



Dairy Technologies

POLAT Makina Separator Series, the best of its class in terms of performance and efficiency

Polat Makina allows you to obtain more sensitive and higher quality products in line with customer expectations and considering food safety.

POLAT Makina combines the best quality with best price.



POLAT Makina offers cream and cleaning separators at different capacities which exist in its product range which works at full capacity in order to optimize the performance requirements of modern facilities with its separators.

POLAT Makina combines the reliability of product quality, high performance and best price with the design of its separators.

Cream Separator and Clarifiers of POLAT Makina are designed for getting a high-quality product with quick and sensitive process.

You will get cleaner dairy products with milk fat and skim milk that separated from undesired particles with Polat separators.

The quick and sensitive process leads to the reliability of product quality.

POLAT Makina Separators show the higher performance in the separation of fat from whole milk and its clarification.

POLAT Makina Separator designs are energy saving instrument as well as sensitive product processing. As a result, POLAT Makina Separators are unique in terms of following applications.

- Milk Clarification
- Hot Milk Cream Separation
- Whey Separation

In 5 continents Exportation to 35 countries

Group companies in 3 countries

Dealership, distributorship and agency in 10 countries.

Dealer & Distributor & Agency

- Tunisia
- Jordan (Middle East)
- Algeria
- Belgium
- Slovakia
- Russia
- Ukraine
- Germany
- United Kingdom
- Spain



Group Companies

- Greece
- Morocco
- Italy



Exported Countries

- | | | | | | |
|-----------------|---------------|-----------------|------------------|---------------|--------------------|
| 1• U.S.A. | 7• Belgium | 13• Romania | 19• Algeria | 25• TRNC | 31• Azerbaijan |
| 2• Saudi Arabia | 8• Slovakia | 14• Russia | 20• Georgia | 26• Syria | 32• India |
| 3• Greece | 9• Kazakhstan | 15• Nicaragua | 21• South Africa | 27• Iraq | 33• Germany |
| 4• Italy | 10• Ukraine | 16• Switzerland | 22• Lebanon | 28• Iran | 34• United Kingdom |
| 5• Tunisia | 11• Albania | 17• Libya | 23• Palestine | 29• Australia | 35• Spain |
| 6• Morocco | 12• Sudan | 18• Qatar | 24• Egypt | 30• Jordan | |



Polat Makina Dairy Separators are designed to work in compliance with the CIP (on-site cleaning) system and 24-hour continuous operation at the capacities that will meet customer needs.

POLAT Makina Milk Separators have automated cleaning bowl. The contaminations that accumulate in the bowl is discharged with the help of a moving bowl at periodic time intervals set from the control panel.

The movement of the moving bowl is executed through operation water which controlled by solenoid valves. Bowl is produced by using duplex (DIN 1,4462) stainless steel material which has mechanical durability and resistance against corrosion. Product enters into and exits from bowl via closed pipe system.

Entrance and exit joints of the separator are suitable to DIN 11850 and ISO 2037 standards. All parts contacted to the product are completely produced from stainless steel.



Upper and lower covers of bowl, contamination chamber and cyclone which positioned on bowl housing are made entirely from stainless steel and equipped with soundproofing design.

The motor has a protector which made from stainless steel material and protected with thermal protection system. It operates with the inverter (speed control) that available in the 3-phase motor control panel.

All controls of the separator are made by programmable power and PLC control panel. This PLC control panel is completely produced from a stainless steel material

There is a touchscreen on the control panel where the bowl rotation speed, the separator electric current, the blasting time interval and the remaining time for the discharge can be seen.

In addition, there are stainless steel manometers which showing milk and cream outlet pressures and valves that made from stainless steel material to adjust these pressures.



Milk Clarifiers Separators

Purpose of Milk Clarifier Separators are to separate suspended contaminations within the milk and increase the quality of milk. Design of POLAT Makina Milk Clarifier Separators are made to be adapted to CIP system. Control panel, hydrophore system and separator are mounted on a platform made from stainless steel material. Thus, installation and control are quite easy.

Model	Max. Capacity	Power
TX 3	5.000 lt/hr	11 Kw
TX 4	10.000 lt/hr	18,5 Kw
TX 5	15.000 lt/hr	22 Kw
TX 5L	20.000 lt/hr	30 Kw
TX 6	25.000 lt/hr	30 Kw
TX 6L	30.000 lt/hr	37 Kw

Cream Separators

Cream separators aim to separate milk fat from milk. The separation process is included in the pasteurization line. Benefiting the special bowl design, the discharged cream from POLAT Makina cream separators can contain up to 65% of fat. The efficiency of the cream separators has been optimized and in general, the fat ratio in the skimmed milk is increased down to 0,05%. As in all separation processes, many process terms (temperature, pressure...) are important over the following values..

Model	Max. Cream Separation Capacity	Max. Standardization Capacity	Power
CX 3	3.000 lt/hr	4.500 lt/hr	7,5 Kw
CX 4	5.000 lt/hr	7.500 lt/hr	11 Kw
CX 5	10.000 lt/hr	15.000 lt/hr	22 Kw
CX 6	15.000 lt/hr	20.000 lt/hr	30 Kw

Whey Separators

The function of whey separators is to recover the useful milk fat in cheese whey at the highest possible level. Cleaning of the whey separators before process shall increase the separation efficiency. According to the type of whey separators, a fat content of the fat-free whey can be reduced to 0,05%, a fat content of cream can be increased up to 30%.

Model	Max. Capacity	Power	Total Weight
CX 3	4.500 lt/hr	7,5 Kw	450 Kg
CX 4	7.500 lt/hr	11 Kw	990 Kg
CX 5	15.000 lt/hr	22 Kw	1190 Kg
CX 6	20.000 lt/hr	30 Kw	1600 Kg

POLAT Makina Separators offers you a perfect product quality, timeless separation efficiency and affordable prices for milk processing.

As a consequence, there is a strong determination in performances of POLAT Separators and this enables you to get a high profit.

Quality and security

Polat Makina manufactures parts and bowls that increase the efficiency of separation which requires the critical special operations in its facilities in Aydın.

All equipments are manufactured in accordance with manufacturing standards. Centrifugal equipment is produced in a precise manner by using the highest quality stainless steel, special alloys and other high-quality materials.

Quality engineering and control

- Structural and dynamic design optimization by using cutting-edge design technologies
- Optimization of fluid product dynamics with special bowl design
- Superior production and quality control systems

Service and support for maximum efficiency

- Maintenance and problem solutions - prevention for costly stops
- Delivery of original spare parts on time - reliability for long-time service span

Information partnership for being the best

- R&D proficiency - development of new products upon customer demands
- Operator trainings - high efficiency, minimum human error

Efficiency and reliability

For critical production process, POLAT Makina uses the detailed manufacturing and control plans and achieves this with special dynamic rotor balance procedure.

The tests applied are 3D measurement, painted penetrant and hydraulic tests.

Polat Makina provides the most effective solutions to develop and improve products and processes of its solution partners.

These effective solutions are designed to increase production qualities and efficiency in processes in accordance with customer needs. Treats your products very sensitively. Sales and after sale services are economical.

As today, POLAT Makina will also design, meet and develop your needs for separation tomorrow.

We work for you,
We produce for you,
We add more power
to your power.

365 days 7/24
excellent service



A fast service that reduce downtime to zero?

it is possible for us...

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.



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