic oil in time .

6. PROTECTIVE PRECAUTIONS

6.1. Protective Cloths

- Protective helmets
- Goggles
- Boots with steel heads.
- Gloves
 - Use the above protective material when you work on the machine. In case of not use these protective materials note that there is always a risk of injury such as hand-cut and/or hand-capture.

6.2. Working Garments

Note that the following are the things and garments **not convenient** to wear against the risk of injury and capture during working with the machine: long hairs, dresses with long arms, identity disks or jewellery, long working aprons etc.

7. TRANSPORTATION OF THE MACHINE

Utilize a forklift and/or a mobile, or a bridge-crane for transporting and lifting the machine. Use forklifts only when the machine is in a container. Put the machine in a container using wooden wedges under the machine so as they do not touch on the bottom of a container. Use steel ropes, chains and/or polyester tackle-block for lifting the machine. Use the lifting collets for crane hook to lift it without its container. Employ experienced or specialized people or subcontractors for lifting purposes.

WARNING !!!:

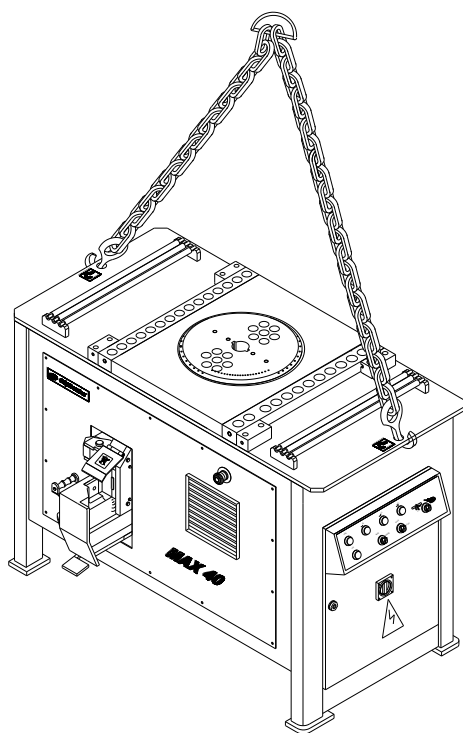
Move the machine without causing any vibration. Do not transport it in wet conditions.

Please forward to the producer a report for the parts lost or damaged during transportation.

- Take maximum capacities of transportation and lifting machinery and equipment into your consideration.
- Take the centre of gravity of the machine into consideration during lifting it.

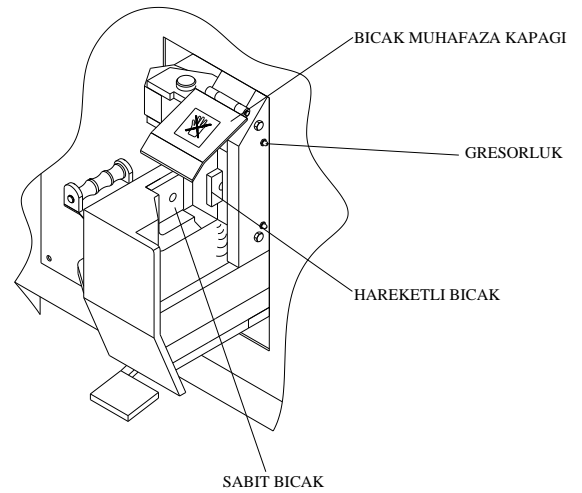
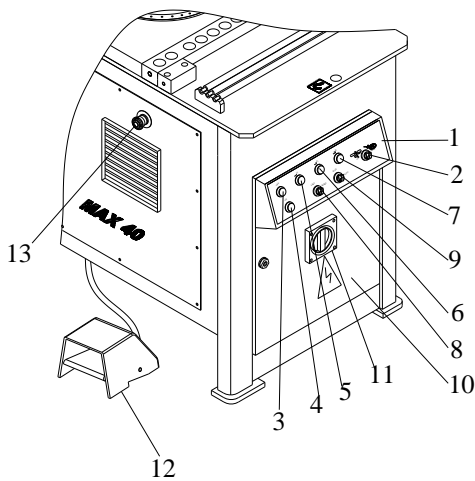
Note: Observe all instructions written on the warning labels

FIGURE : 15



8. CHECKS AND ADJUSTMENTS

FIGURE : 16



8.2 Replacement of Cutting Blades: Dismantle first the fixed blade whilst the machine is off. Start the machine, and hold down until the head of the bolt fixing the movable blade is appeared, and then press the stop button, and dismantle and replace the old movable blade. Press the start button again to enable the carrier return to its initial position and assemble the fixed blade.

NO	BUTTON	FUNCTION
1	POWER PANEL	It is such a component ensuring and controlling power to be supplied for the machine.
2	CUT - BEND	Ensures the machine to pass CUT or BEND Mode.
3	OFF	Ensures the machine to be stopped.
4	ON	Ensures the machine to be started.
5	P1	Ensures to make adjustment process for the bend-up reinforcement bending
6	P2	Ensures to make adjustment process for the set-square bending
7	P3	Ensures to make adjustment process for the hook bending
8	LEFT STOP RIGHT	Ensures the machine to rotate to the right or left direction.
9	MAN AUTO	Ensures the machine to be controlled automatically or manually.
10	ELECTRIC PANEL	It is such a panel that the parts ensures the machines electrical function are connected.
11	MAIN SWITCH	It is such a toggle switch ensuring the power input for the machine (0 means the machine is off, and 1 is on.)
12	FOOT PEDAL	The electrical item that ensures the machines bending table turns and the blade carrier move.
13	EMERGENCY STOP	Provides the machine to be stopped in emergency by disconnecting the power.

8.1. Adjustment of thermal current field, and motor circuit breaker

It is adjusted by its manufacturer as 9 A for 3 kW motor with 1.500 rpm. Do not change this adjustment. The motor circuit breaker is installed onto the machine to de-energize the motor in order the machine not to be damaged when it takes excessive current. Turn the switch to the

position (1) for re-starting the machine in case of circuit breaking. Under no circumstances the circuit breaker is dismantled.

NOTE : Note that the bending disc will continue to rotate as long as the foot pedal is pressed if the machine is in MAN position, and stop when it comes to the waiting position after bending process, and that the bending disc will perform the bending work by pressing the foot pedal only one time, and stop when it comes to the waiting position after bending process if the machine is in MAN position. Moreover, the bending disc can be stopped if the foot pedal is kept pressed on during returning of the bending disc after completion of bending work. Again if the machine is in automatic position, it will stop in the zero point by returning to the direction of rotation when the foot pedal is left free.

WARNING !!! : Use bending apparatus in sizes as at least 5 times big as of the diameter of the material to be bent.

Wait the machine to complete its bending cycle and stop, and press the buttons P1, P2 or P3 to change the bending adjustment. Otherwise you cannot change it by only pressing the said buttons.

8.2.Oil Level Check: The oil level in the tank may be decreased due to evaporation and possible leakages in the course of working time. In such cases, check first the oil level indicator on the oil dipstick attached to the oil filler cap. The oil dipstick has two indication lines: maximum and minimum. The oil level is to be between these two lines (**Figure 14**).

Note: The capacity of the oil tank is 32 liters. Use Hydraulic Oil Number 37. Always change the Hydraulic oil in time .

FIGURE 14

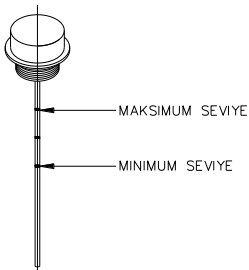


Figure : 19

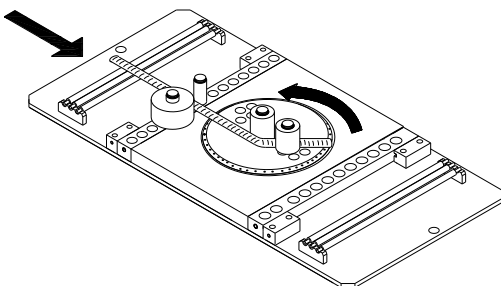


Figure : 20

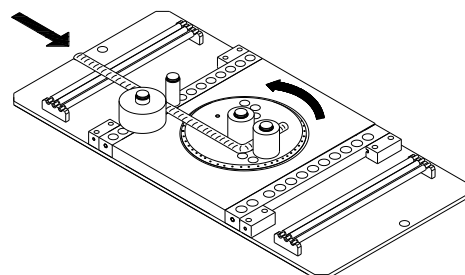
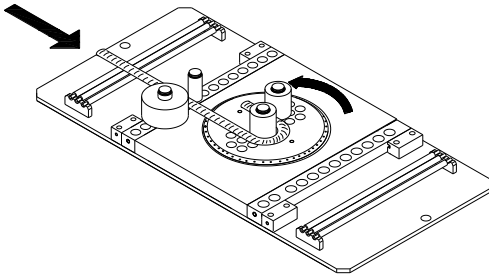


Figure: 21



NOTE : Bending angle expands when switch pin is zoomed in to the benchmark switch and it becomes acute when it is zoomed out.

8.3 Stirr-up Bending

NOTE: Use the bending sleeve, pin, stirr-up pin or straight pin which each of their dimensions are at least 5 times larger than the diameter of the material to be stirr-up bent.

FIGURE : 22

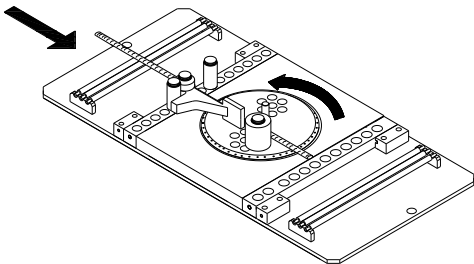


FIGURE : 23

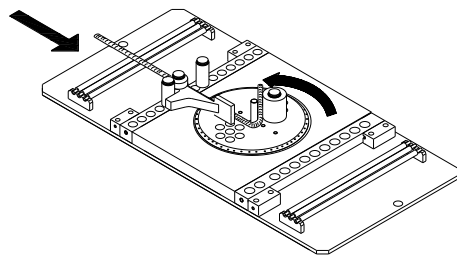


FIGURE : 24

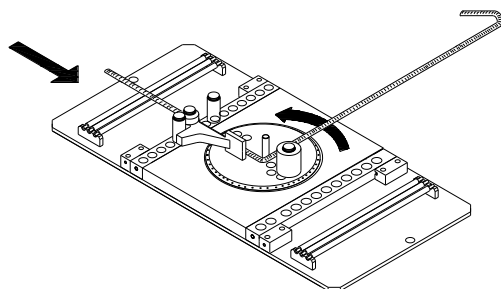


FIGURE :25

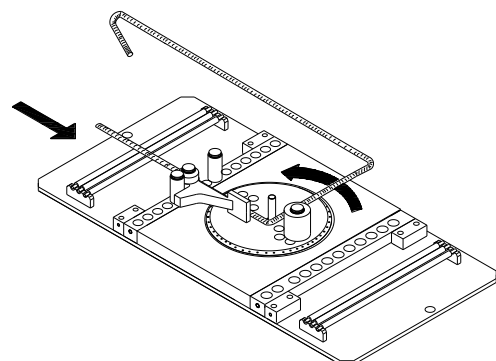


FIGURE : 26

FIGURE : 27

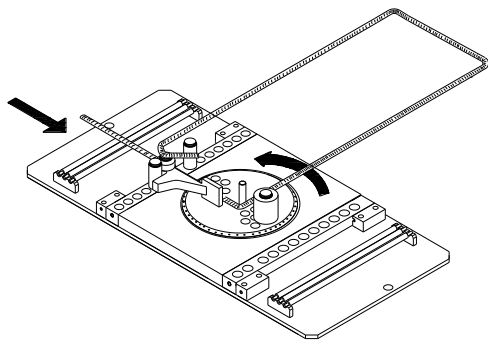


FIGURE : 28

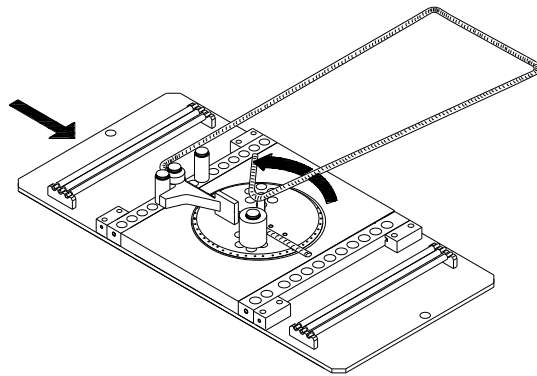
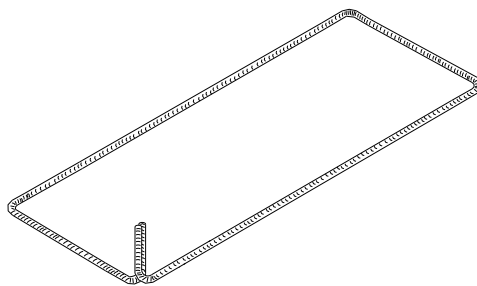
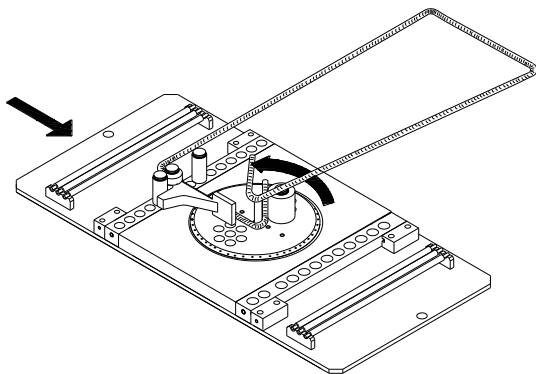


FIGURE : 29



Warning! In case of power failure, and the need to open the lid of electric panel, ensure that the main switch is first to be off, and that the electrical troubleshooting is to be made by a qualified electrician.

9. MAINTENANCE AND LUBRICATION

Note that the proper maintenance is very important in order to prolong the service life of the machine, and to ensure the bending works in safe. We recommend the users are to establish a reliable system to control and maintain the machine. Please refer to the following instructions when you need. Use the lubrication oil no.140 or 90 for the gearbox of the machine.

Daily Maintenance

- Clean thoroughly dust and burrs on the machine by brush.
- Use the protective cover against rain should the machine operates in the open air.
- Use brushes to clean the top of machine and clean the blades
- Check if an abnormal sound from the machine.
- Check the edges of blades. Replace if broken and/or distorted

Weekly Maintenance

- Drive, clean and grease the bending sheet metals.
- Clean and grease the adjustment level.
- Check the tightness bolts of blades

Monthly Maintenance

- Check the bending pins and sheet metals. Replace the bent and/or cracked parts.
- Check if any leakage from the gearbox.
- Check if any bent SWITCH pins or not.
- Check and tighten all bolts and nuts of the machine.
- Grease all components of gears, carriers and the foot pedal of the machine.
- Dismantle all covers and use a brush to clean metallic chips accumulated between movable parts.

Biannual Maintenance

- Check and tighten all bolts and nuts of the machine.
- Dismantle all covers, clean dirt and old grease between the movable parts, and re-grease.
- Check if any crashed, broken and/or cracked parts of movable components of gears, carriers and housing and other machinery parts.

Annual Maintenance

- Change the gearbox lubrication oil.
- Check and replace if any damaged or failure parts.
- Check if any formation of excessive clearance on the bronze bearings of the machine. Replace if any.
- Check if any worn out ball bearings. Replace if any.

10. TROUBLESHOOTING :

Refer to the Troubleshooting Chart below for the failures, errors and/or troubles, which may be take place during utilization of the machine.

Warning! Disconnect first the power by turning the main switch to the (0) position in case of a need to open the lid of power panel for troubleshooting. Do not allow the people other than a qualified electrician to make a check and/or a repair in the power panel.

NO	SYMPTOM	POSSIBLE CAUSE	SOLUTION
1.	Machinery fails to operate.	1. Power supply is interrupted and/or one of the phases is short. 2. Emergency stop knob is remained pressed. 3. Protection switch is cut-out	1. Check power supply and phases. 2. Check the knob. To open turn it to the arrow direction on the knob if it is remained pressed. 3. Check protection switch. Turn it to Position (1) if it is off.

		<p>4. The Left/Stop/Right switch is closed.</p> <p>5. The lid of power panel is opened or is not closed properly.</p>	<p>4. Check the switch. Turn it to right or left if it is on the stop position.</p> <p>5. Check the power panel lid.</p>
2.	Bending disk rotates continuously.	<p>1. SWITCH pin is bent or broken.</p> <p>2. The zero adjustment pin and the SWITCH pin are absent.</p> <p>3. Contactors of direction are defected</p>	<p>1. Check the pins and replace broken and/or bent one.</p> <p>2. Check the pins. Complete if they are deficient.</p> <p>3. Check contactors</p>
3.	Protection switch cuts-out continuously.	<p>1. Diode is burned.</p> <p>2. Motor is burned.</p> <p>3. Machine bends material with larger diameter than its capacity.</p> <p>4. Short phase in power supply.</p> <p>5. Transformer is burned.</p> <p>6. Short circuit or damage in cables.</p>	<p>1. Check the diode.</p> <p>2. Check the motor.</p> <p>3. Check the material in accordance with the information about the kind of material and dimensions on the name plate.</p> <p>4. Check the phase of power network.</p> <p>5. Check the transformer.</p> <p>6. Check the cable and connections</p>
4.	Machinery fails to operate despite the foot pedal is pressed.	<p>1. The plug is off.</p> <p>2. The pedal is defected.</p> <p>3. Contactors in electrical system are defected.</p>	<p>1. Check the plug.</p> <p>2. Check if the pedal is defected.</p> <p>3. Check the contactors in the electrical system.</p>
5.	Emergency stop does not operate.	<p>1. The emergency stop contactor is defected.</p> <p>2. Cable connections are off.</p>	<p>1. Replace the emergency stop.</p> <p>2. Check the cable connections</p>

6.	Abnormal sound comes out.	<ol style="list-style-type: none"> 1. Ball-bearings are worn out. 2. Impeller touches with the bonnet. 3. Gears are broken. 4. No oil left in the gearbox. 5. Short phase in power supply. 6. Machine operates overcapacity. 7. The brake in electro magnetic machines does not open or the broken lining of brake touches. 	<ol style="list-style-type: none"> 1. Check the ball-bearings 2. Check the impeller bonnets. 3. Check the gears 4. Check the gearbox oil. 5. Check the phases 6. Check the material in accordance with the dimensions on the name plate. 7. Check the brake and linings if they operate properly.
7.	Oil leakage from the machine	<ol style="list-style-type: none"> 1. The air ventilation plug of gearbox is not installed. 2. The packing O-ring of motor leaks 3. The fixing bolts of the gearbox are loosened. 	<ol style="list-style-type: none"> 1. Check if the plug is screwed. 2. Check the motor from the impeller side. Replace the packing O-ring if it leaks. 3. Check and tighten all fixing bolts.

SPARE PARTS LIST			
Item	Part Number	Quantity	Part Name
1	MAX 40-01	1	Housing - Bending
2	MAX 40-02	1	Table Plate
3	MAX 40-03	1	GMS 3040 Gearbox
4	MAX 40-04	1	Motor 3kW 1500 rpm
5	MAX 40-05	1	Adjustment Key
6	MAX 40-06	4	M8 Spring Washer DIN 1440
7	MAX 40-07	4	M8x35 Bolt DIN 933
8	MAX 40-08	6	M16 Spring Washer
9	MAX 40-09	6	M16x45 Bolt DIN 931
10	MAX 40-10	4	M12 Shim
11	MAX 40-11	4	M12X35 Bolt DIN 933
12	MAX 40-12	1	Ø 70 Bending Sleeve
13	MAX 40-13	1	Ø 90 Bending Sleeve
14	MAX 40-14	1	Ø 110 Bending Sleeve
15	MAX 40-15	1	Ø 130 Bending Sleeve
16	MAX 40-16	1	Ø 160 Bending Sleeve
17	MAX 40-17	6	Switch Pin
18	MAX 40-18	1	Electric Panel
19	MAX 40-19	1	OFF Button
20	MAX 40-20	1	CUT-BEND Button
21	MAX 40-21	1	OFF Button
22	MAX 40-22	1	P1 Button
23	MAX 40-23	1	P2 Button
24	MAX 40-24	1	P3 Butonu
25	MAX 40-25	1	Left-Right Button
26	MAX 40-26	2	Connection Thrust - Back
27	MAX 40-27	2	Connection Thrust - Head
28	MAX 40-28	16	M12 Spring Washer DIN 1440
29	MAX 40-29	16	M12X60 Bolt DIN 7984
30	MAX 40-30	2	Bracket Thrust
31	MAX 40-31	2	Adjustment Screw
32	MAX 40-32	2	Head Bracket Thrust
33	MAX 40-33	4	M10 Spring Washer DIN 1440
34	MAX 40-34	4	M10x30 Bolt DIN 933
35	MAX 40-35	4	Adjustment Nut
36	MAX 40-36	2	M8x10 Bolt DIN 417
37	MAX 40-37	1	16x10.5x44 Wedge DIN 6885
38	MAX 40-38	1	Bending Disc
39	MAX 40-39	4	M6x10 Bolt
40	MAX 40-40	1	Zero Adjustment Pin

SPARE PARTS LIST			
Item	Part Number	Quantity	Part Name
41	MAX 40-41	1	Protective Cover - Middle
42	MAX 40-42	1	Electric Panel
43	MAX 40-43	2	Panel Lock
44	MAX 40-44	1	Panel key
45	MAX 40-45	1	Protective Cover - Bottom
46	MAX 40-46	4	M6x15 Bolt
47	MAX 40-47	1	Foot Pedal - Bending
48	MAX 40-48	1	Emergency Stop
49	MAX 40-49	1	MAN-AUTO SWITCH
50	MAX 40-50	1	Sensor
51	MAX 40-51	1	Sensor Connection Shield
52	MAX 40-52	1	Protective Cover - Back
53	MAX 40-53	4	M6x40 Bolt
54	MAX 40-54	4	M6x40 Bolt
55	MAX 40-55	1	Maintenance Cover
56	MAX 40-56	1	Electric Panel Cover
57	MAX 40-57	1	Stirrup Pin
58	MAX 40-58	1	Straight Pin
59	MAX 40-59	5	Pin
60	MAX 40-60	1	Retainer
61	MAX 40-61	1	Maintenance Cover – Side
62	MAX 40-62	2	Ventilation Cover
63	MAX 40-63	2	Ventilation Cover
64	MAX 40-64	1	Oil Tank
65	MAX 40-65	2	Tank Filler Cap
66	MAX 40-66	1	1 K 250 Flange
67	MAX 40-67	1	DK 28 Coupling
68	MAX 40-68	1	8x7x50 Wedge
69	MAX 40-69	1	5.5 Kw 1500 d/d Compact Motor
70	MAX 40-70	4	M12 Spring Washer DIN 127
71	MAX 40-71	4	M12x40 Bolt
72	MAX 40-72	16	M6 Spring Washer
73	MAX 40-73	16	M6 Bolt
74	MAX 40-74	1	Foot Pedal - Cutting
75	MAX 40-75	2	Switch
76	MAX 40-76	2	M 4x30 Bolt
77	MAX 40-77	1	Connection Bracket
78	MAX 40-78	1	Cylinder
79	MAX 40-79	1	Cylinder Axle
80	MAX 40-80	1	150x125 Compact Seal
81	MAX 40-81	2	75x80x15 Polyacetal
82	MAX 40-82	1	75x85x12 Nutring

SPARE PARTS LIST			
Item	Part Number	Quantity	Part Name
83	MAX 40-83	1	140x6 Oring
84	MAX 40-84	1	Cylinder Cover
85	MAX 40-85	1	Housing - Cutting
86	MAX 40-86	2	M14 Spring Washer DIN 127
87	MAX 40-87	2	M14x120 Bolt
88	MAX 40-88	1	Blade Carrier
89	MAX 40-89	2	Blade
90	MAX 40-90	2	M16x20 Bolt
91	MAX 40-91	1	Blade Carrier Cover
92	MAX 40-92	6	M20 Spring Washer
93	MAX 40-93	6	M20x40 Bolt
94	MAX 40-94	4	3/8 Grease Nipple DIN 71472
95	MAX 40-95	1	M16x50 Bolt
96	MAX 40-96	1	Retainer – Cutting
97	MAX 40-97	1	Retainer Axle
98	MAX 40-98	1	Roller Connection Sheet
99	MAX 40-99	1	Roller
100	MAX 40-100	1	Axle - Roller
101	MAX 40-101	1	Ø 20 Split Ring
102	MAX 40-102	2	M10 Spring Washer DIN 127
103	MAX 40-103	2	M10x25 Bolt
104	MAX 40-104	4	M12 Spring Washer DIN 127
105	MAX 40-105	4	M12x40 Bolt DIN 933
106	MAX 40-106	1	Blade Protective Cover
107	MAX 40-107	1	Blade Casing Axle
108	MAX 40108	2	Ø8 Split Ring
109	MAX 40-109	1	1" OIL FILLER CAP
110	MAX 40-110	4	Wheel
111	MAX 40-111	4	1" Washer
112	MAX 40-112	4	Ø4x30 Pin DIN 94
113	MAX 40-113	1	1/2 Stopper
114	MAX 40-114	2	Spring
115	MAX 40-115	1	Control Arm
116	MAX 40-116	2	Screw
117	MAX 40-117	1	Spring Tensile Bracket
118	MAX 40-118	2	Ø28 Split Ring

