POLAT life

POLAT GROUP HOLDING

Issue 17 **JULY-AUGUST-SEPTEMBER** 2022 | Free

— **POLAT MAKINA IS AT YOUR DISPOSAL WITH** YOU IN YOUR SUSTAINABILITY PROJECTS

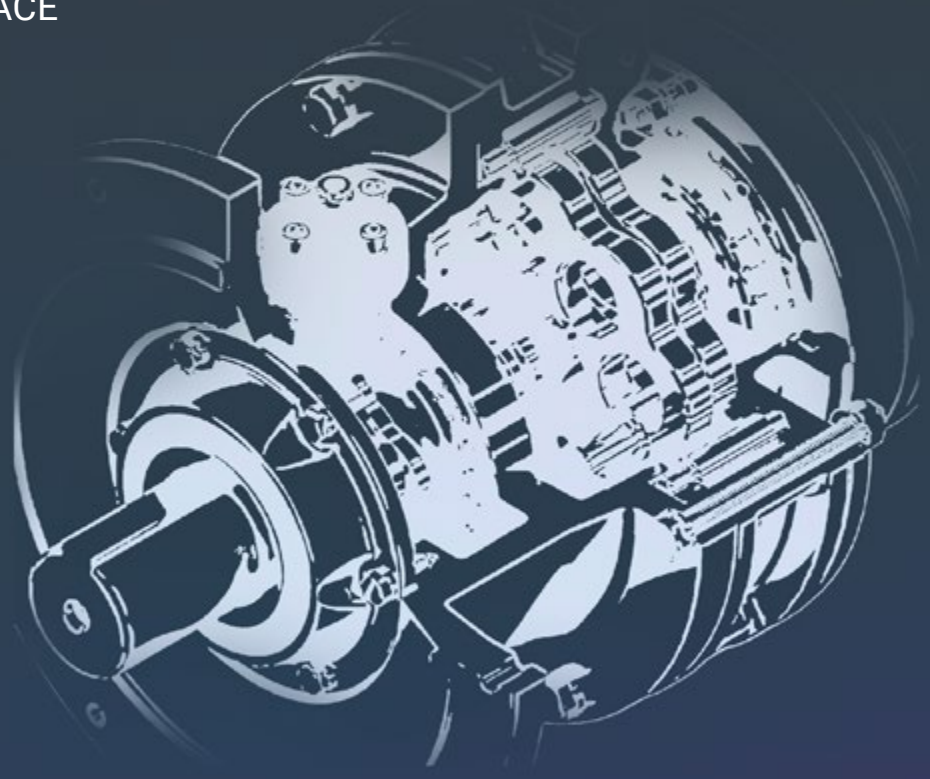
OUR INVENTORS — LEADING THE WORLD

— **PGR PRODUCTS ARE NOW** IN TRACEPARTS

PGR OVERSEAS SALES TEAM — GREAT TEAMS ACHIEVE GREAT THINGS

— **RIGHT TIME, RIGHT PRODUCT,** RIGHT PLACE

Necati AKOĞUL



Our New Product
“Cycloid Gearbox”

Became one of the 21 projects supported under the Industry and Technology Move Program

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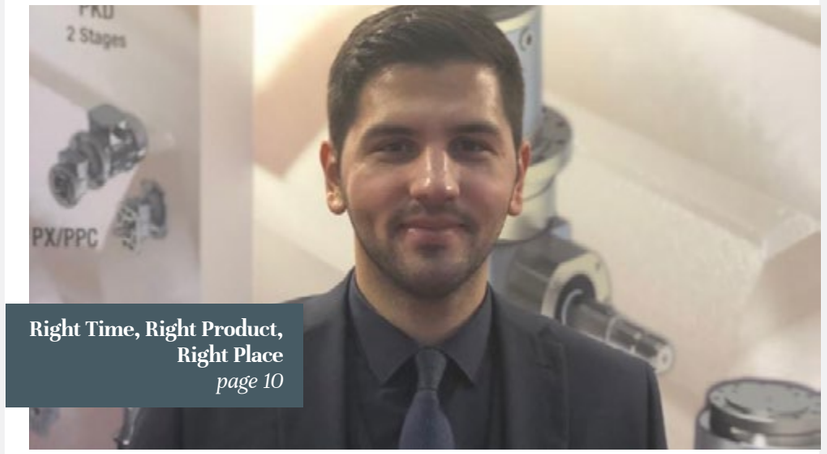

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From Editor

Dear Readers,

There must be something that expresses you in the "work" you do.

This quote was the introductory sentence of a book I read; this issue of our magazine was shaped precisely in accordance with these quote.

In this issue;

Since the available resources are limited and human needs are unlimited, we have tried to draw your attention to what "recycling" adds to our lives, which we feel more and more important every day, both in our personal lifes and in our behaviors in our working life. At the same time, we pointed out that being a team is our guide to success, which makes our business life easier by emphasizing the importance of being a team, and teamwork. In our magazine; we think that you will curiously read the interviews we conducted with companies we act together in our work, as well as our colleagues to get to know them and their works better. In this issue, we have also included many current topics that we think you will find interesting. While presenting a small section of the values that the Turks add to the world, we have compiled the interesting and absolutely must know features of our province of Aydın. See you in the next issues that we prepare with the idea that success is to perform an action of which result is thought to be beneficial and to overcome a job.

Gülçin Çiçek
Corporate Communications Specialist
Polat Group Holding

Polat Drive Technologies Received Support Within The Scope Of Technology-Oriented Industrial Movement Program.

With the realization of this project, we will be **one of the few countries producing cycloid gearboxes in the world.**

The new product of Polat Drive Technologies A.Ş. has become one of the 21 projects supported by the Ministry of Industry and Technology within the scope of the Industry and Technology Movement Program.

The new product of Polat Drive Technologies A.Ş., one of the few gearbox companies in Turkey with more than 20 years of experience and rapidly growing and making a name for itself, has become one of the 21 projects supported by the Ministry of Industry and Technology within the scope of the Industry and Technology Movement Program.

Polat Drive Technologies, a subsidiary of Polat Group Holding in Aydın, will reduce foreign dependency by producing cycloid gearboxes that are needed by the machine manufacturing sector and not produced domestically on an industrial scale with the "Cycloid Gearbox" production project, especially precision bench auxiliary equipment such as high-tech robots, CNC benches, autonomous vehicles, additive manufacturing equipment, centrifugal separation systems, and spindle-positioner.

With the realization of this project, we will be one of the few countries producing cycloid gearboxes in the world. Contribution will be made to the nationalization and domestication of technology. The ease of access to cycloid gearboxes with domestic production will also increase the quality of the products produced by the machinery industry that can use this gearbox in our country.

With the production of cycloid gearboxes, it is aimed to contribute to the installation of high efficiency and long-lasting machine systems resistant to excessive loads. Cycloid Gearboxes provide shock-resistant, wear-resistant and vibration-free operation with their special structure in the form of discs. In addition, due to its compact structure, they can achieve large conversion rates in smaller volumes and have high efficiency.

With the production of the cycloid gearbox in Turkey, imports from overseas countries will decrease. With the advantage of location, our country will be a supplier for the markets in the nearby geography such as; Europe, Africa, Russia and Middle East.

News From Us

We gathered at our traditional iftar dinner.

We came together at the traditional iftar dinner to experience the sharing spirit of Ramadan together and to share the feelings of unity and solidarity. At this meaningful dinner, where our managers and employees were together, we had the peace of mind to be together.

Polat Group met with the students at Science Festival.

At the Science Festival organized by Aydın High Technology College, we gave information to young people about our production technologies and R&D activities.

At the Science Festival held on Thursday, June 15 at Aydın High Technology College, we opened a booth with the participation of our engineers working in the R&D departments of Polat Makina and PGR companies. High school students received information from our engineers about our R&D studies and products. Hakan Özcan, Efeler District Director of National Education also attended the event, which took place with the participation of many companies operating in Aydın, and visited the booths of the companies.

Roadmap to Success

Strategic Planning Training was given to our whole group company employees by Selçuk KARAATA, our Strategic Planning Consultant, in order to provide general information about strategic planning and to increase the level of awareness.

Right Time, Right Product and Right Place

Hello Mr. Necati, first of all, can we get to know you? You have been working in our PGR company for many years, how have your duties developed and changed during your working life?

Hello, I am Necati Akoğul, I was born in 1991 in Mainz, Germany. I'm married with one child. I started my education life in Germany and completed it at Ege University. In addition, I passed the Industriekaufmann (Marketing in the Industry Branch) exam at the German Chamber of Industry and Commerce between 2020 and 2021 and received the title. I joined the PGR family in September 2013 and worked as a Marketing and Sales Consultant in our factory in Aydın for a year. Subsequently, our company PGR GmbH was established in Germany and I was there when the works of our assembly factory started in September 2014. In other words, I moved from Aydın to Ahlen for the establishment and continuity of PGR GmbH. This has been a wonderful experience for me. For this, I would like to thank Mr. Olcay and Mr. Necdet for their support and opportunities they gave. Since 2014, my role has changed as European Marketing and Sales consultant.

Were you in our company when PGR GMBH was founded?

Yes, I was working for PGR when the works started for PGR GmbH,. It was my first working day in September 2014. For me, of course, an exciting period started and I had to establish a new order in Germany in about 2-3 months.

When you look at our production and sales capacity in the first years, how would you evaluate the development of PGR?

We are not an ordinary gearbox company, I understood this very well over time. When I look at the investments made since 2013 and our expanding machine park, I can see very clearly where we come from and how we develop. With the new machines we purchased, we are growing more and more as time goes by. I saw that the three gearbox companies I visited in Germany did not have a modern production area and assembly area like ours. When I compare our company since 2013 and to other companies, I can realize that there is a significant growth.

When we check from our relevant data, we see that the numbers of units produced and shipped has been increasing year by year. I would also like to add that 6 new series have been added to our product range since 2013. I'm sure that this increased our value in the market.

What do you think are the advantages of our assembly factory in Germany? What are the differences when you compare European sales processes with Turkey?

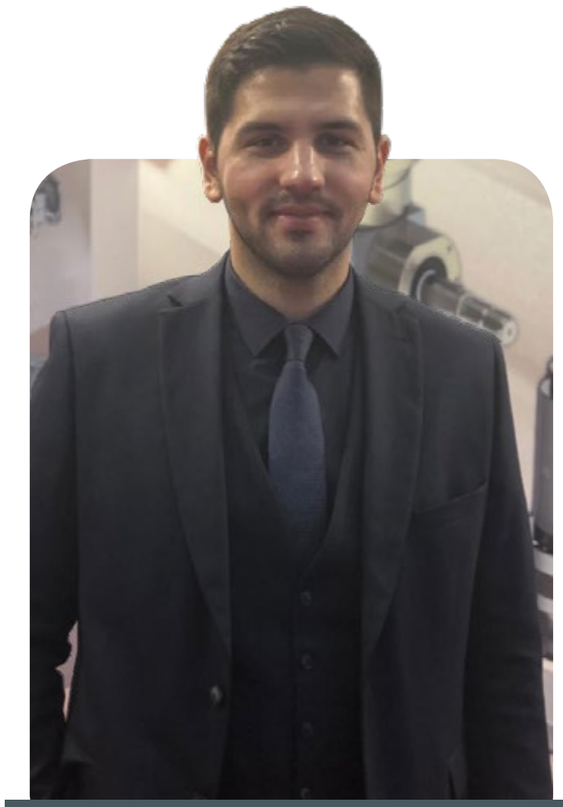
We immediately understood that we had a great advantage due to the German structuring. When I made my first customer visits, I realized that we made the right decision as PGR. I had the impression that our customers in Europe were hesitant about customs clearance.
Since we, as PGR GmbH, have taken this burden from our customers, their perspectives and approaches to us have changed. In addition, we find the opportunity to store our customers' orders in Ahlen on request and we can ship them to our customers within 24 hours. Since we realize this situation, we are ahead of other companies.
I was also looking at the foreign market during the working process in Turkey, but although we are close to Europe as a country, customers still demand on-site visits. Since I have been working for PGR GmbH, we have been able to realize the chance to discuss our customers' projects and demands on their own premises, and finalize the quote and order process much faster.

How would you assess PGR products in the European market?

The feedback I receive from our customers is very good, the quality of our products is the same as European quality. This makes us different from other companies as we have a wide range of products and address different sectors. Sometimes when I tell our customers about the variety of our series, I realize that they listen with astonishment.
At the same time, our rapid feedback to our customers puts us in a different position than other companies.

Do you participate in other events besides fairs? Can we talk a little bit about PGR's future plans and goals in Europe?

Apart from our fairs, I attend the seminars given by the Chamber of Industry and Commerce. We take firm steps by determining our PGR targets with Mr. Olcay and Mr. Necdet in a planned manner. For now, let me answer That's all I can say regarding your question for now. There will be good developments in Europe, let's watch and see together.



Necati AKOĞUL
European Marketing and Sales Consultant
PGR GMBH

Thank you Mr. Necati, do you have anything to share with our readers?

I would like to thank you for including me and PGR GmbH in this issue of our magazine and present my regards.

Interview
Gülçin Çiçek
Corporate Communications Specialist
Polat Group Holding

> "Coming together is a beginning, staying together is progress, and working together is success"
>
> Henry Ford

A Good Song Consists of Many Different Notes

To be a team and even more than that, to become a family. Meet our Polat Drive Technologies Overseas Sales Team.

The world is changing and we are constantly trying to renew ourself and adapt to new organizational and technological conditions in order to keep up with this change. Sometimes circumstances make it impossible for us to do a job on our own. Therefore, we do our work not only in line with the incoming directives, but also aiming for success as a team as well as displaying our individual talents. So, what is teamwork that we hear about all the time and why is it important?

In teamwork, the people who make up the team act with a united spirit in which the concept of us gains meaning by staying outside the concept of me.

The understanding of incorporating mostly all levels into the opinion and decision-making processes dominated by the central structures brings people, systems, processes and structure together to success with a collective approach towards becoming an effective and efficient structure for the enterprise. In order for us to talk about teamwork in the success of an organization, it is important that the communication within the team is open and that all employees can freely express their opinions, feelings and thoughts on the subject.

Why Are We a Team?

Family and team culture has a very important place within PGR and Polat Group. With an effective team, your value generation process becomes even shorter and improved. This value creation process can be found in different areas such as the purpose of a sports team, the communication a company will establish with the customer, and the production strategies of a factory. It is inevitable that you will be creative in an environment where there are different voices within the team, almost every idea is discussed, decided, and at the same time, the opinions of the people within the team are taken into consideration and carefully assessed.

GREAT TEAMS

Anastasia İrem KUZNETSOVA

I graduated from St. Petersburg State University of Economics,I have been working in the Sales and Marketing department with in PGR since 2013.PGR first entered the global market in 2012. With the advantages of my Russian origin, we realized our first sales in the Russian market in 2013 as a result of our efforts. While we started this adventure with a single sales manager for Russia and other Russian-speaking countries, we now have a team of 5 people looking after this market only.As a Turkish brand, we have taken a solid place in the Russian market. We aim to increase our sales in this region by 45% this year. We continue to work with enthusiasm every day in order to serve a larger audience in theRussian region in the best possible way.

Tahsin BİLGİ

I graduated from Selçuk University, Department of Russian Language and Literature. Since 2017, I have been working in the Sales and Marketing department within PGR. Together with the team I work with, we sell to Azerbaijan, Kazakhstan, Uzbekistan, Georgia, Moldova and Romania as well as the Russian market. We are active in the expansion of these markets. In this direction, we established a representative office in Azerbaijan. We serve in many sectors in these markets, and the most demanded systems are Agriculture, Crane, Silo, Concrete plants, Forest products machines and Conveyor systems. We are working together to increase the market share of our Turkish brand in the world.

Halima ZANTUR

Since 2017, I have been working in the Sales and Marketing department within PGR. I was born in Morocco. I am responsible for our sales in Arabic and French speaking countries. During the time ı worked at PGR, an assembly center was opened for our existing dealer in Tunisia, our dealer was established in Egypt, and we are still trying to establish an assembly center for our dealer in Erbil, Iraq. Our goal is to serve a wider audience in the French market.

Anastasiia İSAKOVA

I graduated from Moscow University with a degree in Finance and Economics and moved to Turkey in 2014, which I now consider as my second homeland. I am very happy to do business with the country where I was born within the PGR and to be able to play a role in strengthening the bond between these two countries.

Looking at the global market, our sales to Russia and other Russian-speaking countries are at the top. We see much greater potential in these areas. For this reason, PGR plans to settle in the south of Russia in order to provide on-site, faster service to the prospective Russian market.

ACHIEVE GREAT

Malek BEN DHIEF

I was born in 1995 in Tunisia. I graduated from the Faculty of Literature, Arts and Humanities, with a degree in English Literature in Manouba. I am fluent in Arabic, French, English and Turkish. I use my language skill effectively to increase our brand's share in the global market. I am responsible for our sales in East Africa and France within PGR. My goal is to grow our company's currentmarket share and support us to add new customers to our customer portfolio

Ahmet KAHRAMAN

I graduated from Akdeniz University, Department of Electrical and Electronics Engineering. I work as a Sales Engineer within the body of PGR and I'm doing my master's degree in Adnan Menderes University Faculty of Business Administration in addition to my working life. I am responsible for sales in European countries with my team in PGR. I am particularly dealing with order requests in Italy. In this market, where our sales grow constantly every year, PGR aims to make serious investments in Italy in order to reach an even bigger audience in the future.

Ezgi KESKİN

With the advantage of being born, growing and completing my education life in Germany, I am responsible for sales in the German market as an Overseas Sales Supervisor within PGR. We cooperate with important companies operating in machinery manufacturing sectors in Germany. Apart from this, we make a large proportion of the sales through our PGR GmbH factory in Germany.

Our company PGR GmbH was opened in 2014 in Ahlen, Nordrhein-Westfalen, Germany. Our factory, which has a production area of 5,800 m2, delivers our products to our customers in Europe faster and provides after-sales support on site. With the support we receive within the scope of Turquality, we plan serious investments in this market with the aim of bringing our brand to even more important positions.

Nazım YÜKSEL

I'm Nazım Yüksel. I graduated from Bahçeşehir University with a degree of Political Sciences. I have been working as an overseas sales officer within PGR for about 1.5 years. I'm dealing with our dealers in Spain, Tercesa and Harry Walker. In addition, we have added our new customers to our portfolio in Slovakia, Serbia, Scotland, Bosnia, Italy and Vietnam in the last year. Tercesa is a dealer who especially buys kits. Our dealer stated that they started working with three new customers. Therefore, they have placed much more orders this year than last year. Harry Walker, on the other hand, is a dealer who usually works on a tender basis and currently has several tenders and our work continues. We also have orders from our new customers in Italy and Bosnia this year, and we have offers that I expect our customers in Slovakia to turn them into orders. With the increasing orders of our new customers and dealers, I believe that this year's targets will be achieved in a very short time and sales will be much higher than last year.

Atiyeh ASAAD

In Iran which is my homeland, I first completed my undergraduate degree in English Literature at Tabriz University and then my master's degree in English Teaching at Iranian University of Science and Technology.

I always believed that combining English language skills with a business area would be great. Because I think that language knowledge opens endless doors and offers many new information opportunities. I have been continuing my knowledge and experience in the machinery sector for a total of 7 years by adding new information within PGR since 2019.

Our company exports to more than 80 countries and all over the world on 5 continents and takes the quality of its products to high levels day by day. It is a real honor to be part of the PGR family and work with important customers from all over the world in regions such as Europe, America, Canada and Iran. At PGR, we work together at an intensive pace to realize our company goals. With the joy of being the first gearbox manufacturer to receive support within the scope of Turquality, we are planning serious investments to promote the name of our Turkish brand in the target countries determined by the company. Denmark where I am in charge of sales is among these target markets.

THINGS!

Selin TUNA

I was born in 1992 in Aydın, I completed my education in Electrical and Electronics Engineering in 2014. I joined the Polat Group family in 2015. During my tenure in Polat Group, I was responsible of the European region, especially the Italian market. In PGR, the sales system is divided into two as Domestic and Overseas Sales Directorate under the PGR Sales Directorate. We have a team of 40 people working under the Sales Directorate. As the Overseas Sales Team, we serve abroad with a total of 13 people, 4 of whom are engineers. Although we have dealers in many countries, especially Germany, Italy, Russia, Tunisia, Latvia, Poland, Denmark, Israel, Spain, we have new dealers and end users whose number is increasing. We have strengthened our awareness in Europe with many fairs, events and customer visits that we participated in before the pandemic. In the Italian market I am responsible for, we have achieved a growth rate of approximately 125% and 35% as Overseas Sales in the last two years. In addition, in our next five-year plans, there are investment plans in important gearbox markets such as Germany, Italy, Denmark, Poland and Austria.

Mustafa AYRIK

I have achieved my dream job by joining the Polat Drive Technologies family in 2017 and started as a sales manager for the Middle East and North Africa. I completed my education life by completing Lathe and Levelling Technician in Latakia, the Syrian province where I was born and grew up.

I have come to this day with the pride of realizing my part of the sales targets set by the company in my sales task, which I am happy to work for. In addition to my current duty, I ensure the follow-up of the fair organizations that I have just undertaken. During the Covid-19 pandemic, all fairs were postponed or canceled. These days, with the decrease in the effects of the pandemic, we continue our fair participation from where we left off. We aim to participate in many international fairs in 2022 and we will be back with our customers in these beautiful and prestigious organizations. Do not give up on your dreams and goals just as I have pursued my dreams. Best regards.

Burak BURAN

I graduated from Izmir University of Economics, Department of Electrical and Electronics Engineering with a full scholarship and 100% English education, and I also have German education. I work as an overseas sales engineer within our company and I am also actively pursuing master's degree in the same department at Adnan Menderes University. My main area of responsibility within PGR is the customers in the European region. I am responsible for Poland, which is one of the 5 target countries within the scope of Turquality. We realize a significant proportion of our sales in this region through our Tormec dealer in Poland. We are expanding our target market in the Polish region and working to increase our sales in this region, and we are also developing new projects to become a more effective player in this market. The lifting sector is also one of my fields of work, we have customers from all over the world in this sector and we have ongoing efforts to develop the market of these product groups.

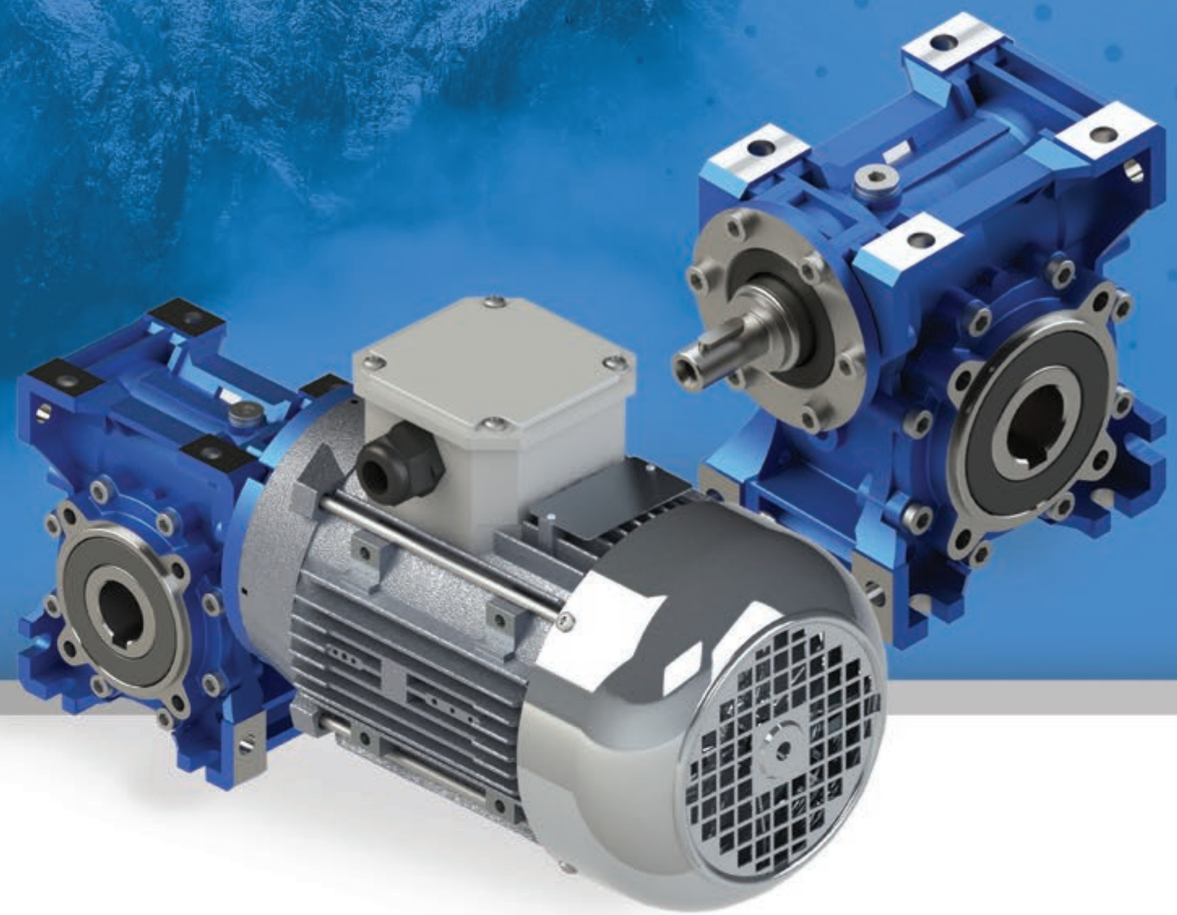
Hüseyin ALİKOÇ

I was born in Istanbul. I graduated from Anadolu University, Department of Economics in English. I work as Polat Drive Technologies overseas sales manager. Austria, one of the countries I am responsible for, is a target country agreed by the company within the scope of Turquality. As PGR, our primary objectives are to increase our market share in the global market with our competitive and strong quality policy, to be one of the pioneers of the sector that makes a difference and to keep customer satisfaction at the highest level. In this direction, we continue to search for dealers in Austria. We are planning significant investments in this region in order to increase the recognition of our forward-looking brand. Thanks to the structure we plan here, we aim to significantly increase our market share in Europe.

NRW®
DRIVE TECHNOLOGIES

PMRVPLUS / PRVPLUS Series
Worm Gearboxes

HIGH STRENGTH AND AESTHETICS *Come Together*



Worm gear drive systems, which are offered for drive systems with low moments and regular loads, stand out with their silent operation as well as their lightweight, high-strength, modern design housings.

Everything is for a Wonderful World

Recycling is the inclusion of wastes that can be reused in the production process by going through a number of processes.

Reuse of wastes thanks to recycling increases energy saving. Recycling is the only way to prevent the depletion of resources and reduce the amount of waste. Polat Group works to give back to the Earth and nature by reducing its emission day by day with its respect for nature and the environment.

What's A Water Footprint?

It is an "undeniable" fact that water is an indispensable part of our lives. However, this is not only because it is a basic substance that should be consumed (2 liters per day) or used for hygiene purposes in order to sustain our lives.

From your computer where you read this article, to the coffee you sip (as well as the water used to brew the coffee), water is used in the production or cultivation of every product we use and consume in. When we add the amount of water used in the production and cultivation of the products we use to the amount of water we use daily, our water footprint emerges.

The water footprint consists of 3 components: blue water footprint, green water footprint and grey water footprint. While the blue water footprint represents the surface and underground freshwater used in the production or cultivation of the product, the green water footprint represents the rainwater used and the gray water footprint represents the amount of fresh water contaminated during the production and cultivation process. For example, while the amount of water required to be consumed to obtain a kilo of beef is approximately 15,400 liters, 94% of this water is green, 4% is blue and 2% is gray water.

In the average of the data collected between 1996 and 2005, it was determined that the annual water consumption, that is, the annual water footprint of the world, was 9,087 Gigameters3 (1 Gm3 = 1,000,000,000,000,000,000,000 m3). 74% of this amount of water spent is green, 11% is blue and 15% is gray water footprint. Agricultural production constitutes 92% of this huge pie.

Considering the change in consumption habits and population since then, it is not difficult to infer that the annual water footprint of our world has increased considerably. To support this thesis, we can present the information that the amount of water required for the production of each of the chips, which is the backbone of technological tools, is approximately 8,300 liters.

Virtual Water

We said that the water footprint is a concept that covers both the water we use directly in our daily lives and the water used in the production of the products we use but which we do not see as the end user. This water consumption, which is not seen by the end user, is called "Virtual Water". The concept of virtual water covers the water used during all production stages of a product. For example, if we consider coffee: While the amount of virtual water used in the process from the beginning of the cultivation of the coffee plant to the end consumer preparing a cup of coffee is about 140 liters, the direct use of water used throughout this process is only one cup (about 250ml).

Tony Allan, the inventor of the "virtual water" concept; wondered why the war or civil unrest, which was expected to break out due to water shortage in the Middle East, did not occur and he started research on this subject. As a result of his research, he discovered that despite the water scarcity of the countries in this region, they could survive with the large-scale food trades they made. In the light of this discovery, he realized that these countries import not only these products, but also the water used during the production of these products, and he coined the concept of virtual water.

Virtual water is included in trade not only in countries with water scarcity but also in all international trade. It was calculated that the average annual virtual water mobility during the trade of industrial and agricultural products between 1996-2005 was 2,320 Gm3. 68% of this virtual water is green, 13% is blue and 19% is gray water footprint. Although virtual water mobility is essential especially for countries experiencing or in danger of experiencing water scarcity, the figures between 1996-2005 show that most of the water footprint caused by water mobility consists of blue and gray water footprints. In other words, with the international virtual water trade, surface and groundwater resources are both used more and polluted more.

What to do?

As our water resources gradually decrease, we will face the danger of both production problems and drinking water scarcity very soon because we are growing our water footprint together. Since it is obvious that international trade or the production of electronic goods cannot be stopped, it seems that there is not much to be done to reduce our water footprint, but it is possible to reduce the world's water footprint to a certain extent with the measures to be taken at the production stage and on an individual scale.

The measures that can be taken on an individual basis are quite simple. First of all, it is essential to have sensitivity about water saving. We also need to shop only as much as necessary, avoiding the consumerism. To give an example to show how much difference this can make, the water spent on the production of a t-shirt is approximately 2,720 liters (54% green, 33% blue, 13% gray water footprint), and the water spent on the production of a pair of jeans is 10,850 liters (45% green, 41% blue, 14% gray).

Treatment technologies are at the forefront of the measures that can be taken during the production phase. By the use of purified water and sludge cake, obtained by dewatering the wastewater generated during the production phase, in different areas, sustainability can be achieved. Purified water can be used in irrigation. The obtained sludge cake can be burned after processing to obtain biogas. In addition, the ashes formed as a result of incineration can be used in the chemical industry.

Uğurkan Bozkurt
Marketing Assistant Specialist

Polat Makina Is at Your Disposal with Your Sustainability Projects

We are at your disposal in your Sustainability Projects with our Eco-Friendly Equipment.

Increasing population and demand for consumption, which is growing many times faster than the population, is consuming resources in the world quite quickly. According to Earth Overshoot Day, which is calculated every year by the World Footprint Network, we had used up all the resources that the world could produce for us until July 29. In other words, the resources we consumed in the remaining 5 months were borrowed from the future. In line with the calculations made on the basis of countries and the question of when would Earth Overshoot Day be if the carbon footprint of the whole world was as large as this country, it was revealed that the country that finished the resources the latest was Jamaica and the country that finished the resources the earliest was Qatar. Qatar used up that year's resources on February 10th, while Jamaica could use the same resources until December 20th. In both cases, the result is that even the country, whose current consumption habits are at their best, cannot be satisfied with annual renewable resources.

For this reason, we need to assume reponsibility both individually and corporately in order for us and future generations to live in a better world.

As Polat Makina, we fulfill our part. We keep the carbon footprint we produce to a minimum thanks to maximum efficiency and minimum energy consumption in our production line. With the machines we produce, we offer our customers machines that produce zero carbon footprints.

In addition to the fact that the machines we produced produce zero carbon footprint while operating, we are also very sensitive about sustainability as a company. To give a few examples of how we reflect our sustainability sensitivity on the machines we produce:

- Thanks to the durability of our machines, there is less need for spare parts and machine renewal,

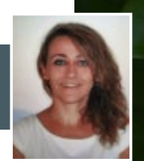
- To obtain more products with less energy consumption of our machines,

- We have machines that aim to recover valuable raw materials in wastewater,

- Our machines allow less polymer use during the process,

We can add many more items to our contribution to sustainability only with the machines we produce, but as a company, we put sustainability at the forefront not only in production but also in every field and everything we do.

Aysu Sağdıç
Brand And Marketing Manager



Polat Makina Offers Slop Oil And Bilge Water Solutions In The Field With Its Mobile Slop Oil Recovery System.

Polat Makina, which has been serving in industrial centrifugal technologies since 1978, continues to offer smart solutions with its New Mobile Slop Oil Recovery System designed for the treatment of slop oil and bilge water in the field.

The system, which is located in a 40 ft container designed for a European customer, includes all equipment that provides the necessary process for the recovery of precious oil from slop oil and bilge water and the treatment of substances that may harm the nature if left untreated. Both slop oil and bilge water consist of water, solids and valuable oils. With the Mobile Slop Oil Recovery System designed by Polat Makina; your process will not only be environmentally friendly; it will also help you save money by getting rid of the transportation costs of the product to be applied to the process thanks to the fact that the system is completely mobile and by recovering valuable oils.

The main equipment in the container is one three-phase decanter and two three-phase separators. In addition, there are control valves, stock tanks, heating elements, chemical dosing unit and pumps to ensure safe transfer of the product between the main equipment.

In addition, there are control equipment such as valves, heat sensors, pressure transmitters and flow measurements to ensure that the process is carried out safely. The PLC system in the container continuously monitors and automates the process.

How Does The Process Work?

The container in which the Mobile Slop Oil Recovery System is located is opened after reaching the area where the process will be carried out. After the air, water and electrical connections are made and the product inlet-outlet ducts are connected, the system is preheated. After this heating process, the product is transported to the first decanter through the pumps.

In the decanter, the product is divided into three phases. These are: Solid phase, heavy phase and light phase. Heavy phase containing a dense amount of water is sent to the first separator. In this separator, the oil is separated from the water. The obtained oil is sent to one stock tank and the obtained water to the other stock tank. Subsequently, the light phase containing a dense amount of oil is sent to the second separator. In this separator, the water is separated from the oil. Finally, the oil obtained in this process is sent to the stock tank containing the oil obtained from the first separator; the water obtained in this process is sent to the stock tank containing the water obtained from the first separator. The water and solid phase obtained as a result of the process are discharged of from the system to be disposed of with a different system.

In short, thanks to the Mobile Slop Oil Recovery System designed by Polat Makina, it is possible to treat the residual slop oil and to recover the valuable oils in it in the field, that is, to carry out the process without allocating space for this system in the factory.

Our Booths Are Now More Eco-Friendly

As Polat Makina, we reflect the sustainability we have adopted in every field to our booths that represent us.

As Polat Makina, we started to use glass booths in the fairs we participated abroad in 2022. Glass booths have many advantages over wooden booths in terms of sustainability. The wood used in commonly used wooden booths makes the recyclability of wooden booths impossible due to the fact that it is not a raw material that can be melted and reused like glass. In addition, due to the fact that almost all fairs have different booth requirements, it is unfortunately not possible to use the wooden booth used at one fair at another, which causes the wooden booths used after each fair to be trashed. The fact that the glass used in glass booths is a very easily recyclable material prevents the material used from being wasted even if the booth will not be used again and ensures sustainability.

Our goal is to leave a livable world. In addition, thanks to the modular structure of the glass booths, both the transportation and the construction of the booths are very easy. The double layer of glass used in the construction of the booth ensures that the booth is safe.

In addition to the many advantages of the modular glass panels used, the main reason why we prefer these booths is to ensure the sustainability we have adopted in every field as a company in our booths representing our company at fairs all over the world. In this way, we reflect to our guests who visit us at the fair how sensitive our company is about sustainability and take another step in our goal of leaving a more livable world for tomorrow.

Anuga FoodTec

It is the most important global trade fair for the international food and beverage industry. Anuga FoodTec, also known as the world's only supplier fair, covers all issues of food production.

26-29 April, 2022
Koelnmesse, Cologne, Germany

IFAT Munich:

IFAT, the world's leading fair among the fields of water, wastewater treatment, waste recycling, raw material management and environment, addresses many markets by following the innovations, resources and solutions in its sector.

30 May - 3 June, 2022
Messe Munich, Munich, Germany

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We have enriched CAD content in Engineering, Industrial Equipment and Machine Design from all corners of the world with PGR products.

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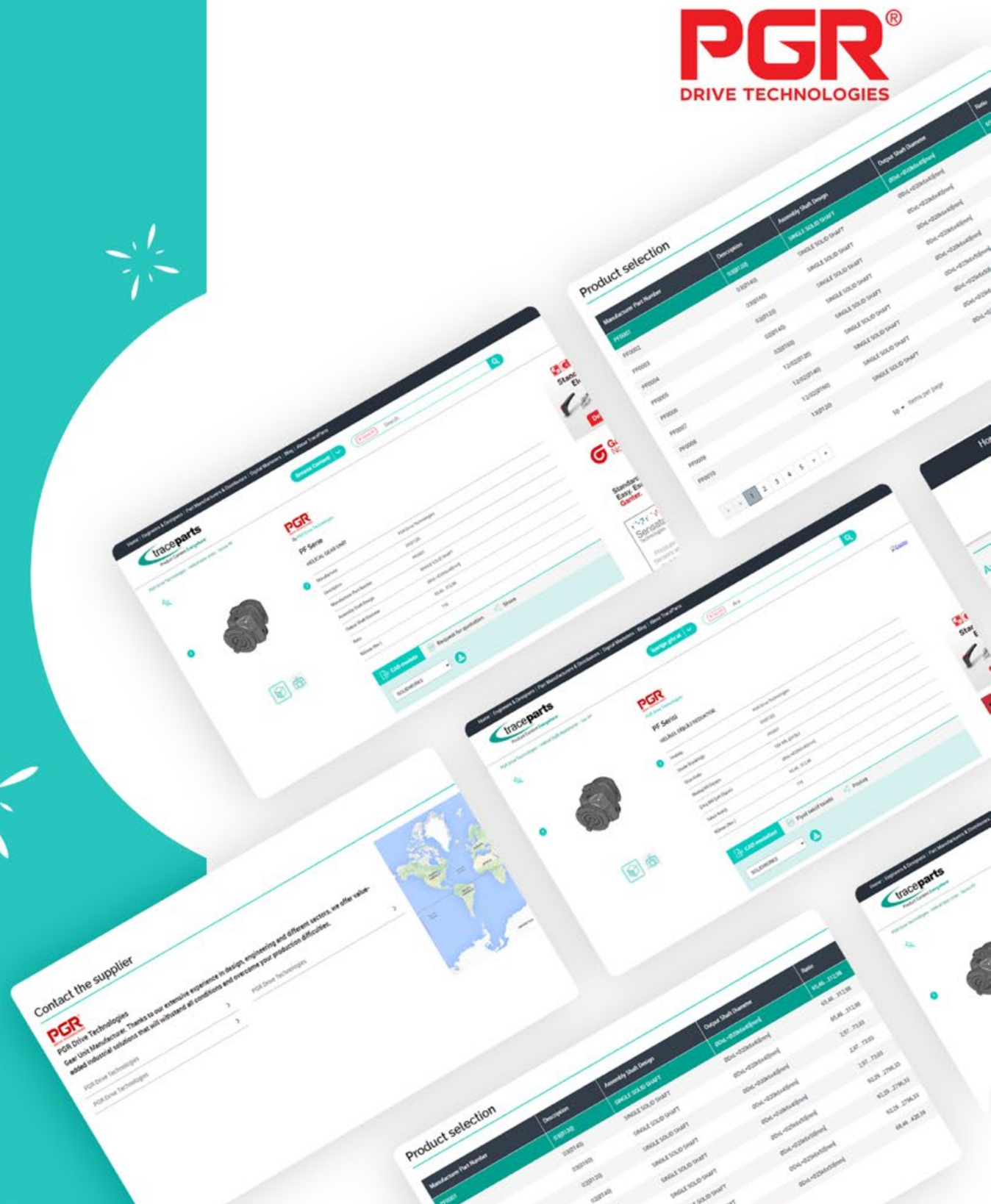

Polat Drive Technologies Took Its Place In Traceparts

Polat Drive Technologies Took Its Place In Traceparts

POLAT GROUP, one of the leading group companies of its sector and industrial companies in digital transformation, has become a member of TraceParts, the online content portal with the brand PGR. In addition to the configurator technology already available on the website, PGR has taken a very important step towards product modeling reaching a wider audience by being included in the world-famous international content platform. So designers and engineers can now easily access PGR products 24/7 from anywhere in the world.

With digitalization moving from being a fad to a basic necessity, the transforming industrial sector prefers original formats and digital data that are compatible with its own in-house CAD programs to incorporate into its designs and create its own up-to-date parts library. Engineers and machine designers provide their design inspiration with digital product information, so manufacturers and suppliers can easily access this information thanks to big data analytics. The information obtained provides very valuable sales and marketing data of users and target industrial companies. In addition, it is possible to easily get ahead of the competitors thanks to the designs supported by 3D CAD model and technical drawings, which are constantly updated for the satisfaction of existing customers, which is one of the most important issues.

Normsoft A.Ş., the official representative of TraceParts Turkey, as the first and only software company to undertake this important task in Turkey by supporting the content marketing and e-export of Turkish producers who are truly lacking in the field of digital marketing; carries out the training and support process in the country's own language (100% Turkish) and with 3 free training course and thus offers endless support to domestic & national solution partners.

About TraceParts

TraceParts is one of the world's leading CAD content platforms in engineering, industrial equipment and machine design with a total of 4,700,000 registered members from 1.2 million companies in more than 195 different countries.

TraceParts which gives millions of engineers and designers worldwide the chance to access over 1,500 supplier-approved product catalogues on the CAD content platform, provides access to billions of 2D technical drawings and 3D CAD models and product datasheets that perfectly meet digitalization needs in almost every industrial sector through design, purchasing, manufacturing & maintenance processes and operations.

Millions of engineers, designers and purchasers currently registered on the global TraceParts portal are offered the opportunity to review PGR products on the TraceParts website www.traceparts.com, download the relevant files in more than 70 formats such as AutoCAD, Solidworks, Inventor, Catia, Step, etc. and contact the sales team directly via the special order form.

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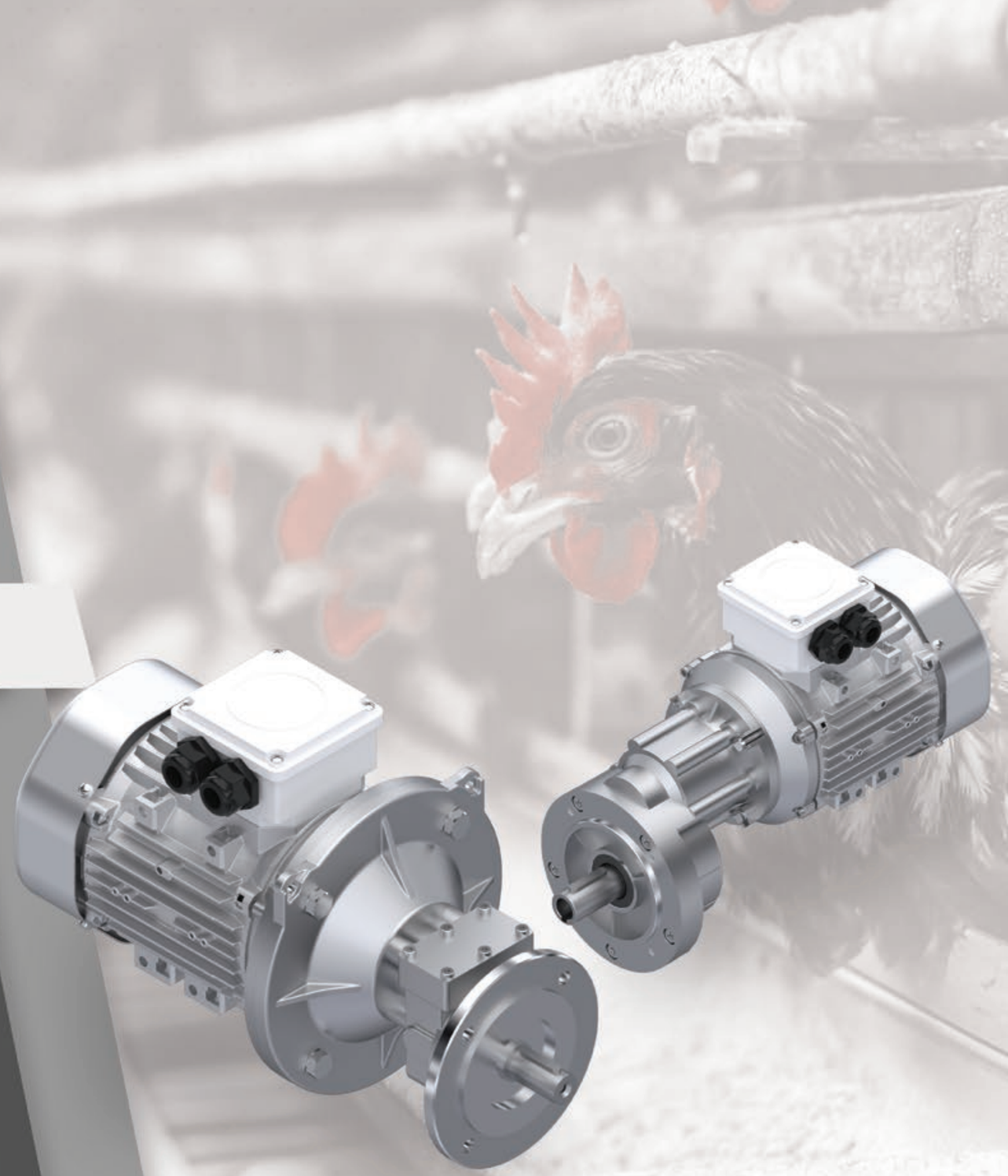

Customized Solutions For Your Needs

New Footprints in the Industry

Interzoo 2022

On 24-27 May, we participated in the Interzoo 2022 Fair in Nuremberg, Germany, which is one of the largest pet supplies fairs in the world.

We promoted our products at a pleasant fair attended by one of our group companies, PG Kimya's brands Olivacat and VetNaCare. At the Interzoo Fair, which lasted for 4 days, we had the opportunity to meet with the relevant industry leaders and introduce our products to the world market.

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Cat Litter made from Olive Seed

It does not contain artificial fragrances, synthetic chemicals, dyes and genetically modified organisms (GMOs).
It also prevents the formation of bacteria and parasites in the litter box.

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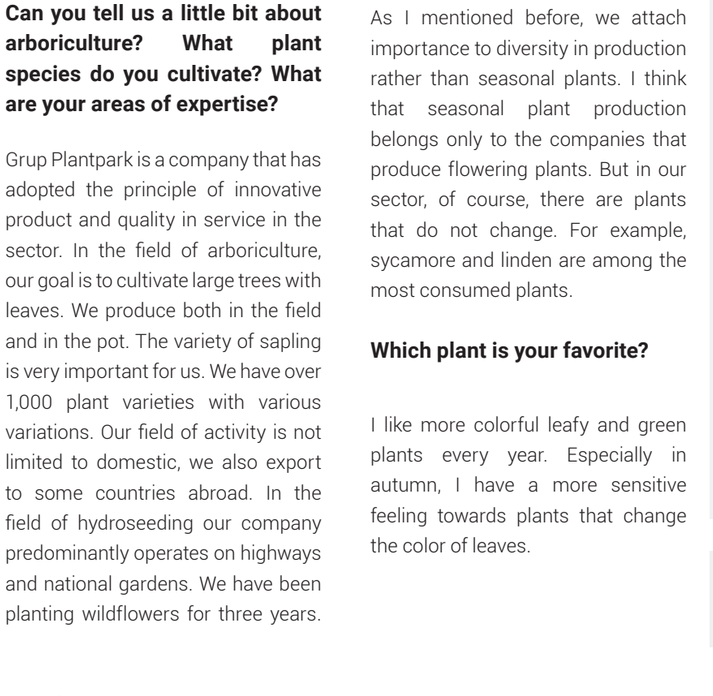
Hakan Tanrıverdi

Grup Plantpark Bilişim Fidancılık ve Reklam Hiz. San. Tic. Ltd. Şti.

We had a chat with Hakan Tanrıverdi, the Founder of Group Plantpark Bilişim Fidancılık, about crepe myrtle arboriculture.

Hello, first of all, we would like to get to know you and your company better. Can you briefly tell us about yourself and your company?

Hi, I'm Hakan TANRIVERDİ. I graduated from Atatürk University, Department of Landscape Architecture in 1995. After working in the food sector for a short time, I worked for 10 years at Istanbul Metropolitan Municipality Istanbul Ağaç ve Peyzaj A.Ş.in various positions. Later, I worked as a general manager in the private sector for 10 years. After my experience as general manager, in 2015, I founded the company of Grup Plantpark Bilişim Fidancılık Ve Reklam . Hiz. San. Tic. Ltd. Şti. Grup Plantpark works in the field of outdoor ornamental plant production. We have reflected and continue to reflect our 20 years of experience. Later, we merged with our group company KRD Tohumlama Teknolojileri. This company is interested in hydroseeding technologies. When we saw the gap in the plant feeding area that our sector needed, we continued on our way by incorporating the production of organomineral fertilizer.



How long have you been operating in this sector?

Since 2015, we operate as Grup Plantpark Bilişim Fidancılık ve Reklam Hiz. San. Tic. Ltd. Şti.

Can you tell us a little bit about arboriculture? What plant species do you cultivate? What are your areas of expertise?

Grup Plantpark is a company that has adopted the principle of innovative product and quality in service in the sector. In the field of arboriculture, our goal is to cultivate large trees with leaves. We produce both in the field and in the pot. The variety of sapling is very important for us. We have over 1,000 plant varieties with various variations. Our field of activity is not limited to domestic, we also export to some countries abroad. In the field of hydroseeding our company predominantly operates on highways and national gardens. We have been planting wildflowers for three years. The projects we produce in this field are highly appreciated in Turkey.

What's the plant of this season? How much did you get? Can you tell us briefly?

As I mentioned before, we attach importance to diversity in production rather than seasonal plants. I think that seasonal plant production belongs only to the companies that produce flowering plants. But in our sector, of course, there are plants that do not change. For example, sycamore and linden are among the most consumed plants.

Which plant is your favorite?

I like more colorful leafy and green plants every year. Especially in autumn, I have a more sensitive feeling towards plants that change the color of leaves.

How did your paths cross with Oya Fidancılık?

Our paths crossed with Oya Fidancılık primarily at a fair. Especially the fact that it only cultivates crepe myrtle and its quality of production caused us to work with it.

Finally, do you have anything to share with our readers?

It is obvious how important this sector is for our country and the world. Recent increases in temperatures and droughts are changing the world's climate. Therefore, it is obvious that plant production will gain more importance day by day. Our Group Plantpark family's duty is always to produce. That's why we do not only look at the situation financially with all our staff members, and for this reason, we are working together in the best way.

Interview

Gülçin Çiçek
Corporate Communications Specialist

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Fruit That Hides Its Flowers Inside

fig

Figs are edible fruits of “Ficus carica”, which are small tree species in the mulberry family. It is widely grown worldwide as both a fruit and an ornamental plant.

Climate and Soil:

Figs are fruits of subtropical (just north and south of the tropics) climate zone. Since it is a valuable fruit, it has been tried and cultivate in many places with a temperate climate. It grows in places up to with an annual average of 18-20 degrees.

Temperatures up to 30 degrees near harvest time are important for the ripening of the fruit. These temperatures are important for drying. Figs cannot be cultivated where temperatures are -9 degrees Celsius. The annual rainfall demand is about 650 mm. If it falls below 550 mm, irrigation is required. Quality products cannot be obtained in soils with ground water closer than 2 meters.

Fig trees don't bloom like other trees. It blooms in a pear-shaped cocoon and then ripens into the fruits we eat. Each flower then forms a one seeded, hard-shelled fruit, called ‘achene'. Each fig consists of a few achenes.

> **“Figs are technically not a fruit but a bundle of flowers turned inside out. So when we eat figs, we actually eat multiple fruits.”**

What to know about the fig we love to consume;

- The root of the word “Fig” comes from the Latin word “ficus” and the old Hebrew name “feg”.

- In addition to the consumption of people by eating, it is also used in the production of different creams and lotions in the pharmaceutical industry.

- They can grow between 3 meters and 9 meters. It was seen that they could reach 15 meters, although not much.

- The root of the fig tree is usually located close to the surface of the soil.

The fig tree blossom is invisible from the outside. The scientific name for this type of flower is infructescence.

- Figs are pollenized by a special type of wasp that enters the recess through a small passage.

Figs normally produce fruit in their branches. However, some types of figs can develop fruit on the stem.

Figs are a rich source of fiber, minerals and vitamins. It has a pleasant and sweet taste.

- They can be used in the treatment of chest congestion, and as a face mask known to tighten the skin. Juice from fig leaves can be used to relieve insect bites.

- Figs are recommended for people who want to quit smoking. Due to their high alkalinity, they can reduce the desire for smoking.

- The fig tree can survive for about 35 years.

Figs are one of the first plants cultivated by humans.

- The Cadota variety of figs was included in the literature by the Roman naturalist Pliny in the 1st century AD.

The province of Aydın also has a special place for Figs, 62.5% of the fig production in Turkey is in Aydın Province. Aydın province is followed by İzmir, Balıkesir and Bursa provinces.

95% of the figs produced in Aydın are used as dried figs. The rest is consumed as fresh figs. The distinguishing feature of fig grown in Aydın is the yellow lobe variety, which is different specie.

The fruits of yellow lobe figs are round and flattened. The average grain weight is about 75 grams. Their skins are yellow in color and peel easily. Their kernels are medium-sized. There is no cavity in the fruit, it is very sweet and fragrant.

The yellow lop variety is used as drying. It is ahead of other varieties in terms of fruit yield. Its ripening begins at the end of July, and the beginning of August, reaches its peak at the end of August, and is completed at the end of September.

Cool Shadow Deep Roots

Plane Tree

Plane Tree;
is a species of tree commonly found in the eastern part of Europe, and North America. Plane tree grows on the banks of lakes, streams, and rivers.

Plane trees grow quite fast. They have a long life. Over time, their insides decay and become empty, but they continue their lives.

Information about the plane tree

The plane tree is a name given to the tall, thick tree species that make up the Platanus genus.

The characteristics of the plane tree, which is among the tree species that can also be grown as ornamental plants;

-It has solid roots,

-It's scattered and has thick branches,

-It is widespread and has a wide structure,

-It has the feature of cleaning the air

It has a very long life,

-It has the ability to grow fast,

-The ends of the spilled leaves are pointed and toothed and their bottoms are round,

-One of the most important features is the ability to give stump shoots,

-It can be planted for four seasons,

-It is a type of tree that can grow in any soil.

Planting on the roadside is not suitable.

How to Grow and Prune a Plane Tree?

AAnatolian plane tree is not resistant to frost in places with a cold temperature higher than -20 degrees Celsius in winter. If you planting in a colder area, the London plane tree will be more suitable. Because London plane tree has a structure that is resistant to heavy frost up to -40 C in winter.

If you are planting plane saplings side by side, there must be at least 4 meters of space between the seedlings.

Plain trees are trees that do not need pruning. However, it is a type of tree that can be pruned easily when necessary. In this respect, pruning operations can be carried out for various purposes. If the tree is desired to be too tall, the lower side branches must be cut as the tree rises. If you want very thick branches to grow scattered all over without rising too high, you should choose from the branches that spread around when the sapling is small.

You have to cut out the remaining branches and remove them. In order to prevent these selected side branches from going upright, you can temporarily tie them down with ropes. When pruning plane trees, the tops should never be pruned. This form of pruning can cause serious damage to the tree.

How to care plane tree

Fidanlarının dikiminin gerçekleştirilmesinden sonra ilk iki yıl yaz aylarında kesinlikle susuz bırakılmaması gerekir. Özellikle de ilk yılda yaz boyu sulamalarında ihmal çok büyük bir risk oluşturmaktadır.

Benefits of Plane Tree;

-It has the feature of healing mild burns,

It's a painkiller for toothache,

-It has an effect that strengthens the gums,

-It is useful for lowering tubercles in the body,

- It's good against animal poisoning,

- It has the benefit of regulating gynecological diseases,

-Prevents the formation of edema in the body,

- It's good against epilepsy,

- It is beneficial for rheumatic disorders,

-It's good for psoriasis,

Plain Tree Usage Areas

- It is used in the furniture industry,

-It is used in parquet construction,

- It is used in wood manufacturing,

- It is used in ink production.

SEIKILOS EPITAPH

World's Oldest Song

Tralleis lived in the ancient city of Seikilos, is the first songwriter to have lived 2300 years ago.

Seikilos Tomb Inscription is an Ancient Greek tombstone that was found in the ancient city of Tralleis during the construction of the Aydın-Izmir railway in 1882-1883 and attracted the attention of scientists with its musical representation.

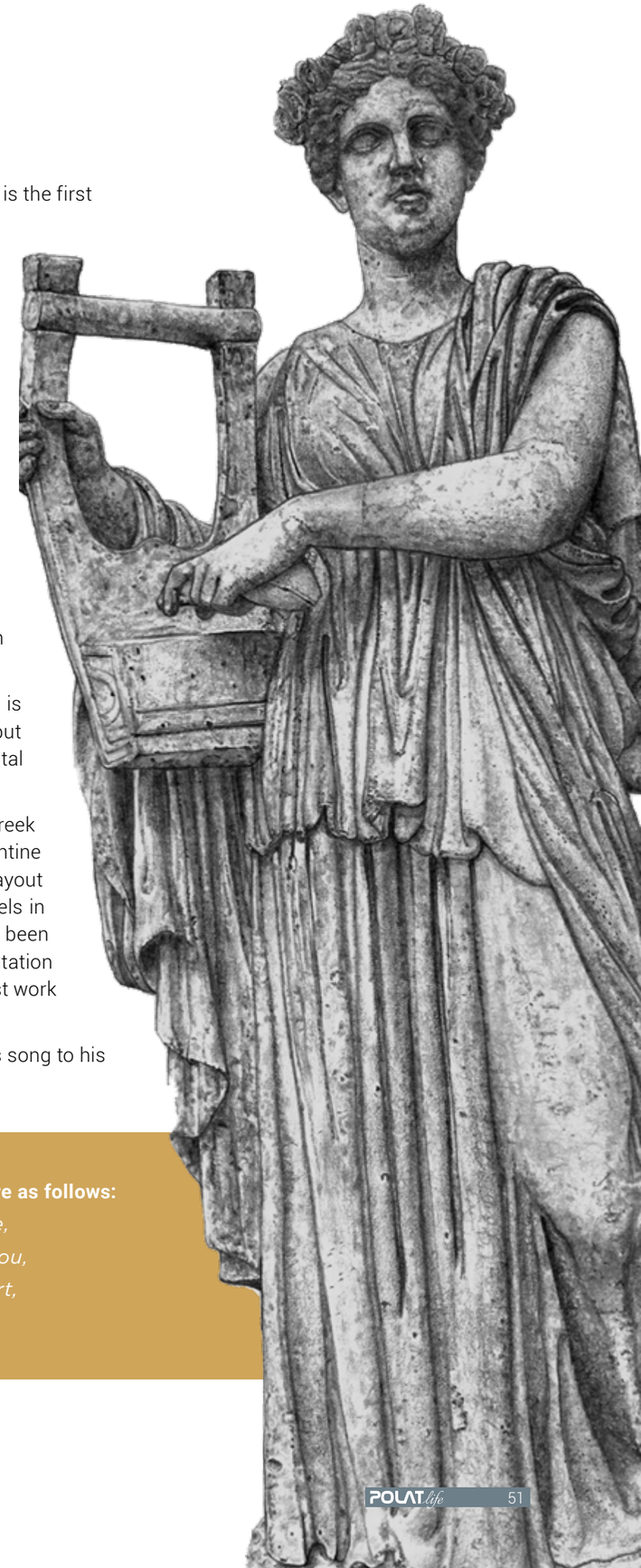
Seikilios wrote the first music and song lyrics with notes on the marble tombstone he had made while he was alive.

The epitaph was taken to Copenhagen, Denmark in the 1920s. This tombstone has been exhibited in the Copenhagen Museum since 1996.

In the statement under the Burial Stone is written: "I am a stone, an image. Seikilos put me here as an endless sign of his immortal memory. "

The notes were written with Ancient Greek musical notation used until the Byzantine period. This notation is an easy layout consisting of icons placed above the vowels in the lyrics. Compositions have previously been found in other burial stones, but the lamentation on the Seikolos Burial Inscription is the first work that can be interpreted(fully) musically.

It is not known whether Seikilos wrote this song to his wife Euterpe or to his son.



The English words of the Greek poem are as follows:

As long as you live, shine,
Don't let anything upset you,
Because your life is short,

Our Inventors
Leading the World

Which of us know our inventors, who are known worldwide for their inventions that affected our lives in this century? Let's get to know these people who lead the world with their work.

Mathematician Cahit Arf:

Mathematician who lived from 1910 to 1997. He made significant contributions to the world of mathematics and science by finding terms which are known by his name, such as "Arf Constant", "Arf Rings" and "Arf Closures", which emerged in the "classification of quadratic forms of objects". He developed the Hesse-Arf Theory with Helmut Hesse, a German mathematician. The following quote sets an example for all our young people.

"Mathematics is essentially a matter of patience. It is necessary to understand not by memorizing, but by discovering. "

Ord. Prof. Dr. Cahit ARF

Molecular Biologist Aziz Sancar:

He was born on September 8, 1946. He is an academic, biochemist, molecular biologist and scientist. In 1997, he started to work at the University of North Carolina in the United States. Prof. Sancar is known for its pioneering of biochemical approaches used to identify many parts of DNA (deoxyribonucleic acid) repair for 20 years. He is recognized as the first American Turk to be elected to the US National Academy of Sciences. He won the 2015 Nobel Prize in Chemistry for his research mapping how cells repair damaged DNA and preserve his genetic knowledge. The terms "excinuclease/excision nuclease", which Aziz Sancar developed and named with the "maxicell" technique, entered into the Oxford Dictionary of Biochemistry and Molecular Biology.

Dermatologist Behçet Uz:

Hulusi Behçet, who became famous as a "Medical Scholar" with his studies, was the son of Ahmet Behçet, one of Atatürk's friends. He started his education in Beirut, where his father went on duty. Afterwards, he worked to become a doctor until he graduated from Military Medical School. He continued his education at Gülhane Military Hospital. During World War I and the War of Independence, he worked as a dermatologist in hospitals in Edirne, Eskişehir and Kırklareli. Uz, who developed himself in Europe and started to apply what he learned in Turkey until 1933, established the Dermatology and Syphilis clinic of Istanbul University Faculty of Medicine. Continuing his academic career, Uz became the first Turkish academician to receive the title of professor. Behcet's disease, which has not been clearly defined since Hippocrates in the medical world, is called Tristymtom Behcet.

Physicist Mete Atatüre:

Atatüre, who measures the noise of the light sound and makes history with his team with this work, thinks that we are very likely to find a different life form in another corner of the universe.

Historian Afet İnan:

Atatürk's adoptive daughter, Afet İnan, is one of the social scientists educated by the Republic. Having started teaching at the age of 17 after completing Bursa Girls' Teacher School, İnan was sent abroad to receive foreign language education after being recognized by Atatürk. Afet İnan, one of the best historians of the country with his education, played a major role in the establishment of the Turkish Historical Society when he returned to Turkey. Afet İnan, who was a professor of history in 1950, passed away in 1985.

Sumerologist Historian Muazzez İlmiye Çığ:

Muazzez İlmiye Çığ, who had carried out studies on the Sumerians, was an expert on Sumerian, Akkadian and Hittite languages. She has written more than 13 books on the languages, cultures and beliefs of societies. She made a great impression especially with her book "History Starts with Sumerian".

Sociologist Şerif Mardin:

Şerif Mardin, one of the scientists who proved that science is not just numbers, introduced many concepts to Turkey in his studies in the field of social science. He graduated from Galatasaray High School and the Department of Political Sciences at Stanford University. In 1954, he returned to Ankara University Faculty of Political Sciences and continued his studies there. In 2007, for the first time, Şerif Mardin brought up the term "neighborhood pressure", which was heard by almost everyone. Mardin's contributions are undeniable at the point where social sciences come scientifically in Turkey today.

Physical Engineer and Inventor Canan Dağdeviren:

Canan Dağdeviren, one of the next generation scientists, is the first Turkish member of Harvard University's Young Academy. Dağdeviren, a researcher at the MIT Media Laboratory on wearable technology, flexible electronic devices and next-generation circuits, invented the wearable heart chip that can diagnosticate skin cancer.

Biochemist Naşide Gözde Durmuş:

She became a research assistant at the Biochemistry Department of the Medical School of Stanford University to fight against a disease she experienced as a child. She made a name with her study on the early diagnosis of cancer. Among the scientists, she is referred to as "the groundbreaking leader in medicine and biology".

Medical Doctor Jürkan Saylan:

Türkan Saylan is one of the most influential doctors and researchers in the history of Turkish medicine. She was the Head of the Department of Dermatology at Istanbul University Faculty of Medicine in 1963. In 1976 she began her research on leprosy, in 1986 she was awarded the Gandhi Prize in India, as a researcher with an international identity. She worked as a consultant for the World Health Organization on leprosy until 2006. She was the founding member and vice-president of the International Leprosy Union (ILU).

Chemist Oktay Sinanoğlu:

Oktay Sinanoğlu is known not only for his work in the field of chemistry, but also for his thoughts on the Turkish language. Sinanoğlu, whose father was consul general in Italy, returned to Turkey at a young age and continued his education there. He graduated from Berkeley University in California in 1955. Sinanoglu is the youngest scientist to become a professor of chemistry at Yale University. He has also made many suggestions for the originalization and purification of Turkish.

Astrophysicist Feryal Özel:

Feryal Özel, one of the most prominent scientists in today's astronomical world, has a career full of success. Özel, who taught astrophysics at the University of Arizona after working as a researcher at NASA, also won the "Maria Goeppert" award given by the American Astrophysics Association to the most successful astrophysicists in 2013. She is among the members of the Turkish Academy of Sciences.

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