

#### **GF** Linamar expansion

A new die-casting module is expected to bring new impetus to the automotive market > 10

#### Ball valve 546 Pro

The leading product from GF Piping Systems regulates the flow rate in many industries > 20

#### Lean management

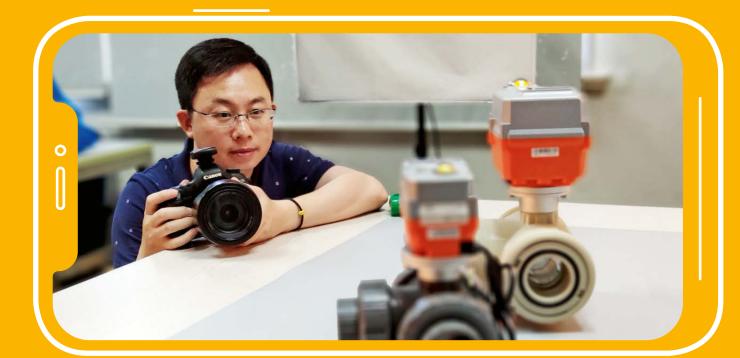
CEO Andreas Müller believes in lean processes and continuous improvement > 28

## HELLO!





Lei Ley 10:00 a.m.











Tamara Sommer Pontresina (Switzerland) 28 June 2019, 10:00 a.m.

## JOIN IN AND WIN!

What are you doing on 9 October 2019 at 4:30 p.m. local time?

Send your snapshot with 'Hello!' in the subject line and a short description to:

## globe@georgfischer.com

All entries will be included in our competition on page 40.

### CONTENT 3.2019

#### MADE IT!

#### **GF Linamar is Expanding**

The new 1B die-casting module is being put into action after just nine months of construction. 10

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#### To the Limit and Beyond

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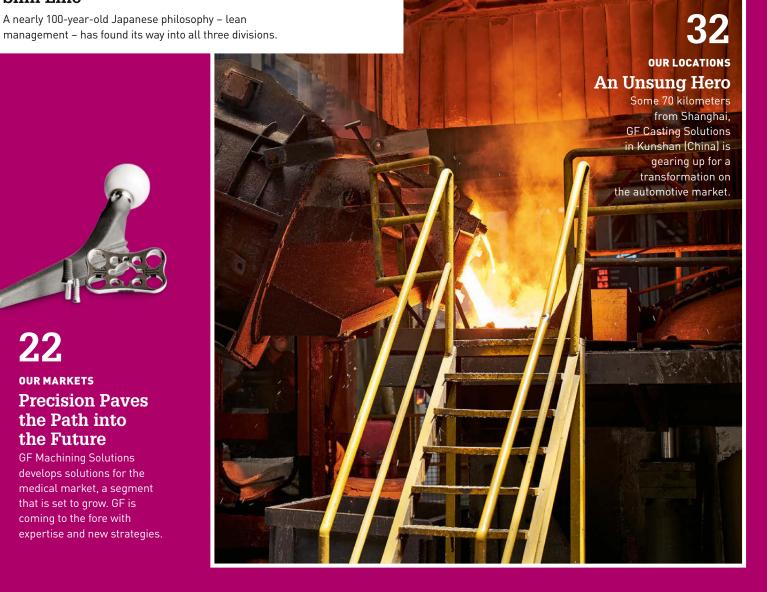
Ann-Charlotte Richter is a true globetrotter. She lets us in on her top tips for Chicago (USA), where she has lived since 2017. 38

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A DAY WITH Always On Site for Her Customers

Senior Sales Engineer Thuat is constantly communicating with existing and potential customers and is always on the go in and around Ho Chi Minh City (Vietnam).



## **EDITORIAL**

## **No Distance** Is Too Far

#### Dear colleagues.

Postcard fans like myself will be familiar with the Japanese saying "No distance is too far with a friend by your side." It's clear why it enjoys such great popularity – it's because we overcome challenges easier together, especially those that we would never have dared to do by ourselves. What an incredible feeling!

We at GF want to keep our pathways and processes as streamlined as possible with lean management, an approach that depends on us all. When was the last time you thought: "This could be done more efficiently"? These are exactly the type of thoughts that are central to lean management. They are the baseline for us learning and improving together as a team. You can find out about how "lean" we at GF are already today from page 28.

One example of successful teamwork comes from GF Linamar: In just a few months, our colleagues in the USA got a new module on the road (from page 10). The story of our cover hero Robert Volland is also amazing. Six years ago, he took part in his first extreme obstacle race with a friend. Today, he participates in some of the toughest races all over Europe and knows for sure that "Some obstacles can only be overcome together" (from page 12).

We also put this Globe together as a team. Thank you to all who participated or contributed to this issue. We're always happy to receive feedback or ideas for topics by e-mail or even by postcard!

I hope you enjoy reading this issue.

Lena Koehnen Project Manager Globe





#### **OUR MARKETS**

#### **Precision Paves** the Path into the Future

**GF Machining Solutions** develops solutions for the medical market, a segment that is set to grow. GF is coming to the fore with expertise and new strategies.

## **IN BRIEF**



The new Biel headquarters span 17'000 square meters for production, assembly, and offices.

## Divisional Headquarters Inaugurated

GF Machining Solutions opened its new headquarters on 13 September 2019. The division consolidated the Swiss Milling and Laser production in Biel (Switzerland), and with the former Nidau, Ipsach, and Luterbach sites. The new location offers space for 450 working places and houses a modern research and development center. In the so-called Demo Center. customers and visitors can experience the technologies and products of GF Machining Solutions up close.



# Plant Expansion in India



In addition to the new production hall, a new access road, areas for pipe storage, and a new employee building will also be constructed.



In India, the demand for infrastructure facilities for gas and water distribution is growing strongly, so products from GF Piping Systems are highly popular. To meet rising demand, the division is expanding the Ratnagiri site to include a production hall with 1'000 square meters of floor space. The new building will accommodate additional injection molding machines. The first customer orders have already been placed. Construction is expected to be completed in the first quarter of 2020.

## Award-winning Hycleen

The jury behind the Red Dot Design Award has recognized GF Piping Systems for its Hycleen Automation System. The division received an "Honorable Mention" for this product, which impressed the 25-member jury with its well-designed detail settings. The Hycleen Automation System is a new control system designed for controlling, monitoring, and logging drinking water installations located in sensitive environments, such as hospitals.

# Ideas from the Technology Center

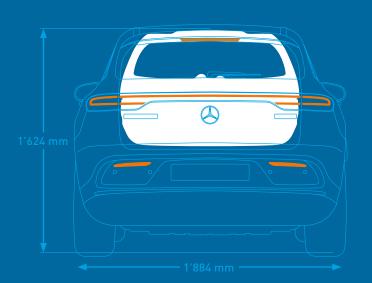


In the spring of 2019, GF Piping Systems opened a new section of its technology center at the Schaffhausen site in Switzerland. The new "Technikum" allows the division to implement ideas and innovations from the areas of material and technology development, production and development, and process technology. Focus areas are injection molding, compounding, and Industry 4.0. The results will be made available to all companies of GF Piping Systems.



More pictures and videos on the news in brief at globe.georgfischer.com

## PRODUCT IN FIGURES



# 1'032

millimeters - this is how high the rear wall door of the Mercedes-Benz electric SUV EQC is. GF Casting Solutions. traditionally a first choice supplier of large and lightweight structural parts for passenger cars, started building its first SUV component at the Herzogenburg plant in Austria in April 2019. The rear door frame is the largest tailgate ever produced by GF Casting Solutions; the models for station wagons are 20 centimeters smaller on average. It also sports a very thin (3-millimeter) wall. It is the first rear door frame for an electric car – in line with GF's strategy to offer European premium manufacturers lightweight solutions for their new models with electric drives. Beyond the rear wall door's dimensions, the EQC stands out with its rear light designed as a continuous light band. This feature must be taken into account when making the mold. Plus, for the first time, a new quality control technology for production is being tested. After casting, the tailgate is scanned and optically measured. A computer compares the data with a digital geometric model to evaluate the quality.

Component weight: 7.2 kilograms
Width: 1'237 millimeters
Height: 1'032 millimeters
Depth: 203 millimeters
Production time per unit: 28.5 minutes
Production machine: die-casting machine
with a clamping force of 4'400 tons

#### **Planned** Site Relocation

In response to changing market conditions, GF Casting Solutions is relocating around 300 jobs from Werdohl (Germany) to Romania and Austria. In line with its strategy, GF is also planning to divest the iron foundry in Herzogenburg (Austria). This finalizes the strategic withdrawal from iron casting in the automotive sector in Europe, which began in 2018. ■

#### Breaktrhough with **Spark Track**

The international Swiss Prodex trade fair described a new technology from GF Machining Solutions as a "breakthrough in EDM wire cutting machining." This proved reason enough to present Spark Track with the Prodex Award 2019. The Intelligent Spark Protection System (ISPS) reduces the risk of wire breakage and increases the productivity of wire-cutting EDM machines by up to 25%. ■





Cause for celebration: With a speed of 252 km/h, the Swiss student team's pod won the silver medal in the finals of the Hyperloop Pod Competition.

### **Cool Pod**

In 2019, the Swissloop team of ETH Zurich took part for the third time in the Hyperloop Pod Competition initiated by Tesla and SpaceX founder Elon Musk. As the main sponsor of the Swissloop team, GF Casting Solutions developed a cast component for cooling the powertrain

of this year's pod. On 21 July 2019, the team launched its pod along the competition test track in Los Angeles - and finished in second place. The Swissloop team also received the Innovation Award from SpaceX for its linear induction motor and inverter. ■



## **TWO POINTS OF VIEW**

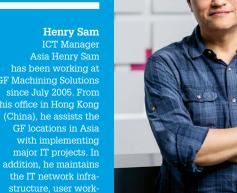
## What keeps you focused on the most important aspects of your daily life?

Every day, I receive different kinds of enquiries and tasks concerning the IT environment at GF. Most of them are related to a single user, but sometimes there are problems affecting the whole office or a business application. Some of the assignments can take months to complete.

Handling all these tasks immediately is almost impossible. Therefore, prioritizing them is very important, which I do based on the following rules: First, I write everything down in a detailed todo list. I also apply Habit 3 (first things first). That means, I evaluate my priorities and, most importantly, I accept that sometimes it is ok to say "no."

My colleagues and I in the IT support team often need to solve problems very quickly. If possible, I finish what I can finish right away and then set up 'deadline flags' in my Outlook calendar for the remaining tasks.

If we cannot solve a problem on our own, we request support from our external IT partners. One of the challenges is working in a team distributed across the globe and different time zones. As our IT partner is located in Europe, sometimes we need to schedule calls in the evening or at nighttime in Asia. This can be rather challenging at times, but I derive a lot of satisfaction from reaching our goals.



stations, and servers





I work closely with the Head of Business Unit Americas and all related Business Units, SAP, sales and marketing coordination. When I work, I focus completely on my tasks. I start by putting my thoughts in order and by getting a good understanding of what I need and want to accomplish. I define my priorities and think about what result I plan to achieve for each task. A rule for myself: Take ownership and follow through, focus on one thing at a time, and make sure I finish what I have started with a great sense of urgency and flexibility.

Time is our most valuable commodity, and without organization and setting priorities, it is easily wasted. The keys to the way I work are my abilities to keep myself organized and then apply that to everything I do. Communication is also essential to obtain and deliver results. Every communication tool is important, and I firmly believe that you can't simply exchange one for another. Also, communication is a two-way street!

When I am with my family, I focus on them, listening, doing things for and with them, connecting, and building memories. I also invest time in myself; a good balance is important for a healthy life, according to 'sharpen the saw' from Stephen Covey's 'The 7 Habits of Highly Effective People. ' ■

has been with GF Piping Systems for almost 19 years, currently as Sales & Marketing Head of BU Americas Executive Assistant in Irvine, California (USA). She previously held the position of Export Manager for Latin America, where she managed the Latin America business from the GF office in Tustin, California (USA).



More pictures of Henry Sam and Beatrice Weber at globe.georgfischer.com



#### MADE IT!

NEW MODULE ADDED IN MILLS RIVER

# Expanding the Value Chain

**Joint venture GF Linamar** is on schedule to complete an expansion to its plant in North Carolina (USA) this autumn. This will help drive further growth in the North American automotive market.

t is big, it was built fast, and it will be highly productive: Module 1B, a new extension at the die-casting plant in Mills River, North Carolina, is on track to operate at full capacity less than a year after breaking ground. The expanded facility was built after an order for 700'000 die-cast components per year from a major American automobile manufacturer came in. Its completion represents another milestone for GF Linamar on its way to becoming a dependable source for quality, ready-to-mount die-cast parts for the American automotive industry.

#### How it came together

GF Casting Solutions and Linamar formed the joint venture GF Linamar back in 2015. An ambitious plan was launched to combine Linamar's know-how on the North American automotive parts market with GF's die-casting expertise, together becoming a new parts supplier in the industry. The joint venture opened a production site in 2017.

The idea for an expansion of the plant was all part of the initial plan. Construction of Module 1B finally got started at the beginning of 2019. While casting is still done in the original plant, the new space adds further capacity to machine and assemble more than 700'000 parts per year - an impressive average of one new ready-to-mount part every 28 seconds. That required good planning and execution before the work began. "Our motto is that we want to be 'Best in Cast'," says Senior Program Manager Jürgen Steinberger. The plant expansion results in a more capable and agile facility, allowing GF Linamar to work closely with customers to design and produce ready-to-mount die-cast parts for the American market eco-

nomically. "Our Maintenance Manager Bill Penn and Manufacturing Engineer Mike Morgan were integral to the expansion," says Steinberger.

#### Close collaboration

Bringing together two companies from different continents, like GF Casting Solutions and Linamar, can entail certain challenges. "This was only possible because of the great team we have," says Steinberger. The sales department was key to making the expansion possible - the economic rationale for expanding the facility was provided by the deals they closed. The colleagues responsible for safety had to manage a lot of requirements that are specific to the US market. The people in charge of Module 1A designed Module 1B before transferring their plans to the current team. Several other departments, including Engineering and Product Design, also had a hand in the successful project. "Sometimes it was a challenge just to coordinate – we had many employees from two companies spread over several time zones." GF Linamar has seven die-casting machines in operation, three in the process of being installed, and two further cells are planned at present. The site could even see future expansions – and Jürgen Steinberger and the rest of the GF Linamar team will be



#### STRONG PARTNERSHIP

GF Linamar is a joint venture between GF Casting Solutions and Canadian manufacturing expert Linamar. The light metal plant in Mills River (USA) produces lightweight aluminum and magnesium components for the automotive industry. The addition of Module 1B as an extension to the plant is a further milestone in the partnership.

#### **MODULE 1B IN FIGURES**

7'360 tons

3'127<sub>m²</sub>

used to build the new module

**Area** covered by the new module.

150

**Number of people** involved in the construction of Module 1B.



More pictures at globe.georgfischer.com



meters high, and runs almost to the end of the world. His energ

reserves are almost inexhaustible - a skill that also gives the sale

engineer a special edge when it comes to acquiring new customer

the body says, 'I can't go on, I can't take it anymore, 'I say, 'Yes, I will carry on.' To pull yourself out of these mental holes and to motivate yourself over and over again - that's what OCR is all about, in addition to being in excellent physical shape, explains Robert.

Only a few years back, in 2012, things looked quite different for him: Despite his average height of 1.74 meters, he weighed almost 90 kilograms. "When I was a teenager, I did kickboxing for a few months, before >



#### **PERSONAL DETAILS**

Name: Robert Volland Position: Sales Engineer Division: GF Machining

Solutions

Location: Schorndorf

(Germany) Part of GF since: 2015



### OBSTACLE COURSE RACING FACTS

OCR originally developed from military pentathlon.

The first OCR race, the Tough Guy Race, took place in the UK in 1987. The race is considered one of the toughest races, alongside Getting Tough — The Race, Iron Viking, and Ultra Viking.

Popular TV adaptation of OCR races: the parcours challenge show Ninja Warrior.



> my studies and family put an end to that. Sport was out of the picture back then," he remembers. One morning he looked down at himself and thought, "Oh my God!" His shirt was stretched to the point where a single deep breath would have sent the buttons flying. "This was my personal turning point," says Robert. At that point, he decided to take action and get active.

#### The starting signal

He started out by going on mountain bike tours. But at the end of 2013, Robert saw a report about the German 'Braveheart Battle' on television, an extreme cross-country race with an unusually high count of meters of elevation and tough natural obstacles. "I knew that was exactly what I wanted." A phone call with his friend Matze was all it took to jump start him into the OCR scene: "Matze had signed up for the battle before me. I had no choice but to follow his lead," says Robert. Together they started training for the race, wearing green T-shirts that showed Hulk from the Marvel comic universe. However, Robert does not have much in common with the roaring, uncontrolled mound of muscles. He is all about being straight-forward and focused - characteris-

tics that are as helpful in sales as they are on the course.

#### The strategy

The trained toolmaker, who also studied business economics, has been working as a field sales engineer at GF Machining Solutions in Schorndorf for four years. He sells, among other things, wire and die-sinking EDM machines, Milling machines, and Laser systems. The family man has his office in Bebra, about 150 kilometers northeast of Frankfurt am Main (Germany). What may seem like a job as a lone fighter, due to the distance to Schorndorf, in reality requires the permanent exchange of information and constant teamwork. The same holds true for OCR: "There are always obstacles that can only be overcome together. For example, there is no escape from a three meter deep mud pit alone. But what makes OCR so special is the racers' comradeship: "The runners help each other." This means literally giving others a hand, providing a foothold to overcome an obstacle, or even human pyramids.

Robert organizes customer care and acquisition in Bebra. In his home office, he draws up offers and concepts. "You have to fight for every single order and adapt indi-

vidually to each customer. Again, this is in many ways similar to OCR, where I focus fully on the track and its challenges. In both cases I have to answer similar questions: What is important to the customer? Which strategy makes sense for the next course?" If all goes according to plan, he is rewarded with closing the deal at work and with a medal in the world of sports.

#### Iron will

'Getting Tough - The Race' is set in the German state of Thuringia. It is Robert's favorite race and is considered the toughest obstacle course in Europe. It always takes place in December, with starting temperatures around O degrees Celsius. Because of the season, there are several ice-cold water obstacles. "It's extremely tough, and you might actually have a near-death experience during the race," he says with a grin. Neoprene is frowned upon, but a bathing cap is a musthave when diving. Cramps? Well, that's just part of the game. "Sometimes my cold fingers won't be able to hold the cup anymore at the refreshment station. At the finish line, I can barely get out of my clothes on my own." So why on earth does a person willingly suffer such an ordeal? "It's the ambition to cope

with extreme conditions – ever faster, tougher, and further. The feeling of happiness at the finish is indescribable," Robert reveals.

There are videos on the Internet about events such as the ones where Robert tortured his way to the finish line. The videos are reminiscent of TV documentaries on the training of military special forces. "I successfully survived the Iron Viking races in Wächtersbach (Germany) and Nijmegen (Netherlands)," Robert proudly points out. Over 42 kilometers, a maximum of seven and a half hours, and over 120 obstacles. "Participants like me, who run the long distance in this race wear special vests. They have priority at all obstacles over the short-distance runners, because if the intermediate times or the finish time are not reached, the respective long-distance runner will be disqualified."

#### The training

OCR brings out the perfect athlete in you, says Robert: "Strength and endurance, speed and toughness." To stay in top condition, the sales engineer therefore likes to run mountain cross, sometimes 35 kilometers and more, mostly on Sunday morning. He interrupts the running rhythm again and again,

#### FACTS ABOUT ROBERT

Robert Volland's favorite contest is Getting Tough – The Race in Thuringia (Germany).

His last race was the **Ultra Viking** in Warstein (Germany)
in September 2019. There he
had to brave a running trail of
more than 60 kilometers,
roughly 3'300 meters of elevation, and about 135 obstacles
– in less than 10 hours.

 $70 \, \mathrm{km}$ 

of running per week are on Robert Volland's itinerary – particularly when preparing for a race. Robert Volland is on the road a lot in his job. As a salesman, he travels almost 50'000 kilometers across Germany



"I want to cope with extreme conditions."

> Robert Volland Sales Engineer at GF Machining Solutions

doing knee bends, burpees, and sit-ups. In the gym, he builds his strength doing core units as well as with classical dumbbell and strength training. The correct balance is essential and fully depends on the upcoming event.

To date, Robert retired from a race only a single time. "I lay in the snow under the barbed wire and could move neither forwards nor backwards – the legs had simply shut down. I couldn't motivate myself anymore. So this was it, then." This defeat bothered him for a long time. So it was all the more important to get right back on his feet, analyze the event, and come back even stronger. "This is also reflected in the work we do in sales. If a customer ends up going to the competition, you have to understand why and learn from this defeat, while at the same time retaining the will to fight for the next order with the next customer. It goes on and on, and there's only one direction: straight ahead." ■

More pictures and a video of Robert Volland are available at globe.georgfischer.com



- 1. I would like to travel to:
- 2. Country living or big city flair?
- 3. Today on the way to work...



Christine Fink
Head of HR Germany
GF Machining Solutions
Schorndorf (Germany)

1. Hawaii.



- 2. As a nature lover,I prefer living in the countryside.
- 3. ... I observed the sunrise. A perfect start into the new day!



William Lewert Shipping/Warehouse Clerk GF Piping Systems Easton (USA)

- 1. Scotland.
- 2. Life in the countryside!
- **3.** ... I saw a man guiding a **family of ducks** off the road.





Georgiana Ungureanu Safety and Health Inspector GF Casting Solutions Pitesti (Romania)

- 1. Bora Bora.
- 2. Big city flair.



3. ... I realized that my wedding was precisely one year away and that I would be starting a family then.



#### Here are the new questions:

- 1. A vacation full of relaxation or sight-seeing?
- 2. In this place my creativity truly soars:
- 3. My first car was a...

Take part and send your answers along with a portrait photograph and '3x3' in the subject line to: **globe@georgfischer.com**All entries will be included in our competition on page 40.



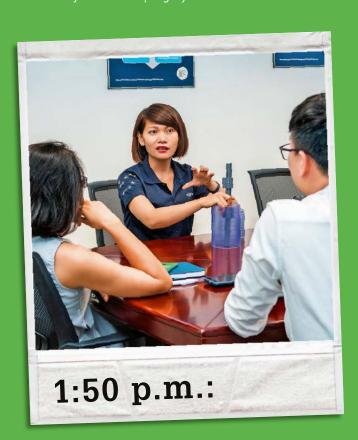
You can find further submissions to 3×3 online at globe.georgfischer.com ONE DAY WITH
PHAM THI MINH THUA

Name: Pham Thi Minh Thuat
Position: Senior Sales Engineer
Division: GF Piping Systems
Location: Ho Chi Minh City (Vietnam)
Part of GF since: September 2018



## Always On Site for Her Customers

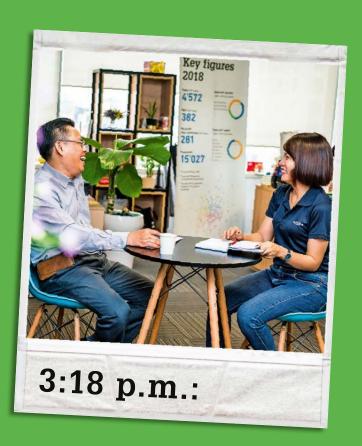
For Senior Sales Engineer Thuat Pham Thi Minh, no two days are the same. But there's one constant: She is always on the road, traveling across Vietnam to meet with customers, often directly on site. Her clients hail from a wide range of industries and require individual water treatment solutions. Keeping personal contact with them is key to her sales job at GF Piping Systems.



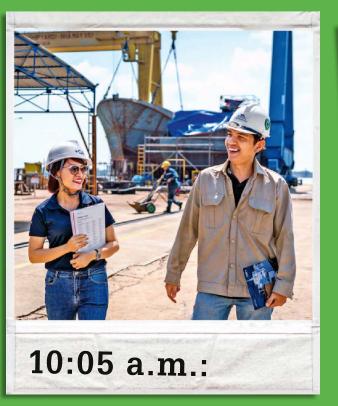
Back at the office, Thuat welcomes another customer: A shrimp farm operator who is active at numerous locations throughout Vietnam. Thuat presents the double containment system from GF Piping Systems, which is ideally suited for applications with particularly sensitive processes such as food production.



Thuat's morning coffee with her sales colleagues is important for a lively start into the day. Today, as always, they exchange the latest news in a relaxed atmosphere. Thuat and her colleagues are convinced that a cheerful working atmosphere is the best incentive for good performance.



Like every day, Thuat exchanges ideas with her supervisor Vu Dinh Cuong, the Country Manager of GF Piping Systems Vietnam. Together they discuss the status of ongoing projects, and Thuat reports on today's meetings with customers.



Thuat takes her scooter to drive to her first appointment at the Saigon river port in Ho Chi Minh City. She discusses upcoming major projects with Lam Nguyen from 'Piriou,' a company specializing in the construction of naval vessels based on European standards. GF supplies piping systems for the water treatment on board.



Even at lunch, Thuat maintains contact with potential customers. Today, she meets an OEM's planning team for wastewater management, a potential customer for wastewater treatment systems.

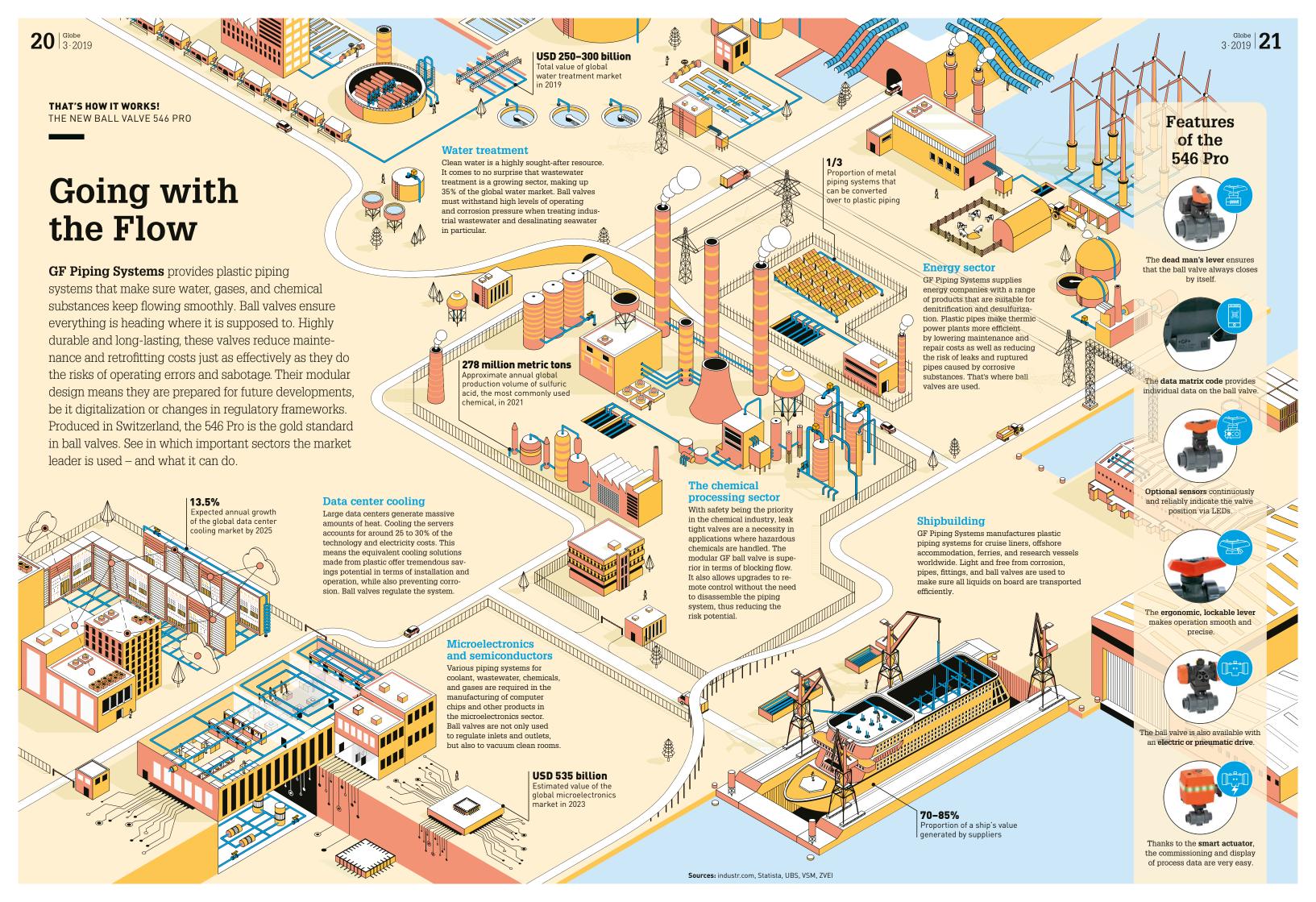


At the end of each working day, Thuat is already preparing for the next one. This is the first time Thuat is working alone at her desk today. Tomorrow, she will also have numerous customer appointments to attend. But that's exactly what she likes most about her job.



Arriving home, Thuat calmly dedicates herself to the most important people in her life. She spends every free minute with her husband Dang and her son Kelvin. What they do together is usually decided by the youngest member of the family.

More pictures of the day with Thuat at globe.georgfischer.com





OUR MARKETS
MEDICAL TECHNOLOGY

# Precision Paves the Path into the Future

**GF Machining Solutions provides the technologies medical technology manufacturers** need most to improve lives. Machining expertise and a new market strategy add up to promising growth in this segment.

ip replacements revolutionized people's lives in the 1970s. Like many orthopedic implants, however, they can weaken bones by reducing the load they bear, resulting in osteoporosis. Today, many implants are manufactured with Trabecular Titanium structures made on GF machines using 3D printing. These implants complement bones better, allowing normal, healthy loading and providing support while promoting bone industry – s customers' to offers the lat texturing an Industry 4.0. on their own. Quality r people's head often subjective, allowing normal, healthy loading and providing support while promoting bone industry – s customers' to offers the lat texturing an Industry 4.0.

Since the 1960s, GF Machining Solutions has developed solutions for medical technology (medtech) ranging from Milling to Laser texturing, manufacturing hip joints, dental crowns and plates for broken bones. GF Machining Solutions was originally known for its expertise in mold and die in this market – and Medical Segment Manager Erik Poulsen is building on that reputation. "We're looking to expand our reach and our technology profile," says Poulsen, who is responsible for guiding the growth of the medical segment at GF Machining Solutions. His main focus right now is on the growing European market, where GF has the opportunity to more than double its sales in the medical segment.

#### Connecting with the customer

GF Machining Solutions' Strategy 2020 laid out broad objectives for the medtech market, with a specific goal to increase the market share within its portfolio from six percent in 2018 to ten percent in 2020. A three-step strategy is being followed to meet these objectives: strengthening the share of the German medtech market, increasing the share of the orthopedics market, and equipping sales employees with an understanding of the rules and requirements of this

industry – skills that are needed to earn customers' trust. GF Machining Solutions offers the latest technologies such as Laser texturing and 3D printing – all built for Industry 4.0. But these tools are not enough on their own.

Quality matters most when it comes to people's health and medtech products are often subject to regulatory scrutiny. GF Machining Solutions has the opportunity to set itself apart from its competitors with the quality of the machines it produces, and this process can begin early on through collaboration with manufacturers at the product design stage. Serving an industry with such a dynamic regulatory environment has its challenges. "Our customers have to navigate complex regulatory conditions to succeed," observes Poulsen. "Supporting our sales engineers with the right tools, including presentations and clear responses to technical questions that are specific to the medtech industry, enables them to handle these complexities together with our customers."

#### Future outlook

Some exciting developments are also underway in the industry. Additive manufacturing (3D printing) is revolutionizing materials used in medical implants. Trabecular Titanium, for example, can only be made using 3D printing – but printing alone isn't sufficient. "In addition to offering printers, we enable customers to automate moving a printed device directly into Milling, along with data management and connection to a customer Manufacturing Resource Planning (MRP) software. We can connect all these building blocks and offer a full value chain" says Erik Poulsen.





#### **ADVANCED TECHNOLOGY**

Laser technology allows even curved surfaces to be precisely adapted. In addition, this technology and 3D printing enables GF Machining Solutions to respond to individual customer requirements. As one of the market leaders in implant manufacturing technologies, GF Machining Solutions is a sought-after partner for device designers and manufacturers.



#### Erik Poulsen

As Manager Medical Segment Marketing for GF Machining Solutions in Biel (Switzerland) since 2018, Erik has professional experience in industrial sales and marketing for highly technical products with a deep understanding of the medical device industry in Europe and North America.



# New Innovations on the Horizon

**From a one-man operation to the market leader:** Reichle Technologiezentrum uses GF Laser machines to texture precise, complex structures on injection molds, particularly for demanding customers in the automotive industry.

y father is a visionary," says Marco Reichle, who, at just 30 years of age, is co-CEO of Reichle Technologiezentrum GmbH in Bissingen, Germany (close to Stuttgart). The company's history began in 1981, when Marco Reichle's father, Volker Reichle, commenced engraving operations in the basement of his family's home.

Over time, Volker Reichle came to recognize that the future of his business would not lie in manual engraving; he realized that he should develop the company into a service partner for tool and mold making. That is why he procured CNC and laser engraving machines and incorporated laser welding into the company portfolio in 2001. "To this day, we can still remember the long line of customers in front of our building on the first day we offered that technology," says Marco Reichle. Customers from the tool and mold making industry had been eagerly anticipating the then-new technology, since it could work more precisely and reliably than TIG welding, which had been standard up until that point. Reichle has since become the

«We have been jointly developing technologies with GF since 2012.»

> Marco Reichle Co-CEO of Reichle Technologiezentrum

European market leader for laser welding in tool and mold making, and operates worldwide. Around 100 employees work in the company's five Business Units, which cover laser texturing and surface design, surface technologies, laser and TIG welding, laser and CNC engraving, and cast part repair using laser welding. The majority of Reichle's more than 1'000 customers worldwide come from the automotive industry – the company acts as a service provider for tools and molds and repairs serial cast parts. Reichle also serves customers in the cosmetics, packaging, medical, and toy industries.

Marco Reichle oversees the family-run business together with his father, Volker Reichle, and his sister, Marina Reichle. He appreciates the company's flat hierarchies and the fact that he can count on his great, efficient team. Maintaining personal contact with all of the employees is also very important to him, as he recounts. He adds: "Our short decision-making paths also allow us to implement risky, visionary ideas without having to discuss them for months beforehand."

The collaboration between Reichle and



Joint development: Nick Loreth, Product and Surface Designer, Bernd Martiné, Key Account Manager GF Machining Solutions, Marco Reichle, Co-CEO of Reichle Technologiezentrum, and Tom Hartmann, Laser Texturing Applications Engineer (from left to right).

> GF Machining Solutions began in 2012, after Volker Reichle attended Euromold in Frankfurt (Germany) a trade fair for tool and mold making, design, and product development. At that year's event, GF was exhibiting the LASER 1000 Laser texturing machines with Workpiece Changers (WPC). Volker Reichle was impressed and recognized the potential that this machine had for his company. He called his son Marco Reichle, and within the space of just a few days they decided to invest in this technology. This decision went on to have far-reaching consequences: Marco Reichle thereby ended his then-employment at an SME automotive supplier to begin working for his family's company fulltime, where he was tasked with building up laser texturing.

#### **Determination and energy**

"Surface texturing for the automotive industry is a complicated, complex process due to the extremely high requirements of the OEMs and the large number of materials and molds involved. It is extremely difficult to gain a foothold in this business," says Bernd Martiné, Key Account Manager at GF Machining Solutions in Schorndorf (Germany). However, Marco Reichle has been able to draw upon a great deal of energy and determination to lead this Business Unit to success. "Investing in the LASER 1000 was probably the most important factor in our company's success," he says. Although he was barely able to generate revenue during the first year, the demand on the market increased rapidly thereafter. "We were able to double this Business Unit's figures several years in a row," says Marco Reichle. Today,

### FACTS AND FIGURES ON REICHLE

Reichle Technologiezentrum also specializes in cast part repair: Since 2009, the company's employees have used specially designed laser welding technology to repair over 350'000 cast parts that had been designated scrap.

4'800 square meters is the size of the production facilities in Bissingen.

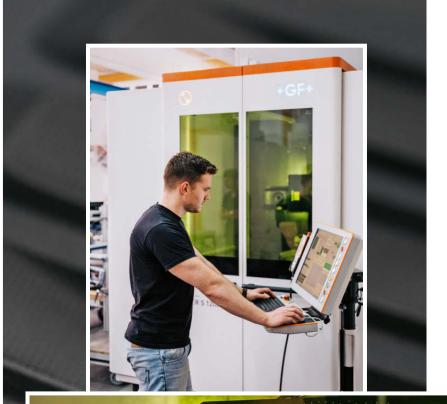
2'500
tools and molds are
textured at Reichle
using lasers each year.

machines from GF are in use at the Reichle head-quarters in Bissingen.

laser texturing makes up 40 to 50 percent of the company's total revenue. Marco Reichle decided back in 2013 to fully discontinue the then-conventional method for texturing surfaces, etching, and to only use laser texturing from that time on.

To this day, Reichle remains the only company in the world to have fully completed this technological shift - and it has had GF as a partner by its side from the start. "We have been jointly developing and refining technologies since 2012." says Marco Reichle. Before the new LASER 1200 Laser texturing machine came onto the market in 2019, GF and Reichle submitted it to exhaustive, jointly executed field testing. "Of course, we also carry out testing in the lab and in our Development department," adds Martiné, "but being able to test machines in daily operation with customers represents a major advantage." Other customers will also benefit from this, since potential malfunctions can be determined and then resolved in advance. Martiné appreciates the fair and reliable collaboration with the company and with Marco Reichle in particular: "Even at challenging points in the process, such as when something didn't work as expected, we always identified the problems together and worked with mutual understanding."

Like his father, Marco Reichle is also always thinking ahead to the future. "The requirements that we place on the machines certainly push the GF employees to the limits of what's possible sometimes," he says. Martiné appreciates Marco Reichle's ideas: "The collaboration occasionally challenges us, but it also always brings us a big step forward together."





G LG

The laser strategy for the customer is created – including all designs, mapping, and programs – at Reichle by an experienced team.

## "GF machines ensure higher-quality texturing on the tools"

Marco Reichle is co-CEO of Reichle Technologiezentrum GmbH. In this interview he talks about the innovative field of laser texturing as well as his company's cooperation with GF Machining Solutions.

#### Mr. Reichle, what is so special about laser texturing?

Laser texturing allows us to carry out tasks such as laser-texturizing richly detailed leather graining onto injection molds so that the grained plastic parts they produce look virtually identical to carrier components covered in leather. Thanks to lasers, we can also implement wholly new designs such as geometric textures, graduated graining, or matt surfaces. This will allow us to continue to meet designers' requirements in the future.

#### How does GF Machining Solutions support you in this?

We are known for acting aggressively and innovatively on the market with new textures. For instance, we set ourselves the goal of replacing our decades-old chemical etching with laser texturing. Thanks to the LASER S series of GF in particular, we can save a great deal of time to work more economically. Above all, the GF machines ensure a significantly higher level of quality for textures on the tools.

#### What do you appreciate about the collaboration?

We share the same innovative way of thinking. Our relationship has virtually become a friendship over our many years of strong collaboration. This allows us to jointly discuss and ponder a great deal about future cooperation opportunities or new services, whether these are tailored to us or more generally intended for the market. In the future, we will rely on GF as a partner, and will certainly develop more innovations together.



Since he was a child, Marco Reichle has been involved in the family business. He has been responsible for laser texturing there since 2012. OUR GOALS LEAN MANAGEMENT

## Slim Line

#### An almost 100-year-old Japanese philosophy shapes

industrial production. At GF, lean management does not just mean simpler processes or low inventory levels, but also that every employee bears responsibility for improvements. This also benefits the customers.



he late 1930s in Japan: Toyoda Kiichirō, Head of Toyota Motor that urgently needed raw materials are scarce. But Kiichirō turns these dire preneur recognizes that stock production is no longer an option and develops a new production principle: only produce what is ordered. Kiichirō's mantra becomes known as the "just-in-time principle." After the war, the Toyota engineer Taiichi Ōno further refined Kiichirō's method and published the collected ideas in 1978 under the title "Toyota Production System." Over the following years, his work attracted worldwide attention and found GF Piping Systems. its way into many companies under the catchphrase "lean management."

#### Creating value without waste

By now, the approach has found its way into many industries. The principle of "lean," which in this context can be rephrased as "streamlined" or "goal-oriented," is based above all on one core concept: create value without waste. This is also a key idea at GF. Each division has its own approach, but what they all have in common is the goal of increasing efficiency and optimizing processes through streamlining.

GF Piping Systems launched its first global lean initiative at the end of 2018 under the term "BOB." Ever since, its imple-

mentation has been making big progress across the division. By the end of 2020, all Corporation, is desperate. The GF Piping Systems production plants are to USA's policy of isolation means undergo a one-week rollout. An important principle of BOB is the elimination of "muda," which is Japanese for "waste." This applies circumstances into an advantage. The entre- not only to production, but also to all processes and activities at GF Piping Systems. "BOB is our way of jumpstarting the power of each individual employee, also in the office or in logistics, in order to satisfy the customer. First and foremost, lean management means having a holistic view of all areas and a fresh mindset for continuous improvement," says Frank Brandenburg, Head of Global Manufacturing and Lean Manager at

> "Lean management means to have a holistic view of all areas."

> > Frank Brandenburg **GF** Piping Systems

GF Machining Solutions, too, employs lean management as a holistic method: "It's all about applying this idea consistently and promoting understanding," says Thomas Weber, Head of Operations Milling Europe at GF Machining Solutions. Although the division is still in the early implementation stage, the move to its new location in Biel is expected to open up completely new lean possibilities. The aim is to eliminate the weak points that characterize comparable production processes from the outset.

#### **Embracing risk**

But doesn't every company try to be as profitable as possible and thus avoid waste? While this is true. GF's production operations previously focused on another aspect: minimizing risk. This often led to long idle times for components and products. In addition, this strategy of building up stock levels results in a view that strongly focuses on internal

The lean process, however, takes a wholly different approach. The offer should be tailored as individually as possible to the customer - preferably without wasting time by storing products before delivery. In order to achieve this, rather than basing the production volume on forecasts, it is aligned with the actual, visible order situation. Taiichi Ōno summarized this idea as the "kanban" principle. The Japanese term means "large scoreboard" and is intended to underscore the orientation towards visible orders. In fact. "It's all about applying lean management consistently."

> Thomas Weber GF Machining Solutions

Ono had such scoreboards that listed current orders set up in production back when he developed the concept.

A holistic view of the production chain is an important prerequisite for implementing this idea. The potential that this approach holds has been recognized at GF Piping Systems. "Before the BOB rollout at the beginning of the year, every department was trying to individually fine-tune their workflows as well as possible and achieve improvements in this manner," says Frank Brandenburg. "Since then, we've been looking at the entire value chain of our products from granules through to shipment to the customer." The focus has been shifting from reducing costs to minimizing cycle times. "If we consistently apply the lean philosophy, lower costs are a positive side effect," says Brandenburg, with a happy gleam in his eyes.

#### Stronger thanks to joining forces

In order for the just-in-time principle to work, potential errors need to be identified and minimized in advance. An important concept of lean management is that, even if processes have already been improved, this does not mean that now everybody can lean back. Instead, processes, in particular those relating to production, should be scrutinized constantly and optimized continuously. Production that can't be further improved? According to Frank Brandenburg, no such thing exists: "When a plant manager tells me that all key figures are 'just perfect,' it's hard to believe.

If the production is running well, you must encourage the system to identify the next error so that it can be optimized further." With "kaizen," GF Piping Systems brought another Japanese principle into the company for the BOB rollout. The core concept is continuous improvement through the participation of everybody. At regular kaizen events, employees and managers work together to develop ideas for how specific processes can be improved and then implement them right away. The sites decide individually how often these events take place. "The biggest change is the bottom-up principle," says Brandenburg. "In this way, our employees are not only actively involved in continuous improvement, but are also key driving forces and implementers."

At GF Casting Solutions, the lean approach has been around for a long time. It was introduced ten years ago and has been pushed ahead ever since. At the Altenmarkt site (Austria), a system is currently being introduced that focuses on lean management and operational excellence based on longstanding and successful manufacturing processes. It involves the optimization of production areas and process steps, the integration of autonomous transport systems, and digital monitoring. The system will be continuously optimized and introduced at all GF Casting Solutions sites worldwide in the future. "The initiation of this change depends above all on our managers," says Frank Brandenburg. This change process takes somewhat longer in areas where managers have a tendency to

keep a tight grip on the reins. In addition to increasing employee participation, a new culture is to be established that focuses on errors. Recognizing a problem is the first and most important step towards solving it. Accordingly, there must also be the freedom to address difficulties and mistakes openly.

#### New way of thinking

Employees first have to learn that they can and should shape their workplaces and processes themselves. This new way of thinking is normally adopted rather quickly. Managers, on the other hand, might perceive the change partly as a loss of responsibility or control. But Brandenburg is optimistic that change can be achieved. The highest leadership level is helping by strongly encouraging this course: "In terms of employee participation and a more open approach as regards errors, our new CEO Andreas Müller is an important advocate and a helpful role model for us all." Customer orientation and flexibility, employee participation, and a "culture of error" – all of these principles are recognized by companies like GF as effective maxims for action. After all, what the car entrepreneur Toyoda Kiichirō thought up in a time of crisis almost 100 years ago is more relevant today than ever.



**QUESTIONS TO CEO ANDREAS MÜLLER** 

Why is lean management important for GF? Lean aims to make us use our resources efficiently and improve processes continuously. This will strengthen our operational excellence, which will benefit not only us, but also our customers. It is important that we are always open to new ideas.

What is the most important aspect of lean for you? Continuous improvement – and this does not only apply to production or a management level. Every employee is involved, whether at the machine, in the warehouse, or in the office! We must all take responsibility and address possible improvements. The prerequisite for this is that mistakes are also addressed openly.

How do you intend to promote an open "error culture" at GF? It is important to me that we at GF maintain and further develop a culture of open dialog. If something doesn't work as planned, the greatest potential for improvement can usually be found right there. We must not conceal mistakes, but learn from them. Let us learn together continuously!

## From Japan to the Rest of the World

1934

Toyota becomes a player in the automotive industry. Toyoda Kiichirō, founder of the car division, discovers flaws in the traditional production process and starts to introduce a holistic approach rather

than focusing on isolated sub-

processes.

1936

Toyoda develops the first "Kaizen

1950

The engineer and production manager Taiichi Ōno begins to develop the Toyota Production System (TPS).

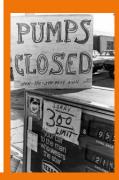
in production.

The Kanban principle is fully implemented at Toyota.

1962

a system that allows employees to 1970s

The global oil crisis and the associated scarcity of resources are increasingly drawing the attention of Western companies to the TPS.



1978

Taiichi Ōno publishes a book that presents his further development of Toyoda's ideas.



1992

car industry, production principles modelled on Toyota are being established, especially in Germany. Adam Opel AG introduces such a principle in 1992, followed by Mercedes-Benz MAN, Audi, and

1992

In the European The Toyota Motor Corporation first releases detailed information on their production system to the public.

2006

**Economists** Danie Jones and James Womack publish Lean Thinking," one of the most important standa works on lean



**OUR LOCATIONS**KUNSHAN (CHINA)



# Tale of an Unsung Hero

**GF Casting Solutions** is celebrating its tenth year in Kunshan, a prosperous city at the heart of China's car-making industry. A slowing auto market puts pressure on all players, but the team of the Kunshan plant is up to the challenge.

nen you think of cities that represent China's prosperty, Beijing and Shanghai most likely come to mind. But if you look beyond these model cities, you will find unsung heroes - hundreds of smaller cities that carry the true weight of the economy. Kunshan is at the top of the class: Located about 70 kilometers west of Shanghai, its GDP-per-capita is almost twice that of the nearby mega-city, thanks to the thriving manufacturing and renewable energy industries. Kunshan is also rich in history and culture, being home to Kun Opera, one of the oldest performing arts in Chinese

#### A presence in Kunshan for ten years

Kunshan's modern-day success is attributed to the well-developed transportation network and business-friendly environment. That is also why GF Casting Solutions decided to set up a production facility here over a decade ago. To tap into China's booming automotive market, the Kunshan iron casting plant was officially launched in May 2009, after two years of preparations and construction. Today, the core products of the site are ductile iron, which are used in car chassis,

powertrain and truck parts, as well as industrial applications. Over 300 GF employees work here, serving carmakers including Volkswagen, BMW, Ford, Honda, Saic, Changan and more.

#### Tremendous growth

"Customers trust our products and services because of our technological capability," says Wei Cui, General Manager of the site. He emphasizes that in addition to technical support from central R&D in Switzerland, the R&D team Asia in the nearby city Suzhou is also very helpful in terms of training employees and designing solutions that meet the increasingly complex customer needs, especially the lightweight requirements of car OEMs.

The plant features heavy machinery for melting, molding and core making, as well as sand mixers and shot blasts, so it can get hot and noisy. Its current production capacity is 60'000 tons a year, which is one and a half times more than what it originally started with, according to Wei Cui. "We experienced tremendous growth in the past decade and started to make profits as early as 2012," he says. The success of the Kunshan plant coincides with the market's hunger for car and truck parts. Between 2008 and 2017, car pro-



#### Jeff Wang

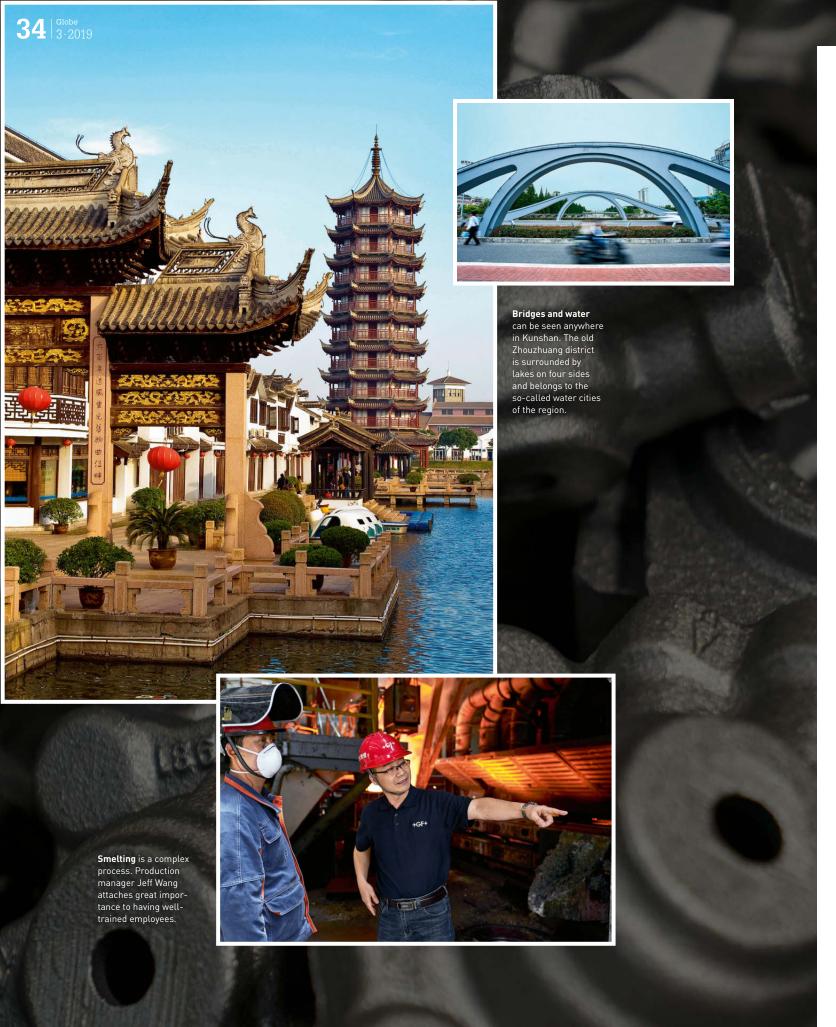
Wang is Head of Production at GF Casting Solutions in Kunshan. He joined the company nine years ago. For people who know him well, his pet phrase is that, "two things are important for me: one is enjoying work and working hard, the other is enjoying life and being with my family."



#### Franz Yu

Yu is Head of Maintenance at the Kunshan plant. He ensures that things go smoothly at the facility as well as in the production line. He finds the job very rewarding because he always deals with new issues, and the challenges improve the team's skills and confidence. In his spare time, he likes watching war films. He also loves taking his family on trips to different places around the world.







The cast components produced, such as steering knuckles, wheel carriers, control arms, or differential housings, are stacked in the main warehouse.

• duction in China more than tripled, making the country the biggest auto market globally.

#### A changing market

As the Chinese market nears saturation, coupled with an economic slowdown, the automotive industry is now facing a capacity glut. In 2018, car sales dropped 2.7 percent year-on-year, the very first time in almost three decades.

"We fell short of our 2018 estimate mainly due to the macro environment," says Wei Cui. Also, more and more manufacturers of high-end and electric cars are using aluminum alloys to replace iron, putting pressure on the company's market share. Electric car numbers in China rose to over 2.6 million in 2018, which is three times the level of 2015. However, its share of the total market is still less than 0.1 percent.

Although the process is gradual, Wei Cui believes that it is time to adjust the plant's product offerings to tap new opportunities. "In order to remain competitive, we need to expand the value chain of our products, which may include other solutions such as design, machining and assembly," Cui Wei says

As China tries to strengthen its industries, the focus on improving quality and energy efficiency is unprecedented. More and more carmakers are embracing lightweight designs, giving GF Casting Solutions an edge as the company has advantages in engineering such solutions, says Cui Wei. With the assistance of strong brand recognition and loyalty, he adds, the Kunshan plant is set to grow its market share. It seems safe to say that this unsung hero's tale is to be continued.

#### AT A GLANCE



**Location:** GF Casting Solutions in Kunshan (China)

**In Kunshan since:** 2009; the plant opened after two years of construction

Employees: More than 300

**Customers**: car manufacturers incl. Volkswagen, BMW, Ford, Honda, Saic, Changan

### **Production capacity:** 60'000 tons per annum

Competences: In-house model construction, computer-aided design (CAD) and manufacturing (CAM), delivery of ready-to-mount components, quality assurance in the analysis lab using three-coordinate measuring machines and other testing equipment

Market segments: cast components made of nodular graphite (spheroidal cast iron) used in passenger cars and commercial vehicles



#### Hans Yu

Yu is Head of Quality at the Kunshan plant. He handles product quality issues both internally and externally every day. He is dedicated to making customers happy and finds solving problems enjoyable. Yu believes in 'lean thinking' and wants the team to always put quality first. After work, he enjoys music and poetry. In face of the Chinese market slowdown, he stays optimistic and quotes the English Romantic poet Percy Shelley: "If winter comes, can spring be far behind?"



#### Houlin Yan

Yan is Head of Technical Department at GF Casting Solutions in Kunshan. He joined the company in 2008. Yan is responsible for tooling design and manufacturing as well as process development and optimization. He is an expert for low-carbon technologies and dedicates himself to developing new environmentally friendly procedures. In his spare time, he enjoys reading books and traveling with his family and friends.



More pictures at globe.georgfischer.com



## **Turning Waste** into Treasure

n a time when tapping on your smartphone can buy you almost anything, Lena Ho still enjoys creating things on her own. From cleansers and fertilizer to mosquito repellent and even shampoo, she is able to create those products using not much more than her kitchen garbage.

Lena, Head of Order Processing at GF Machining Solutions in Beijing (China), has been making enzymes at home since 2014. She puts water, a little bit of sugar, and ingredients such as fruit peels and vegetable leaves in plastic bottles to kick off a three-month fermentation process. During this time, Lena has to deflate the bottles a few times, as the reactions may create excessive gas. The result: enzymes that Lena can use for various purposes around

the house. "Traditional cleaning products like bleach are cheap to buy, but they may pollute underground water," Lena says. "Using selfmade enzymes instead is a great way to not only dispose of garbage, but also reduce the strain on our public waste management system."

Lena first learned the skills from friends who produce and sell enzymes professionally. Together, they even organize events to pour enzymes into local rivers, which helps purify the water. Though it is hard to keep track of exact results, Lena believes these events are a great way to promote environmental awareness and encourage more people to join. "I want to make as many enzymes as I can and give them to others. Also, I'd like to convince even more friends and colleagues to use enzymes at home—it takes time and effort, but it's good for our environment."



Lena Ho joined GF Machining Solutions eleven years ago. As Head of Order Processing, she is responsible for order management, product delivery, and the entire order business within the EDM sales organization.



For more images, visit globe.georgfischer.com

TAKE AWAY
EVERYDAY CYBER-SECURITY

## Always Online – the Secure Way

Whether at the office or at home, our life is becoming more digitized by the day. As a result, staying safe in this networked world is more important than ever. The following tips will help you protect against cyber risks. Did you know that...

#### ...YOU ARE NOT ALWAYS AUTOMATICALLY LOGGED OUT FROM WEBSITES?

Remember to always log off actively – for example, if you only showed your colleagues something on their computers for a short time and logged into your social media account for example. Of course, this also applies to your own computer.

#### energy whenever activated, and hackers in your vicinity can easily use it to hijack your device.

you don't need to use this function,

...BLUETOOTH IS OFTEN ACTIVATED AUTOMATICALLY?

This goes for most cell phones and laptops, even though Bluetooth is only needed in special situations. Whenever

...THERE ARE SIMPLE WAYS OF MEMORIZING

**SECURE PASSWORDS?** 

A secure password has at least ten characters including upperand lower-case letters, numbers, and special characters. If you change your passwords regularly, as recommended, things can get complicated. Here is our tip: Form sentences that have something to do with the respective application and the current month and then use the initial letters of each word as your password.

## ...A SOUND DOSE OF SKEPTICISM CAN HELP AVERT MAJOR DAMAGE?

The senders behind phishing mails are becoming more and more imaginative. For instance, it might happen that you receive a message that looks like it came from a colleague or even your CEO. In case of doubt, please check with them in person before sharing confidential data or opening unknown links.

#### ...MALWARE IS OFTEN INSTALLED BY THE USERS THEMSELVES VIA USB STICKS?

Hackers can easily get into other computers with USB sticks distributed free of charge. We often simply regard them as a nice promotional gift; but malware or spyware can self-install the moment you connect the stick to your computer.

### ...SOFTWARE UPDATES GREATLY ENHANCE IT SECURITY?

Most app and system updates come equipped with new security measures in addition to functional improvements. By always enabling the latest versions, you can help to significantly reduce the security risk.

**MY HOME** CHICAGO



JOIN IN AND WIN! Would you like to present your home to your GF colleagues?

If so, please send an e-mail with "My home" in the subject line to globe@georgfischer.com All entries will be included in our

The Chicago Riverwalk is a place where pedestrians can stroll through the city center undisturbed by car urban athletes use the promenade to stay in shape.



## Thinking Big and Building Tall

hicago is the "epitome of urban America." Famous personalities like Ernest Hemingway or Harrison Ford were born here. The Bulls, Michael Jordan's legendary basketball team, also have their home here. Rail bridges wind their way through street canyons, and pedestrians cause a hustle and bustle at the feet of gigantic skyscrapers – it's just like Europeans imagine a typical U.S. metropolis.

The decision to go to Chicago was an easy one. When it comes to new places, I'm like a chameleon: Adapting to a new environment comes naturally to me. That's why I felt at home here right away. So much, in fact, that my husband and I eventually bought a tight supervision, and every day we make the

Water is ever-present in the cityscape, and not only when the Chicago River is turned

green for St. Patrick's Day. There are countless swimming facilities, even right in the heart of the city. My insider tip: Take a walk along the Chicago Riverwalk. Hardly anyone knows this idyllic path by the water, built on former railroad tracks.

I was born in Leipzig (Germany), so the metropolis Chicago makes for a strong contrast. What I particularly like about this place is the mentality: The Midwest, which is where Chicago is situated, is known for its friendly people. I also appreciate the typically American way of doing things by trial and error. In many ways, our company Microlution is like a start-up. For the most part, we work without most of every opportunity. This makes the work for me, the only project manager on site, particularly exciting.



**Ann-Charlotte Richter** joined GF Machining Solutions in Geneva in 2016 as part of the Graduate Talent Program. Since 2017, she has been working as a project manager at Microlution in Chicago, where she tends to machines from submission of the quotation through to delivery.



**MORNINGS** 

**EXERCISING WITH BEER** 



During the week, I like to go to Bikram yoga classes in the mornings, while on the weekends I like to do something more unusual, like beer yoga – which is offered at Revolution Brewery, one of the many breweries here in Chicago. At the start of each class, each participant gets a can of beer that they use throughout for balancing and refreshment. After the class, we all enjoy a "post-shavasana" beer; we can choose from among 20 different types of beers.



One Day

in Chicago

**AFTERNOONS** 

GOLFING **DOWNTOWN** 

Alongside classic American sports - basketball, football, and baseball golf is also majorly popular in Chicago. There are a handful of public golf courses located directly at Lake Michigan. Golfing is special for its meditative quality, and the breathtaking views of the lake and the city that golfers enjoy make the experience even better. These golf courses situated right in the city offer natural ambiance and respite without requiring



a long car drive.



More impressions of Chicago can be found at globe.georgfischer.com



**EVENINGS** 

PIZZA OR **BURGERS?** 



Everyone who comes to the city should try the iconic Chicago deep dish pizza, which has a tall crust and lots of filling. I send people who've already tried that to Au Cheval in the evenings, a charming, rustic place where they can eat excellent hamburgers. However, as with all popular spots, the service takes a while; you use an app to get a number and wait in line. I have a hot tip: there's a smaller outpost, Small Cheval, nearby. You can only order burgers there, but you don't have to wait long for them

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The next issue will be published in December 2019; the editorial deadline is early October 2019.

# Take Your **Chance!**

Enter our competition for the chance to win an iPad Wi-Fi, Bose wireless headphones, or a JBL Bluetooth speaker. A prize draw will be held among all employees who send in entries for the sections Hello!, 3×3, Heart and Soul, and My home.

Send an e-mail to **globe@georgfischer.com** with the appropriate subject line. We look forward to hearing from you. The winners will be announced in the next issue of Globe.

#### Here are the winners of the last competition:

First prize: Tamara Sommer (GF Piping Systems in Switzerland)
Second prize: Georgiana Ungureanu (GF Casting Solutions in Romania)
Third prize: Thomas Bachmann (GF Machining Solutions in Switzerland)

Further entries which could not be included in the printed edition of the magazine can be viewed online at:

globe.georgfischer.com

Submit your entry by the start of October 2019.



iPad Wi-Fi
32 GB
8-megapixel camera
9.7" multi-touch display

Bose SoundSport





JBL Go2
Bluetooth loudspeaker
Waterproof

#### **Conditions of entry**

This competition is organized by GF. All employees of GF are entitled to take part in the competition. The winner will be selected by means of a draw held among all submissions that have been entered by the stated competition deadline. Cash payment, payment in kind, and an exchange of prizes are excluded Participants in the competition agree to their name being published if they win. Any recourse to legal action is excluded.

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