HAMM - OUR MANUFACTURING PLANT
It is a pleasure for us to accompany you on your way through our factory, the world’s most modern plant for compaction equipment.

We are happy to present our company philosophy to you and to show you the commitment and approach to quality with which the people behind the HAMM brand manufacture our globally sought-after rollers for earth work and asphalt construction; in the same spirit, they design innovations to continually optimise compaction for road-building and earth work.

We hope that you enjoy this exciting tour!
Join us on a tour of our manufacturing plant...
Our rollers for soil and asphalt compaction prove their worth every single day on building sites around the globe. As the world’s leading manufacturer in this segment, we offer the construction industry a broad product spectrum. This ranges from machines for the horticulture sector, landscaping and small road construction all the way to equipment for the construction of racing circuits, motorways, airports and state-of-the-art bridge structures.

The Upper Palatinate region is located in the heart of Europe. It has a long tradition of creativity and richness of ideas - something that is testified by the many globally active local firms that develop and manufacture high-tech products and solutions. One of these is our company, global player and technology leader in the field of compaction technology, HAMM AG. Our rollers for soil and asphalt compaction prove their worth every single day on building sites around the globe. As the world’s leading manufacturer in this segment, we offer the construction industry a broad product spectrum. This ranges from machines for the horticulture sector, landscaping and small road construction all the way to equipment for the construction of racing circuits, motorways, airports and state-of-the-art bridge structures.

HAMM AG IN UPPER PALATINATE

FROM THE HEART OF EUROPE TO ALL OVER THE WORLD
Rubber instead of steel
In 1963, the engineers and developers from Upper Palatinate presented the first all-wheel-steered and all-wheel-driven pneumatic tyre roller to an astonished expert audience. Originally purpose-developed for the construction of the Rhine-Main-Danube Canal, this type of roller is now found all around the world.

Greater dynamic range through oscillation
In the early 1980s, HAMM advanced a new and highly efficient method for dynamic compaction to market readiness in the form of ‘oscillation’. This once again gave a significant boost to the quality and efficiency of compaction.

Networked compaction
HAMM achieved a further milestone at the beginning of the new millennium with the introduction of the HCQ Navigator. Since then, operators of HAMM rollers can monitor their progress in detail already during compaction – an innovation for even greater quality in earthwork and road construction.

The first roller with a diesel engine
More than thirty years after the founding of the company, road construction increased steadily. Already at that time, HAMM was actively advancing the development of construction machinery. For example, in 1911 in the midst of the steam roller era, the company constructed the world’s very first road roller with a diesel engine – a groundbreaking innovation.

All-wheel steering for road construction
By the late 1920s, Franz and Anton HAMM were convinced that paved roads were set to become increasingly important and they thus concentrated their efforts on the production of road rollers. Their next great accomplishment was in 1932: the patenting by HAMM of the first all-wheel-driven and all-wheel-steered tandem roller. This revolutionary worldwide innovation heralded an enduring advancement in road construction, with new rollers that could manoeuvre and compact more precisely than preceding models.

Recognising the signs of the times
In 1878, Franz and Anton HAMM founded the company ‘Maschinenfabrik Gebr. HAMM’. They were early to recognise the coming mechanisation and industrialisation of agriculture and, as pioneers of their time, set out to manufacture mobile machinery for use in agriculture.

Series production in the 1970s: Even then, HAMM rollers were in great demand well beyond the borders of Germany.

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Renowned and appreciated all over the world

Over the course of the 20th century, HAMM developed to become the leading brand for compaction equipment in many countries. In 1999, HAMM became a member of the WIRTGEN GROUP. Since then, we are present on all continents through the tight network of our group of companies - with outstanding success: Today, every fifth roller worldwide is from Tirschenreuth.

A global player from Germany

The WIRTGEN GROUP is an internationally active consortium of German construction equipment manufacturers encompassing the traditional product brands of WIRTGEN, VÖGELE, HAMM, KLEEMANN and BENNINGHOVEN. As a full-liner in road construction, the core business is the manufacturing of machines for the construction and repair of roads, systems for the extraction and processing of useful and recycled materials, as well as for asphalt production. With over 7,500 employees worldwide, the WIRTGEN GROUP generated a consolidated annual turnover of more than 2.5 billion euro in 2016.

Always close by

With over 55 own sales and service companies, alongside more than 150 authorised dealers, HAMM AG is represented around the world - and always close to the customers. Our unique network of service providers stands out for its speed, on-site competence and customer-oriented solutions. These attributes are complemented by expert consultancy from our application specialists.

Rollers for every market

In Tirschenreuth, we build rollers for every market. We also have production facilities in Brazil, China and India. There, our specialists develop rollers for local markets in cooperation with engineers from the respective regions. These machine models are excellently adapted to the varying national requirements and produced directly in the respective countries.
ROLLERS FOR ASPHALT & EARTHWORK

Customised rollers for every need

Our extensive machine programme encompasses tandem rollers, compactors as well as pneumatic tyre rollers. The product portfolio is rounded off by diverse solutions for the optimisation of the compaction processes. These allow HAMM to offer practical, tailor-made solutions for every compaction task in road building and earthwork.

State-of-the-art technology for asphalt and earthwork...
For the future, we strive to construct even more efficient and cost-effective rollers, and thus 10% of the employees at the Tirschenreuth plant are active in the area of research and development. We develop the solutions and systems needed to achieve this in our own company. Thereby, our experience and profound understanding of the processes of compaction serve as a fertile ground in which innovation can flourish. Good examples of this are compaction with oscillation, the Hammtronic machine management system, the HAMM Compaction Quality measurement and documentation system, and the environmentally friendly hybrid drive.

OSCILLATION | Compared to the classic vibration rollers, HAMM oscillation rollers generate far less vibration in the surrounding environment. This form of compaction is not only exceptionally gentle but also extremely cost-effective.

HAMMTRONIC | We like to describe our intelligent control system as the ‘co-pilot’ for the roller operator. This primarily monitors traction, vibration or oscillation and engine speed. Thereby, the system ensures optimum compaction results, tremendous climbing capacity, significantly reduced diesel consumption and the highest levels of safety.

HCQ NAVIGATOR | The HCQ Navigator records and processes all essential parameters during the compaction process. Operators have a real-time view of the compaction progress of their entire roller group, enabling them to compact extremely homogeneously and at the same time minimise the number of required passes.

POWER HYBRID | The innovative drive concept combines a combustion engine suitable for series production with a hydraulic storage system. This future-oriented solution opens the way to considerable fuel savings and low-noise operation.
Uniting functionality and design
As smart as they may be, technical solutions are only successful if users can operate them straightforwardly. At HAMM, we were early to recognise this, which is why we have integrated product designers into the development process since as far back as the 1990s. An intensive dialogue between designers and engineers results in rollers that are not only technically mature but also user-friendly, comfortable, ergonomically optimised and aesthetically appealing.

Impressive design language
These results are reflected in the distinctive design language - the ‘HAMM’ aesthetic is easily identifiable even from afar. In addition, the intelligent design is a guarantor of quality and cost-effectiveness throughout the compaction process.

Design awards for all rollers
Always the trendsetter, in 1996 HAMM was the first construction equipment manufacturer to be honoured with a design award. To date, HAMM has picked up more than 30 other awards for successful design, including the world-renowned Red Dot Design Award and the IF Design Award.

First-class operation
In 2015, for the first time, the design world honoured an operating concept for its outstanding design: our ‘Easy Drive’ system, which received particular commendation for its user-friendliness and ergonomics.
The world’s most advanced roller manufacturing plant

Across more than 350,000 m² in our corporate headquarters of Tirschenreuth, we have the world’s most advanced roller manufacturing plant. The assembly shops, manufacturing facilities and our logistics centre are perfectly interlinked via highly efficient processes.

Continuous process optimisation ensures that we operate at the highest levels in all areas. That is why we are always incorporating new, improved or more cost-effective technologies into our production. In the past 15 years alone, we have invested more than 130 million euro in this area.

Highly efficient and flexible

At our manufacturing plant, we benefit from the state-of-the-art methods of ‘lean production’. Intelligent warehouse systems, smart production planning, ‘just-in-sequence’ component delivery to cycle conveyors and the special design of the production lines all serve to safeguard maximum flexibility. This enables us to assemble and construct every machine individually and according to the wishes of our customers.
OUR MANUFACTURING PLANT AT A GLANCE

1. **ADMINISTRATIVE BUILDING**
The administrative building houses the sales and development centre, customer support and the majority of the non-technical departments. The technical highlight of the building is the energy provision: Below the car park, a geothermal energy plant collects renewable energy from the depths, which is used for particularly environmentally friendly cooling or heating.

2. **DRUM MANUFACTURING PLANT**
The drum manufacturing plant is where we produce all of the drums for our rollers.

3. **SPARE PARTS WAREHOUSE**
From the spare parts warehouse, we supply customers and subsidiaries all over the world with wear and spare parts.

4. **PLANT CANTEEN**
Here, employees and visitors can enjoy a healthy meal every day.

5. **LOGISTICS CENTRE**
From here, state-of-the-art warehouse systems with highly optimised processes supply our production with all the parts they need.

6. **ASSEMBLY HALL FOR LARGE MACHINES**
This is where the manufacturing of HAMM rollers with a weight of up to 5 tonnes is realised on a highly efficient cyclic assembly line.

7. **TESTING HALL**
Before delivery, every HAMM roller must pass a comprehensive testing programme on one of our testing bays.

8. **ASSEMBLY HALL FOR SMALL MACHINES**
This hall is where we assemble all HAMM HD CompactLine rollers.

9. **TRAINING CENTRE**
We train the next generation of skilled employees in our own workshop with adjoining classrooms.

10. **CTT**
We train roller operators as well as workshop and service technicians in our modern CTT (Centre for Training and Technology).

11. **PROTOTYPE CONSTRUCTION**
The prototypes of our rollers as well as individual apparatuses for experiments and preliminary studies are created here.

12. **SHIPPING**
In this area, our shipping team prepares the rollers for delivery to customers.

13. **ENDURANCE TEST TRACK**
Endurance testing for new developments: Before series production can begin, we subject our prototypes to months-long endurance tests on two testing facilities that include steep slopes, moguls and a vibration section. Here, the rollers run autonomously.

14. **TRAINING AND DEMONSTRATION GROUNDS FOR CUSTOMER SUPPORT**
We offer our customers weather-independent driving and user training on this 4,000 m² partially roofed area.
Accompany us in our production area...
The drum – the heart of every roller

The drums are a key component in the manufacturing of rollers. We ourselves carry out every individual manufacturing step for all of our drums and set standards in the industry.

Starting with flat sheets, we mould the drums for all of our rollers using enormously powerful roll bending machines. With the help of special welding robots and lathes, the end result is a perfectly round cylinder. Finally, in our processing centres, we produce the highly precise bores and plane surfaces that are needed for mounting the vibration and oscillation units.

These components are likewise manufactured in-house, including the drives and unbalances. This ensures that the quality of the mechanically highly stressed subassemblies can be monitored up to the smallest component, and maintained at the highest level. Once assembly is completed, we finish the drums in our high-tech paint shop.
Quality - cycle after cycle
Our employees assemble compactors, tandem rollers and pneumatic tyre rollers in halls that are equipped with state-of-the-art technology. The machines are constructed on highly flexible cyclic assembly lines with associated pre-assembly, to individual customer orders.

Optimal working conditions
In every work step, our employees have the optimal conditions to manufacture the rollers with high precision - as per the customer’s requirements. Intelligent processes ensure that only the required components and tools are to hand on the cycle conveyor. This simplifies tasks and increases quality. Thanks to the use of low-noise tools and transport vehicles, our halls are also extremely quiet - an important prerequisite for concentrated work.

Robust electronics all included
Further key components in compaction equipment are the sensitive electronic components that must withstand the highest mechanical loads during compaction. With the in-house production of these high-precision and robust components, we ensure that they are able to fulfil their tasks throughout the lifetime of the machine.
As an ISO 9001 certified company, our entire manufacturing process is accompanied by numerous quality controls. From goods receipt to shipping, these controls ensure the installation of exclusively faultless components, meaning that only the highest quality leaves our plant. Moreover, we utilise production audits to continuously monitor or improve the quality of parts and processes.

The testing bay: no machine is spared
In our top-modern testing hall, we subject every roller to a comprehensive final inspection before delivery. Here, experienced employees undertake a thorough check of all functions and subassemblies. In each case, they follow test plans that are precisely tailored to the specific type of machine. This includes load testing of the drive, as well as a range of load cases, checking of electronics, and control of the vibration or oscillation drive and the steering. Only when every aspect is confirmed as properly functioning, the machine is released for shipping.
Comprehensive support - over the entire machine lifetime

HAMM rollers are designed for continuous operation in the demanding everyday conditions on construction sites. Intelligent and practically oriented service concepts ensure that our customers can undertake all necessary maintenance and service work themselves, with minimal effort and throughout the lifetime of the machine. Alternatively, our experienced service technicians are happy to provide rapid, competent and straightforward assistance.

Customers and service technicians also benefit from professional spare parts supply with high availability. To ensure this, we stock well over 20,000 different spare parts from O-rings to complete gearboxes - and deliver every part as quickly as possible to the customer, even to the other side of the world!

Workshop technicians and roller operators: worldwide up to date

For the service teams at our subsidiaries, we carry out regular further training in our CTT (Centre for Training and Technology). Thanks to the most modern methods, our employees are always up to date - enabling us to provide expert and competent support for our customers around the world.

We also offer this service for the workshop technicians of our customers, so that they can optimally service and maintain their HAMM rollers with first-hand know-how. These services are supplemented by training courses on application technology for roller operators and construction managers. Here, on a theoretical and practical basis, they learn how to optimally exploit the potential of the machines.
Roller manufacturer with head and heart
Around 1,000 people are employed at our plant in Tirschenreuth - many already for well over 10 years. This testifies to the connection that our employees feel with the company. There are many reasons for this, including the pleasant work atmosphere, fair wages, respectful interaction, or the good career and further training possibilities.

Strength also through training
The qualification of the next generation of experts is extremely important to us. At this time, we are training young men and women in the professions of mechatronics technician, industrial mechanic, technical product designer, specialist in warehouse logistics, or industrial manager. This commitment has already brought us great success - the HAMM trainees are frequently among the best in their academic year. The quality of training is also supported by the fact that most trainees continue to work at HAMM after graduation and now count among the pillars of our company.

Science meets industry
We are equally committed to nurturing the next generation of engineers, and help students and postgraduates to pursue their semester, graduate and doctoral theses within the framework of current product developments. In addition, we are in continual dialogue with numerous European higher education institutions and leading institutes in the areas of studies, detailed examinations and trials.
Thank you for your visit.