

TRENDSETTING BY TRADITION

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WE BELIEVE
IN THE RAILWAY SYSTEM.

Johannes Max-Theurer



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WE WANT TO CREATE ADDED VALUE
THROUGH OUR ACTIONS BY IMPROVING
THE INTERACTION BETWEEN PEOPLE,
MACHINES, AND INFRASTRUCTURE.

Johannes Max-Theurer

**FOR THE
MOBILITY OF
THE FUTURE**

The history of Plasser & Theurer is the history of modern track construction and maintenance: the company founded in 1953 has revolutionised this industry. The first machine and the company's exceptional position on the world market are less than ten years apart. However, resting on past successes was never part of the family business' mindset. Plasser & Theurer is future-oriented while remaining committed to a tradition with innovation at its heart. Today, Johannes Max-Theurer, grandson of the company's founder Josef Theurer, is the head of the company and upholds family values. He is the voice of Plasser & Theurer.

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PLASSER & THEURER IS
TRENDSETTING BY TRADITION.

Johannes Max-Theurer



*A conversation with
Johannes Max-Theurer*

Mr. Max-Theurer, where does Plasser & Theurer stand today?

We are experiencing a time of great change. We all have to adapt to that. But some things never change: first and foremost, it is always our ambition to support our customers in their daily work in the best possible way. This has always represented one of Plasser & Theurer's traditional values.

Where does this ambition stem from?

Today, we believe in the railway system more than ever. All of us, our customers and our company, are part of this system and want to contribute to its success. Because the railway is not an outdated mobility concept. On the contrary. It is experiencing a global

renaissance. A development that will not stop in the future. Population growth, the increasing demand for mobility, the urbanisation of living space, climate change, and the possibilities of digitalisation all have a major impact on the future design of railways and railway infrastructure.

Digitalisation is another keyword – which opportunities does it hold?

We are preparing for a new era in track construction and maintenance. Smart apps, online availability, and virtual tools enable easy access to the relevant data on individual machines, fleets, and infrastructure. Our aim is to make it easy to control complex machine technology.

Everyone is talking about carbon neutrality. What is Plasser & Theurer's take on that?

Eco-friendliness and cost efficiency go hand in hand in the long term. Sustainable, resource-saving, and clean solutions in the construction and maintenance of railway infrastructure are our focus. And we are in an excellent position to set groundbreaking standards here.

These are major challenges. How do you react to them and what can your customers count on?

At Plasser & Theurer, we want to enable a railway industry that is ready and able to meet enormous challenges through innova-

tive developments and solutions. That is what we stand for today. That is what we stood for yesterday. And that is what we will stand for tomorrow. That is why we were, are, and will remain fit for the future by tradition. In short: We are a partner our customers can rely on unconditionally.



*Future-proof mobility:
The railway meets all requirements.*

PLASSER & THEURER

End-to-end solutions for the
construction, maintenance, and
monitoring of a precise and durable
railway system.

Plasser & Theurer creates future-proof mobility –
the railway system.

Plasser & Theurer

TRAIN INFORMATION

Time	Number	Train	To
11:18	2159	ACELA EXPRESS	WASHINGTON
11:57	1559	METRO-NORTH	GRAND CENTRAL
12:11	93	REGIONAL	RICHMOND
12:38	172	REGIONAL	BOSTON
12:57	1563	METRO-NORTH	GRAND CENTRAL
1:00	1622	SHORE LINE EAST	OLD SAYBROOK
1:18	2163	ACELA EXPRESS	WASHINGTON
PASSENGERS PLEASE WATCH YOUR BELONGINGS / SECURITY			
WILL REMOVE ANY UNATTENDED BAGS			

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THE COST EFFICIENCY
OF THE RAILWAY SYSTEM –
THAT IS OUR STRONGEST
MOTIVATION.

Johannes Max-Theurer



THE RAILWAY SYSTEM – CONNECTING PEOPLE

Why does Plasser & Theurer exist?

Because people and their goods have to be transported from A to B.

The railway is a proven system and remains fit for the future. All over the world, regions without a traditional culture of railway transport are investing in the construction and expansion of railway lines. Others are evaluating how to improve their existing networks to meet growing challenges. The question is this: how does existing and growing infrastructure cope with that?

With our innovative products and services, we aim to make a lasting contribution to the success of the railway system and to ensure the lasting success of our family-run company.

In the future, passenger and freight railways will be the backbone of the transport system – more than they are today. They form a complex transport system that can be most successful where all subsystems work together perfectly. Plasser & Theurer helps to ensure this and to secure the mobility of the future.

110

PLASSER & THEURER MACHINES
ARE OPERATING IN 110 COUNTRIES



Since 1953, Plasser & Theurer has been committed to the spirit of innovation – for higher working speeds, increased work quality, and with economic advantages for customers and the railway.

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WE HAVE BEEN DRIVING THE DEVELOPMENT OF THE RAILWAY SINCE THE VERY BEGINNING. THIS HAS MADE US PIONEERS SINCE THE DAYS OF MY GRANDFATHER JOSEF THEURER, AND THIS WILL NOT CHANGE.

Johannes Max-Theurer





The hydraulic tamping machine became an international success and was exported to five countries after just a few years.

Plasser & Theurer can look back on a successful past, while continuing to invest in the future.



The need for on-track ballast bed cleaning was recognised early on: in 1963, the first fully hydraulic ballast cleaning machine was put into operation.



Series production began in the mid-1950s in Linz an der Donau, Austria.



Franz Plasser (left) and Josef Theurer (right) revolutionised track maintenance and set standards for railway safety.

WE BELIEVE

that the railway system is the most cost-efficient, green, sustainable, and environmentally friendly transport system in the world.

WE ARE CONVINCED

that this system will help tackle major challenges arising from population growth, global warming, and the need for mobility on a global scale.

WE SEE OURSELVES

as part of the railway system. That is why we want to contribute to its success.



LOOKING AHEAD

PART OF A FORWARD-LOOKING SYSTEM

Ongoing collaboration with railway operators, railway contractors, railway consultants, universities, and research centres plays an important role for Plasser & Theurer. On this basis, machines and services can be developed that meet the actual requirements placed on the railway system.

Plasser & Theurer regards its customers and suppliers as partners. Our customers are railway companies (high-speed transport and freight transport operators, urban transport authorities ...) and contractors that deploy our machines. We serve a consistent group of customers with different requirements, which motivates us to take on new challenges. Success for all is possible through mutual respect and reliability.

We see our customer relations as long-term partnerships and act accordingly. We are convinced that the only way we can meet the high demands of the modern railway system is with the best materials and services. Only through good communication can we successfully fulfil our tasks. Our close contact with our suppliers and customers confirms that we are on the right track.



The railway is a cost-efficient, eco-friendly, and comfortable means of transport. Plasser & Theurer is fully committed to being a part of this system and continually strives to improve its efficiency.



0.3

MILLIMETRES

TOLERANCES FOR TRACK GEOMETRY
ARE BARELY LARGER THAN THE WIDTH
OF A STRAND OF HAIR

HIGH CAPACITY PRECISION RELIABILITY SUSTAINABILITY

We drive the innovation, eco-friendliness, and cost efficiency of railway infrastructure by focusing on our core values: high capacity, precision, and reliability. As a family business that focuses on long-term strategies, we see sustainability as one of our most important premises for action.


We want to create added value for the system and further improve the interaction between people, machines, and infrastructure. Our goal is to support our customers in meeting their goals and requirements by using state-of-the-art technologies and both time-tested and innovative business and service models.

The first priority for us is always the benefit customers reap from our solutions. In line with the saying “the best is the enemy of the good”, we are not afraid to challenge established solutions in order to improve our products, services, and ourselves.

Like all high-speed trains, Japan's Shinkansen travels on ballasted tracks maintained by Plasser & Theurer technology.

1.3 MILLION

PARTICIPATION IN THE
CONSTRUCTION AND MAINTENANCE
OF MORE THAN
1.3 MILLION KILOMETRES OF TRACK



*The railway is the most environmentally friendly traffic system.
That is why Plasser & Theurer develops machines whose work
is eco-friendly and economical and performed with
maximum efficiency.*

Plasser & Theurer

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ECO-FRIENDLINESS AND
COST EFFICIENCY GO HAND IN HAND
IN THE LONG TERM.

Johannes Max-Theurer



Climate change is a complex phenomenon with far-reaching repercussions. Only by identifying and solving problems will we improve.

All around the world, rising levels of pollution and an ever increasing need for mobility are affecting our environment. Plasser & Theurer believes that eco-friendly railways are the transport system of the future. Thanks to our technical expertise accumulated over some 70 years, we are already in a position to do our part for a future that is both green and mobile.

We aim to create, establish, and uphold lasting values through our actions. It is not enough to comply with applicable laws, regulations, and specifications. Instead, we actively support the idea of eco-friendliness through innovative green technologies.

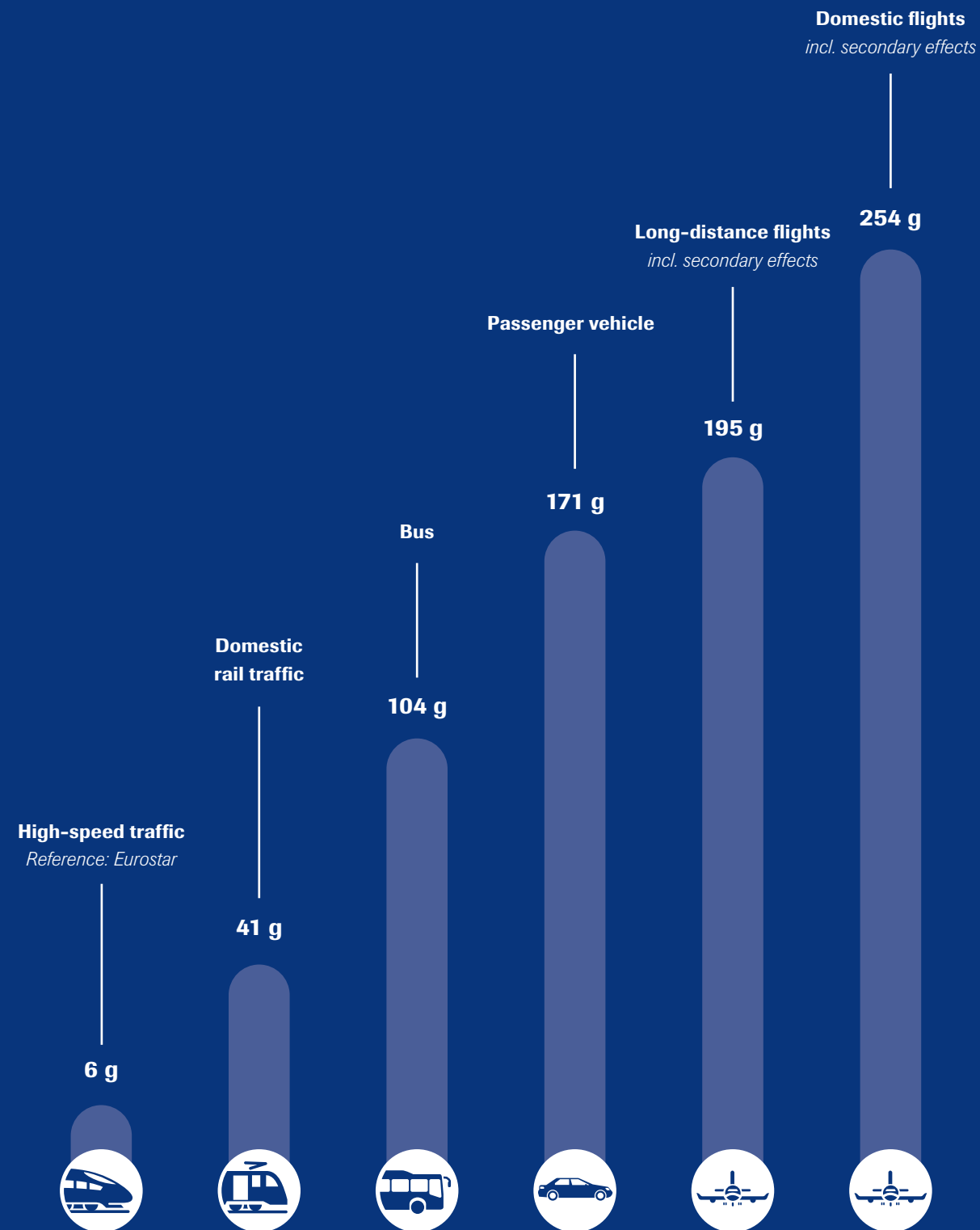
This enables us to offer our customers sustainable machines, which in turn are the best guarantee for a successful future.

We address problems directly and act in line with our values by practising moral courage.



SUSTAINABLE SOLUTIONS

FOR A CLEAN FUTURE



CO₂ EMISSIONS

Average emissions of various modes of transport per passenger.

Source: BEIS/Defra Greenhouse Gas Conversion Factors 2019

PLASSER & THEURER QUALITY CREATES SUSTAINABILITY.

High-quality work extends the intervals
between maintenance operations.
This ensures that resources are used sparingly.



ALTERNATIVE DRIVE SYSTEMS

MOVING TOWARDS A “FOSSIL-FREE MACHINE”

We want to be the global pioneer in the introduction of alternative drive systems (and fuels) for track maintenance machines.



Our global presence enables us to scale developments in alternative drive systems and make them accessible to the public.

We can already supply machines with alternative drive systems for specific regions.



Our aim is to equip 50 % of the machines we produce for Europe with alternative drive systems from 2030 onwards.

VISION

Our development path is leading us towards our vision of the “fossil-free machine”.



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BEHIND EVERY MACHINE,
BEHIND EVERY ACHIEVEMENT,
THERE ARE PEOPLE WHO
STAND UP FOR WHAT THEY DO.
IT IS OUR EMPLOYEES
WHO GIVE A SOUL TO
PLASSER & THEURER.

Johannes Max-Theurer

EMPLOYEES

PLASSER & THEURER AS AN EMPLOYER

**Plasser & Theurer is an Austrian private company.
We believe in Austria as a business location. This is why
we develop and manufacture our machines here.
Last but not least, it is our success that allows us to be
a good employer.**

Plasser & Theurer is synonymous with high-quality machinery. This is not only evident in the short term, when the machines are working reliably after having just gone into operation, but also in the longer term when they are still operating efficiently on the track many decades later.

Highly responsible employees with great technical competence, employed in every department at Plasser & Theurer, are decisive for achieving this high quality.

Plasser & Theurer is regarded by employees in Austria and beyond as an exceptionally good and secure employer with an owner family that is committed to the family business and its values.

5,000

ABOUT
5,000 EMPLOYEES
WORLDWIDE

Only qualified employees work in the production of components and their assembly. These experienced specialists know what matters for machines made by Plasser & Theurer. And to enable them to manufacture machines with the highest precision while meeting deadlines, they are provided with state-of-the-art manufacturing technology.

*Track laying using assembly line technology
creates new connections in India.*

Plasser & Theurer

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IT IS NOT ENOUGH TO BUILD
THE BEST MACHINES.
WE ARE ALSO COMMITTED
TO SERVICING THE BEST MACHINES
IN THE BEST WAY.

Johannes Max-Theurer

MACHINE FLEET INFRASTRUCTURE

Plasser & Theurer is working on continuously improving safety, reliability, and cost efficiency as well as the digitalisation of the solutions offered. With the Machine – Fleet – Infrastructure product and service portfolio, we provide support for our machines throughout their entire life cycle and, with the future in mind, also offer complementary services for railway infrastructure.

For around 70 years, Plasser & Theurer's focus has been on developing, building, and exporting track maintenance machines. The result of our consistent work is an enormous wealth of experience from which we have been able to create technologies, machines, and machine systems that are considered to be the gold standard in many areas of track maintenance. However, we want to contribute far more than simply securing our leading position with regard to technology. Our goal is to increase the benefits for our customers: higher working speed, better quality of work, more environmental friendliness, improved ergonomic design, safety, and utilisation for the crew – in short: a long-term and sustainable way of working.

To that end, we are continuing to expand our product and service portfolio so we can offer you user-friendly and more cost-efficient end-to-end solutions. They are for building, maintaining, and monitoring railway tracks that are precise and long-lasting. We achieve this through the three pillars of our company: Machine – Fleet – Infrastructure.



MACHINE
FLEET
INFRASTRUCTURE

*The Plasser & Theurer portfolio
comprises a complete offer of machines
and machine systems for building and
maintaining railway tracks.*

MORE THAN
17,000
TRACK MAINTENANCE MACHINES WORLDWIDE

MORE THAN
50 %
OF THEM ARE IN OPERATION



MACHINE

MACHINES MADE IN AUSTRIA

MACHINE

Currently, the range of machines offered by Plasser & Theurer covers almost all work to be performed when maintaining, laying, and renewing railway tracks. Only a comprehensive portfolio allows us to precisely react to international market requirements.

In many cases, Technology and Innovation are the first to implement our customers' needs. Engineering Solutions also incorporates them directly into the machine design. Both divisions work closely together at Plasser & Theurer, because their activities essentially determine the quality, safety, and cost efficiency of the machines.

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OUR PRODUCTION LINE
ACTUALLY BEGINS
WHERE THE PRODUCTS
ARE IN OPERATION:
OUT ON THE TRACK.

Johannes Max-Theurer





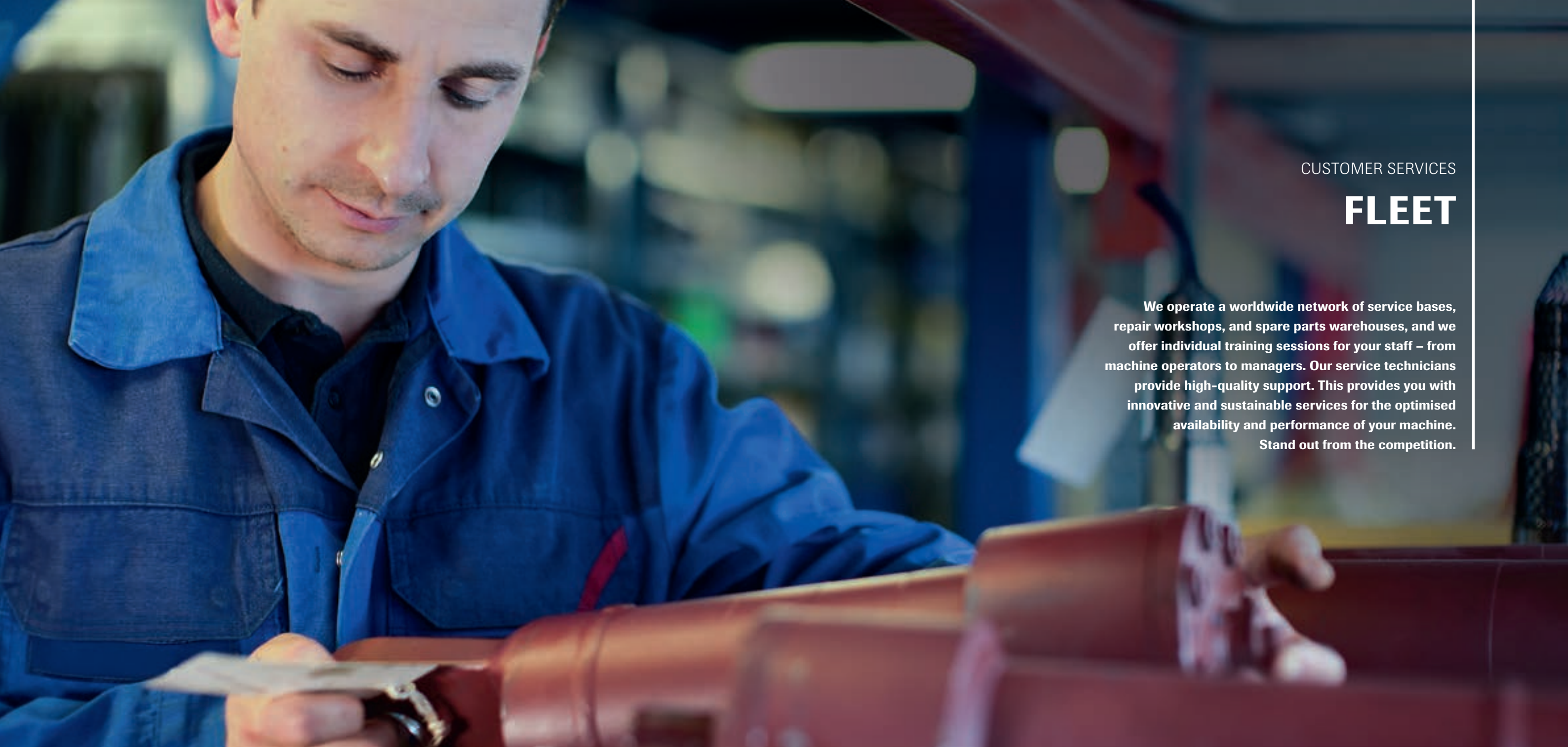
MODULAR
customizing
by Plasser & Theurer

THE MACHINE FOR YOUR NEEDS

It is important to us to respond to the wishes, requirements, and needs of our customers. Therefore, we offer the possibility to configure the machine that will benefit you the most. Here's the perfect example: right now, our high-capacity tamping machines can be built in more than 200 different configurations.

For customers with very specific needs regarding functionality and design, we offer fully customised machines tailored to your use cases. We look forward to providing you with the best possible support with your individual specifications.

INDIVIDUAL
design
by Plasser & Theurer



CUSTOMER SERVICES

FLEET

We operate a worldwide network of service bases, repair workshops, and spare parts warehouses, and we offer individual training sessions for your staff – from machine operators to managers. Our service technicians provide high-quality support. This provides you with innovative and sustainable services for the optimised availability and performance of your machine. Stand out from the competition.

What does it take to ensure the cost efficiency of your Plasser & Theurer machine for as long as possible? Benefit from repair and maintenance services, the great availability of spare and wear parts, easy ordering processes, and fast and reliable deliveries.

Machines made by Plasser & Theurer are currently operating in 110 countries. Many of them have been in operation for decades. That is evidence of the extremely

sound design. Maintenance and repairs are unavoidable given the tough conditions on the track – as is the reliable supply of original spare and wear parts. Plasser & Theurer has a worldwide service network that guarantees these services swiftly and reliably. Highly competent technicians are available for every type of machine. All original spare and wear parts are manufactured in accordance with Plasser & Theurer's high quality require-

ments. More than 100,000 parts are either in stock, ready for dispatch, or can be manufactured and supplied within a short period of time. This service network makes it possible for machines made by Plasser & Theurer to continue operating all over the world reliably and for many years. And this ensures sustainable cost efficiency.



FLEET

The name Plasser & Theurer stands for the mechanisation, industrialisation, and digitalisation of track maintenance all over the world.

INFRASTRUCTURE



INFRASTRUCTURE

*We invest 9 - 11 % of our annual revenue
in research and development.*

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PROGRESSIVE,
PIONEERING, LEADING –
THE FUTURE OF TRACK
CONSTRUCTION IS ALREADY
BEING CREATED TODAY AT
PLASSER & THEURER.

Johannes Max-Theurer



P&T RESEARCH



DIGITAL EXCELLENCE

From mechanisation to digitalisation – the development from manual to fully mechanised working methods in the construction and maintenance of tracks took place within a few years. Today it is one of the most efficient and thus also most cost-efficient processes in modern industry. None of these achievements would have been possible without the pioneering spirit of our founder, Dr. Josef Theurer, and our company's constant focus on innovation. This self-concept gives rise to the responsibility we have for the future: to contribute to the success of the railway system. We will also remain pioneers in the context of digitalisation.

The path towards industry 4.0: Plasser & Theurer's pioneering work is shaping the digitalisation of railways. Today's railway industry is undergoing a fundamental technological transition. There is also the challenge of having our machines deliver even greater output in an even more precise manner with even less time available.

Plasser & Theurer machines can already perform surveys while working, act semi-autonomously, and have artificial intelligence. The aim is to put the data acquired during production and operations to use. The knowledge gained as a result will benefit the 110 markets in which Plasser & Theurer is active and will make business processes

more efficient. Digitalisation adds an additional dimension to the partnership between infrastructure operators, contractors, and supply industries. Availability and transparency are crucial. Planning preventive measures results in an immediate benefit.

By launching digitalisation initiatives, Plasser & Theurer keeps preparing for a new era of track maintenance. The "Internet of Machines" grants operators and decision-makers digital access to our track maintenance machines. Using the latest sensor technology and test users, we develop modern interfaces for communication, evaluation mechanisms, and digital tools for maximum performance.

A man in a blue suit is pointing his right arm towards a screen in the background. He is smiling and looking towards the camera. The background shows a modern office environment with a grid-patterned wall and a screen displaying a technical diagram.

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Finally, I'd like to ask something of you.

**REACH OUT TO US,
HAVE DISCUSSIONS WITH US,
CHALLENGE US.**

It is only when we understand your business and only when our products and solutions benefit it that we make your business more efficient and successful. That is the only way we can contribute to the success of the railway system, together.

JOHANNES MAX-THEURER

IMPRESSUM

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**WE ARE READY FOR THE RAILWAY OF THE FUTURE.
ARE YOU? LET'S TAKE THIS JOURNEY TOGETHER!**

Plasser & Theurer is a global brand that represents innovation, sustainability, quality, and cost efficiency. Thanks to these values, the Austrian manufacturer of track maintenance machines has established itself as a global market leader.

At the same time, Plasser & Theurer has remained a family business, honouring its close connection to the railway and to the essential human need for mobility from the very beginning.

