India in the fast lane

FORMULA 1: Vögele pavers created race track
MAMMOTH PROJECT: Wirtgen Group enlarges National Highway 1
HAMB 311: New production facility near Pune
FROM PIONEER TO CORPORATE GROUP.

50 YEARS WIRTGEN

ROAD AND MINERAL TECHNOLOGIES

www.wirtgen-group.de/50
Dear customers, dear staff and friends

It gives us great pleasure to present the Wirtgen Group FORUM to you in its new design. After being printed in a „newspaper format“ for 25 years, our periodical has now been revamped, acquiring the fresh and modern look of a magazine. The newly designed issue you are currently holding will be focusing on our current activities in one of the emerging markets: the positive customer response to our investments in India is spurring us on to further peak performances.

2011 – A RECORD-BREAKING JUBILEE YEAR

The business development of the Wirtgen Group was highly satisfactory this year: with a 50-year company history behind us, we were able to attain results that surpassed any we have ever achieved. Compared to the previous year, we grew sales by 12.5 percent, bringing consolidated sales of the Wirtgen Group to 1.76 billion euros in its jubilee year.

UNSTABLE ECONOMY: CAUTIOUS EXPECTATIONS FOR 2012

It cannot be ignored that leading economic institutes have downgraded their forecasts for global economic growth in the coming year and there are increasing signs of a slowdown. The global economy is currently in an uncertain phase and outlooks for 2012 are subdued. The ups and downs on world markets can not only be expected to accelerate, but to intensify, too.

OUR STRATEGY: THE WIRTGEN GROUP – A STABLE PARTNER FOR OUR CUSTOMERS

It goes without saying that the turbulence in the global economy will also be a great challenge for our customers in the road construction, mining and processing industries. For our customers, a dependable partnership is a fundamental requirement, particularly during such troubled times. Our objective is therefore to stand by our customers and be a reliable and stable partner in all respects. We are hence focusing on innovation, quality, productivity and flexibility.

With our innovative products, we aim to give our customers a competitive edge in their business operations. With the high quality of our products and services, we want to validate our customers’ decisions to purchase Wirtgen Group machines. With the high productivity of our processes, we want to guarantee the buyers of our construction machines an excellent price-performance ratio. And, not least, we want to respond to our customers’ fluctuating order situations with great flexibility, supplying the ideal solution just when the customer needs it.

We are confident that this strategy of dependable partnership will help us work together to overcome the challenges facing us. We would like to express our appreciation of our customers for placing their trust in us for 50 years. We would also like to thank our employees worldwide for their continuous dedicated work for the Wirtgen Group.

We look forward to continuing fruitful partnerships and successful collaborations in the coming year.

Our warmest wishes

Stefan Wirtgen Jürgen Wirtgen
Thrilling live presentation:
Wirtgen Group
Technology Days
in Ludwigshafen.

Formula 1 in India – perfect results are guaranteed thanks to Vögele pavers.

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Twenty years ago, the “Children in Need” charity opened a children’s home in India.

DIGITAL FORUM
Download the current issue of FORUM or send it to a friend by using the QR-code.
www.wirtgen-group.com/forum-mobil
The Wirtgen Group in India

// Formula 1 race track
// National Highway 1
// Single-drum compactor 311
Successful premiere: the first Formula 1 race ever on Indian soil took place on 30 October, 2011. In the run-up to the race, Vögele road pavers created optimal asphalt conditions.
rousing start-to-finish victory by world champion Sebastian Vettel was the culmination of the first Formula One race in India. In the run-up to the race, Vögele road pavers delivered an equally impressive top performance. From autumn 2010 onwards, they built the asphalt track, which is characterized by many turns and bends, as well as the ancillary areas of the new circuit located in the vicinity of New Delhi. On the first Formula One racing track in India, “Buddh International Circuit”, the “Vögele team” scored top marks with four Super 1800-2 especially in terms of reliability and precision. To create a perfectly even asphalt pavement for the racing drivers who would later fight for milliseconds, contractor Oriental Structure Engineers Ltd. from New Delhi used the Big Ski for levelling when paving the three-layer asphalt concrete structure.

**THE VÖGELE PAVERS MET THE HIGH DEMANDS WITH EASE**

The new entrant on the Formula One racing calendar impresses with a challenging circuit: over a total length of 5.1 km with 16 corners, pavement widths between 18 and 20 metres with super-elevations of up to twelve percent, and gradients of up to ten percent, the course offers ideal opportunities for exciting overtaking manoeuvres. To produce a premium-quality asphalt pavement that would fully meet these high requirements, the experts from Oriental Ltd. decided to use Vögele technology. Over the

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**Big Ski – precision guaranteed:** three ultrasonic levelling sensors are scanning the ground on both sides, easily levelling out even extended irregularities. Perfect results are guaranteed.

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**Finishing touches:** a special surface course asphalt containing aggregate of high polishing resistance is paved by the Super 1800-2 fitted with AB 600-2 TV extending screed at a paving width of 6 m.
course of one year, the high-performance pavers laid down a two-layer base course of crushed aggregate and around 325,000 tonnes of asphalt both on the racing track and on the ancillary areas. Maximum precision was called for especially when paving the actual racing track. The specified tolerances allowed for binder content, grain fraction and evenness were significantly lower than those specified for German motorways.

Vögele fully met the expectations placed on the pavers in terms of reliability: “The pavers operated without difficulty even at outside temperatures exceeding 40 degrees Celsius,” says service technician Ralf Peter, reporting from the job site. Expectations were surpassed in terms of evenness. “With the two Big MultiPlex Skis, Vögele achieved outstanding results in terms of evenness. Irregularities were mostly smaller than one millimetre over a length of four metres,” says asphalt specialist Dr. Rainer Hart, delighted with the paving result. He has supervised the asphalt paving operations from conception via the choice of material in the quarry all the way to placing.

**FACTS AND FIGURES**

<table>
<thead>
<tr>
<th>Facts on the project</th>
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<tbody>
<tr>
<td>Length of the racing track</td>
<td>5.141 km</td>
</tr>
<tr>
<td>Racing line</td>
<td>5.088 km</td>
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<tr>
<td>Maximum speed</td>
<td>320 km/h</td>
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<tr>
<td>Average speed</td>
<td>210 km/h</td>
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<tr>
<td>Maximum superelevation</td>
<td>12 %</td>
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<table>
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<tr>
<th>Facts on the asphalt pavement</th>
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<tbody>
<tr>
<td>Subgrade</td>
<td>two-layer crushed aggregate base of wet-mix macadam</td>
</tr>
<tr>
<td>Base course</td>
<td>10 cm, consisting of DGBM* 40 (asphalt concrete)</td>
</tr>
<tr>
<td>Binder course</td>
<td>5 cm, consisting of a special racing track mix (asphalt concrete)</td>
</tr>
<tr>
<td>Surface course</td>
<td>4 cm, consisting of a special racing track mix (asphalt concrete)</td>
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</table>

*DGBM: Dense Graded Bituminous Mixture (Indian standard)

**INDIAN PARTNERS ARE HIGHLY SATISFIED WITH THE WIRTGEN GROUP SERVICE**

Pankaj Gautam, Senior Project Manager at Oriental Ltd., found nothing but praise for the machines and crew from the Wirtgen Group: “The service technicians from Wirtgen India and Vögele have fully supported us with lots of expert knowledge and a practiced eye when it came to fine-tuning the machines.”
During the entire project duration, Wirtgen India supported the crew from Oriental Ltd. in performing regular service checks. Pankaj Gautam, Senior Project Manager at Oriental Ltd., states, “Thanks to the Vögele pavers and the applications consulting services provided by Wirtgen India, we remained well within the extremely low tolerances.”

Construction of the Buddh International Circuit is in full swing just a few months prior to the Indian Grand Prix. In addition to the actual racing track, Oriental Ltd. built 25.8 km of “normal roads”, which included two-lane, four-lane and eight-lane access roads, and asphalted numerous parking lots, the paddock complex as well as many secondary areas.

Not even for a second did Vettel lose the lead during the first race in India. He is clearly a winner – just like the Vögele pavers. Their birthplace, by the way, is only 30 kilometres away from Heppenheim, Vettel’s hometown.
Major projects in road building

The Indian subcontinent loses two percentage points in growth each year on account of its dilapidated infrastructure. Multi-billion investments in road construction are intended to change that now. The Wirtgen Group is the ideal partner in this endeavour.
Driving on NH-1 has to date been a bumpy affair. Upgrading is not a problem, however, thanks to the Vögele pavers used in the project, and will improve the situation soon.
India plans to spend 1,000 billion dollars on infrastructure development between 2012 and 2017. And there is no time to waste as one third of the crop spoils on the way from the field to the store. Ninety percent of the road network is unsuitable for heavy vehicles. Trucks need five days to cover a distance of 1,500 kilometres. To catch up on this tremendous deficit, India has launched the world’s largest programme of public-private partnerships in road construction. The goal is to build as many as 7,000 kilometres of new trunk roads per year.

**WIRTGEN GROUP TECHNOLOGIES DRIVE ECONOMIC GROWTH**

One of these projects is currently being implemented on National Highway 1. NH-1 is one of the oldest and longest highways in India, running from New Delhi in a northwesterly direction, passing through Amritsar and continuing into neighbouring Pakistan. Soma Enterprise Ltd. has been commissioned by the National Highways Authority of India to upgrade the previously four-lane highway to six lanes over a length of 291 kilometres between Panipat (Haryana) and Jalandhar (Punjab). As many as nine machines from the Wirtgen Group are in operation on this project. While a W 2000 cold milling machine from Wirtgen removes damaged asphalt layers in one section, as many as five Vögele SUPER 2100-2 pavers are pressing ahead with expanding the lanes in another. “In addition to that, we have three SUPER 1800-2 pavers in continuous operation. One paver has 12,000 hours on the clock but runs smoothly all the same,” says E. Subash, Wirtgen India’s service manager in charge. He is part of a team of six service engineers who will support the customer until the project has been com-

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**FACTS AND FIGURES**

<table>
<thead>
<tr>
<th>Republic of India</th>
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<tbody>
<tr>
<td>Total area: 3,287,590 km²</td>
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<tr>
<td>Population: 1,210,193,422 (2011 census)</td>
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<tr>
<td>Road network: 3,300,000 km; asphalted: 50%</td>
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<tr>
<td>National highways: 65,000 km</td>
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<tr>
<td>State highways: 100,000 km</td>
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<tr>
<td>Goods traffic: 70% via roads; passenger traffic: 85% via roads</td>
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E. Subash, service manager at Wirtgen India (left), explains the advantages of the Niveltronic system. R. K. Gupta, General Manager at Soma (centre), and Pankaj Zade, Assistant General Manager at Soma, rely on the tried and tested technologies from the Wirtgen Group.

Completed – probably in June 2012. Two service vehicles from Wirtgen India are available on an exclusive basis for servicing and to ensure the fast supply of spare parts.

**CONCRETE USE BOOMS IN THE DEVELOPMENT OF INDIA’S ROAD NETWORK**

Soma has entered into a partnership with Isolux Corsán to complete this large-scale contract. In addition to expanding the existing road to three lanes and constructing adjoining service roads, the project scope comprises the construction of crossover facilities with exit and entry points at major intersections as well as the construction of overpasses and underpasses, toll stations and both major and minor bridge structures. “The Panipat-Jalandhar Highway project has been extremely good and rewarding for us. We are currently cooperating with Isolux on a total of four large-scale projects, and we hope to be able to expand our cooperation in the future,” says P. R. Rao, Vice President – Highways at Soma Enterprise Ltd., commenting on the partnership with Isolux Corsán.

On Hyderabad-Vijayawada Highway, a stretch of NH-9, GMR Infrastructure Limited relies on concrete paving technology from Wirtgen. An SP 15 is in operation on this project, paving concrete safety barriers in right-hand offset application. Concrete is also the construction material of choice in Greater Noida, close to the new Formula One circuit, where Oriental Structural Engineers is building an expressway using an SP 1600 slipform paver. An SP 150 is paving a canal profile to ensure later drainage.

In total, the Indian road network covers 3.3 million kilometres, around fifty percent of which are asphalt roads. The network of trunk roads has an overall length of 70,000 kilometres, one third of which are single-lane roads. Much work remains to be done. With the tremendous number of tenders, the Indian government has set the stage for further economic growth, and with the right technologies from the Wirtgen Group and the expertise and field experience of the highly professional sales and service team from Wirtgen India, the possibilities in road construction are endless.
German compactor made in India

The machine designed specifically for the Indian market and manufactured in Pune since 2011 impresses the industry of the Indian subcontinent.
The economy in India is booming, which is also reflected in new roads and houses being built throughout the country. More and more often, accurate compaction is ensured by the 311 single-drum compactor from Hamm – a machine designed in close collaboration with Indian engineers and built by an Indian workforce. "In many meetings with customers, we defined the properties a machine needs to have to be successful in India," says Florian Klenk, Sales Manager at Hamm.

INDIAN-GERMAN CO-PRODUCTION: HAMM 311 SINGLE-DRUM COMPACTOR

A team of German and Indian engineers from Tirschenreuth and Pune rose to the challenge. Following an in-depth analysis of requirements, some subassemblies underwent a complete redesign while other components required only minor modifications. The prototypes were then subjected to thorough testing both in Pune and Tirschenreuth: while tough endurance testing was on the agenda in India, classical test bench and performance tests were carried out in Tirschenreuth. The results are impressive: the new, 11-tonne single-drum compactor is distinctive for its heavy-duty design and ease of operation, compacting reliably even at temperatures above the 50°C mark. It goes without saying that it also complies with all legal requirements. The machine’s exterior design, operating concept and technical design show unmistakably, however, that it is a “Hamm”, established in the Indian premium-machine segment.

Series production in Pune finally turned the 311 into a "genuine Indian". "We purchase nearly all parts locally, which
Several Indian design engineers were involved in the development of the new single-drum compactor which features state-of-the-art screens and a three-point articulated joint.

It goes without saying that the plant is equipped with state-of-the-art operating equipment such as pillar jib cranes, lifting platforms and floor conveyors.

saves transport costs and customs duties,” explains Franislav Cavar, Project Manager at Hamm in charge of machine engineering and organizational setup in Pune. “We achieve a terrific localization rate of 93 percent,” he adds, “which enables us to score top marks also in the price-sensitive Indian market.”

NUMEROUS HALLMARKS OF HAMM ROLLERS IMPRESS INDIAN CUSTOMERS

Wirtgen India’s sales team has been presenting the new machine throughout the country since the beginning of 2011. “The first presentation at bC India elicited exceptionally positive responses,” says Ramesh Palagiri, Wirtgen India’s Managing Director. Following the event, the machine toured the country to prove what it is capable of: numerous demonstrations on construction sites were just as convincing as the live demonstration at the opening ceremony in August. A large number of single-drum compactors have meanwhile been produced and delivered. But there’s even more: from the time the 311 was added to the product range, Ramesh Palagiri says, “customers have begun to order other Hamm rollers as well. This goes to show that Hamm is a byword for quality also in India.”
The 311 single-drum compactor from Hamm caters to the requirements of the Indian market – and scores top marks with customers.

Made in India: the team of Wirtgen India presented the hallmarks of the new single-drum compactor in a live demonstration.

Transfer of know-how to ensure professional servicing and maintenance, as well as the fast supply of spare parts are included in the Wirtgen Group’s value proposition, “Close to our customers”, also in India.

The 11-tonne single-drum compactor from Hamm is available in three different model versions: the “311” with rear-axle drive, the “311D” with driven roller drum, and the “311P” with padfoot drum.

The 311 single-drum compactor from Hamm caters to the requirements of the Indian market – and scores top marks with customers.
Grand opening at Wirtgen India

Wirtgen Group opens local production facility in the Indian city of Pune. Opening event in August electrifies over five hundred invited guests.
Ritual ceremonies, rousing speeches, breath-taking machine demonstrations – the opening ceremony at the new head office of Wirtgen India was a true mirror image of the country it was taking place in: colourful, very noisy and full of positive people who can get enthusiastic about innovative technologies and progress.

“The best way to predict the future is to create it.” Stefan Wirtgen, Managing Partner of the Wirtgen Group, began his opening speech with this famous quote by Abraham Lincoln. And indeed: the Wirtgen Group has taken all steps necessary to profit from the economic growth of the rapidly developing subcontinent. Series production of the 311 – an earth compactor from Hamm specifically tailored to the requirements of the Indian market – has taken off successfully at the beginning of this year. Staff has meanwhile also moved into the new, fully equipped offices of the administration building. The new training centre provides space for as many as 70 participants to be trained simultaneously. The premises are even large enough to allow machines to be driven inside for training purposes. The large workshop offers ample space for the maintenance and repair of Wirtgen Group machines. Countless spare parts orders are processed on a daily basis, via the SAP system, in the new parts depot, and the highly motivated, 180-strong team of Wirtgen India is ready to meet the challenges of the future.

LIVE DEMONSTRATIONS ATTEST TO THE STRENGTHS OF THE WIRTGEN GROUP

Five hundred guests invited to the opening event were given ample opportunity to see for themselves as the exciting machine demonstration showed one thing quite clearly: real pros are at work here. The locally produced 311 compactor was presented to the customers amid confetti showers and with background music playing. Technologies made by Wirtgen, Vögele and Hamm impressed in real-life road construction operations. The mobile cold recycling mixing plant also scored top marks with the visitors when producing high-quality cold mix from recycling materials. And when the Wirtgen SP 25 slipform paver built a complex canal profile, nobody could keep to their seats. Everybody wanted to have a closer look at the completed profile.

The Wirtgen Group has shown a strong local presence in India since 1995, having set up local sales and service centres in Mumbai, Ahmedabad, New Delhi, Hyderabad, Bangalore, Chennai and Kolkata. With the new head office and associated final assembly plant located close to the industrial centre of Pune, the Wirtgen Group has taken yet another step on the road of success in the Indian growth market. In the final analysis, the country itself will benefit from the Wirtgen Group’s success in the Indian market as the Wirtgen Group technologies create infrastructure, thus shaping the future – India’s future.
The Wirtgen Group is there for its customers not only on construction sites around the world but also at international trade shows where the corporate group presents innovations from the Road and Mineral Technologies lines of business.

**Las Vegas, Nevada, USA**

*CONEXPO-CON/AGG*
22 – 26 March, 2011  
Exhibiting company: Wirtgen America  
Number of visitors: 118,548

**Ankara, Turkey**

*Komatek*
20 – 24 April, 2011  
Exhibiting company: Wirtgen Ankara  
Number of visitors: 31,726

**Kortrijk, Belgium**

*Mateexpo*
7 – 11 September, 2011  
Exhibiting company: Wirtgen Belgium  
Number of visitors: 38,819

**Neumünster, Germany**

*Nordbau*
8 – 13 September, 2011  
Exhibiting company: Wirtgen Hamburg  
Number of visitors: approx. 74,700

**Moscow, Russia**

*CTT Moscow*
31 May – 4 June, 2011  
Exhibiting company: Wirtgen International  
Number of visitors: 28,269
SAVE THE DATES!

In 2012, the Wirtgen Group will also be present at trade shows around the globe. A visit is well worthwhile! Here is a selection of events taking place in the first half of 2012:

**JANUARY**
- 23 – 27 January, 2012
  World of Concrete 2012, Las Vegas, USA

**FEBRUARY**
- 1 February, 2012
  New Year’s Reception at the BVMB*, Bonn, Germany
- 8 – 10 February, 2012
  XVI. German Asphalt Days 2012, Berchtesgaden, Germany
- 15 – 18 February, 2012
  Times Conmx 2012, Ahmedabad, India
- 19 – 22 February, 2012
  SME – Mining Show 2012, Seattle, USA

**MARCH**
- 13 – 15 March, 2012
  World of Asphalt 2012, Charlotte, USA

**APRIL**
- 16 – 21 April, 2012
  INTERMAT 2012, Paris, France
- 27 – 28 April, 2012
  ScotPlant 2012, Edinburgh, Scotland

**MAY**
- 9 – 13 May, 2012
  VEI OG ANLEGG 2012, Oslo, Norway
- 29 May – 2 June, 2012
  CTT 2012, Moscow, Russia
- 29 May – 2 June, 2012
  M & T Expo 2012, São Paulo, Brazil

**JUNE**
- 19 – 21 June, 2012
  Hillhead 2012, Buxton, Great Britain

* BVMB = Bundesvereinigung Mittelständischer Bauunternehmen e.V. (Federal Association of Medium-Sized Construction Companies)

www.wirtgen-group.com/fairs
World of innovation

Resounding success: at the Technology Days 2011, the Wirtgen Group impressed visitors with new products and technologies, highly interesting expert lectures and action-packed live demonstrations.
The world of Road and Mineral Technologies had eagerly awaited this year’s Wirtgen Group Technology Days. On 22 and 23 September 2011, more than 3,500 international visitors saw innovative products from Wirtgen, Vögele, Hamm and Kleemann in action – live. The main production plant of Joseph Vögele AG in Ludwigshafen offered the perfect venue for this event. The world’s most modern manufacturing plant for road pavers offered ample space for live demonstrations, expert lectures and a machine exhibition.

Customers arrived from over eighty countries to see the latest trends and developments and to meet the decision makers of construction companies from around the world. A tour of the paver manufacturing plant was one of the main attractions. While production continued uninterrupted, the visitors came past high-tech machine tools, saw the birthplace of tamping bars, screed plates and screeds, walked along the cyclic assembly lines and finally passed the environmentally-friendly powder coating plant.

“A World of Quality” is more than just a slogan for Vögele.

A WALK OF INNOVATIONS

In front of the production buildings, numerous technical highlights awaited the guests on the 300-metre long “Wirtgen Group Avenue”. All of them discovered new products among the exhibits – whether the high-tech W 210i cold milling machine or the slipform paver autopilot from Wirtgen, the MT 3000-2 offset feeder.
New products were staged in an aesthetic display during the “Parade of Innovations.”

There was loud applause for the operating crew performing the live demonstrations.

The visitors were given additional information via headsets.

Unrivalled: the range of Wirtgen cold milling machines with numerous optional features.

“Close to our customers”: applications consultant in conversation with a customer.
In highly interesting expert lectures, the heads of Engineering and Development at Wirtgen, Vögele, Hanlin and Kleemann answered topical questions related to road construction and mining technologies. The list of topics included not only state-of-the-art methods of natural rock processing but also economical solutions for road rehabilitation and compaction.
from Vögele, the new H 20i and H 18i single-drum compactors from Hamm or Kleemann crushers of the EVO generation.

Presented in a central location among the new machines, service exhibits communicated the Wirtgen Group’s focus on first-class customer service and applications consulting. That this has been the company’s philosophy right from the beginning was documented further by the display presenting “50 years of Wirtgen”, which impressively illustrated what it is that makes Wirtgen stand out.

All employees of the Wirtgen Group are inspired by their passion for road construction and mineral raw materials processing. Being the key innovation driver, their commitment helps create integral, cross-brand solutions that cover the entire process from materials mining all the way to the new construction and rehabilitation of roads, and which generate success for construction companies around the world. In three live demonstrations, experts from the main production plants showed how to operate the machines and technologies with utmost efficiency and precision. They produced a subbase layer, paved and compacted asphalt, gave an example of road rehabilitation and recycled construction material. The prolonged applause at the end of the live demonstration was proof that, yet again, the audience was electrified, taking home with them not only relevant information but also pure delight in the brands of the Wirtgen Group.
The new milling machines from Wirtgen will enable us to take yet another forward leap. We particularly like the latest innovations, such as quickly changing the drum speed. Wirtgen is many steps ahead also in terms of control technology and the numerous options for controlling the milling depth. The machines are exceptionally user-friendly. It is quite simple: Wirtgen knows what the customers need.”

Canada: Brad Leduc and colleagues (Leduc Contracting)

What sets Wirtgen apart from the competition is the tremendous speed of development. The company continues to introduce useful products and technologies into the market. I am currently looking for new pavers needed for large-scale projects in Qatar and Saudi Arabia. In this regard, I appreciate the excellent application consulting services provided by the Wirtgen Group.”

United Arab Emirates: Costas Frangoudes (Wade Adams Contracting Ltd.)

THE DIRECT DRIVE SYSTEM of the Kleemann MR 130 ZS enables me to save more than 30,000 Swiss francs per year in diesel costs. In addition to the technology, I’m also delighted about the constructive cooperation with Kleemann.”

Switzerland: Andreas Klingels (Gurtner Baumaschinen AG), Erich Renggli (WAVEAG), Christian Gurtner (Gurtner Baumaschinen AG)

The new milling machines from Wirtgen will enable us to take yet another forward leap. We particularly like the latest innovations, such as quickly changing the drum speed. Wirtgen is many steps ahead also in terms of control technology and the numerous options for controlling the milling depth. The machines are exceptionally user-friendly. It is quite simple: Wirtgen knows what the customers need.”

Germany: Ursula Neuendorf (Neudo GmbH)

I recently purchased a W 210 for my contracting business. The machine operators have no problem handling it after only a short training period. And safety is increased significantly by the optional camera system.”

Germany: Ursula Neuendorf (Neudo GmbH)

All industries in China are now increasingly focusing on recycling. In road construction, we rely on the cold recycling technologies offered by the Wirtgen Group, and we successfully operate recyclers, a cold mixing plant, the WLB laboratory-scale plant and Vögele pavers. Our current plans are to expand our recycling activities, and we are therefore most interested in the crushing plants. Previous experience has proven that cooperation is very good, and Wirtgen China’s applications engineers provide excellent support. We truly do feel at home in the Wirtgen Group.”

China: Yue Liu (Xiyuefa Highway Maintenance Company)
Following the successful launch of the Wirtgen W 150, W 200, W 210 and W 250 cold milling machines, the recently presented W 220 completes the development of the new large milling machine generation. All machine models have been optimized further in terms of milling performance, ease of operation, flexibility of use and economic efficiency. “The development of our new generation of large milling machines has been greatly influenced by our customers’ field experience,” explains Christian Berning, Applications Engineering and Project Planning at Wirtgen GmbH. “Because of our close customer relations, we are quite familiar with the requirements coming from the field, which have been incorporated into the development of the machines.”

W 220 – HIGH PERFORMANCE AND JUST THE RIGHT SIZE

The compact W 220 high-performance milling machine serves as a good example to illustrate this course of action. In the standard equipment package, it comes with a 2.20-m wide milling drum assembly. A quick-change drum assembly offering a milling width of 2.50 m is available as an optional feature. Both milling drum units have a maximum milling depth of up to 35 cm. Under optimal conditions and in continuous operation, the machine’s 766 HP engine enables it to remove up to 900 tonnes of asphalt per operating hour. In addition, the W 220 has been consistently streamlined to compatible transport dimensions and weight. The intelligent WIDRIVE machine management system is also part of the on-board equipment. It not only increases operator comfort but also guarantees low fuel consumption and environmentally compatible milling.

““The development of our new generation of large milling machines has been greatly influenced by our customers’ field experience.””

Christian Berning, Applications Engineering and Project Planning at Wirtgen GmbH
OCS – A WORLD FIRST FOR COLD MILLING MACHINES

Special emphasis was placed on further improving ease of operation. Wirtgen is setting new standards in this area with the innovative “Operator Comfort System” (OCS) for the W 200, W 210, W 220 and W 250 models. The hydraulically moving and swivelling cabin is the key element of the new OCS – it is adjusted quickly and efficiently to the optimal position for the machine operator to have full visibility at all times. The cabin’s high-quality interior also caters to all needs: camera, highly precise joystick control and a powerful automatic climate control system provide an ideal working environment regardless of weather conditions. “The cabin is therefore a useful option in particular in regions with many days of bad weather, such as Northern Europe or Russia,” explains Bernd Holl, Product Manager Cold Milling at Wirtgen GmbH.

A STEADY STREAM OF TECHNICAL HIGHLIGHTS

But that’s not all. Wirtgen has refined its large milling machines further with a multitude of additional technical features. “FCS Light” (Flexible Cutter System), for example, enables most diverse milling applications to be completed quickly and to specification using a wide variety of milling drum configurations while the “PTS” system (Parallel to Surface) enables the large milling machines to be automatically aligned parallel to the road surface. Maximum traction even on difficult ground is guaranteed by the “Intelligent Speed Control” system (ISC) which – similar to the traction control system of a car – prevents slipping of the track units. With the “Dual Engine Concept” implemented in the W 210 and W 250 models, Wirtgen GmbH once again demonstrates its commitment to environmental issues. Using two diesel engines instead of one enables the engine power to be utilized selectively in accordance with specific job requirements. This results in a reduction of fuel consumption by up to 25% compared to similar conventional drive systems.

EMISSION STANDARDS

“The “i”-designation machines from the Wirtgen Group are also distinctive for environmental friendliness. “I” is short for “intelligent emission control” – a drive technology designed to protect the environment.

All machines equipped with the new engine technology are consistently coded with an “i” in their machine designation, thus complying with the new emission directives that have been effective since early 2011 in the economic areas of the EU and EFTA (European Free Trade Association), USA, Canada, Israel and Japan, and which pose major challenges not only to the engine manufacturers.

“We, the construction equipment manufacturers, also need to put in a tremendous technical effort. To comply with emission limits, we not only need to install the modified equipment required for the new engines but also the components needed for exhaust gas after-treatment. These items plus the additional components that need to be installed, for example, for cooling, control or operation, require a lot of space,” says Peter Berghoff, Deputy Head of Engineering and Design at Wirtgen GmbH.

With the “i”-designation machines, the Wirtgen Group has prepared for the new emissions legislation in good time, giving all customers a high degree of planning security. And what’s more: the machines enable users to favourably stand out against the competition and offer “clean”, that is, environmentally friendly machine technology when participating in tenders.
Business as usual

Wirtgen GmbH is enlarging its production capacity so that the growing demand for high-quality special-purpose machinery built by Wirtgen can be optimally met in the future, too.

Déjà vu in Windhagen: in June 2011, just three years after construction of the final assembly hall, the western part of the company’s site has once again become a construction site. Seven new aisles are being added to the final assembly hall of the production area for special-purpose machines. Ditches were dug for the electricity supply, cables laid in the sand and foundations cast in concrete. Construction work in the plant is progressing step by step. The work is now almost complete and the Christmas party with the entire workforce – a fondly held tradition of the family-run company – will be held in the new premises this year.

ASSURE CONTINUITY, BECOME MORE COMPETITIVE

Due to the special-purpose machines’ resounding market success, there was no longer sufficient production capacity for Surface Miners, Cold Recyclers and Slipform Pavers on the 320,000-square-metre site. In order to boost competitiveness in this segment, Wirtgen GmbH decided to enlarge the final assembly hall from 11,000 to 25,000 square metres. The decision is also in keeping with the company’s 50-year history, for such values as stability, continuity and growth have always been the mainstays of its corporate philosophy. Moreover, it is also a clear sign of confidence in the family-run company’s highly qualified workforce and a clear commitment to the location in Windhagen, as well as to Germany as a whole.

Back when the hall for special-purpose machines was being built in 2009, the plans left room for future developments. It was a strategically important and correct decision that is now paying off. “Ultimately, our hall design for special-purpose machines has proven ideal. To put it simply, however, we will now have to make everything just a little bit bigger,” explains Norbert Dinspel, Plant Manager at Wirtgen GmbH. The inner workings of the future production halls were designed in close collaboration with specialist teams from the various production areas, improving current workflows in the process. The workers in particular also benefit from the optimizations. State-of-the-art technologies paired with spacious and well equipped assembly areas ensure ideal conditions for the staff.

PROGRESS FOR THE EMPLOYEES AND THE ENVIRONMENT

“The new combined heating and ventilation system installed here is certainly one of the highlights. The system has already proved its value in the old steel construction hall. It draws in process heat and dust particles, filters them and then supplies the workers with clean air at an optimum temperature,” says Norbert Dinspel. Based on a principle of operation that makes economical use of the resources available, the process is also particularly eco-friendly on account of its low emission levels. A separate canteen and new recreation rooms have been provided for the employees, offering them pleasant surroundings outside the working area.

The fact that steel construction is now also located in the factory for special-purpose machines further optimizes processes between the individual work sections. As a result, robust large parts, such as the heavy chassis weighing up to 40 tonnes, are...
The electrical workshop can soon move into its new three-storey premises in the eastern part of the site, where soldering, filing and voltage measurement will be the order of the day in future.

Construction work currently focuses on enlarging the administrative building, where a 42-metre-long extension is being added to the south. It too will be ready for use in summer 2012.

Special-purpose machine factory

Just four months passed between erection of the first pillar to completion of the new final assembly hall for special-purpose machines in the western part of the site.

Production in the new halls is scheduled to start in the first quarter of 2012, but everyone is already expectantly looking forward to the “big day”. “This expansion will provide us with additional, identically equipped assembly stations in future, which will allow us to react more flexibly to the momentary order situation. In this way, we can make use of additional assembly stations during peak production periods for a particular machine model, for instance,” says Norbert Lenzenbach, Foreman in the Surface Miners department.

The construction of the new three-storey electrical workshop was completed while the factory for special-purpose machines was being expanded. Wirtgen GmbH is enlarging its administrative building to accommodate the growing workforce in Windhagen. This building will be finished in mid-2012. Klaus-Peter Brabender, Foreman in the Recycler Series Production and responsible for prototype test series, confidently expects that the roughly 14,000 square metre expansion will provide additional capacity to speed up assembly and make it more efficient: “Relocating the steel construction division means that the material is now transported over considerably shorter distances, saving valuable time and minimizing costs.” And Thomas Buchholz, Foreman in the Slipform Pavers department, adds: “Thanks to the new aisles, we can control the various process sequences more effectively; this will boost productivity while maintaining the same high quality.”

Before production can start in 2012, however, the various departments must be moved to their new premises without a hitch and without interrupting production. The plant management team is confident that the company is optimally prepared for this task: “Detailed relocation plans have been made and are now available. Besides which, we’re well-practised now, having experienced other factory enlargements in the past,” says Gerd Prassel, Head of Production Control and Job Scheduling. Together with Plant Manager Dinspel, he is looking forward to the coming weeks.

www.wirtgen.de
A world of quality

Because good is not good enough, production staff at Joseph Vögele AG continuously strive to improve the existing quality standards.
Joseph Vögele AG leads the world market for pavers and their technology. One reason for this leadership lies in the top quality of its products and services, quality that is based on the company’s new factory. For Vögele, the new factory in Ludwigshafen is an opportunity to scrutinize and improve existing processes. Logistic workflows, for instance, have been optimized with an eye to the value-added and the flow of material. Ultramodern machines and superbly trained employees are further hallmarks of the new factory.

**“ONE DROP DELIVERY” – NOTHING IS PICKED UP MORE THAN ONCE**

Short distances and the principle of flow assembly with continuous production lines allow the Vögele staff to work with full concentration and without any unnecessary interruptions. The materials are stored right there where they are needed. What’s more, the individual components are also preassembled precisely where they are to be installed in the machine. The mechanical production area is a prime example of high-precision work. During production of the telescoping tubes, honing machines eliminate microscopic irregularities that are up to 20 times finer than human hair. Thanks to this precision, the telescoping tubes of the extending screeds move in and out with perfect ease. Despite this, however, all tubes are additionally ground. This precision produces sturdy extending screeds with zero flexing.

**AUTOMATED PROCESSES**

In the steel working shop and the mechanical production area, robots are used in a number of fundamental work sequences to ensure that quality remains at a consistently high level. For instance, Vögele uses what is known as a flexible welding system with welding robots to automate the production of welds. This system is programmed just once and then works more or less independently. A total of four welding cells are constantly supplied with the required workpiece pallets from an automated high-bay warehouse. An orbital positioning device holds and moves the workpiece while it is being welded by the robot. This ensures consistently high quality of a standard unattainable when welding is done manually.
A production team is responsible for compliance with and further development of the quality standards jointly developed in accordance with the continual improvement process (CIP). This process is made up of small continuous steps serving to improve the quality of products, processes and service. Orderliness and cleanliness are factors of paramount importance. For example: only the tools actually needed for an assembly step are located at the workstation. Tools which are frequently needed must be within the worker's direct reach. The appropriate supply systems are provided by Vögele. If workers find individual solutions for a particular task, such as a holder for glues or a storage device for cable ties, these are investigated and then standardized if applicable.

MODERN, ENVIRONMENTALLY FRIENDLY PROCESSES

The powder coating facility with two booths for different colours was the biggest single investment in machinery for the new Vögele factory. Hardness, elasticity, adhesive strength and the resistance to light and corrosion of powder-coated surfaces are considerably better than those of conventionally painted coatings. This also makes them particularly durable and strong. What's more, the powder coating facility proves that quality, cost-efficiency and environmental protection can go hand in hand. The heat produced when baking the powder coating, for example, is used to dry the components after cleaning or to heat the factory halls in winter.
Before the machines leave the factory, they are put through a series of exhaustive tests. Can the paver be driven, steered and braked as intended? Do the lights, indicators and displays work? Are all the speeds, pressures, filling levels and heat outputs correct? Have all the customer’s special wishes been met? All in all, paver and screed undergo 200 tests and inspections before being approved and released with a detailed assembly and acceptance record.

The customer is not abandoned even after the machine has been delivered. Highly trained and experienced after-sales staff can reach every site anywhere in the world in next to no time. They help the paving team when working with new products for the first time, obtain replacement parts and assist the repair shop during maintenance or when upgrading older machines with new components. This total service is based on a global network of 55 sales and service companies and more than 100 Wirtgen Group dealers.

www.voegele.info
Efficient, fast and flawless

The reorganization of the flow assembly system is a key concern in Tirschenreuth today. Hamm has taken a variety of steps to boost efficiency in compactor construction.

Build a new hall or optimize processes – that was the question facing Hamm due to its steadily growing number of customer orders. Technical Director Dr. Stefan Klumpp recognized the potential inherent in the processes and launched a far-reaching reorganization process in autumn 2010. A project team was specially set up for the purpose, with clearly defined goals: shorter turnaround times, better use of the available space, more efficient production and lower stocks.

Although many employees initially approached the project with scepticism, it soon proved to be a success story. With professional know-how, experience, creativity and the staff’s active support, the team soon found the ideal solution for Hamm. “Everyone was called on to contribute their own ideas and participate in reorganizing their own workplaces. Our employees are highly moti-

“The flow assembly system is so successful because the workers themselves were involved in shaping it.”

Dirk Pressgott, Factory Manager
vated and know exactly where improvements can be made,” says Dr. Stefan Klumpp.

The results are impressive: today, the compactors are built in half the time previously needed, in 14 steps instead of formerly six. To this end, the pre-assembly area has been integrated into flow assembly in a herringbone system; changes in the sequence of assembly steps greatly reduce distances on the assembly line. In this way, efficiency has been boosted by 15% in the past twelve months. The logistics has also been completely reorganized. Storage areas along the assembly line have been eliminated, with in-house logistics now delivering the required parts on a just-in-time basis. As a result, the assembly workers on the line can work continuously without having to stop and search for parts.

**GOOD TRAINING AND FLEXIBILITY SIMPLIFY TEAMWORK**

Due to the immense variety of models and options, Hamm effectively produces single-piece lots. The time required for assembly at each stage consequently changes constantly. “We now avoid downtimes by forming larger pre-assembly and assembly line teams. The workers have received the appropriate training and can now work flexibly in pre-assembly or on the line for several cycle stages.” For factory manager Dirk Pressgott, this is an essential factor in the project’s success.

Yet the project is still ongoing. In addition to reorganizing the production of Tandem Rollers and Static Rollers, purchasers and logisticians are continuing to streamline processes in close collaboration with suppliers, for instance by optimizing the management of call orders or modifying container sizes.

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“People aren’t working more or faster since the system was re-organized, they are just working a great deal more efficiently.”

Konrad Meißner, Head of Production Control and Project Manager for the reorganization of line A (right)

“The transition phase was strenuous, but everything is much brighter and more transparent now.”

Alois Hopf, Foreman (left)
Non-stop production

Output doubled with up to 17 shifts per week – the drum factory at Hamm AG has been running at full capacity since the beginning of 2011.
Production in the world’s most modern drum factory started in Tirschenreuth three years ago. All Hamm drums are now produced there, without exception. Since then, Hamm has repeatedly invested in production, most recently spending around 1.5 million euros on an additional lathe and two new welding robots. “The lathe is needed for the numerous oscillating drums. Their number has more than doubled since 2007,” explains Günter Kolberg, manager of the drum factory.

The right concept and flexible workers ensure non-stop production

Every single drum, whether with oscillation or vibration, is produced individually for a customer order. A sophisticated schedule determines exactly when the heavy steel cylinders are to be produced with their swinging inner workings. This schedule is designed to minimize the required tooling times. Despite all this efficiency, however, the enormous demand made it necessary to work between 15 and 17 shifts per week throughout 2011. In other words, production continued without interruption from Monday morning to Friday evening or Saturday afternoon. Clever planning, flexible workers and a suitable concept allowed Hamm to master this challenge with aplomb. With the help of additional personnel, numerous qualification courses and an extremely flexible workforce, the high-tech machining centres can run 24 hours a day. “The pressure is immense, but somehow the workers have managed to increase the number of units produced and at the same time train new colleagues on the job,” says production professional Kolberg, delighted with the staff’s high motivation.

Hamm took steps early on to assure first-class quality even in peak times. The decisive criteria, such as weld preparation, precision of the diagonals and hardness of the steel, were defined by Günter Kolberg and Rolf Hanauer, the man responsible for quality assurance in the drum factory, together with the suppliers. Compliance with the specified requirements is assured through a thorough incoming inspection by the QA team.

Despite the high capacity utilization, Hamm still finds time for new developments. The basic conditions for this are ideal, thanks to on-site production. Günter Kolberg looks to the future optimistically and is confident that “short distances and direct communication with the development department will help us to further improve and promote the compacting systems”.

“I operate the lathe and two other machining centres. My work is varied and keeps me up-to-date.”

Tobias Haberkorn, Industrial Mechanic

www.hamm.eu
Series production rules

Production increased by around 86 percent, and nearly twice as many plants sold as in the previous year – 2011 was a record-breaking year for Kleemann GmbH.

Markus Wörner travels a lot. Having just returned from China, a meeting at Kleemann’s main plant in the Württembergian town of Göppingen is the next item on his agenda. In recent months, the Sales Manager of Kleemann GmbH has been much sought after on nearly every continent. “Now that we can use the distribution channels of the Wirtgen Group, we have been able to win a lot of business deals abroad. But sales results in Germany have also made excellent progress in recent months,” says Markus Wörner.

New production processes, products developed in line with market demand, international marketing: Kleemann offers an innovative range of mobile crushing and screening plants for processing mineral raw materials. The company’s success is based on several key drivers. In addition to sales, decisive factors include the company’s highly motivated staff, state-of-the-art plant in Göppingen and innovative product engineering. Quality consciousness, teamwork and customer focus also play a central role. “All of our employees are very quality-conscious, and the new plant has increased the strong motivation of our staff working in Production even further,” says Michael German, Assembly Manager and Deputy Operations Manager at Kleemann’s main plant in Göppingen.

In 2009, the company’s three previously separate production plants were merged into a single new plant in Göppingen. “Pooling all production facilities in a single location has enabled us to take a decisive step towards optimizing production processes and material flow,” explains Michael German. The mobile crushing and screening plants are produced on four assembly lines. Optimizing production processes has resulted in improved quality and increased speed of production. “Cyclic assembly has enabled us to significantly reduce the time of production of some plant models,” says Operations Manager Berthold Grießhaber. “The efforts made over the last year have paid off in full. The assembly lines can be flexibly adjusted both to the different product types and to incoming orders. The concept has paid off in full.”

“Since becoming a member of the Wirtgen Group some years ago, the number of mobile plants produced has been continuously increased, switching from previous build-to-order manufacturing to series production.”

Dr. Gerhard Schumacher, Managing Director
Mobirex EVO plants on the assembly line: innovative product engineering, state-of-the-art, high-tech production facilities and highly qualified staff are the key success drivers.
“Continued training of our workforce plays an important role. All of our employees are trained on an ongoing basis. This is a key element of our quality concept.”

Michael Geman, Assembly Manager

New technologies, optimized processes and multi-faceted work all contribute to producing high-quality machines. Inter-departmental collaboration is an important element of quality management. It extends from product development and production planning all the way to sales. In addition, all employees are invited to suggest improvements which are implemented following an internal evaluation procedure. The continuous improvement process (CIP) plays a vital role in engineering and production. “Full order books and the company’s international success are great motivators for the entire workforce. State-of-the-art production processes have made us one of the most attractive employers in the region,” says Berthold Grießhaber. “This is very important when it comes to attracting qualified trainees.”

Being a member of the Wirtgen Group enabled Kleemann to expand its market share. In the past two years, Kleemann acquired new customers in important emerging markets, such as Brazil and China. New orders have also been received from countries where Kleemann has long made a name for itself, such as the United States where Markus Wörner intends to sell twice as many plants in 2012 as the average number sold in recent years.

The mobile impact crushers in the MOBIREX series are the biggest sellers. This model range includes the MR 110 Z EVO and MR 130 Z EVO impact crushers – the two best-selling plants in the company’s range of products. More than 100 machines have been delivered in 2011. What customers appreciate most about the EVO plants is their universal application in the processing of natural rock. EVO is short for a significant step forward in terms of performance, economic efficiency and resistance to wear and tear.

www.kleemann.info

Welding of the rotors is performed in accordance with highest quality standards. State-of-the-art machines and tools enable maximum precision. Quality checks are carried out at various points of the production process.
“Teamwork is a key element of success. All of our employees have the flexibility to work on different product ranges. Altogether, we were able to significantly reduce production times.”

Berthold Grießhaber, Operations Manager
Employees with experience and expertise are a valuable asset. Wirtgen GmbH makes sure that their know-how is preserved when employees go into retirement.

Knowledge is a treasure, and it is the foundation for the success of the Wirtgen Group. When employees with many years of experience go into retirement, they leave a gap. The Wirtgen Group has found a way to prevent this from happening. Looking back: a training course has been scheduled on the topic of thermal engineering. The theoretical part will be facilitated by Helmut Hecking, the practical part by Willi Stockhausen and Arnold Auding – everything has been planned right down to the last detail. Unfortunately, it turns out that the employees scheduled to facilitate the practical part of the training have long been enjoying their well-deserved retirement. Where to get other experts? The retired employees have taken their expertise with them, and it is difficult to find equally qualified employees to replace them. Luckily, a quick phone call to the retirees removes the bottleneck. Despite enjoying their retirement, they gladly agree to facilitate the training course.

A REWARDING RELATIONSHIP FOR YOUNG AND OLD

Wirtgen GmbH attaches great importance to the trainee and senior journeyman being able to work on partnership terms. Feedback discussions are on the agenda at regular intervals to ensure that the cooperation is beneficial to both sides. There are currently three partnerships between a trainee and an older, experienced employee.

“We at Wirtgen have created so-called experience teams, each of which includes one trainee and one experienced employee,” explains Helmut Hecking, Head Instructor at Wirtgen GmbH. The workplaces of the team members need to be sufficiently close to one another especially in the manufacturing division so that the trainee can ask questions and get help whenever needed. “In return, the younger employee assists the older one to relieve him of part of his workload. It is an expression of our appreciation of the older employee that someone is put at his side to assist him,” Helmut Hecking continues.

Teamwork across generations pays dividends: trainee Daniel Müller benefits from the hands-on knowledge and skills that senior journeyman Hermann Krumseid has acquired in the course of several decades and is now gladly passing on to him.
One of these teams is formed by trainee Daniel Müller and senior journeyman Hermann Krumscheid. Daniel Müller is currently in his third year of training as a construction mechanic and has been working with Hermann Krumscheid for three months. The trainee recounts that the senior journeyman is teaching him many useful tricks of trade: “He has shown me how to straighten a piece of sheet metal using a flame. You won’t find that in any textbook.” Hermann Krumscheid is convinced that “learning by doing” is the only way for the trainee to gather as much experience as possible. “Theory is all well and good, but hands-on application is better,” says Krumscheid.

Paul Kremer, head of Steel Construction, knows what’s important for the trainees: “They are given their own jobs and are required to process them on their own initiative. That’s a big motivation.” A motivation that pays dividends: at school, Daniel Müller notices that he is well ahead of other trainees. “Working with Hermann, I’ve been able to learn specific things that others at school have never heard of before.” To keep it that way and to make sure that no knowledge is lost, it is important for the young people to acquire as much of the knowledge of the older and experienced employees as possible. For Helmut Hecking, there is only one conclusion to be drawn: “The experience teams have been such a great success that many more will follow.”

FROM OUR TRAINING DEPARTMENTS

SCHOOL SPONSORSHIPS

WINDHAGEN. Wirtgen GmbH will sponsor the Intermediate Secondary School “plus” and Upper Secondary Vocational School in Asbach. This has now been officially agreed upon in writing. “This is an important step on our way to better dovetail schools and businesses in the region,” says Headmaster Berthold Becker (left). Schools and businesses need to work closely together in view of the looming shortage of skilled labour. “Our commitment is important as it will help to strengthen and develop the region as a business location,” says Head Instructor Helmut Hecking (right).

BAVARIA’S BEST TRAINEE

TIRSCHENREUTH. Bavaria’s best trainee has completed his training at Hamm. 19-year old Thomas Göhl has recently received an award by the Regensburg Chamber of Commerce for the best exam results as industrial mechanic in Bavaria. This is really not surprising, for the trainees in Tirschenreuth, as in all member companies of the Wirtgen Group, receive exemplary training. Pictured (from the left): Reinhold Baisch, Member of the Board at Hamm AG; Dirk Preßgott, Plant Manager; Josef Dill, Head Instructor; Thomas Göhl; Wolfgang Eck, Manager of the local Chamber of Commerce; Dr. Stefan Klumpp, Member of the Board; Udo Kasseckert, Human Resources Manager.

VÖGELE TRAINEES ASK FOR VOTE

LUDWIGSHAFEN. Vögele’s third-year trainees and their instructors have come up with something very special for the Wirtgen Group Technology Days 2011: the Vögele Voting Point. After having completed the tour of the plant, visitors were invited to vote on how much they had enjoyed the tour. The “voting machine” was designed and built by the trainees on their own initiative. The visitors’ vote was unanimous: the tour of the plant was a valuable addition to the event.

GÖPPINGEN. Trainees of the Wirtgen Group put knowledge into practice during the Trainee’s Technology Days of the Wirtgen Group which were first staged in 2007. The trainees realized small construction projects on their own initiative. Being this year’s organizer, Kleemann GmbH welcomed colleagues from Wirtgen, Vögele and Hamm to Göppingen. A successful excursion into the Wirtgen Group’s world of Mineral Technologies. Needless to say that the trainees also completed a small road construction project.
A small orphanage in the Indian city of Tanuku grows into an elementary school and affiliated high school currently attended by 362 students.
Some twenty years ago, the “Children in Need” charity opened a children’s home in Tanuku, a city in the Indian state of Andhra Pradesh. At the time, sixty-two girls and boys from extremely poor families found a new home, most of them orphans or children living on the streets.

One of them was a seven-year-old girl that was hardly able to walk because she suffered from poliomyelitis. Her parents had abandoned the little child because of her severe disability, and a relative brought her to our home. Despite her physical condition, Tulasi was a little sunshine among the kids. She never complained and was in a cheerful mood most of the time. After about three years, we found a physician at one of the city’s hospitals who was prepared to perform surgery on Tulasi. Despite some concerns, the surgery was successful even though Tulasi was only able to walk on crutches for a long time. Slowly, however, she learned to walk on her own.

Tulasi is now married to a very nice, slightly disabled man, and the couple have a healthy little son. We met them during our visit to Tanuku, and both seemed to be quite satisfied with their life. Tulasi was still as cheerful and outgoing as we had known her as a child. At our children’s home in Tanuku, she had attended the affiliated elementary school and had participated in many of the sewing courses offered. Even back then, she enjoyed sewing very much, spending every spare minute to pursue her hobby. Her favourite pastime has since become her profession. Her godmother in Germany gave her money as a wedding gift, which enabled her to buy a high-quality sewing machine. Today she sews to order for the other villagers, thus improving the family income.

Many of the one-time orphanage residents come to visit their former home even today. They have found work and established their own families.

**Good education is the first step towards a better future.**

In the meantime, many things have changed in the relief project. Our elementary school is attended not only by students living in the children’s home but also by many girls and boys living in the

*Good education is the only way for children to leave poverty behind.*
socially deprived neighbouring areas. We applied for state accreditation of the formerly private elementary school, which was granted. This offered a major advantage to the boys and girls as they were free to study at any state-accredited high school after having completed primary school.

It then turned out that many good students, having completed elementary school, did enrol with a state-accredited high school to continue their school education only to drop out again after a short while because their parents sent them to work as day labourers on large farms. This situation was equally frustrating both for the students and for us.

Five years ago, the “Children in Need” charity decided to expand the existing elementary school and home by adding an own high school which has meanwhile also been granted state accreditation. Our elementary school and high school are currently attended by 362 boys and girls altogether from the children’s home and socially deprived neighbouring areas. The students receive strong support from their teachers if their parents want them to work as day labourers, expecting them to drop out of high school. In most cases, the teachers succeed in convincing parents to give their child a good school education, especially as they do not incur any costs.

“Sponsors are urgently needed for our Tanuku relief project. They provide invaluable support to our children on their way to a better future.”

Yours sincerely,

Gisela Wirtgen, Chairwoman

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“CHILDREN IN NEED” CHARITY

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| **Raiffeisenbank Asbach-Neustadt** |
| Account No. 100 052 724 |
| Bank code 570 692 38 |

The charity

Founded in 1983 on the initiative of Gisela Wirtgen
Provides help and relief education on a voluntary, altruistic basis
Maintains and supports relief projects in the Philippines, India, Chile, Argentina and Brazil

Further information

| www.kinder-in-not.de |
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