



EKA MAKİNA ve GIDA SAN. TİC. LTD. ŞTİ.

**DOUGH, ERİSTE, MANTI CUTTING AND YUFKA MAKING MACHINE**  
**(DORUK-T/1000)**

**OPERATION AND MAINTENANCE MANUAL.**

**MACHINE SPECIFICATIONS.**

**USE INSTRUCTIONS.**

**BREAKDOWN INSTRUCTION.**

**MAINTENANCE INSTRUCTIONS.**





EKA MAKİNA ve GIDA SAN. TİC. LTD. ŞTİ.

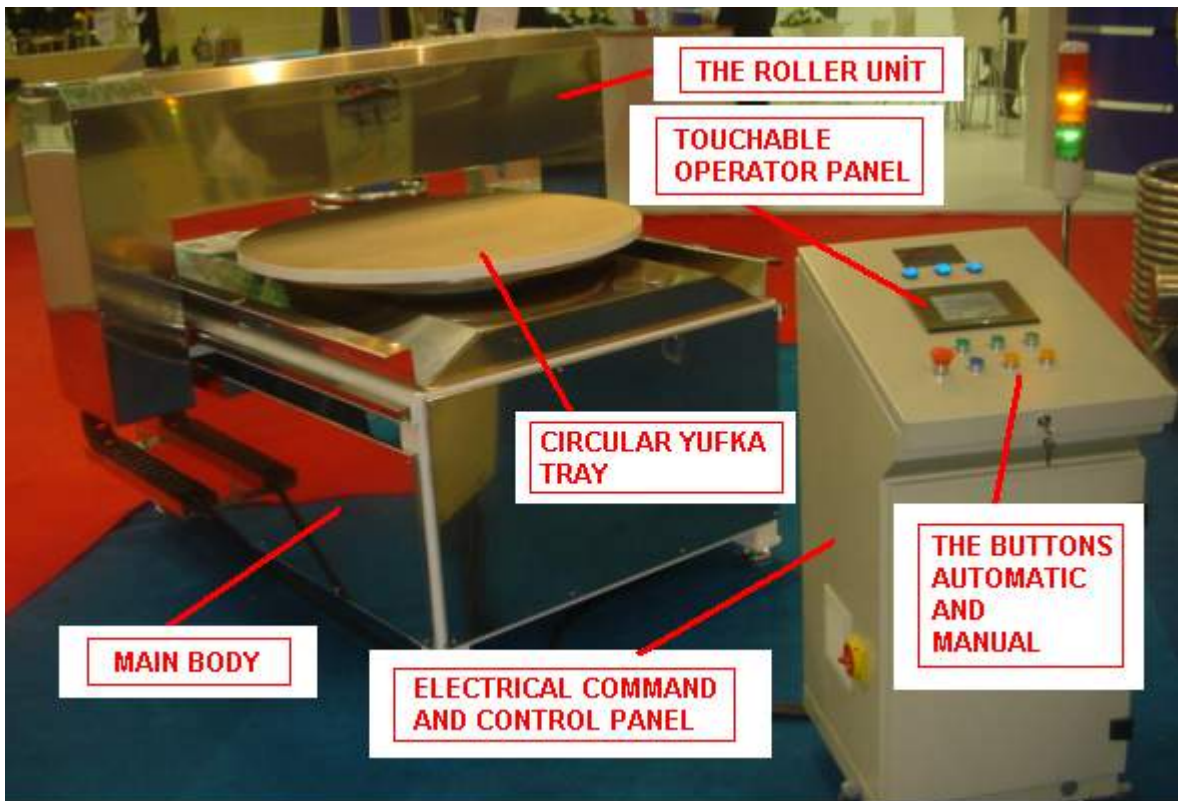
**DOUGH, ERİSTE, MANTI CUTTING AND YUFKA MAKING MACHINE (DORUK-T/2000)  
OPERATION AND MAINTENANCE MANUAL.  
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a) machine identity plate.

İMALATÇI / MANUFACTURER : EKA MAKİNA VE GIDA SAN. TİC. LTD. ŞTİ		
YUFKA AÇMA MAKİNASI / YUFKA MAKING MACHINE		
MODEL ADI / MODEL	DORUK-T/2000	
ÜRETİM TARİHİ / PRODUCT DATE		
SERİ NO / SERIAL NUMBER	DRK / /	
TOPLAM GÜÇ / TOTAL POWER	1,55 kW	
ENERJİ GİRİŞİ / POWER SUPPLY	TRİFAZE 50 Hz / THREEPHASE 50 Hz	MADE IN TURKEY
adres / address:Yeniçamlıca Mah. Yedpa Tic. Merkezi Cad:H-2 Pasaj 2 , No:59 Y.dudullu/İSTANBUL +90 216 660 15 94 www.ekamakina.com ekamakina@ekamakina.com		

b) machine sections.



c) **(attention , very important !!!!)** importance of electrical connecting to ground in first setting.

This machine is include very sensitive electronic equipments so to operate machine need real electrical connecting to ground. Otherwise the machine not work and sensitive electronic equipments may be damage , therefore responsibility of defect pertain to customer. When the making grounding you have to excavate the ground (60 cm deep) and bury 50cmx50cm sized copper plate, and connections must be connect with connectors.

2- USE INSTRUCTIONS.

a) machine settings.

There is two kind settings of the machine.

a1) Automatic work settings.

a11) Yufka making automatic work settings.

Automatic settings are format of the machine work. You can attain to touch automatic settings in touch screen panel's main page being button "settins". When you enter to settings page you see four different settings button. You can adjust settings by buttons as to your dough and other work conditions.

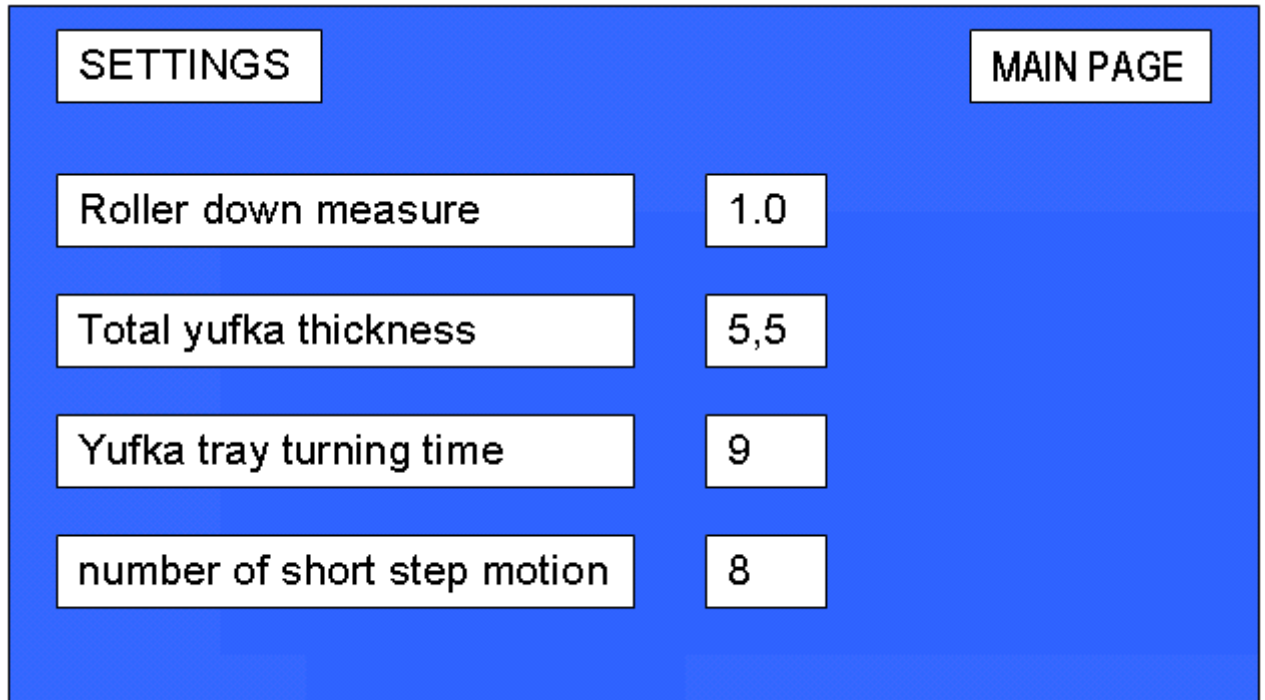


Figure 2-a1-1

THESE SETTINGS:

- 1-Roller down measure (how it's down for every step of the roller down.)
- 2-Total yufka thickness (when all dough crush and slim how much mm thickness it).
- 3-Circular Yufka tray turning time.
- 4-number of short step motion (when start automatic all dough's diameter is small so the rollers motion to not be necessary as finished yufka's diameter. You can adjust how many short motions of rollers in this setting.)

TO CHANGE FORMAT OF SETTINGS.

Please touch the box you want to change by the side of parameter explanation. When you touch the box a small window appear on screen like a calculator. Touch to number as to you want to change value and after touch the "ENT" box In this window, You see close of the window and change the parameter end of operation. If you give up to change parameter in the window touche the "ESC" box , so when you close the window you see no change parameter. If you want to cancel your parameter after change (for again change) touch the "CLR" box , sol last value be unchange. When you finish settings parameters touch "MAIN PAGE" box and turn MAIN PAGE.

You can change all parameter while the machine work. All settings save on PLC Controller, even when you close up the macine or to go out of electric power by you change. (shown figure 2-a1-1)

a12) Dough and eriste, manti cutting automatic work settings.

Dough and eriste, manti cutting automatic work settings are do settings of cutting operation value. You can attain to touch cutting settings in touch screen panel's main page being button "cutting". When you enter to cutting page you see different alternative button. first button is "dough cutting" and second button is "eriste, manti cutting". push "dough cutting" button for to cut dough. When you touch this option you see on touch screen as figure a12-1.



Figure a12-1

In this screen view in left top corner "MAIN PAGE" button take to main page of this page. there is two settings in this page. First setting is dough thickness and second is marble tray turning time. Touch box near of "DOUGH THICKNESS" written box and change thickness parameter. There is one of them symbol "=" (equal) or "/" (not equal) symbol. These symbols show measure of between the roller and marble tray following box to your parameter. Again touch box near of "MERBLE TRAY TURNING TIME" written box and change parameter and change turning time of merble tray for 90° turn. When you finish parameter change push button near of "DOUGH CUTTING START" written and the roller unit go back and front for crush dough to your setting thickness parameter. The roller unit stop to front side of the machine end of crush operation. You low and fix cutting unit down side and touch "DOUGH CUTTING START" button again. The roller unit go back the cutters slices dough and merble tray turn 90° and the roller unit go front side of the machine. The cutters been cutted dough as cube. There are information word on bottom side of screen. "EMERGENCY BUTTON ON" is display the button of emergency be pressed (no work all fonctions). "ERISTE, MANTI CUTTING ACTIVE" is display unfinished eriste or manti cutting operation (than you can't do dough cutting operation). "CUTTER UNIT DOWN SIDE" or "CUTTER UNIT UP SIDE" is display where is the cutter unit. "YOU CAN DO CUTTING OPERATION" is display ready for cutting of the machine. When finish cutting operation touch "MAIN PAGE" box on screen for to go main page. If the cutter unit position is down side you see this position on screen and no work all fonction, you must lift the cutter unit up side for run the machine.

#### TO CHANGE FORMAT OF SETTINGS.

Please look to preceding chapter a11for to change format of settings.

If you touch "ERISTE, MANTI CUTTING" alternative box when you cutting page on screen you can go to eriste, manti cutting page. You see as figure a12-2 view.





Figure a12-2

there is not parameter for change eriste, manti cutting operation. You put eriste or manti block to marble tray and touch "TOUCH BUTTON FOR CUTTING ERISTE OR MANTI" written button. When you touch this button control system give permission you some manual buttons on electrical panel. You press "DOWN" button and get the roller pressing to eriste or manti block and after you bring down the cutter unit to down side. press "BACK" button than the roller unit go back with the cuttin unit and it been slice the materials. You can do cuttin operation only one side on eriste or manti cutting operation. There are information word on bottom side of screen. "EMERGENCY BUTTON ON" is display the button of emergency be pressed (no work all fonctions). "ERISTE, MANTI CUTTING ACTIVE" is display unfinished eriste or manti cutting operation (than you can't do dough cutting or yufka making operation). "CUTTER UNIT DOWN SIDE" or "CUTTER UNIT UP SIDE" is display where is the cutter unit. "YOU CAN DO MANTI OR ERİŞTE CUTTING OPERATION" is display ready for cutting of the machine. When finish cutting operation touch TOUCH BUTTON FOR CUTTING ERISTE OR MANTI" box on screen for to finished operation (if you stop this operation you can't start automatic start yufka making operation). Touch "MAIN PAGE" box on screen for to go main page. If the cutter unit position is down side you see this position on screen and no work all fonction, you must lift the cutter unit up side for run the machine.

#### a2) Manual work settings.

You can adjust pressing buttons from on top of electric panel box , height position of roller , position of roller unit and yufka table turning before yufka making operation.



automatic and manual command buttons and lightened signal lamp.

When you press “turn” button yufka table is turn

When you press “front” button the roller unit go front until to sense front limit sensor.

When you press “back” button the roller unit go back until to sense back limit sensor.

When you press “up” button the roller go up until to sense up limit sensor.

When you press “down” button roller go down until to sense down limit sensor.

All these buttons active while press , when you stop to press the motions stops.

Lightened signal lamp to show working position far away. Red light show breakdown about working of the machine. If Red light with green light shine shows emergency button pressed. Only green light shows the machine ready for work. If green light with yellow light shine shows the machine working on automatic.

b) Emergency conditions:

If to get defective situations while machine working press to emergency button (shown figure 2-b-1) When you press emergency button the machine stop to work and the button locks automaticly. When to put in order turn emergency button direction clockwise and unlock , otherwise the machine never works.

Emergency button



figure 2-b-1

c) Every first Start of the machine:

Turn yellow-red starter direction clockwise on left or right side of electric box at first. Touch screen will be active a few second and reference box with a caution appear on Screen. Touch the reference box. If you do not touch to reference box the machine do not work. When you touch the reference box only once the rollers go down and after go up so the machine have a reference. After this operation you see “main page” on screen. You can do settings and you can start yufka manufacturing process.

d) Yufka making:

First you do preliminary of dough on preparatory machine. Put into place all dough (20 or 25 pieces) one on the top of the other to do flour every ones between. And after you put bunch of dough to centre of marble yufka table on the machine. You do settings the rollers up or down on electric box’s buttons. Last as press automatic button on electric box. The machine run on automatic working and it do process by your parameters. When end of process the roller go up and the roller unit go park position and it wait new start command.

e) Dough cutting:

You put dough to marble tray and spread by your hand. You can attain to touch cutting settings in touch screen panel’s main page being button “cutting”. When you enter to cutting page you see different alternative button. first button is “dough cutting” and second button is “eriste, manti cutting”. touch “dough cutting” button for to cut dough. When you touch this option you see on touch screen as figure a12-1. Set parameters dough thickness and marble tray turning time. When you finish parameter change touch button near of “DOUGH CUTTING START” written and the roller unit go back and front for crush dough to your setting thickness parameter. When finished crushing operation

the roller unit go front side of the machine and wait for your command. Do low the cutter unit settings mechanism (shown Figure 2-e-1). you low the cutter unit down arm (shown Figure 2-e-2 and Figure 2-e-3). The cutters (shown Figure 2-e-3) must be up 1-2 mm of marble tray for not damage marble. Slacken maces and low limiting profiles (shown Figure 2-e-2 and figure 2-e-3) and screw maces for fixing of limiting profiles. Touch "DOUGH CUTTING START" box. The roller unit go back side and slice dough and marble tray turn 90°. The roller unit go front side and cutters cut the dough cube form. When finished cutting operation lift the cutter unit up side.

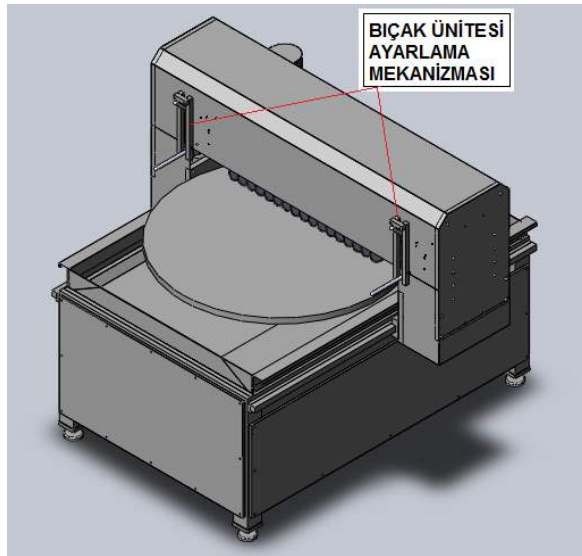


Figure 2-e-1

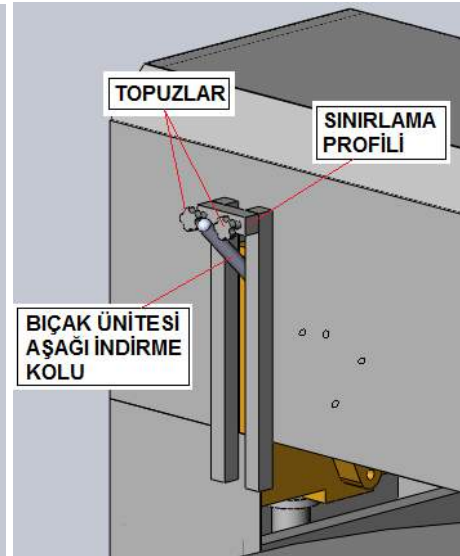


Figure 2-e-2

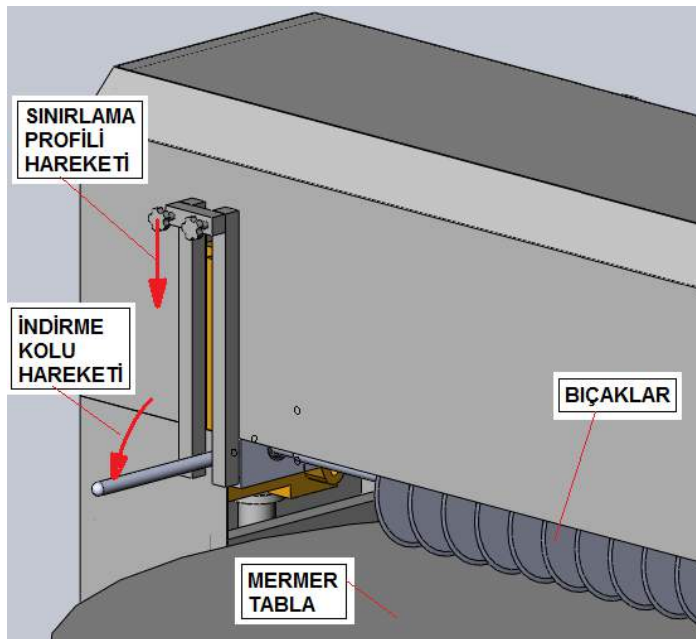


Figure 2-e-3

f) Eriste or manti cutting:

Put cooked eriste or manti dough to marble tray. You can attain to touch cutting settings in touch screen panel's main page being button "cutting". When you enter to cutting page you see different alternative button. first button is "dough cutting" and second button is "eriste, manti cutting". touch "dough cutting" button for to cut dough. When you touch this option you see on touch screen as figure a12-2. Touch "TOUCH BUTTON FOR CUTTING ERISTE OR MANTI" written button. When you touch this button control system give permission you some manual buttons on electrical panel. You press "DOWN" button



and get the roller pressing to eriste or manti block and after do lowe the cutter unit settings mechanism (shown Figure 2-e-1). you lowe the cutter unit down arm (shown Figure 2-e-2 and Figure 2-e-3). The cutters (shown Figure 2-e-3) must be up 1-2 mm of marble tray for not damage marble. Slacken maces and lowe limiting profiles (shown Figure 2-e-2 and figure 2-e-3) and screw maces for fixing of limiting profiles. Press back button on electric panel. The roller unit go back side and slice material. You can do cuttin operation only one side on eriste or manti cutting operation. Take up slided materail and lift the cutting unit up side. Touch "MAIN PAGE" box for go to main page on screen.

### 3- BREAKDOWN INSTRUCTION:

When breakdown do not panic and you apply themes of this chapter. Sometimes hitches are so many ordinary and you can remove breakdown to do apply simple operations. If breakdown necessitate you press urgent to emergency stop button

a) When you press any button , if the machine do not work.

- You check emergency stop button. If emergency stop button on lock , lock up the button
- If you open machine firstly (every first working) , touch on the screen reference box.
- You check screen , if it is not active turn yellow-red starter direction clockwise on left or right side of electric box.
- You check three signal lamps on electric box. For normal electric activate All lamps must be flash. If whatever one or several not flash or not enough lustre there is a problem electric energy. Maybe electric system on single phase or voltage level be down. So turn yellow-red starter direction unclockwise on left or right side of electric box and consult an electrician. Electric voltage level and phase condition must be check. If there is an imbalance on electric system you must do required precautions. If you do not required precautions you never work the machine.
- You check main page on screen , if you see a breakdown message call EKA machinery.
- You check electrical safety elements inside electric box of the machine. If electrical safety elements are down "0" position you make it up "I" position. If same breakdown be repeated again consult an electrician. If there is an imbalance on electric system you must do required precautions. If you do not required precautions you never work the machine.
- You check electrical safety elements on your wokshop electric box. If electrical safety elements are down "0" position you make it up "I" position. If same breakdown be repeated again consult an electrician. If there is an imbalance on electric system you must do required precautions. If you do not required precautions you never work the machine.
- The cutting unit must be up side on yufka making operation. If the cutter unit position is down side you see this position on screen and no work all fonction, you must lift the cutter unit up side for run the machine.
- On cutting operation the cutting unit when down side it must up side or when up side it must be down side no work all fonction. check cutting unit position on screen.
- If you check all these and if you can not find cause of breakdown , call EKA machinery.

b) Mechanic breakdowns:

- If you hear abnormal voices while machine working , stop the machine and call EKA machinery.

c) Functional breakdowns:

c1) If there is go bad yufka making process (to break into pieces , to get wrinkled , to adhere etc.).

- you check your parameter automatic working settings on screen. Another someone change the parameter by mistake.

-When the roller unit run front side or back side the rollers must be turn left or right directions , check it. If each two roller do not turn firstly check electrical safety elements inside electric box. If electrical safety elements are down "0" position you make it up "1" position. If same breakdown be repeated again consult an electrician. If there is an imbalance on electric system you must do required precautions. If you do not required precautions you never work the machine. If electrical safety elements are "1" position than timing belt may break off or the motor may alight. You can call EKA makeine company for breakdown service or apply directions of this chapter for to change timing belt or other yourself. Firstly shut down electric panel. Disassemble the roller unit top cover and the rollers protection sheet shown figure 3-c1-8. check timing belt shown figure 3-c1-9. If the timing belt not break off than smell motor. If there is a burn odour than the motor is alight. If you cannot be sure burn odour than you press manual front or back button on electric box and check motor's turn ( you can see motor's turning from fan blower back side of motor or from pulley front side of motor) If motor is be alight than disassemble connection bolts of the motor (shown figure 3-c1-9). Send it to doing operation of motor cooper wire or change it new motor have same characteristic (you can use available reductor).

When the roller unit run , If the rollers turn sometimes and too do not turn sometimes than call EKA makeine company.

If you see the timing belt is break off at first control than disassemble two nut shown figure 3-c1-2 (position of the nuts on the machine is the roller unit's left inner side and the rollers up side). When you do this operation , you set free the timing belt of the roller motion connection from motor , shown 3-c1-2 (position of the belt on the machine is the roller unit's left outer side). Take up break off timing belt. This timing belt serial number is "240 L" (it's register on the timing belt and two spare part given by deliver of the mahine). Put new belt to between pulleys and tensed bearing group (shown figure 3-c1-9). Assemble the nuts (shown figure 3-c1-10) and strain at the belt and after screw the nuts (the timing belt mus not many tens or many slack). You must screw each two nut surely otherwise the tensed bearing group slack in the course of time and it damage to the belt. grasp and turn front roller by your hand during one minute. You must turn it unforced and the other roller must turn together. Check connection between the belt and pulleys. When you turn the roller If the belt get out pulleys than the operation is be faulty. So you must dissamble the nuts and you must do operation again. When you turn the roller there is not a problem , start up electric power. Press front or back manual buttons and check work of belt and pulleys. If everything is normal than assemble the rollers protection sheet and the rollers unit top cover (shown figure 3-c1-1). You can start it automatic. If you see abnormal run you must check all you do.(Maybe there is a bolt screwing forgeted etc).

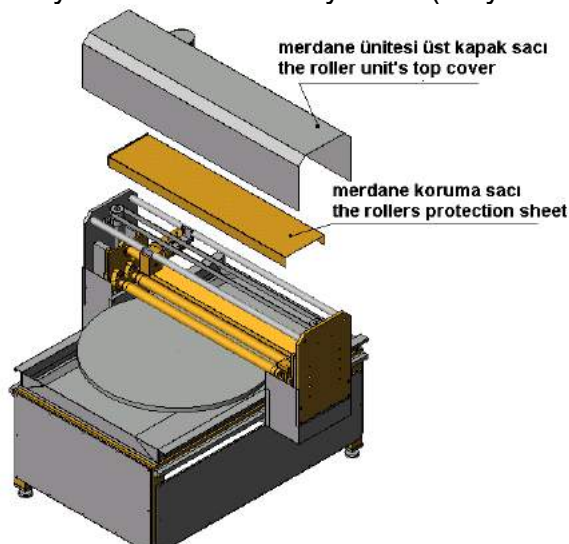


figure 3-c1-8

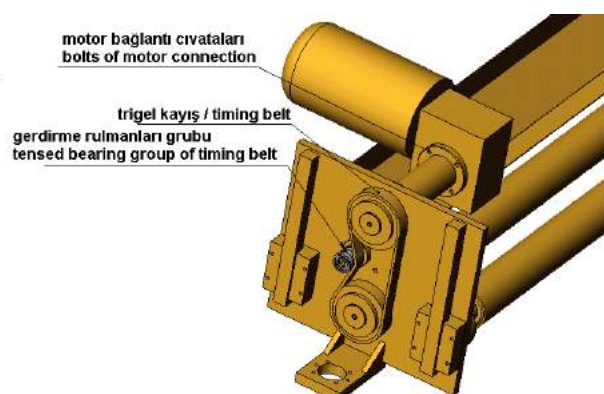


figure 3-c1-9

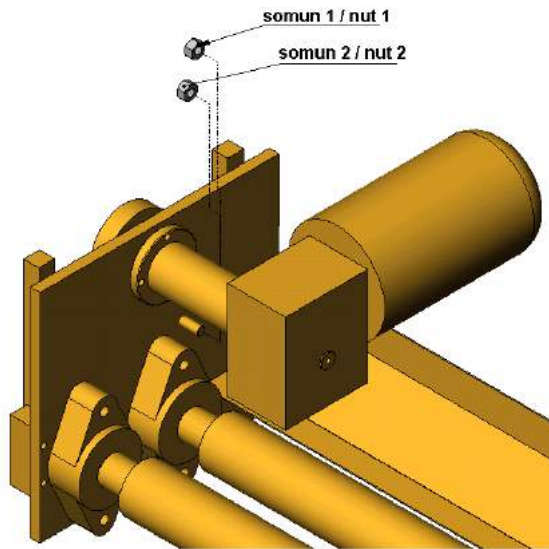


figure 3-c1-10

- When the rooler unit go front and back , the rollers must turn left and right directions. You check turning of the roller. If there is a problem turning call EKA machinery.
- You check the rollers for is there a crushing.
- You check hardness of dough.
- You check mixing flour , water salt and mixing time
- You check flour making dough and flour of after preparatory machine to do flour every ones between. The flours must be every time you use flours.
- You check moisture in your workshop.
- You check timing of dough go time preparatory machine between to the yufka machine.
- You check waiting time of dough after cuting.

c2) If there is a to go bad order of the machine working at once:

If The machine do abnormal activity at once for example you press automatic start but the rollers a few go down and it stop the process or like absurd activity , definitely there is a problem the electrical connecting to ground. Urgently stop the machine and consult an electrician. If there is an imbalance on the electrical connecting to ground you must do required precautions. If you do not required precautions you never work the machine. You must check the electrical connecting to ground.

c3) If yufka do not be circular (for example if it be oval)

- Check yufka tray turning time at touch screen panel's setting menu. You may change it by mistake.
- Check flours using for dough and sprinkle. If you do change flour you must regulate working setting (yufka tray turning time at touch screen panel) for new dough. Increase or decrease little values and adapt turning time. when you run the machine If yufka be abnormal shrink every crushing , you must change flours preceding flours.
- Press yufka tray turning manual button minimum one minute and check turning it. If it turn continuous than there is not problem but If it is not continuous than there is a problem on turning operation's element (it's vukolon turner shown figure 3-c3-1). You can call EKA makine company for breakdown service or apply directions of this chapter for to change vukolon turner yourself. Firstly press manual back button and get the roller unit go back (parking position). shut down electric panel. Two personel go left and right side of the machine , facing one another. They lifts circular yufka tray (the circular yufka tray is heavy so attention lifting and carrying operation). Takes it somewhere not breaking. Disassemble bolt of vukolon turner (shown figure 3-c3-1). Take thick washer. Pull up the vukolon turner inside of house. Fit well new vukolon

turner (two spare part given by deliver of the mahine). And after put the thick washer and assemble the bolt and screw it. Press manual turn button on electric panel and check turning. If everything is normal than put circular yufka tray on machine. Attention putting of table to the machine. There is two pin on MDF table and there is two hole up side of yufka tray. Firstly you must put one hole to one pin and after you must turn the yufka tray slowly direction axis of puted pin. When second pin put to hole operation is finished.

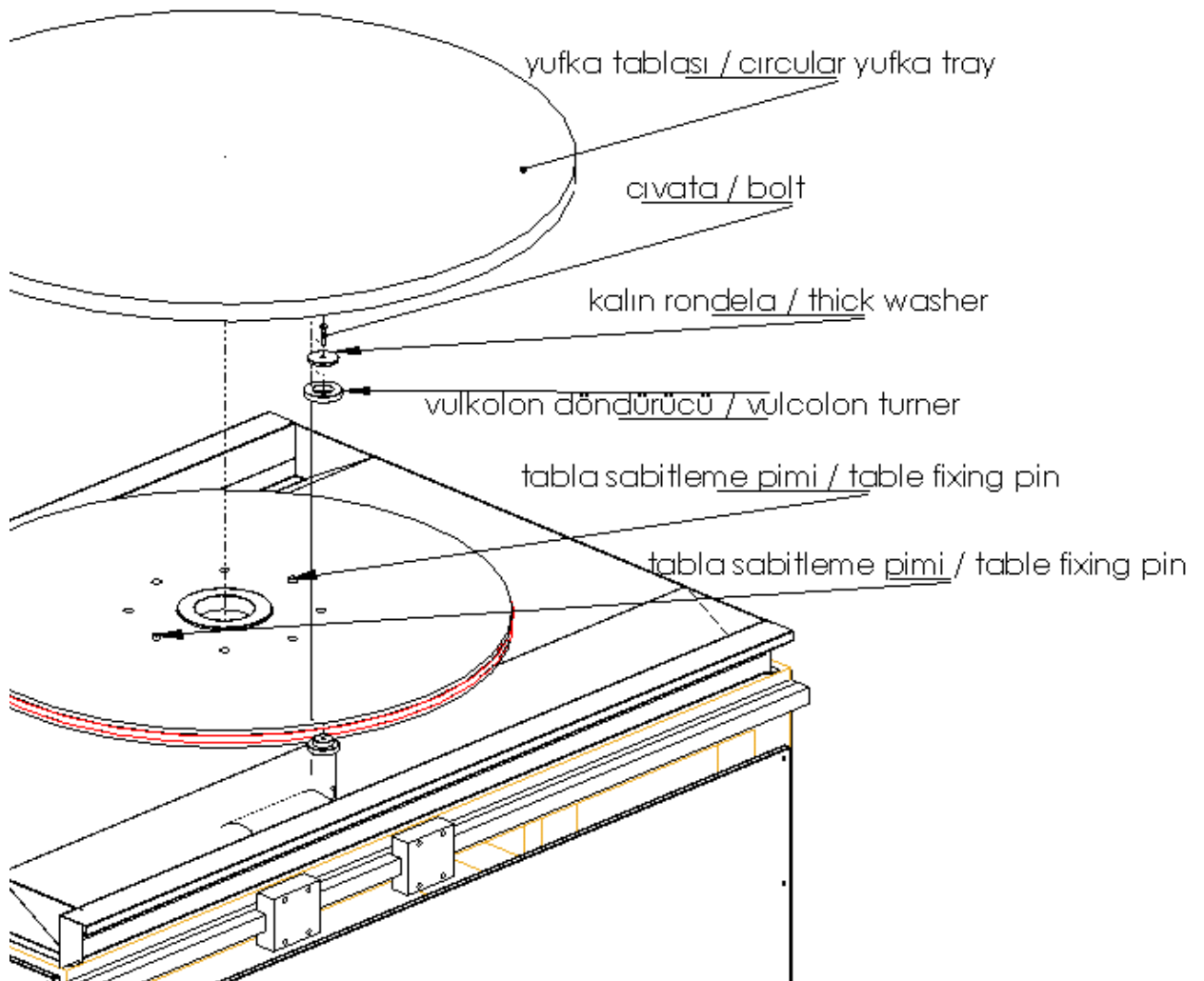


figure 3-c3-1

c4) If the rollers do not go up or down.

-When you press manual up/down button or automatic start button If the rollers do not go up or down firstly check electrical safety elements inside electric box. If electrical safety elements are down "0" position you make it up "1" position. If same breakdown be repeated again consult an electrician. If there is an imbalance on electric system you must do required precautions. If you do not required precautions you never work the machine. If electrical safety elements are "1" position than step motor's timing belt may break off or step motor may alight. You can call EKA makeine company for breakdown service or apply directions of this chapter for to change timing belt or other yourself. Firstly shut down electric panel. Disassemble left bottom cover shown figure 3-c4-1. you can see the step motor. The timing belt must be affixed as figure 3-c4-2. If the belt break off than you unscrew bolts connection of step motor but do not disassemble they. Take up break off belt and put there new

belt. This timing belt serial number is "173 L" (it's register on the timing belt and two spare part given by deliver of the mahine). Put new belt to between pulleys and stretch the belt (you can lean to motor body using a wood piece for to pull motor. the timing belt mus not many tens or many slack). start up electric power. Press up or down manual buttons and check work of belt and pulleys. If everything is normal than assemble left bottom cover (shown figure 3-c4-1). You can start it automatic. If you see abnormal run you must check all you do. (Maybe there is a bolt screwing forgeted etc).

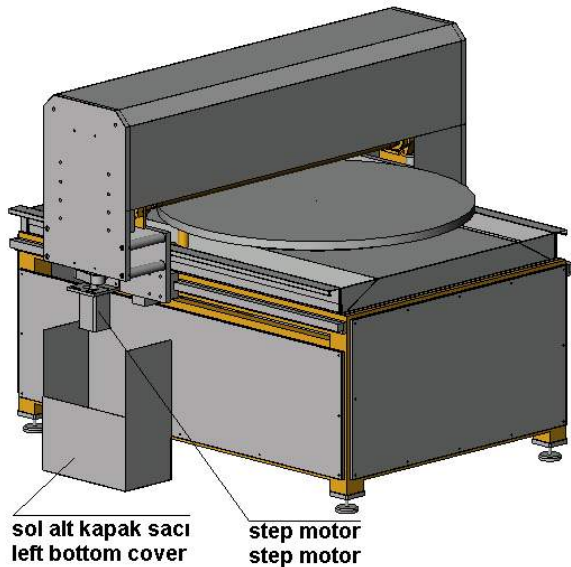


figure 3-c4-1

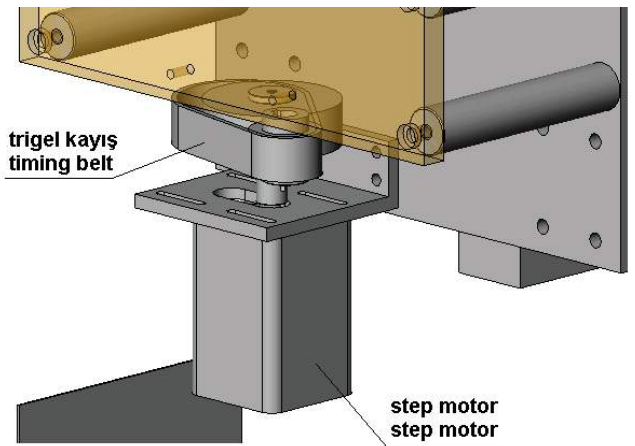


figure 3-c4-2

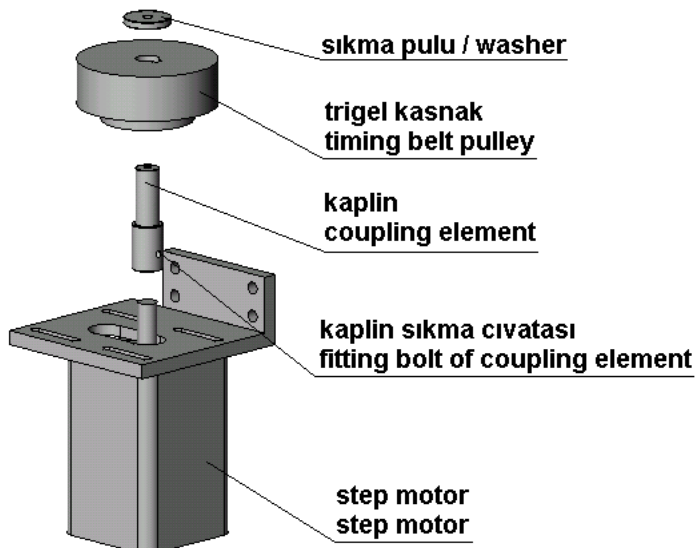


figure 3-c4-3

If the timing belt stay stretched and undamaged (shown figure 3-c4-2) than consult an electrician. Get check electrical cable connection. If step motor is out of order than change it new step motor have same characteristic. You can disassemble as shown figure 3-c4-3. surely record cable numbers of the step motor , so you must connect same cable again on chage new step motor. Besides you must solder all cable.



-If the rollers sometimes go up or down and sometimes they do not go up or down. There is a problem at connection of pulley of step motor. Disassemble left bottom cover shown figure 3-c4-4. you can see the step motor. The timing belt must be affixed as figure 3-c4-5. Check tense of timing belt. If it is slack than you unscrew bolts connection of step motor but do not disassemble they. stretch the belt (you can lean to motor body using a wood piece for to pull motor. the timing belt must not many tens or many slack).

If the timing belt is tensed than Press up or down manual buttons and check work of belt and pulleys. if you see abnormal vibration When step motor run than coupling element's bolts slacked (shown figure 3-c4-6). you unscrew bolts connection of step motor but do not disassemble they. Slacken the timing belt. There is two bolt on coupling element for fixation. Unscrew the bolts and take up coupling with pulley. You see a surface flatten on the step motor's shaft. the one bolt and flatten surface Must be one point. Assemble coupling element to shaft and screw the bolts. Put The timing belt to between pulleys and stretch the belt (you can lean to motor body using a wood piece for to pull motor. the timing belt mus not many tens or many slack). start up electric power. Press up or down manual buttons and check work of belt and pulleys. If everything is normal than assemble left bottom cover (shown figure 3-c4-4). You can start it automatic. If you see abnormal run you must check all you do. (Maybe there is a bolt screwing forgeted etc).

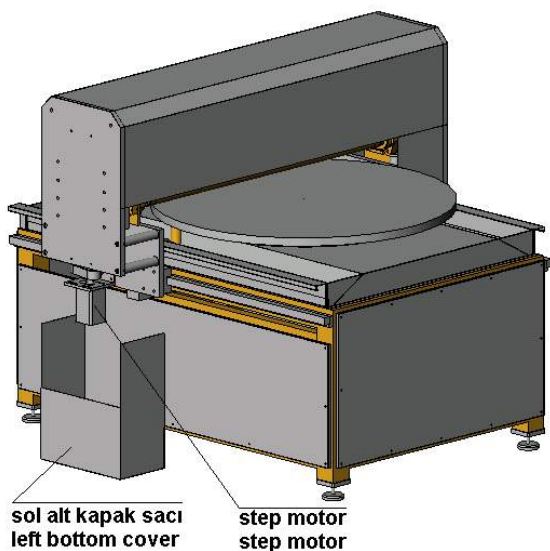


figure 3-c4-4

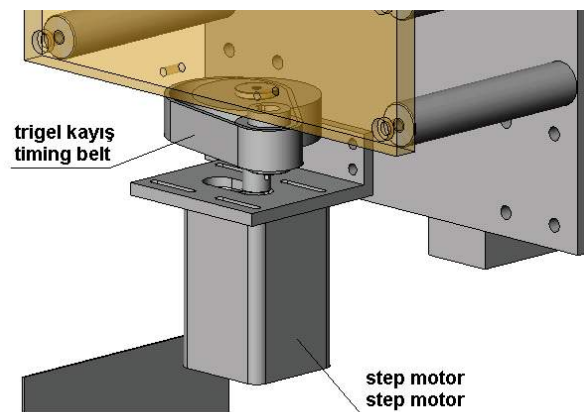


figure 3-c4-5

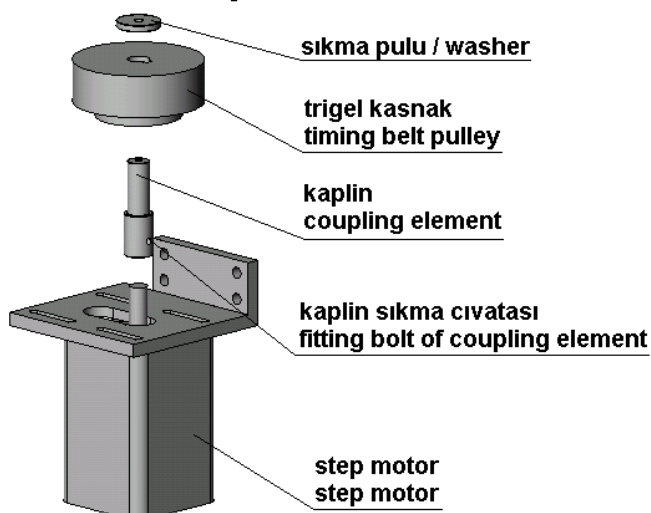


figure 3-c4-6

-When the machine runs in automatic mode if the period of process is to be longer than check the roller down motion on every roller unit's go front and back. The unit every go front and back you must hear a voice from the step motor. If you hear it sometimes and too you hear not it then call EKA machine company.

c5) If the roller unit does not run or it runs rocking.

-If the roller unit does not run firstly check electrical safety elements inside electric box. If electrical safety elements are down "0" position you make it up "I" position. If same breakdown be repeated again consult an electrician. If there is an imbalance on electric system you must do required precautions. If you do not required precautions you never work the machine. If electrical safety elements are "I" position than motion chain of the roller unit may be slack motor may be a light. You can call EKA machine company for breakdown service or apply directions of this chapter for to do regulate of tension chain or other yourself. Firstly shut down electric panel. Disassemble right and back cover sheet on main body of the machine (shown figure 3-c5-1). You can see motor, front/back chains, chain and tensioning elements (shown figure 3-c5-2). Check chain if the chain not break off than smell motor. If there is a burn odour than the motor is a light. If you cannot be sure burn odour than you press manual front or back button on electric box and check motor's turn (you can see motor's turning from fan blower back side of motor or from chain front side of motor) If motor is be a light than slacken connection bolts of the motor (do not disassemble them). Put a wooden beam to under of reductor and lift it. Disassemble the motor's chain during lift. And after disassemble motor's chain gear. Take up motor from the machine (attention the motor and reductor are very heavy. During disassemble and take up motor two personnel must do the operation. Send it to doing operation of motor cooper wire or change it new motor have same characteristic (you can use available reductor). When you assemble new or repaired motor, check the motor run and after start it automatic.

If chain breakdown than you must get new chain. Firstly shut down electric panel and slacken bolts of front/back chain's bearing bolts (do not disassemble them). Turn chain tension bolt to slack direction (shown figure 3-c5-2). Disassemble chain and the roller unit connection part (it is under of the roller unit). Take up break down chain. The chain standart dimension is  $\frac{1}{2}$ ". Do provision chain same characteristic and same length. Assemble new chain to between front and back chain gears. Pull Front chain to front of the machine and screw bolt front chain's bearing. And after Turn chain tension bolt to tension direction. When tensed the chain screw bolt of back chain gear's bearing (the chain must not many tens or many slack). Befor tensioning operation check two chain gear, they must be parallel to themselves and to main body profiles.

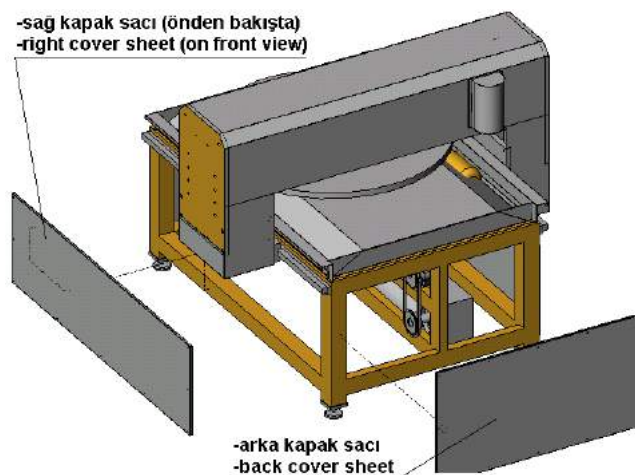


Figure 3-c5-1

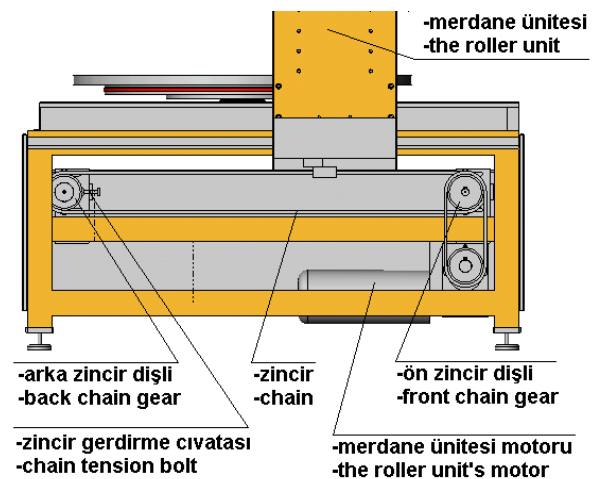


Figure 3-c5-2

- If the roller unit motion is be shake.

When the roller unit run to front and back sides , the motion is be shake than the unit's motion chain is be slack. Firstly shut down electric panel. Disassemble right and back cover sheet on main body of the machine (shown figure 3-c5-1). You can see motor , front/back chains , chain and tensioning elements (shown figure 3-c5-2). slacken bolts of front/back chain's bearing bolts (do not disassemble them). Pull Front chain to front of the machine and screw bolt front chain's bearing. And after Turn chain tension bolt to tension direction. When tensed the chain screw bolt of back chain gear's bearing (the chain must not many tens or many slack). Befor tensioning operation check two cahin gear , they must be parallel to themself and to main body profiles. check the motor run and after start it automatic.

- If the roller unit when go front or back limit hit to the machine main body than the unit's motion chain is be slack. Firstly shut down electric panel. Disassemble right and back cover sheet on main body of the machine (shown figure 3-c5-1). You can see motor , front/back chains , chain and tensioning elements (shown figure 3-c5-2). slacken bolts of front/back chain's bearing bolts (do not disassemble them). Pull Front chain to front of the machine and screw bolt front chain's bearing. And after Turn chain tension bolt to tension direction. When tensed the chain screw bolt of back chain gear's bearing (the chain must not many tens or many slack). Befor tensioning operation check two cahin gear , they must be parallel to themself and to main body profiles. check the motor run and after start it automatic.

- If the roller unit do hard brake and hard motion.

If the roller unit do hard brake and hard motion than there is a problem on motor speed driver's settings. The motor speed drivers are inside of electric panel back side. When you open back cover of electric panel you can see two speed driver. Small driver is for the roller turning speed drive and the other big is for the roller Unit. To change settings of speed driver , use manual guide box of speed driver. You can find it front cover of electric panel (there is a shelf inside of front cover).

#### 4-MAINTENANCE INSTRUCTIONS:

The machines are like living organismes. When a people do not apply rules of hygien or when peoples without energy and vitamins then the people be patient and weak just like machines be not of use. So we make maintenance of the machine as needed. Maintenance get your machine long time working. Explaining in this chapter our advises as daily , weekly , yearly periods. To do this conditions is concern warranty of the machine.

##### a) Daily maintenance:

- You must check rails on the machine left and right sides every morning. If there is an another pieces (gland , piece of wood , solid flour , bolt etc.) on the rails you must take or clean it. Otherwise the rails and lineer motion elements can be damage.
- You must check the roller unit motion area. If there is an another materials (chair , workbench etc.) on the motion area you must take it. Otherwise the roller unit crash it and matterials or the machine can be damage.
- Clean up side of circular yufka tray every morning. If there is a solid material up side of circular tray , it can cause break or form change of the rollers.
- Clean to use dry gland piles of flour on the circular tray , on satainles steel sheets , on the rails and on the rollers every work finishing. If there is solid flour , clean it to use moist gland and you never scrape with hard materials all parts of machine.

## b) Weekly maintenance:

- Clean the rollers to use wet gland. you never scrape with hard materials the rollers.
- Clean all stainless steel sheets to use wet gland and after dry they. never scrape with hard materials.
- Clean the touchable screen to use moist gland and close electric panel cleaning during

## c) Yearly maintenance:

Yearly maintenance do by EKA MAKİNE company.

## d) Oil change of reducers:

- There is three reductor on the machine. One reductor of three oil change time is 20.000 hour and for others oil change time is 10.000 hour. If The machine maximum work time is 10 hour in day and if it work all days of week , oil change time for 20.000 hour is 5,5 year and for 10.000 hour aproximately is 3 year. You can apply to EKA makine company for this job or you can do change of oil to. If you want to do change of oil you can see change time and oil dose in schedule below of this chapter. Never use synthetic oil instead of mineral oil or mineral oil intead synthetic oil. You must do to change oil after minimum one hour working of the machine. Oil inside of the reductor must be hot for change otherwise you cannot discharge all oil inside of reductor and new oil and old oil mix.

order no	reductor name	oil type	oil dose	BP oil type	MOBİL oil type	CASTROL oil type	oil change period
01	the rollers reductor	synthetic	0,10 lt	enersyn SG-XP220	gylgole HE 220	alphasyon PG 220	5,5 year
02	the roller unit motion reductor	mineral	2,10 lt	energol GR-XP220	mobilgear 630	alpha SP 220	3,0 year
03	circular yufka tray turning reductor	synthetic	0,04 lt	enersyn SG-XP220	gylgole HE 220	alphasyon PG 220	5,5 year

oil change time and dose Schedule

## 5-INFORMATION ABOUT EKA MAKİNA COMPANY.



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## 6-INFORMATION ABOUT PATENT.

The machine all right reserved by patent register office. If determines any copy attempt , about copper and partners (including machine owner) will bring a lawsuit.

**PATENTED !!!**

