



## Modular Olive Oil Processing Unit



# According to us it is possible...

We give the same answer for 45 years to those who asked us what is the biggest difference that separates you from others:

The capability of creating new ideas.

Because any new demand that you encounter in the sector is a unique testing that can be solved with creative and innovative mind.



**Lowering the cost with excellent energy efficiency?**

**according to us it is possible...**

Let's say, you want to maximize business profitability without giving up from reliable performance.

Don't worry, you can assure this in three ways with Polat products.

- 1- By saving energy.
- 2- By making processes productive.
- 3- By minimising total life cycle cost of your machinery.



**Remote control with your mobile phone?**

**according to us it is possible...**

Let's say, you need different requirements for different applications.

Don't worry, Polat offers ideal solutions to different processes and industrial areas.

The most suitable designs are created for the total production process that you required and after the installation of machines in place, they are commissioned.

In this process, every stage is under the control of Polat specialists.



**Capacity increase without buying a new system?**

**according to us it is possible...**

Let's say, you want to increase capacity without ruining your present investment; however, you are told that without buying a new machine it is impossible.

Don't worry, Polat has an engineering skill that it developed for this and call it **"lego system"**

Just buying the new unit as you needed, you can add it to your old system and increase your production.



**Does it seems impossible at first sight?**

**according to us it is possible...**

Let's say, some physical negativities such as area narrowness make a trouble for your new machine that you want to buy.

Even you are told that it is impossible like this.

Don't worry, Polat specialists will develop a special project with their knowledge and specialties and they will realize **"dependently positioning"** like a dexterous tailor.

In addition, Polat products needs smaller areas than other alternative systems with their excellent designs.

**365 days 7/24  
excellent service**



**A fast service that reduce downtime to zero?  
according to us it is possible...**

Let's say, the most important preference criteria for you is fast service and spare part solutions.

Don't worry, you are in the right place.

Polat Service Department provides a wide range of service without making distinctions between small and big machines.

Upon demand, periodic controls of process performance and mechanical conditions in customers' operations with service contracts and a flawless service is provided for supplying of original spare part and trouble-free changing fields

**Yes, according to us perfectness is possible.**

# In 5 continents

## Exportation to 44 countries

Group companies in 3 countries

Dealership, distributorship and agency in 14 countries.

### Dealer & Distributor & Agency

Germany  
Spain  
Belgium  
Ukraine  
Russia  
China  
Argentina  
Brazil  
Iran  
Malaysia  
Egypt  
Tunisia  
Jordan (Middle East)  
Algeria



### Group Companies

Greece  
Morocco  
Italy



### Exported Countries

- |                 |                 |                  |                |                    |                |
|-----------------|-----------------|------------------|----------------|--------------------|----------------|
| 1• U.S.A.       | 9• Kazakhstan   | 17• Libya        | 25• Cyprus     | 33• Germany        | 41• Uzbekistan |
| 2• Saudi Arabia | 10• Ukraine     | 18• Qatar        | 26• Syria      | 34• United Kingdom | 42• Kosovo     |
| 3• Greece       | 11• Albania     | 19• Algeria      | 27• Iraq       | 35• Spain          | 43• Poland     |
| 4• Italy        | 12• Sudan       | 20• Georgia      | 28• Iran       | 36• China          | 44• Malaysia   |
| 5• Tunisia      | 13• Romania     | 21• South Africa | 29• Australia  | 37• Argentina      |                |
| 6• Morocco      | 14• Russia      | 22• Lebanon      | 30• Jordan     | 38• Brazil         |                |
| 7• Belgium      | 15• Nicaragua   | 23• Palestine    | 31• Azerbaijan | 39• Ethiopia       |                |
| 8• Slovakia     | 16• Switzerland | 24• Egypt        | 32• India      | 40• Tatarstan      |                |

**PXZ 100** series



 **PX20 Series**

Capacity 20 ton/day  
Installed power 50 Kw  
Conveyor Belt PMS / B 23  
Washer PMS / Y 23  
Crusher PMS / K 320  
Malaxer PMS / VX 1350  
Decanter PMS 350 / PX 20  
Separator PMS 305

 **PX30 Series**

Capacity 30 ton/day  
Installed power 55 Kw  
Conveyor Belt PMS / B 23  
Washer PMS / Y 23  
Crusher PMS / K 320  
Malaxer PMS / VX 1800  
Decanter PMS 350 / PX 30  
Separator PMS 305

 **PX40 Series**

Capacity 40 ton/day  
Installed power 88 Kw  
Conveyor Belt PMS / B 479  
Washer PMS / Y 479  
Crusher PMS / K 352  
Malaxer PMS / PM 4700  
Decanter PMS 350 / PXZ 40  
Separator PMS 405

 **PXZ60 Series**

Capacity 60 ton/day  
Installed power 104 Kw  
Conveyor Belt PMS / B 479  
Washer PMS / Y 479  
Crusher PMS / K 430  
Malaxer PMS / PM 6700  
Decanter PMS 470 / PXZ 60  
Separator PMS 405

 **PXZ80 Series**

Capacity 80 ton/day  
Installed power 118 Kw  
Conveyor Belt PMS / B 479  
Washer PMS / Y 479  
Crusher PMS / K 440  
Malaxer PMS / PM 7700  
Decanter PMS 470 / PXZ 80  
Separator PMS 505

 **PXZ100 Series**

Capacity 100 ton/day  
Installed power 138 Kw  
Conveyor Belt PMS / B 479  
Washer PMS / Y 479  
Crusher PMS / K 450  
Malaxer PMS / PM 8700  
Decanter PMS 470 / PXZ 100  
Separator PMS 505

 **PXZ160 Series**

Capacity 160 ton/day  
Installed power 187 Kw  
Conveyor Belt PMS / B 1225  
Washer PMS / Y 1225  
Crusher PMS / K 460  
Malaxer PMS / MM 10000  
Decanter PMS 570 / PXZ 160  
Separator 2 X PMS 505

## Modular Malaxer



	Capacity (LT)	Motor Power (kW)	Dimensions (cm)
<b>PMS / VX 1350</b>	3x450	5,5	249x190x317
<b>PMS / VX 1800</b>	4x450	6,6	249x190x376
<b>PMS / PM 4700</b>	4x700	7,35	258x217x490
<b>PMS / PM 6700</b>	6x700	9,55	258x224x636
<b>PMS / PM 7700</b>	7x700	10,65	258x224x709
<b>PMS / PM 8700</b>	8x700	11,75	258x224x782
<b>PMS / MM 10000</b>	10000	12,1	196x297x828

Malaxer described as modular malaxer, corresponding completely to its word meaning, is a constituted system by gathering of malaxer sections independently from each other.

Visual quality as well as performance and operational easiness features in the malaxer design. With its new face, malaxer get a new appearance. Thanks to malaxer connecting methods convenience to modularity, flexibility is provided for placing malaxer feeding and paste outlets. Due to this flexibility, equipment suitable for operational area is provided instead of operational area suitable for equipment.

A great efficiency of the heating system and helix flights is available in the malaxing process time and malaxing process quality of the olive paste.

The heating system, feeding water for each section in equal temperatures at the same time, provides the sections temperature being equal and staying at this value. And this means that malaxing process is at the same and demanded temperatures values for olive paste in different section.

Since any point that paste touches can be heated by heating jackets, generation of temperature differences are prevented in the paste.

- Due to special design of helix flights in the malaxer sections, olive paste is provided with a homogeneous state realizing an effective mixing.
- Through with glass cover, visibility of processed product is targeted. Having been designed according to ergonomic visible angle, cover angle provides an easy and comfortable monitoring facility.
- Led illumination in the glass cover enables vision while resistance system provide a clear vision by hampering vaporization.
- Sight glasses have been placed in the entry line of the product for each section, being able to see and gaining control of the product is aimed.
- Feeding olive paste to malaxer sections is controlled by butterfly valves manufactured from stainless steel material. As to be controlled with pneumatic actuator system, valves are designed. (Option)
- Additionally, heating probe for controlling paste temperature by pressure of the pump on the discharge line and level sensors for preventing the pump from unnecessary working are available.

## Olive Oil Decaners



	Bowl Diameter (mm)	Motor Power (kW)	Driver	Weight (Kg)
<b>PMS 350 / PX 20</b>	350	11	VFD	1250
<b>PMS 350 / PX 30</b>	350	15	VFD	1350
<b>PMS 350 / PXZ 40</b>	350	22 + 15	VFD	1750
<b>PMS 470 / PXZ 60</b>	470	30 + 15	VFD	2700
<b>PMS 470 / PXZ 80</b>	470	30 + 15	VFD	2850
<b>PMS 470 / PXZ 100</b>	470	37+18,5	VFD	3200
<b>PMS 570 / PXZ 160</b>	570	55+22	VFD	5800

Decaners, are placed in the center of modern olive oil line. Used for separating oil, olive pomace and water at 3 phase system; oil and olive pomace at 2 phase system from olive paste. Decaners are suitable for 2 phases, 3 phases and cold extraction processes. 2 and 3 phase decaners are designed with Polat's experience over 40 years.

### Features of Polat Decaners

- Cycloidal gearbox for higher strength and reliability
- Bowl and conveyor geometry developed for maximum productivity
- Maximum performance and wear protection thanks to special conveyor feed zone
- High quality stainless steel material in conformity with food law
- Special coating application for maximum wear protection
- Longer service intervals and lower maintenance costs
- Adjustable differential speed



## Olive Oil Separators



	Bowl Diameter (mm)	Motor Power (kW)	Bowl Speed (rpm)	Weight (Kg)
<b>PMS 405</b>	405	5,5	6500	702
<b>PMS 405 (Automatic)</b>	405	5,5	6500	702
<b>PMS 505</b>	505	11	5500	1230
<b>PMS 505 (Automatic)</b>	505	11	5500	1230

Separators are the last station of olive oil process. They polish the olive oil by separating the remaining water and slim residues in the olive oil which is separated in decanter.

- Bowl manufactured specially for higher strength and reliability
- Bowl and disc geometry developed for maximum separation productivity
- Minimum oil loss with hydraulic discharge system
- High quality stainless steel material in conformity with food law
- Continuous process facility
- Long lifetime with easy installation and operating feature



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Polat reserves the right of design and technical changes for itself to change machine.

