

YILMAZ GLOBAL

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Yılmaz Redüktör Sectoral Newsletter

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Both **educational** support and **fidelity**...

A Pride and Honour Story:

University of Kastamonu Abana Sabahat-Mesut Yılmaz Junior Tech. College



We are pretty sure that, our beloved father Mesut Yılmaz, who lies in his grave which is a hundred meters away from the school where his name is given, is many more peaceful and proud than us no matter how happy and proud we are. Morally the most important is being able to value people when they are alive.

I can see the pride in the eyes of our beloved mother that such an educational facility is built by her family and given the name of hers

This service is also a fidelity to Kastamonu, where our roots are coming from.

From Editress...



We have left behind another year with sweetly smile. Now we are all doing the accounting for 2017. Surely everyone is looking from his side. As business people, one side of ours is focusing on production, H&R, export profit/loss and other numbers, our other side is same with everyone else looking at health, peace and happiness.

Despite all life goes on and regardless of short relaxations it will keep going. As Bülent Ortacıgil, a Turkish song writer, says "This Stream Never Stops."

As time goes by Yılmaz Newsletter is welcoming the new year with its 3rd volume.

Welcome to New Year!

In this edition you will find out the foundation story of University of Kastamonu Abana Sabahat-Mesut Yılmaz Tech.College's which we as Yılmaz Family realized and donated to educational system. We will send greetings to the innocent child of Turkish Poetry Orhan Veli. Then we will stop by Datça, yet again another great poet Can Yücel named as "Totally different thing"... In this cold winter days Datça's seaside will warm your hearts.

And of course sectoral topics, professional life and news... Also I have great news, Spring is coming after Winter.

I wish 2018 brings all the greatness, first health then peace and success to all of us.

Happy New Year!

Özlem Sönmezşık

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Ender Yılmaz
Chairman / Yılmaz Redüktör A.Ş.

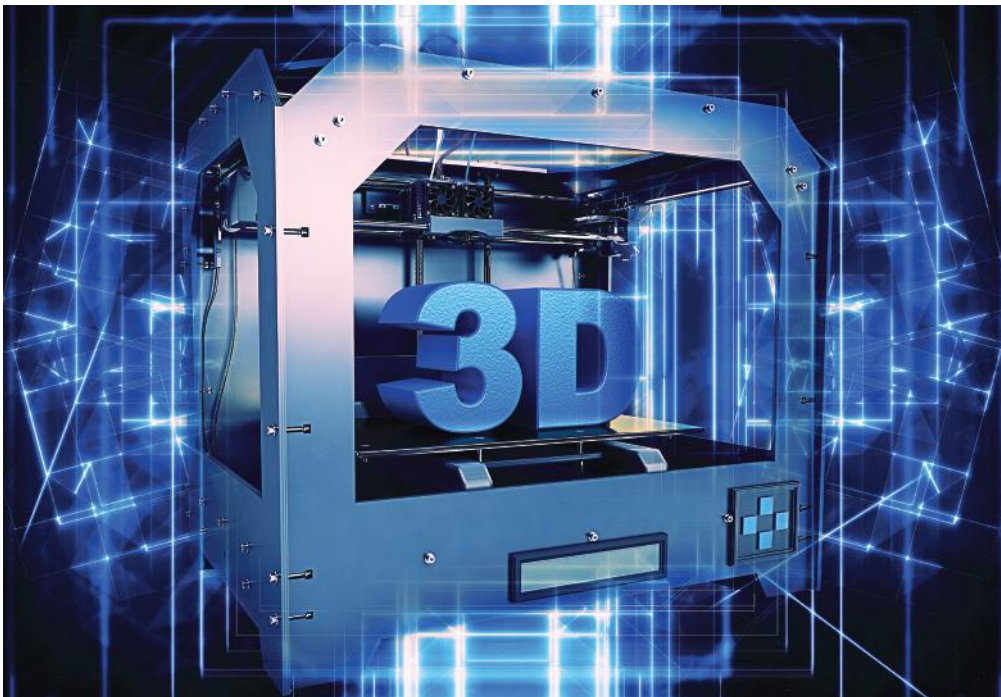
Dear Business Partners,

The things we write at very short intervals in our ever-changing and transforming world at a dizzying pace are even losing their validity. Even now when I write these words, there are changes occurring which we do not know in the world. I am trying to convey the plans and futuristic technologies to you every time I write from this corner.

If we look at technological trends in today's world:

- Big Data
- Block chain
- Artificial Intelligence
- Hologram
- IoT, M2M, V2V
- Augmented Reality
- 3D Print and Drawing Technologies

As you can see, many of the terms and applications are very strange to us. We are



Message from Chairman



trying to keep up with the system; but our knowledge, our experience and our business culture are distant to these and we do not understand exactly. If we are continuing to be stranger to these, we will certainly be a third world country and we will have to buy what others

innovate and produce in proportion to our power.

Only the new trend: industry 4.0 will not be enough in this process. In order to be a sustainable industrial enterprise, it is very important that the products we produce are compatible with the Industry 4.0 process.

Changing the educational system in our country and training new individuals who are compatible with the system seem to be crucial for the process to proceed, and this process should be applied from the kindergarten through the universities.

Another important agenda is that commodity prices, energy price increases and labor price increases, exchange rate changes are negatively affecting product costs. It reduces the profitability of the companies and even brings them to the stages of harm.

This situation cannot be intervened too much. The pressures of domestic and international competitors are increasing day by day with the narrowing of the markets.

Parallel to this, we look at it as a good development; The Far East has started to expand our sales markets around the world, especially with the rise in labor prices in China.



When we evaluated the year 2017 from our company perspective, we left behind a very successful year in business volume. Production and sales volumes increased by more than the target figures.

Yılmaz Group Companies also proportionally grew which shows the growth of the sector in the same direction.

We have made so many new investments to keep growing and we continue to do so. In terms of our companies, we have signed sales agreements with many customers in new markets. Now, we are a global company that is recognized and preferred by the world.

We will never embarrass or abuse our business partners who have trusted us for 60 years. Trust us; we will grow up looking forward together and winning together to be the better.

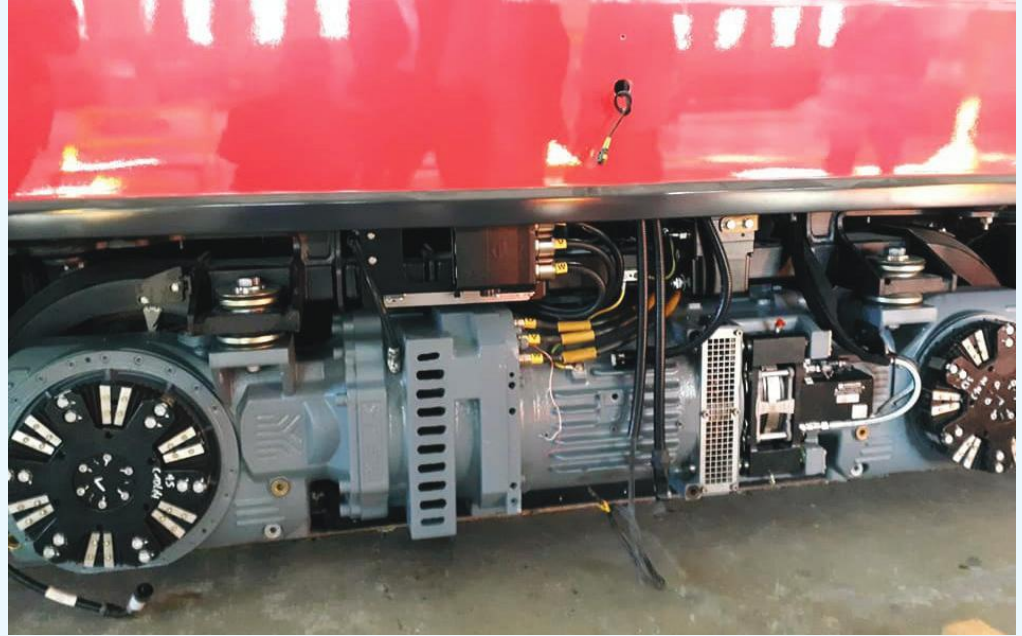
I would like to offer my sincere wish that 2018 will be the most profitable for whole of our partners.





Metin Yılmaz
General Manager / Yılmaz Redüktör A.Ş.

Evaluation of 2017



We are approaching to end another year. Although we started with hesitations to year 2017, increasing internal and external demands during the year indicate that the productive confidence increases and this makes all Yılmaz Redüktör family happy.

I would like to thank all of the Yılmaz Reducer community for the year 2017 which resulted as a very successful year.

With a focus on continuous improvement, in 2017, helical gearless products in series M and D, as standard up to 5 body size, have begun to offer to customers without price difference. This is a milestone in the industrial reducer sector.

Throughout the year serious work has been done on paint and paint quality has been increased. The V series single body crane gearboxes are patent protected. This patent for a gearbox for crane sector in our country is also happening firstly.

The large industrial gearbox family has been extended to 470000Nm and the corresponding gearbox housings, including H24, have been added to the catalog. The catalog will be published within a few months. The small DO series has been added to our type of hollow shafts and has also been added to the catalogs. The intermediate body has been added to the K Series and the K973 bodywork has been about to be completed.

All the developments mentioned above have been made to better respond to customer expectations. But I would also like to share a very important project that we have done for our country.

One of the major developments in 2017 is the final approach of the Tramway Project developed by the partners of Durmazlar, Aselsan, ELK Motor and Yılmaz Redüktör project partners as TEYDEP project. Approximately 2.5 years have passed since the beginning of the project. The tram is driven by 110kW 4 electric motors (ELK Motor) and 8 hypoid gear conical gearboxes (Yılmaz Redüktör).



The drive and software are produced by Aselsan. After each of the components have been subjected to detailed testing by the manufacturers, Durmazlar, as the project manager, has assembled all the parts meticulously by assembling them on the chassis which they produced. The tram, with a total of 440kW (600PS) power, has started to spin with all the locals on the Durmazlar test track.

This proud development will be announced in the coming days from different news channels.

It is one of the most concrete examples that our country's needs can be met with domestic engineering and capital power on demand. I wish all the best to my country already.

Our world has been digitalized very rapidly in recent years. Inevitably, our mobile phone

we carry in our pockets is our best business pursuer and it is indispensable for us in our everyday work.

Beta versions of 2 mobile apps mentioned at the beginning of the year are published. In this regard, you can get information about our IT department.



Finally, I congratulate your new year, and wish to have a peaceful and happy year together with all your loved ones.

Best Regards



Both educational support and fidelity... **A Pride and Honour Story:**

University of Kastamonu Abana Sabahat-Mesut Yılmaz Junior Tech. College

We have done an interview with Ender Yılmaz, Chairman of Yılmaz Redüktör, regarding establishment of University of Kastamonu Abana Sabahat-Mesut Yılmaz Junior Tech. College, which's construction is handled by Yılmaz Family and named after the founders of Yılmaz Redüktör.

Mr. Ender, could you please tell us the story of the beginning of this project?

The Mayor of the City Abana and the District Governor in charge at that time had visited me on one of their arrival in Istanbul. On that meeting, the subject of this project was discussed. They told me that they were in contact with Kastamonu University and that we can get permission for Abana Technical College if we can offer a project.

Then, in Istanbul, a school-making association was established urgently. After the meetings some money was collected; the school's architectural project was drawn. The project was approved by YÖK. However, since the collected money is too short to cover the project fee, we paid the money of the architectural firm as Yılmaz Family

After excavation the construction stopped for a long time. At that time we had signed a protocol with Kastamonu University and we made the construction of the school totally as Yılmaz Family. Thus, on December 4th, 2010, the initial groundwork of the school was laid.

When did the project completed?

Later, with the land where the Ministry of Health building was located and the land in which the Forestry Department's lodgings were located was bought and donated to the school. The school was delivered on September 7, 2013, just 643 days



In addition, the school has 31 classrooms, 4 laboratories, 1 library, 1 drawing room, 16 teaching staff offices and other administrative buildings, social areas and sports fields.

Mr. Yılmaz, can we get your feelings about this project?

As Yılmaz Family we are a 60-year old industrialized family that is trying to benefit the country's economy and development.

Industrialists have

factories; working machines and workers ... But we added a new one to this; now we have a school.

When we do our jobs, we need the most qualified human resources. Technical High Schools also train the intermediate staff that we need in this regard. For this reason, this school is very valuable and the students who graduate from these schools will make great contributions to the development of the country. As a family aware of the importance of education for humanity, we are aware of our social responsibilities. We are in the effort of reaching our country to the bright tomorrows by supporting and living the educational institutions. Our belief is that future generations will be our source of pride.

We are so happy and proud today, our beloved father Mesut Yılmaz, who lies in the grave of a hundred meters to the so-called school, is much more peaceful and proud than we are. Spiritually, the most important thing is to be able to value people when they are alive. In the eyes of our dear mother, I can see the pride of such an educational institution which is being made by her family and given her name.

This service also owes us a fidelity to Kastamonu, where our roots are located ... This was a blessing from God. This kind of charity organizations honor me and my family very much and encourage us.

after the foundation, in a self-sacrificing work. Of course, for the sincerity to work here, Abana lover Erdal Eren and Erkal Ünal, along with Ridvan Oyar, former mayor of Abana and his colleagues' support has never forgotten.



Can we get some information about the school?

School has 7.000 sqm closed and 3.000 sqm open area. Currently, there are Natural Gas and Plumbing Technologies, Industrial Molding, Automotive Technology, Building Inspection and Local Administrations departments are present in the school.



HK1824 Gearbox

Has been Added to our Product Range.

As a family of Yilmaz Reduktor, we completed the production of HK1824 gearboxes with 240.000Nm torque in October 2017

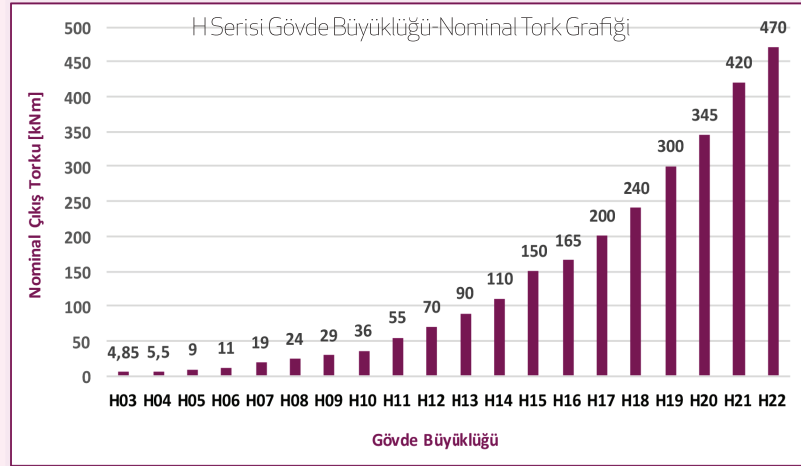
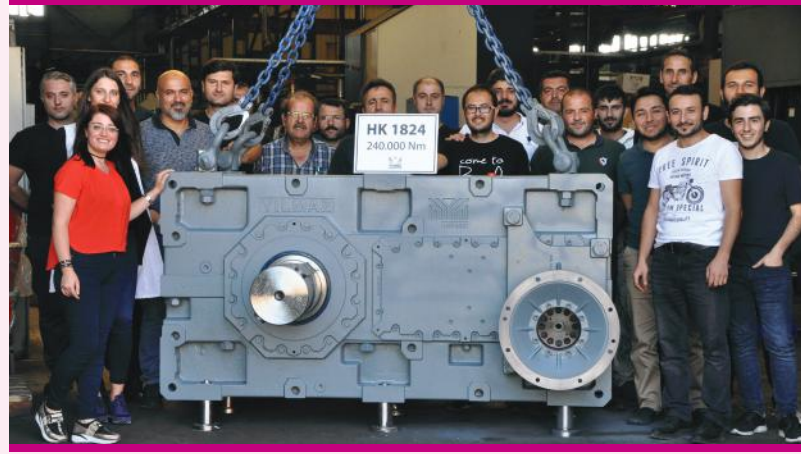
Two HK1824 gearboxes have been delivered to crane manufacturers for use in lifting groups of cranes with a capacity of 170 tons to be commissioned abroad.

Gearboxes are produced with double output shaft with motor coupling flange, shaft output from input shaft for eldro brake connection and double drum installation.

Body castings made of spheroidal material were made in Mes Elektromekanik Döküm factory in Çerkezköy. HK1824 gearboxes are horizontal type heavy duty gearboxes belonging to H Series product group.

H Series gearboxes can be offered in 20 different body sizes from H03 to H22, offering 470.000Nm.

According to the requirement



of the rpm, the product can be made from 2 stages up to 4 stages in standard production.

We provide the additional gearbox to which we connect to the input shaft for lower speed requirements.

HK1824.24R-M1/A31 gearbox

In the design phase of the H Series gearboxes, advanced working software is used to simulate the actual operating conditions of the gear pressure surfaces and the resulting surface pressure values.

These modifications are applied in the gear grinding process for each gear pair, by calculating the gear modifications necessary to obtain the optimum gear output surface.

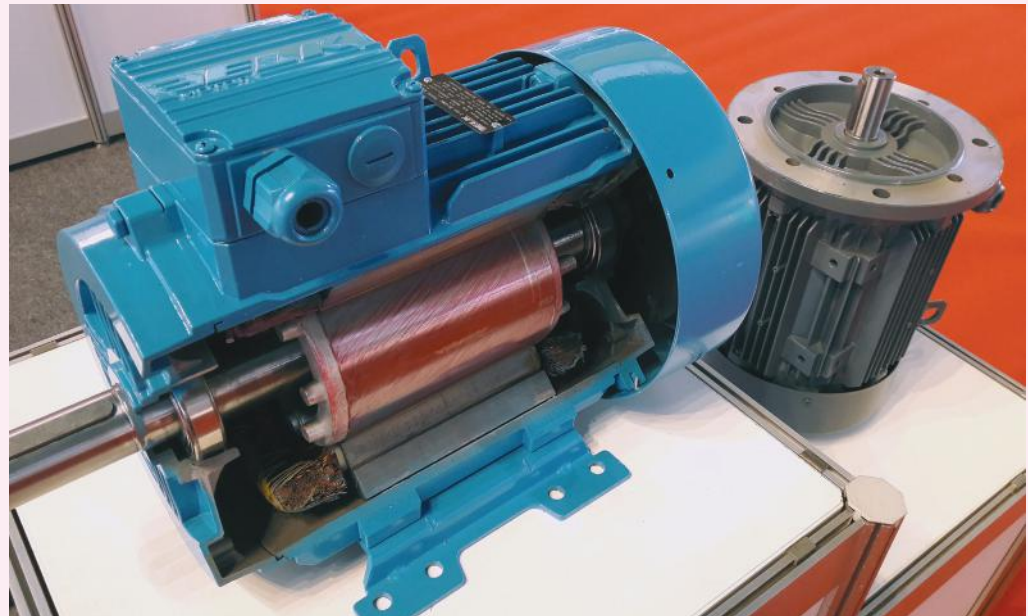
Thanks to its compact body structure, H Series gearboxes with high torque carrying capacity per unit volume can be supplied with various lubrication and cooling options depending on mounting position and operating conditions.

Eyes were at ELK Motor during Munich Tradeshow

The ELK Motor participated in the Munich Fair again under spotlights of the fair.

The exhibition, which lasts for 4 days in total, has introduced the latest innovations to the industrial sector and the products developed in sectoral solutions and innovations.

At the Munich Fair, visitors showed a keen interest to the stand of ELK Motor.



Yılmaz Redüktor Group of Companies and Turkish Education Association Solidarity.

As Yılmaz Redüktör group companies, we continue to take part in social responsibility projects besides the contributions we made to our industry and new investments.

Mustafa Kemal Atatürk as the founder, the Turkish Education Association, gave a brief introduction to the TED scholarship system and presented a symbolic "torch" to us that we have lighted already on behalf of ELK Motor Company.

The ever-shining torch of the Turkish Education Association brightens up the future.

The Great Leader Atatürk always believed in the indisputable role of education in the modernization of Turkey.



In his speech at the opening of the Turkish Grand National Assembly on November 1st, 1925, he declared that the advancement of education called for the endeavors of the private sector and he summoned society to take part in the effort. The Turkish Education Association was established on January 1st, 1928, under Atatürk's vision and leadership, supported by the founders of the Turkish Republic. The Association acquired the status of an 'association for public benefit' in the resolution of the Council of Ministers, dated December 12th, 1939, and since then, it has always been active in the field of education, making great contributions to the educational life in Turkey.

Venice of Anatolia, Lovely Eskişehir..



Yılmaz family enjoyed yet again an unforgettable event together.

The last organization that our company realized was to visit Eskişehir from the

most beautiful cities of Anatolia and get recognition. During the trip activity held on November 18 - 19, Eskişehir's historical and unique nature has been explored along with today's modern beauties of the city

Employees of Yılmaz who visited the city's very special places such as City Park, Wax Museum, Sazova Science Park, Odun Pazarı, Kurşunlu Kulliyesi, Meerschaum Museum, experienced an unforgettable trip.



Yılmaz Redüktör ve Elk Motor Communication and Solution Meeting



Yılmaz Redüktör and Elk Motor has done a Communication and Solution meeting with their dealers across Turkey at Yılmaz Redüktör Esenyurt Factory

The aim of the meeting was to motivate both participating dealers and to talk about their work, the problems and goals they met and share the innovations and goals of the year.

Another purpose was strengthening communication by providing an environment in which dealers can express themselves.



ELK Motor has been sponsored to SV Budel by the Dutch Children's League's Top Teams...

A cooperative effort was made between ELK Motor and SV Budel Club, one of the Dutch Children's League teams. According to this agreement, ELK Motor became the sponsor of SV Budel.

The Netherlands is not only one of the strongest names in world football; at the same time the country is among the most who trains the best youth players. That is because the Netherlands attaches great importance to the infrastructure and follows and grows footballers from childhood.

Thus, children are involved in a healthy life with sports, and develop themselves within a team spirit, a sense of winning and a brilliant career plan.

Children under 15 in the Netherlands are one of the best examples of this ... The SV Budel Club is also one of the teams in this league.

Founded in 1929, SV Budel has brought more than 800 children to the football world so far.

As the Winter and Summer season, the children who play football for two seasons a year are doing their games on Saturdays.



37kW, 45kW Motors Offered to Our Industry



Alkan Demircioğlu
Sales and Marketing Manager / ELK Motor

At our factory in Çerkezköy, where we currently produce approximately 280,000 electric motors, we have made 225 body ready for our industrial service. At present, we have made 37kW and 45kW ELK Motors with 225 body ready for the use of our industry, at the moment we only produce 4-pole.

Very soon, our production at 225 body will be ready in other poles too. We have shared the first information on the topic with all our dealers. Our dealers are ordering the first stocks in this direction. As a result, our dealers are able to easily supply ELK Motors to end customers who are active in various sectors of our industry in the level of high quality, performance and efficiency in the range of 71-225 body by using both stocks and fast production times.

With our 225 body ELK Motor production, there are no other domestic manufacturers other than us, who are able to offer a complete solution under the single roof from electric motor to the drive in our country, from the electric motor to the gearbox and from the gearbox to the working machine. We aim to present this advantage to our customers as much as possible and to offer our comprehensive solution services that no other competitor can offer them.

International Certification and our UL Certificate

Inseparable parts of international trade are respectively high quality and performance product, favorable performance / price ratio, after-sales service and certification. As ELK Motor we are targeting all these values to ourselves. Every single electric motor that is produced in our Çerkezköy factory passes

thoroughly the necessary tests and the final checks are carried out completely. The most appropriate cost / price analysis is done based on the internal dynamics of the local and international markets. The feedbacks from our customers are monitored carefully and the necessary interventions are carried out by us. In addition to all these, the work on certification and the necessary infrastructure preparations are organized.

Certificates, especially in international norms, provide advantages in international trade and in international projects. We have the "VDE Quality Approval Certificate" regarding IE3 efficiency, which is no other local competitor today as of ELK Motor, eg IE3 super high efficiency motors. VDE is an independent laboratory on the German portal and this document certifies that the technical data vs what we have produced with our electric motor as a manufacturer are fully compatible and accurate with each other. When our customers choose us, they are 100% sure of energy efficiency that we will provide them from our motors which they use in their facilities.

From GOST, CSA, UL, NEMA certificates etc. which are necessary for to International Trade, we are also continuing our studies and preparations for UL Certificates for ELK Motor. We aim to bring UL Certificate to our company very soon. In this direction, especially for the North American market, ELK Motor will be ready. It will not be possible for firms that prepare projects in these markets to be able to supply products from manufacturers that do not have the relevant UL Certification. As we have very close UL Certifications as ELK Motor, we will have serious advantages in these markets and projects.

14 Basic Criteria to be considered in the Selection of Low Voltage AC Motor in Industry

The Most Dissolute Defects

In this volume, we would like to share with you some of the steps related to 'Right Product Selection' in order to avoid the failures and losses arising from wrong product choices in the industry. We offer this to all partners, dealers and end customers.

In order to be able to choose an electric motor with the proper electrical and mechanical properties, we would like to list the necessary steps in sequence. It should not be forgotten; an electric motor that can operate at full performance in an operation and drive the work machine at its optimum point; it is possible to determine the right from the beginning of the customer's needs and to select and manufacture the appropriate electric motor and to present it to the service.

There seems to be no sector where electric motors are not used; but the main sectors in which electric motors are most used are; compressor applications, fan and pump applications, paper sector, cement sector, marine sector, gearbox applications, renewable energy source applications, treatment technologies, packaging and packaging sector, etc.

For all of these sectors it is very important for the sake of systems general performance that we select the main igniting unit which is electric motor in the correct way and design accordingly. Now let's examine the steps of selecting an electric motor that is expected to respond to a sample application, one by one; list what are the technical points that we need to keep in mind.



- 1- The network values for which the motor will operate: supply voltage, phase number and mains frequency.
(For example 3AC 50Hz.400V network rating or 3AC 60Hz.380V.)
- 2- Motor run pattern: the motor will run continuously or disconnected when energized. (different working regimes, S1 ... S9)
- 3- The desired degree of protection of the motor: IP protection class against external influences.
- 4- Number of motor poles: The number of motor poles, in other words, what speed / minute will be the detection of the question.
- 5- Motor Rated Power: how many kilowatts of power the motor will output at the shaft output (this is mechanically derived from the idea of how much kW the machine needs).
- 6- Motor Rated Moment: shaft turning torque to be transmitted to the motor work machine (Nm.)
- 7- Motor Structure Shape: the construction of the structure in which the motor will be built.
- 8- Physical Conditions: Calculation of the ambient temperature (in degrees C.), medium height (in meters) at which the motor will run, and possible drop in shaft output power.
- 9- Ac motor type in the appropriate body size that can be determined in the result of all these 8 items above
- 10- If choosing the most appropriate cooling class for the engine, long-term operation below the main frequency, consider the cooling fan
- 11- If required, design the desired special motor RAL paint code
- 12- Clearly knowing the information that the motor will operate on the main network or via the inverter (frequency converter) and determining the winding insulation and warming class correctly according to this and the ambient temperature
- 13- The connection type of the motor to the work machine, suitable for direct battery or k-pulley interconnection. DE (load) side is determined and selected in the most appropriate way of the Motor Roller.
- 14- and finally, the specific electric motor for application in the direction of all the above items is selected with all the details and taken into the production plan.

We Produce High Performance Custom Design Engines

As ELK Motor since we designed our electric

motors to meet IE3 efficiency class in basic design and technology; In the transition from the currently required IE2 efficiency class to the IE3 efficiency class, thanks to the same mechanical dimensions, we provide a seamless transition to our customers. We produce in our factory in Çerkezköy with all processes from engineering to machining, from casting to sheet metal processing and engine winding. We also produce custom design engines that will provide our customers with advantages in terms of high performance and affordability, together with our standard motors which we produce in accordance with European standards.



The spindle, body and covers are produced in full-automatic CNC looms with continuous quality control, while the rotor and stator packages are pressed in automatic locking lamination molds. After the rotor packages are pressed in automatic injection machines and the rotor shaft group is rolled up, the stator packages are wrapped in the automatic winding machines and then ready to be assembled by means of automatic immersion or VPI (Vacuum Pressure Impregnation) method depending on the usage and usage area. All of our electric

motors that we produce here are always at the highest level in terms of quality and performance. After these processes, our engines which are assembled in accordance with product prescriptions are ready to be packed after passing 100% final control and test phases.

We are Intensively Attending Abroad Fairs

We attended Hannover Fair in April, 2017. In terms of being the first fair to participate in the international arena, it was ELK Motor's first and most exciting experience. Our company has been visited by our customers coming from various countries and mutual productive business negotiations have been realized.

In September 2017, we attended the Drinktec Beverage Technologies Fair in Munich. This show in Germany, which is the industrial giant of Europe, was visited by various companies which serve bottling, filling, packaging, automation of complex lines, machine manufacturing etc. We have informed the visitors about our ELK Motors, our factory, our special design productions and our Motor Modifications.

In October 2017, we attended the Bucharest TIM Technology Fair. Various companies visited our booth mostly from the neighboring countries, mainly Romanian market. In our fair stand, we have exhibited ELK Motors with Brake + Encoder + Forced Cooling Modification. We have exhibited our example electric motors together with various powers of Aluminum and Casted

bodies. Mutual negotiations were held with various companies considering partnership about our ELK Motor dealership and conditions. The contacts are continuing successfully.

In addition to these fairs we have left behind, we will be participating in the SPS IPC Drive Fair in Nuremberg, Germany in the last week of November as ELK Motor, and we will transfer our ELK Motors and solutions to our customers.

Best Regards

Yılmaz Automation Division



Elk. Eng. Özgür Biliz
Automation Div. Mng./ Yılmaz Redüktör A.Ş.

As announced before, Yılmaz Group has launched Automation Division to enhance its product and service portfolio with drives as completing products to motors and gearboxes. This synergy, now, provides 'complete solution under one roof' concept. With this new setup, end users can get technical support whilst selecting & dimensioning the products according to their actual needs as well as technical support after sales to overcome any additional needs, functions etc. just in case they need. All these support will cover motors, gears and drives with this new motto "under one name"

The very must of any sized production facilities, starting from big size factories down to the smallest workshops, is movement. Without the movement, it is hard to speak of manufacturing process. For instance; if nothing is moving from point A to B or a knife not moving to cut a web material or a roller drum is not rotating to wind the folio – the examples are infinite – it will not be possible to speak of any process. Without a doubt, since the introduction of electricity power, as we noted in history as Industry 2.0 revolution, it has been the most common and widely used energy input to any sized processes or manufacturing lines since then. And the electric motors are by far the most common equipment we use to convert incoming electricity energy into movement compared to any other methods. And the gearboxes are widely used to convert physical quantities of motors' outputs (speed and torque) into loads' actual requirements. Therefore, gears are also sine qua non to facilitate motors into industry. This huge

usage in quantities brings all the race and even force-by-law regulations into our daily topics that how efficient products we use in our facilities.

When we consider drive-motor-gearbox, as we call it drive-train, the drives are the most commonly used electronic & power electronic equipment to adjust the speed/torque of connected motor or motor/gear set. Imagine the throttle pedal of a car. Without the variable speed drive, the car would always go at full-throttle i.e. highest possible speed as throttle would have only on and off position... Drives are the first equipment coming from mechanical side of the chain and who has capabilities to talk to us due to its electrical structure. That's why; drives are also essentials within the Industry 3.0 and Industry 4.0 concepts.

The drives are also classified and named under sub categories due to their skill sets or physical structures. As we view the Yılmaz Drive Family, we will see some new additions, especially new comer: branch specific drives together with classical standard drives.



Summary of standard models:

- **YB1000 – Basic Series**
 - o The easiest-to-use, relatively less parameters version low less demanding applications. However, due to the improvements in electronics and microprocessors, we can say even this basic series can handle perhaps %80-%90 of the typical applications we run into every day..
- **YA2000 / YA10 – Advanced Series**
 - o Open-loop sensorless vector control comes here. By the help of this, drive is now controlling not only output frequency but also motor actual speed. This feature is

the most distinctive one compared to basic series. And of course, due to the classification, these drives have more I/O compared to basic versions.

- o By the help of some additional or detailed tuning of some capabilities, these series can also be used especially for some applications in a better manner.

Crane/hoisting application is a good example:

- Frequency threshold for disengage mechanical holding brake (MHB) on Start while raising start



- Frequency threshold for engage MHB on Stop while raising stop

- Frequency threshold for disengage MHB on Start while lowering start

- Frequency threshold for engage MHB on Stop while lowering stop

- Current threshold for disengage MHB when raising start

- Additional holding frequency and time for raising and lowering

These parameters are not required in such detail for many applications. But for crane / hoisting applications, these can be very comfortable to non-slipping transition from mechanical brake to electrical motor torque and operation

vinç uygulamasında daha hassas yük kontrolü yapmamızı sağlayan ek parametrelerdir.

- **YE8000 – Expert series**

- o The major difference here is the capability of using motor feedback equipment such as most commonly used encoder. By the help of encoder, zero speed full torque and holding applications are possible.



- **YP65 – Wall mounted series**
 - o IP65 protected, suitable for outdoor use such as wall mounting without electrical cabinet
 - o Protected against water and dust
 - o Eliminates the need of an electrical panel, at least for the drive itself, may introduce cost benefit of complete system



- **YI – Moor integrated drive**
 - o IP65 protected. These drives are connected on the motor like an extension of motor
 - o Being connected on the motor, these series offer the best space savings.
 - o As motor power cable connected internally and extremely short to ignore, we can say that any electromagnetic interference problems are also reduced due to the nature of it

- **YSS – Servo motor & drive**
 - o Whenever high accuracy positioning and very high dynamics are required, these servo motors and dedicated drives are used



- **YMS – Motor Soft Starter**
 - o If frequency control (i.e. motor speed control) is not required, these soft starters can be used to start motor without too much inrush current

- o Jogging feature
- o Also soft stop feature is provided for any application requiring softer stop in time, especially big pump and check-valve applications
- o Internal by-pass contactors
Up until now, we can say we made a summary what we already had. So, what is new in the close future:

Branch Specific Drives:

These are such models that manufactured specifically for dedicated applications. These drives not only control the connected motor and gearbox but also handles the needs of the complete machine that motor / motor-gearbox is used. If necessary, additional hardware and software resources are provided to do the job and the solution is well proven and tested many times before. Here are some of branch specific products to join Yilmaz Drive Portfolio in a close future:

- **YC3000 – Compressor drive**
 - o Two drives in one body. One for main screw drive and other for cooling fan control.
 - o The HMI out of the box provides all operational parameters of the machine as well as graphical representation of historical trend data.
 - o Pressure, temperature etc. sensor feedbacks return to YC3000 and one drive handles the complete compressor operational control.



- **YP65 – Smart Pump**
 - o Up to 6 pieces of YP65 can be used for 6 pumps. Those YP65 drives will be connected to each other by a serial communication cable. They present a clever pumping system by communicating to each other. The features are:
 - Automatic pressure control
 - Equal ageing
 - Sleep and auto-wake up
 - Anti-freeze function and operation

- **YMP – Multi pump system**
 - o This product is available for bigger power ratings too. One YMP drive can control total 4 pumps by the help of its output signal relays. YMP can do regulating pump application or switching pump application or a mixture. Common features:
 - 4 pumps maximum
 - Sleep and auto-wake up
 - Real time clock and 8 different pressure sets can be programmed for 8 different time slices of a day
 - Equal ageing
 - Small capacity pump for topping-up-a-little when in sleep condition.
 - Each pump can be selected to be:
 - Mains operation only (1 contactor)
 - Mains and drive operation (2 contactors, switching)
 - Sleep mode, top-up pump



- **YDD – Automatic door drive**
 - o Special algorithm for sliding doors
 - o Encoder can be used. In case encoder available, the door width is measured automatically and approach algorithm is according to actual position
 - o Also can be used without encoder. Then, switches are utilized for approach and stop.

Despite the fact that Yilmaz Automation Division is not even one year old yet, as we see; the complete solution under one name concept is proven to be working and growing by adding additional products into portfolio.

Our strive will always be to provide the best and most efficient complete engineering solutions to our clients.

New Products and Innovations



Murat Gedikoğlu
Sales and Marketing Manager / Yılmaz Redüktör

Dear Newsletter Readers,

We are happy to be together with you in this new volume of Yılmaz Global.

We are trying to inform you about our new products and innovations made during the year through our internet site and our dealers in the direction of marketing activities that we have done on behalf of our company.

We will be careful to give the necessary engineering services to the field in order to reduce the products you use in this edition to optimum level and to work more efficiently. With the selection of best products we encourage you to move to a more competitive position in the Turkish and World market

As Yılmaz Redüktör, our efforts are focused to keep up with the recent developments in the market and to be more competitive,

-D073 new Body

-PF Concrete mixer gearbox

-HT1824 240.000 Nm Heavy Service Type Gearbox

-Low-speed series with conical addition in planetary reducers

-KR283 conical intermediate body can be considered. If we are to talk about details of these products briefly:

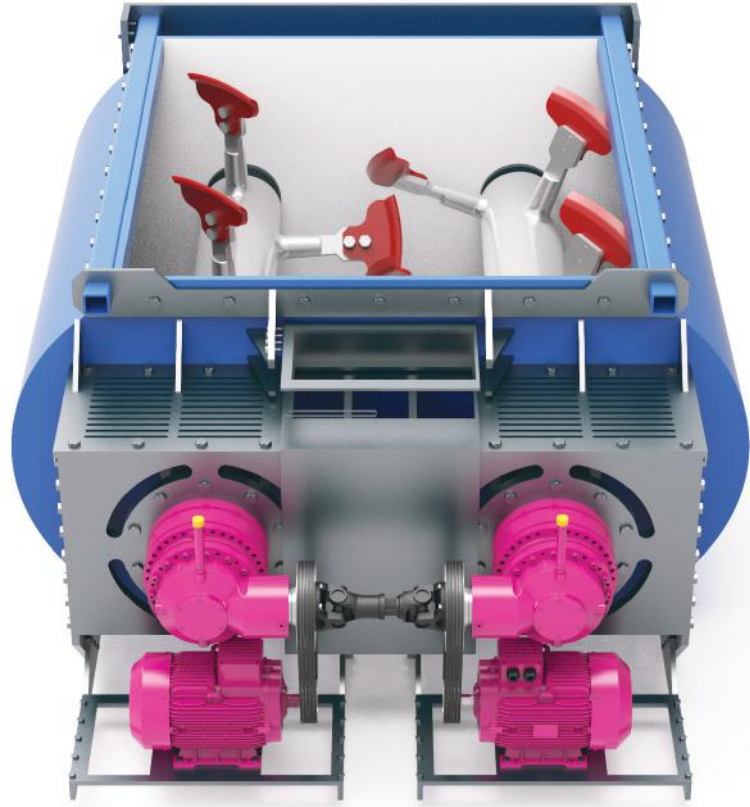
In addition to the D series, which is used extensively in the crane industry especially, the D073 series gearbox design has been implemented and started to be delivered to customers.

Our goal in launching this product is to increase the competitiveness of

the machine manufacturers as we mentioned at the beginning of this article. At the same time, adding a product that is not in our competitors offerings, we are increasing our power and market share as Yılmaz.

PF Twin shaft - Mixer Gearbox, which is one of the sector-specific solutions, falls into a product category which has intensive use in the industry. Our product range research and technical analysis have made our gearboxes, which we have produced, seriously broke the foreign dominance in the market and technically accepted.

Now products do not come to us from abroad, on the contrary, our products go abroad.



time and we think that it will become more widespread in the future. For this reason, we are making investments and developing our products.

The use of low speed gearboxes (Marble tapes, Welding automations, Cranes) Planetary + Conic / Planetary + wormgear products, which are in our production plan, will be improved further and the cost of the machines will be improved in serious proportion and weights will be close to 50%. Our efforts are continuing in this direction.

Lastly, as in our D073 body, KR273, KR373 gear intermediate body and KR283 body production were realized as products to expand and strengthen our product range.

When selections are made, all information is available about our new products in our existing catalogs and on our internet site

As Yılmaz Family Our Goal is:

As mentioned above, we are expanding our product range, increasing our production quality and speed and making more people talk about our brand in the gearbox sector step by step.

The support of our valued customers is very important in the way we will walk in this direction.

See you at your factories, technical offices and next to your machines

**We Have
Seriously Broke The
Foreign Dominion
That Was In The
Market With Our
Product Range.**

In our heavy duty gear gearbox group, which we have been producing for a long time, our HT1824 gearbox with a nominal torque of 240.000 Nm has been designed and delivered to our customer in a very short time in line with the new works.

Considering increase in bigger gearbox usage, approx. 500.000 Nm Up to H series product designs were made.

Planetary products are among the products that have been used in the sector for a long

TRADESHOW CALENDER

| TRADESHOW NAME | DATE | SUBJECT | CITY | COUNTRY |
|---------------------|-----------------------|--------------------------------|---------------|---------|
| TECHNICAL FAIR | 20/03/2018 22/03/2018 | Metal Processing and Machinery | St.Petersburg | RUSSIA |
| METAL SHOW 2018 | 17/04/2018 20/04/2018 | Metal Machinery | Bucuresti | ROMANIA |
| HANNOVER MESSE 2018 | 23/04/2018 27/04/2018 | Industry | Hannover | GERMANY |
| IFAT 2018 | 14/05/2018 18/05/2018 | Recycling | Munich | GERMANY |
| CTT 2018 | 05/06/2018 09/06/2018 | Machinery | Moskow | RUSSIA |
| 2018 TAHRAN SANAYI | 06/10/2018 09/10/2018 | Industry | Tahran | IRAN |
| INDUSTRIAL FORUM | 24/11/2018 27/11/2018 | Industry | Kiev | UKRAINE |

Vegetable Winter Soup (Approximately for 4 people)

INGREDIENTS

2 potatoes
2 carrots
2 branches of leeks
½ onions
3 cups of chicken juice
(you can also use meat juice)
1 glass of hot water
1 tablespoon of butter
1 table spoon of olive oil
2 leaves of fresh basil
1 teaspoon of black pepper
1 desertspoon of salt



PREPARATION:

Peel and wash thoroughly the carrot and potatoes shells. Chop carrots and potatoes. Slice the meals well and slice thinly. Melt the butter and olive oil. Roast onions and

leak. Add carrots and potatoes and fry them with

the onions for 4-5 minutes. Add salt and pepper in this step.

Add chicken juice and hot water and cover the pot. Cook on low heat until the carrots and potatoes soften thoroughly. Stir in fresh basil and add cooked soup. That's it, this is good...



Bon Appetit.

| CITY | DEALER | CITY | DEALER |
|------------|--|----------|--|
| ADANA | Özteknik Elektrik San. ve Tic. Ltd. | İSTANBUL | G.M.P.Genel Motor Pazarlama Tic. Ltd. |
| ADANA | Özteknik Enerji Market Motor Ltd. | İSTANBUL | Gentes Genel Makina San. Tic. Ltd. |
| ANKARA | Abelsan Elektromekanik Tic.ve San. A. Ş. | İSTANBUL | Güleray Elektrik Motorları San.Tic.Ltd. |
| ANKARA | Akarsu Güç ve Aktarım Sistemleri-Mustafa Akarsu | İSTANBUL | Kasaboğlu Elektrik ve Motor San. Tic.Ltd. |
| ANKARA | Aydınlr Elektrik San. ve Tic. Ltd. | İSTANBUL | Meg Endüstri Ekipmanları İth. İhr. San. ve Tic. Ltd. |
| ANKARA | Cündoğlu Ticaret-Acar Cündoğlu | İSTANBUL | Mekanik Hırdavat San. ve Tic. Ltd |
| ANKARA | Mera Motor Makina San. Tic. Ltd. | İSTANBUL | Merkez Motor Makine San.ve Tic.A.Ş |
| ANKARA | Tekin Akarsu Redüktör Motor San. Ltd. | İSTANBUL | Şalter Elektrik Makine Sanayi ve Ticaret A.Ş |
| BURSA | A.S.C. Motor San.Tic.Ltd. | İSTANBUL | Tavukçuoğlu Elektrik Makina San.Tic.Ltd. |
| BURSA | Değişim Motor Makina Yedek Parça San. ve Tic. Ltd. | İSTANBUL | Vek Verimli Endüstriyel Komponentler Ltd. |
| ÇORUM | Dalyan Makina İmalatı San. ve Tic. Ltd. | İSTANBUL | Yeni Ay Seri Motor Ltd. |
| DENİZLİ | Avcılar Rulman Ticaret San. Ltd. | İZMİR | Avcı Rulman Tic.ve San.Ltd. |
| DENİZLİ | Doğan Rulman San.ve Tic. | İZMİR | Motorcular Elektrikli Mak.San. ve Tic. Ltd. |
| DİYARBAKIR | Voltam Ticaret | KAYSERİ | Fen-İş Dişli Teknik Hırdavat Mehmet Aykut |
| ESKİŞEHİR | Eliaçık Elektrik Elektronik Otomasyon ve Malz. San. Tic. | KOCAELİ | Empo Elektrikli Motor Redüktör Ltd. |
| GAZİANTEP | İbrahim Germeyan Ticaret Ltd. | KOCAELİ | Tamsan Elektrik Motor San. ve Tic. Ltd. |
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| İSTANBUL | EMPAR Elektrik Motoru Redüktör San. ve Tic. Ltd. | | |



As Can Yücel says
in his poem:

Totally Different Thing

Can Yücel, famous Turkish poet has left his homeland to start living at Datça as compared to Heaven, once asked "how did you find Datça?" replied, "as I always knew it".

Datça is located at the meeting point of Aegean and Mediterranean seas, very peaceful and green like tales.

The last time we were in Datça, 8 years previously, we had tried to get to Knidos, but



Normally packed with tourists, on the November day we were there, Knidos was windswept, lonely and beautiful. A place to come and sit or explore in solitude. We battled the constant wind to make it to the top of the hills and I was grateful for the focus-lock feature on my camera – it was impossible to hold my hands still to take a photo, so strong were the gusts rushing in from the open sea.

Like many ancient sites all over the world, there are occasional information boards describing the purpose of particular structures or marble blocks, but we were too taken with the scenery – both the natural setting and the layout of Knidos around it – to concentrate on the details. The last time we were completely alone in trekking around a site like this was when we hiked around Cadianda above Üzümlü, near Fethiye.



the mountain road was a track at the time and, on that particular day, impassable. Knidos has remained on our radar ever since.

Thankfully, despite being very high and narrow in places, the road to Knidos is now tarmacked and the ruins are easily reached. It was November and we had the whole site completely to ourselves.

Turkey is well known for its plethora of ruins spanning many significant historical periods and, to be honest, when it comes to ancient Greek and Roman sites, it's easy to become blasé about their presence.

It's easy to become 'ruined-out'. But some sites are special – and Knidos is one of those sites.

We could go into detail and tell you all about how Knidos was a rich, cosmopolitan city, how famous mathematicians studied here, how a certain Sir Charles Newton helped himself to many of the site's statues and shipped them to London (you'll have to go to the British Museum if you want to see them) but you can read all that in a guidebook. And, whilst we're interested in the historical value of Knidos, it's not just the history that makes it special for us.

Like the Lycian and Roman site of Tlos, Knidos is perched on a steep hillside, providing dramatic views. Whereas Tlos affords views over the Xanthos Valley, Knidos is surrounded by the Mediterranean and Aegean Seas. This very tip is the place many people class as the geographical division between the two seas.



From Cadianda, we looked out across the Taurus and Akdağlar mountain ranges and we looked down over a distant Fethiye and the Mediterranean. It was silent and hidden. From above Knidos, we viewed the ancient city below us and the vast, open sea. Where Cadianda is tucked away, as if being kept a secret by the thick, forest pines, Knidos is completely exposed to whatever ferocities of weather care to pass that way. Exploring Knidos on a cool autumn day is an exhilarating experience.



Orhan Veli

Orhan Veli Kanık or Orhan Veli (13 April 1914, Beykoz, İstanbul – 14 November 1950, İstanbul) was a Turkish poet.

Kanık is one of the founders of the Garip Movement together with Oktay Rifat and Melih Cevdet. Aiming to fundamentally transform traditional form in Turkish poetry, he introduced colloquialisms into the poetic language.

Besides his poetry Kanık crammed an impressive volume of works including essays, articles and translations into 36 short years.

Orhan Veli shunned everything old in order to be able to bring about a new 'taste', refusing to use syllable and aruz meters.

He professed to regarding the rhyme primitive, literary rhetoric techniques such as metaphor, simile, hyperbole unnecessary.

Set out "to do away with all tradition, everything that bygone literatures taught", although this desire of Kanık limits the technical possibilities in his poetry, the poet broke new grounds for himself with the themes and personalities he covered and the vocabulary he employed. He brought the poetic language closer to the spoken language by adopting a plain phraseology.

In 1941 his poems embodying these ideas were published in a poetry volume named Garip, released jointly with his friends Oktay Rifat and Melih Cevdet, which led to the emergence of the Garip movement.

This movement had a huge influence especially between the years 1945-1950 on Republican era Turkish verse. The Garip poetry is accepted as a touchstone in Turkish verse for its both destructive and constructive effects.

At first Kanık mostly was found peculiar, he was criticized harshly, and heaped upon much opprobrium because of the innovations he introduced to poetry. Although Orhan Veli's tradition-transgressing works were first received with bemusement and dismay, and were subject to derision and contempt later,

THE SUNS OF THE ANATOLIA

This interest however, eventually led to an increase in understanding of, and affection and admiration for the poet.

Sait Faik Abasıyanık called attention to this aspect of Orhan Veli's public standing identifying him as "a poet who was much scrutinized, at times mocked, at times



embraced, then again rejected, to be once again acclaimed; who achieved both great fame and notoriety in his time".

Although he stands out with his Garip period poems, Orhan Veli had eschewed writing poetry of a "single type".

Kanık had been renewing himself and searching without cease throughout his career in literature, a long adventure of poetry in a short life, that consists of different stages.

Oktay Rifat has explained this by saying: "Orhan lived in his very short lifetime an adventure in poetry equal to a few generations of French poets.

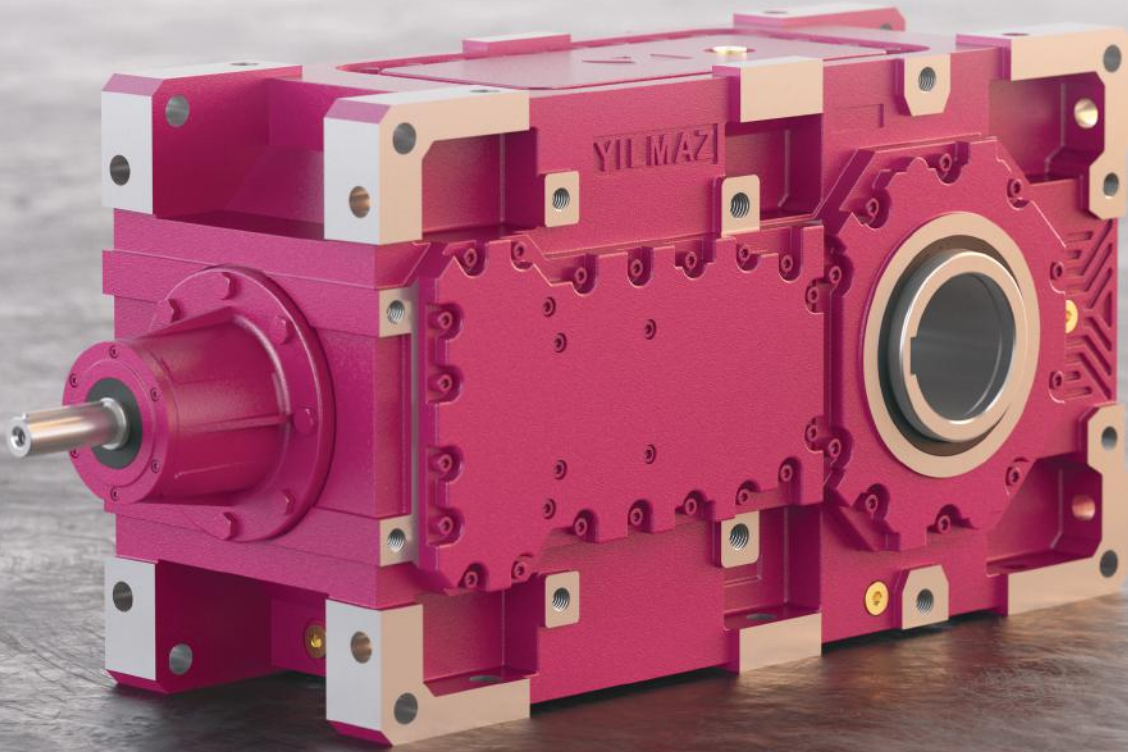
Turkish poetry became head to head with European poetry thanks to his pen.", and: "A transformation which several generations back to back could maybe achieve, he completed in a few years."

I LISTEN TO ISTANBUL

*I listen to Istanbul, my eyes closed:
First, a light wind blowing
A soft wind swaying
The leaves in the trees,
And far off in the distance
The tinkling cups of the water-seller;
I listen to Istanbul, my eyes closed.
I listen to Istanbul, my eyes closed:
Now the birds are passing
In high clamoring flocks,
Nets are pulled in at the fisheries,
A woman's feet graze the water;
I listen to Istanbul, my eyes closed.
I listen to Istanbul, my eyes closed:
The cool covered bazaar,
Mahmutpasha, the courtyards*

*Filled with warbling pigeons,
Hammer sounds from the docks,
Smells of sweat in my lovely Spring wind;
I listen to Istanbul, my eyes closed.
I listen to Istanbul, my eyes closed:
An old world drunk in its head,
A waterfront palace with a dark boat shed,
The humming of the lodges ceases inside;
I listen to Istanbul, my eyes closed.
I listen to Istanbul, my eyes closed:
A pretty young girl walks by
Chased by taunts, come-ons and curses,
Something falls from my hand—
Surely a rose;
I listen to Istanbul, my eyes closed.
I listen to Istanbul, my eyes closed:
A bird is fluttering in your skirts,
Your brow is hot, I know,
Your lips are wet, I know, I know,
A white moon rises behind the pistachio trees—
I understand the pounding of your heart;
I listen to Istanbul, my eyes closed.*

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