

Koprulu Makine Hirdavat Insaat Tarim Gida Biyoenerji Kimya Sanayi ve Ticaret Ltd Sti.

Our company is established in 1978 and became limited company in 1998 and until that time we have been exportin our own products that we manufactured. We are both manufacturer and exporter company. We have exported many countries (i.e Pakistan, USA, US, Greece, Saudi Arabia, Hong Kong etc) up to now.

Our company, Koprulu Makine Hirdavat Insaat Tarim Gida Bioenerji Kimya Sanayi ve Ticaret Ltd Sti, is a key enterprise specialized in manufacturing cold oil press, biodiesel processor, ecological olive-oil plant etc. since 1998. Our company takes advantage of a long experience achieved in machine industry, in a continuous technological research and in an accurate study of materials and new technology, so we can produce suitable machine for you. We trust you will be interested in our machine. Reasons as follow:

1. You can get competitive price:

Our factory is one of the leading machine producing base in Turkey
Low cost of transportation.

2. You can enjoy best service:

Efficiency team of us;
At your service always with our trust;
Service after sale: Good packing and quick transportation;

We have a very well reputation by our customers. I think it will bring your firm enormous profits.

Main products that we produce and export:

1-Metal working machines

1. 1 Eccentric Press
1. 2 Manuel and motor operated 3-roll bending machines
1. 3 Manuel folding
1. 4 Motor operated border machines

2-Coordinate Tables

3-Vices

4-Oil Press and filtration Pres

5-Biodiesel Processors

6-Biodiesel Plant

BIODIESEL PROCESSORS



MANUAL BIODIESEL PROCESSOR

This unit is composed of two parts within itself. At the bottom part, there is a mixing tank. In this tank, vegetable oil and metoxit are mixed 1.5 hours at 60°C. At the upper part, necessary water is being warehoused to wash biodiesel that is formed. By the way, the temperature of the water increases to 50°C until biodiesel is formed. As you know, hot water dissolves waxes in biodiesel better than the others. And this increases the quality of biodiesel. Washing pump is run when the washing procedure is started. Sprey is run with pump pressure and better quality surface contact of biodiesel and water is performed. Then this hot water gains an insight into all biodiesel. As you know, washing procedure is one of the most important criteria for biodiesel. If biodiesel is not washed well, it may easily damage your car because of the waxes in biodiesel.

Technical Data:

1-KOBI-M 250

250lt reactor
Capacity of biodiesel: 250lt/batch (one batch is 8hours)
Crome mixing pump: 1HP
Washing pump: 0.5 HP
Sprey system
Electricity panel
Digital thermo control system: 100°C
Heater thermo control system: 6000 watt
Voltage: 110/220/380V

2- KOBI-M 400

400lt reactor
Capacity of biodiesel: 400lt/batch (one batch is 8 hours)
Crome mixing pump: 1HP
Washing pump: 0.5 HP
Sprey system
Electricity panel
Digital thermo control system: 100°C
Heater thermo control system: 10000 watt
Voltage: 110/220/380V



PROGRESSIVE BIODIESEL PROCESSOR

KOBI-A is a progressive process. It is composed of three parts:

- 1-Mixing reactor tank
- 2-Washing unit
- 3-Resting tank

In the first stage; it is made with the same method as in KOBI-M. Biodiesel is sent to washing tank, which is second stage, after biodiesel is departed from glycerin. The process may be repeated by filling the first tank with raw material.

In the second stage; biodiesel, that is loaded into the washing tank, and hot water, that comes from the first tank, are washed by the pressurized spray. You may repeat this process more than one. Then dirty water, which is subsided, is decomposed from the biodiesel and after this process it is sent to the third stage which is resting tank. It is advised you to work with stock because the good has to wait 3 days in resting tank. At the end of third day, you can use your biodiesel with sure touch. When you want to fill your vehicle up with biodiesel, firstly run diesel pump. Then biodiesel passes through diesel filter (50 micron) and then it reaches to the diesel gun after passing through diesel counter. In this way, you can fill up your vehicle with biodiesel by reading the meter according to your need.



SEMIAUTOMATIC BIODIESEL PROCESSOR

Working principle is same as the system in KOBİ-A. In this system, autocontrol is applied during the stage.

After reaction process finishes, machine stops automatically. When the glycerin sedimentation process finishes, you are warned by alarm. Then you disburden glycerin and send biodiesel to the washing tank. In here, valves are automatically being opened and being closed. Machine washes the product automatically and waits dirty water to subside. When dirty water subsides completely, you are warned by an alarm. After dirty water is disburdened, biodiesel is sent to the resting tank. By the way, valves are automatically being opened and closed during all these processes. When you want to fill biodiesel to your vehicle, you first push the diesel pump button and then you may fill up your car with biodiesel according to your need.

System informations:

- Semiautomatic
- Gradual Process
- Automatically controlled valves
- Automatic washing
- Warning lamp
- High quality product
- Comfort in production

Capacities: 200lt/batch , 400lt/batch



KOBI HDPE 75 BIODIESEL PROCESSOR

KOBI HDPE 75 Technical Data :

75 lt HDPE Reactore module

Processor is designed around a sealed HDPE cone bottom tank on a heavy steel frame.

Batch Production :75 lt

Maximum Production :300 lt/day

Heating : 1*1500 Watt heating element

Metoxide Tank : 20 lt

Power :220-380 Volt 50 HZ

Pump : 40 lt /Min 350 Watt Pump

Methanol recovery system



KOBI 100 INTEGRATED BIODIESEL PROCESSOR AND SCREW PRESS

KOBI 100 Integrated Includes:

1-KYP 45 Cold Oil Press

2-KOBI HDPE 75

Capacity: Makes approx. 100 Liter of Biodiesel per day

Product Data:

Daily 100 lt capacity biodiesel reactor+cold oil press.

This reactor and cold oil press are integrated.

So that farmers will be able to both take oil out from their own crops and produce oil-cake for their animals and also produce their fuel that is necessary for their tractors.

This model which we developed for farmers works with 110-220 volt home circulation. Aim: this model is developed for farmers. They will get oil from their crops thus they will produce their own biodiesel by this way.

Thereby, the farmer will be able to produce his/her own biodiesel by getting out his own crop's oil about the cost of 30-40 cents. Also the oil-cake which is taken out can be used as animal feed.

The advantages of integrated system :

- 1-Less energy consumption
- 2-Less glycerin will come out in the production of biodiesel (nearly %5-%7)
- 3-To be able to consume for nutrition
- 4-High quality of oil-cake



BIODIESEL FILTRATION PRESS

<u>TYPE</u>	<u>CAPACITY</u>
KFP50	500lt/hr
KFP100	1000lt/hr
KFP200	2000lt./hr



COLD OIL PRESSES



3 SETS OF OIL PRESSES



4 SETS OF OIL PRESSES



COLD OIL PRESS WOTH PRE-GRINDER



COLD OIL PRESSES WITH VARIO SPEED CONTROL



OIL FILTRATION PRESS

COLD OIL PRESS KYP20&KYP45&KYP55

Technical Data For KYP 20:

Capacity : 200 kg/day
Electrical voltage : 220/380 V 50 Hz
Motor Power : 1.1 Kw Heat
Power : 230 Watt
Temperature control : 0-100 'C
Nozzles diameters : 4 mm , 6 mm,8 mm

Technical Data For KYP 45:

Capacity :450 Kg/day
Electrical Voltage : 220/380 V 50 Hz
Motor Power: 2,2 Kw
Heat Power :230 Watt
Temperature Control: 0-100 'C
Nozzles Dia. : 4 mm,6 mm,8 mm



Technical Data For KYP 55

Capacity:550 kg seed/day
Electrical voltage: 380V 50 Hz
Motor Power:3Kw
Heat Power:230 Watt
Temperature control:0-100 'C
Nozzles diameters: 8,1mm

Example of seed type which can be pressed

Canola, Flax, Susame, Sunflower, Hemp, Hazelnut, Peanut, Cotton, Hemp, Arrow-root, Poppy, Grape, Rapeseed, Linseed, Cumin, Mustard, Poppy, Nettle, Bitter almond, Kernel, Tomato, Rosehip, Sunflower, Safflower, Walnut, Apricot Kernel etc.

COLD OIL PRESS KYP20D&KYP45D

Technical Data For KYP 20D

Vario Speed Control

Capacity:75-200 kg seed/day

Electrical voltage:110/220/380V 50 Hz

Motor Power:1.1Kw

Heat Power:230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm



Technical Data For KYP 45D

Vario Speed Control

Capacity:150-450 kg seed/day

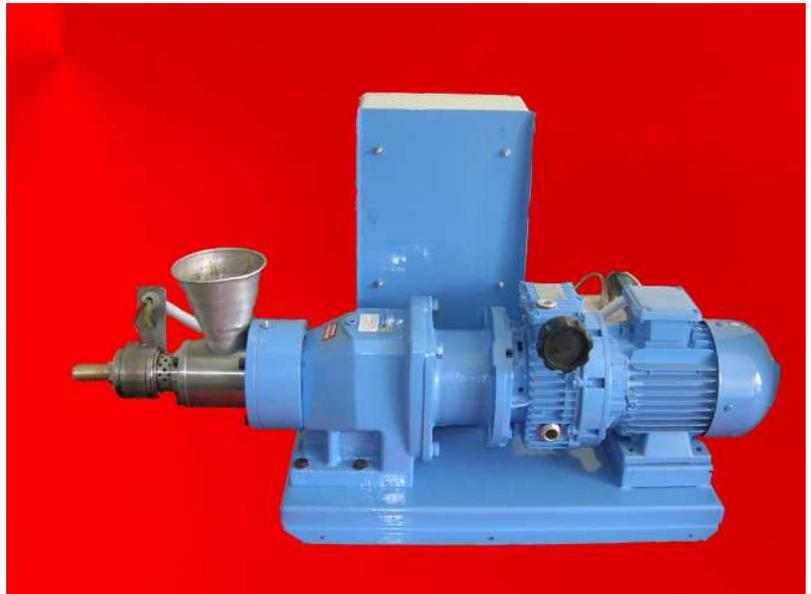
Electrical voltage:110/220/380V 50 Hz

Motor Power:2.2Kw

Heat Power:230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm



(Because of vario speed control, you can press hazelnut,flax,almond kernel,apricot kernel,peanut with high productivity)

COLD OIL PRESS KYPS60&KYPS135

Technical Data For KYPS 60

3 Set of KYP 20 Cold Oil Press

Capacity : 600 Kg/ day

Electrical voltage:110/220/380V 50 Hz

Motor Power:3x1,1Kw

Heat Power:3x230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm

Includes; Table, Conveyor Worm and Silo



Technical Data For KYPS 135

3 Set of KYP 45 Cold Oil Press

Capacity : 1350 Kg/ day

Electrical voltage:110/220/380V 50 Hz

Motor Power:3x2,2Kw

Heat Power:3x230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm

Includes; Table, Conveyor Worm and Silo



If you would like to increase capacity , just connect the other unit step by step

COLD OIL PRESS KYPS80&KYPS80D&KYPS180

Technical Data For KYPS 80

4 Set of KYP 20 Cold Oil Press

Capacity : 800 Kg/ day

Electrical voltage:110/220/380V 50 Hz

Motor Power:4x1,1Kw

Heat Power:4x230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm

Includes; Table, Conveyor Worm and Silo



Technical Data For KYPS 80D

4 Set of KYP 20D Cold Oil Press

Capacity : 300-800 Kg/ day

Electrical voltage:110/220/380V 50 Hz

Motor Power:4x1,1Kw

Heat Power:4x230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm

Includes; Table, Conveyor Worm and Silo

Technical Data For KYPS 180

4 Set of KYP 45 Cold Oil Press

Capacity : 1800 Kg/ day

Electrical voltage:110/220/380V 50 Hz

Motor Power:4x2,2Kw

Heat Power:4x230 Watt

Temperature control:0-100 'C

Nozzles diameters:4mm ,6mm, 8mm

Includes; Table, Conveyor Worm, silo

OIL FILTRATION PRESS

<u>TYPE</u>	<u>CAPACITY</u>
KFP50	250lt/hr
KFP100	500lt/hr
KFP200	1000lt./hr



ECOLOGICAL OLIVE-OIL PLANT



ECOLOGICAL OLIVE OIL PLANT

This is ecological olive oil plant. This type of plant is useful for the environment because no black water exits from the plant. Product output is with 2 phases. These outputs are olive-oil and olive-pomace oil. Operation temperature is 28 celcius degree. That's why, at the end of this plant, the quality you get is the same as extra virgin oil.

As the decanter has two phases there is only an output of %50 or %70 moisturized pomace depending on the processed olive and oil. The BLACK WATER can not be seen as we do not use water in our machine. For this reason, we save approximately daily 15 metric tons of water (app. 900 MT for places where season duration is 60 day seasons) fuel to warm up this water, the cost of pools to keep the waste and the land for pools.

The oil rate of the pomace that goes out decanter is calculated as 2,2% or 3,5% as a result of tests that are done.

MODULER PROCESS UNIT (In the plant)

A-Olive carrying machine

1. Olive carrying line
2. Leaf aspirator
3. Olive washing machine
4. Feeding screw conveyer for the crasher

B- Paste Prepare Unit

1. Olive crasher
2. Moduler mixer
3. Decanter
4. Vibration sieve
5. Paste pump
6. Oil pump
7. Cake carrying line

C- Control Panel

Capacities; 250kg/hr , 400kg/hr and 1 ton/hr