

HORANGE CHRONICLES Automation History



The performance of each individual increases or decreases the success of ifm. Each employee shares in the responsibility for the success of the enterprise.

extract from ifm's corporate philosophy



Acknowledgements

Thanks to all ifm employees, customers and suppliers who gave us their advice and help for the creation of ifm's company history. Without their support you would not hold "The Orange Chronicles" in your hands today.

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HORANGE CHRONICLES Automation History





CONTENTS

Foreword	
1969–1973	In the begining was the idea.
1974–1978	Foundation fever.
1979–1983	Roll it!
1984–1988	Investing in the future.
1989–1993	Yes I can!
1994–1998	New markets, new service.
1999-2003	Innovation offensive.
2004-2008	ifm is continuously growing
2009-2013	ifm 2.0.
2014-2018	ifm is changing – the world is becoming c
2019-2023	Climate-friendly behaviour for a secure fu

	-5
	19
	37
	49
	51
	73
	87
	99
	15
	33
digital	59
uture	79



Martin Buck (left) and Michael Marhofer, Chairmen of the Management Board of the ifm group of companies

FOREWORD

Dear Readers, dear Employees,

On 29 October 1969 the time had come: today's ifm group of companies was founded as ifm electronic geräte gmbh+co kg. The motivation was to do it in a different way than all the others - and better. In ifm's foundation year, success started with the invention of inductive sensors for 220 V.

Briefly before, our fathers, Gerd Marhofer and Robert Buck, had laid the foundation in Alsace where the "salesman" and the "electrical engineer" set up rolling mills and steel plants for a plant manufacturer. But they were not satisfied with this work. As of 1967 Robert Buck started to build his own sensors and circuitry in the bedroom of his flat in Tettnang. Based on Gerd Marhofer's idea, he designed an inductive sensor for 220 V supply voltage. So far no other company could do that "but Robert Buck was a fantastic developer. You almost had the impression that he could reduce his size and go through the circuitry", Gerd Marhofer remembers. This was the beginning of ifm's success story.

Together they set up a small range of initially four articles within a very short time. Success was not long coming: The first subsidiaries abroad

were founded as early as 1976. Over the years, a worldwide acting group of companies with today more than 6,000 employees and 145,000 cusdeveloped.

The book you are now holding in your hands tells this story that every single ifm employee has shaped decisively. It not only contains figures, data and facts but also personal memories and anecdotes. It was important for us that the employees told "their" story to make ifm's history tangible and to allow a historical overview of our company history. Customers, partners and companions also comment on the development and complete our internal views by their external view of us, the company and our way of working.

We can tell a lot of stories about how ifm is, but the typical ifm culture becomes tangible via these different perspectives. In one of his articles in the company history, Robert Buck describes something that is typically ifm, "Gerd and I have different characters. One of us is enthusiastic about sales, the other one about technology, so we were a good match. Keeping to the motto "open and honest", we

sorted out differences and didn't allow them to develop. This fortunate match also became the basis for a friendship." These two traits can still tomers in more than 70 countries has be felt in ifm's culture today. As ifm's history book shows, a culture we can be – and are – proud of.

> What has to survive every generational change is the culture of the company, i.e. their DNA. You can make many changes in a company, often have to do this, thus setting your own trends but you must not change a successful corporate culture as it exists at ifm.

In editing ifm's history, we tried to put this culture down on paper - for today, for tomorrow, in the long run.

We wish you much fun while reading ifm's history and look forward to continuing this history of success together with you.

Yours sincerely

Ozuk /

In the begining was the idea.

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i f m

Essen / Mai 1969 seit einigen Jahren konnten wir Erfahrungen mit Annäherungsschaltern sammeln. – Jetzt bauen wir die "Dinger" selbst. Ihre Probleme waren unsere Aufgabe. Daraus entstanden & Gerätetypen: efector 12 - Schaltabstand 10 mm Thyristorausgang 220 V 50 Hz 2-Leiter System efector 13 - Schaltabstand 10 mm Transistorausgang 24 Volt = 3-Leiter System 20 m Thyristorausgang 220 V 50 Hz

für messtechnik

ingenieurgemeinschaft



969 — 1 Cleff Syster on a

die Katze

Wir lassen

aus dem Sack

Robert Buck †, founder of ifm

Open and honest. I wanted to solve Together with Elmar Lindner, we problems with electronic means that other people did not deal with.

in sales for Pfister in Eckbolsheim fore the sales in Alsace. This company was my office Annelies second job as an electrical engineer Buck was foundafter working for PEK Elektronik for ed. I developed a good four years. There we met. the technology, Among other things, we together Elmar Lindner commissioned machines in rolling mills or steel works. After two years Annelies Buck, at Pfister I moved on to the company in turn, sold it Dr Klein in April 1965, where Gerd to the "ingenieworked as well.

In 1967 I started developing sensors Essen. and controllers in the bedroom and partly in the kitchen of our flat in Gerd Marhofer suggested develop-Tettnang, in the Karlstrasse. We gave ing an inductive sensor for a 220 V up using the kitchen as a workshop mains voltage for direct triggering of after devices hardening in the oven a contactor and if this was successful, started "foaming", which left the to found a new company to develop, oven soiled with cast resin. Baking cakes, electronics and cast resin just up the idea and after a while I sent don't match.

For the first time integrated circuits companies as a freelance engineer. appeared on the market. They en- We founded ifm when it became abled solutions for which Dr Klein clear that the sensor in a test tube still produced big and complex units functioned and there was a market with lots of tubes inside. With the for it. There wasn't much to calcuaid of the new operational amplifier late. Everything was shared success ICs I was able to find a solution that as well as failure . impressed the neighbouring Brosa company so much that they placed a Gerd and I have different characters. call order for DM 28,000 spread over me to continue.

wife Annelies went along with all this, supporting me in my "insecure friendship. self-employment" and seeing it as her task, in addition to doing the book- The ifm product programme initially keeping, to raise our children.

started development and production in a room of a rented flat. At that time I was a freelance engineer and At the time Gerd Marhofer worked not allowed to engage in sales, there-

> produced it and urgemeinschaft

für messtechnik" in Küntzelstraße,

produce and sell such sensors. I took him the first switch in a test tube. Until then I had worked for other

One of us is enthusiastic about sales, 1 year (at that time by far the most the other one about technology, so important order). This encouraged we were a good match. Keeping to the motto "open and honest", we sorted out differences and didn't It is important to point out that my allow them to develop. And the business partnership also turned into

> consisted of the IA inductive and the IB. We had the best two-wire system.



While developing a full crate monitoring solution Robert Buck received a notice from his landlord to guit the flat.

:1969

29 October: foundation of ifm electronic geräte gmbh+co kg.	Share capital DM 21,000. The Managing Directors are Robert Buck, Gerd Marhofer and Bernd Rüsing.	
	0	. 0



Olgastraße in Tettnang: the first home of the ifm production.

Birth of the brand "efector". Hard to believe: The first sensor housings are made of common plastic tubes. Two suitable tube plugs, at the front of the coil and at the back where the cable enters, close the proximity switch.

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Hans-Dieter Gesthuysen, patent attorney

Simple replacement. At that time the switches should not require a completely new installation but be used for existing installations. Back then this meant two-wire alternating voltage. So there were two wires and the cus-



tomers were only willing to use the new sensors if replacement was simple. If a completely new installation had been required, they wouldn't have replaced their electromechanical switches. This is why the twowire sensor was so important for ifm.



Jens F. Schulz, Rasselstein GmbH

A customer of ifm for more than 40 years. We could work well with Mr Marhofer, with his technology and his production. The most important thing was that existing problems were solved and that this finally led to success.



Interview with Dipl.-Ing. (grad.) Jens F. Schulz. formerly Rasselstein GmbH.

ifm starts in Essen in a 80 m² flat in the urban district Holsterhausen.





The first "headquarters" in Küntzelstraße, Essen in 1969.

At some point I thought: Why don't There was only one vote against it, but we succeeded in convincing idea of a flexible PCB was born. A that person. We then started with fundamental and risky decision, since the film technology. The entire prowe did not know if such a new tech- duction became fully automatic in nology would work as a long-term a relatively short time. We bought,

solution. The idea kept evolving as for example, the pick-and-place machines and converted them for our purposes.

one in the circle agreed that this was

would say, "Make it so!" Only then

would I devote myself entirely to film

Why film technology at all? I had the technology of the future and

management circles. At the same ifm started with film technology very early.

:1970

 6 April: ifm electronic is entered in the commercial register. ifm has 16 employees and achieves a turnover of

DM 800.000.

The inductive proximity switch "efector" is registered as a trademark.

1 September: foundation of a sales office for electronics under the name "Butron".

Robert Buck t, founder of ifm

been giving some thought to the

question of what would be the most

PCB was not a reasonable solution.

we use a flexible circuit board? The

it was our unique selling proposition.

I presented this idea in one of the

time, I stressed that I would only go

on with the film technology if every-

efficient way to produce sensors. A technology.

Gerd Marhofer, founder of ifm

Innovation in a test tube. Bernd day I called him! During our work for



could be more than happy. But instead of being happy he that we "whippersnappers" earned so much monev. So he wanted to reduce our com-

mission. I was on holiday with my mother-in-law when my boss called me and asked me to come to Han- the time and was also developing a over to give me a talking-to. After measuring transducer for Brosa in this phone call I wrote my notice. his rented flat in Olgastrasse in Tet-And then I phoned Bernd Rüsing. I thang. Soon afterwards, we received asked him if he felt like setting up a glass tube with electronic content. our own business. We simply said to And, believe it or not, it had exactly ourselves: When we can sell, we can the requested specifications. At that also produce on our own.

In November 1966, I founded the dimensions. But Robert Buck † was "ingenieurgemeinschaft für messtechnik" (ifm for short) with the sup- as if he could shrink to a tiny size port of my wife. Our first office was and slip through the circuit. Not in a flat in Essen that belonged to Bernd Rüsing. He said to me at the time, "If it takes off, I can join you tronic" was planned and founded in April and then we'll do it togeth- by the shareholders Robert Buck t. er." He then joined us in April 1967 and focussed on the design and October 1969. sale of electronic teaching materials while I concentrated on the design and sale of technology for industrial automation. At that time, Robert Buck † was not yet there, although I had known him since 1962, when he was head of development at the French company Pfister and I was already employed at the engineering firm André Kosmever. Pfister and Kosmeyer had joined forces to work on infrared sensors. However, we weren't in touch after that. Until the

Rüsing and myself sold proximity "ingenieurgemeinschaft für messswitches for the engineering firm technik", one product had evolved Kosmeyer. And we were so success- in the field of automation that was ful that we two alone achieved so frequently requested in huge guanmuch turnover in the first year that tities: the "mechanical limit switch". actually our boss This stimulated my imagination because "inductive sensors" already existed, but only for DC voltage. The limit switches were intended for use with AC voltage. At that time a deciwas annoyed sive and important factor.

> This was the moment I called Robert and asked him if he could make an inductive switch for us in a housing with a diameter of 20 mm, 65 mm long, 2-wire AC. I think he swallowed hard. Robert Buck † was working for Dr Klein (PEK) again at stage, no other company was capable of producing units with such a fantastic developer, it was almost everyone can do that! From that moment, the company "ifm elec-Gerd Marhofer and Bernd Rüsing in



Technical data sheet for

the Swedish market.

Horst Jeruschke ifm group of companies, Germany

ifm sensors in Sweden. From the tribution with very beginning of ifm the engineers knew each other. Gerd Marhofer Svenska knew Günther Weber who invented the first infrared sensor as a 2-wire (SSE) and at the device with AC voltage. He had a company in Northern Germany. Mr first production of ifm products out-Weber was a friend of Mr Heinz side Germany. Later, he also serviced Korn who therefore became aware of the ifm units, recognising straight ifm. In 1985, SSE became a 100 % away the potential for his adopted subsidiary of ifm. country Sweden. From his domicile in Överlida he started the first dis-



Denmark, Finland and England for

: 1971	0 0	• •	•
1 January: ifm transfers their headquar- ters to I. Weberstraße 9 in the city of Essen.	October: ifm exhibits at Interkama in Düsseldorf. A spectacular bugging attempt hits the headlines, among others in STERN and SPIEGEL.	31 December: Bernd Rüsing leaves ifm electronic geräte gmbh+co kg as Managing Director and goes to the company hps.	

the

ifm in the press.



»Bei Ihnen ist ein Geheimsender versteckt«



Pappschachtel im Format einer Zigarettenpackung hervor. Die versammelten Techniker identifizierten die beiden Gegenstände mühelos: als Mini-Mikrofon und dazugehörigen Sender. Die alarmierte Kripo konnte das Urteil nur bestätigen. Am Ladezustand der Batterien errechneten die Kriminalisten, daß der Sender bereits seit Be-

Mini-Spion hinter der Kabinenwand

Von unseren Redaktionsmitglied Hartmut Zscherper

Die Gesprachspartner fielen fast von (auch "Wanze" genannt), der offenba den Stühlen: Mitten in wichtige Ver- schon seit Beginn der "Interkams" in kaufsverhandlungen auf dem Stand Betrieb war. Nach Angaben der Pos der Essener ihn Electronic GmbH & Co hat ein Sender dieser Art keine große KG in Halle 3 des Messegeländes Reichweite; er kann nur in derselber platzte am Wochenende ein Peiltrupp Halle empfangen werden. Die Suche der Post, suchte --- und wurde fündig. nach dem Industriespion aber blieb ---Hinter einer Kabineuwand entdeckten obwohl sofort die Kriminalpolizel ein die Post-Pe

Spionage-Versuch auf **Interkama Düsseldorf**

Mini-Abhörgeräl an der Wand durch Zufall geortet

"Billige" Informationen ohne die üblichen Gespräche am Messestand haben sich - laut dpa - unbekannte Interessenten offen-bar auf dem Düsseldorfer Internationalen Kongreß mit Ausstellung für Meßtechnik und Automatik" (Interkama) durch einen Mini-Spion verschaffen können. Am Freitag wurde ein solcher "Lauscher an der Wand", wie der "Interkama-Schnelldienst" eruhr, durch Zufall bei einem Essener Aussteller von Elektronikgeräten geortet. Der Trick kam heraus, als am Stand eines behbarten Unternehmens bei Meßversuchen auch die Sendefrequenz des Mini-Spions durchfahren wurde. Dabei konnte ein nebenan geführtes Messegespräch sehr klar mitgehört werden. Ein Peiltrupp der Post spürte den zigarettenschachtelgroßen Mini-Spino auf. Das mit einem fingernagelgroßen Mikrophon ausgestattete Gerät war offenbar schon seit Beginn der Inter-kama am 14. Oktober in Betrieb.



1971: move to I. Weberstraße 9, Essen.

Wilhelm Hoffmann. ifm group of companies, Germany

Taking marketing to the third ed Interkama, 40,000 of dimension. ... we wanted to do it better. Better cooperation with staff, better cooperation with customers, and our products were to be better as well. From the very beginning, this was Gerd Marhofer's central theme, (later on) expressed in the slogan "ifm close to you!" The slogan also emphasises the importance And in spring 1981, a completely culture has for communication: All exhibition locations of the world are suitable meeting places to foster intercultural communication.

As early as 1971, ifm, a rather young company, presented themselves like a big company at Interkama, the world's largest international trade fair for instrumentation and automation technology.

Until 1980 ifm exhibited at another 16 fairs in Germany and abroad. Even in Tokyo with a trade fair concept from Essen and the typical Japanese design with paper walls.

At Interkama 1980, an exhibition room with holographic objects was integrated into the fair stand. Besides technical, matter-of-fact hol-



Interkama 1971: ifm attracts attention not only with their colourful fair stand



them visited the ifm fair stand. The holography exhibition had to be closed several times because it

was overcrowded. As a result, the So at ENEX ASIA in Singapore in holographic objects became the 1990 ifm was the only European main topic at the trade fair.

different experience at the Leipzig Spring Fair. Microelectronics was the major topic at the most important trade policy event in the former GDR. However, with the massive support of the party and government who had a close eye on Western exhibitors. This did not feel like freedom!

More like in Hanover, where two weeks later the big Hanover Fair opened its western performance show with the theme "Industrial Application of Microelectronics", ifm was there for the first time.

ern Europe, Eastern Europe and the USA. The increasing globalisation of the economy, however, required new forms of organisation such as multinational groups and expansion of ograms the exhibition also featured global trade with international manartistic works. 110,000 people visit- agement. The centres of this econom-

ic development were not only the USA and Europe any more but increasingly also Asian countries.

exhibitor who showcased sensors for automation technology.

In 1991 ifm exhibited again with great success at the "System Control Fair" in Tokyo. Numerous trade fairs all over Asia as well as on the 5th continent in Australia and New Zealand followed.

Nowadays ifm is present in more than 70 countries worldwide. With ifm branches in 42 of these countries. In almost all these countries ifm has already participated several times in trade fairs and fostered intercultural communication.

With 141 trade fairs Germany is still Lots of trade fairs followed in West- the world's most important exhibition country. Upcoming exhibition markets are Brazil, Russia, India and China.

Horst Jeruschke

ifm group of companies, Germany

A lot of commitment. In the be- I then made first attempts with ginning, only Karl-Heinz Kleine was our own sales people in North responsible for sales at ifm because Rhine-Westphalia. Despite the highthere were no employees yet. ifm sold the first devices in the early their first sales office in Bavaria in 1970s via sales representatives who 1972. The special thing about all had various agents in the respec- our branches was their independtive postcode areas. Gerd Marhofer, ence. The Managing Directors not however, was always convinced only contributed financially and on of the idea to visit customers with a pro-rata basis, they were also fully ifm's own sales people. The sales motivated. You could wake them up agents had one disadvantage: They at night, they jumped up and drove did not work 100 % for ifm, they off, if necessary. This was decisive always also sold products from other for the success of ifm. We were not manufacturers. These could also be the first on the market. But the only completely different products, they ones with so many employees on sold everything from lamps to win- the road who worked with so much dows. Success depended on external partners, which is not a safe strategy. of the branches sales went up.

So a first attempt was made to work At the beginning all this required a with ifm sales people and I was in charge of the area in the North. It stretched from Hanover to Unna and I was based in Bielefeld. Everything was going well because we only focussed on ifm. But ifm was still ning it was important to guickly get money back into the company. In this respect the trade partners had a clear advantage: the shorter terms of payment. When they bought products from us, the money was in our account eight days later. Customers could take up to 30 days. When the trading partner Friedel Wenglorz -Wenglorz was the only trading part- have meant a private fiasco. ner who worked almost exclusively for ifm and later took over sales in North Rhine-Westphalia – took on more employees in the north and expanded the area, I first went to the head office in Essen.

er financial risk ifm started with commitment. After the foundation

lot of commitment. But other factors also played a role. If ifm was in a tight situation, the owners gave their own money to pay the employees. The relationship with the banks also played a role. It was not always easy to have young and particularly at the begin- to ask for a loan. Gerd Marhofer, however, was convincing and the bank also believed in ifm. And right from the start Mr Marhofer's and Mr Buck's wives had a significant share in the responsibility for success. With their passionate support as vital guarantors for expensive loans they showed great private commitment. Because a failure of ifm would also



Information meeting at Hotel Rosengarten in Tettnang in 1972. At the board, ifm Managing Director Robert Buck †.

:1972

fm achieves a turnover of DM 2.5 million and employs 86 people.	Capacitive two-wire proxim- ity switches now also allow the detection of non-metallic materials.
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Capacitive sensors used for the production of ceramic tiles.



Hans-Dieter Gesthuysen, patent attorneys

Stalemate. Gerd Marhofer and Robert Buck † mutually conceded that they both did a good job and that "only those who do nothing will never make a mistake." At the their own without my support. same time, it was clear that if one of them made a mistake, the oth- Apart from that, they were very difer one would be there to help out. ferent: At that time, Robert Buck † And vice versa. The situation back for example said, "I don't want a big then meant a stalemate. Bernhard von Spiczak wasn't there yet, Bernd took the opposite view. He would Rüsing wasn't there anymore; there were only Gerd Marhofer and Rob- sooner rather than later. This shows ert Buck †, and both owned 50 per how much they differed in terms of cent of ifm. To do away with the stalemate, the idea was to set up an advisory board with three members. had business journals lying around This advisory board never had three the house, and Robert Buck † was members. For a couple of years, it the inventor, engineer and developonly consisted of me. However, they er. Despite all the differences, a very never needed me as there was nev- successful combination, as we have er a situation they could not work seen! out together. I don't know if they

would have been able to agree on everything if I hadn't been there. I quess they agreed that they were man enough to sort things out on

business." Gerd Marhofer, however, have liked to have 1,000 employees character: Gerd Marhofer was the market expert, the salesperson, who



And another move: Production is transferred to Wasserburg on Lake Constance.



schalter

i I m



In the first years a fresh turquoise green dominates the design of ifm.

• 1 July: Production moves from Olgastraße, Tettnang with a space of approx. 50--140 m² to Wasserburg with a space of approx. 500 mm².

:1973

• The first electronic speed monitor in a DIN rail housing, the basis for the monitor product line.



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elektronische Annäherungs-

efector

Dieter Radtke, ifm group of companies, Germany

Too complicated? The speed monitor was developed according to the concept of Managing Director Robert Buck † and made by the Butron company. Albrecht "Abi" Bär had worked for ifm since 1973 and later on was responsible for the product management of the new device. Although the speed monitor had been developed it was not yet quite ready for selling. The nameplates were produced in strips of six each in Essen. The first data sheet was created – unfortunately with a big mistake in the heat of

the moment. Now the first 20 to 39 units were ready to be sold. The demand for the new speed monitors was enormous, but at that time ifm was not able to supply so many customers. This is why Abi Bär travelled to Lake Constance and helped with the production of the speed monitors for four weeks. He soldered PCBs and made the units ready for delivery.



Then the next idea – let's make a slip monitor. The company Rheinbraun needed such a device. Robert Buck +, however, was sceptical and did not want to change the concept.

Therefore, Mr Bär travelled around to ask customers. He asked them if they needed a monitor that did not only switch if something was rotating or at standstill but also if the drive over-revved ("slip"). The result of the small market survey was 53 % in favour of the slip monitor against 47 % who had no need. Of course, Mr Buck then developed the slip monitor. The then famous slide switch was created. The functions of the four positions: overspeed, underspeed, switched on with start-up delay or without start-up delay. The colour of the housing from Dold was changed to the ifm colour orange. Sales people sold the newly launched speed monitor very well. And then the slip monitor came next.

The sales people were overstrained with the relatively complex device. They did not accept it because it was too complicated. Therefore the slip monitor was only rarely offered to customers. The big success of its predecessor, the speed monitor, did not come its way.

contact is from the start. improve iction.

Robert Buck †, founder of ifm Jörg Schütze, ifm group of companies, Germany

Decision before the Federal Pat- If we had lost this case, this would ent Court. One hurdle for ifm as a patent infringement suit brought ily and perhaps against ifm by a competitor from the SME sector in the early 1970s, i.e. Because proxvery shortly after ifm was founded in 1969. If the competitor had won the with just two case, ifm would not have been allowed to make, offer and distribute or sell "non contact" 2-wire proximity switches in Germany.

We brought a revocation action to cal two-wire liminvalidate this fundamental German patent that was granted in 1971. For us this meant to prove to the judges of the Federal Patent Court that it was not legally valid, which usually involved a great deal of work. We company ifm electronic had nothing had to find a document somewhere in the world (technical literature, from claiming licence payments, at brochures, etc.) or find a device that least for the past period, the comverifiably described or implemented this invention in an identical or sim- prohibit the production and sales of ilar way at an earlier date. I (Robert such ifm units in Germany for many Buck †) flew to Munich for the court hearing.

Our patent attorney, Mr Hans-Dieter Gesthuvsen, who researched and nately not really useful – letters patents regarding this subject, argued that the electronic two-wire "switchgear" of two competitors, "Pulser" and "proxi-captor" were known to the public prior to the day of the patent application and would therefore anticipate the main ideas of the invention. What was decisive, however, was a pre-published brochure of one of the competitors that fortunately carried the reference "1/5/67" so that we could provide credible evidence to the patent judges that the 1 May 1967 was the publication or print date, which was just five months prior to 3 October, the date of the patent application.

have been the end for this important young company was probably the and back then only ifm product fam-

> also for ifm. imity switches wires were a very modern electronic replacement for electromechani-

it switches that

were prone to wear. And except their inductive 2-wire units with the designation efector 12 and efector 22 (10 and 20 mm sensing range) the young else to offer to their customers. Apart petitor would have been allowed to years. Thank God this did not happen.

The opponent's legal representative congratulated me (Robert Buck †) on our success and stressed that worked through lots of - unfortu- they would accept and not challenge this judgement. This congratulation on the two court cases won positively surprised me because this was neither then nor now a matter of course and usual. So I will always positively remember the first big test for ifm in the field of patent law.



Figure 2 of the competitor's patent applied for in 1967 that protected the fundamental idea of the twowire proximity switches and would perhaps have destroyed ifm's existence if ifm had lost the revocation and infringement actions.



I. Weberstraße 9, gesetzlich vertreten durch die persönlich haftende Gesellschafterin, die Firma ifm electronic geräte gmbh. Essen, diess gesetzlich vertreten durch ihre Geschäftsführer Gerd Marhofer, Essen, Heinrich-Strunk-Straße 53 und Robert Buck, Lindau-Enzisweiler, Torkelweg 4

efector efector . P efector efector . ifm electronic

Norma Möller,

ifm group of companies, Germany

Special atmosphere at work. The first working day at ifm in Essen was of course exciting. As opposed to my former employer, a big company, the atmosphere here was very familiar. At that time only 12 people worked in Weberstraße.

I remember that we often had a good time together. As soon as the next turnover hurdle was crossed, Gerd Marhofer promptly rewarded us with ice cream or an invitation for dinner. When he came back from Tettnang he often had something for each of us, sometimes a very tasty special

bread.

for forty years.

During the years, growth kept increasing. But we all knew each other well, many friendships still exist today. I think back then every employee worked as if ifm were his or her own company. You were motivated, did not look at the watch and simply did thinas.

For me ifm is and remains something very special!

:1973

• • • • • • • • • •	ifm electronic wins an existence-threatening patent lawsuit against a leading competitor.	• • • • •	ifm pro present at the F eration Schlüte
•		•	
۰		۰	

oximity switches are ted for the first time Hanover Fair in coopwith the company er KG.



18

Until today the atmosphere at work has been something very special at ifm; this cannot be taken for granted. Of course, one or two things changed with the strong growth. In 1973 at the age of 18 I myself could not imagine that I would work for ifm

1969-1973

MILLION DM IN SALES



80 EMPLOYEES



35 PATENTS



COMPANIES

.....

Product milestones



Inductive proximity switches



Capacitive proximity switches



Monitor devices



Heidrun Scheider,

ifm group of companies, Germany

Thirteen. September 1974: A career change was imminent for me. So I applied for a job at ifm electronic geräte gmbh+co kg advertised in the newspaper WAZ and was invited for an interview.

At that time ifm electronic resided at Weberplatz in Essen. I was curious and took off. The door was opened by a woman wearing a white work coat. I got immediately into some kind of open-plan office.

It looked a bit untidy. Everywhere boxes and demo boards were standing around. Green, felt-coated partitions separated the room. I was astonished. Were people supposed to vacuum-clean and dust themselves? The people sitting there, were all of them staff? No and yes. No, you didn't have to vacuum or dust, and yes, almost all employees were gathered in just

one room. Only the boss and his secretary had a separate office - with the exception of the warehouse. My first impression: I did not want to work in such a company. After all I came from a large company with about 100 employees. The following interview was very harmonious, though. The employees seemed to be guite nice. Furthermore the job advertised sounded very interesting. So I threw all previous concerns overboard and hurtled into the adventure. After another interview the contract was drawn up. I got the staff number 13 which meant I was the thirteenth employee of the Essen company. Only sometimes am I superstitious, but not when it comes to the number Thirteen. Finally now after about 38 years it has shown that this figure can be seen as a real lucky number. Luck, to work for a company which writes in its corporate philosophy, for example, "Growing successfully in security". This security was felt in 1975 and is still felt today.

By the way: The lady wearing the white work coat was only packing boxes for the relocation to Teichstraße, the new address as of January 1975. And the demo boards were meant for the Interkama trade fair in October. That was something I only learnt later on.

Teichstraße 4 was the address of headquarters in Essen for 35 years.



Looking into the canteen efector-Stübchen".

Warehouse and dispatch in Essen. The entire headquarters (still) find enough space on one floor at Teichstraße.



:1974 ifm is already among the five ifm starts with the foundation of independent sales leading companies in the companies: market. 1 January: ifm bayern and ifm baden-württemberg, 6 August: ifm nord.





Capacitive sensor from ifm on the title page of a technical magazine in 1974.

ifm at a fair trade in Japan in

the 1970s.



Horst Jeruschke, ifm group of companies, Germany

Apprenticeship fee paid. Japan – wrong in our assessment. Therefore, the model country for electrical en- business in the new market started gineering, far ahead of its time. To guite slowly. When we were looking of our own sales offices in Germany was very positive so that it simply also had to work abroad.

looked that our approaches could tion just like that. We were not aware of the fact that people in Japan are very polite and that you do not have discussions the way we were used to having them. For example, if our local colleagues suggested a product and we wanted it differently, the Japanese agreed to it out of pure politeness, even if we were actually

ensure not to miss any new develop- for staff we were blinded by recment it was, of course, necessary to ommendations given by other combe close to the pulse of time. There- panies. We recruited people on the fore, we started to set up a branch basis of the recommendation. Howoffice in Japan early on. The success ever, we did not know that it was common practice over there for staff who are not good at their jobs to be "kicked upstairs". That's why we had to learn the hard way in the first few Unfortunately, we completely over- years. If Albrecht Bär had not decided to stay in Japan and work for ifm not be stamped on another civilisa- at that time, it would certainly have failed. In Germany the customers appreciated very much that we had our own branch office in Japan. We were reputed as an innovative and well-positioned company because we could afford this.

1975	• •	•
1 January: New location of the head- quarters Essen Teichstraße 4, not far from the central railway station.	The number of staff exceeds 100. So ifm has increased more than tenfold in less than six years.	

Dieter Kaiser, ifm group of companies, Germanv

Wasn't meant to be! At that time cards with customer details because I had finished technical college, ifm had a job advert in a newspaper, in thermore we began some kind of 1976, indicating a box number. Later on. I was told that the reason why was that the competitors should not know that we were in the process of setting up a sales force. Therefore, I did not know what company was I did not make my first customer behind the box number. And ifm sales. Because in those days sales tomer" together was associated with "go and ring doorbells", with "selling insurance rienced sales contracts" which had a negative touch to it already then. And I had not sold anything before but accept- customer with ed nevertheless.

In 1976, 20 – 30 % of the popula- two weeks action had a telephone. I started at ifm and did not have a telephone. When a day since Mr Schlotz had to look you asked for a telephone in those after the build-up of the branch days, it took four months until it was actually standing on your desk. So I went into the nearby city centre (3 km) to the main post office every Monday and made appointments with customers from the telephone in charge of the second conversation box at the post office until noon. Then I had to leave because the post office closed. There were hardly any customer details available. The ifm branch office süd-west had just been founded. Engineering consultants not perform well at all, you will go used to be in charge of this region. on all on your own since I have no When our own branch office was more time" he said and disappeared. founded, the engineering consult- From that point on I had all converants made it pretty difficult for us to access the data. Therefore, Roland Schlotz and I started to create index

there were no computers vet. Furbookkeeping, one order book and one invoice book. Every sales engineer worked with these two books and that is how sales was controlled.

visit alone. In those days it was comwas looking for a customer con- mon practice that after the product sultant at that time. No mention of training you "were off to the cus-

> with an expeengineer. So I was off to the a colleague. Mr Schlotz. These tually were half



office building. When we made the first visit in the morning, Mr Schlotz was the one who led the conversation and before the second one he said: "Now it's your turn." So I was and when we came out of there, he was short-spoken: "Maybe next time!" The customer had, of course, talked to Mr Schlotz rather than to the greenhorn. "But since you did sations with customers by myself.



The production in Tettnang-Bechlingen.





After production 25 proximity switches each are bundled up and sent to Essen. Right from the start packaging is made in Essen.



ifm develops a machine which can solder the film IC with the PCB using a special holding down device.

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15

SMD components on 35-mm film, film IC.

> ifm produces in Tettnang again in the former Colofil factory.

: 1976

1 July: The production moves from Wasserburg to Tettnang-Bechlingen and has a production area of about 1,000 m².



TETTNANG. Für Bürgermeisiter Grasselli war es, wie er in der Gemeinderatssitzung am Mittwoch betonte, eine sehr erfreuliche Mitteilung: Die Firma ifm electronic geräte, Wasserburg/Hege, die auf dem Schäferhof einen größeren Gewerbebauplatz erworben hat, hat den Gesamtbetrieb nun nach Tettnang verlegt und die Produktion diese Woche in Räumen der Firma Colofil aufgenommen. Grasselli zu dieser Industrieansiedlung: "Dies ist für die Stadt Tettnang nicht nur vom Finanziellen her gesehen ein Plus, sondern bedeutet für Tettnang auch die Möglichkeil, weitere Arbeitsplätze und - so hoffen wir - auch Ausbildungsplätze zu bekommen. Ich habe dem Firmeninhaber, Buck, zur Produktionsaufnahme in Tettnang herzliche Glückwünsche übermittelt." ifm hatte vor Jahren in Tettnang bei Meschenmoser in der Olgastraße klein angefangen und ist nun erfreulicherweise als renommierter Betrieb der Elektronik an seinen Ursprung zurückgekehrt.

Otto Bauknecht.

ifm group of companies, Germany

wish to considerably increase the performance of the then still simple proximity switch, Robert Buck † A perforation cut of exactly 4.26 mm, developed the first IC suitable for large-series in cooperation with a large electronics supplier. This partnership enabled the integration of a trendsetting circuit complex.

but did not have any efficient knowhow to position and solder components on the rigid PCB. That was a challenge for the highly motivated and highly committed experts of ifm development and production.

In this film IC, the approx. 1.5 x 2.5 IC was then mm silicon chip was equipped with an integrated circuit designed by Robert Buck t cleverly devised circuit via 0.2 mm wide copper tracks. The technology was called "outer lead bonding". The exposed copper tracks led from the surrounding solder pads of the 8 mm wide polyimide film to the contact positions of the chip. Instead of the chip there was a hole in the film into which the small conductors reached. 16 solder pads that industry for many years. Moreover. were arranged in a rectangle on the film. They were made solderable by reel to reel" which is still used today. means of galvanic tin plating.

Width and transport perforations of the polyimide film were taken from the standard of the super 8 narrow gauge film. This allowed us to make use of existing equipment such as take-up reel etc. By mastering the positioning and soldering of the film IC ifm succeeded in securing a revolutionary USP for the technology at that time.

On the basis of his experience in precision engineering. Berthold Schocker succeeded in developing both a handling robot suitable for series production and soldering equipment

IC made for filming. Following the to place the film IC onto the rigid PCB.

corresponding to 1/6 ", was cut off the endless film, picked up using a tiny underpressure nozzle, turned into the correct position and then placed on the solder side of the PCB tinplated in the IC area. Even in those days we called it Our partner could "pack" this IC chip "pick and place". Then 16 fine needles pressed against the solder pads of the film ICs which consequently melted

> with the conductors of the PCB in a temporary hot-air flow. The film protected against mechanical pressures and sol-



der temperatures with a small piece of adhesive tape. This procedure required exceptional precision throughout the entire process chain, starting with production and design of the PCB for which I was responsible at that time. Its mastering gave us a head start in it was the birth of the process "from

Now that the film IC was placed on the PCB it was populated with components in homeworking. Once returned to the company, the components were soldered with each other in a solder float, later via a solder wave. During this process the IC on the soldering side had to endure the bath soldering of far above + 250 °C for a few seconds without any harm done

Dieter Radtke,

ifm group of companies, Germany

Interkama is right around the corner. How is advertising done in 1976? The world is not yet digitised. We have neither a Mac PC, nor photoshop, nor email, nor internet at our disposal. Telephones still have a dial plate. Advertising is a creative brain and in those days in particular manual work: Design graphics using a compass and stencils, text frames glued onto cardboard with unhealthy smelling "rubber cement".

There is a darkroom with a huge repro camera which is used to take photos of graphics or typefaces. The prints as such are developed in development equipment with chemical baths. Text is exposed in a technically demanding device, letter after letter, on light-sensitive paper without a keyboard as we know it today.

The small advertising team has to produce catalogues of several pages or master large events such as Interkama fair, the top fair for ifm at that time, with these limited tools.

This is not always possible in the "normal" work rhythm. This requires special commitment.

In 1977, I had not been at the company for a long time, Günther Diederichs, the managing director then, comes to me and announces that the next month we have to work through, i.e. every day two hours longer and no plans for the next few Saturdays and Sundays Interkama is just around the corner ... so let's tackle it.

I also recall that after a successful fair event there are extensive celebrations and nobody minds the money.

However, whenever the bear was stepping in advertising, my family asked me: "Hey, another fair around the corner?"



Darkroom with repro camera and development device at Werbeberatung Günther Diederichs, Teichstraße, from which ifm identicom emerges later on.



ifm Managing Director Gerd Marhofer (centre) with sales managers at a conference.

Ruth Weidtkamp, ifm group of companies, Germany

Nothing is impossible. Early on, I noticed that ifm was active not only in Germany, but had just started to set up internationally. On the techni- Nevertheless we felt like cal fair for industrial communication, Interkama 1974, we had a guest members of this family. visitor from Japan, Mr Kashiwabara, tion were held.





Reception at the headquarters in Essen.



ifm gives a five-year guarantee on standard devices.

Turnover exceeds the DM 10 million mark for the first time.

26

Today we have branch offices all over the world.

a family. We were all

I like to remember Ms Budde. Ms Discussions about further coopera- Budde was in charge of the kitchen and of cleanliness. Sometimes she brought us beverages or she came to our desks while we were work- with our focus on this target everying and cleaned the keyboard of the typewriter. Whenever there was a party, Gerd Marhofer asked Ms went without saying that there were no differences and that Ms Budde was an integral part of our young up the company ifm. Right from the team.

> As far as analysis of the competition was concerned, we took unusual paths. Instead of getting documents about their products from third parties, we directly wrote to all competitors and offered them regular "exchange of documents". Almost all companies joined in.



I liked in particular that we were wholly responsible for our tasks.

Tasks were not assigned but tasks simply arose.

We could carry them out according to our own ideas. We enjoyed large confidence. The target was set and body performed their tasks to the best of their knowledge and belief.

Budde for the first dance, always! It The target was to market our products with everything, including everything that's involved to build start we acted according to the philosophy: Nothing is impossible.

Horst Jeruschke ifm group of companies, Germany

Good reputation. Udo Lübeck was a downright sales guy and a big fan of France. He was determined to go to the neighbouring country to set up sales there. However, the search for a suitable office was a problem. Buildings we could afford were usually in a desolate state. So the search took guite a while. Mr Lübeck also placed a job advert in the daily newspapers in Paris, Lyon and Strasbourg. The office was not yet found and a hotel was indicated as the place for the interview. We went to the indicated hotel although I would have taken a bet that nobody would follow such an advert. However, I was proven wrong. Applicants came and in two weeks we had our team.

When we finally had an office, we had to have our first meeting in a sparsely furnished room. A door on two trestles had to serve as a table, only covered with a tablecloth. We explained the ifm products and the colleagues kicked off. The turnover came. Two years later I asked the colleagues why they had wanted to start with us under such conditions. They explained that German companies enjoyed a good reputation. They had asked for information at the Chamber of Commerce and when they said that ifm was doing well on the market, they applied. They believed in the company!



Those good old (D-Mark) times: Price list 1976.

:1976

- 15 November: Foundation of ifm distribution in France.
- 25 December: Foundation of ifm Japan.





Besides committed work there also has to be some time for parties: All ifm colleagues from Germany meet for a traditional "knights evening"

Information



Bruno Ruetz,

ifm group of companies, Germany

Automated production. I joined At the beginning, there was some ifm in 1976. At that time the film IC had just been introduced. The chip system and only selected people were packed in a Super 8 capton film (the correct name for this type of pack- was standing. age is Tape Carrier Package) was assembled on the solder side of the Then eventually the system was printed circuit.



the prepared PCBs were then populated with wired tested and sent to Essen. There the type labels were

patch to the customers.

duced in-house at ifm. To ensure of rejects. Berthold Schocker asked that the strongly increasing quantities could be delivered meant a big was considerable time pressure since challenge for everybody. There was the guantities from the system were one shift in production and working longer hours was the rule more often than not. Nevertheless, we often met after work in a relaxed atmos- current situation. I had to make do phere.

Berthold Schocker was at the company in October 1976; he was re- A non-bureaucratic way of working sponsible for production equipment construction. He was also in charge of the mechanical workshop. To sol- made if necessary, the order was disder the film IC in larger guantities, cussed with those involved - and it Berthold Schocker had developed a semi-automated system which allowed the IC to be positoned automatically.

kind of mysterious veil around this allowed to enter the room in which it

ready and was used in production for testing. The solder parameters In home working, were set and Mr Pollack, mechanical engineer, who had set up the system had to solder the first parts under production conditions. Everything components, fur- was OK. That called for a celebrather processed, tion. Everybody was happy to work faster and more accurately with the new system. The champagne glasses had long been removed and everyapplied and the units packed for dis- body was doing their regular work when it was noted that the system functioned mechanically but the test All production equipment was pro- device showed an increased number me to look after the system. There desperately needed. ifm's Managing Director, Robert Buck †, showed up several times a day and asked for the with this system for guite a while until the quality was finally OK.

> was typical in those days. The order was given verbally, sketches were was carried out.



Fair stand at Interkama 1977 in Düsseldorf.

Georg Kaluza, Designer

Design at ifm. ifm electronic, in particular company founder Gerd Marhofer, identified the importance of product design for the corporate culture early on. The outer appearance of the products and their aesthetic effect should meet the customer's The first contact was made when Mr Gerd groups shaping ifm's image. expectations in a positive way. The technical quality is to be expressed in the design quality.

to various housing designs. The design is a bridge visibly transporting ifm's philosophy

the design is planned to last for a long time. It has its origin in the benefits of the product and therefore does not follow any changing fashion trends.

Marhofer and Mr Günther Diederichs visited the design fair Essen in October 1976 initiated by the Essener Haus Industrieform (at that time still located at the old syna-The different functions of the sensors led gogue), today known as Designzentrum Essen with the "red dot award". After first discussions with me I was invited to come to the customer. ifm products should func- to the ifm headquarters in Essen and the tion reliably over a long period. Therefore, first designs of the types IAE and IBE, fol-

lowed by IME and OP were developed.

Together with Kaluza Design, an ifm design line has continuously developed ever since showing a common origin of all product



Design concept for inductive

proximity switches with

terminal chamber from Georg Kaluza.

: 1977	0 0	0 0	0 0	•
1 January: The eve of a new age the first computer at ifm.	On 10 November, the independent branch office ifm mitte-west is founded and in the course of the year the engineering consultants Wenglorz change their com- pany name to ifm west.	29 November: ifm elec- tronic geräte gmbh+co kg becomes ifm electronic gmbh; the limited partner- ship / business partnership becomes a GmbH (limited liability company) / company limited by shares.	Foundation of ifm vertrieb gmbh.	





12.5.77

Look into the mechanical lab at the

location in Tettnang.

Dieter Radtke, ifm group of companies, Germany

ifm, a tongue twister? At the beginning, the branch office in Japan was not called "ifm electronic" but efector co., ltd. Why's that? In the 1980s, we had controversial discussions with our Branch Manager, Mr Bär, because from our point of view from the point of view of advertising this choice of name could not really be understood. Ford, Coca Cola or Mercedes had the same name everywhere. The first thought of a worldwide brand or a uniform corporate design came intuitively.

Mr Bär's reasoning was guite simple: The Japanese cannot pronounce ifm as "ai-eff-emm"; it sounds more like "aiffhm". And efector was the introduced brand name for the ifm proximity switches, as they were still called then and it was easy to pronounce. That was the decisive factor. ifm remained "unpronounceable" in the land of the rising sun. In 2015, the name was eventually changed to ifm efector.

Bruno Ruetz,

ifm group of companies, Germany

On the way to film technology. were not suited for ifm at first glance The number of pieces were increasing continuously, just like the number of home workers and the production staff. Nick Schwindl, Production Manager, controlled the whole development guite unbureaucratically. Robert Buck t, ifm's Managing Director, was looking for a procedure to automate the production process. Therefore, I was often travelling with Robert Buck guite often by plane, he needed flight hours because at that time, around 1977 until 1978, visit companies, attend seminars or look for innovations at trade fairs. As from around 1978, there were individual reports about chip components in which Robert Buck † saw the possibility of automatic pick and place. Several options were analysed until by 1979/1980 three possible solutions seemed to be fit for automation:

- 1. Placement of chip components on a flexible PCB.
- 2. Placement of chip components on rigid PCBs.
- 3. Thick-film technology.

In 1979, the process technology major part of their units in thick-film department was established. The procedures and the tests which were necessary to make a decision were agreed in close cooperation with Robert Buck t. The many company and trade fair visits and seminar attendances paid off so that you had a rough idea of which direction the component market was moving. All preliminary tests were structured to find out the right type of production for ifm. It was a particularity of Robert Buck ogy" by Robert Buck 1. t to test production options, which

by a fundamental test. Only if the trial showed that this production type did not result in the required quality, was it no longer discussed. During a company visit in francophone Switzerland we could see a production line on which the circuits could be produced on a 35 mm wide and 75 µm thick perforated capton laminate (film) continuously from reel to reel. This company was ready to manufacture sample circuits according to our specifications. The first samples were he made the blind flying licence to manufactured and tested. Moreover, several versions were tested with different tin-plated surfaces (galvanically tin-plated, tin-plated via solder wave, solder-paste printed, etc.). In May 1980, our results were presented to the Managing Directors in preparation for decision-making. On this basis it was possible to continue and corresponding systems were invested in. In 1982, a complete laboratory production system to produce thick-film circuits was purchased. In addition, two lab bonders to bond chips without housings were purchased. A small clean room was extended for the systems so that we could produce small series of thick-film circuits. At that time a large competitor of ifm produced a technology.

During the tests it showed that it was possible with the circuit on the flexible capton film to have a bigger component density, a higher degree of automation and other advantages. That meant that it was the better production method for ifm. From then on we concentrated on the further development of this production method. It was called "film technol-

Tettnanger Elektronik-Firma erfolgreich bei "INTERKAMA 77" TETTNANG/DUSSELDORF. In Düsseld

TETTNANG/DUSSELDORF. In Düsseldorf fand vom 6. bis 12. Oktober die größte Fach-messe der Welt für Meßtechnik und Auto-mation statt, "Interkama 77. Auf rund 45000 qm stellten 900 Firmen aus 20 Na-tionen aus. Das Tettnanger Unternehmen "Im electronic" stellte auf einem der größ-ten Ausstellungsstände (316 gm) ihre efec-"ilm electronic" iettinänger Unternehmen ten Ausstellungstände (316 qm) ihre elec-toren aus. Die ilm electronic geräte gmbh ist seit 1976 wieder in Tettnang ansässig. Auf dem Gelände der ehemälg ansässig arbeiten gegenwärtig rund 80 Mitarbeiter. In Tettnang sind die Geschäftsbereiche Ent-wickkung und Produktion zu Hause, während die Bereiche Vertreib zu Hause, während Essen sind. In der Verwaltung in Essen ar-beiten etwa 40 Mitarbeiter. Außerdem hat diesses junge Elektierer der internehmen fürste dieses junge Elektronik-Unternehmen (1970 in Essen und Tettnang gegründet) sechs eigene Niederlassungen in Deutschland sowie Auslandsniederlassungen in Frankreich und Japan. Die ifm electronic konnte sich und Japan. Die im electronic konnte sich mit ihren elektronischen Annäherungsschal-tern innerhalb von sieben Jahren eine Spitposition in diesem Markt erarbeiten. Die Produkte der Firma tragen die Markenbe-zeichnung "efector". Efectoren sind elektro nische Annährungsschlafter, die als Befehls-geber für Automatisierungsaufgaben in der Industrie eingesetzt werden.



: 1977

1 December:

- Foundation of "Butron"
- Buck Electronic GmbH,
- Tettnang. Development
- and production
- of monitoring units.



IME 23

Cable assembly at the Tettnang factory. Study for the rectangular IME inductive design from Georg Kaluza.

Berthold Schocker. ifm group of companies, Germany

Roland Schlotz †, ifm group of companies, Germany

Dreißig G. Frankfurt airport, 1977: It was the first design for The baggage handling line had to be expanded. It is 42 km long and has to be passed from A to B in 40 minutes. A high-performance line world-wide unique at that time. An inductive sensor was looked for which did not only have to be reliable but was also fit for universal use. Nobody had such a The contacts at Frankfurt sensor in the catalogue and so it had to be newly developed. ifm was one of the companies who were asked for suggestions. That spurred us on, of course, and stayed on our minds be- at that time Managing cause we wanted to meet this challenge. There were a few suggestions. Our boss in Essen, the engineer Gerd Marhofer, had made a 3D drawing with a suggestion that we liked best. This suggestion was already pretty close to the final sensor. We started development right away with great enthusiasm. I was in charge of the design, our boss in Tettnang, engineer Robert Buck †, of the electronics. And then it went off: design - circuit development - prototyping - injection moulding tools - and before long, we had the first parts in our hands. The exactly. IME was born. That is the big moment for a designer.

which self-cutting screws were used to screw the upper to the lower part a technology which was already the standard in automotive construction.

airport liked our concept and then there was the decisive discussion at the airport. Roland Schlotz,

Director of the ifm branch office süd-west, had brought some sample sensors and explained the IME and all its advantages. When everything had been reviewed and discussed. the boss was called. He sat down at the front of the big table. His staff let him know that that was the right sensor. Then he grabbed the sensor and examined it from all sides. You could tell by his look that he liked the sensor. "How much 'G' can it take?" he asked Roland Schlotz. "Thirty," he replied, without knowing

Then he smashed the sensor onto the concrete floor of the conference room. Everybody held their breath.





The sensor bounced a few times hard on the floor and came to a stop underneath the desk He wanted to see, of course, if the sensor still functioned and had not broken. Roland Schlotz crawled under the desk. got the sensor, connected it and it worked without any scratch. The boss took his pen from his jacket with an approving look

on his face and signed the contract. We had to supply 200 pieces at once. Altogether 25,000 IME sensors were built in at the airport. But that was just the beginning of a success story. For ten years about 10,000 IME were sold monthly to many different customers worldwide. And even today in 2013, namely 36 years later, the sensor is still up to date and there are several million sensors operating reliably every day.

In 1978, ifm has two capacitive proximity switches in its range, the KB and KD types.

The wood magnet. In the first product training we were told that we would get a demo case in which you could connect units etc. Forget it! In Germany, three new employees were recruited at that time and we only had one demo case. Everybody knows that necessity is the mother tronics shop, bought a "contactor", a switching device, open, with a cable for the mains outlet and assembled the sensor at the other end. on the table. In those days you could impress the customers with such a

gineering technicians moved away

Dieter Kaiser,

Germany

ifm group of companies,

from the table right away because something had happened which you had not touched but nevertheless it switched. That was witchcraft!

Everything was demonstrated at that time; the speciality was a capacitive switch. You could switch of invention. So I went into an elec- through wood, for example. You placed it underneath the table, set it and moved your hand (or something else) over it and then it switched. One day I was at a company produc-As soon as the sensor had switched, ing machines for the wood industry. the contactor was jumping around I also impressed the company owner with the sensor underneath the table. All of a sudden he jumped up demonstration, sensors were not yet and shouted: "Come here, everyknown very well. Older electrical en- body, come here. There is someone here who has a wood magnet!"



1

Always close to the customer: ifm's sales network in the Federal Republic, 1977.



ifm football classic: Classic ifm football match: in Heppenheim the team Essen/sales force against the team from Tettnang.



Idvllic: the first branch office in Switzerland in Niederbuchsiten.

Invitation for the Elektrotechnik trade fair at the end of the 1970s.



Anton Schaad, formerly ifm electronic, Switzerland

Speaking the language of the country. At first an agency (Selectron) was responsible for selling the ifm products in Switzerland. This relationship, however, was ill-fated. Because this agency also copied the ifm products in orange. This was the main reason for the foundation. The Swiss industry was, of course, also of great interest.

The first branch office was situated in a rented one-family house in Niederbuchsiten. My predecessor, Peter Brendlin, a German, had lived there with his family. It was very difficult for Peter Brendlin, because language is very important in Switzerland. Swiss German is guite different from German and French, Italian and Rhaeto-Romanic are also the official languages in Switzerland besides German. At the beginning, the documents were only available in German.

The first big customer was Schlatter AG who are still a loyal customer today. As a German company we al-



ready fought Baumer, a Swiss manufacturer, at that time. Peter Brendlin was a lone fighter. He and his co-worker, Ms Gehret, had to handle everything themselves warehouse management and packing and forwarding units, which was a rule at that time.

I was the first Swiss sales engineer when I started on 1 October 1980. In the summer of 1981, Peter Brendlin left the company and I was alone at ifm Switzerland together with two colleagues. The support from nice people at headquarters was very good; otherwise this would not have worked.

In 1984, the company moved to Härkingen, Risweg. The number of staff was increased. In 1985, three men were working as sales engineers and two ladies in order processing and invoicing (ABF).

Otto Bauknecht.

ifm group of compmanies, Germany

Safe landing. Robert Buck †, Bruno Ruetz and I flew with a one-engine Cessna to the company Thomson in France for a technical meeting. The pilot was Robert Buck † in person.

At the reception of the supplier, Robert Buck was standing a bit aside so that the customer thought Bruno Ruetz and myself were the bosses.

After the meeting there was an improvised lunch at the airplane, consisting of the emergency provisions on board 100 ml unsweetened blueberry juice and three dry hard cookies and that was shared honestly by the three of us.

The flight back was crossing Switzerland and right above Lake Geneva the ignition broke! Emergency landing, fire fighters everywhere you looked. Five metres above us there was a wide-bodied aircraft, which had to go at full speed because of our emergency landing. Robert Buck † asked us if we had noticed something. But we thought we would simply have a stopover Robert Buck + had mastered the situation very competently. None of us had any money on us but fortunately, an installer had some money for this unplanned stopover. The other formalities could wait for the next day.

1978	0 0
Under HRB 538 the Tettnang "branch office" is entered in the trade register on 7 June.	On 1 July, ifm buys the premises of the production site in Tettnang-Bechlingen. From now on there are around $52,000 \text{ m}^2$ of which $13,000 \text{ m}^2$ is useful space covered by buildings at ifm's disposal.

36



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13.

1978

Angaben für 100 Stück

Einzelkostenzusamenfassung

Praxisorientienter Forwardsstil

st als weitere Voraussetzung für eine erfol

h und mit genin

em au sehen, welche Wünsche und men, und wie diese beseitigt werden könner

ebliche Kooperation ist es möglich pleiten zu vermeine

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igeatil bekannt unter dom Begriff: Führen gaben, Dieser Führungsstil bew

- 12 -

Basis for the later ifm philosophy: manuscript from ifm founder Gerd Marhofer.



Heidrun Scheider, ifm group of companies, Germanv

Dial G for "Grüezi". Our Swiss branch office was founded in November 1987. It must have been some years later when I was asked was from the parent company in to step in for the secretary of ex- Essen and would have problems to actly that branch office. At that time four colleagues were working there. Three were active as sales engineers which meant they were that our article designations are so on the road all day long and the colleague at the office had to do any kind of office work you can cle for his order. My lifesaver was think of: telephone, order process- that the Swiss postal system also ing, writing delivery notes and in- uses postal codes. And since in the voices, making appointments, etc. early years the customer pool was

thought. During the first few hours

the phone who I could not under- so the caller could at least be sent stand at all. He politely noted my desperate trials to explain that I understand him: "That's nice, I'm really pleased." But I could hardly understand him. It's a good thing concise; so I could at least write down the quantities and the artistill guite easy to view, I searched No problem - that's at least what I the registry on the basis of the post code and my adventurous there were no major incidents. Un- notes and bingo - succeeded in til there was an "original" Swiss on finding this customer! Well done,

1974-1978



MILLION DM IN SALES



260 EMPLOYEES



69 PATENTS



COMPANIES

.....

his order. After this experience I asked myself if it were better to ignore future calls, to place the receiver next to the phone or to escape to Essen. But I had discovered the trick with the post code! And whenever there was such a "difficult" customer on the phone, I insisted that I was given the post code. I was more than relieved that I had this tool. Nevertheless I always started sweating when the phone rang. And not to forget that my colleagues in Switzerland had a lot of fun when I was telling them about my daily experiences.

1979–1983



2.8.80. ifm Electronic GmbH, 4300 Essen 1, Teichstr

Geschäftsbetrieb: Entwicklung, Herstellung und Vertrieb von elektrischen und elektronischen Geräten. Bauteilen und Bauelementen. Waren/Dienstleistungen: Elektrotechnische und elektronische Geräte, Baute"e und Bauelemen

品

ndere elektri-Befehls- un

29.2.81



Roll it!

-

W. Weiland



EL.

Berthold Schocker. ifm group of companies, Germany

cuted. If it were possible to place electronic components on a flexible film instead of a rigid PCB, a world of new opportunities would open up.

But who would come up with such an idea? At the time, there was no such thing. Well, guess who did. Yup, Robert Buck t, head of ifm Tettnang back then. Not only did he come up with the idea, but his enthusiasm infected us all and so we set to work. For a new company with just 20 employees in the production equipment department, this represented quite a big challenge. The first pick-and-place machine was then running with a capacity of 3.600 components per hour on in 2012, we have 30 machines in the production with a capacity of 150,000 components on 70 mm polyimide film.

ious about this film technology? Electronics on film can be folded or rolled up and so a lot of electronics He excused himself for a moment can be placed on very limited space. and returned with two more col-

:1979

provisions.

On July 1, the company in-

troduces a pension scheme.

This pension scheme is the

basis for company pension

Brilliantly conceived and exe- The polyimide film is stable, but not rigid. In the event of high temperature fluctuations and thus different expansion of the components, the film yields and no dangerous stresses arise on the assembled components. "Well", I said, "The complete staff

During a visit to Hannover Messe in 1981, I was looking around the stand of a major competitor and was approached by an employee. During our conversation I gave him my ifm business card. He excused himself for a moment and went to their discussion cabin. One minute later he was The competitor's employees looked back and asked me to please follow him into the cabin. There an older high-ranking employee of that company was expecting me. He offered me something to drink Then from 35 mm film. For comparison: Today. his briefcase he took an ifm sensor type IF with film circuit which had been cut open. He asked me which partner company had worked with us on that development. "Partner company?" Lasked and said: "There What is so special and so ingen- is no partner company, that is 100 percent ifm development."

leagues. So there were four of us sitting round the table. They asked me about the manpower that had been necessary and for how long we had been working on this development. in our department for production equipment has been working on it with around 20 people for approx. two years. However, the complete technology is in the hands of just three or four people, the rest are workshop staff."

at me in complete bewilderment and one of them said: "We would have needed 150 employees and two years would not have been sufficient; if I had a hat on, I would take it off." They asked me to visit them again at the fair next year.

When I got back to Tettnang, I told this incident to Robert Buck + - a smile lit up his face.

Guideline for the sales force.



:1980

ifm decides to produce flexible circuits and starts with film technology.



ifm film technology The film electronics can be folded and rolled up and thus stored in a small space.

efector-Maximen 1. Handle begeistert! 2. Organisiere Dich selbst! 3. Denke an die Interessen der anderen Menschen I 4. Lerne die Kunst, zu fragen! 5. Finde den Angelpunkt!

- 6. Verstehe es, ein auter Zuhorer zu sein!
- 7. Verdiene das Vertrauen des anderen, sei aufrichtia!
- 8. Kenne Deine Branche!
- 9. Schenke Lobund Anerkennung!
- 10. Hab' Sonne im Herzen!
- 11. Merke Dir Gesichter und Namen!
- 12. Vergiß nie einen Kunden!
- 13. Aktiviere den Abschluß!



Siarid Felder,

ifm group of companies, Germany

Help in times of need. On July 1, Sunday. The managing director Ro-1979 I started working for ifm as land Schlotz really appreciated my secretary for the management. Man- xxx and for me as a 22-year old drivagement included Robert Buck † as er of a Citroen 2CV it was fun to Managing Director, Nick Schwindl as drive a BMW company car. Head of Production and Mike Friedrich as Head of Development.



and at the same to get used to completely new

planning of manufacturing equip- tion, were the development of the ment. These terms were really dif- film technology and of the modular ferent from those that were used at technology because they were direct my former workplace, a bank. And "projects" of my boss Robert Buck 1. there was nobody there to train me. I had to teach myself. So there I was. A very special ifm moment reflecting while my bosses were hurrying from one meeting to another, and I had no idea what I was supposed to do completely. NOTHING was left, just and how I might be able to support them. When I had got really desper- to the next I had nothing left. ate and was considering to leave ifm again, Mike Friedrich took the time In this situation, ifm was very helpful to properly train me and to get me involved. And so step by step I got offered me the use of a flat that ifm familiar with my work.

happy to take on as the "girl for ing Director and after his retirement everything" was spontaneous journeys in the company car when ifm company load at a very low interest Süd-West urgently needed equip- rate. Without this support this total ment for a customer on Monday. loss would have been much harder which was guickly manufactured in Tettnang on Friday and then brought directly to Heppenheim by me on

Or when we urgently needed transistors from TAG Zurich that I picked up The first day and by car because there was no time to the first weeks wait for the delivery time. The comwere really excit- plete customs clearance on site was, ing, interesting of course, part of the package.

time "confus- There would be many stories to tell. ing". First, I had It was an exciting time in a very special company.

terms such as Special milestones in the ifm history, patents, development, project costs, according to my personal percep-

> ifm's sense of family was May 26, 2000 when my rented flat burnt out what I was wearing; from one hour

to me. Robert Buck spontaneously had rented so that I had time to look for something new. In xxx with Bern-One of the voluntary tasks that I was hard von Spiczak, then ifm Managstill consultant for ifm, I received a to bear.

Albrecht Bär.

ifm group of companies, Germany and Asia

Short partnership. At the begin- ed by ifm to stop developing proxning of the 1980s, ifm was looking This led to a partnership with the Japanese company SUNX in 1982 / sensors ourselves, naturally under 1983, whose photoelectric sensors great secrecy. were a good addition to ifm's product range. Ifm Managing Director Finally, ifm placed Gerd Marhofer made the initial contact at a trade fair in Düsseldorf.

The co-operation with SUNX was ably assumed that initially an optimal connection. In ifm's order would keeping with the motto "Cobbler, be even larger in stick to your last", it was agreed that ifm would only manufacture proximity sensors and SUNX only photoelectric sensors. At that time, the following year, Japan was hit by SUNX already had an inductive sen- a general economic downturn. We sor with an analogue output in its product range while ifm had already developed the OP photoelectric sen- well positioned with its own phosor type. That was the starting point toelectric product range. SUNX got and basis for the cooperation. All new and further developments were then to be agreed. Regular meetings to exchange experiences and visits If the cooperation with SUNX, which were arranged. After a visit to the ifm production facility in Tettnang, SUNX probably said to themselves, tinued, the market for photoelectric "We can do better than that." They came in through the back door. But up differently today. we realised that. SUNX was request-

imity sensors in accordance with the for a co-operation partner in Japan. agreement. In return, we then developed a programme of photoelectric

> one last large order to fill the warehouse. SUNX probthe following year SUNX began to



produce for stock accordingly. In no longer purchased photoelectric sensors from SUNX: ifm was now into difficulties and was bought by a large electronics manufacturer.

had extensive expertise in the field of photoelectric technology, had consensors would probably be divided



Interkama 1980: The holography exhibition at the trade fair stand is a crowd-puller.

:1980

ifm presents the new "opto-efector" at the Interkama 1980 in Düsseldorf.

ifm introduces



:1981

 ifm opens a branch in Great Britain. The company is exhibiting its products on its own stand for the first time at the Hannover Messe.

Joseph Witt, ifm group of companies, Germany

Final design by Georg Kaluza

for the new opto-efector

photoelectric sensor.

Stock-taking. The first stock-taking of the warehouse was due at the end of 1980. For this, I had merged the existing individual lists into an inventory master list. I did this work between Christmas and New Year, for me, as I had already when the company was closed. But I wasn't completely alone, because at taker, turned up. He was a former employee of Colofil – ifm had bought the building in Bechlingen from the company via its bank after it had stood empty for several years. Colofil. a manufacturer of fabrics, had filed for insolvency. Mr Thurau was taken on by ifm, as was Mr Schreiber, cook at Colofil and then cook at ifm un- which was entered in the goods til the end of his life. They were the first two employees that ifm hired after moving to Tettnang. "The last employees of Colofil become the first employees of ifm in Tettnang." Mr Schreiber was very popular and a street on the ifm site was named after livery note for the first time. him during his lifetime: the "Schreiberallee".

Invitation to the Interkama 1980 trade fair.



Material warehouse at the Tettnang plant.

I had therefore merged the existing partial lists into an inventory collective list. The task was actually nothing new



ised from 1981. A goods receipt number was immediately assigned, This gave them an overview of the receipt book, on the delivery note for the goods and on the goods themselves. In addition, an incoming goods and guality inspection had to be carried out. All this established a link between the goods and the de-



Another special moment was when we closed the "open" camp in mid-1980. You had to record the warehouse, so you had to know where the

the storage locations were labelled with numbers and the shelves were numbered consecutively. This made it possible to indicate exactly where the material was located on the index card. From this point onwards, no material was allowed to be taken Incoming goods were also reorgan- out of or brought into the warehouse without filling in a receipt. warehouse stock at all times. Today there is order picking, but that didn't exist back then. Robert Buck † was particularly pleased about the closure of the open warehouse. Before that, you sometimes wondered why the warehouse was running – as chaotic as it was. Nevertheless, we have always earned money.

Hans-Dieter Gesthuysen, patent attorney

Second distribution channel. The history of ifm spans more than 40 years and includes many episodes, such as the story of syntron gmbh.

ifm devices often have more functions than the majority of our customers need. Nevertheless, we have always endeavoured to offer devices that could do "everything". But such devices were of course also much more expensive than devices with less features.

At some point, we came up with the idea of selling our customers devices that were a different colour and only had specific features. This is why they were offered at a much lower price than our orange sensors that combined all the features. So we would launch our products on the market via a second distribution channel. That was the idea behind syntron. But what had happened in the meantime? in 1970, our product was a new product, no other had been established. At this time, Willi Liesenberg – the salesman who was to sell these products – was confronted with the customer's demand that the devices should first have been tried and tested by other customers before they would use them themselves. In other words, this idea didn't work.

ifm syntron still exists today, but the ifm subsidiary now develops and produces sensors and systems for object and environment detection.



First ifm booth at the Hannover Messe 1981



:1981 Foundation of syntron gmbh photoelectric sensors from for the sale of customised the Japanese company sensors. SUNX complete the sales programme; they will be replaced by in-house developments over the next few years.

:1982

Ifm ecomatic ambh is founded for the : development of control systems.

Another new product group: ifm distributes encoders from IHI; later it will be devices from the market leader Heidenhain.





Jov Rahman,

ifm group of companies, Germany

world. In 1981, I went to England with great confidence after Man- two, two became three, and with aging Director Gerd Marhofer and Sales Manager Horst Jeruschke had given me their blessing - not yet



realising what went along, also fidence and not knowing what to expect.

joys and sor-

rows of house hunting. We stayed in a hotel during the transition period. There the heating would brake down occasionally in the middle of the cold and wet English winter. But my colleague Meinhard Born, who was responsible for international sales at 1996 marked a new beginning for the time – and therefore also for the UK - was not to be deterred. Inven- from England. From then on, I travtive as he was, he simply replaced the heating with his hairdryer.

office turned out to be very difficult, we initially preferred to operate from home until we finally found an office with a backyard atmosphere in 14 years, 20 branches have been es-Staines. However, we got used to tablished on all continents, helping the new surroundings and the exter- ifm to continue to grow. nal conditions improved over time. I was able to go looking for customers again. I also experienced a few unusual things. For example, I was under surveillance by Scotland Yard for a while. The explanation was simple: Our dear South African neighbour turned out to be a mini James Bond and all his acquaintances were bunder surveillance by Scotland Yard.

By 1983, Meinhard Born had had enough of England, partly because his area of responsibility had expanded, and so ifm made me

From Great Britain to the wide Managing Director. One thing led to another – one employee became more employees came more worries. One day, something very mysterious happened. An employee wanted to go for a barefoot walk along the storms awaited Thames during her lunch break; she me. The family never returned. But the shoes stayed. We were naturally very upset and with great con- alerted the police; but this Cinderella had vanished into thin air

> A lot has happened during my 16 years in England. The fact that the Thus began the company continued to grow and spread across the British Isles, moving to appropriate headquarters in Hampton Court, should not go unmentioned at this point. This was only possible thanks to capable and competent employees.

me. Gerd Marhofer called me back elled around the world for 80 days a year or more to spread "the good news of the Marhofers". These jour-As the search for an appropriate neys around the world in 80 days or more have given rise to a popular saying. Wherever my travels took me, a new branch was founded! In

Bernd Busch,

ifm group of companies, Germany

From punched tape to an ERP sys- In 1980, an HP 3000 computer was tem. There was no computer until 1979, and it was not until around 1980 that the first magnetic stripe reader was purchased in Tettnang. This made it possible to process bills no network between the locations of materials. Each item and component had a card number and a magnetic strip with different holes on which the information was stored. For example, if you wanted to build AWE-Data. This a hundred items, you had to feed the corresponding strips into the device and it would then calculate accurately how many components you had to order. This was the first electronic calculating device for materials management (a forerunner of BaaN or SAP), but unfortunately it never worked properly.

copies, the white original was for the customer, the vellow one was for the sales department, the blue copy was for the branch office and the red copy was for the accounts department. So if we wanted to know what the turnover was, we were given a pile of red carbon copies of the invoices every day that we had to add up. Only if we were lucky, doing this three times would lead to the same result. That's how we used to calculate the turnover back then. A title said, "Like lemmings...!" which breakdown by product or customer was not even to be thought about at that time; there was only the total turnover.

sible to process everything manually, the decision in favour of BaaN. so the first Nixdorf computers were purchased. Each ifm location now had its own computer. Every week, a huge 51/4-inch disc would come in from each location that was then read in and added up. This made things a lot easier!

initially purchased in Tettnang for materials management. The first predecessor of the ERP software in Tettnang ran on it. Since there was yet, an extension was created for Essen and the sales department



which ERP system would be suitable for ifm was not an easy one to make at the time. The large software man-The first invoices had three carbon ufacturers such as SAP and BaaN sprang up like mushrooms and a decision had to be made in favour of a common system. The HR department was already working with SAP and after a few tests it was generally agreed that SAP would be the better system, despite the high costs.

That was until the day when our managing director Gerd Marhofer gave me a report from Wirtschaftswoche, which I still have today. The meant that nobody really asked any more questions, but simply switched to SAP. We then entered into further negotiations with BaaN, which was represented by Mr Petersen at the At some point, it was no longer pos- time. A newspaper article triggered

fin Betnebsweittel transporthip Hister entert (4) D melisex Stationer Transportloch sertifit we den Flacks tink lesant-1) 4- Jertin as light of Manfstener Justice - Orgramiole AB-DATA IPM Electronic Gabd Teichstraße 4 Norzopstrolle 45 SCO Valuet 1 4300 Essen 1 Talefon Sa.Nr. 02121/4/5 R& /So 20.05.84 Bechmany Nr. 2256 Genäß Kaufvertrag vom 18.04.1984 stellen wir Ihnen hiermi 1 IIP3245428-015 IIP5000/42 DH 118, 164, ---1 HP30161A Erweiterdog Hauptsp. DN 33,180,--1 HP26218-015-502 UN 3.748.---4 IIP50018A (19A) ADCC 09 21,168,-HP79558-221 Platte 04 157,500.-HP7974A Marnethand IN 58,855.-1 HP25634 Natrixdrucker DM 19,672,-6 HP2622A Terminals DM 37,932,---IP4565040 IP150 DN 14.552 ---Disk 14 5%- 2011 11950 UN 444.751.-Te S MAST DH 62,265,14 10.13 44 DN 507,016,14 Zahlungsbedingung: 10 Tage / 3 % Skonto 50 Tage / netto AlighATA Gabil & Co.KG Millin Willing

Invoice for the first HP server at ifm in Essen. Remarkable: the pricing of the components The very good customer demand necessitates a gradual expansion of the operating resources developed by ifm itself, here is a sketch by ifm founder Robert Buck †.

Berthold Schocker, ifm group of companies, Germany

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important things in our own hands was essential to our founder, head of technology in Tettnang and engineer Robert Buck † right from the start. The equipment, i.e. devices and machines for assembly, were developed and built in-house right from the start. There were several reasons for this:

1. We could go our own way, technologically. One example of this is film technology, something completely new. A flexible circuit board that can be rolled and folded, making it possible to put a lot of electronics in a very small space, which of course has a major impact on the sensor design. Ingeniously conceived and executed, only possible with competent employees from very different specialisms. Or laser technology: for welding, cutting, labelling and adiusting the electronics. A technology that is of the highest standard at ifm.

: 1982	0 0	•
11 March: Dipl. Oec. Bernhard von Spiczak is appointed as a further Managing Director of ifm electronic gmbh.	ifm Tettnang buys its first IT system.	ifm electronic takes on its fir: the head office follows in 198
•	•	*

Developed in-house. Keeping the 2. If the equipment is developed and built in-house, the right employees are immediately on hand to intervene in the event of a malfunction. Another important advantage of this to this day. Of course, not without approach is the opportunity for continuous improvement of the devices and machines, as it is only when working with them that further potential for improving quality and rationality can be recognised.

> 3. This approach ensured that the terms of efficiency and quality, but it sensor design team worked together with the assembly technology specialists. This constellation enabled mutual stimulation, always with the aim of achieving the highest guality and rationalisation.

> Other important things included ifm's without this unique ifm path. It is in-house prototyping department, its own toolmaking shop with plastic injection moulding, the sleeve turning shop and, last but not least, the mechanical and electronic training department.

It was and is not easy for the management to keep the things that are important for the core business in-house. But ifm has stuck with it constantly asking yourself whether the ratio of manpower sensor development to manpower resource development is right or whether you run the risk of becoming too "resource-heavy". It was good to constantly (re)scrutinise this concept in was and is in a balanced relationship that has been continually perfected. Today, the equipment division works with the highest level of expertise, so that in addition to sensors, machines are also sold. The rapid development of ifm would not have been possible an ifm speciality that was and is not visible from outside. I would like to express my highest appreciation to the founders and senior managers Robert Buck † and Gerd Marhofer.

in Tettnang rst trainees; ce in Essen 84



Equipment construction at the Tettnang plant.

Albrecht Bär.

ifm group of companies, Germany and Asia

Sales launch in Japan. I came to Japan when I was 33. We want to conquer all of Japan and Asia from Tokyo and be successful. The biggest problem was that in Japan, "sales" meant something completely different: In Japan, you would sit in the office, waited for customer calls you then answered, and sometimes you would also visit customers if there were technical problems. Sales work like in Germany was not known. So what should I do as a young, motivated ifm guy in a country whose language I didn't speak and where everything was new to me?

came once or twice a week. Then issues would be discussed in detail. and so it went on step by step. I was able to motivate the sales staff to visit customers – that was the first step. Then I noticed that the by train from home in the morning (which meant a two-hour journey for many), made phone calls to custom- Another nod of understanding. And ers and prospective customers, made visits and then parked their car at ifm again in the evening and travelled home by train. That was the daily rhythm of the sales staff. Certainly similar to that in Germany. not efficient.

suggested that everyone could take most reservations at the beginning their car home and drive to their cus- was the first to win a large order for tomers from there, as they all lived 1,000 IB-2020-ABOWs! in their sales area. This would save them a lot of time and enable them to be with the customer sooner. The answer was silence.

After two weeks, I realised that nothing had changed. "What's the problem?" I asked. "We don't have a car park at home, and if we use

the car after working hours, we're not insured if an accident happens." "OK," I said, "from now on, everyone will be on duty for ifm 24 hours a day and everyone will rent a parking space near their home and the company will cover the parking costs." Everyone nodded – and the problem seemed to be solved.

After a further two weeks, there were still no recognisable changes in the system. "What's the problem?" I asked during the next meeting. "If we want to make customer contacts. we have to use our private phone. It then becomes the "company phone" at home. And then our wives can no We had a young interpreter who longer use the phone." Company property is sacred to the Japanese and would never be used for private purposes. "OK," I said, "don't tell your wives you're making business calls and ifm will pay the phone bill. Use the phone and give me the bill at sales staff travelled to the company the end of the month, and then you and your wives can use the phone."

> now that all sales organisation problems seemed to have been solved. we started in mid-1980 with three sales employees and a sales system

It should also be mentioned that Once I had recognised the system, I the sales employee who had the



Managing Director Bernhard von Spiczak (left) with ifm founders Gerd Marhofer (centre) and Robert Buck † in the mid-1980s.

Ulrike Lechtenberg, ifm group of companies, Germany

Surprise call. I realised very early on that the type of collaboration and the working atmosphere at ifm were different to other companies.

I had prepared a translation for the managing director, Mr Marhofer, and handed it in to his secretary. It was, of course, long before e-mails existed. A short time later, my phone rang. "Marhofer." I got a big fright, because the first thought I had was, "What was wrong with my translation? Which mistakes have I made?" It would never have occurred to me that the owner of ifm could just call



to thank me personally for the quick translation.

That really impressed me and is representative of many similar experiences I have had at ifm over the decades.





Football at ifm: The match between Essen and Tettnang/ Vertrieb takes place in Lüdenscheid.



Neon art is the trend: The exhibition stand at Interkama 1983 in Düsseldorf appears in a special light.

1979-1983



68 MILLION DM IN SALES



440 EMPLOYEES

<u>A</u>

183 PATENTS



COMPANIES

£? Product milestones



Photoelectric sensors

:1983

 The sale of the PB80 programmable logic controller marks the launch of the new control technology product area.



1984-88

r-System lektronisch

21212

ifm electronic

Signatur der Zeit Zwei Revier-Ingenieure und ein schwäbischer Tüftler schufen ein äußerst erfolgreiches Elektronik-Unternehmen



Einweglichtschranken



Reflexlichttast

ifm electronic · E48 Essent





Wolfgang Kaiser.

ifm group of companies, Germany

Flow monitoring. In the early 1980s, sensors for the monitoring of flowing media only insufficiently fulfilled the requirements placed on them. This was also clear to the managing directors and founders of ifm and they saw the opportunity to develop this market with a new sensor.

Small and reliable, easy to handle and cost-efficient, producible in large quantities at a high quality – these were the requirements.

Relying on external development support at first, a rather limited product range of calorimetric flow sensors was presented after two years at Interkama 1983.

Of course, the ifm sales force and the customers had to be convinced of the sensor's features and advantages at first.

The principle of the sensor system requires the heat generated in the sensor to be conducted away. By nature, this conduction is done by media such as gases or liquids, whose flow the sensor is supposed to monitor. By blowing on the sensor until one's head turned deep-red or relocating the meeting to the washbasin of the men's toilet, the operating principle of the sensor was convincingly demonstrated during the first training seminars and customer visits.

However, just like the product range, the demonstration and presentation of the products has been refined over the years, so that inundations of the fair stand (which regularly occurred at the beginning) have become a thing of the past...

Sports activities: Table tennis tournament in the still unfinished rooms of the headquarters in Essen.



In 1985, the fover of the headquarters is redesigned



:1984

Detail

Technik.

für

gute

ifm launches electronic flow monitors; development of the new product area "fluid sensors".

ifm identicom (= identity and communication) emerges from Werbeberatung Günther Diederichs.

The model workshop in Teichstraße shortly before Interkama 1986 Back then, the models to present the products were designed and built in-house

Albrecht Bär. ifm group of companies, Germany and Asia

Seminar for boozers. During my visit in Taiwan, our trade partner organised a seminar especially for members of the machine building industry. It look a good two hours and was held at a hotel. Everything went well, and in the evening, some important customers were invited to a dinner.

There were round tables of twelve and of course, the dinner provided an occasion to further discuss technical data, applications and questions. At the beginning, the Branch Manager gave a short speech ending with the words "Thank you and cheers, Mr. Bär". I also thanked him and the glasses were filled with beer and the Chinese "Shaoshing Wine". Then a Chinese "Ganbei", which drinker is regarded as a weak busimeans "bottoms up!". Then we ate and continued our discussions. After about 2 to 3 minutes, the Branch



Manager raised his Shaoshing wine glass in my direction. So I did the same, saying "Ganbei". After another 2 to 3 minutes, his neighbour raised his glass to me. "He is just being nice," I thought. It was only when the next dinner guest raised his glass about 2 3 minutes later that I realised everyone had conspired against me. So I put a good face on the matter, and about half an hour later, everyone had had their turn and everyone was having great fun . No one else had had more than 2 glasses – I had had 13! I smiled and thought: "ifm never loses!"

Of course, one has to understand the Asian mindset. If you say "no", you are seen as weak, and a "weak" nessman.

However, Europeans have the advantage that their bodies metabolise alcohol more quickly. Asians tend to flush easily when drinking alcohol.

Therefore, I came up with my own strategy: I checked which dinner guests already had a slightly red face and then raised my glass to this gentleman. Of course, everyone guickly caught on to my strategy and we ended up having a very successful and pleasant evening.

Without staggering too much, I said good-bye after dinner, and while the others looked rather knackered, I walked straight to my taxi, got into the back seat and slept through the three-hour return journey.

When in Rome, do as the Romans do.

Biörn Lenér,

ifm group of companies, Sweden

Production way up north. The called the mines. We also produced reason for the location in Överlida Korn Senior had a summer cottage in the forest close to some lakes near changed a lot of our technology to a small village called Kalv, approx. 20 ifm technology and started with the km southeast of Överlida. Actually the location in Överlida was from a logistical point of view perfect at that time, straight in the middle of the Swedish single main textile area where a lot of big catalogue postal order companies had their business, in Tettnang so with a lot of transport solutions.

The first location was in a basement electronics. in an apartment building in the center of Överlida, called Cityhuset Another attrac-(=city house).

The production in Sweden started the subsidiary in Sweden has been in the mid-1970s. It made it possi- the possibility to see elks, which ble to react very quickly to customer was quite common in the forest wishes and demands and our ap- area in Överlida. There are many proach on the Swedish market was stories about this. We remember very customer oriented with flexible guite some ifm visitors who reacted solutions. This helped us of course strangely when they saw an elk for to become the market leader in our the first time in the wild. segment.

During the years we produced mainly inductive sensors, normal sized, but also the big ones, internally

MUNICIAL

capacitive sensors, flow sensors and was that Managing Director Heinz infrared heat sensors. After we became a 100 % subsidiary of ifm we production of semi-finished products to replace all standard inductive types. We developed the infrared

> sensors together with the opto-department that we used the same output

tion for the German visitors to

Infrared sensor "made in Sweden".



Namnet har förändrats men...

inte foretaget se, svenska sensoren electronic ab har fri ch med den 1.1.1989 antagit koncerner

Expansion everywhere: Ground-breaking ceremony for the new building of ifm Süd-West in Heppenheim.





The first data line connects

Essen with the branch

offices.

Manufacture in Överlida. Sweden: Final assembly of inductive sensors.





:1985

Bis 135 5-33200 Overlas 30 105 Anat a Teatra 0325-025-03

• The company SSE, partner company in Sweden, becomes a subsidiary of ifm.

54

Dieter Kaiser. ifm group of companies, Germany

Industry work. Back then, there this field of business. Today, most of was no real industry work with our customers are from the automoevaluations etc. There were too tive industry or are directly or indimany "blank spaces", i.e. industries rectly involved with it. These customin which we were not represented. ers also urged us to produce metal Wherever a trend emerged, we im- units. At first, our management demediately jumped on it. At first, we clined to manufacture those, but the did not address big customers at all. Our strict pricing policy did not to install units made of plastic, which allow for this. In this area, we could not keep up with our competitors, very hard. who were prepared to make price concessions. Back then, ifm was not ifm mainly took the way via the end as financially secured as today, and such things were impossible for us. while many of our competitors took For the same reasons, the automo- the way via machine builders. The tive industry was not among our target customers at first. We wanted to avoid becoming too dependent. the market our management decid-It was only under pressure from the sales department that we entered

automotive industry in turn refused made increasing the customer base

user into machines and applications end user market was the market our competitors avoided and therefore ed to conquer.

Inductive sensors become available in metal design and with connectors.

Ulrike Lechtenberg,

ifm group of companies, Germany

Interpreting in the USA. in 1985, an interpreting session before. And ifm decided to set up a joint ven- now I was to accompany the manture with the American company agement to important negotiations! ATC. ifm contributed the products, ATC the distribution network, and so the American market was to be conquered.

Two years later, however, it turned out that the two companies had rather different objectives: ATC was interested in short-term profit, while ifm pursued a more future-oriented strategy. Therefore it was decided to one hand, it established a balance acquire ATC's shares.

aging Directors and owners at that time Robert Buck, Gerd Marhofer and Bernhard von Spiczak flew to the USA to conduct negotiations with the Americans. A few days before the meeting was scheduled, Mr von Spiczak contacted me and asked me to interpret during the negotiations.

Back then, I had only been at ifm for a couple of years. But I knew that Mr von Spiczak's English was excellent and that Mister Buck and Mr Marhofer were fully capable of conduct- several hundred employees and is ing negotiations in English as well. Therefore, I was very surprised when they asked me to support them at this meeting. And I was very nervous, because I had never conducted such

The negotiations went on for several days. Our management had asked me to interpret consecutively, i.e. let the speaker say a few sentences and then interpret these sentences into the other language respectively. Only afterwards did I realise how advantageous this kind of interpreting was for our management. On the between them and the Americans. as everyone could speak their moth-For this purpose, our three Man- er tongue. On the other hand, it was very clever to have me interpret whole passages of speech, because our chief negotiator, who had understood the English explanations without problem, used the time during which I spoke to carefully draft his answer.

> The negotiations were very successful. With the successful takeover, ifm efector USA emerged from the joint venture. Back then, only a handful of full-time employees worked for the ioint venture. Today, ifm efector has one of the biggest ifm subsidiaries!





New production hall at the Tettnang plant.





:1985

 1 January: Cooperation with the company ATC in the USA under the name of efector inc.

In a first step, the production department at the Tettnang plant is extended from 4,500 to 10,000 m².

:1986

Internal communication is

key: ifm starts publishing a

notice, in three languages.

magazine for employees, ifm

For the first time, 1 million efectors are produced within one year.



In the mid-1980s, ifm's complete product range easily fits on a magazine insert.

Gerd Heß, Managing Director HUPPERZ Systemelektronik GmbH

Since 1986, the company HUPPERZ Systemelektronik (which started as a sole proprietorship and today is a limited liability company (GmbH)) ex- was achieved, ifm electronic's high panded its business relationship with ifm. The cooperation started with the construction of different demo boards for ifm identicom.

The first development order and delivery agreement were concluded In short: ifm electronic is a company for the E65000 SSI controller. Since then, approx. 60 different products have been developed or manufac-

tured according to production specifications (e.g. from ifm ecomatic). In 2011, a turnover of EUR 290.000 reliability lead to a long-term partnership. Besides, the two Managing Directors, Gerd Heß and Johannes Hupperz, used to work for ifm for a few vears.

for the future!



57

Wolfgang Weiland, ifm group of companies, Germany

Hot service assignment. Let me tell you about a service assignment at Saarstahl in Völklingen. They had a continuous casting plant in which 56 of our ST3204 flow monitors and 14 of our SR0012 evaluation units

were installed – back then, these were rather impressive numbers.

The problem was that the sensors at that time did not respond very well to fast temperature changes, which again and again lead to faults when the cooling water temperature increased too rapidly.



In order to help the customer

guickly and unbureaucratically, my colleague Wolfgang Kaiser and I went on a service call. What we did not know: Temperatures are very high in steel plants, particularly at the continuous casting plant (approx. 33°C), which makes working rather difficult. Setting the 56 sensors took the whole day. But in the end, the customer was very satisfied – and we were finally relieved of the heat.





The branch office ifm Nord constructs a new building in Großburgwedel near Hanover.



Δ

:1986

ifm presents the first in-

house development in the

; field of control technology:

with award-winning design.

ecomat 100 for

industrial use –

Opening of the branch office ifm Nord.



efector inc. in Exton. Pennsylvania, USA.

ifm sales engineer Wolfgang Weiland during his "hot service assignment".



In November, ifm's first

pick-and-place machine is

put into operation at the

Tettnang plant.

Members of the management at the reel-to-reel placement machine at the Tettnang plant.

DN- oder OFF-Im

Storage in

Wattenscheid.

Bochum-

:1987

efector inc. in the USA becomes a 100 % subsidiary of ifm . of storage space.

58



B.M. Friedrich develops the first ifm controller at ifm ecomatic: the ecomat 100.

Bernhard von Spiczak, ifm group of companies, Germany

Tradition at ifm. To celebrate the dinners. He took my joke seriously, grand "opening" of the new/old branch office in Exton, Pennsylvania, there was a big dinner. Among the Later, we of course explained to him quests was young engineer John Ibbetson (today Sales Manager in the USA) who was having his first day at ifm . As we were celebrating a very special occasion, we had decided on a very exclusive restaurant. worried throughout the dinner until

welcomed Mr Ibbetson as a new member of the ifm family and not quite seriously informed him that at ifm, it was a tradition that the newest employee had to pay for such

and looking at the prices on the menu, he became visibly nervous. that it had all been a joke, and he was verv relieved.

Years later, we talked about this evening, and he told me that he had I gave a short speech. At the end, I told the truth about how much he

> would have to pay and how he was supposed to explain this all to his wife.



Move to the new warehouse in Bochum-Wattenscheid, 250,000 items in 1,500 m²

Misako Okada,

ifm group of companies, Japan

Tuesday is Toyota day. The car manufacturer Toyota has its own standard for bought-in equipment, devices bought by Toyota. Under including for sensors. The devices this number, all relevant informaare checked using different criteria such as performance, safety, uni- article number, price etc. can be versal applicability, procurement, accessed, which allows the maindelivery, prices etc. Only devices that have passed all these tests receive a so-called TMS standard number. tenance departments have some These devices will be preferably used of these Toyota devices in stock to by Toyota. This means that the TMS be used in emergencies. Of course, standard is indispensable for a suc- their shelves were well-stocked with cessful cooperation with Toyota.

In 1983, ifm opened a branch office Omron devices used and offered the in Nagoya. The most important cus- maintenance tomer in the Nagoya region is Toyota. department Therefore, it was very important for corresponding our branch office to obtain the TMS ifm alternatives. standard for ifm sensors. Devices Due to the that had never been used by Toyota had no chance of receiving the TMS status. It was important that Toyota had made their own experience with the device.

We decided to initially focus on Toy- number for the ifm devices. An ota's maintenance departments. Toyota has many plants, and every plant partments. It was very important to nance departments. This facilitated visit these maintenance departments ordering for the maintenance deon a regular basis, as we wanted them to get to know us. Mr Sugiura, branch manager at Nagova at that time and later managing director of Toyota made good experience with days visiting Toyota. Tuesday was his Toyota day. Each maintenance department (more than 200) received a folder containing an ifm catalogue and documents. He met so many people at Toyota that we received more and more enquiries regarding bleshooting, our contact with the ard. maintenance technicians grew closer and closer.

Besides the TMS standard, Toyota assigns a registration number to all tion of the manufacturer such as tenance department to order the right replacement units. All mainsensors from our competitor Omron. Mr Sugiura noted down all types of



overview of the ifm devices and their registration numbers was created has approx. 5 to 25 maintenance de- and put on the wall at all maintepartments and we received more and more orders from Toyota.

ifm Japan, used to spent his Tues- ifm devices; we adjusted the prices according to the registration list and made sure there were sufficient Toyota devices in stock in our warehouses and our agents' warehouses. This helped us to meet all requirements of the TMS standard. In 1987, three years after the first Toyota Tuesday, ifm sensors. Thanks to our fast trou- ifm sensors obtained the TMS stand-





ifm starts manufacturing in Le Bourget du Lac

:1987

 9 June: ifm obtains the office building in Teichstraße 4, in the town centre of Essen.

The new production hall in Tettnang is completed.

18 April: Butron and ifm ecomatic

1988

merge into the new ifm ecomatic gmbh for the development and production of evaluation and control systems.

Ruth Weidtkamp, ifm group of companies, Germany

David versus Goliath. The highly qualified employees of the patent department of an electronics giant ginning of the 1980s, the relatively small company ifm actually sued the global corporation for infringement of its patents ("inductive proximity switch" and "electronic, preferably non-contact switching device")! ifm wins the case before the Düsseldorf Regional Court and the opponent is ordered to cease and desist and pay compensation.

The electronics giant reaches into his bags of tricks and tries to have ifm's property rights invalidated by filing a revocation action.

mination and stamina. Focusing on these strengths and benefiting from the expertise of our patent attorney,

November:

ifm France's newly created

du Lac starts business.

production site in Le Bourget

Dr Hans Dieter Gesthuysen, we battle our way all the way up to the Federal Court of Justice. On 10 March had never imagined this: At the be- 1987, Mr Gesthuysen and I travel to Karlsruhe. On this memorable day, David and Goliath meet before the Federal Court of Justice's Civil Panel X for oral proceedings. Finally, the judge suggests that the two parties conclude a settlement The settlement negotiations end with a bang: The electronics group makes

future!

This amount, paid to ifm on 31 May 1987, was used for the development The situation calls for courage, deter- of new products and thus became an investment in the future of our company.

> The sales tool "Beute". programmed by the IT department, makes it possible to check the figures every second . For the first time. turnover exceeds DM 10 million per month.



a one-off lump payment amounting to DM 6.5 million for the license granted retrospectively and for the

1984-1988



150 MILLION DM IN SALES



1,300 **EMPLOYEES**



173 PATENTS



COMPANIES

.....

Product milestones





Flow sensors



Control systems



1989–1993







BUILDER BER STOR

By the end of the 1980s, there were first plans concerning the reconstruction of the headquarters between Teichstraße and Gildehofstraße. These plans, however, were dismissed again.



ifm group of companies, Romania

after visiting a customer.

We wanted to turn into the street restructuring of the country. The where the National Museum is when there was a sudden holdup. The road was completely blocked. There were many, many people around us. Mr Kuhn turned to some teenagers who stood close to our car and asked what was going on.

Wind of change in the East. One We heard people shouting together, western make, and the German li-Friday in November 1989, Mr Sdenek "Havel, Havel!" One of the teenagers cense plate. A huge crowd of people Kuhn, member of ifm's Czech sales told us that Václav Havel and Alex- gathered around us and applauded force, and I drove back to Prague ander Dubček were at the entrance, us in broken German, "Thank you in front of this mass demonstration, for supporting our cause as Geradvocating a complete political mans!" "Velvet Revolution" had just been I will never proclaimed.

> We opened the car windows and shouted, "Havel, Havel!" as well. The people, most of them were young, looked at us, at our car, a

:1989

Further development of the proximity sensors with efector guadronorm (NC and NO / PNP and NPN in one unit).

The ifm logo and other brand logos are presented with a revised design.

forget this mo-

ment.





Brigitte Bostel ifm group of companies, Germany

A new beginning. To begin with, we moved into an open-plan office in Weberstraße in Essen. That was guite impressive because now were a proper and representable company. When I came back from my maternity leave, however, everything had changed. I



came to work and thought, "Good grief! You won't make it!" I was very nervous because I had no idea what my tasks would be now. Before, I had known everything, but now I was completely overwhelmed by the huge range of new products. Before, I had been able to give technical information on the phone every now and then because I had been familiar with all the products.

Of course, I had heard a lot about ifm during my absence, how big ifm had become, about the "efector Stübchen" and everything, but despite the new impressive image, I had always identified with the company - also during my maternity leave - and was proud of its success. My heart has always been attached to ifm. Nonetheless, the new beginning was difficult, despite my strong connection. Juanita Staub and Gerd Marhofer, however, gave me their support, and I started working on the organisation of trade fairs.

ifm's growth is dynamic: turnovers per product group.





Michael Rohe, NOBAMED Paul Danz AG

All my experiences with ifm are positive - what distinguishes ifm's employees is their great technical competence combined with flexibility and reliability.



Family day in Tettnang in September 1991.

An end and an end an en	in the der Tourne sin dauch für is- sogen zich - und der Stur sin sin- mer. The Releasant and der die Geschen er isopartung und befräum sin- ter isopartung und befräum sin das Jacobsen unger berei sin das Jacobsen unger berei sin das Jacobsen unger berei sin berei um gestach haben. Mer die State and Mer der Mer die State and Mer die State and State and Mer die State and State and für Kunde Mark. Under Handeln zu ihrer für Kunde Mark.	Beaching Services of Services

The film technology department moves within the plant in Tettnang.

As the only European sensor manufacturer, ifm elec- tronic presents application solutions at the ENEX-ASIA in Singapore. 1 January: At the plant in Tettnang, the film technology department a hardcover book for all employees. Additional office space is rented in Teichstraße 8.	1990	•	0 0	: 1991
	manufacturer, ifm elec- tronic presents application solutions at the ENEX-ASIA	Philosophy, Principles" as a hardcover book for all	Office space is running out at the headquarters in Essen. Additional office space is	film technology department moves to new and bigger



Bipin Jirge, Managing Drector of ifm electronic India (r.), with Albrecht Bär (middle) and the German Ambassador at the IMTEX trade fair in Delhi.

Albrecht Bär.

ifm group of companies, Germany and Asia

Sensors for India. I received a call the discussion started. He did not from India. A young engineer, who believe me and insisted on calling his had studied in Germany, wanted boss, claiming that the latter knew to establish a company and distrib- more about these things. More waitute our products as a trade partner. ing. After about 10 minutes he came After the first business details had back – he hadn't found his boss. been settled, I needed to prepare for my first trip to India. The most I showed him a circuit diagram I important question was: What do I found in my documents that had abneed to take with me? The answer solutely nothing to do with sensors was simple: catalogues in English and told him, "Look. How much is and product samples. Preferably the a transistor, how much is a resistor, large ID series for the steel industry!

I had it all in my luggage when I He became more confident. Then I set off to India. With about 10 kilo- asked him another question, "This grams of excess luggage, twelve IDs is only a very small part of the elecand other types, I managed to fly tronics. How big is a TV set and how to India without having to pay any many parts are in it? By comparison, extra fee.

When I arrived, all passengers were waiting for their luggage. We waited and waited. At last, the first pieces of luggage arrived, mine included. The new suitcase looked guite dilapidated, and there was a huge chalk mark I guickly packed my things and dison it. I took the suitcase from the appeared. I met Bipin Jirge – today belt, cleaned it a little and went to he is ifm India's Branch Manager – at the exit. All of a sudden, a loud voice the exit. He asked me if there had shouted, "STOP". I turned around, been any problems and why it had and saw a customs officer with a taken so long. I told him the story. stern expression on his face, waving He laughed and said that I had reat me to come to his table. "Please ally been lucky because the customs open your luggage." The first thing duty for sensors was 300 percent! he saw was, of course, the catalogues and then the sensors. "What Just imagine I would have had to pay is this and how much does it cost?" that in addition to the punitive tariff! he asked. I said that they were switches at one Dollar apiece! Now

etc.?"

such a switch cannot cost that much, can it?"

He looked at me, bewildered, seemed to think for a moment and then said, "Pack and go!"
Wolfgang Schupp ifm group of companies, Germany

In the beginning, the task was to find an office for our sales activities. office continued to grow, and there That, however, was easier said than was no more space for us. Today, the done. Our first attempts at locations branch office is still in this building. we would have preferred were not The first regional office was temsuccessful, and so I decided to rent a mobile home to be more flexible while looking for an office. After the Fall of the Wall, there was no infra- over our desks. structure - and no hotels.

My family and I occupied the car really was the park of an inn called "Zur Kanone" best office we where we were entertained with could find. great hospitality. From here, I continued my tireless search for an office I fondly rememfor our sales force, however, without any success. This could not go first few times that ifm Managing on forever. I asked the landlord of Director Bernhard von Spiczak visited the inn for a room I could use on a us. We were driving on a motorway temporary basis. This seemed to be that was full of construction sites and rather unusual, and he needed some drove straight into a traffic jam. Since time to think before he offered me it did not seem to get any better, we a very modestly furnished room for lost our patience at one point, and I 350 Deutsche Mark per month. This simply made a full turn right on the room became the office from which motorway and drove back on the I would operate for three months. other side to take a different route to The room did not have a bathroom. our destination. Since there was no The bathroom was outside. Also, the heating did not work in winter. At minus 20 to minus 25°C! All you could do was sit under a blanket and work in bed.

One day, finally, I got a hint at the inn's regulars' table. One of the villagers told me that his neighbour wanted to sell real estate. I did not think twice. I bought the plot and built a semi-detached house there. My family and I moved in, too.

The early days in East Germany. We had to move out again, however, after a few years because the branch porarily opened in Gera-Liebschitz.

> Here, we had ants walking It is hard to believe, but it

ber one of the

guardrail in the middle, this was the easiest and fastest solution. Mr von Spiczak was not guite used to such manoeuvres, and I must admit that I enjoy recalling his reaction.

The Fall of the Wall: The first package with ifm products delivered from the branch office in Heppenheim to the GDR.



Ants on the table: ifm office in Gera.

First ifm base at the inn "Zur Kanone" in Tautenhain, Thüringen



12 -----

:1991

 Automation technology for the "five new German states": beginning sales activities at ifm East.

Elektronik nach Maß ecomot cosco weil richtige Entscheidungen sicher machen.

Tailor-made electronics: ifm develop and sell customer and application-specific controllers.

ifm-notice – the newspaper for employees of the ifm group of companies - is published with a new concept.

Outside the office: branch manager meeting in an unusual camping atmosphere in the early 1990s.



Branch office meeting at the campsite.





Who won the sales competition? "Legal" arbitration that was not taken too seriously plus evidence.

Interne Mitteilung

in der Anlage finden Sie die Kopie eines Dokumentes, das am 13. April 1991

aufgenommen und durch die Zeugen Lechtenberg und Hentschel bestätigt

Hieraus ergibt sich, daß nach den dem Unterzeichneten vorliegenden

Unterlagen Herr Giesemann dem von der ifm ost erzielten Umsatz in seiner

Ordnungsgemäß macht der Unterzeichnete auf diesen Tatbestand

Das Originaldokument steht auf Wunsch zur Besichtigung zur Verfügung.

aufmerksam und überläßt den Beteiligten alles Erforderliche.

PE/kh-sg Essen, 13.01.1992

ពីកំពា





ifm mascot. "efi". promoting the new telesales service.



Klaus-Peter Prause, ifm group of companies, Germany

en. The telephone rings, I answer, say hello, mention the time of day, my name and ask politely what I can do for the person calling.

"Listen, your flow monitors that we through even bigger pipes. have installed at the construction ly. Sometimes they flash, sometimes they don't. You better send one of your people here to have a look..."

that's what I said," he hisses back. I the application. Since I have planned lowing week, this would be a good opportunity to have a look at the that time there were no emails yet. I stench hits our noses. A rotting fish ask for a translation of the fax and send it to our branch office in Hamp- thereby impairing the water flow. ton, England.

ises of a big automotive manufacturer, at a distance from the workshops. Pipes with a diameter of an arm lead to an open basin. This basin is supplied with water from a nearby river

site in England do not work proper- I have seen many cooling water Shortly supply systems for welding guns on robots, but this is new to me and I am getting curious. We approach and screens. the "crime scene", the place where "Hm, sometimes they flash and some- the ST360 flow monitors have times they don't?" Lask politely. "Yes, been installed on a welding robot. Everything according to plan. The ask a few routine guestions about guestion whether there is usually enough water in the pipes is ana business trip to England for the fol- swered with "Yes". The pump is roaring, but the indication on the flow monitor is not stable at all! application. I mention this to the man Surely something must be wrong? on the phone, and he appears to be We ask the technician to remove a guite pleased about it. The customer flow monitor. The good man does sends a few more details by fax – at as he is told, and soon a ghastly has rolled itself around the sensor tip.

:1991

division.

The hot line to ifm – launch

of the new telemarketing

A mission that stinks to high heav- A few days later, we are on the prem- The remains of the fish are removed - and the flow monitor functions like the customer is used to from many applications. The customer is baffled, and this unusual "service call" ends with a slightly embarrassed "Thank vou".

> after. the customer installed filters



if m electronic gmbh mos-2l

Mit freundlichen Grüßen

Vorhersage am nächsten gekommen ist.

Anlage

Verteiler:

VI - Herr Kaiser

NO - Herr Giesemann

SW - Herr Schlotz

Sehr geehrte Herren,

Umsatz Ost

wurde.

Behind scaffolds: the headquarte in Esser

70





Detlef Keller, Michael Perplies und Jürgen Sockel, ifm group of companies, Germany

Telesales. In 1990. Gerd Marhofer introduced the ifm telesales service in order to support customers also by phone. In 1994, one of our colleagues began taking care of nothing but incoming phone calls. The team grew as the number of calls increased. And when even more calls came in after the 0130 (5659) had been adopted, which was free for the person calling, a system to distribute the calls became necessary as well. After 1996, the ifm Service Center (SC) officially became a separate department within the VMD main department (Sales Marketing Services).

At the same time, there was a dramatic increase of fun calls from "creative kids". So during breaks and after school, the young SC team would receive a great number of calls from singing and rhyming kids. And heaven help us if we would respond! In that case, the redialling button would definitely be used more than once!

What is now the home, national and global data network consisted at the beginning of the two departments of a local network with a PC – approximately 386 SX with 16 MHz, 1 MB RAM, 40 MB hard drive, 5 ¹/₄-inch floppy disc drive: large, floppy, little storage space), 14-inch monochrome monitor - and the software Open Access!

Each telesales colleague had such a compact "network" at their disposal and was responsible for the weekly floppy disk data backup. In practice, this meant: Every Friday, after lunch, the telephone service would be over, and the data backup was initiated. The read/write heads of the telesales floppy disk drives would rattle along for hours. Those were the glorious early days of information technology...

Back then, in Teichstraße 8, each colleague sat in their own cube, surrounded by 1.70m high sound protection panels. You could hardly hear or see a thing.

Sometimes everyone would turn their heads up because someone would shout and solemnly proclaim, for example, that a hundred IA0032 had just been sold. That was a reason to celebrate, and every now and then we would indeed open a bottle of sparkling wine. While the floppy drives were rattling.

Friedhelm Hilgenstöhler. ifm group of companies, Germany

Dress code in Switzerland. It was my first trip to the branch office in Switzerland, in the early 1990s. I had almost reached the Swiss border when I realised that I had no tie with me. Just in time. I could still get off the motorway and drive to Weil am Rhein. It was not yet 3:00pm. The department stores were closed. To my surprise, they also stayed closed after 3:00pm. This is

how I found out that stores stayed closed on Wednesday afternoons. I decided to drive on and to keep my eyes open. I was lucky. In Härkingen, close to the branch office, I found a shopping centre. And I did indeed find the missing piece of equipment there. So, the day after, I wore the new tie for my official visit. When I came to the branch office, the colleagues



were wearing casual clothes. I was very surprised since I was used to very different customs. So I presented my topics, wearing my tie, and the colleagues participated in their casual clothes and sandals. When I said goodbye to Toni Schaad, he said, "Next time, you will come without a tie. Ties do not belong in our dress code." I wish I had known this in the first place. I am not that keen on wearing ties myself.

ifm branch office in Prohunice. Czech Republic, close to Praque. move-in: 1996.



TAP

%



Wolfgang Petsch with Kamila Mask-

ova at the office in Prague.



At Hannover Messe, ifm were first to present a fully functional version of the AS-i field bus system (Actuator Sensor Interface).

syntron gmbh now signs with the firm name ifm syntron gmbh.



Kamila Maskova. ifm group of companies, Czech Republic

Christmas cake in September. One morning in September 1990, at the trade fair stand of the company where I had been working, a German customer ar-bring new technology from Germany. rived accompanied by my then-boss. The two wanted something for breakfast. However, since there was no staff at the stand, the kitchen was closed. I offered them cake and coffee. The German customer looked at me with bewilderment and said, "No, I do not want to eat that!" I could not believe it! I had searched the entire fair stand for something edible, and when I had finally found something, this gentleman would refuse it? Now I wanted him to eat the cake even more and actively convinced him to have some of it.

Half a year later, I received a call from an unknown

I met this gentleman at the best café in Prague. He

told me that, a few months earlier, I had convinced a customer to eat Christmas cake in September for

breakfast, and that such skills might come in handy,

They needed a part-time secretary and offered me

three times the salary I had as a graduate mechanical

This is how I came to a very small office in February

1991. There was one colleague, seventy-year-old

Zdenek Kuhn, who showed me a Russian typewrit-

er that I was supposed to use to write some kind

of letters to potential customers. That was the first

ing a twenty-year-old Russian typewriter? In socialist Czechoslovakia, we had always believed Germany to be at least a hundred years ahead. Well, Mr Kuhn

engineer. I did not think twice and said, "Yes".

too, when selling ifm sensors.

gentleman. He told me he had an interesting offer.

told me that we would get a new office in a month and that our boss, Wolfgang Petsch, would then

We got the new office. And only the Russian typewriter moved with us. When Mr Petsch came, he brought ten ring binders from Germany and two plastic boxes with empty customer cards. The ring binders had numbers and hand-written labels on them. I also got a phone register with three phone numbers:

1. Mr Wolfgang Petsch: of course, he was our boss!

- him!
- league in Essen for years to come.

This is how we started. Zdenek Kuhn and I in Prague. Wolfgang Petsch would come every second Monday, and the two gentlemen went out to see customers. I did the office work and prepared customer calls for the weeks to come.

After a couple of months, it became obvious that we needed to see the customers more often since they were calling us and had technical questions, too. I got a company car and would also call on customers from now on.

shock! Until then, I had always worked with a PC - Those were happy and really successful years. And which was really modern back in 1991. And now I it did not take long before we celebrated our first was supposed to work for a German company us- million in Czech crowns.

gmbh is certified according to ISO 9001.

 The first East European ifm ifm electronic subsidiary is founded in the Czech Republic.

Foundation of the branch office in Slovakia.

:1993

Evaluation of the visit reports from the Brno fair in 1992.

2. Mr Heinz Kostedde: Regional Export Manager in Essen, but we were strongly advised not to call

3. Ms Brigitte Weiss: for orders, and my best col-

1989-1993



214 MILLION DM IN SALES



1,500 **EMPLOYEES**



225 PATENTS



COMPANIES

......

Product milestones



quadronorm technology



Industrial communication

New markets, new service.

Construction talls only and Automations and a address based, one ordered linearies and declarance between the address of the address of the device of the address of the address of the former of the address of the address of the former of the address of the address of the former of the address of the address of the former of the address of the address of the folder of the address of the address of the folder of the address of the address of the folder of the address of the address of the folder of the address of the address of the folder of the address of the address of the folder of the address of the folder of the address of th

Elektronischer Katalog





Meinhard Born,

ifm group of companies, Germany

In the beginning was milk. In the dairy industry. Adverts and press ifm's philosophy, published for the first time in 1990, the chapter called "Market" contains the following motto: "ifm is a globally orientated company. The centres of our activities and investments for the foreseeable future will be in the U.S., in Japan and in Europe. However, we will not close our minds to opportunities in other markets."

This was the reason why I suggest- in collaboration ed at the AK-Global in 1994 that all countries should cooperate un- is how the first ifm EVT type socket der my direction. A market analysis for the food industry was developed with end users and OEMs from the and placed on the market. food industry was carried out by the university in Le Bourget du Lac in At the AK-Global in Paris in 1997, order to find the greatest common denominator to market ifm products. even presented the first prototype of

Gasparini from ifm France and Dieter Ebbinghaus from ifm Germany presented the results of the market analysis. In addition, weak points ucts for the international market were defined. The selection was ter, they must be 100 % functional thoroughly evaluated.

Finally, the committee decided to begin by marketing this selection in the dairy industry, a part of the food industry. More than 80 countries participated in the campaign. The basis for it all was a special ring binder containing technical datasheets of all ifm products for the dairy industry. for special applications in the food Of course, it was translated into all corresponding languages including the accessories, so that the customer could immediately plunge into com- the AK-Global in 1994. plete automation.

In 1996, the worldwide marketing campaign was rolled out. It was accompanied by direct advertisement addressed to potential customers in

releases in all countries also supported the campaign.

At the same time, the product management developed new products meeting customer requirements in the food industry

with the developers in Tettnang. This

1.6

Berthold Schocker from ifm Tettnang a proximity sensor specially designed At the AK-Global in 1995, Mr for the food industry. This was also the birth of the "shocker test" that is still famous today. In this test, all ifm products for the food industry are exposed to an extreme temperature were shown up and possible prod-shock. After first being immersed in ice water and then in boiling waaccording to a special test protocol. This set a new ifm guality standard.

> Within the first year after the marketing campaign had started, more than 8.000 EVT sockets were sold to the dairy industry. ifm became renowned as a competent manufacturer of automation technology industry. A great success that was initiated by all representatives of the countries that had participated in





ifm celebrate their 25th anniversary. On stage: Gerd Marhofer (2nd from the left) with his colleagues from the Management, Juanita Staub and Horst Jeruschke, on the right: the host, Detlef Keller.



ifm anniversary poster, inspired by the popular PC game, Tetris.

1994	0 0	0 0
Foundation of an ifm company in Malaysia.	ifm opens a sales office in India.	ifm's first elect logue for PC.
		0 0 0
		0 0 0

Thomas Gaisser, Sales Manager, motrona GmbH

The first business transactions took place in 1993. After a couple of initial project deals, motrona became a reliable ifm supplier producing bough-in parts that are tailored to ifm's requirements and feature ifm's brand labelling. The down-to-earth and friendly way of communicating and the goal of growing together on the market were among the reasons to continue our collaboration with ifm. The contact was very personal, and technical problems were always dealt with in an uncomplicated way. ifm electronic is a fair and reliable partner – even in difficult times!

Jöra Schütze, ifm group of companies, Germany

Much ado about the oscillation build-up support. In 1995, if melectronic unexpectedly wins a lawsuit involving several millions concerning patent infringement against a competitor. This company, holder of the oscillation build-up support patent DE 3016821C2, accused ifm of massive patent infringement concerning all inductive proximity sensors produced since 1982. The distinguishing feature: high switching frequency thanks to an oscillation build-up support.

In a counter-suit, ifm electronic proves the invalidity of the patent and convinces the competitor to make an agreement. The competitor signs an agreement that keeps the patent intact. However, the competitor pays the legal cost of the opposite party (ifm) while ifm does not need to pay any compensation and may also use this patent for free in the future.

n's first electronic cata-

Michael Paintner, Klaus Unger, ifm group of companies, Germany

Electronics under control Interest- dirt. snow and rain. A "normal" caingly enough, ifm never intended to become an automotive supplier. It all began with the contacts at the Han- dynamic capacnover Messe.

With the goal of making it possible requirements. to open a vehicle without a key and This capacitive in real-time, the company "Huf" visited our Hannover Messe stand to suppress dirt in the mid-nineties. They found the and beginning solution for their application there: our film technology. Nothing else would suit the particular shape of the door handle. They wanted to teracting with the door control. This buy our technology immediately. However, we did not agree to this.

At some point, we got a request concerning the development of a capac- For Huf, this collaboration was one itive sensor for door handles. Actually, there was the regulation that ifm ments. By collaborating with Huf, would not supply the automotive in- we were able to slowly approach dustry with products. The reason for this was that the high quantities, the business behaviour and the dictat- And this for one simple reason: Huf ed prices did not comply with ifm's were dependent on our capacitive corporate philosophy, "growing suc- sensor that was flexible thanks to cessfully in security!". With regards our film technology. There were to Huf, the Management decided to not many other options at the time. stay faithful to the principle of not This is why, in the background, Huf approaching the automotive indus- caught a lot from their OEMs. Theretry actively through advertisement fore, we could start by focusing and customer acquisition. Since this on the technology and by making case required our core competences a capacitive sensor fit for outdoor while the technological risk was very small, we decided to cooperate with the capacitive sensor and the imple-Huf.

The first tests with a capacitive sensor entire industry back them. (KI) were immediately successful and met all expectations. However, the sensor was attached to the outside of the vehicle and therefore exposed to extreme exterior influences like

pacitive sensor would be far too sensitive. This is why we developed the

itive sensor that was to meet all sensor was able rain and thereby malfunc-

tions while in-



was possible without straining the car battery too much and without enabling unauthorised access.

of the very first electronic developeverything else that is required from suppliers of the automotive industry. applications. With our two patents, mentation of the "mechanical key", we were innovative pioneers in the

The mayor of Tettnang, Harald Meichle, honours Robert Buck † with the golden medal of the city for his achievements for medium-sized businesses and the economic development of the city.





ifm electronic eil richtige Entscheidung sicher machen.



Study for a new type of pressure sensors – however, still in the rectangular design.

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Gehe direkt zu...

The application sensor

@2001 ifm electronic gmbh - Germany

1994	: 1995	•
Product launch of pressure sensors with innovative ceramic measuring cell and ground-breaking housing design.	7 August: ifm founder Robert Buck † receives the golden medal of the City of Tettnang.	ifm unexpected lawsuit involvin millions concerr infringement ac US manufacture

Rainer Sasse, ifm group of companies, Germany

ifm on the internet. (Excerpt from an article about the internet in the magazine for employees, ifm notice, 1996).

In view of the dramatic growth of the internet last year and the available sources of information, it was only obvious to present ifm there.



By now, there are 30 50 million participants from all kinds of areas, such as companies, private persons, associations, organisations and universities who use the world's biggest data network.

Five pages (English and German), or "web pages", as they are called, will inform curious "inter-

net surfers" about ifm, our products and worldwide locations. The design was made by ifm identicom. Several parts of these presentations are interactive.

It includes, for example, a map of Germany with all locations. If you click on one of the locations, its address and phone and fax number are shown in a window that opens. Moreover, it is possible to send ifm an electronic message.

How do "curious surfers" find ifm on the internet?

You find the ifm presentation by entering search criteria in the search server (e.g. ifm or sensor).

What happens now?

After a test period of about six months during which we will be constantly informed about how often our website is visited, we will decide whether ifm's presence on the internet will be extended.



edly wins a ing several erning patent against a major rer.

Peter Winterscheidt, ifm group of companies, Germany

Toy cow and snow globe. Those mailing productions in the mid-nineties were indeed guite elaborate. It all began on Gerd Marhofer's initiative. He wanted us to look into a trend that was very new in those days: dialogue marketing. Communicating new products on the market and strengthening existing customer relations were the goals, along with providing advertising support for the rather young team from the ifm Service Center. The contact with the customers was almost exclusively by telephone, and printed mail was the only way to provide customers with an image of ifm and our products. Well, the internet

did not yet exist, and there was no ifm website...

A team of eight colleagues began to deal with the task and to develop a concept. The style of future mailing campaigns was quickly defined[.]

ifm mailings were to stand out due to their shape, size, creativity and content. The quality of the new productions was particularly high

with corrugated cardboard boxes that were sent to a hand-selected number of customers. We surprised our customers with pyramid-shaped cardboard displays, an IND demonstrating its robust and water-proof design in a snow globe, a Rubic's Cube illustrating the infinite possibilities of the IMC that was brand-new back then, a message in a bottle that was sent to breweries, an ifm newspaper with a coffee mug, coffee, milk and sugar in an elaborate presentation box, and much, much more. One of the most popular gimmicks, however, was the toy cow squeezed into a tin: For the dairy industry, we packed a product flyer along with a toy cow into a tin. The tin that had a specially designed label was sent to the customers and caused a sensation. The reactions from the ifm staff would already have been worth the effort. It was fun!

It took some time, but in the end these extraordinary mailing campaigns would solidify customer relations, generate sales increase and help establish the ifm Service Center.



IND dual sensor in the new direct mailing campaign.



Deputy Managing Director, Franz Müller, talking to colleagues in the USA: one of the very first video conferences at the Tettnang plant.

> The new ifm syntron building in the industrial estate Schäferhof in Tettnang was finished in 1995.

RPD sensor (Rope Position Detector) for the ropeway and cable car manufacturer, Doppelmayr.





:1996

With the new presence on the internet, ifm offers information and services online.

 Premiere: ifm produces more than five million sensors and circuits.

In Exton, Pennsylvania, USA, an ifm production is being established.

Control system with a new orientation: ecomat R360 for mobile vehicles.



Karl Brückner,

ifm group of companies, Germany

The biggest (and highest) job. In cooperation with the ropeway and cable car manufacturer, Doppelmayr, we developed a safety switch in 1996/97 that was produced two years after. It is a real highlight in syntron's history. Back then, we were the only ones capable of supplying such a product, only allowed to ride four metres per especially from a technological point second - before our sensor came. of view. Moreover, it had a patent. Thanks to our sensor, they now could Hence, no other supplier could manu- ride at twice the speed, and it was facture such a sensor. In return, how- even safer. ever, we were only allowed to supply Doppelmayr with it.

ving diameters. We opted for the average. The cable ran over wheels. out our sensor, the cable car would ifm's fail-safe sensor was positioned in the middle between two wheels and would signal if the cable drifted from the middle or was leaving the quide rail.



We are not the only ones to believe that this sensor was a significant

step forward in cable car technology. For safety purposes, cable cars were

Tests were carried out at various stops. One night, a branch from The cables on ropeways have var- a tree fell into the cables. No one had expected this, of course. Withsimply have set off, and the branch would have caused significant damage and downtime.

> This collaboration between Doppelmayr and syntron marked the beginning of ifm's safety technology.

The future of production in the USA: machines and production equipment from Tettnang have arrived.

Benno Kathan,

ifm group of companies, Germany

A design and technology pioneer. In 1994, ifm placed the very first pressure sensors on the market. The innovative design with the slanted display was a real eye-catcher. It was so convincing that even today, more than half of the twenty competitors are still using

the design characteristics of the PN type. The special design of the display had one huge advantage in everyday use: It can be easily read from all angles. Unfortunately, no one had thought of having it patented. One reason for this was that companies back then generally tried to be very different from each other. The PN, however, changed it all. But not just the de-



sign brought this huge and permanent market success: In terms of technology, the PN surprised with a newly developed ceramic measuring cell with an above-average overpressure and pressure peak resistance. Even today, about 20 years after the product launch, the PN pressure sensor is one of our bestsellers. In

order to be able to sustain this market success in the long term, despite of the constantly increasing competition, it became necessary to place the next innovative generation of PN sensors on the market in 2014.

Even when times are rough, the colleagues at ifm stick together and support each other. During a meeting of all managing directors, a contract is "officially" signed (and drawn up on a flipchart) that motivates all participants to do an even better job in order to push the sales back to the top.

En l

- die gusen Kense mest verse per (- mit Frende zus Fred. - alle in ine Richtung, die gluiche Kinswum mit den was ich habe mit angentricke Zeigfinger Zeigt auf mich. Zu den Ulum en Laster Ulum das te. in Verbauf minhberren Thurdenen - gegensities vertruces TA wind al 1.1.99 in applican Bergion wieder der NL übertragen





The new central warehouse at Steeler Straße in Essen.



:1997

 1 December: the new storage building [°] (approx. 1500 m²) at • the Tettnang plant is put into use. costs: DM 1.5 million

The central warehouse moves from Bochum-Wattenscheid to Essen-Steele, along with the order processing, requirements planning and technical sales services departments.

Extension of the product group "pulse evaluation systems" by a family of monitors and switchedmode power supplies.

82

Dietmar Brüss, ifm group of companies, Germany

When mobile machines learned to walk. All beginnings are difficult. And this saying turned out to be true with our first ecomatmobile projects.

Backed up by a lot of knowledge of our hardware and software, but with very little information about the different mobile applications, we approached a new market segment, the automation of mobile machines. Dealing with all those hydraulic hoses and cable harnesses was like being lost in a dense jungle.

We were even accommodated under the stars. Since there was no proper assembly shop and no laboratory equipment, software development as well as on-road tests had to be carried out "on the living object".

Often, camping tables and chairs were set up, so that we could be

as close as possible to the mobile monsters.

All this is long ago. Nowadays, the software projecting is in most cases done by the customer or a system integrator. And if we need to do the job ourselves, there will be experienced application engineers with professional tools at many ifm locations.

Sometimes, however, by the "campfires" in the evenings of sales meetings, the stories of the pioneering days of ecomatmobile are still being told.

Benno Kathan,

ifm group of companies, Germany

From flow sensors to process sen- called "Prover godfathers", the fluid sors. Our two managing directors, sales specialists. Gerd Marhofer and Robert Buck †, have always taken a great interest in In order to be able to respond to the flow sensors. Today, the piece of paper on which Gerd Marhofer made a sketch of the "Strömi", as the flow monitor is endearingly called, still ex- with pressure peaks of up to 400 ists. That was in 1979. It took years for the idea to be put into practice. However, Mr Marhofer had had the supplier from the USA only supplied idea in 1979, and he knew that money could be earned with it someday. In the 1980s, there were a couple of Therefore, there was no reason to mechanical solutions on the market. meet our higher demands. Even a However, they all had the typical disadvantages. This is why, in the begin- We wanted to break new ground ning, we only sold flow monitors as bought-in products. And we received a positive response from the market.

ager for pressure sensors at ifm, he searched for a solution to monitor hydraulic systems. Dr May made a survey to find out what the customer really needed. What was different from before was that the people interviewed where not our usual customer contacts, but those who worked in the mechanical depart- founded. Back then, the subsidiary ments of our customers.

The subject became more and more it possible to move into our own important, so that soon there was a fluid specialist in every branch office. These would later turn into the so-

requirements in process technology, the ceramic measuring cell was not enough because it had problems bar. Up until then, no measuring cell could endure this. However, the the automotive industry, and the latter did not have these requirements. visit in person in the USA did not help. with good ideas for the implementation of stronger pressure cells. However, people would always tell us that such developments should When Dr May became product man- be made in the USA where all the creative heads were. By developing our own measuring cell in 2005, we showed them that we people from Swabia can also be guite creative. Moreover, we produced it ourselves. which reduced the supplier risk.

> In 1997, ifm prover ambh was did not yet have its own premises. The market success, however, made building in 2000.

For the very first time, ifm electronic's public appearance is defined in the corporate design manual that is distributed all around the globe.





Experience trade fair history with ifm.

Heinz Kostedde,

ifm group of companies, Germany

economy as a whole was becoming more and more stable in Brazil. A new currency, the Real, was introduced, and the inflation rate could be held at around 5 %. National and ments with support from the government. In order to participate in this growing market, ifm was look-November 1995. After assessing the companies that



had been applyina, we decided for Al Dantas. The owner, Mr Agostinho Dantas, knew a lot about automation technology. and his understanding of

customer processing and, especially, service entirely met our expectations. He had good contacts in the industry, especially in the automotive industry. The other applicants were not considered since they were only interested in telephone selling at dumping prices.

:1997

Foundation of ifm prover for the development and production of sensors for the process technology.

Development of the first temperature sensors.

ifm establishes a branch office in Brazil

The early days in Brazil.

Pirates in Brazil. In the mid-1990s, In January 1996, Al Dantas began ifm carried on negotiations with this selling ifm products, with much suc- company to regain the right to the cess during the first year. During the names for the Brazilian market. The second year, the sales increase was dramatic. However, it became clear that Al Dantas would not be able foreign companies planned invest- to cope with this growth without. The next problem was that the comsupport and without running into seven-figure debts. In mid-1997, the Management in Essen decided to ing for a trade partner for Brazil in buy the customer base from Al Dantas and to establish a proper branch office in Brazil. Agostinho Dantas was appointed Managing Director of the new company.

> However, before ifm Brazil could get started in January 1998, there was a the brand pirates. big obstacle to overcome.

There was a company that had ac-pressed and could not be stopped in quired the right to the names of "ifm electronic gmbh" and "efector" for the Brazilian Market in 1980. Introducing products with the brand names "ifm electronic" or "efector" in Brazil would have been illegal for ifm, and the other company would have been entitled to a licence comer on the market, new potentials fee for all sales. Taking legal steps against this brand piracy would have taken five to ten years. Consequently, was optimistic.

company returned those rights to ifm for a price of US\$ 180,000.

pany in question had copied ifm products and had been selling them in Brazil since the 1980s. They had done an excellent job copying the design. The electronics, however, were far from excellent. The units often failed due to electronic issues. This caused ifm a lot of trouble on the market, and it was necessary to make up for the image damaged by

The ifm team, however, was not imits development. The sales increase was good, and the number of emplovees was also steadily growing. In 1999, the first recession was noticeable. Working hours were reduced in the automotive and other industries. ifm also passed this test. As a newcould be opened up in other industries, and the outlook on the future







The Father's Day sensor It was the our task to focus on the pressure job of "Projektteam Drucksensor" - sensor after all... that was how we were called back then – to develop pressure sensors.

3-digit 7-segment LED display. We technicians decided that we could transform it very easily into a tem- cious time for the development of perature sensor.

Benno Kathan, today Board Member stage of our discussions. of ifm, presented the idea, but it was dismissed for the time being. It was We made the quick decision to meet

:1998

In September, an ifm

company is founded

in Australia.

on Father's Day at ifm prover

Since we stressed how easy it was, manage build the first the temperature sensor was finally There already was a sensor with a approved – the condition was, how- functional proever, "to do it just like that, at the totype in one weekend, or so", so that no pre- day. the pressure sensor would be wast- This is how the story of ifm's tempered. Ascension Day was close at this ature sensors began on Father's Day...

ifm has had its own web-

site (then www.ifm-elec-

since 1 April 1998.

tronic.com) on the Internet

and did indeed to

The first ifm subsidiary in

years, ifm products had

been distributed here by

Austria is founded. For many

Trade fair

in Australia.

Kühnel.





The Service Centre in Essen Bredeney.

Foundation of the subsidiary

ifm flexpro as production

site for electronic circuits

on flexible basic material

(flexible PCBs).

Hans-Erich Gubela senior.

(excerpt from an interview, 2012)

IMOS could develop and produce many new photoelectric products for ifm electronic. Both sides trusted each other fully.

ifm electronic was and is a reliable partner and technically intelligent. Our products have supported ifm's success, and ifm have shared their success with us.

extended workbench".

and success.



86

Research and Development, IMOS Gubela GmbH

We have met strong personalities in ifm's technical departments and among their purchasing managers. Due to these encounters, we turned into "ifm staff at the

Apart from that, ifm electronic offer their partners a fair partnership with an intelligent technological future

1994-1998



354 MILLION DM IN SALES



2,200 **EMPLOYEES**



309 PATENTS



COMPANIES

.....

Product milestones A?



Pressure sensors

special target.

ifm participates in the trade fair SPS/IPC/Drives in Nuremberg for the very first time.



Temperature sensors



Safety technology



Erleben Sie ifm **ISH** electronic

bis zum kompletten Sistem. Besuchen estand, wir freuen uns auf das Gespräch mit Ihne

鼦

Lay

1999-2003

Innovation für die Kostensenkung in der Pneumatik. TECHNIK & INNOVATION

Ein intelligentes Sensor

Die Früherkennung wird erschwi

Werner Gmür, SIP Elektroanlagen GmbH

"We need more suppliers like ifm electronic."

Constanze Fuchs. ifm group of companies, Germany

Challenges at the Lake. The biggest challenge when I started to work for ifm flexpro gmbh was the Allgäu dialect of my boss Karl Milz. It took some time for my

northern hearing to adapt to southern communication - and there are still a few things I still don't understand today.

No matter where my path in the ifm group may lead me one thing from my flexpro time will go with me: the personnel number 350001 as the first employee of flexpro.

My most beautiful memory of the time in Wasserburg: enjoying a cup of coffee during my break on the terrace with a view of the Swiss mountains!





The Japanese branch has moved.

Foundation of an ifm

company in Denmark.

1999

In March the new building of ifm flexpro gmbh in Wasserburg is officially inaugurated.

efector co. ltd. in Japan moves to a new building.



ifm wins the first marketing prize "Editors' Choice Award 2000" of the trade journal Control Engineering, USA, for the product launch of efector m. The demo model shows the insensitivity of the sensor to oil. Mailing campaigns also accompany the market launch.





Wilhelm Ploetz, Managing Director of ABP-Antriebstechnik GmbH

As a Product Manager in another company I established my first relationship with ifm electronic in 1983 and continued this relationship in the years to come with successful sales figures.

Since 1999 we have worked with ifm as ABP-Antriebstechnik GmbH. For years ABP-Antriebstechnik GmbH has delivered different types of shaft couplings as accessories for encoders to ifm. The relationship could be extended continuously to mechanical precision components and mounting elements. The fair cooperative contact with the Product Managers and with the employees in purchasing was always right for us despite the sometimes "hard" price negotiations.

The expertise of all Product Managers I got to know in the almost 30 years of cooperation (Mr Peter Klein, Mr Michael Paintner, Mr Bernd Bruckmann) has always impressed me, allowing us to talk shop even in our special product area on a "level playing field".

For us ifm is an important, reliable and loyal customer with whom we get along well. Now we only meet once a year to discuss what is required; more is not needed because the cooperation is "right".

	2	Λ	Λ	n	
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•	Launch of the first level sensors with freely selectable	• • •	Presentation of the "appli- cation sensor" efector m at	
•	switch points without mov- ing mechanical parts.	•	the Hanover fair.	
•	ing meenamear parts.	•		
•		•		
•		•		





The new production site ifm prover in Kressbronn.

Michael Marhofer. ifm group of companies, Germany

Generational change. As long as I can remember ifm has always been part of my life, even when I was a child. Since my father was often not at home for several weeks but away on business, we often talked about ifm when sitting together at the table. People who worked with What has to survive every generamy father know the 80 g wood-free writing pads he brought along from holiday: filled with new ideas waiting for implementation. Later on, ifm became the company I was to take over and, honestly, I fought against it for many years. Probably mainly ture as it exists at ifm. That's like for me and out of humility that such an achievement of two founders demands from everybody also from me. be nuances you add or take away but Therefore I will never forget New Year's Eve 2000/2001. It's a whole I want to illustrate this with an exam-

different thing when you assume responsibility in an organisation or are the boss of a company. That night I felt the additional responsibility on my shoulders and believe it or not: This has not changed today.

tional change is the culture of the body company, i.e. their DNA. You can know make many changes in a company, often have to do this, thus setting sales your own trends but you must not change a successful corporate culthe for fear that this might be too big wanting to basically change the such a thing character of a person, this almost must fail. always goes wrong. Sure, there may you must never make a basic change.



2000 In July the opening ceremo-	Connection of the ifm	Since the beginning of
ny of the new building for ifm prover takes place in Kressbronn.	corporate network to the internet.	March 2000, catalogue articles from ifm electronic Germany can be ordered online at list price. The first ifm online shop opens the chapter on e-commerce.
0 0 0 0	0 0 0 0	• • • • • • • • • • • • • • • • • • •

ple: ifm was never the cheapest supplier in the market. Our strengths are service, close customer contact and innovative products. Let's assume everything must be cheap from now on, the company would break up. All our experience from the past would

Important target industry automotive: international automotive meeting in Munich in May 2000.



Martin Buck.

ifm group of companies, Germany

ways been another family member with whom I had to share my parents' attention and time. At the



ther often drove to the company. For me this was a great thing, I drove with him and played with my model car in the totally empty halls or let my airplane

fly in the yard. Back then, it was not important for me what all the other people made there. When I got older and the driving license was within reach, the toys became bigger and bigger: When my father disappeared into a room where the mysterious film technology was born I took the initiative with my first driving lessons



Bernd Buck

Generational change. ifm had al- on the premises. That was the time when I began to understand what actually happened there, what challenges you had to face and what weekend my fa- caused my father to make the decisions the way he made them.

> When I assumed responsibility it was without any electronics, analogue simply exciting like an adventure. It happened very quickly and I was in the middle of the goings-on. Since then boredom has never come up.

My father always dealt with one that I myself cannot be an expert in subject and then advanced it consist- all these fields but I must make sure ently. The subjects he advanced had always been of a technical nature, father and that I must set up an oreverything else did not interest him. He could virtually call the transistors and resistors by name. I have a great deal of respect for the impetus with which he went on to improve things that others thought were good enough and finished. The world

where my father felt at home are the analogue circuits. Digital electronics and software were unfamiliar to him. Nowadays half of ifm's turnover is made with digital electronics, the technical range has increased enormously from the passive socket and digital electronics of various degrees of complexity to PC software. Now many Robert Bucks are needed who are experts in their fields. What distinguishes me from my father is that there are many experts like my ganisation where they can work well and even so the left hand still knows what the right hand is doing.

2001	0 0 0	
Generational change: The sons of the founders – Bernd Buck, Martin Buck and Michael Marhofer – took over the running of the company as managing partners of ifm. Bernard von Spiczak continues to support them as Managing Director.	Foundation of an ifm company in Singapore.	

Dr Thomas May,

ifm group of companies, Germany

Exciting technology. In 2001 we were basically driven to increasingly think about new innovations. As early as 1993 first attempts were made to develop something new in the field of optos. For this project we also worked together with Dr Schwarte, an external partner. Unfortunately we had no success back then.

In 2002 I read an article from the Fraunhofer Institute in Duisburg regarding time of flight technology. I thought this might be something really exciting. Unfortunately I had forgotten where I read this article and asked my assistant, Ms Fastrich, to find this out. Apart from Fraunhofer Institute she came across a small start-up dealing with time of flight technology



- pmdtechnologies. And in connection with this company a familiar name appeared: Dr Schwarte who had a share in this company. So thanks to my forgetfulness we became aware of pmdtechnologies. When I visited the company I met a team that was full of enthusiasm for the time of flight technology. Right from the start we had a wonderful basis. In 2005 we then took over Dr Schwarte's shares in pmdtechnologies.

> Workplace at pmdtechnologies in Siegen.



ifm advertises at educational

institutes, for example at the

University of Duisburg-Essen.

PMD technology: smart pixel element

: 2002

A newly developed semiconductor chip, PMD, is nominated for the German Future Prize Award. In the future it will be the basis for innovative ifm products such as the distance sensor efector pmd and the 3D sensor efector pmd 3d.

: 2003

1 January: foundation of ifm electronic gmbh Vertrieb Deutschland. The seven sales branches in Germany are merged into one company, a logical consequence of the German market situation.

Step by step, ifm electronic acquires a participation in i-for-T GmbH in Rosenheim.





A grievous loss: Death of Juanita Staub, Managing Director Finance, Administration and Personnel in 2003.

Bernhard von Spiczak. ifm group of companies, Germany

ifm as an external financial auditor and tax accountant in 1978. Since at that time



Mrs Staub was responsible for finance and personnel she was my most important contact. So as an outsider I had the chance to company her with her

I soon realised that she made sure that money was held together at ifm. A difficult task because ifm was very successful, which, in turn, triggered major future projects and high expenses. Actually a paradoxical situation but the greater the suc- if any, in their families. When she or the cess and growth of ifm, the more difficult it was to adhere to financial discipline and to provide the capital needed for growth. On top of that, there were unforeseen and unknown challenges on foreign markets due to currency problems or unusually long terms of payment for receivables from customers.

Mrs Staub recognised the problems for ifm and made a decision that distinguished her as a courageous personality that put the When – despite ifm's continued growth – it As an extraordinary employee, admirable became necessary to make savings and impose restrictions, Ms Staub always argued a very special place in my heart. that as the person in charge she had to set a good example. Unfortunately, saving measures often had to be taken when, for example, she was about to get a new car. Especially in such a situation it was impor-

many professional and, above all, human traits at an early stage.

background.

mended to the shareholders to search for an external finance and tax expert for the sponsibility and declared her willingness to support this expert with great loyalty and all her force. Back then, she gave a personal recommendation for me.

get to know and ac- In the many years of close collaboration that followed my early assessment was confirmed and deepened: Mrs Staub managed not only with professional accuracy and continuous willingness to make changes and improvements but above all with her positive and human personality.

> Her employees had full confidence in her, a level playing field. therefore she knew a lot about their personal situation, their problems and worries, company could help, she made this possible. She herself modestly stayed in the

Exemplary personality. I got to know needs of the company first. She recom- tant for her to set a good example. She never complained about that. Admirable!

> company although this was her area of re- Of course the human side of her personality also had problematic aspects. For example the first impression she got of a person was very important for her and influenced her for a long time. If it was negative it was difficult to correct it again.

> > She simply wasn't a typical boss. If something had to be done, she would do it across all hierarchical boundaries. When the ladies in the kitchen had their hands full it was, for example, no problem for her to load and unload the dishwasher. She respected all employees and met them on

In particular children had a very special place in her heart. When Mrs Staub visited me at home I often found her on the floor playing with our children, no matter what skirt suit or dress she wore.

person and reliable friend Mrs Staub found

Dr Bernd Buxbaum, pmdtechnologies, Siegen

Lasting partnership. Everything began in 2003. Dr Thomas May, ucts, phoned. He had come across a newspaper article regarding our nomination for the German Future Prize Award 2002 and was curious. Lake Constance and asked me if he could come around for a cup of coffee. After our first meeting everything got going.

sensor. It was presented at the Hanover Fair 2005 and won the Hermes Award. After this cooperation ifm ics Venture (AEV) also held 50 %.

compared to other companies we different: cordial, very familiar and cooperative. This was much differ- was good and even better than the ent with the other companies. None

was as sustainable as ifm, and I don't only say so because we are now also Managing Director of ifm for prod- "orange". You feel that the values described in the philosophy are really lived by the ifm executives and the entire team.

He was on the road from Essen to After the O1D, came the Audi pro- that our shareholder Audi Electronject ifm got involved with. A real ics challenge! It was about recognition of pedestrians before a crash. The some day. The background for this was a law that was about to be adopted and de-The first project was a development fined certain safety requirements project resulting in the O1D distance for vehicles. When the first road for tests went well, we set about the then series production. We started the draw. search for a system supplier who of took over a share of 50 % in pmd- used our technology and developed technologies in 2005. Audi Electron- the system for Audi. ifm intervened, dealing with the implementation. Everything went fine and even the Right from the start you noticed that final decision about the series was in our favour until the whole thing worked with the culture at ifm was failed at the end of 2012. Not because of the performance, which competitors' solution. The project ul-

timately failed because of legislation that was not adopted as expected: The information our sensor could supply was no longer needed so that a cheaper solution was preferred.

Right from the start it was obvious

Ventures would withdraw task now was to make the technology usable Audi and to with-Instead break-off payments we

agreed with Audi Electronics Venture that they would pay for all the project investments and assign their share (50 %) in pmdtechnologies to ifm. Since then we have been a 100 % member of the ifm aroup.

Auftakt für Innovationen in der Montagekontrolle.

efector

metris

Kontur und Lage erkennen. Kostengünstig und kompakt. efector

> The compressed air meter efector metris opens new applications for condition monitoring of machines.

: 2003 Presentation of the new product generation i-STEP implementing sophisticated technologies in industrially compatible, easy-to-use products.

With efector octavis, nominated for the Hermes Award 2004, the new vibration monitoring product line is established

With the vision system efector dualis ifm presents an industrial imaging system for the first time.



With the contour sensor efector dualis geometries are detected in direct illumination.



Dr Thomas May, ifm group of companies, Germany

A completely new approach. Gerd Marhofer initiated the collaboration with i-for-T gmbh. When he visited the Hanover Fair 2002 he made a discovery. Back at the ifm stand he put a business card in my hand: "Take a look at this, that's interesting!" A young company, i-for-T, presented a machine diagnostic system. The whole thing was based on an acceleration sensor (micromechanical) allowing more low-cost vibration diagnostics than available on the market. But unfortunately, the solution was not yet fit for industrial use. However, the approach was so exciting that we wanted to deal with the subject. Much personal commitment was now needed. We turned night into day when trying to find out if implementing our idea was possible at all. It took some time until we found a solution.

In 2003 we bought shares in i-for-T. The whole thing was a completely new approach, a second path to automation. The thing now was to monitor the machine and to control the energy monitoring. As early as 2004 we launched our vibration monitoring sensor, efector octavis. With this sensor we were even nominated for the Hermes Award. But soon we also started to cope with compressed air monitoring, and efector metris was developed. The impulse for this was a study in a trade journal saying that avoidance of compressed air leaks in industry would allow elimination of all wind farms in Germany!

But it was not sufficient to read out the display on the sensor at the machine. The customer needed a signal on their PC. So we first implemented the solution to send the data to a mobile phone via SMS. But this was not the optimal solution. In search of such a solution we again came across a young company called "HIS". There we found the possibility to connect the data from the sensor to the customer's ERP. The successful cooperation resulted in another subsidiary, ifm datalink gmbh.



Opening ceremony of the new building of ifm ecomatic: Managing Director Bernd Boolzen (2nd from left) with the ifm shareholders (from left) Martin Buck,

Service-Hotline 01803 / 43 64 63



International advertising campaign "Opto75"

The right technology at the

The Netherlands are known worldwide for their cheese, tulips, dikes

course these products and the related technology are also very important for ifm Netherlands. Cheese, for example, is automatically produced using ifm technology. Dikes, pumps, floodgates and canals are monitored by ifm fluid products. Without the robust controllers and sensors containers could not be loaded onto and unloaded from the cargo ships. ifm sensors and AS-Interface are indispensable for the sophisticated logistics in greenhouses to ensure a guick and efficient process.

We started with 18 employees; by 2012 the team grew to 25 employees.

Within tehn years turnover has more than doubled. A success story we are proud of.

Celebration of the first orders invoiced in the newly founded branch in Mexico.



Joy Rahman opens the new branch in Harderwijk in the Netherlands.

2003	0 0	0 0	0 0		0 0	•
1 July: The newly founded ifm company in the Netherlands starts business. Previously we had a long-standing partnership with VEGA.	ifm electronic is "Bo- schSupplier of the Year 2003/2004".	Online shopping at ifm: In July the e-shop opens, first in the USA.	New foundation in America: ifm companies now also exist in Mexico and Canada.	New branches in Eastern Europe: ifm Russia and ifm Hungary are founded.	In September the new building of ifm ecomatic is opened.	

Wilma van de Wetering, ifm group of companies, Netherlands

right place. On 1 July 2003 the ifm branch started as an independent company after our move from Amersfoort to Harderwijk as a division of VEGA, the long-standing trade partner.

and the seaport in Rotterdam. Of



1999-2003



264 MILLION EUR IN SALES



2,500 EMPLOYEES



411 PATENTS



24 COMPANIES

Product milestones



Level sensors

Vibration moni-

toring



Measurement of compressed air consumption

Vision sensors



ifm is continuously growing...

Innovatives Zusammenspiel in der Produktionssteuerung. Identifizieren und codieren mit RFID und AS-Interface.

ESSEN

Der stille Riese

Ifm Electronic erhält eine neue Zentrale im Glückaufhaus. Das Familienunternehmen zählt i der Automatisierungstechnik. Jährliches Umsatzwachstum von über zehn

"The Beitung

eco link

ETTIANG

n Hans-Walter Scheffle Am 15. Mai findet die Grund-steinlegung des "neuen" Glü-deudnauses statt. Am 1. Sep-tember 2009 will tim Electro-nic in das 45-Millionen-Euro-Projekt als Generalmieter ein-Projekt als Generalmieter einjehen und zwei Drittel de ur Bismarck- und zur sind bei der E



100

ifm electronic

2004-2008

KÖLBL KRUSE ANOCHTIEF

Grundsteinlegung Glückaufhaus

15. Mai 2008



in den USA 340 sind in der Forsch tine Rohe von



Hu Schracke,

ifm group of companies, Germany

Support from the Chancellor. Back when ifm China was founded in 2005, the company ifm electronic was completely unknown in China. In order to change this, we decided against simply announcing the official opening in the local media. Instead, we wanted to make a statement and show who we are and what we stand for. Easier said than done! Finally, fate came to our aid:

At Hannover Messe 2004, ifm was one of the five companies nominated for the Hermes Award, the newly created industrial award of the trade fair. The award was presented to ifm's Managing Director Michael Marhofer by Gerhard Schröder, the Chancellor of Germany at that time.



This was the perfect motif for our statement advertisement. Why? Gerhard Schröder was very well known in China, he was a real celebrity. Firstly because he was a big fan of China, and secondly because he was a close ally of the then Chinese Prime Minister Wen Jiabao. Schröder had witnessed the first stage of China's economic upswing; without his support, the Shanghai Maglev for example would never have been realised.

The response to our campaign proved us right: The picture of Mr Marhofer and Chancellor Schröder was very well received by the customers and the press. Until today, people often refer to this advertisement.



Office building "An der Reichsbank" in the city centre of Essen.

867474800 108489.585

: 2004

• A large part of ifm's head office in Essen moves from Teichstrasse to the office building "Reichsbank".

 In January, ifm receives the "Top Job" award for vision and leadership in 2003.



With the vibration sensor efector octavis, ifm is among the five nominees for the Hermes award, the new technology prize of the Hannover Messe.





Federal Chancellor Gerhard Schröder with the five nominees for the Hermes Award 2004.





Introduction of innovative cylinder sensors using GMR technology.

Award.





Award-winning AS-i module with pre-studies by Georg Kaluza.

Benno Kathan, ifm group of companies, Germany

A turn for the better. Once again, we were looking for a simpler and faster way to set our pressure sensors. The sensors were to be inexpensive and easy to handle. At that time, our premises were located near a railway line. Whenever a train passed by, we had to close the windows. As a result, I spent a lot of time regulating the room temperature by opening and closing the window and turning the heating on and off. While I was doing this, my gaze settled on the thermostat of the radiator. "That is something everyone understands!" That thought crossed my mind, and this is how the idea to use setting rings was born.

The AS-i ProcessLine module receives the Red Dot Design

The PK pressure sensor with an intuitive operating concept wins the innovation award at the "Automation Optimation Europe" trade fair in Paris.



Bernd Busch,

ifm group of companies, Germany

Project "Glückaufhaus". At the The façades of the Glückaufhaus end of 2005, the decision had been made to move to a new building. As early as 2007, the first tenancy agreement was concluded. Unfortunately, this was followed by the crisis of 2008/2009, which could not be averted any more. When we learned that the Lehman Brothers had filed for insolvency during a management meeting in October 2008, we all knew that this would affect us as well and we immediately initiated countermeasures. No new staff were hired, stock levels were reduced and large investments were stopped where possible.

iect. Basically, there were three options. One: Stopping all construction works and leaving the building a ruin for the time being. Two: Finishing the works halfway. Thirdly: Believing in ifm and its success and finishing the project. Back then, Bernhard von Spiczak was a great support to me, he encouraged me to believe in ifm and its growth. Details such as paintings and furniture were disregarded in the first step, but the rest was properly implemented.

were to be preserved. Unfortunately, it turned out that there still was an unexploded bomb from World War Il under the premises (located under today's garage entrance) so that the entire city centre of Essen had to be evacuated for the bomb disposal. Time was a critical factor, as the bomb was very dangerous. Fortunately, everything went well.

The Glückaufhaus has shaped the public image of ifm in Essen. Quite intentionally, the location in Teichstraße had been rather inconspicuous. Today, we follow a different approach: ifm electronic is supposed to Of course, these were difficult con- grow and present itself as a modern ditions for the "Glückaufhaus" pro- and strong company. It is not only about our external image, though, but also about our employees' perception. Before, there were several office locations distributed throughout Essen. Being united at one single location makes us feel even more like one company.



Sleeping Beauty: The Glückaufhaus in Essen before the remodelling.

iin.

Essen.2012-10-23 UBS / tro Selle 1 von 2



The branch office ifm Poland in Katowice.

Michael Marhofer. ifm group of companies, Germany

tremely important to me not to focus too much on Europe, but to open up the Asian and American markets as well. With our customers becoming more and more international, we nationally oriented as well. The first step was to found new branch offices in all countries of interest. This has almost been completed. Now we have to establish regional branch e.g. in China. It will still take some years to establish a structure in these countries comparable to the one we have in many European countries. In many countries, founding a com- In India, you need a lot of patience pany is an exciting experience! Two stories particularly stand out: the foundation in Turkey and in India.

deed of incorporation at the notary's

: 2004

• 30 July: After 9 years of cooperation with its trade partner Newtech from Gliwice, ifm establishes a company in Poland.

ifm has a worldwide slogan: ifm - close to you.



tion Essen: The capacities of the headquarters are almost exhausted, a new building has to be found.

: 2004

for ifm.

Identification systems fea-

turing RFID technology and

AS-i connection open up

new market opportunities

Building design at the loca-

With efector valvis, a feedback system for continuous position detection on linear valves is presented.



head clerk (a Turkish notary office these forms were finally completed, resembles more a German road traffic licensing department than a German notary office) and asked to furt. All in all, it took 18 months to pay our bill. In most countries, you made it a priority to become inter- will receive an invoice for such fees. forms had to be completed by hand! but not in Turkey. According to the motto "cash is king", the head clerk As already mentioned, every foundathen told me where to find the nearest ATM. I went there and withdrew cash using my private debit card in offices in the respective countries, order to appease the gentleman, who came across rather grumpy. Five minutes later, we held the deed in our hands.

to found a company. I had to complete the first forms (several pages) three times: The first time, I had written in the margin. The second time, I In Turkey, we were waiting for our had switched pens halfway through, the new pen's colour differing very

International growth. It was ex- office when we were called by the slightly from the first one. When we had to make three trips to the Consulate-General of India in Frankfound the company. By the way, all

> tion has its own history, but that is what makes things interesting and excitina.





Ring binders that can be positioned upright to hold presentations at the customer pep up ifm's sales activities.

Laying the foundation stone for building 15 (7,000 m²) in Tettnang.





After the tsunami disaster at the end of 2004, ifm starts supporting the children's home St. Vincents Home in Maggona, Sri Lanka, in 2005. To date, ifm and its employees have donated EUR 58,378.63.



Ute Scherhag, ifm group of companies, Germany

Everything new in Tettnang. With the expansion of the Bechlingen location, a new canteen was opened in building 12 in cooperation with the caterer ARAMARK. The man- context, some departments moved new building as well.

26,000 m² were bought on 1 July 2005 from Tettnang city council. Within only 12 months, a brand-new

cation of sub-assemblies and special purpose machinery manufacture The new storage building was to was established. The construction works began in autumn 2005. In this 14 m high. It is very impressive to aging directors and their secretaries from the old to the new building in moved to the second floor of the order to reorganise and optimise his- ifm's growth torically grown processes. The space within a few freed in the old building became months. Besides, premises of approximately available for future growth. Simultaneously to the construction of the new building, the storage area on the existing premises was expanded production building for the prefabri- in order to optimise material han-

dling and warehouse organisation. cover an area of 20 x 40 m and be see how everything was reorganised and adapted to





: 2005 24 Mav: The branch office in China Opening of the new ifm is founded office Portugal in Vila Nova

near Porto.

 The new entrance building with canteen is finished at the plant in Tettnang.

1 January: Introduction of a new working time model – among other things the return to • the 40-hour week step by step.

Entrance building of the Tettnang plant.



ifm philosophy

Michael Marhofer, ifm group of companies, Germany

Family business and international group of companies. I admit that it is becoming more and more difficult to unify these two aspects. We do our best following different approaches. For example, a copy of our philosophy (which is available in many different languages) is given to each new ifm employee. But what is more important is that the executives of the whole company live the values described in the philosophy. It is only if this is the case that can we ask our employees to do the same.

We shareholders are no exception to this. It is our task to live these values and urge our executives to do the same. When we realise that things do not run smoothly, we take appropriate measures. What is also important is that the company is organised in a way that makes it possible to live the principles. For example, structures have to be kept simple, responsibility and expertise should be bundled etc. It definitely remains our most important task to convey and preserve this culture, even if our company keeps growing.



ifm works meeting regarding the introduction of a new work time model in the festival hall in Tettnang.

Bernd Froese,

ifm group of companies, Germany

ecolink – it's all about the right enormous stress; as long as there is contacts. At the end of 2004, the ifm management decided to devel- up with the existing one. op and sell ifm connectors. Today, we know that this was a very wise decision.

Besides economic aspects and the aim to be independent of suppliers, had to include the main focus was on technical product requirements. Today, ifm sensors are used in numerous in- The dustries and applications around the of our research world. This is favoured by their high reliability even in very challenging applications. Operating conditions improvement include for example shock and vi- and now we had bration, thermal stress, EMC stress, to channel this moisture, dust or chemical stress into a mass product in a cost-neutral caused by oils, coolants, cleaning agents and disinfectants.

But what is the use of the best sen- good conditions for a market entry sor if the sensor signal is not reliably transmitted to the evaluation elec- be enough? tronics? This is why our connectors mands as well. We like to compare them to the tyres of a Formula 1 car which have to transfer the highly efficient technology used in the car to the road; you will never achieve a podium position with bad tyres.

The decision had been taken, we were highly motivated and had the means, we only had to roll up wasn't that simple. In a first step, we decided to carry out extensive market research in order to identify actual product requirements. Many customers thought of connectors as wear material. They had accepted that particularly in challenging applications, connectors failed on a regular basis, similar to brake linings on a vehicle that have to be replaced frequently if they are exposed to

no better solution available, you put

Bad for the customer and good for us, because this showed us what product features and customer benefits we

for a successful market launch. evaluation clearly showed the potential for

way. Thanks to an impressive development achievement, we succeeded to do so with ecolink. These were with a good product, but would that

have to meet high technical de- In fact, the ecolink connectors have become a bestseller. They are a real door opener with new customers, not only because ifm sensors and ecolink are perfectly adapted to each other, but also because they make it possible for ifm to cover the task of signal transmission with its own products. The ifm development is also highly accepted by our existing customer base, not least because of our sleeves and get going... No, it its high guality and reliability and its good price/performance ratio.



Hermes Award 2005: ifm's Managing Director Michael Marhofer (second from the left) at the award ceremony together with Prime Minister of the state of Lower Saxony Christian Wulff and Federal Minister for Education and Research Edelgard Bulmahn.

ifm fair run 2005: ifm runners and cyclists bring the efector pmd sensor from Tettnang to Hanover, ifm supports them with one euro per km. The proceeds are donated to the orphanage St Vincent's Home in Sri Lanka.



ecolink connection technology.

: 2005

In December, Bernhard von Spiczak, Managing Director for many years, retires.





Award ceremony Hermes Award

The first photoelectric distance sensor with PMD technology, efector pmd, is awarded the Hermes Award 2005.

On his last day of work, ifm's Managing Director Bernhard von Spiczak plants a tree at the location Essen

Hu Schracke, ifm group of companies, Germany

Dedicated consultant. In January support my colleagues as best as I 2004. I started working for ifm elec- could. tronic; I was the first Asian ifm employee in Essen. Only three months later, in April 2004, the Hannover Messe took place. As China was the fair's partner country that year, I, the native speaker, was to be the contact person for Chinese guests. I was supposed to show them our fair stand, present ifm to them and give them advice. As this was my first time at the fair and many things were completely new to me, I was

ifm-Mitarbeiter laufen für guten Zweck





At some point I saw a customer enter the stall, an older gentleman, obviously not Asian. I looked around, but none of my German ifm colleagues was available to speak to the customer and give him a tour of our fair stand. So I filled in for my col- I started to apologise for trying to leagues and tried to inform the cus- tell him about his own company, he tomer about ifm and our products. I was about to present some of our that I, a new employee, had acted as product highlights to him and tell very nervous. Nevertheless, I tried to him some more about the company,

when he said with a smile: "I know ifm verv well, because I founded the company!"

During my job interview, I had only talked to Mr Michael Marhofer. I had never seen his father and, of course, had not recognised him. I was so surprised I was lost for words. When reacted very friendlily and was happy such a dedicated consultant.



Dieter Radtke, ifm group of companies, Germany

Square becomes round. When the new company logo was introduced on 1 October 2006, we had spent some months of "creative hard work". Innumerable ideas, good ones and bad ones, had been sketched on innumerable sheets and then been abandoned. Often, we thought we had found the perfect solution, only to question our idea again on the following day. It took some months before we had identified some favourites, which were then elaborated in detail using a PC.

In May 2005, the ifm management had asked identicom to develop a new, modern logo and present several alternatives for a revision of the existing company logo. The new logo was to be more succinct and striking and to prominently feature the colour orange. It had to visually compete with the powerful logos of our competitors, especially on the internet, which was becoming more and more important. Martina Linn and I engaged graphic designer Klaus Appel from Düsseldorf as a consultant, an exciting cooperation began; it ended with impressive results.

In the end, we decided in favour of a round, opague logo. Despite the new shape, there is a clear continuity between the old and the new logo.



Innumerable sketches on the way to the new ifm logo.





ifm branch office in Sibiu,

Romania.

A new, larger building: ifm efector in the USA.



Derva Gürsov ifm group of companies Turkey

Born as an ifm colleague. Some people say that the company they work for is like a big family. ifm indeed is. But in my case it is more than that because I was born into it:

> During global Product Marketing Circle meetings all of us stand up and give brief information about ourselves: age, country of origin, position, name of our children.

In most of the meetings I am one of hard lessons. the youngest attendees and often the only woman. Once I was asked Once I was left alone at our small how many years I had been working at ifm. I, truthfully, said twenty-four



Innovation auf der richtigen Wellenlänge. Mit Mikrowellen-Technologi Füllstände in kompakten Behältern messen. efector

ifm elect

: 2005

 Foundation of an ifm company in Turkey; for many years, ifm products had been distributed by the trade partner Voltam.

10 November: Opening of the new building of ifm efector in Exton, USA.

2006

Product launch: The new efector gwr level sensor operates on the principle of guided wave radar.

New locations in Eastern Europe: Opening of branch offices in the Ukraine and in Romania.

回然回



The former owner of Voltam, Mr Durkaya (on the right) with ifm sales engineer Dieter Ebbinghaus.

mal in the ifm world, but everyone was stunned. Because I looked like I was twenty-four at that time. There were, mostly, engineers listening and I bet they were trying to calculate my age. There was truly something not the matching with my appeareance.

> Being the daughter of the owner of the previous ifm trade partner. Voltam Limited Co., I had been taken to the office since I was eight. For I saved myself and of course a few two reasons: no relatives to take care of me during school holidays and to learn the business. I experienced exhibitions, bargaining, how to sell technical products and I had good

office to answer the incoming calls while my father was on a sales call. years. This could be counted as nor- I remember taking a note of a cus-

tomer on the phone. As a perfectionist eight-year-old I did not like my handwriting and whited it out. And then... I had totally forgotten the name of the customer. I was so sad and terrified and did not know what to tell my father when he came back in the afternoon. Luckily I thought of looking at the white sheet of paper in front of a light source, and there it was behind the white fluid: Bosch. sensors - then. Bosch is still one of the best customers of ifm Turkey.

It is so motivating to work in such a dynamic company that welcomes all bright ideas and appreciates the efforts of its employees.

After 17 years, the ifm company logo is changed.

ifm is one of "Deutschlands beste Arbeitgeber 2006" (Germany's best employers 2006).

Besides, the company receives the quality mark Top 100 for outstanding innovative performance.



Tin-Chee Man, ifm group of companies, Germany

An unforgettable moment. I started my training at ifm in 2006. Together with the other trainees, I had much fun. There were several projects we managed together. One was the disposal of the old ifm crockery for a good cause. After the change of the logo, new crockery had been acquired.

The question was: What should we do with the old

crockery? Give it away, auction it off or sell it? This all seemed too boring to us, and we came up with the idea to dispose of the crockery in an entertaining way. But how can you turn broken crockery into money? Very easy: Against a small payment, our ifm colleagues could smash the crockery in a tossing game of our own design. Putting our idea



into practice turned out to be rather complicated. We had never had to organise such an event. The creation of the concept was completely up to us, as was the implementation. Many things had to be taken into account. One aspect was ensuring the safety of the game. The marketing department helped us to create a wooden box to make the smashing of the crockery safe. The plates were placed in the box in rows and the cups were used as missiles. Each player received three cups. The colleagues who smashed most plates in three throws received an attractive prize.

Our hard work paid off. Our idea was received very positively and our colleagues enjoyed the game, which was presented at our end-of-year celebration. We donated the collected money to the Sri Lanka project. We were very proud of ourselves, because we had organised many things without help. This was one of my moments at ifm I will never forget.



26 July: Opening of the extension of ifm syntron in Tettnang.



OIO-Link

Brigitte Bostel ifm group of companies, Germany

Incentives at ifm. Offering incentives was Michael Marhofer's idea. He was convinced that incentives can be great motivation tools and that they can help to increase sales. We started in North America, because sales were rather slow there at the beginning. Later, we expanded the idea to South West European countries. However, we only focused on one single country group at a time. For example, the employees from North America could win a 14-day trip to Europe with their family. Of course, that was fantastic! I vividly remember our guests from North America. Then, incentives were offered in France, Spain and Italy. Here, the employees were offered the chance to go to North America, according to the motto "North America – close to you!"

Managing Directors Bernd Busch (in the middle) and Marc Everaert during the official opening of the



ifm's Managing Director Dr Thomas May (in the middle) during the opening of the new building of ifm India in October 2007.

:2006

 ifm ecolink sets new standards in the connection technology market.

Together with the 14 founding companies of the IO-Link consortium ifm electronic presents the new point-topoint connection IO-Link.

2007

In March, Bernd Buck re-With effect from 23 signs from the Management March, Bernd Busch, Horst for personal reasons. Jeruschke and Dr Thomas May are appointed to the Kong. extended management.

branch office ifm Belgium.



Marc Everaert, ifm group of companies, Belgium

A perfect day. After more than 30 years of partnership with VEGA in Belgium, ifm electronic opened its own branch office in Zellik, a small town close to the capital Brussels. After a training which we were given by our colleagues from Germany the official opening on 02 July 2007 started with a small ceremony and a toast since after the first quotation an order was placed ... a



perfect day!

In October 2008 we presented ifm electronic n.v./s.a. to our families. Partners, children, mothers, grand-fathers - everybody was welcome at ifm electronic Belgium.

Further expansion in Asia: Opening of ifm companies in South Korea and Hong

In Europe, ifm locations are founded in Belgium and Greece.

Entrepreneur of the year 2007: ifm is one of the finalists.





the

of being in Spain. Argentina is often

in the shadow of its "big brother" in

South America, Brazil, Nevertheless,

Argentina has a powerful and inter-

esting industrial sector, just like Brazil

- only on a smaller scale.

State visit at ifm: Federal Chancellor Angela Merkel and Turkish Prime Minister Recep Tayyip Erdoğan visit the ifm stand at the Hannover Messe.

Deutschland Land der Ideen ***



Photoelectric ifm sensor at the chocolate museum in Cologne.

ifm's Managing Director Martin Buck (second from the right) is presented with the Innovation Award of the German industry.

15 May 2008: Laying the foundation

stone for the new

corporate headquarters

Glückaufhaus in Essen.

Andreas Fobbe, ifm group of companies, Germany

Who has the better steaks? In Argentina, a very proud 2008, ifm Argentina was founded. The foundation went very smoothly, as the Managing Director of ifm Argentina, Gustavo Yangosian, had worked for years as a sales engineer at an ifm trade partner. Besides, we had the good luck of recruiting a very experienced Argentine colleague, Yamila Laham, for ifm Argentina's order processing department.



The countries are also rivals when it comes to food. For someone from Argentina, it is a question of faith and a point of honour to prefer Argen-

might actually have the impression tine steaks over Brazilian steaks.

As a foreigner, you should adopt a neutral position. Otherwise, you might share the fate of the author of this article, only being served rice during your next visit.

1 April 2008 Opening of the new office building of ifm China in Shanghai.



2008

The ifm consulting ifm opens further sales gmbh for the marketing companies in Taiwan and implementation and Argentina. of consulting and project planning services concerning maintenance and production is founded.

ifm Italy becomes an independent branch office.

ifm South Africa is founded; before, there has been a long-stand- ing cooperation with the trade partner Shorrock.

: 2007

 Start of the cooperation with the Hochschule Ravensburg-Weingarten (University of Applied Sciences). Among other things, this will result in an ifm lecture hall • and as from 2010 a course • as well as the corresponding endowed professorship.

ifm electronic and the chocolate museum in Cologne establish a cooperation and become a "Landmark in the Land of Ideas"

Intelligent fluid sensors: The volumetric flow sensor efector mid with magnetic-inductive principle is presented at the Hannover Messe.





2004-2008

420 MILLION EUR IN SALES



ΤŤ

3,200 **EMPLOYEES**



546 PATENTS



COMPANIES

.....

£? Product milestones



Identification systems

Valve sensors

Cylinder sensors



Connection technology







ifm is finalist of the Innovation Award of the German Industry and receives the special award for continuous innovation.



2009-2013

Click

117



Gutting work on the ramshackle structure of Glückaufhaus built between 1921 and 1923.

Meiyu Bai, ifm group of companies, Singapore

A beautiful plant. I was struck at once by the open-minded and friendly atmosphere during the job interview. I felt that ifm Management was really interested in developing their employees and that they did not offer me just a job but rather the possibility to "grow" together with the new Singapore plant.

My first day at ifm was really nice and my colleagues gave me a hearty welcome. I have ever since been amazed how that empty building transformed into a beautiful plant, housing machines, a warehouse, offices, a canteen and much more. It was an exciting feeling to have had a share in this "transformation". And whenever we welcome new colleagues, am always a bit proud to be able

to show them what we have accomplished so far and how much we have achieved already.



ifm branch office in Istanbul.





m electronic - close to you

Korean Minister of Economy Youn Ho Lee (4th from left) at the ifm trade fair stand in Hanover 2009

Leasing of the first ifm iet and procurement of its own IATA licence, as a result of which ifm traviation gmbh is separated as a subsidiary.

16 January: Foundation of ifm Bulgaria after about seven years of collaboration with trade partner ANIPAL from Sofia.

ifm electronic is rated "Top employer for Engineers".

: 2009

Headquarters move into Glückaufhaus on the outskirts of Essen City.

Hans-Peter Hoffmann, ifm group of companies, Germany

Property search in Istanbul. ifm is international, which means: multicultural. I am lucky enough to be directly involved. As interior designer I am in charge of office planning for rally looked what you would expect a the whole ifm world and therefore work on interesting projects all over the globe. As an example, I would like to report on the expansion of the ifm location in Istanbul. A story After various similarly unsuccessful from the Arabian Nights, if you like.



At the end of 2008, our colleagues in Turkey were confronted, in their turn, with office space reaching the limits due to the worldwide expansion of our

fore, in May 2008, ifm's Managing Director Volker Jahns and myself set off to look for an appropriate new location in Istanbul together with our Turkish colleagues. Beforehand, the branch management had already commissioned a local estate agent to spot suitable objects and arrange for them to be visited. On arrival, we were therefore looking forward to a journey across Istanbul's architectural variety and confidently set off. However, the initial excitement quickly gave way to a certain scepticism as we would soon find out that in oriental countries, the notion of a high-quality building may differ from what you would expect in the Occident. Our Turkish colleagues from ifm as well had certainly expected a guite different choice of suggestions. The most bizarre object, however, that we got to visit was certainly the former doing in October in Germany. club house of a local motorcycle club. Not surprisingly then, some of their members showed up at the viewing appointment on their motorbike and,

of course, dressed with the classical leather jacket. \ I must admit that at that moment I felt slightly overdressed in my suit. Anyway, the location natuclub house of a local motorcycle club to look like and therefore was not suitable at all for our purposes.

visits, we gradually gave up hope that we would still find something appropriate on our first stay in Istanbul. Later in the afternoon, the estate agent finally got news of another available property that we could visit the next day. This property finally met all our requirements. Shortly afterwards, the decision was made and the preparations for acquisition could begin.

company. There- The following weeks were spent on conceiving the optimum utilisation of the building, with the planning being almost completed by July. The implementation phase, which took place in cooperation with a Turkish architect from Istanbul, ensued and as everything ran smoothly, construction work was finished by mid-October.

> On October 19, 2009, the official opening ceremony took place, with a small delegation from Essen having once again made their way to Istanbul in order to inspect the result and discuss the further development of the branch office. In the evening, we celebrated together with all our Turkish colleagues the completion of a successful project at pleasant temperatures around a barbecue outdoors - something you can hardly imagine

Steffen Fischer, Head of Human Resources and member of the ifm Management Board (left), with Wolfgang Heikamp, Head of Human Resources at ifm Essen, at the award ceremony for the Top Employer for Engineers seal of approval.



Automotive summit in Würzbura: Managing Director of ifm syntron, Michael Paintner, explains the technology "three-dimensional vision with a compact 3D camera".



Michael Marhofer, ifm group of companies, Germany

In crisis. June 2009. I am faced with the worst days in my ifm career. I had always been proud that we could offer our employees not just a competitive remuneration but also better working conditions and social security benefits than standard. Heaven knows I had seen differently during many visits to customers, also in Germany, ifm should never be like that! And now it's up to me to face the employees and ask them to waive their vacation and Christmas if we want to keep the losses under bonuses until 2010. Sure, we had some kind of control. But what is the

tried everything possible to avert this situation: The number of temporary workers had been brought down. limited contracts had not been ex- have to leave the company. I am tended, we had short-time work since March, the general expenses 250 to 300 families that have been had been reduced to the absolute limit, investments been frozen 10 or 20 years already, if not more. where possible and material costs been reduced by millions of euros. But a 30 % decrease in turnover is just too much. We must save more

alternative to a salary waiver? If we wanted to save the same amount per year, 250-300 employees would sadly aware that this also involves relying on ifm, some of them for No, that is no alternative, at least not without having tried everything possible beforehand, including a collective salary waiver.

2009	•		•	
ifm, too, is hit by worldwide recession and implements short-time working in Germany.	• • • • • • •	ifm is top 30 awardee in the NoAE-innovation competition at the Würzburg automotive summit.		Ma pm to c in t gla







Instandhaltungskosten

senken. Wir unterstützen

Heinz-Georg Wirooks, ifm group of companies, Germany

there was efector octavis sensor, a vibration diagnostic system launched in 2004 in order to tread new paths in condition-based maintenance. Introduction of such an RTM solu-However, it quickly became apparent that the sensor alone could not meet



Manager Street

the customers' wishes and reauirements in terms of maintenance

use of having a traffic light machine to sig-

nal the machine's condition if the customer's staff overlooked it?

The general request was to have the sensor's signals integrated in main- After a turbulent start, ifm consulttenance systems and software solutions so as to allow for the machine to autonomously signal any occurring machine condition deterioration. The idea of Real Time Maintenance® was born.

Owing to the consideration that a great number of customers use SAP and also employ the SAP tools for maintenance purposes, the decision was made to develop a software solution in the SAP environment that could be used as an SAP add-on for preventive maintenance: RTM-SAP.

to SAP.

It became possible to pass information from the VSE evaluation unit to the SAP world where, by means of an RTM Cockpit, the respective maintenance and alarm rules could be generated. From then on, the

From sensor to SAP. To start with, machine was able to autonomously signal its condition by issuing an email or a direct maintenance order.

> tion demanded that the customer be advised accordingly, the hardware and software be implemented, all elements be put into operation and the customer be trained.

As this was hardly compatible with ifm electronic's fields of business of What was the that time, the idea came up to have such services handled by a separate private limited company - ifm consystem on their sulting was born.

> The birth of ifm consulting, on 1 January 2009, fell in the midst of the century's biggest economic crisis.

> ing's portfolio has meanwhile been extended.

> Besides offering hardware, software and engineering services, today's focus is on optimising plants and machinery and on creating transparency in production processes in terms of machine condition and capacity utilisation.

Meanwhile, the RTM concept also covers product traceability as well as process traceability, energy and software solutions and - with "LINERE-CORDER" – even an entire manufac-For the first time, signals could be turing execution system (MES). The continuously processed from sensor "From sensor to SAP" approach is consistently being pursued.

Michael Marhofer,

ifm group of companies, Germany

A risky path. In 2008, we still believed, at least until October, that we would come through unscathed. Like many analysts, we too were taken in by the erroneous belief that a banking crisis must not necessarily be followed by an economic crisis. From November 2008 on, it was evident that we would face quite a big shortfall in turnover. Then, things came thick and fast. Shorttime work, suspension of all investments that could still be suspended, waiver on the part of the employees of special benefits etc. Moreover, the sales activities were entirely reoriented towards acquiring new customers, and the development departments increasingly focussed on customer-specific products so as to get out of the crisis as quickly as possible by our own efforts. One thing, however, that was of utmost importance to us was to weather the crisis without having to resort to compulsory redundancies. A risky path as nobody knew how long the crisis might last. In the end, it paid off because hardly any competitor attained their pre-crisis level as rapidly as ifm did. Those were extremely difficult times, nonetheless. And for me personally as well. In hard times, you are much more aware of the responsibility you bear than in good times.



The team of newly founded ifm engineering.

MT系列卫生型液位传统器

WHEFPER (1.50) fill 2.-1



bob-basic.com

controller "Basic".



In 2011, ifm receives the monument plague for the Glückaufhaus: the traditional building in Essen officially enters the list of historical monuments of North Rhine-Westphalia.

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July: Foundation of ifm ecolink, the new production site for connectors, in Poland.	• • • • •	Founda tive gn
	Foundation of ifm ecolink, the new production site for	Foundation of ifm ecolink, the new production site for

Chinese award for LMT level sensor.	Contraction of the second
•	0
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	•

: 2010 End of short-time working at • "Green production": one of LMT level sensor award-6 July: Presentation of mini controlifm Germany in May. Foundation of ifm engineerler ecomatmobile Basic for the hot topics at Hannover ed one of the "2010 ing pvt. Itd. in India, the core use in mobile machines. Messe 2010. ifm presents Top Ten Innovative competence being hardware their innovative solutions Products in the Field of and software development • for sustainable climate Industrial Automation for fast digital signal in China" in November. and resource protection in a compendium named processing. likewise.

Mascot Bob Basic supports market launch campaign for new mini





Cristina Gonzalez Garrido, ifm group of companies, Germany

A big building. When I hear the word "ifm" today, the first thing that comes to my mind is "orange". I still remember coming for my job interview: The impressive building alone intimidated me and I was almost tempted to head back home. I just had not expected to come upon such a big building that suggested a company of a size I would not have associated with



the family-owned company ifm. ifm, however, not only offered me something completely different from what I would have expected but did actually give me a very warm, open arms welcome. I never get the feeling of being left alone. This is why I am glad that, at the time, I did not head back home.

dation of ifm automombh

Founding of Automation24 in May 2011 – Stefan von der Bey and team gain valuable experience in a bundled online shop together with other suppliers.



Manfred "Manni" Breukmann, radio legend of West German broadcasting corporation WDR, moderates at ifm stand in Hanover.

Michael Marhofer, ifm group of companies, Germany

According to plan. A turbulent year is over, a year which was as unreal as experienced a better development than the market.

The measures that we initiated during the crisis have contributed conthe previous year 2009, only in the siderably to this. We already decided opposite way. At the beginning of at the end of 2008 that the sales 2010 it was definitely not yet fore- engineers worldwide would not seeable that the economy and there- work short time, but spend 30 % fore also ifm would recover from the of their time with selected potential economic crisis so fast. Sure, we had new customers. The result of this already seen first positive signs at the measure is something to be proud of. end of 2009. Based on this we sub- During the crisis ifm was able to win mitted a sales projection for 2010 of more than 7,000 new customers, 8.5 % increase compared to 2009. an increase of nearly 8 %, which is From our point of view this was something we haven't had for more more than positive. Now we have than 10 years. These customers reached nearly 40 % increase of the could certainly only slightly attenutotal revenue and have therefore ex- ate the effects of the crisis for ifm in ceeded the result of 2008. Thus we 2009, but it is also certain that part are in a very good position compared of this year's additional growth is with our competitors and we have due to exactly these new customers.

The decision to deal with the crisis without redundancies was very good, too. This was the only way that ifm could handle the enormous growth after the end of the short-time work in such a short time. This fast recoverv put us in the position to take back some of the saving measures earlier than planned, e.g. by paying the Christmas bonus in 2010.

Christian Riethmann, ifm group of companies, Germany

Help from the DIY market. ifm exhibited at the SPS trade fair in Parma, Italy. Shortly before the start of the fair, I arrived in our exhibition hall and expected our stand to be finished as usual. How wrong I was! All



of the stand constructions for our exhibits were missing. The exhibition stand builder was sure that they had been sent. In Italy, however, nobody was sure that they had been received. No wonder, in the chaos of exhibition stand building you can easily lose track of things. Everybody mounts their exhibit stands at the same time and the alleys keep being cleared so as to allow for new material to be delivered. We therefore

presumed that our stuff was disposed of and scrapped by mistake. What to do now? Ask for a new delivery from Germany and mount the stand over night?

I had an alternative idea: On our outward journey, I had seen a building supplies store. So I headed there and was enormously lucky to find what we needed in exactly the correct colour. Together with the installers on site, we managed to replicate everything and were done just in time. However, we never got to know what really happened to our stuff. During the fair, nobody noticed a thing and the whole event was a great success.



ifm shareholder Michael Marhofer (on the left) at the "Axia Award 2010" ceremony in the Intercontinental Hotel in Düsseldorf.

: 2011

	3 February:
	ifm receives the German
•	"Axia Award 2010" for
	medium-sized companies
	in the category "Future-ori-
	ented customer cooperation
	from the customer idea to
	innovation".
-	•

The second edition of the book "Aus bester Familie 2011" presents ifm as a successful family business.



Employees promote their job: ifm employees pose for new HR marketing campaign so as to authentically address the target group.





Ulrich Wickert, journalist and book author

(Translation of an extract from his book "Redet Geld. schweigt die Welt Was uns Werte wert sein müssen"



(When money speaks, the world remains silent - how we should value our values))

Some companies in Germany earn billions by producing weapons. Germany is in the top group of countries that sell military equipment.

This is not the kind of business that ifm electronic, with their produc-

tion sites located on Lake Constance, wishes to make money with.

Which is why one of the company's corporate principles says: As a matter of principle, ifm will not develop, produce or sell products that directly serve military purposes.

However, ifm produces electronic sensors and control systems that any arms producer would be keen to have at his disposal. Thus, the inevitable happened and the company was offered a large order, which it declined for fear that their products would end up being part of a weapon system.

After all, a company can indeed assume responsibility for humanity at the expense of its own profits.



Kent Karlsson,

ifm group of companies, Germany

A purchase order for a plant. The for the period up to the start of sestrategic considerations began back in 2008. Possible locations for an integrated plant in Asia were analysed. Discussions with local authorities had already taken place, too, but then the whole project \was temporarily June 2011. put on hold due to the financial crisis of 2009.

In autumn 2009, the managing di- entirely rectors then officially charged me to prepare the decision-making for "an integrated plant in Asia". The first step consisted in defining evaluation criteria for possible locations, creat- for socket proing a general and location independ- duction, install ent business plan and entering into further discussions with local authorities. Moreover, I needed a partner for the Asian project. My former Hilti colleague Mr Chen Zhou proved to be the ideal person.

With regard to our requirements, were delivered by May. Qualification two locations – Hong Kong and Singapore – were eventually shortlisted and individual business plans and gualitative evaluation criteria developed for the two locations under consideration. In July 2010, a further 2011 completed the "Setting up an trip to Hong Kong and Singapore followed, this time together with Michael Marhofer and Martin Buck transferred to Mr Zhou. and with the objective to examine the respective conditions on site. On the basis of the business plans, evalreached during the visits on site, the choice for the future location fell on the plant building). Then, a contract was negotiated with the local authorities in charge of foreign direct investments, the Economic Develop- by also sending a text message ment Board (EDB) in Singapore. In autumn, Chen Zhou took up his post as managing director of the new company ifm electronic Asia Pte. Ltd. I was confirmed as project manager

ries production before subsequently taking up a role as member of the Board of Directors. The target deadline for production release (of sockets, to begin with) was scheduled for



ing

a suitable ERP system, recruit staff etc. so as to allow for the start of series production. Our first office was located in the sales organisation in Singapore. Then, in April 2011, we could move into the renovated building. The required machines of processes was completed in time so that we could release series production three weeks earlier than the deadline of beginning of June 2011. The opening of the plant in October integrated plant in Singapore" project, with the responsibility being

In November 2009, when the decision had been taken, Mr Buck had uation criteria and the conclusions sent me an "inofficial order" by text message right from the AK1: "I hereby place an order for a plant in Singapore (including the decision for Asia. SOP by mid-2011 at the latest." On the occasion of the official plant opening on 12 October 2011, I took great fun in referring to this episode which said: "I hereby confirm that the order has been completed."

NICIAI

Hiermit bestelle ich

ein Werk in Asien mit Produktionsstart

spätestens Mitte 2011

: 2011

 12 October: In Singapore, ifm opens the first production and development site in Asia.

The annual production volume exceeds the 10 million euro mark for the first time.



"Half-a-billion mark" hit: In

November, the turnover of

the ifm group of companies

amounts to EUR 500 million.

Dipl.-Ing. Wilko Willuhn,

really need.

INDAG Maschinenbau GmbH

ifm manufactures products you

Project manager Kent Karlsson (on the left) with ifm shareholder Michael Marhofer at opening ceremony in Singapore.



Michael Marhofer, ifm group of companies, Germany

International production. For many years, ifm had been developing and producing primarily in Germany. In the last years, more and more international development and production sites have been founded (for example in Singapore, Poland and the USA).

This was basically due to two reasons: First of all, it became and becomes increasingly difficult to get gualified personnel in the Lake Constance region, especially in the field of development. This increases the risk of a restriction in growth as we permanently need new products if we want to grow. For this reason, many locations abroad were also provided with a development and production department.

The second reason mainly applies to production in Poland where the costs are considerably lower than in Germany. Well, at ifm we also have products for which the production processes cannot be automated at all, or only insufficiently, and where it is rather unlikely that this will change in future. At the same time, the market price for these products is under severe pressure. At some point, we too had to accept that we could no longer exclusively hold on to our initial strategy.

Hence the following rule: Any products for which the production process can be automated or which generate high gross profits allow for production in Germany in the future as well. Any low-margin products that reguire a lot of staff for production and where economic automated production is extremely unlikely to be feasible in the future are produced in Poland.

Michael Pitschlitz,

ifm group of companies, Australia (formerly South Africa)

Expansion in Africa. Since 01 August 2012 ifm electronic has been represented in Africa in a second country - namely in Namibia. Namibia is rich in mineral resources such as uranium, zinc, diamonds and copper. With a population of roughly 2.2 million inhabitants it is renowned and respected for its political stability. In the past three years, Chris Cronje – one of ifm's sales

managers in South Africa – has established sales in Namibia by visiting Namibia every two months and regularly making phone calls. On this basis it was decided to found a company.

At first glance, ifm Namibia is guite small with just two people, but they have ambitious plans. The latest ifm subsidiary is the consistent

translation of the ifm principle of creating solutions in close cooperation with the customer and thus establishing a business relationship from which both sides benefit equally in the long term.

The office is perfectly situated on the outskirts of the Windhoek CBD in an up-market office park. Total office space is 70 m² and comprises two offices, the storage space, the reception area, a small kitchen and the staff rooms.

One of the main reasons why ifm Namibia was not founded as a branch office of ifm South Africa, is that companies in Namibia prefer making business with and buying from companies in Namibia. At present there are only two sensor manufacturers in Namibia with their own businesses: ifm electronic and the competitor Wika.



Intensification of cooperation between Pfingstweid in Tettnang (a home for the handicapped) and ifm, initiated more than 25 years ago: At the beginning of 2012, the second washing plant for reusable packaging is put into operation.



What is ifm guality?



2	01	2	
_	<u> </u>	-	

March:	 March:
The new ifm website with	The CRF Institute rates ifm
its revised product structure	among the "top employers
 goes online. By now, it is 	 2012" in Germany.
available in many languages	•
and for 43 locations.	•
•	- 0
•	•

23 Julv: Opening of a new development and production location in Malvern, USA. Development, production and product management of temperature sensors are from now on located in the USA





Conquers a new market seqment: TD temperature transmitter with display, developed in the USA.

Take-over of the software company Handke under the new name of ifm datalink.



Benno Kathan, ifm group of companies, Germany

The first subsidiary of a subsidiary. The decision to create a development and production subsidiary in the USA resulted from various events. Post 2008 recession was very we would have liked to.

ation improved again and we could finally create new jobs. However, it was incredibly difficult at that time to recruit employees. Another reason were the exchange rate fluctuations of the dollar, which before long made production in the dollar zone economically attractive. In ad- new chapter in life. dition, space problems gradually got worse we were literally bursting at the seams!

the product portfolio with

industry software perfectly

trend.



In July, the newly founded development and production site ifm prover is officially opened in Malvern, USA.

In order to solve the problem, our are now aiming for the 100 % mark. focus fell on temperature sensors as they easily allowed for separation. Moreover, there was also a human factor that came into play: One of painful. We could not really act as our colleagues unfortunately had to deal with a hard blow of fate. As he was THE temperature sensor special-Starting in 2010, the economic situ- ist par excellence, we proposed him as the new manager of development in the USA. It was a win-win situation for both, the company and the employee: We benefited from an experienced manager who did not reguire any training and the colleague in guestion got the chance to start a

Our choice of location was not only positive in terms of "geography" but also in terms of mentality as the people there are simply exactly in line with our way of thinking. This helps reduce cultural differences. Our colleague took our company culture "across the pond" and we can confidently give him his head, thus allowing each of us to focus on our strong points.

Today, 90 % of temperature sensors are produced in the USA. And we

Simone Felderhoff,

ifm group of companies, Germany

Connection technology from Poland. Together with ifm founder Robert Buck +, Chairman and Managing Director of ifm Martin Buck, numerous guests from politics and business as well as 180 new colleagues, the managing directors of the new Polish production site, Andrzej Durdyn and Karl Milz, celebrated the opening in Opole on 1 October 2012.

The official part of the ceremony started at 11:00am. After a speech by Martin Buck, the Managing Directors of ifm ecolink looked back at the construction phase. They thanked all those involved for their great commitment and outstanding support during this time. And in my opinion, it was indeed a great performance, given that the building was constructed and

equipped within only six months from the first discussion until the start of production.

Moreover, not only was I very much impressed with the perfectly organised bilingual event but also with the great hospitality shown to us. The managing directors insisted on personally accompanying us during the visit and were at our disposal for any question whatsoever.

On the new production site's 5,000 square metres, ifm sockets will be manufactured as of now. During the construction phase, the 180 employees took it in turns to visit the main production site in Tettnang. There, the new ifm colleagues got to know the company and the philosophy of ifm so as to anchor the latter in their own country as well.



ifm ecolink production site in Opole, Poland,





: 2012

 1 August: Foundation of ifm Namibia.

1 October: Opening of the new production site in Opole, Poland.

ifm now officially nominated as one of the "Brands of the Century" after having won the "Brand Award of the German Standards".

Time of flight measurement for standard sensors The O5D photoelectric sensor combines the advantages of long ranges, reliable background suppression, visible red light and high excess gain in one unit.





回然回

PMDLine under test



efector mid - Inline flow sensor for precise measurement of liquids up to 600 l/min.

: 2013

•	Since Januar
•	technolgies
•	member of
	companies.
•	ifm consiste
•	their compe
•	microelectro

Since 2013, ifm has their own social media presence on facebook.

Jessica Staub, ifm group of companies, Germany

Social media: Who would not have heard of them? Facebook, Twitter and Co have become an integral



part of daily life for many millions of people today. But do companies also need to join in? We say, "Yes!" After all we want to support our customers directly and immediately, fully in line with our slogan "ifm electronic close to you!". Today, social media allow much more than "just" exchange information and enter into a dialogue with our customers. Our

customers, in turn, get the chance to ask guestions and have them immediately answered.

ary 31, pmdag is a 100 % the ifm group of . With this step, ently extends etence range in onics.

ifm receives SMETA certificate. The Sedex Members Ethical Trade Audit assesses production sites and value chains with regard to their compliance with national laws (on the basis of a defined ethical code).

Sarah Brühl,

ifm group of companies, Germany

Compliance. Many colleagues ask ifm actually aspires to also meet their themselves, "What is it actually about?", "What does it mean for ifm?", "Why do we actually need such a thing?" Since its publication in August 2013, the ifm internal code of conduct has repeatedly given rise to questions on the meaning of the term "compliance".

Wikipedia proposes the following sider this to be definition: "In general, compliance means conforming to a rule, such as a specification, policy, standard or law. Regulatory compliance describes the goal that organizations aspire to achieve in their efforts to danger of collapsing . ensure that they are aware of and take steps to comply with relevant In some cultural groups, it can be laws, policies, and regulations." It can, however, also refer to voluntarily implemented codes.

But does it not go without saying that legal provisions are complied with? Well, as far as ifm is con- liable to prosecution, we prefer to in order to be able to comply with legal provisions, you must be aware of them as well as understand and implement them. This is the responsibility of specially gualified col- To complete the philosophy of our leagues who watch over compliance in their fields of activity and ensure its implementation. This can involve tax regulations, labour law-related or environmental regulations, standards related to the development or ing for all ifm employees and serves marking of our products and much as a guideline for implementing the more ...

ulates much more than "merely" comply with legal provisions.

own moral obligations which means, among others, that we also demand of our suppliers that they comply

with European standards during their production processes etc. Not all companies conself-evident. We all remember

the news on tex-

tile production in a Bangladeshi factory building in

part of "common" business practices that, on concluding a bargain. the representative of the customer receives a benefit of some kind or another. Even if in certain countries and up to a certain extent this is not cerned it definitely does. However, convince by technically highly developed products and by our sales colleagues' expertise and not by granting materialistic benefits

company that has been existing for many years already we have developed and put down in writing, in a clearly structured form, our own code of conduct. This code is bindself-imposed rules in daily work. Every employee can thus contribute The ifm philosophy, however, stip- to the implementation of the self-defined high-level moral obligations.





From 8 to 12 April 2013, the world of automation gathers together again in Hanover. The new ifm fair stand with its LED curtains, in hall 9, stands out immediately from a long way off. Among the visitors: German Chancellor Angela Merkel and Russian

President Vladimir Putin



ifm opens their gates for the company's offspring during the summer holiday: A varied holiday program including handicraft and physical activities as well as trips to nearby places awaits up to 30 kids at the Lake Constance locations.





Arbeitgeberliste 2013



ifm pflegt mit ihren Kunden und Lieferanten einer vertrauensvollen Umgang-

In June, ifm electronic

bewusstsein und die Arbeitsbedingungen der en spielen eine entscheidende Rolle.



website.

 ifm goes online with their own mobile website for mobile terminal equipment (smartphones, tablets). It comprises the most frequently used functions and contents of ifm's standard

In August, ifm publishes their own code of conduct under the headline of

"compliance".

migrates from ERP system BaaN to SAP. In the following years, the individual national subsidiaries gradually follow suit.

The new ifm flexpro buildings were officially opened in March 2013. Martin Buck, Chairman of the Board and co-CEO of the ifm group of companies, welcomes the guests.



2009-2013



610 MILLION EUR IN SALES



5,000 **EMPLOYEES**



600 PATENTS



COMPANIES

.....

£7 Product milestones



3D sensors



Modular mini controller

In June, ifm efector ambh was founded for the development and production of inductive, capacitive and photoelectric sensors.



Industry software

2014-2018 ifm is changing the world is becoming digital.

Warranty on **ifm products**

nos

GHTECH YO



Michael Marhofer,

ifm group of companies, Germany

New Group structure – ifm has their shares in ifm electronic gmbh fundamentally reorganised itself. to ifm stiftung & co. kg. The new ifm electronic ambh used to be the parent company of all our sharehold- which ifm electronic gmbh and also ings and subsidiaries. At the same time it was our largest operative company.

For guite some time, the company has been divided into divisions such as fluid or position sensors.

became effective in January 2014, should accommodate these develop- of companies (Martin Buck, Bernd ments but it also fulfils another imto prepare a change of generations.

This does not mean that this change is imminent but the next generation gets into an age in which we have to prepare to familiarise these young people with the company and also gmbh, ifm process gmbh, ifm posito set up structures which support a change to the third generation in the best possible way.

took more than 15 years of prepanificantly larger, more complex and more international. This does not make such a step any easier.

Owing to these considerations, we have decided to establish ifm stiftung & co. kg on the very top of the new structure as the new parent company for the whole group of generation. companies.

The former shareholders of ifm electronic gmbh have transferred intermediate holding companies in all central Managing Directors are based are also 100 % subsidiaries of ifm stiftung & co. kg.

In ifm stiftung & co. kg. all our shareholders are represented as owners of the whole company. The vote allotment, as so far at ifm electronic The new group structure, which gmbh, has not changed. The recent Managing Directors of the group Busch, Michael Marhofer and Dr portant function: The shareholders Thomas May) are now the responsiof the ifm group have already started ble Board Members in the new parent company.

> The recent Corporate Sector Directors have now been appointed Managing Directors of the intermediate holding companies (ifm electronic tion gmbh und ifm network & control gmbh). They have the same tasks as before.

The last change of generations also All operative subsidiaries like ifm prover ambh or ifm flexpro ambh ration. The company today is sig- are now assigned to the corresponding intermediate holding companies and report directly to the Central Managing Director, just like before to the Corporate Sector Director.

> This structure allows us any freedom for the future and we have taken the first formal step towards the third



ifmLernfabrik



: 2014

 In 2014, a new group structure becomes effective with which ifm is well-prepared for the future.

As virtual umbrella of the organisation of HR Development at all German locations the ifm learning factory is a decentralised and mutually used platform.

ifm ecolink is the first production site of ifm with an ISO 14001 certification. This standard provides a worldwide accepted basis for environmental management systems.







ifm uses energy sustainably: Günther Hohloch, Christian Alber, Bernd Boolzen and Arnold Roth are presented with the reward for ifm.

Smart 3D sensors for mobile machines: The O3M 3D sensor for automatic object detection and fast identification of 3D scenarios.

Camera systems for mobile machines in the application





In close coordination with users the new generation of the PN pressure sensors was created. They are distinguished by even more user-friendliness and improved visualisation.



identicom in Essen is looking for a cold challenge: Matthias Jablonski (left) with his colleague Hans-Peter Hoffmann during the Ice Bucket Challenge.



In 2014, three English colleagues, Paul Stansfield, John Wilkinson and Steve Owens, meet a special sports challenge: They go by bike from the English ifm branch office to the ifm headquarters in Essen. They cover a distance of 512 kilometres which means 26 hours on the bike.



Matthias Jablonski, ifm group of companies, Germany

erberg, Bill Gates and Lady Gaga have one thing in common: They all met the physical challenge to animate others to participate for a good cause in the summer of 2014.

Ice Bucket Challenge. Marc Zuck- disease. The challenge was to pour a bucket of ice water on your head and then to nominate three or more people to do the same within 24 hours and to donate 10 dollars or euros to the ALS Association. If you The ALS Ice Bucket Challenge was did not want to pour a bucket of an event intended to be a donation ice water on your head, you should campaign in the summer of 2014. It donate 100 US dollars or euros to was to promote awareness of the the ALS Association (ALSA), ifm I waited too long with the video, I motor neuron disease amyotrophic joined this campaign (for from our lateral sclerosis (ALS) and to collect point of view also important other donations to research and fight this organisations). In just two weeks

more than 30 funny, surprising and above all "refreshing" videos were made within a short time. ifm staff from all over the world joined in and donated more than 2.300 euros. with or without video and ice water. Mr Marhofer, Chairman of the ifm group of companies, rewards the commitment of the ifm staff: "Since will double the amount donated by 26 September."

: 2014

On 10 July 2014, ifm sells the Glückaufhaus to Cordea Savillis, an internationally active investment management company.







On the occasion of ifm's 45th birthday a poster was created as a visual "family reunion".

Pmd

Sabrina Buxbaum, pmdtechnologies, Siegen

On an equal footing with Goog- on massive miniaturisation of the le and Lenovo. It all began at the technology as well as enhancement Consumer Electronics Show (CES) 2014 in Las Vegas, the world's largest trade fair for electronic trends and IT the Tango project was to give mobile solutions, with over 170,000 inter- devices the same three-dimensional national visitors. From 2009, when the global technology leader for 3D time-of-flight image sensors pmd



ket strategy, the CES has been a basic factor and tioned as vearly kick-off event there is no other location where all the major players in the

industry can come together within a few days and make or intensify initi- comm was presented at the Google ating and important contacts.

2014 saw the decisive meeting with Google to discuss 'Project Tango'. After an impressive presentation of the then 3D camera system, the colleagues from Mountain View were convinced of the potential for mobile applications. Dr Bernd Buxbaum, CEO, remembers, "Johnny Chung Lee, project manager, It was a long and bumpy road: It can and the Google Tango team were working at full speed on the vision of a human, three-dimensional perception of the environment. After and Lenovo at an equal footing and the presentation of our prototype camera there was a key scene: The Tango team had eventually found the hoped-for performance in combination with the small size. Enthusiasm was tremendous. It was a goose-bump moment that everyone who was there likes to remember and which plays a decisive role for our company development." As a result, first projects were carried out with Google. The focus was placed

of the software algorithms and the depth map computation. The aim of appreciation of the environment as people have.

presented a new company and mar- The first milestone was the integration of the 3D technology in tablet prototypes, presented at the Google I/O 2014. In a second step, pmd had has also func- to overcome 3D technology competition in a benchmark project. Then, on account of Google's parallel since 2010: For development of the Android ecosystem for 3D technology (3D camera support on Android operating systems), Lenovo approached pmd and Google in 2015 to become the first Tango OEM. In addition, Qual-I/O 2015 as a partner and processor manufacturer for the project. On the basis of this constellation, the pmd technology was integrated into the first Tango-based smartphone called the Lenovo Phab2 Pro. Lenovo officially presented this product at the Lenovo Tech World in San Francisco on 9 June 2016.

> surely be said that pmd as a relatively small company managed to work with big companies such as Google was appreciated as such.
Andreas Fobbe,

ifm group of companies, Germany

Slowness. How to develop success- we found out that unfortunately fully in a country where you march to the beat of a different drummer, and there was a typing error: Doors when you bridge unexpected time windows in a meaningful way and even work in front of "closed doors" So what to do without any city activis linked for me with the following ities close by? adventure:

south of Chile, the slower the marching tune and life goes at a Sales Manager ifm Chile, and myself could experience it when we visited the forestry and paper trade fair "Expocorma" in Concepción. The flight from Santiago to Concepción was in the middle of the night to make sure 9 h in the morning.

So we were standing in front of the meaningful way. entrance like many other visitors and were waiting for the doors to open. After guite some seesawing in Concepción are known for their

everything had been postponed opened not before 11:00am!

Quickly following the advice of trade The farther south you get in the fair staff and taking a public bus to the next mall to deal with necessary phone calls and emails at a coffee more leisurely pace. Marco Zamora, shop or restaurant with internet ac- small ifm team continuously wins cess. Unfortunately we had to find out that all facilities in Concepción do not open before 11 a.m.! So we 2017 the required expansion into eventually found ourselves sitting on a bench in front of closed shops and had the meeting which had food industry towards ifm Chile. to arrive on time for the opening at been planned for the next day at So not that "lazy" anymore, this the office in Santiago. This way the Concepción ... waiting time could be bridged in a

Later on we learnt that the people

"slowness" and in general it is said in Chile: "Lazy Concepción".

Today the branch office ifm Chile develops faster than "planned on paper" thanks to the mix of integrators, customer visits and customer contacts via telephone, Skype or chats. The focus of the branch office ifm Chile is on food and beverage and is complemented by customers in the nearby copper mines. The new customers and the market share in the country increases. For the south of Chile is pushed to create greater loyalty of the local



ifm in Brazil



Attractive packaging: intelligent incremental encoders with display and IO-Link.



Smart flow rate measurement mailer for the new inline flow meters with user-friendly display.



The team of ifm Chile.



: 2015

• The ifm group of companies is certified as "Ausgezeichneter Ausbildungsbetrieb" (excellent certified training) company) by ertragswerkstatt GmbH.

Since January 2015, ifm has had the short URL ifm. com – a lengthy process has now been completed, and another milestone in online business has been reached. It is now even a top-level domain, meaning that ifm websites can also : end in .ifm.

1 April: The ifm group of companies has a new subsidiary: ifm electronic SpA in Chile.

ifm and SAP agree a "Memorandum of Understanding" As early as December 2014, ifm was certified as an SAP partner for "SAP Integration with Cloud Solutions".

ifm Engineering India receives the EN ISO 9001:2008 certification.



Early January 2015: Opening of the new logistics centre of ifm electronic Ltda. Brazil in Guarulhos / São Paulo. The opening was officially celebrated on 27 February in a cosy atmosphere with live music.

> 13 March THW awards ifm: Many employers, among them ifm, support the Technische Hilfswerk (THW, provider of professional help to people in distress) thus ensuring civil protection on a voluntary basis in Germany.





In the context of the "German Design Award" two ifm sensors are awarded on 27 February: the PN pressure sensor with special mention and the O6 WetLine photoelectric sensor. Another success for the PN: On 29 June, it receives the world-famous Red Dot Design Award.



Laptops for students: In March 2015, ifm enters into an educational partnership with the Bildungszentrum Parkschule Kressbronn.





The new company headquarters ifm efector in Malvern, USA.





In August 2015, the new 4,181 m² company headquarters of ifm efector USA in Malvern is opened. The modern building provides lots of space for future growth on

the US American market.

In November ifm prover USA

starts with the production

of the flow sensors of the

2015, manufacturing of the

SU series. In December

SV series begins.











: 2015

• ifm consulting merges with ifm datalink. The new company name is ifm datalink gmbh.

In cooperation with some German medium-sized enterprises from the automation industry the Singapore EDB (Economic Development Board) starts a training program which ifm joins.



In a common project between the GEA group of companies, ifm and SAP Germany, the vision of "Industry 4.0" becomes reality. The essential part of the project is the efficient design of predictive maintenance and condition monitoring of machines.

Opening of the new company headquarters of ifm efector USA in Malvern, Pennsylvania.



Michael Marhofer, ifm group of companies, Germany

ifm knowledgenetwork. With the go-live of our ifm knowledgenetwork on 19 November 2015 we created the basis for digital networking of all ifm colleagues around the globe.

The ifm knowledgenetwork will be the central platform for our knowledge and our cooperation across all locations.

With the ifm knowledgenetwork, we make a great jump ahead in order to offer our increasingly demanding customers what they have always appreciated in us: competent and unique brand ambassadors with a passion for innovative products and solutions. In a constantly growing world of products and markets, new approaches are needed to make this knowledge more accessible and to protect employees against excessive strain.

The ifm knowledgenetwork is not intended to replace personal contact, but it constitutes a short-cut if it is not possible to meet in person. It is not intended to become an additional information channel, but it is designed to help us reduce effort and work in a reasonable way.

The project team around Marie-Isabelle Mönnig, Jessica Staub, Mark Kumbruch, Frank Niedermann and Jörg Rieck has worked hard towards this day with a lot of heart and soul and commitment for one year. Thanks to the committed cooperation of many ifm colleagues and their ideas a platform has been created which meets the requirements of modern cooperation. As a member of the steering committee I could already gain some insight in advance and my enthusiasm increased the more the ifm knowledgenetwork took shape. We are now starting with a basic version which will continue to be further developed in the next few years so that we can replace all Lotus Notes databases successively.

Now it is up to all of us to let the ifm knowledgenetwork come to life by curiously discovering its possibilities and leaving our own traces there. A knowledge platform lives on giving and taking.

With this in mind: create - connect - share!









Dr Bernd Buxbaum, pmdtechnologies, Siegen

Brave new world. When US Presi- In general, there is currently a great dent Barack Obama visited the stand trend to provide smartphones with of the ifm group of companies at an improved perception of their Hannover Messe 2016 and put on virtual reality glasses, he was obvi- with additional sensors (such as 3D ously fascinated. This reaction can be cameras) and algorithms (deep learnwitnessed with everyone who uses ing for artificial intelligence) which this technology for the first time. It is indeed very fascinating to plunge from the real world into an entirely future smartphones will be able to new and maybe distant or even in- recognise and understand their enviaccessible world without much ado or to add virtual objects to the real world (augmented reality). Things can perform tasks that help and supbecome even more impressive if you can interact with these virtual objects in an entirely natural way and manip- So it is no surprise that the President ulate them with your hands as if they were real.

This is exactly what the President and than ten minutes of intensive discus-Chancellor Merkel experienced when they tried the Google Cardboard glasses that had an integrated 3D camera from pmdtechnologies. To In the framework of the expansion fly across a virtual city and to change the direction just by using your hands, ternational business of pmdtechnolto travel "as free as a bird"... Who would not like to do it? Thanks to innovative camera and display technologies on modern smartphones, ited company). So the course was set now anyone can experience this. This for a considerable growth which is makes various applications possible that range from games (casual gam- try with smartphones and the autoing) to professional purposes. The present hype about the augmented reality game Pokémon Go shows how many users are fascinated by the new possibilities.

Obama schaut durch Essener Augen

Einen Hingucker gab Barack Obama auf der Hannover Messe ab. Der US-Präsident informierte sich über "Virtual-Reality-Brillen" beim Aussteller "ifm Electronic" aus Essen. Solche Brillen ermöglichen realistische Darstellungen direkt vor dem menschlichen Auge - unter Berückichtigung der Bewegungen des Kopfes. Nachmittags kam Obama mit Europäischen Reerungschefs zum Minigipfe

was visibly impressed and proclaimed "It's a brave new world" when he left ifm's exhibition stand after more sions instead of only five minutes as had originally been scheduled.

environment by equipping them

also open up new applications. This

makes it possible, for example, that

ronment and relate to it in a way that

is similar to us humans. Such devices

port us humans in certain situations.

of the more and more increasing inogies, the legal form of the company was changed from GmbH (private limited company) to AG (public limexpected from the consumer indusmotive industry with driver assistance systems on the basis of 3D cameras.

US President Barack Obama and Chancellor Angela Merkel with Michael Marhofer and Dr Bernd Buxbaum (r.) at the ifm stand in Hanover.

: 2016

12 January: ifm holds a majority share in Qosit AG.

pmdtechnologies and ifm efector USA become active with a joint branch office at Silicon Valley, California.

0

AT VENE

Ultrasonic sensors are added to the position sensor range for the first time.



Mailing campaign with the newly launched O3D 3D sensor.



Chancellor Merkel and President Obama visit the ifm fair stand at Hannover Messe.





Martin Buck and Klaus Unger (on the right) at the official opening ceremony of the ifm production site in Sibiu, Romania.



Complex international advertising campaign: Presentation box for the inductive Kplus sensors with constant correction factor.



Für Hin**guck**er.





100 staff and around 9,400 active articles find their new home at the logistics centre in Essen.

îF.

One of the most modern logistic centres in Europe.

A true eye-catcher. Advertising for the "VISION" trade fair in

Stuttgart.

Klein aber oho! Das neue Opto-Highlight O8 in Miniaturbauform.



close to you!

THE MOVIE

Ines Mehler. ifm group of companies, Germany

"Quiet please! ... aaaaand action!" the competitors. "ifm means service whether it was very hot or it was

rate film started in spring 2015. After

year.



focus on "ifm company slogan has become an ifm's commu-

nication for years now, but what exactly does it mean? The film wants to answer this guestion yes, to meet this challenge and intends to empha-

Halle 1 · Stand E10

ifm - close to you! www.ifm.com

: 2016

The ifm subsidiary pmdtechnologies becomes a public limited company.

The ifm logistics centre in Essen, one of the most modern logistic centres in Europe, is officially opened in early February. The Board, everybody involved in the project and project partners as well as the staff were present



Software for systems from sensor to SAP: The newly founded TISC AG combines QOSIT Informationstechnik GmbH and G.I.B. mbh as holding under one roof.

12 November: ifm founder Robert Buck passes away at the age of 81 in Tettnang.

Close to you! The Movie



Shooting of the ifm image / corpo- and passion, and the people behind the technology". How can someintensive planning and final coordi- thing this abstract be conveyed in nation with ifm's Board of Directors. a four-minute film? Given that we the shoot of a one-of-a-kind project place the focus on people and want crossroads or with the drone well took almost one to credibly convey emotions, we need people who speak authentically in the world, everything was captured front of the camera. Therefore, the The film should project team spent the first half of the year looking for interview part- The corporate movie has a speaker close to you!". ners among staff and customers for The well-known an "honest" interview. And as the ifm group of companies is a global company, employees and customers integral part of from all big international markets of ifm were asked. Filming began in Europe and North America and in November in Korea, Singapore and Malaysia. The shoots in the different places were all very exciting. In every sise ifm's strengths as compared to country the conditions were different,

very crowded due to traffic congestions, despite all odds the film team managed to film everything, partly until late at night. Whether at busy above the most famous buildings of in sound and image.

in addition to the original audio of the interview partners. The speaker enriches the film by giving facts and figures. The film has now been translated into more than ten languages and is widely used. A very fascinating project which has reached the target of communicating ifm's "core".



Stefanie Heib, Mario Holt and Torsten Schwermann, ifm group of companies, Germany

So much more than just a website. must come to In 2017, there were more than one billion websites worldwide. Of course, ifm had also been on the internet for a long time and had been communi- tive support of cating with customers online. How- the marketing, ever, what does a modern business website need to offer if it is supposed to become a leading website among automation technology competitors? Generation Z expects a website presenting products in a unique way that also gives the user helpful advice.

It is estimated that the year 2020 will have a global B2B market of 6,700 billion US dollars. What an incredible potential for our future growth, or is petitors will suddenly generate their sales online? If, so far, online sales had been playing a side role in the ifm world, we were now considering it a great opportunity to establish the online shop as an additional sales channel. For this purpose, a couple of cornerstones were defined that would project later evolved:

- The shop is supposed to please users by being easy and intuitive to handle.
- The customer portal, myifm, offers been formed that focus on web deservices to manage personal data, shipping options, payment, and many more.
- The content is always new, interesting and useful to our customers.
- Products can be found intuitively and with a few clicks.

So far, everything is understandable content elements are available in more for everyone. However, in a 6,000-person household, it is not that easy to turn everything inside out. Keywords like "high degree of integration" or Go if monline - browsing, choosing "holistic architectural consideration" and ordering in the ifm webshop.



life.

was

with

product management, sales, IT and web development departments. A first preliminary project resulted in a rough system architecture consisting of CMS (Content Management System), PIM (Product Information Management) and shop system. The next step was to carve out and implement the details.

The PIM system is the core of the faceted search and the detailed product pages. What makes this system so it rather a risk if other and new com- important? In the old system, for example, the operating voltage of 15,000 articles had been documented and rendered in 342 different versions. It was sheer madness to drag this attribute in so many versions through different product groups and selectors. Today, this attribute is subdivided into seven different facets that can be have a decisive impact on the way the combined individually for each product. The result is increased flexibility while complexity is under control.

> The project even led to tangible structural changes. New teams have velopment, product data and online marketing.

Towards the end of the project, the many people involved in the project became aware of what they had accomplished. 50 different databases had been discontinued, and the modern online shop was rolled out in 49 countries. The product data and many than 25 languages. The foundation had been laid, and the further strategic development follows the message:







Vera Lerch. ifm group of companies, Germany

Compass for executives. In 2014, the Management Board asked us to also offer training courses for executives in the ifm learning factory. When we wanted to know more precisely what our executives were supposed to learn, we had to start from scratch, i.e. we

needed to define what ifm's understanding of management actually is. The strategic management competence programme was supposed to apply to all locations, focus on the requirements and practice while being modular, pragmatic, measurable and sustainable. It was supposed to consider ifm's corporate philosophy, vision, culture and, of course, the employees' requirements.



The result was the K8 competence model in the shape of a compass. The model and the elaboration of the competences is able to grow with the requirements. This will also be necessary, considering our constant growth and the challenges of the future.

2016	2017
11 August: The ifm subsidiary i-for-T, specialist for detection, analyses and diagnostics of highly dynamic vibration data in real-time changes its company name into ifm diagnostic.	1 January: The new ifm webshop goes online.



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 4 January:
The ZenFone
"best smartpl
the Consum
Show (CES) i
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equipped wi
from pmd te
•

The ifm Vietnam team with Sales Manager Frank Spitzer (on the left).



Tin-Chee Man, ifm group of companies, Germany

Small family. ifm had been cooperating for years with local trade partners in Vietnam who were selling ifm products on a local basis. However, the great potential of the country lead to the decision to set up an ifm location in Vietnam.

Said and done? It was not that easy – especially because of the language and legal barriers, but also because we were not familiar enough with the market. This is why the first step in 2012 was to found a representative office in Ho Chi Minh City with the goal of studying the market more precisely and to become familiar with the local situation in general. The staff was restricted. We began with three employees. Two of them are still with ifm Vietnam today. The team was guite young, but able to gain many sales-related and technical experiences by visiting customers together with trade partners.

e AR is awarded hone 2017" at ner Electronics in Las Vegas. It is ith a 3D camera echnologies.

After five years, we finally dared to take the next step and founded a 100 % subsidiary. The foundation process was very bureaucratic. Some documents had to be signed and submitted to the authorities several times because the legal situation had changed in the meantime, and the bureaucratic processes were not properly coordinated with each other. With the help of colleagues in South-East Asia, ifm electronic Vietnam Co., Ltd. was officially founded in March 2017.

For our team in Vietnam, this was yet another challenge. There are many tasks in various areas, for example, finances, marketing and, of course, distribution. This ifm location, as so many others, is like a small family. Everyone gives a hand, and everyone tries to help as much as they can. The Vietnam team has become part of the ifm family. In the beginning, it will not be easy, but we believe that our colleagues will manage to establish the ifm brand successfully on the Vietnamese market.

Nadine Rahman, ifm group of companies, Germany

Thinking new ways. In 2013, I had finally managed to leave SAP after 13 years, and since the position as Managing Director became vacant in Singapore at that time and Michael Marhofer offered it to me, I became a lucky member of ifm. Three years departments. later, Michael Marhofer called me again and told me he had invested in a company that does SAP and if I would like to offer my support there. GIB disposition and logistics. This is Hence, I packed my suitcases again, travelled to Siegen and joined TiSC for all specialist areas along the value AG's Board of Directors in 2016.

The company was founded in 2016 and is the current answer to digital transformation that is driven by Industry 4.0, IoT, Suite on Hana, S/4 and, finally, the SAP cloud platform. Since 2018, the ifm group owns 100 % of TiSC, and it was renamed as ifm solutions gmbh in March 2019. As world market leader for sensor technology and shopfloor-re- them the decisive competitive adlated software, ifm brings the exper- vantages by being fast, competent tise for the acquisition and transfer to connected systems. Since 2015, there has been a close cooperation with OOSIT in this area. Their special field is intelligent aggregation from big data to smart data including reliable data transport to the cloud or connected enterprise resource ways and alternatives. This makes face where GIB comes into play as namic. internationally acting producer of software to optimise SAP-controlled logistics processes. The company has established itself in the market of system-controlled supply chain management.

Industry 4.0 players ifm, GIB and ly of each other on medium-sized businesses with a strong inclination towards the manufacturing industry.



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es on production, QOSIT (since 2019, ifm services gmbh) addresses IT and how we have a competent answer chain, which enables us to develop precisely tailored Industry-4.0 solutions.

Digitalisation has been playing a leading role for guite a while, but not all of our customers have realised it vet. As a technology company. we feel responsible to advise and support our customers on the path to a digital future and to guarantee and reliable.

Of course, we also benefit from the new technologies. We perceive them as something very liberating in the field of software development. We are coming up with entirely new planning systems. This is the inter- our product range a lot more dy-

Our focus is on people, and consequently they are at the centre of our IIoT (Industrial Internet of Things) strategy for a digitalised value chain. The basis for this is our guiding thought to provide the right users In relation to customers, the three in the network with the right information (not data!) in the right place QOSIT have focused independent- to help users make the right relevant decisions for business optimisation.



ifm ecomatic in Kressbronn starts to produce the new controller generation, ecomatController, for mobile machines.



What did the glasses see?

Sensor no. "1 million gets its label.



: 2017

 21 March: Foundation of a branch office in Vietnam.

26 April: At Hannover Messe, ifm and SAP announce their collaboration even more intensively in the field of IoT (Internet of Things).

The German Federal Minister of Economics, Brigitte Zypries, is trying to control the plans of a digital factor virtually, along with Michael Marhofer, Chairman of the Board of the ifm aroup.

Oana Nistor and Alina Radulescu, ifm group of companies, Romania

Team spirit. For the plant in Sibiu, the most important goal is to create a pleasant working environment where employees feel like spending a large part of their professional life. Everything is designed to support this motivation. With the help of the team and the results achieved, it was possible that just one year after the SOP, on 14th of March 2017, the 1 millionth sensor of the plant would be delivered.

For us, "close to you" is more than just a motto. It represents the philosophy of ifm, it is our approach for the client and at the same time, the manner in which we try to meet his/her needs. "close to you" also refers to our employees since ifm has an open management that focuses on the



individual. In our view, "our family" consists of people who have team spirit, who are honest and show initiative values we would also like to find in our future colleagues.



Strong communication concept for Hannover Messe ranging from banner to give-away.



Peter Winterscheidt, ifm group of companies, Germany

Brand presence. Marketing communication has always been changing along with the increasing size of the company. Today, the focus of the advertising image is no longer exclusively on the product features, i.e. the "hard facts", but more and more on the brand. Entirely new measures have been introduced, to present ifm on a larger stage. The communication concepts developed for the national trade fair events, Hannover Messe, SPS Drives or VISION, included billboards in city centres, railway stations and airports. Mega screens at exposed locations and mobile screens driving around on the trade fair premises present the recently developed slogans "ifmnovation - ifmdustrie 4.0 - ifmspiration". Ads are taken out on full pages in magazines such as "Wirtschaftswoche" and "DB mobil" whose high circulation contributes to the brand presence all over Germany.





The year 2017 has a guite successful start for ifm Poland: For the first time, the branch office is awarded with the "Diamenty Forbesa" by the important Polish Forbes magazine and wins an award in the "Gazele Biznesu" ranking, which is for small and medium-sized enterprises that have a particularly dynamic growth.



Ines Mehler, ifm group of companies, Germany

Silver Dolphin for ifm. Cannes – there is hardly a city that is so closely and legendarily linked to film festivals as the city located on the Côte d'Azur. The "Cannes Corporate Media & TV Awards" for the world's best corporate films, online media and TV productions have been taking place in Cannes, too, every year since 2010 and show that the term "film" does not only refer to feature-length blockbusters featuring big stars from Hollywood. With "Knocking without touching", an image film for the non-contact inductive sensors from the Kplus series, ifm has managed to be among the winners of the "Cannes Corporate Media & TV Awards" in the category "Integrated Communication films and videos as part of a larger communication campaign". ifm was awarded the Silver Dolphin at the festive Awards Gala Dinner on 28 September 2017 in Palm Beach Cannes.

This award is a good example for how great the reward can be if you have the courage to address the B2B market with emotional, unusual and unconventional product adverts!

The end credits clearly read: ifm can(nes) do it. Simple as that.



Award ceremony in Cannes

Matthias Jablonski, Senior Department Manager Advertising & Marketing (2nd from left), with Video Team Leader Ines Mehler in Cannes.



ifm diagnostic gmbh celebrate their move to a new building in Rosenheim with a family party on 10 November.

Trade fair innovation 2017 from ifm diagnostic: diagnostic unit VSE 150 with fieldbus interfaces.



RFID-Antenne mit

200 mm Reichweite

und Diagnose-LED.

Andreas Kim, ifm group of companies, Korea

Success thanks to a guardian angel. This year, ifm Korea have celebrated their 10th anniversary. I knew from the very beginning how we would manage to grow in security in the highly competitive Korean market. The best expertise, the best products, fast deliveries and trust these are the key factors.

In the beginning, ifm Korea participated in important trade fairs like SIMTOS in 2008. There were only a few visitors, but only four years later, in 2012, we had 1004 visitors. In Korean, "1004" is pronounced exactly like the word for "guardian angel". This success has also been achieved with the great support from the headquarters in Essen.

Today, ifm is a leading sensor and system provider for industrial automation in Korea

and has gained trust and rewith spect innovative and flexible product and service offers, as well as a well-trained sales force in accordance with



ifm's corporate philosophy. The same applies to the focus on local presence - close to you!

This is how ifm Korea has been accomplishing stable growth for ten years and will be successful during the stage of digital change.



"The SUMMIT" will be the largest technology centre in South Westphalia and the new home of the four ifm subsidiaries from Siegen, ifm solutions ambh. GIB mbH, ifm services gmbh and pmdtechnologies AG.

: 2017 20 October: Laying the foundation stone for the technology centre "The SUMMIT" in Siegen.

27 November: ifm prover srl start their production in Sibiu, Romania, by manufacturing PT/PV type pressure sensors.

Martin Buck (Chairman of the Management Board). ifm group of companies, Germany

Digital change. We are not only happy with our sales development, but also the "clouds" that are covering the digital change here and there, are slowly disappearing, and we are beginning to see clearly how ifm can be successful in this field.

If only a year ago many of you might have asked with which products, solutions and business models we at ifm can earn money with the digital change, it is now more than obvious customers, we will train employees that condition-based real-time main- step by step who will deal exclusivetenance will form both the fulcrum and the nucleus. Solutions to optimise energy efficiency and production the requested solution packages, but quality will follow.

In a not too distant future, sensors of our customers. will place orders for spare parts and automatically plan maintenance The feedback from the market is very measures. Maintenance, repair and improvement measures can be carried out at the right time and in the right place. This increases the machines' availability and improves the efficien- the theory of Industry 4.0. cy of our customers' production.

This partly automated future will be prepared in a first step by "small solutions" for condition monitoring - we network our diagnostic sensors, visualise important information and our software signals changes on the machine which could lead to interference in the production processes.

With the help of our two subsidiaries GIB and ifm services, we will be linking the machines' diagnostic data with SAP next year so that the right

employees will be informed in good time and targeted maintenance processes will be triggered in SAP. Weak points will be indicated immediately. To put it in a nutshell: Our customers want to see rejects and waste in real time - our consistent solutions will provide improvements in real time.

In the development, product management and sales departments and for on-site project management for our ly with the development of this new business area. We do not only provide also the service to integrate our solutions in the machines and IT systems

promising: Renowned companies consider our solutions as a pragmatic step towards further factory digitisation and a practical implementation of

At the same time, our organisation is facing the challenge to integrate unfamiliar processes in almost all areas of the company. No doubt, there is still quite some work ahead of us but one thing is for sure: Your support secures a new piece of future for us.

The Fraunhofer IAO and Management Circle reward digital start-ups that have created strong property rights portfolios for digital markets with the IP-Management-Award. Among the winners 2018: ifm syntron, the subsidiary that has developed 3D camera systems for industrial and smartphone applications in collaboration with pmdtechnologies



More benefits O IO-Link



It is capable of processing binar switching signals and analogue values (e.g. 8 bits, 12 bits, 16 bits) The transmission between IO-Link aster and device takes 400 µs at a speed of 230 kBaud.

New channels: The Indian YouTuber Raivir Singh creates the first two videos about IO-Link for ifm and shares them on his YouTube channel for PLC training courses with more than 44,000 subscribers.



ifm stand at the Anuga FoodTec in Coloane



Continuous position

feedback – now with

diagnostic function.

The European Commission as ifm ecolink's quest in Opole: The guests were full of appreciation for the work

In March, ifm participated for the first time with our own stand in the Anuga FoodTec trade fair in Cologne.

Marie-Claire Fink, ifm group of companies, Germany

ifm cares. In the corporate philosophy, ifm's Management develops a "vision of the future": A world in which 15 billion people exist who need all kinds of things is a tangible future scenario on which we base

our actions. There is one thing that makes this particularly clear: ifm thinks about the world and the people who live in it. ifm assumes responsibility. And ifm cares: ifm supports numerous social initiatives ranging from school projects in South Africa or help for victims of the earthguake in Mexico or the support of children with cancer in Germany. Since ifm is worldwide, ifm's engagement is worldwide as well.

The logo "ifm cares": Three figures carrying the slogan "ifm cares" together. The logo shows what "engagement" actually means for ifm: Together you make a difference, you take the initiative and move something together with your colleagues for the benefit of others.



Relief supplies for public institutions in Ukraine: ifm colleague Markus Brunold supports the non-profit organisation H.O.P.E – we help children.

:2018

 26 February: Leica Camera and pmdtechnologies announce a strategic partnership for the joint development of objectives for 3D depth measurement for the smartphone segment.

and innovative strength of ifm's engi-

neers and were visibly impressed when

inspecting the presented products.



Verena Gruber,

ifm group of companies, Germany

Germany and the German subsidiar- ing and to a guite regular workflow ies changed over from BaaN to SAP. with strict requirements and laws, At the same time, our branch offices it is, at least in the beginning, a bit in Austria, Hungary and the Neth- difficult to get used to project work. erlands underwent this changeover. You never know what to expect In 2015, they were followed by the with the next project. The specific sales offices in Great Britain and Ire- requirements for each country rarely land, but that was only the beginning of the roll-out wave. In the following months and years, seven other foreign sales offices and four production sites



were changed not yet the end contrary. of it.

Today, there are two parallel project teams, one for the sales offices and one

for the production sites, consisting of more than 30 employees and, of course. local key users who are work- fers from state to state. ing on changing further locations over to SAP.

When I had my job interview at ifm fifteen years ago, the trainer back then asked me why I wanted to re- far from home on business trips. This ceive my professional training here. is why it is so important to collabo-One reason for this was that I found it fascinating to work for a company get along and to support each other. represented in so many countries. Without this mutual support, some She answered that my commercial tasks would probably not have much to do with that. It would turn out that was the case. she was very wrong ...

After more than ten years in the Financial Accounting Department, I have changed over to the SAP Finance Competence Team three years ago. I am now part of the SAP roll-out inside. team for our sales offices' financial service and have travelled to six countries so far and have been in touch with many more.

From BaaN to SAP. In 2013, ifm If you are used to financial accountjust allow simple "copy & paste", the people with whom you collaborate are always changing and it is always necessary to familiarise yourself with each country's particularities. It is over, and this is certainly never boring. Quite on the

> For example, people in countries like France and Spain still like to pay with bills of exchange, in Italy it is called RiBa and works in a very similar way, in America they love cheques and also have a very sophisticated tax system. There is no standardised VAT rate in the USA, and the sales tax dif-

> Project work also means to adhere to agreed deadlines, and it is not unusual to work one or the other night shift for this. You spend much time rate with a team with whom you of the SAP starts would certainly not have been as punctual as eventually

I am glad to have met many great and interesting people through my work, people you can rely on and who are just like a second family. Somehow, we all have a little "orange blood"

Sara Jean Kwapien und Yuen Li, ifm group of companies, USA

Running for a good cause. On 21 June, ifm USA hosted the seventh annual Orange Run. More than 275 walkers and runners of all ages, in- delicious food cluding colleagues from ifm USA and and beverages. their friends and families, local busi- Medals were ness partners and dedicated runners awarded to top and walkers from in and around the community gathered at the Atwater Corporate Center. Thanks to donat- champions and ing employees, raffle ticket sales, first place male and female in differregistration fees and support from generous sponsors, our family-friendly 5k and 2k runs raised more than ifm USA CEO, Roger Varma, start-\$21,000 for two organisations ded- ed the evening by welcoming the icated to the battle against cancer, the Cure4Cam Childhood Cancer the Orange Run originated six years Foundation and the Breathing Room Foundation.

The Cure4Cam Childhood Cancer Foundation raises awareness about paediatric cancer, its effects, and its current treatments. It also raises funds to support the development of on her health. Lizanne's journey with new, less toxic therapies for children fighting the disease. Cure4Cam was initiated by the family and friends of Cameron Evans from Downingtown, PA, who lost his battle with cancer in 2012 at the age of fourteen.

The Breathing Room Foundation is best described as neighbours helping neighbours who are affected by cancer. The BRF provides meals, ing that our collective efforts, time transportation and financial support and helps in all imaginable ways to the community in making a positive reduce the daily stress connected to a life with this dreadful disease.

At the event, runners were challenged to push their limits and traverse the hilly 5k course throughout the surrounding neighbourhoods, while walkers strolled along the scenic path in the Atwater Corporate Center. Afterwards, everyone

enjoyed a postrun party with live music, overall male and female 5k

ent age groups.

crowd and reminding everyone that ago when ifm employees learned that one of their most dedicated colleagues, Lizanne Dathe, was diagnosed with Stage 4 cancer. Funds raised from this event covered outof-pocket expenses associated with treatments so Lizanne could focus cancer ended on April 26, 2014, but the ifm-family commitment to help those affected by cancer in her memory continues.

When the run was over, we could celebrate our success: the amount raised in the previous year was even exceeded. More importantly, aside from this achievement, we're hopand energy contributed to uniting impact in our society and in the lives of others. ifm - close to you!





: 2018

15 March: The Lighthouse smart home camera is brought to the market. It works with 3D depth measurement from pmdtechnologies and can differentiate between adults, children or pets.	4 July: ifm founds a subsidiary in Israel.
 children or pets. 	0
•	0
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From 8 to 9 June, the #ifmHackathon took place for the first time at the ifm location in Bechlingen. 19 students from the neighbouring technical universities faced the challenge to create and present a zero-error packaging concept in 13 hours.

The word "Hackathon" comes from the world of computers and refers to an event where software solutions for a specific task or problem are developed in a limited time.



Bernd Bentele, ifm group of companies, Germany

Excellent education. Education at ifm is a very special kind of success story: If ten years ago ifm had about 60 trainees, today, about 130 young people are enjoying their education or their dual studies at the ifm group of companies at all German locations including Siegen.



ifm has been educating trainees for more than 35 years. Ever since, the family-owned company has been focusing on educating its

own young professionals.

Expert knowledge and ifm knowhow have, of course, always been the most important aspect. However, ties that are characteristic for an education at ifm are being emphasised:

• ifm trainees are particularly well integrated into the work processes.





- Treating each other with respect is only natural. The focus is on the individual.
- Career opportunities at ifm are far above average.

This feedback is also reflected by the educational philosophy that ifm has been following from the very beginning: The individual needs to match ifm and, according to ifm's corporate philosophy, we would like to offer trainees an interesting workplace.

We have always been bound to this ing at the ifm locations in the Lake educational principle with all official trainers and training officers in the departments, and it is the maxim of development of the education at ifm. all our actions.

The conditions have been changing all the time. It is no longer that easy surveys show that other particulari- to find the right applicants. Sometimes, an apprenticeship training position will remain vacant if we are not entirely sure about the applicant. However, the focus has always been on the technical areas. Electrotech-

nical, information technology and mechanical engineers and students form the core of the future strategy of all educational efforts. The main goal is to create the ideal conditions for trainees and students to face the competitive pressure on the market.

To keep up with this development, we will set up a training and competence centre for information technology in 2018 that will be run by a full-time training supervisor.

I have been in charge of the train-Constance area for ten years now, and it is very exciting to witness the From the time when I had finished my education and my studies with ifm to today. The conditions are different today, the market is different, but the result is the same: young, motivated ifm colleagues with orange blood.

Martin Buck (Chairman of the Management Board), ifm group of companies, Germany

only consider the facts, the following statement is guite true: Never before on our own, this would, on the one in its company history, the ifm group has acquired as many shares in other companies as in recent times, often even taking over entire companies. we could profit from them. So what This is why it is no surprise that this approach seems unusual to us at ifm, who are used to consistency and continuity, and that it leads to divid- the market early enough to generate ed opinions. Especially if we consider that, we as the Management, do not Only when the last piece is where it miss out on any opportunity to point out the strains caused by the pen- that will please the customer. sion scheme and to take precautions against a possible economic down- The good news is that we think the turn. Why do we make so many acguisitions at a time when we would actually need to save money?

foundation, the market of ifm's efforts, but also patience and conactivities has never before faced so many changes that are as fundemental as those we expect for the This is nothing new for ifm: just coming years. Our usual approach to acquire new competences from time to time, as we did with i-for-T or pmdtechnologies, is not enough to meet these changes. These acguisitions always concerned new technologies we used in products to extend our existing business model of selling sensors as components.

business model and even adding by not only selling components but our expectations by far. also software, complete solutions and services. We want to open up a completely new market and additional sales opportunities for us to continue to "grow successfully in security". However, the new business model will only work if all necessary components are available to us and if

ifm on a shopping spree? If we they are all compatible. If we would develop these individual components hand, take very long, and, on the other hand, we would need to spend money for a very long time before we are acquiring is not only many years of expertise, but, most importantly, time; so that we will be on sales. Think of it as a jigsaw puzzle: belongs, you will have a full picture

jigsaw puzzle will be complete with this year's acquisitions. However, we will still need to put it together. This is certainly not an easy task, and it The answer is simple: Since ifm's will take several years and great fidence.

think of the controllers for mobile machines, the pressure sensors, the diagnostic sensors or, very recently, pmdtechnologies, only to mention a few examples. Judging from our experience, we know that it will always take longer than we think in the beginning to sell new technologies in a profitable way. However, our experience also teaches us that it is worth But at present we are expanding our the effort because, in most cases, we have been able to generate longcompletely new business models – term sales that have been exceeding



Essen is on Lake Constance? In ifm's logistics centre, the skyline of Essen and the Lake Constance region are united on a canvas that is 40 m wide – close to you! This canvas is used to cover a part of the shelving cube for safety reasons.

red**dot**

WEINGARTEN

Unternehmer Martin Buck ist neuer IHK-Präsident e IHK-Vollversammlung wählt bei der konstituierenden Sitzung ein neues Präsidiu

:2018

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20 September:	23 October:
fm opens a new location in	A second production build-
Norocco.	ing is inaugurated in Sibiu,
	Romania.
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Excellent design: design awards for the DV signal lamp and the DP display.





On 18 July, Martin Buck, Chairman of the Board of the ifm group of companies, has been elected unanimously as president of the Lake Constance Upper Swabia Chamber of Commerce and Industry.

The new image brochure, ifm pressions, conveys a strong impression of ifm.





ifm's Central Management Directors Ludger Tismer and Andreas Möse as well as the French Management and several African partners attend the official opening ceremony of ifm Morocco.



Martin Buck (on the left), Chairman of the Board. and Benno Kathan, Member of the Board of the ifm group, inaugurate the new production building in Sibiu.

2014-2018



943 MILLION EUR IN SALES



7,000 **EMPLOYEES**



880 PATENTS



COMPANIES

.....



Product milestones





Ultrasonic sensors



IO-Link components



Your perfect size is M.

Baumspenden-Urkunde

UN@

SUSTAINABILITY REPORT

ESSEN

E10330

A clear view of the data forest. January 2019

statmath GmbH becomes part of ifm. Since early 2019, ifm has been collaborating with statmath - a company that specialises in data science, i.e. systematic extraction of knowledge from data. It was founded in 2002 as a start-up by Christian Friedrich and Dr Alexander Hoffmann at the University of Siegen. "We at statmath and together with ifm are able to identify the market demands, refine sensor data and turn it into scalable solutions for industry by means of Al," says Hoffmann.

Three years later, in 2022, statmath GmbH becomes a wholly owned subsidiary of ifm solutions. "The experience we have gained from numerous customer projects in using data analysis and the development of algorithms to generate 'smart data' from 'big data' completes our software solutions in the areas of Industry 4.0, the Internet of Things and digitalisation. This will give our key product moneo a further boost," says Michael Schimanowski, Managing Director Products at ifm solutions gmbh. "We are very much looking forward to the continued support of statmath GmbH so that we can continue to contribute innovative software modules and intelligent solutions to our product portfolio," says Joachim Theusner, Managing Director Technology at ifm solutions gmbh.







Christoph von Rosenberg, ifm group of companies, Germany

One billion in group sales for again. At the end of the year, the and associated mechanical engineerthe 50th anniversary. In 2019, overall growth is 5.5 % higher than ifm celebrates its 50th anniversary in the previous year. The markets in the sustained profitability of our and breaks the one billion turno- North and South America and China ver mark for the first time. Despite made a particular contribution to active customers also reached a new global trade conflicts, the special- this. Thanks to good growth in the ist for innovative automation and food and mobile machinery sectors, employees has also risen further and digitalisation technology is able to we were able to cushion the sharp significantly increase group sales downturn in the global automotive

PRODUCT HIGHLIGHTS 2019





an ifm company

Michael Schuster, ifm group of companies, Germany

Evolution of ifm solutions gmbh. The companies GIB and OOSIT have been part of the ifm Group since 2016. Together with other software specialists from ifm, the trolled and monitored production, Siegen-based company is working and with shop-floor integration, or towards its vision of becoming the leading provider of comprehensive digitalisation solutions, from sensors system has been implemented. to ERP. Decades of experience in the SAP environment and in-depth knowledge of supply chain process- revolution. By joining forces, we es are combined with bundled ex- bring OT and IT together and thus pertise from the system house busi- make our customers fit for the funess and infrastructure connection. ture. ifm has created a think tank ifm's sensor expertise rounds off the for Industry 4.0 solutions with the portfolio and paves the way for fu-Siegen SUMMIT, which is unique in ture-oriented Industry 4.0 solutions Germany. that connect the business process level with the production level.

With the moneo suite, a convenient platform has been created that offers every manufacturing company decisive added value in sensor-con-SFI for short, bidirectional communication between the sensor and ERP

nosit:

This Industry 4.0 symbiosis is a real

ecolink M12 with connector

interference protection.

ing industry. This result demonstrates business model. The total number of record level: 174,000. The number of now totals more than 7,000.





Tight connection: Even with demanding requirements in hygienic and wet areas, the M12 connectors of the ecolink series ensure permanently reliable connection of sensors and actuators thanks to a mechanical end stop, vibration protection and EMC

Michael Paintner,

ifm group of companies, Germany

Virtual vision. Virtual Retail GmbH ware solutions for packaging and (VR) develops software and algorithms in the field of artificial intelli- timisation of 3D point clouds based gence and machine vision. The range on machine learning and AI. of solutions includes applications for dynamic scenes as well as software modules for photoelectric detection and recognition of objects. In future, photos of a person, for example. the current ten-strong VR team will support us with application solutions ers can use this data to offer their in photoelectric measurement technology and for product and integration solutions relating to Industry 4.0. fitting products – this will be demon-In initial projects, VR is collaborating with colleagues from the ifm group of companies and pmdtechnologies ag on camera-based real-time soft-

assembly processes and on the op-

mobile scanning and measuring of A mobile body scanning technology from VR calculates all important body measurements from just two Retailers and clothing manufacturcustomers more precise fit advice or produce customised and precisely strated in 2022 with the sizeez app, a joint project with ifm Group-UX.



You can find out more on page 177 and under sizeez – shopping the easy way.



PRODUCT HIGHLIGHTS 2020





ifm mate is a worker assistance system to support manual activities.



io-key

Measuring no matter where and no wiring needed:

Often, centralised monitoring of sensor data of small or decentralised applications is rather difficult and expensive. The solution: the io-key. It simply transmits data from connected sensors via mobile network to a secure cloud where the user can access it from no matter where. Long, expensive and error-prone cable runs are a matter of the past.

: 2019

0	
•	Stefan von der Bey is ap-
•	pointed Central Managing
•	Director Marketing of ifm
•	electronic gmbh and Stefan
•	Schneider is appointed
•	Central Managing Director
•	Finance of ifm group
•	services gmbh.
•	

ifm mate



Biying Zhang, ifm group of companies, Shanghai

Further expansion of inventories in China. Due to the growth in orders and increased space requirements, the ifm China warehouse has been relocated. This is the warehouse's third relocation since it was founded in 2005 and testifies to the success of its business activities. The new warehouse owns an area of 2000 m², which is 1.8 times the volume of the current one. During the Covid-19 outbreak, ifm China has optimised warehousing, transport and payment processes to speed up deliveries and provide customers with an even better service.



Rebekka Neubauer. ifm group of companies, Germany

Sustainability award. In addition to ISO 14001, ifm's environmental management system is also validated in accordance with EMAS (Eco-Management and Audit Scheme). Validation is checked in annual monitoring audits and must be renewed every three years. In the course of this, ifm has also drawn up an environmental statement in which, among other things, environmental indicators and environmental targets are described. This includes, for example, the changeover to green electricity in 2020, which will save around 10,000 tonnes of CO₂ per year at ifm's German sites. An internal environmental management system has been in place since 2000.

PRODUCT HIGHLIGHTS 2020



First ifm sustainability report. From now on, ifm will provide annual information on the current status, objectives and measures relating to sustainability in accordance with the internationally recognised standards of the Global Reporting Initiative (GRI). And it shows: Social cooperation, economic strength and environmental protection are not a contradiction for ifm. The sustainability report is published every three years and the data is updated once a year – on a voluntary basis.





Sustainability - ifm

ifm moneo



Forward-looking partnerships, November 2022

AD/ MOS

Like-minded partners. ifm be- vation for us as a group of companies comes a member of the ADAMOS network (ADAptive Manufacturing of global market leaders in mechan- CEO of the ifm group. ical and plant engineering for the future topics of Industry 4.0 and IIoT: "Supporting digitalisation in mechanical engineering and advancing the topics of interoperability, plug & play and simplicity provide a strong moti-



Added value for a strong, digitalised industry | ADAMOS

5GACIA

ifm as part of the 5G ACIA. The Alliance for Connected Industries and Automation was founded by the German Electrical and Electronic Manufacturers' Association at the beginning of 2018. With their help, 5G is to be established in production and made industrially viable. The integration of new frequencies in the approx. 30 GHz range enables a significantly higher data transfer

rate and real-time communication. Companies will be able to buy own frequency ranges and can establish own private or partially private networks.



5G-ACIA - 5G Alliance for Connected Industries and Automation

moneo family (2020) consisting of software,

Jan-Remi Fromentin, ifm group of companies, Germany

moneo: the IIoT platform for industry and production. As an IIoT platform, ifm moneo combines the level of operation technology with the level of information technology. The sensor data generated in the production plants can be read and processed easily and used as a basis for sustainable corporate decisions.

moneo has a modular structure and consists of a basic software as well as applications, e.g. for condition monitoring or for IO-Link sensor parameter setting. This makes it possible to put together a tailor-made software package for every individual requirement.

For over 50 years, we have been supporting our customers as a leading supplier of automation solutions. We have now combined our experience in sensor technology with the expert knowledge of our software subsidiaries – this is moneo, "simply made for you". Since its launch, moneo has been well received by thousands of users and has already generated sales of several million euros



moneo: the IIoT platform for industry and production

Bernd Hausler,

ifm group of companies, Germany

ifm is "Factory of the Year 2020". The concept of the digital factory shows the potential in connecting shop floor and top floor. It allows us and our customers to experience the entire range of services we offer at ifm. Especially in current times, it is of highest importance to give our employees and customers an orientation as to how we can grow successfully in security, also in the future.

In 2020, ifm was named the winner in the category "Location Safeguarding by Digitalisation". The appreciation for winning this award is the reward for my team and myself, for the top achievements during the past years. The award shows that we are on a good way and up to date, thus the Digital Factory will secure our future success for us and our customers. ifm and all other participants also benefit from the professional feedback from the Kearney audit team. The event provides an ideal forum for an exchange of ideas between experts.



(from left to right) Helena Roggenkamp, Bernd Hausler, Holger Zweifel and Sonja Reiner at the official award ceremony was held later on 21 June 2021 due to the coronavirus.

FACTORY **OF THE YEAR**

SW Veranstaltungen KEARNEY

: 2020

Andreas Thürer is appointed Central Managing Director Technology of ifm group services gmbh.



vision sensor technology in industrial manufacturing

Hans Kornmeier, ifm group of companies, Germany

Rovema's application patent has prior art that may not have been been successfully overturned. ifm has prevailed and won the years- tion procedure. long patent dispute.

ternational manufacturer of packaging machines Rovema GmbH applied tem to prevent metal shavings from entering the products to be filled. However, anyone familiar with the ifm octavis vibration diagnostic system will be surprised why no VSE100 sensor was used here.

principle know all the prior art, es- January. The revocation of the patent pecially as regards product launches thus became legally binding and ifm or company information, patent law can once again supply all packaging provides that the public can file an objection after the patent has been granted. In this way, the patent office can be made aware of further

taken into account in the examina-

After the Rovema patent was grant-Background: In 2011, the leading in- ed on 21 December 2015, ifm filed an objection in due time within nine months, based on an advertising brofor a patent. The patent concerned chure from ifm and a Japanese docuthe use of a vibration diagnostic sys- ment that showed a similar solution before 2011. The publication date of the ifm promotional leaflet had to be affirmed under oath. In November 2018, the patent was revoked after a seven-hour hearing at first instance. This decision was confirmed in second instance by a Board of Appeal Since the patent office cannot in of the European Patent Office on 26 machine manufacturers without any patent restrictions.





Ines Mehler, ifm group of companies, Germany

New moving image format. With "Impulse", ifm launches its own magazine programme that is now an integral part of the website. The video editorial team regularly creates and implements new broadcast schedules to inform interested parties about new products and news from the ifm group of companies as well as topics from the digitalisation and automation industry, independently of face-to-face events. The modern studio allows customers to join in live, for example. Filming takes place in a virtual studio based on the Unreal Engine. This is a special framework for console and computer games from Epic Games. We work in a highly complex automated studio unit with a live 3D environment. The cameras and the people in front of them move within this virtual world, so to speak.



Michael Marhofer (Chairman of the Board). ifm group of companies, Germany

ic. On 25 January 2020, I sent out the first internal communication in connection with the pandemic. The to keep the coronavirus away from situation would worsen on a daily basis and lead to an exceptional situation - both privately and pro- why this is so important, we have fessionally. For months we could

> GERMAN DESIGN AWARD INER reddot winner 2021





only drive by sight because nobody knew what tomorrow would bring. Business trips, meetings, trade fairs etc. were cancelled or rescheduled: Everyday working life has changed completely from one day to the next, inevitably boosting digitalisation even further. Since then, social distancing rules, mask-wearing and sanitiser dislife. Moreover, many workplaces are relocated to the employees' homes.

Despite it all, we at ifm still have a proportion. We will consider both the clear goal in mind: The safety of our employees and their workplaces is ifm during the corona pandem- our top priority. Together with the measures implemented in the ifm group of companies this will help us ifm and maintain our business operations. And if you are asking yourself another good reason besides the

preservation of jobs. There are probably few food and pharmaceutical factories, fresh water and wastewater treatment plants worldwide where none of our products are installed in the production machines. All of these machines require spare parts to maintain operation.

pensers have been part of everyday So we are also part of the solution in this crisis, even if the situation is putting us all to the test. Any measures will be taken with a sense of economic existence of the company and its employees and the health of our staff. "ifm - that is all of us" (ifm philosophy) characterises this time in particular and is particularly rewarding: Despite the coronavirus crisis, delivery capacity has remained exceptionally high to date.

> Martin Schmidt, ifm group of companies, Germany

Awarded three times: the manufactured component forms SM6020. The magnetic-inductive the interface and attracts attention flow sensor wins the German Design due to its contrast. The strong colour Award, Red Dot Award and the iF contrast directs the user's attention DESIGN AWARD - the world's three to the process data and the intermost prestigious awards for product active elements (buttons and LEDs). design. This makes me very proud - The use of robust, high-quality maespecially as it was the first project terials underlines the reliability and that I was able to accompany in my performance of the product – and at previous ifm career as a designer. For the same time gives the SM6020 its me, the awards are proof of a great modern, simple aesthetics. team performance.

In order to make good design measurable, the jury bases its evaluation on the criteria of idea, form, function, differentiation and effect. The flow sensor is particularly impressive due to its compact, user-friendly design. High accuracy, precision and reduced set-up costs - the black multi-component injection moulded part embodies all of this. This precisely

Click here for more details about the product.







ifm group of companies, Germany and pmd group, Siegen

Smart demonstration factory ups in the region. This collaboration about how we could support the re- MIT site and the Smart Demonstragion in attracting skilled workers in tion Factory Siegen (SDFS) and thus the areas of IT, Industry 4.0 and sen- also to direct cooperation between sor technology. To this end, we have ifm and the SDFS. decided to seek cooperation with the University of Siegen and jointly develop an entrepreneurship model to support IT and Industry 4.0 start-



Benno Kathan, member of the ifm Board of Directors, with representatives of the ctrlX World partners WAGO and NOKIA, and with Steffen Winkler (CSO Business Unit Automation & Electrification Solutions) and Hans Michael Krause (Director Product Management ctrlX World) from Bosch Rexroth.

Siegen. As Siegen is not a tradition- ultimately led to the founding of the al IT location, we thought early on Start-up Accelerator at the ifm SUM-



Benno Kathan,

ifm group of companies, Germany

Bosch Rexroth becomes a new cooperation partner of ifm. At the beginning of 2021, Bosch Rexroth and ifm identified joint potential and possible synergies, resulting in a partnership that was officially announced in September 2021 at a press conference in Bosch Rexroth's has been to open up the ctrlX AUnew Customer and Innovation Cen- TOMATION platform for the globally tre.

concept to the previous proprietary automation systems on the market. ware and software from ifm are used It was presented by Bosch Rexroth at the end of 2019. In regard to the ecosystem around the new ctrlX

controllers, the emphasis has been placed on radical openness, simplicity and maximum flexibility. Bosch Rexroth has taken this approach to successfully tackle the increasingly complex tasks in the world of automation. The aim of the partnership standardised communication system IO-Link, thereby creating additional ctrlX AUTOMATION is an alternative benefits for both sides and in particular for end customers. Both hardin this context. The ctrlX World partners include ifm, WAGO and Nokia.

Stefan von der Bey, ifm group of companies, Germany

Automation24 – One stop. Smart "After these milestones were jointly **shop.** Around ten years ago, I was asked by Michael Marhofer to realthe market. Based on this idea, we developed a business model and pany in May 2011.

Fortunately, we were allowed to start on a 'greenfield' site and used the initial time to set up a location with the appropriate equipment and IT infrastructure and to find suitable systems and service providers for the webshop and ERP. At the beginning, there were no suppliers including the corresponding product portfolio, no warehouse with connected logistics processes, no marketing concept and no online shop with corresponding domains.

Automation24

developed and finalised in the first six months, we launched our online ise his idea of establishing an online shop automation24.com in Germany shop for automation technology on with 600 products from seven sup- fun. Katharina Messerschmidt and pliers. Ten years after the company was founded, we now have well looked for a memorable company over 100.000 satisfied customers in name. This would form the basis for twelve country-specific webshops in the subsequent founding of the com- eight languages who can purchase more than 6,000 products from over 40 top suppliers such as ifm, Siemens, Endress+Hauser, Wieland and Rittal from us. We are very grateful for the faith and support from the shareholders that has been shown to us and the company in all phases of development. The trust placed in us and the associated creative freedom have always been the foundation and driver for a high level of commit-

ment, goal achievement and further development. Working and building a great team with dedicated and loyal people has always been a lot of Thorsten Schulze confirm this.



automation24.com



From left to right: Mr Stefan von der Bey with the Automation24 management team consisting of Thorsten Schulze and Katharina Messerschmidt.

Andreas Thürer, ifm group of companies, Germany

Sustainability at ifm. "A major topic in 2020 was climate protecand the 2030 Climate Protection ment, a regulatory framework has been adopted that will point the ture." (Michael Marhofer and Martin Buck in the preface to the Update of the Sustainability Report 2020). They further explain, These developments are further confirmation that we porate philosophy, which we have lived by since 1990: 'ifm demands decisions and conduct.' We would like to continue to take this guiding 2030. principle to heart and expand it in

value creation to be an essential prerequisite of our business success. tion. With the European Green Deal After all, durable and high-guality products from ifm not only contrib-Programme of the German Govern- ute towards the conservation of re- Sustainability Managers since 2020. sources, but also increase customer satisfaction. For us, climate-friendly way towards a climate-neutral fu- action begins on our own doorstep and is not limited to energy efficiency or the use of renewable energy sources. The construction of our first 'green factory' in Romania marks a milestone in eco-friendly and cliare on the right track with our cor- mate-neutral manufacturing, and serves as a blueprint for future construction projects, bringing us one and promotes ecologically conscious step closer to our goal of becoming climate-neutral in our operations by

the future. We consider sustainable In addition. Steffen Fischer, Social



Sustainability Manager, Managing Director Human Resources, member of the central Group Management Board, and I have been appointed One of the most important pieces of advice though regarding sustainability was probably that we should always focus on the best economic overall solution in terms of sustainability from the outset. This means neither pursuing a maximum principle nor only doing what is absolutely (legally) necessary. Rather, the key here is to act early and with foresight.





Reports, certificates and portals

Dr Dirk Kristes. ifm group of companies, Germany

Logical logistics development. the commissioning of the new logis-In response to the strong growth and increased production volumes, around 20 % of the sensors we proifm creates 130 additional office workplaces and more warehouse capacity in Tettnang. The logistics centre planned for this is due to start operations in spring 2023, and the symbolic ground-breaking ceremony took place on 11 August 2021. The new building has space for 4,400 pallets stored in automated mo- a day to the central warehouse in bile racking systems. This modern logistics concept offers high access speeds and makes optimum use of the same time fulfil the wishes of nuthe available space. The focus is on the direct supply of major customers delivery at short notice. and represents an ideal addition to the central warehouse in Essen. With

tics centre, we will be able to send duce at our Lake Constance locations directly to customers all over the world without any detours via our existing distribution warehouse in Essen. This makes a significant contribution to improving ifm's carbon footprint, as it eliminates the need to transport around 10,000 sensors Essen. Ultimately, this will enable us to reduce our CO₂ emissions and at merous customers for highly flexible





ifm headquarters, December 2021

New company headquarters. The ifm group of companies will build its future headquarters in the new office quarter ESSEN EINS, around 500 metres from the Glückaufhaus. The contracts have been signed and project planning is in full swing.

in Friedrichstraße, Essen since 2009. "The Glückaufhaus is bursting at the seams, we simply don't have enough space for the entire staff here in Es- headquarters in the heart of the city sen," says Michael Marhofer, Chairman and co-CEO of the ifm group of companies.

"This can be put down to our ongo-

ing success which is set to continue "In order to meet the increasing in the future on the basis of a global market. And it goes without saving rate headquarters will be built in that this success entails an equivalent the next few years on a part of the rise in the number of employees. In 30,000 sqm site of the former RWE order to be able to successfully car- headquarters on the corner of Huysry out this large project, we have senallee and Baedekerstraße, which, bundled our competences from past ifm's headquarters have been based construction projects in Essen and Siegen and set up a dedicated project team. We are already looking for- important advantage of the new loward to our new modern company of Essen, where we will be able to continue our positive business trend on a long-term basis," says Michael Marhofer.

demand for space, modern corpounlike the Glückaufhaus, will offer us a long-term perspective," this is how Christoph von Rosenberg explains an cation. The new ifm company headguarters will be conveniently located near the main railway station and easy to reach by public transport.

Martin Buck (Chairman of the Management Board), ifm group of companies, Germany

Foundation of ifm group services 2022, this has been the sixth pillar in **gmbh.** On behalf of ifm stiftung & co. kg, the newly founded ifm group services gmbh concentrates on the group service functions with a view gmbh and ifm solutions gmbh. Strong to the internal customer. To this growth requires correspondingly end, around 670 employees from strong Group service functions. These the areas of finance, controlling, IT, play a very special role, for example service, human resources, technical compliance, pre-development and production resources have moved itisation of products. from ifm electronic gmbh to the new ifm group services gmbh, where they form a powerful unit. Since January

the organisation alongside ifm electronic ambh, ifm position ambh, ifm process gmbh, ifm network & control for future topics such as self-service functions via the internet and the dig-





: 2021

28 January 2021 ifm Norway: Foundation of the new subsidiary ifm electronic AS



Björn Ostertag, ifm group of companies. Singapore

ifm Singapore is growing. The growth of the ifm group of companies can be felt in practically all markets worldwide. At the Singapore site, which is very important for the Asian region, ifm has inaugurated a new company building that doubles the space previously available. From a small company with ten employees at the beginning, ifm electronic Asia has developed over the past eleven years into a medium-sized company with almost 100 employees working in two shifts. This led to all possibilities for space utilisation being exhausted in 2018. The ifm efector production lines have been outsourced and the local research and development (R&D) team has grown steadily, as has the product family. At almost 10,000 m², the site of the new plant is more than twice as large as the old one. On 22 June 2022, the grand opening of the new plant of ifm electronic Asia Pte. Ltd. took place at 8 Tuas Avenue.

Alex Magdoiu,

ifm group of companies, Romania

Building a green factory. On 7 April 2022, ifm Romania organised a festive event to announce the start of work on a new ifm factory and sales headquarters in Sibiu. As one of the world's leading manufacturers of industrial sensors, ifm is currently one of the largest employers in Sibiu County with over 650 employees. ifm is striving to be the first plant in technologies. the world to receive the gold medal according to the international DGNB system. Various aspects such as eco-

logical, economic and socio-cultural factors are assessed – both during construction of the building and its subsequent use. The entire energy system will be optimised to achieve this level of certification. This also includes the use of photovoltaic modules and heat pumps, as well as the latest generation of materials and



Digital change, June 2022

From hardware company to digital company. "You have to change yourself in order to convince other people," says Michael Marhofer (Chairman of the Management Board) about the path towards digitalisation using the example of the ifm Group. Michael Marhofer explains what it means to digitalise a family and industrial company, to increasingly rely on software in addition to the original products, not to jeopardise the core business, to deal with change and much more at the Industry Future Conference. The main topic on 2 June 2022 was "Performance AND sustainability entrepreneurs and thought leaders are shaping the transition to a climate-neutral industrial society".



Sustainable Building Council), which, together with the Federal Ministry of Transport and Digital Infrastructure, awards sustainability certifications for new buildings for various uses. The paradigms of the DNGB system are a life

Excerpts from Michael Marhofer's letter to all ifm employees on the subject of the war in Ukraine:

Since 24 February 2022, a war against Ukraine has been waged by Russia. Many of you will know that we have sites in both Russia and Ukraine. Ten employees work for ifm in Ukraine and 28 in Russia. We have closed our location in Ukraine since 24 February 2022. Families who wanted to be evacuated have now been taken out of the coun- salary, contrary to legal requirements. try. Nevertheless, the majority of Since 28 February 2022, we have male employees are still in Ukraine, mostly in Kiev, and are or have been drafted into the Ukrainian army as used as spare parts to keep Russian employees are considered to be on leave and will of course continue to be paid 100 % by ifm. We have control this.

also practically closed our location in Russia since 28 February 2022. In Moscow, some employees are still working, as they are needed to answer questions and make sure that we meet our financial obligations towards the employees. As in Ukraine, all other employees are on leave and continue to receive 100 % of their stopped all deliveries to Russia, as we do not want our products to be part of the general mobilisation. Our industry machines operational or, worse still, to be installed in military equipment without us being able to

Some ifm employees immediately set up various aid campaigns: From handbag donation campaigns to drugstore items and food, many things are collected and donated to colleagues in need. Motorised convoys are set up for border crossings and people are temporarily housed and fed, for example with the help of a mobile field kitchen. Thanks to Kamila Maskova's, Regional Sales Management, initiative, a considerable amount of donations was collected and handed over to local aid projects. Our colleagues are courageous and they are prepared to make personal sacrifices for this, even though they themselves have done nothing

wrong and, above all, even though they themselves are suffering under a state that increasingly resembles a dictatorship. I am very proud of my colleagues in both Ukraine and Russia and they can all rest assured that we will not let them down and will do everything in our power to continue to support them.



Read the news on the website.





Image processing goes fashion, June 2022

sizeez. Within a very short space of Virtual Retail software developers time, the UX team from ifm Product Design and Virtual Retail GmbH developed an app that can be used to take body measurements digitally. The primary target group is fashion mail order companies so that they can give their customers reliable and suitable recommendations. But the solution is also ideally suited for other fields in online business returned. This in turn saves several where precise body measurements are required. Among other things, a 3D camera sensor from pmdtech- packaging. nologies and the experience of the

are used.

With sizeez – a body scanning app that brings intelligent image processing to the fashion industry – online shopping is now becoming more sustainable: Because if the right size can be found straight away, fewer items need to be dispatched or tonnes of CO₂, also during production, storage, order picking and

Exceptional commitment, July 2022

ifm China remains able to deliver despite coronavirus lockdown. On 28 March, the Shanghai Pudong New Area was sealed off, which made customs clearance and the transport of all imported goods extremely difficult. In addition, the warehouses were closed so that goods could neither be accepted nor delivered. We had to act in order to uphold our guiding principle "ifm – close to you". The contact and close exchange between the logistics centre and the head office, import agents and government authorities was particularly important. This ultimately led to an analysis of which logistics concept was still feasible in the context of the epidemic situation - a complex undertaking. Huhang Wang was "the last man standing" in closed-loop management: He manually processed the delivery of urgent orders and was unable to leave the warehouse until the end of the lockdown due to the strict conditions. An employee of an import partner supported him temporarily and provided catering and accommodation (a tent). This determination is remarkable. All in all, the Chinese ifm team did an excellent job in overcoming the challenges - this is not something to be taken for granted. In retrospect, it can be said that despite the disrupted supply chain, there was no backlog in deliveries. On the contrary, sales actually increased by 5 % despite these challenging times and circumstances.







PRODUCT HIGHLIGHTS 2022



LW radar level sensor

measures levels of liquids and viscous media in tanks with a height of up to ten metres precisely and without blind areas.

Field-compatible IP67 power supply unit

with IO-Link and electronic fuses.



: 2022

0	ifm moneo cracks the fourth turnover million.
•	o o
	ifm branch and consistent cessation of all business with Russia on moral grounds after 70 days of war against

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Now live: Fit for Service August 2022

"A global training programme has been developed to support our experienced customer service employees and ensure that new colleagues in different regions receive the same level of training," says Kevin Barr (Head of Customer Service ifm USA). This is because ifm strives to achieve or fulfil world class status in all areas of the company. "We recruit and train a large number of new colleagues, some with years of experience, others fresh from university, all with their own strengths and needs. Fit for Service offers a wide range of topics to ensure that all service basics are covered during the induction programme. It also emphasises the extent of our individual influence while we are part of a global whole," he continues. There are both selfstudy modules and live training courses – the new programmes are now available in nine languages.







Martin Buck (Chairman of the Management Board), ifm group of companies, Germany

We don't let others drive us crazy. significantly improve the collabora-We stay crazy. I believe that AI is a great technology that is gradually finding its way into working life - es- We should be crazy enough to try out pecially as an assistance function - or the possible and the impossible, but into our products. I think AI will take the interface between man and machine in particular to a new level and

tion that already takes place today or help to analyse large amounts of data. not let the hype drive us crazy.



The impulse paper "Artificial Intelligence in Industry", to which Steffen Fischer contributed, is a German publication of the Working Group on Labour, Education and Training (Plattform Industrie 4.0) and aims to provide initial guidance on AI in industry. The QR code will take you there:

Sander Roosien, Research and Development Manager at Koedood

As an innovative company, we have recognised the potential of inland navigation to become an even greener mode of transport, and we want to do our part with clean propulsion solutions. This is why we like working with ifm as a company that continuously drives the innovative development of its sensor technology forward. ifm really understands our needs and what we want to achieve, and provides us with the necessary automation solutions. Joining forces and combining strengths and competences gets you further. And that is exactly what ifm and Koedood are doing in the case of maritime fuel cell propulsion.





Since mid-May, the Nuremberg-based start-up Sentinum GmbH has been a wholly owned subsidiary of ifm group services. Sentinum develops and sells wireless sensors that are currently mainly used for smart city and smart building applications.



As part of the "EMAS Scope Extension", the environmental management requirements of EMAS and ISO 14001 were implemented at other locations on Lake Constance and in Rosenheim. The recertification of the previous locations (Es- sen, Tettnang-Bechlingen, Wasserburg) that were validated and certified for the first time in 2020, also took place.

Frank Stegherr ifm group of companies, Germany

Open heart surgery: the Bam- is a perfect example of how we want lerstraße project. When I look managed to generate and reflect the very clearly here. Values that are not only carried outwards, but also lived mance for many years to come. internally.

to make physical logistics more effiat ifm, I am very impressed by the cient and thus once again take valdevelopment of the group of com- ues into account. When we set up panies and how the organisation has the warehouse in Essen eight years ago, we did so with great foresight. growth rates. The values "close to The 55 % capacity utilisation at the you", "innovation" and "excellent time speaks for itself. At that time, customer fulfilment" come together we had created enough reserves to offer our customers the usual perfor-

But at some point, even these re-

The expansion of the logistics centre serves are used up, a sign of the ifm from the current 35,000 to 125,000.







Group's success. We have therefore This is a considerable expansion poalready activated backup processes to prevent the warehouse from filling up and coming to a standstill. An expansion is therefore unavoidable and has already been initiated. We will increase the number of pallet unconditional will to not only docbays by 120 % and thus create space for products that flow through the warehouse in large quantities. We will also gradually expand the storage areas from which customer deliveries are picked at high speed

tential of 260 %.

These figures once again demonstrate the forward-looking element of the ifm Group. But also the ument "Excellent Customer Fulfilment" in the company values, but to actively live it.

MAGNA

Tilo Haug, ifm group of companies, Germany

ifm listed with Magna. We have been working on the contractual connection with Magna (a leading global automotive supplier almost 10,000 ifm products - this with 351 production sites and 103 product development, engineering the ifm Group. There is no secret and sales centres in 30 countries) behind this success, but it is a sign for three years now. This has now of the outstanding co-operation been successfully realised with the signatures and another major Austria and Germany and the Global step has been taken to expand our Groups and Commercial Accounts business with Magna. We are very department. pleased about this and are looking forward to future developments.

On 1 September 2023, ifm launched a contract and a product catalogue with Magna Europe containing opens up great potential for us as between the ifm sales companies in



Sebastian Schlicht. Head of Automation at Magna International

The nice thing about ifm is that by developing a project of this dimension, you can realise potential that benefits both sides. Communication is also a key factor in this collaboration; it was on an equal footing from the outset. A simple one: "Attention. I'm still missing this or that feature element in the software here, could you perhaps pass it on to your guys?" is enough – you'll find open ears here and we're grateful for such give and take.

Joy Rahman, ifm Group, Africa, America, Asia and Europe

Caution should be exercised with have also achieved this in China – foresight. Congratulations to Martin Buck and his team! When I was asked by Michael Marhofer and Mar- sales staff were given company cars. tin Buck in 2008 to find a suitable production location in Asia, we came critically by competitors. (Their emup with Singapore. I am convinced that it was the right decision - given One or two assurances helped to rethe ease of doing business, cost of doing business and quality of living reason why we chose Singapore over for employees. Today, patent securi- China in 2008 (although the trend to ty and employee loyalty would also go there was very strong) was due to have to be taken into account. Our the high regulatory hurdles that no ifm employees are proud to be part longer exist today. My advice would of the Orange Family and stay with be not to let fear determine our acthe company for many years. We tions. Good luck!

which is unusual. In 2005, when ifm set up its own branches in China, the This was unusual and was viewed ployees had to take public transport.) tain employees for many years. The



2023

In November, ifm once again receives the "Factory of the • Year" award in the "Outstanding Series Production" category for its site in Sibiu, Romania.

Martin Buck (Chairman of the Management Board), ifm group of companies, Germany

The search for a location is over. combines all the aspects that are im-On 6 December 2023, the invest-portant to us and at the same time ment agreement for the Chinese offers us exactly the flexibility we production site in Suzhou was need to remain capable of acting in signed at Lake Constance. This step a wide variety of scenarios. We can is a significant milestone for the now start preparing the construction entire project team. We are very measures that will be implemented pleased to have found a location for taking the current economic situaour future production in China that tion into account.



Andrzej Durdyn, Wu Hong (Chairman of SIP Administrative Committee) and Martin Buck sign the investment agreement on 6 December 2023.



2019-2023



1,366 MILLION EUR IN SALES



8,750 **EMPLOYEES**



1,170 PATENTS



COMPANIES



Product milestones

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ifm mate



ifm moneo

What happens next is up to us

Our mutual chance of growing successfully in security will remain comprehensible and a constant motivation for all of us. Almost every human progress has started by striving for a utopia.

That is why, like our vision, the chronicle should also conclude with this sentence by David Ben-Gurion:



"Anyone who doesn't believe in miracles is not a realist."





