



Industrial Solutions

Application Areas



Environment

Polat decanters are used in thickening and dewatering processes in Municipality Waste Water Treatment and drinking water treatment and Industrial Treatment Facilities. Aim of dewatering; is to make treatment sludge arising in municipal and industrial application areas be removed economically without harming the environment.



Mine

Polat Machinery offers best solution for many different application along with its quality products to increase production and efficiency and providing producing final product. Industrial applications such as Boron and baryte mineral acquisition, coal slime, tunnel works sledge control are done ideally by using cutting-edge technology of Polat.



Oil

In today's oil sector, decanters are actively used to separate different emulsions and oil-water-solid mixtures as 2 or 3 phase. Making environment friendly designs with intensive engineering and R&D works; Polat Machinery offers high standard solutions in special areas such as refineries, oil drilling wells with centrifuge decanters and separators which are produced by it and automated, reliable, suitable for continuous works, and perfectly controllable in terms of process.



Food

Meeting expectations of both consumers and food producers, and being produced in accordance with alimentary products law, Polat horizontal and vertical centrifuge equipment (decanters and separators) are used in fruit juice and drink, vegetable oils, alcohol beverages, starch and yeast industries. In food field where hygiene has a primary importance, products of Polat provide ultimate security.



Industrial

Main purpose of decanting process in industries is to recycle valuable raw materials of production waste with low investment and commissioning costs and remove non-renewable waste without harming the environment. In this context, in rendering facilities, sugar refineries, chemical industry, dewatering of animal fertilizers, maritime waste, biodiesel applications, a perfect outcome is reachable with Polat decanters.

Petroleum Application Solutions



These decanters are developed for products which are requested to decant solid-liquid-liquid phases. Separating solid phase and phase of two liquids at different density with single equipment make reaching a quality final product easier with less equipment and cost, and needing less place.

Basic usage areas of decanter and separator in oil industry:

- Processing the crude oil to separate it from sand and water
- Processing the sludge piled on bottoms of crude oil storing tanks
- Processing slop oil
- Processing oily sludge in oil refineries
- Acquisition of oil and water in oil collecting or drying bears
- Processing fuel and engine oils to decant water and sludge particles

Advantages of using decanters and separators of Polat machinery in oil industry:

- Special design providing general blaze protection and explosion protection standards (ATEX Certificate)
- Maximum protection against low and high temperatures
- Extra protection against corrosive and hazardous materials
- Human and environment safety at maximum level
- Applying obligatory standards on final end product under regulations
- Automates system not requiring man power
- Remotely controllable with PLC and SCADA,
- Cleaner environment, less necessity of large place, less odor and low aerosol problem life cycle cost,

In 5 continents Exportation to 36 countries

Group companies in 3 countries

Dealership, distributorship and agency in 12 countries.

Dealer & Distributor & Agency

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



Group Companies

- Greece
- Morocco
- Italy



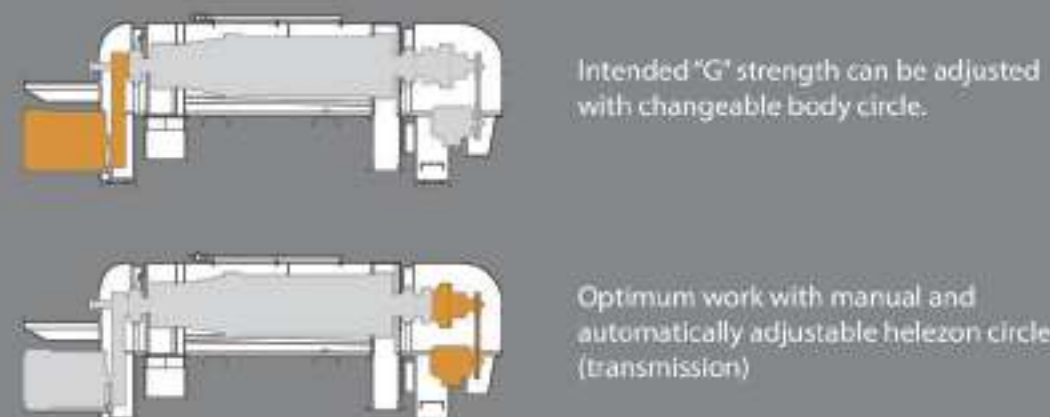
Exported Countries

- | | | | | | |
|-----------------|---------------|-----------------|------------------|---------------|--------------------|
| 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 | 36• China |

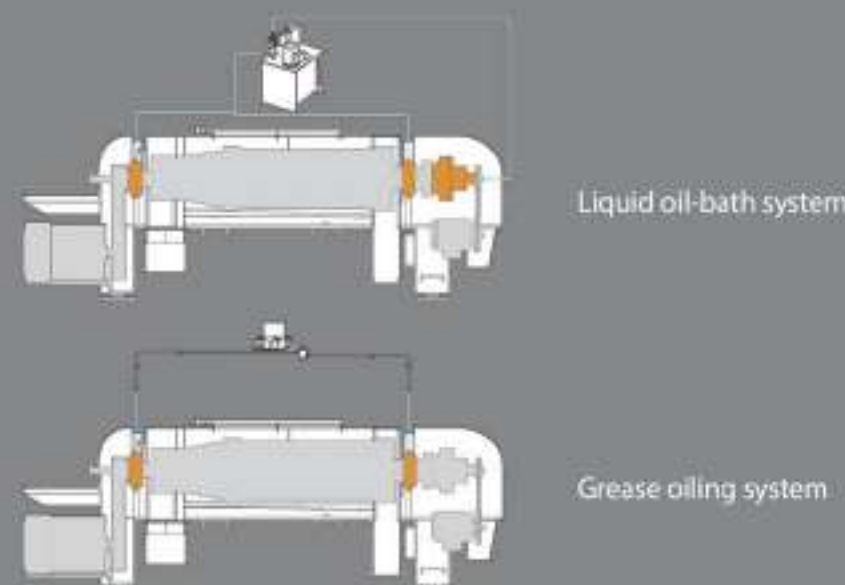
Product Input and Solid & Liquid Output



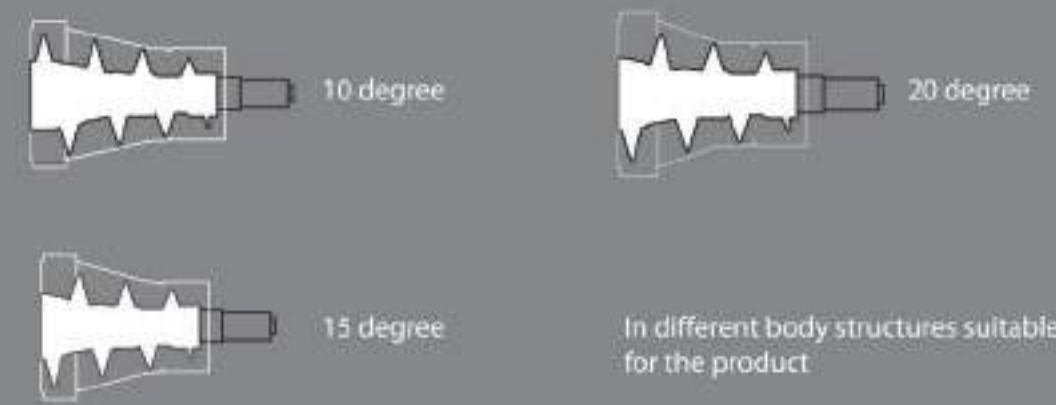
Engine & Transmission



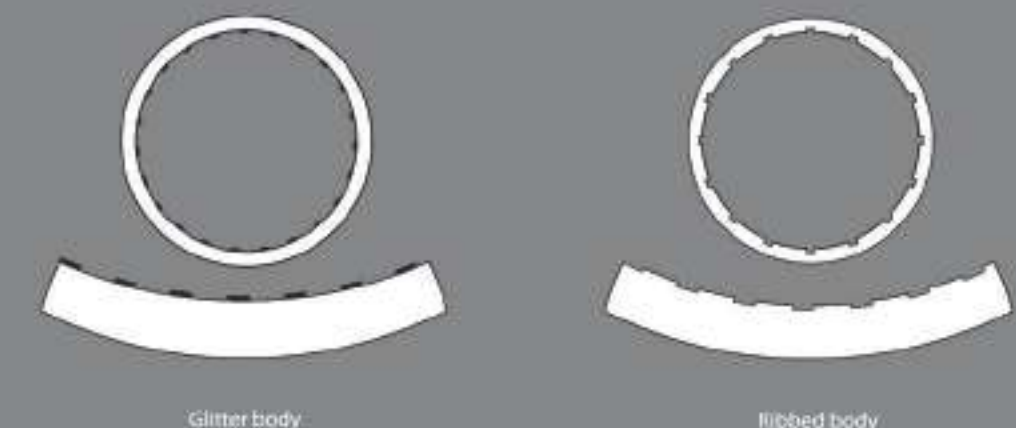
Oiling



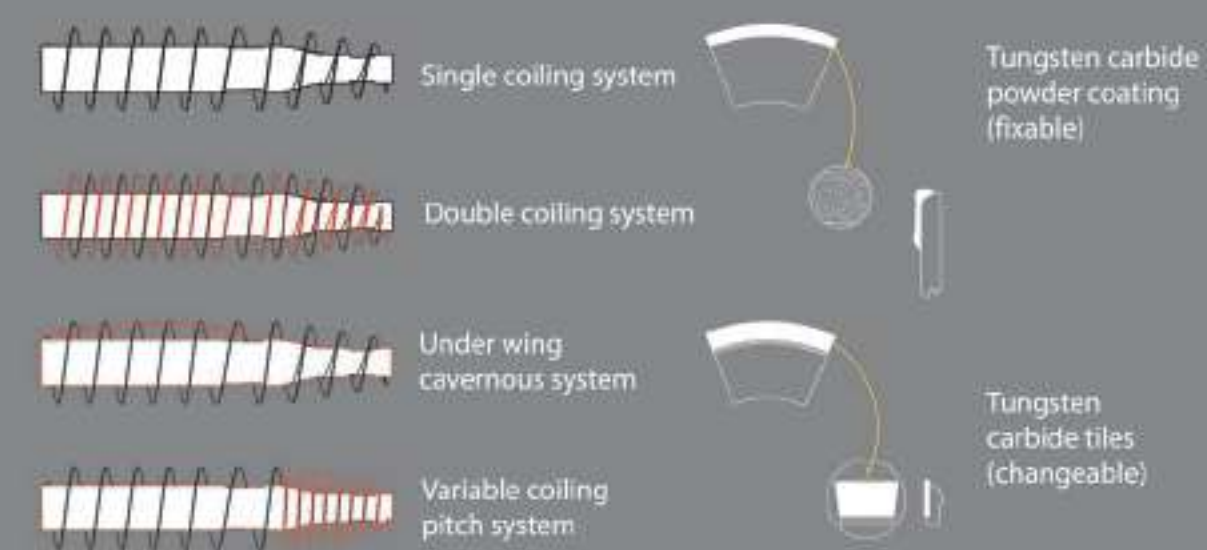
Turning Sections



Body

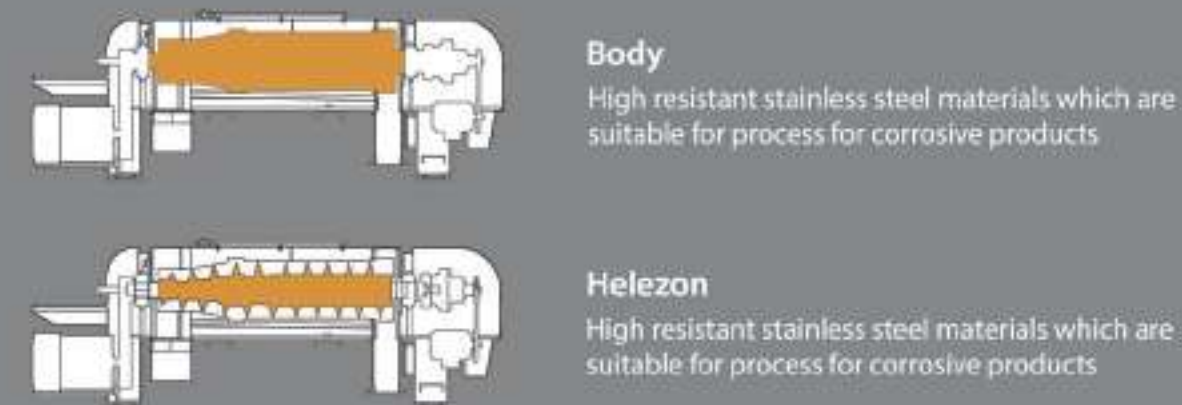


Helezon



Material

Moving Parts



Casing



Product Equipments

Mating Surfaces

Special applications for needs in different processes

Impermeability

High protection against corrosion
High resistance against chemicals

Field Applications

Erections

Secure area applications
Hazardous area applications (ATEX Zone 1 / ATEX Zone 2)

Project

Turn-key mobile units
Turn-key projects in field

Optional Features

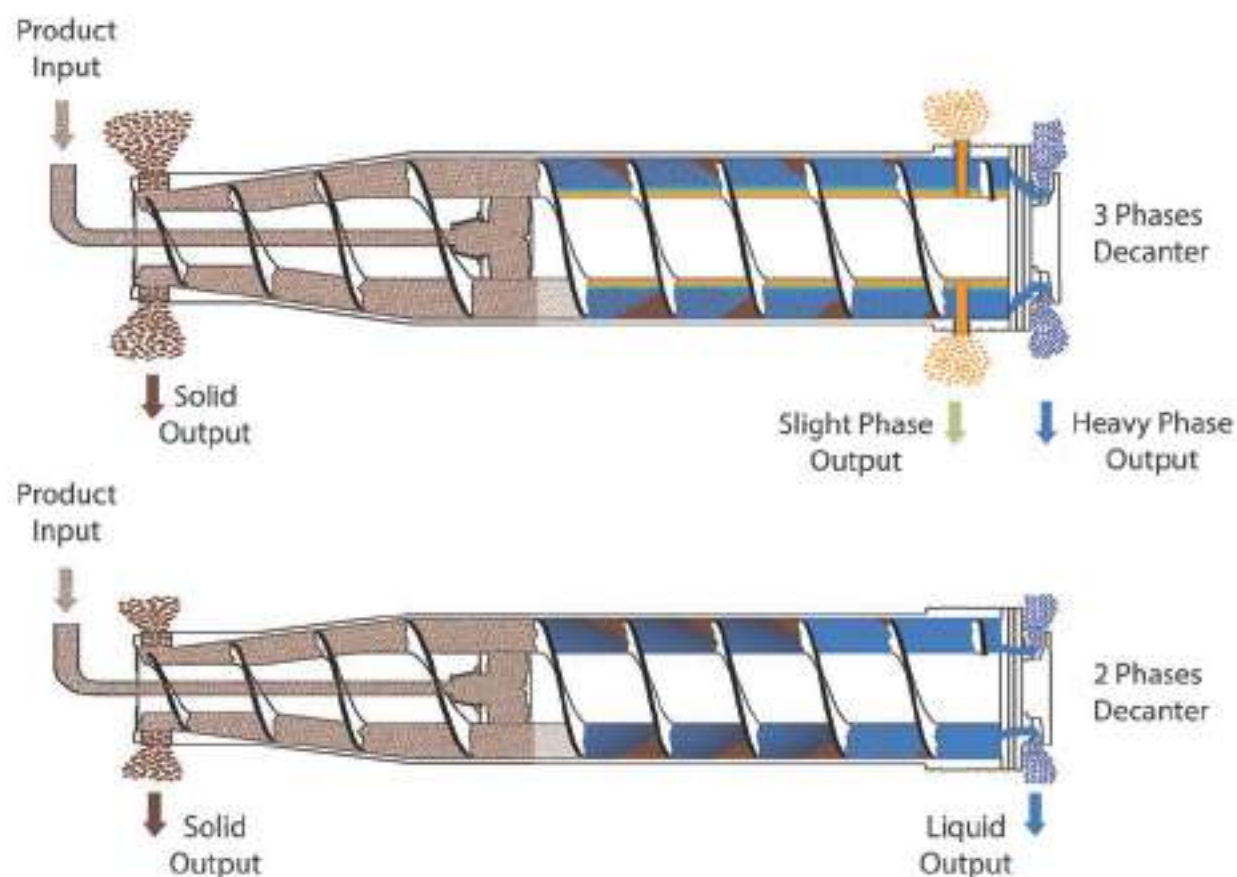
-  **Sampling**
Liquid sampling points in systems requiring regular back
-  **Manometer**
Dry working of pumps, cavitation and/or machine protection system in areas to be arose
-  **Splitter**
Particle breaking coming from decantor supplying line and machine protecting equipment
-  **Cyclone**
Removes gas, vapor and odor from liquid output
-  **Stripper**
Removes the solid safely from body in solid output area.
-  **Helezon and Strip**
Carries solid from decantor to stock or loading area.
-  **Control Panel**
Optimum monitoring machine, security equipments and other auxiliary equipments and working opportunity
-  **SCADA**
Central controlling and data collecting system adaptation
-  **Cleaning**
Cleaning with output liquid as alternative, as well as clean water
-  **Gatevalve**
Provides protection for output solid material and equipment from water in decantor clearing area
-  **Transmission**
Max efficiency with different transmission types at same size, torque provision
-  **UPS**
To stop our machine safely in case of sudden power cut by cleaning
-  **Homogenizing**
Prevents breaking stable flow to arise from mixture of different products and fast precipitation
-  **Exproof**
In environments which explosive and/or flammable powder and gas exists, protecting against exploitation and combustion
-  **Supply Pump**
Product supply with variable flow rate with speed control
-  **Polymer Preparing Unit**
Enables chemicals required for process to be prepared and dosed
-  **Contact**
Monitoring your decantor's performance with mobile equipments, and intervention when necessary
-  **Oiling**
Automated grease oiling and frigorific closed oil-bath design as well as manual oiling system
-  **Replaceable**
Thanks to changeable structures of possible corrosion areas, minimum maintenance cost
-  **Container System**
Portability for working in different locations
-  **Flowmeter**
Product tracking and capacity monitoring, observing total processed amount



Product Input and Solid & Liquid Output



Our **S series** centrifuge decanters serve in environment, mine, food, industrial fields. They are designed as double engine driving system and VFD. Thanks to differential rate adjustment and adjustable pool depth at optimum point depending on the product, maximum efficiency is provided.



Model	Ø Body (mm)	L/D	Maximum Body Cycle (rpm)	Main Motor (KW)	Helixon Engine (KW)	Driver System	Measures (mm)	Weight (kg)
S200	200	4,23	Max. 5500	5,5	2,2	VFD	555*2000*680	500
S300	300	4,18	Max. 4500	15 - 18,5	4	VFD	850*2700*995	1160
S350	350	4,28	Max. 4200	22 - 30	5,5	VFD	1068*3250*1100	1850
S430	430	4,27	Max. 3500	37 - 45	7,5	VFD	1340*3890*1350	3500
S470	470	4,20	Max. 3300	45 - 55	7,5	VFD	1340*4070*1450	4700
S530	530	4,20	Max. 3000	55 - 75	11	VFD	1483*4690*1594	5475
S570	570	4,22	Max. 2800	75 - 90	11 - 15	VFD	1550*4970*1685	6250
S670	670	4,07	Max. 2300	90 - 110	22	VFD	1880*6190*1965	10980
S770	770	4,23	Max. 2100	132 - 200	37	VFD	2050*6965*2144	14980

* Measurements may vary depending on configuration.

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.



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