2015 Activities Report



C O M D O S I t e S

STRENGTH. SUPPORT. SOLUTIONS.









Company News

Executive Letter	3
Hungary	4-5
Heated Moulds	6
METYCORE-FS	7
Trade Shows	8

Transportation

Dr Hörn	9
Avitas Motorsport	10-11

Wind Energy

TPI		2-1	3
-----	--	-----	---

Marine

Damen	.14
Alen	15

Architecture

Dragos	
	16 17
	10-17

Sponsorship

MSSK	18
Sponsorship	19

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Executive Letter

Dear Customers, Colleagues, and Friends.

2015 was an interesting year for the METYX team, facing new challenges from the market against a back drop of global industrial growth in composite materials, and also coping with change within the company as we continued to expand and strengthen the business to remain in good shape for the future.

Rising Market Demand

All key market sectors generally experienced an increase in demand for composites materials during 2015, with wind energy in particular seeing good growth worldwide. This increase in global demand brought new customers to us, but also created some real supply chains challenges; shortages in glass fibre products affected all players in the industry, making production planning, lead times and costs especially difficult to manage and control. However, thanks to favourable agreements with key strategic suppliers, METYX Composites was able to quickly handle supply issues and minimise any impact on service.

Fabric Production within EU

Since the acquisition in November 2013, the first glass multiaxial fabric line in METYX Composites Hungary was installed and became fully operational by April 2015, with a second line for both glass and carbon fibre fabrics installed and also running by the end of the year. As expected, our Hungarian production facility has increasingly been directly supplying customers manufacturing in the European Union (EU), supported where needed by our Istanbul and Manisa factories in Turkey.

Expanded Kitting Service & Capacity

Brand new Italian technology CNC machining centres were added to the existing kitting operation which has been successfully running in our Manisa factory, doubling our kitting service capabilities in Turkey. Our aim is to establish Manisa as the key cores and fabrics kit supply point in the region for our wind blade customers, with sufficient capacity to meet ever growing demand from the sector. To better serve our EU and export customer base, a new kitting facility has now been set up in Hungary, offering additional group kitting capability from 2016 onwards.

Fabric Qualification Wind

Having established a good reputation with leading wind turbine blade producer TPI Turkey as a reliable supplier of foam core kits, a key business objective was achieved by the METYX Composite team in also becoming an approved local supplier of multiaxial glass fabrics. During 2015, TPI Turkey started using METYX glass fabrics for the blades it produces for GE Wind Energy, and worked closely with the METYX team on continuous improvement projects during the year, identifying ways to reduce costs and improve productivity.

Visionary Projects

As strong believers in the creative power and freedom that composites materials give designers and engineers, we remain dedicated to the advancement of new applications with composites. 2015 will be remembered as a year in which we participated in some exciting new pioneering projects, particularly with innovative architects and building designers looking to use more composites.

Expanding the METYX Family

2015 was also a year of major expansion and change within our business. METYX Composites now operates in four countries and employs around 350 people. More than ever, we recognise the importance of taking care of everyone working in our business. We know that the future growth and continued success of METYX is only possible due to the skills, knowledge, dedication and performance of our people. We offer our sincere thanks to each one of them for their commitment and hard work throughout 2015.

2016 and Beyond

As always, we thank you, our valued partners, for your loyalty and support in 2015. We can a sure you that we will continue to do our best to make sure that METYX brings real value to you and your business.

We really hope that 2016 will be a better year for all members of the composites community.



Uğur Üstünel Co-Director METYX Composites



Tunç Şerif Üstünel Co-Director METYX Composites





New multiaxial investment in Kaposvar

New "METYX Composites Hungary" Facility Now Fully Operational

The new central European production facility "METYX Composites Hungary" located in Kaposvar in the south west of Hungary, is now fully operational, offering new products and services. Production started in April 2015, after major capital investments to create a state-of-the-art manufacturing centre for producing high quality E-glass and carbon fibre reinforcement fabrics. The site now has two fabric knitting lines running and is expected to produce 3000 tonnes during 2016.

The range of multiaxial fabrics manufactured in this new Hungarian facility are ideally suited for producing composite parts used in key industrial market sectors including: building and construction, wind energy, boatbuildautomotive ina. and transportation. During 2015, **METYX** Composites Hungary engaged in intensive qualification programs with wind turbine key manufacturers **GmbH** and Enercon Siemens Wind Power.

To meet demand and improve service levels, especially for EU customers, a new CNC kitting facility offering 'cut to order' foam and balsa cores materials, fabric reinforcement and vacuum consumables

has now also been set up in Hungary. This is an additional kitting facility to the centre in the Manisa factory in Turkey, expanding the Group's overall kitting capacity.

Since the NABI facilities acquisition, METYX has made considerable capital investments, installing two production lines for making multiaxial fabrics, as well as the transfer of systems, technical knowledge and best practices to Hungary, replicated from existing business units. The highly skilled, production team operating the Kaposvar facility has combined the expertise of METYX Composites with a local workforce that has 15 years of experience in high-end composites manufacturing.

The 230,000 sq. m Hungarian site has plenty of space for further expansion of the 12,000 sq. m of covered factory space currently operational.

Uğur Üstünel, Co-Director of METYX Composites:

"We started E – glass fabric product ion in Hungary because of the strategic

importance of being able to provide faster service to our EU distributors. The first multiaxial fabric line gave us an initial start-up annual capacity of 1500 tonnes. This capacity was quickly filled by the middle of 2015, since we were clearly providing customers with shorter lead time and delivery advantages with the logistics we have in place in Hungary. To meet continued demand and order book, investment in a second line was made, which was installed during the second half of 2015, to double capacity to 3000 tonnes per year, and to offer carbon as well as glass fibre fabrics.

The METYX board is very pleased with the productivity, quality and positive attitude of the team in our Hungary factory. This gives us the confidence to consider making further investments to increase capacity in the future."

We started E-glass fabric production in Hungary because of the strategic importance of being able to provide faster service to our EU distributors.

Warehouse facility in Kaposvar factory



State of the art CNC core kitting capability in Hungary $\,$







Installation of the heating elements

Epoxy heated mould for wind blades

Wind Turbine Blade Moulds Feel the Heat

Wind is now well established as a source of renewable energy, with in excess of 430,000 MW of wind generated power capacity installed globally, according to published 2015 Global Wind statistics. Energy Council The vast majority of wind genera tors are on land, but there are projects to develop new 'floating' wind turbine platforms to further exploit offshore wind energy generation in deep water locations, and potentially even inland on very large, deep lakes. The wind energy industry looks set to continue growing for the foreseeable future, needed more and even bigger composite blades, nacelles and nose cones.

Epoxy is the most commonly used resin system for manufacturing FRP composite turbine blades, which typically has a low viscosity. In spite of this, a real problem for moulders, particularly at lower ambient temperatures, is that it can take much longer and be more difficult to infuse the epoxy resin evenly around any cores and fibre reinforcements to produce a good quality 'void free' laminate. The problems is magnified when moulding larger turbine blades, which can be anything from 45 to 90 metres long; the future trend is for even longer blades in excess of 100 metres.

The solution for wind turbine blade manufacturers is to use a heated mould tool, designed to maintain the temperature of the epoxy resin at controlled, viscosity optimum during infusion stage. The heated mould the provides combined advantages manufacturers blade Ωf high productivity due to the faster production cycle time with a faster resin flow rate, and a higher quality laminate being consistently produced due to a more effective resin wetting of reinforcement materials throughout the mould.

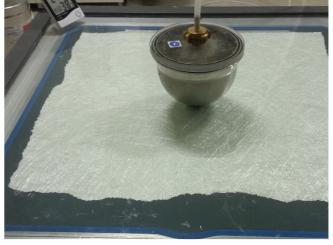
In response to this wind sector need, along with a number of customer inquiries, METYX Composites set up a technical project team in early 2015 develop capabilities new manufacture and supply heated mould tooling. The project has been a great success and heated epoxy tools are being manufactured by the METYX Composites Tooling Business Unit at the Manisa manufacturing facility in Turkey.

METYX Composites Technical Manager, Bülent Ohri, commented:

"This project was real challenge for us technically. The METYX Composites Tooling Business Unit has produced many conventional polyester GRP mould tools, but we faced new technical problems to manufacture heated epoxy moulds. find Not only did we have to suitable material solutions and effective heating systems and controlling temperature mechanisms, but we also had to work out how to effectively integrate heating elements throughout an entire mould, irrespective of its shape and size; dealing with curvature was a particular challenge!

After making several prototypes with different design and specification variations, followed by numerous trials, we were finally successful in developing a robust and effective solution. We now have the technical expertise and production know-how to confidently offer a reliable epoxy heated mould solution, not only for wind energy, but for other industries needing heated mould tooling."





Flow test for Metycore FS in Metyx lab

Customer trial

Company News

New Metycore FS (Fire Shield) RTM Fabric Meets EN 45545 'Fire and Fume' Railway Regulation

The EU regulatory fire safety standard EN 45545, first published in March 2013, is now the key fire and fume regulation for all European OEMs designing rolling stock or railway vehicles. In particular, manufactures looking to supply the trans-European high speed rail system must comply in order to meet the new EC Directives covering 'cross boarder' interoperability of passenger and freight trains.

EN 45545 comes into effect in 2016 as the European standard for fire, smoke and fume toxicity (FST). It repla ces all previous national fire regulations (NFF, DIN, BS, UNI), providing one European fire safety standard for materials used in railway vehicles; HL1 is the lowest pass level, with HL3 the highest rating in the current EN standard stated hazard levels. Material testing and gaining fire approval certification according to the new EN 45545 railway standard remains a major challenge facing the rolling stock industry. Composites producers using RTM (resins transfer moulding) and other infusion techniques for moulding FRP railway vehicle parts must produce composite parts with a fire retardant (FR) laminate system that has the reapplication and passes the strict FST regulation levels of this new EN standard.

In response to this rail sector need for new material solutions, METYX's Research & Development (R & D) department has now developed a new 'cored' glass fibre RTM fabric reinforcement product which meets the new EN standard for the fire protection of railway vehicles and helps convertors overcome closed mould processing difficulties often encountered with filled FR resins. The new product line, Metycore FS (Fire Shield) is a halogen free product, providing moulders with all the advan tages of the existing Metycore range, with additional fire retardancy (FR) properties which meet EN 45545 requirements.

To validate that the FR properties of Metycore FS meet this new EN standard, composite test parts were moulded using an ATH filled Walter Mader Nuvocryl FR series UP resin rein forced with Metycore FS, which were then submitted to an independent EN approved test house. The Metycore FS composite parts passed the new fire and fume test standard, achieving EN 45545-HL2 pass certification.

underwent a number of independent ISO fire tests, as well as the French building regulations fire tests: NF P92-501 /NF 992-501 Epiradiateur test Dripping test, where the Metycore FS reinforced Nuvocryl FR laminate system passed with an 'M1 - Non-flammable, no droplets' classification; the highest MO rating is only given to incombustible materials.

Gülnur Başer, R&D Project Manager of METYX Composites, stated:

We developed our new METYCORE FS range primarily for the rail sector to meet the new EN 45545 standard, especially manufacturers of locomotives and passenger cars needing lightweight fire rated composite parts that can be cost effectively manufactured by vacuum infusion, RTM and RTM light closed moulding. But Metycore FS is also suitable for other transportation applications and other markets, such as building and construction, where fire certification of FRP parts is also a key requirement.





METYX Composites Team Aroundthe World in 2015

JEC Europe 2015

(Paris, France) March 10-12

WindEnergy Hamburg 2015

(Hamburg, Germany) March 10-12

Composite Europe 2015

(Messe Stuttgart, Germany) September 22-24

Turk Kompozit

(Istanbul, Turkey) October 8-10

CAMX2015

(Dallas, USA) October 26-29

METS 2015

(Amsterdam, Holland) November 17-19

Wind Turbine Blade Manufacture 2015

(Düsseldorf, Germany) 30 November-2 December

Composite Expo

(Moscow Russia) February 25-27



Metyx Booth in Composite Europe 2015

METYCORE for Commercial Vehicle Hardtops

For over 40 years, The Dr. Höhn Group has served the commercial vehicle market, with its primary activity being the in-house manufacture of fibreglass (GRP) hardtops for pick-up trucks, as well as other GRP and plastic components not just for commercial vehicles, but also parts used for a variety of applications in the power, railway and shipbuilding industries.

Dr. Höhn has a factory in Ostroda, in northern Poland, where around 200 people are currently employed and managed by managing director, Kamil Macidlowski. The plant manufactures in the region of 12,000 fibreglass hardtops per year, which are produced by

traditional open mould GRP hand layup and the latest technology RTM Light (vacuum moulding) process. The Polish operation also has thermoforming production facilities used for fabricating plastics parts in ABS, HIPS, PE, PP and PA.

Since 1999 the Polish factory has supplied finished parts across Europe and globally to its extensive commercial vehicle OEM customer base which includes: Nissan Europe, Mitsubishi Europe, Volkswagen AG (Premium Partner status), and Isuzu Benelux.

Light RTM is the manufacturing process used to produce the MI DC

RH04 gelcoated fibreglass hardtop (for the Mitsubishi L200 pick-up truck), which is reinforced with a custom width METYCORE fabric.

Dominika Antkowiak, Technology Manager stated:

METYCORE RTM fabrics are specified by us as the preferred RTM reinforcement fabric for making high quality fibreglass hardtops due to is high drapability, rapid resin flow, and the excellent surface finish, with no print through on the visible gelcoat surface after demoulding.



METYCORE laying into the mould



Finished vehicle hardtop





Manufacturing of the race cars in Avitas facility in Pendik, Istanbul.

Avitas Motorsport Design with Confidence Using METYX Aramid and Carbon Fabrics

Avitas, founded in 1969, has grown to become one of the leading Automotive & Motorsport design engineering and manufacturing companies in Turkey. The company is based in Istanbul, where it has its R & D and engineering services teams, and a modern 12.000 m² ISO certified production plant.

In 2008, the Avitas Motorsport Business Unit was set up to design and produce unique racing cars under its own brands using the extensive in-house expertise and experience in automotive engineering design and new product development. Over the last seven years, Avitas Motorsport has successfully designed and produced five competitive models for a variety of international racing car events.

Avitas Motorsport's most recent project success has been with its 'SuperCar Lites' Rallycross racing model, which has permanent four wheel drive and is powered by a rear-mid 310 BHP engine. Its space frame, roll cage and body parts need

to combine high strength, stiffness and toughness with as low a weight as possible, but still keeping within the design and safety regulations stipulated for Rallycross competition vehicles.

The SuperCar Lites model 3800mm 1800mm long by wide, with a 2489mm wheelbase, weighing only around 1100kg (including driver). To achieve the lowest weight Avitas possible, the design engineers have used a range of high performance, carbon and aramid fibre reinforced advanced composite materials for all the exterior and body which interior parts, were manufactured usina woven carbon fibre and knitted aramid fibre fabrics from METYX Composites.

After completing rigorous tests during 2012, a SuperCar Lites car was professionally raced for the first time in the 2013 Global Rallycross Championship in the USA, then in the Swedish Rally and -cross Championship the following year. The success of the SuperCar Lites encouraged project has

international promoters and organizers from all around the world. In 2014, SuperCar Lites became new World race class Rallycross Championship, nowbeing raced thought the season in Portugal, UK, Norway, Finland, Sweden, Canada, Spain, Italy and Turkey. Avitas are confident that SuperCar Lites has a bright future being racedall over world in highly prestigious World and Regional Rallycross Championships.

Avitas Motorsport Director, Halid Avdagic said:

The main body of the SuperCar Lites model has been designed as one piece, moulded using METYX Composites carbon woven fabrics. For the hood, since it needs high impact resistance, we also use a METYX aramid knitted fabric. We

Composites reinforcement fabrics for all of the composite body parts fitted in our racing cars, which have worked exceptionally well under very demanding race conditions

10









TPI Turkey Grows with METYX Composites

TPI Turkey is part of TPI Composites, Inc., an independent U.S. multinational corporation, based in Arizona, which specialises in the manufacture blades and of composite wind structural composite products for transportation market. The company has a strong focus on using high-performance advanced composites materials and processing technologies. Today TPI Composites is located worldwide across eight TPI production plants located in United States, Mexico, China and Turkey, which manufacture lightweight, durable and highly efficient, composite blades for leading wind turbines producers such as GE, Nordex and Vestas.

TPI Kompozit Kanat Sanayii ve Ticaret A.Ş. has been producing wind turbine blades in Sasali, near the ancient city of Izmir on the Aegean coast since 2012. Since becoming wholly owned by TPI Composites, Inc. at the end of 2013, TPI Turkey has benefited from investments to expand manufacturing to meet growing demand from customers in Europe, The Middle East and Africa, and is now an established major supplier to the wind energy industry in these key export regions.

The TPI Turkey factory, located on a 220,000 sq. m site (22 Hectares), currently has 34,000 sq. m of covered production space. It uses modern

processing and assembly systems for composite wind blades production, including in-house expertise in fabricating precision tooling, and has established an excellent reputation as a reliable producer able to consistently meet the quality standards of its OEM wind turbine customers. METYX Composites is a key local supplier of reinforcement fabrics and core kits to TPI Turkey.

The future is looking good for TPI Turkey, with continued growth and further production expansion. A second TPI factory in Izmir is scheduled to open for production in late 2016 as a result of a multiyear supply agreement with Vestas Wind Systems A/S to provide blades for its V126 wind turbine.

Şenol Bircan, General Manager, TPI Turkey said:

"A strong cooperation between METYX and TPI is growing day by day, having successfully completed a number of important projects together. We have seen tangible **METYX** benefits from involving Composites to help us make continuous improvements in key areas such as: productivity, production quality, stock control and supply chain logistics. It helps that METYX is so local to us! We extend our thanks to the METYX team for all the valuable support we receive and the strong commitment to excellence. I am confident that our cooperation will continue to strengthen and that METYX Composites will increasingly become our key strategic partner for the supply of reinforcement fabrics and core kits"



The new TPI factory in Menemen, expected to be ready in 2nd half of 2016



A wind turbine by GE, a customer of TPI



A new wind farm in Turkey



Ceremony for the new plant. Minister of Economy Mr.Zeybekçi and Mr.Bircan.







DAMEN Water Bus

Modular Plug made by METYX Composites

Precision METYX Plugs for Damen Water Bus Modular Parts

Damen uses a modular system and standardized parts wherever possible in the design and const WaterBus ruction its range of of passenger ferries. This modular approach allows individual vessels to be assembled with a build specification that meets the needs of individual clients. By using standardized parts for the design layout and functionality in each module, the result is an assembly process with high productivity, enabling Damen to offer short production lead times for these make to order vessels.

The modular system used by Damen uses standard parts which have been designed and moulded using fiberglass, also commonly as FRP (fibre reinforced plastic), including the deck and lightweight hull structure of its Water Bus range. A vital first step is to make high quality, ac-'patcurately sized plugs terns'. which must have stable physical dimensions and a smooth surface finish. precision machined Plugs are then used to fabricate the mould tools subsequently used for moulding standardized FRP modular parts. METYX supplied more than

20 precision CNC machined plugs to Damen Shipyards Antalya for the key modular part tooling needed for its Water Bus vessels.

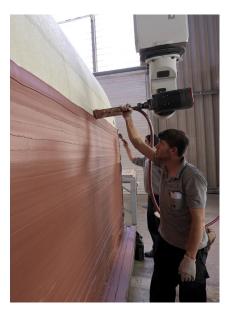
Building vessels using lightweight composite materials reduces fuel consumption over the lifetime of vessels in operation. This helps the Damen Shipyards Group meet its 'green' commitment to sustainable growth for people and the planet, in line stated its 'E3' with principles: Environmentally friendly; Efficient operations; and Economic viability.

Marko Pas, Business Development Manager - Composites:

"Damen Shipyards Antalya ordered more than 20 different plug segments from METYX for a variety of catamaran hull and superstructure modular composite parts; for the large parts, plugs needed to be supplied in sections and then fitted together on the shop floor. In total the finished plugs sections supplied was calculated to be in excess of 200 sq. m of CNC milled plug surface area. The CNC

milling was to a high level of accuracy, so assembly of each plug could be done quickly since plug parts fitted perfectly together. We took advice from the highly technical METYXplug specialists, who found ways to over come problems and provide efficient and safe plug solutions.

Damen operational The team delivery benefited from agreed schedules being met and regular communication throughout the project. The METYX team demonstrated responsiveness and



Application of epoxy paste for the plugs

Composite Material Solutions for Alen Yacht

With a 20-year heritage in yacht design and construction, Alen Yacht has established a reputation for innovation, stylish design and uncompromising build quality evoking the standards of a superyacht. This has been achieved by blending traditional marine craftsmanship with 'state-of-the-yard' boatbuilding technologies for the different materials used in production.

То maintain this hard-earned reputation, Alen Yacht has continued to invest in its yard in Istanbul with the latest design engineering and production facilities available. Recent investments have included a new advanced hull-engineering department and a purpose built fibre workshop complete with a pressurized fresh air system. shipyard and workforce in Istanbul traditional combines artisan with craftsmanship 21st century manufacturing systems and expertise in the latest composite boatbuilding techniques.

Alen 55 is one of three beautifully crafted models currently produced, measuring 16.8 m long and 4.8m at its widest beam, powered

800 horse power Volvo marine engines which provide a top speed of 35 knots. hull and deck of the Alen 55 are strong and very stiff constructions, yet tough and lightweight, having being manufactured to sandwich design fiberglass composite specification with a closed cell PVC foam core. All the composites materials and consumables are locally supplied by METYX Composites.

Hakan Abay, Yacht Master and Purchasing Manager, Alen Yacht:

We are very happy with the technical advice, product quality and overall service we receive from METYX Composites, which we depend upon to supply our yard in Istanbul. From both of METYX's factories in Turkey we get excellent service and on-time deliveries of the different types of reinforcements, PVC foam and consumables we use in our composites production processes.

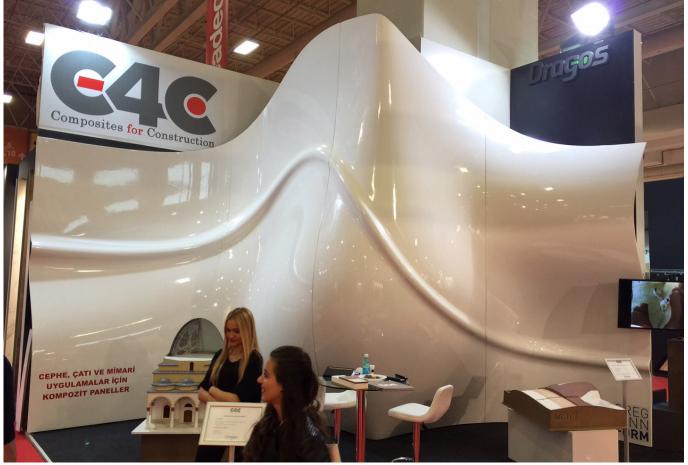








The first column installation on site for EMAAR being checked by engineers



The architectural form designed by Greg Lynn displayed in Dragos's booth at YAPI Exhibition

Dragos launching its C4C (Composite for Construction) product line

A prestigious Dragos C4C (Composite for Construction) produced part was showcased for the first time at the 2015 Istanbul Constrution Exhibition. The C4C part was a striking new composite façade designed by one of most influential living architects Greg Lynn, of GREG LYNN FORM, located in California, USA.

Today, Greg Lynn is recognised as a world renowned 21st Century innovator in redefining the medium of design with digital technology, who has led the way in the manufacture of complex functional and ergonomic forms for buildings using CNC (Computer Numerically Controlled) machinery.

C4C Using Dragos's new construction industry solution, and under the technical supervision of the American construction and composi tes specialist consultants Kreysler & Associates, the Lynn designed composite façade was successfully manufactured as one 35 m2 monolithic composite part, 7m long by 5m high and weighing 490 kg.

METYX Composites provided the complete solution package for C4C, not only manufacturing the plug and the

mould tool, but also produced the prototype for the composite façade.

The innovative design and sheer size of the façade clearly demonstra ted the versatility and virtually limitless design creativity that is possible for architects with composite materials. The imposing façade gained considerable attention during the fair in Istanbul and generated many enquiries and interest from national and international architects.

EMAAR SQUARE is an another example of a successful Dragos C4C project, where once again the METYX team provided the full package of composite materials, plugs, mould tools and moulded composite prototypes for the two structures in the design specification, with one of the parts having such a complex geometric shape that three different plugs and moulds were required to make it. For this project, one set of C4C composite parts were used to clad structural columns, with another set providing the architectural motifs around the columns. The columns and motifs can be custom designed and manufac tured for shopping centresand hotels. Istanbul based Dragos Construction

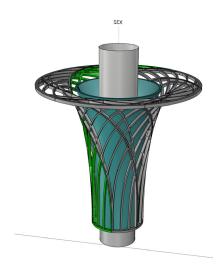
Co. launched its new C4C (Co posite for Construction) production capabilities in 2015. The C4C product line was specially designed to meet the demands of even the most challenging architectural projects.

Halil Beşkardeşler, Founder of Dragos Construction Co., said:

The EMAAR SQUARE project was technically very challenging. We had to work v ery hard and use the combined expertise of our solution partners, façade consultants and contractors to deliver what the customer wanted on time and to specification. The entire METYX team at every stage of production, from the plugs to the moulded finished parts, provided excellent support and service throughout. We really appreciated all their eforts to ensure the success of this demanding project."



First stage of CNC milling for Greg Lynn Form



3D data of the column cladding



Manisa Water Sports Club (MSSK) Medals Success in 2015

MSSK is a thriving watersports club, founded by Ugur and Tunç Üstünel, co-directors of METYX Composites, to provide training courses, facilities and team sponsorship for both able and disabled young people in the region with a passion for competitive swimming or water polo. 2015 saw some amazing medals success for three teams sponsored by METYX.



Swimming Championships for Physically Disabled in Turkey Held in Antalya

Disabled sportsmen and women from across Turkey gat hered in Antalya to compete in the 2015 Swimming Championships for the Physically Disabled in Turkey. The event was an ideal opportunity for the athletes to race competitively as part of the build up to the 2016 Paralympics Games in Rio de Janeiro.

Nine swimmers from MSSK won a total of 19 medals - 6 Gold, 5 Silver and 5 Bronze. An impressive 26 medals total gave MSSK 2nd place on the podium, winning the Silver team medal, narrowly missing Gold which was won by a very strong team from Istanbul.



Women's Water Polo Championship in Turkey

The first round of the 2015 Women's Water Polo National Championship League competition took place in Manisa from 2nd – 5th July. MSSK Women's Water Polo team came top of the 2nd league, with Inci Yılmaz gaining the prestigious 'Top goal scorer' title. The team's winning success earned them promotion to the 1st league for next season.



Men's Water Polo Republic Cup League

MSSK Men's Water Polo team competed in the Men's Water Polo Republic Cup, coming 2nd in the 1st league.

At the end of the competition, individual awards for 1st league team players were announced for the 2014 - 2015 season: Alican Çagatay, Captain of "National A Team", who also plays for the Manisa Water Sports Club, won two prestigious awards, being named "Most Valuable Player" and "Top Goal Scorer" having notching up a personal best total of 94 goals scored during the season. MSSK Oytun Akman, Halil Beskardesler and Alican Çagatay were once again in the top squad of the season for 2015.

Automobile Robot and Energy Team (ORET)'Green' Energy Student Racing Cars

Founded in 2005 by the Faculty of Engineering at Gaziantep University, the Automobile Robot and Energy Team (ORET) has given students from across the engineering departments the opportunity to work on exciting and challenging renewable energy alternative fuel vehicle projects. This has included designing and manufacturing a variety of hydrogen-powered, elect ric and solar powered concept cars. By 2007, ORET started to race its alternative energy concept vehicle designs at international interuniversity competitions specially organised for engineering student teams.

A key racing event in the ORET calendar is the annual competition organised since 2008 by TUBITAK (The Scientific and Technological Research Council of Turkey), where the team has won several special awards over the years. Universities from all over the country come to the Izmir Pinarbasi

race track to compete in this alternative energy vehicle challenge, which has two car race categories for specific vehicle power source technologies: TUBITAK Formula-G Solar; and TUBITAK Hydro mobile, for hydrogen-powered cars.

"Hidrofistik" is the latest hydrogen-powered vehicle to be developed by ORET. To maximise the power to weight ratio, ORET incorporated carbon composites in Hidrofistik's design, inc luding a very lightweight carbon fibre reinforced plastic (CFRP) monocoque body. METYX Composites supplied the team with all the carbon fibre reinforcement fabrics used to mould the CFRP parts.

Yunus Cevahir Korkmaz, ORET Captain said: "Since 2005 ORET has successfully represented Turkey both at home and abroad in different race categories, which will continue in the future. It is a fantastic learning experience in engineering and teamwork, as well as

being a lot of fun for the students who work on an ORET project. We are extremely grateful to all the support we get from team sponsors like METYX, which make it all possible."

Gaziantep University is a state research university located in Gaziantep, Southeastern Anatolia, in Turkey, with a strong emphasis on scientific and technological research. The Faculty of Engineering consists of nine departments, now including 'Metallurgy & Materials' and 'Computer Engineering'.



Yıldız Technical University Wind Energy team Supported by METYX Composites

The Wind Energy team from Yıldız Technical University, which is acknowledged to be a leading technical university in Turkey, competed against nine other rival student teams in 'Racing Aelous 2015', held in Den Helder, The Netherlands. The Yıldız Wind Energy team's wind powered vehicle design won the Special Award; the winner of Innovation this converted award for technical innovation is chosen each year by a distinguished panel of judges who attend the event.

Racing Aelous is organised by the

foundation Wind Energy Events (WEE). The race has taken place annually since 2008 and has been held in both Denmark and the Netherlands. This international student team event has now become one of the world's four largest sustainability energy races for wind powered vehicles.

METYX Composites has provided the Yildiz Technical University Wind Energy team with core materials and vacuum consumables to manufacture the latest design of its wind powered vehicle, which will be ready to race in 2016, and is proud of the team's accomplishments in designing and building new vehicles

powered by sustainable energy.

All at METYX wish the Yıldız Wind Energy team the very best of luck for Racing Aeolus 2016.







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