

CASE STORY

CADORMATIC 500 Shearline at the Smorgon Steel factory in Sydney

Smorgon Steel sets a new standard

By Ulrich Deichmann

During 2006 Smorgon has upgraded their 2 existing rebar factories in Perth and Sydney with an integrated solution from STEMA/PEDAX. The wish to improve on productivity started in 2004 where the first suggestions and layouts were made for a new factory within the Smorgon group, where the goal clearly was to have a stepped improvement in manhour per ton. STEMA/PEDAX was selected to be their partner with regards to bar processing. During the process an

opportunity to secure some equipment from the T5 rebar factory in London occurred and Smorgon purchased a large part of this factory.

The next challenge for STEMA/PEDAX was to revise the layouts so that these existing machines could be fitted into the layout with new machines as well, in order to fulfil the original idea of layout and productivity goals. Very quickly there was an agreement for the new layouts and the delivery took place early in 2006.

The heart of the bar processing in both factories is the well-known CADORMATIC 500 heavy duty shear, which is responsible for the majority of the bar cutting in the planned production. A new automatic pocket system for the CADORMATIC has been integrated with more than double the capacity compared with previous equipment.

So all bars cut for bending are optimized in the pocket system with 5 levels and 3 integrated roller conveyors giving an optimal number of boxes for the optimization process. After optimization the bar is then transported automatically with roller conveyors to the various bending positions, where a mix of STEMA/PEDAX PERFECT benders and PERMATIC double benders are integrated.

The cut bars – not for bending – are transported automatically down stream to a large area near the loading area with automatic collecting pockets. In this area bundling and loading onto trucks is taking place.

The biggest challenge was the Sydney plant, where the entire existing layout was changed completely, but within 4 to 5 weeks the new factory was up and running.

“Both factories has been in operation for more than 6 months and we can look back and say we have been very happy with the work and service offered by STEMA/PEDAX – also their commitment to have a local service engineer in Australia”, says Dave Hunt National Operations Manager, Smorgon Steel.

CASE STORY

JOOS Stahl

By Rolf Klein

Albert JOOS AG was founded in 1932. Today, 75 years further on, the powerful company in the legal form of a public company possesses five locations and along with 10 other companies belongs to the Spaeter Group Switzerland, with headquarters in Basel.

Albert JOOS AG employs 95 members of staff in their locations of Chur, Altstätten, Davos, Romanshorn and St. Gallen, covering the areas of steel, metal, reinforcement, building products, building services equipment and supply.

The area that deals with steel reinforcement is the one that is of interest to STEMA/PEDAX. Fredy Knaus runs the rebar shop in Chur, which is now fitted with state-of-the-art computer controlled machines for processing reinforcing steel. The first discussions about modernising the rebar shop were carried out at the beginning of 2005. Several layout proposals were optimised together, until all those people involved in the process were satisfied with the solution.

An exciting and challenging task for STEMA/PEDAX – planning specialists from STEMA/PEDAX were asked to help out due to the fact, that the existing halls, which had been expanded step by

step in the past could not be modified. The available space had to be used in such a way as to allow for adequate storage of raw material and ensure an economical workflow from incoming materials, production, order commissioning and loading of material.

The solution: A STEMA/PEDAX – COMBILINE G with a mobile storage system, a powerful cutting unit, with a pocket system for the chaotic feeding and unloading to the attached PERMATIC double bending machine, with transport tracks and collection boxes for the well arranged automatic storage of fixed lengths.

In July 2006 the sales contract was signed by Paul Thalmann, Managing Director and board member and Fredy Knaus.

What is very interesting and striking is the custom designed mobile cantilever bar store with seven boxes for 20 m long bundles, which is moving over a underground storage, used as a buffer stock. This design has helped resolve some major space constraints.

Service with Swiss precision

The project sequence, from acceptance and initial training in December in Bitburg at which the machine operators participated, to the start of installation, which began before Christmas, commis-



sioning and training, was planned exactly with the renowned Swiss precision and accurately executed by the STEMA/PEDAX service group. Sacha Berger, our technician for Switzerland, managed the on site installation until start of production. This work included training of the operators who are of Italian, Portuguese and Swiss origin.

This was not an easy task, since there were six trucks with machines and system components forwarded from Bitburg and at times there were several technicians working on site, who were coordinated from Bitburg by Markus Barthen, our service manager. Of course, our people were supported by the JOOS employees and in particular, Fredy Knaus. Otherwise we would not have been able to meet the strict deadlines.

As usual things worked very well with JOOS AG: The production is running and the performance is right.

FORTHCOMING EXHIBITIONS**IBF - The Building Fairs Brno**

Again this year STEMA/PEDAX is participating in the building fairs Brno – "IBF" together with our agent Jami Praha s.r.o. Some 1.500 exhibitors are coming from all over the world. This year the fair expects over one hundred thousand visitors. Please come by and visit us at stand 15K in the days 17th to 21st April 2007.

The BAUMA in Munich

which takes place every three years and is the largest building and building machine trade fair of all, assumes particular importance this year. You are cordially invited to this event. For the first time, the BAUMA takes place in the last week of April 2007, from 23rd to 29th.

A visit is a MUST for specialists, particularly if they are involved with the processing of concrete reinforcing steel, because here you can get a view of the whole industry. STEMA/PEDAX will be showing the latest developments in machines and equipment with convincing ideas and offering solutions for even more effective and economic production. Please come by and visit our stand in Hall C3 - 309.

Construmat Spain

International Building Exhibition In co-operation with our agent in Spain, I.P. Ingenieria de Producción S.L., STEMA/PEDAX is participating in the exhibition "Construmat Spain" in the days 14th to 19th May 2007. The exhibition is expecting at least 245.000 visitors and will have 4.500 exhibitors on its approximately 160.000 square meter floor space. The booth space for STEMA/PEDAX will be 100 square meters. Please come by and visit our stand C28.

AUTOSTRADA 2007

STEMA/PEDAX is participating in the International Fair of Road Construction Industry "AUTOSTRADA-POLSKA" at the Kielce Trade Fair in the days 16th to 18th May 2007.

STEMA/PEDAX will show the TWINMASTER 16 II with double-bending unit, trolley and pay-off reels placed at our stand. There will be about 600 exhibitors this year.

Please come by and visit our stand in Pavilion C, No. 64 on Autostrada-Polska 2007.

NEW PRODUCT

TWINMASTER 16 SX+

By Ulrich Deichmann

A new member of the STEMA/PEDAX Servo family is now being introduced. The TWINMASTER 16 SX+ is working twin-strand up to Ø 12,7 mm or single Ø 16 mm features with high speed and accuracy along with extremely low maintenance costs combined with maximum uptime in any production environment.

The TWINMASTER 16 SX+ is equipped with an automatic system for fast and automatic adjustment for both straightening units when changing wire. The Anti-Twist System ensures perfect clos-

ing of stirrups and combined with **joy-sticks** the possibility of fine tuning of wire adjustments, the best straightening results on the market today are thereby achieved.

Open and closed bar collectors up to 6, 9 or 12 m length are available along with many other accessories.

The TWINMASTER 16 SX+ is equipped with the latest servo technology from Bosch-Rexroth and the user-friendly Linux based production programmes are integrated in the industrial PC. Advantages of the 16 SX+ include ease of maintenance and low-noise impact.



World of Concrete 2007 in Las Vegas

By Per Meincke

Again in January 2007, STEMA/PEDAX participated in WOC - World Of Concrete - in Las Vegas, Nevada, USA. WOC is the largest tradeshow for the building industry in North America and was again this year very well visited. This year STEMA/PEDAX showed the new and unique B-MASTER, automatic bending machine for full automatic bending of bars up to Ø 32 mm. Also the new servo driven TWINMASTER 16 S+ was displayed. Both machine types are new in the US market and were received very well by new and existing customers. A new shearline concept, Cutmaster, was also introduced and sparked a lot of interest from customers. STEMA/PEDAX US distributor - Penntech Industrial Tools - together with the STEMA/PEDAX staff had a busy 3½ show days.



BIG 5 Show Dubai

By Husaini Diwan

With construction booming in the UAE and in particular Dubai, there seems to be no letting up in the activity at the BIG 5 show held in Dubai last year. An entire hall was devoted to German companies. For 7 consecutive years, STEMA/PEDAX has exhibited its products in the German pavilion in Zabeel hall. We have quite a large number of customers in the Gulf area, some of who visited us during the show. We introduced our machine concepts like the PILEMASTER, new PERFEKT Bending machine with CC control and the PERMATIC N along with the new stirrup machine TWINMASTER 16 S+.



CASE STORY

Glanemann in Legden We bring steel into shape

By Rolf Klein

Tradition, Expansion and Innovation: are three terms, which symbolise Glanemann, a company that has been in existence since 1920.

Since moving to their location in the Neue Mühle industrial estate in Legden in 1988, the production area has been expanded to 7000 m² in four construction phases. Just now – at the beginning of 2007 – a further 2000 sqm of production area and 5000 sqm of external storage space were added. The office was extended by 400 sqm.

Since 1984 Stefan Heeks, as Managing Partner, has been leading the skills of the company. In the company management, he is accompanied by the two assistant managers Thomas Bultmann and Ludger Soete.

PC controlled stirrup, straightening and

cutting machines with optimised cutting and shorter processing times are available for reinforcing steel processing. Glanemann is certified in Germany (Ü mark) and The Netherlands (KOMO) for processing reinforcing steel.

State of the art technology, extensive stock and a wide product range guarantee high quality and fast order execution.

The high performance fleet of machines, which can be matched to customer needs on special request, together with an excellent infrastructure guarantees that the flexibility that is needed to react quickly and individually to customers needs is there.

The machine fleet was also upgraded and expanded for future needs together with the new building and the extension of the production halls.



B-MASTER 32 at Glanemann, Germany

Of course Glanemann uses a stirrup bending machine, a straightening machine and a bar cutting machine for the processing of reinforcing steel. The needed production capacity is achieved with significant performance increases in the bar processing and reinforcing steel mat areas.

A new METAX G model of bar cutting machine was procured for this purpose. It is very impressive with its unique measurement and drawing system and particularly high cutting performance, with 140 mm cut width, and its high measurement and drawing speed of up to 150 m / min. Now one has two mobile bar cutting machines available at the same time, which ensures that there is enough capacity and reaction capability available to be flexible in the future.

The bending capability has also been

increased significantly. A B-MASTER from STEMA/PEDAX has been in use for this since January, which carries out automatic and of hence much easier bending of transversely fed bars which are cut to length, naturally with more flexibility and performance for bending bars up to 32 mms in diameter.

The mat processing and the improved overall logistics are kept. A high performance MAFIX guillotine shear and a MAFIX mat advancing machine were procured for the processing of mats.

The expansion has sweeping effects on the production output and logistics – for example with more storage area available and much shorter loading and unloading times – and thus ensures a significant improvement in all areas. Glanemann is well positioned to meet the challenges.



CASE STORY

ALAM Steel Industries – Dubai

By Husaini Diwan

Alam Trading Company is a major steel trading firm in reinforcement and structural steel in Dubai, has a recently commissioned a state-of-the-art cut and bent factory in Dubai, supplied by STEMA/PEDAX.

The factory has a very efficient layout in terms of material handling from the raw material feeding stage to the finished products. It has also capability to offer the full range of reinforcement solutions including welded pile cages.

The layout is a linear system where the material after shearing is distributed to numbers of stations according to its final usage, either it is fixed length or it need to be bent by automatic bending machines or by a single bending machine. It also has a buffer storage and sufficient

collecting pocket to allow high level of material optimisation, and scrap level is expected to be around 1 %.

The main shearing and bending activity is complimented by heavy duty TWINMASTER stirrup machines and pile cage machine – PILEMASTER – so as to supply all the prefabricated rebar needs of a construction site.

One of the CADORMATIC 500 Shearline



Alam Steel's new factory in Dubai



SERVICE NEWS

Thorsten Langhanki reinforces STEMA/PEDAX Hotline



The STEMA/PEDAX Service Team in Bitburg has been reinforced. Thorsten Langhanki has been supporting us at our headquarters since the beginning of year. Thorsten has a technical education and studied electrical and mechanical engineering in Trier. He worked as an apprentice in our assembly area during his studies. Hence, he is an excellent fit for our

team and already has a high level of skills.

Therefore the Bitburg Service group is even better positioned to offer you a customer benefit in terms of queries, solving technical problems or ordering tools or spare parts, with expert advice and fast response times.

STEMA/PEDAX in Turkey

By Husaini Diwan

STEMA/PEDAX recently sold its new stirrup machine TWINMASTER 16 S+ to BMS Hazir Demir in Istanbul. After its initial trials and commissioning the machine was integrated into the overall production of the company. The company is efficiently managed by Mr Bahattin Bilgin, General Manager, a veteran in the Turkish cut and bent market.



Mr Hakan Dost, managing director of Iscelik Celik Hasir and Mr Sertac Dabakoglu, Turkey

STEMA/PEDAX has stepped up its presence in the Turkish market in cooperation with Mr Hakan Dost, Managing Director of Iscelik Celik Hasir (HAD), who is our agent and service provider. He also has several years of experience in the Turkish cut and bent market.

Mr Hakan Dost is supported by his skilled team of Mr Dabakoglu and Mr Tuner for sales, marketing and after sales ser-

vice of STEMA/PEDAX products. They also have an infrastructure in the form of engineers, logistics and spare-parts warehousing. They are planning more marketing campaigns for our machines this year.

NEW PRODUCT

New: CUTMASTER stationary cutting equipment

By Rolf Klein

Now STEMA/PEDAX offers the new CUTMASTER which is distinguished by its powerful stationary cutting unit and new unique high quality positioning and measuring system as well as its particularly good price to performance ratio.

One generally differentiates between two concepts when it comes to stationary concrete reinforcing steel cutting equipment, which can be seen in the different ways they measure:

1. Measuring track with multiple length stops and a mobile concrete reinforcing steel shears.
2. Measuring track with a mobile length stop and a stationary cutting machine.

However, the new CUTMASTER is equipped with a measurement system, consisting of a conveyor belt for longitudinal transport and longitudinal positioning. The measurement system is made from a rigid supporting framework. This means that cut material can be positioned arbitrarily and kicked-off on the left or right hand side.

The conveyor belt works very precisely

and is extremely quiet. New and important are the concrete reinforcing steel shears, which have been developed using reliable basic components and designed to cut from the bottom upwards. The elaborate holding clamps and the track lowering that were necessary when using shears that cut from the top downwards, have been eliminated.

The shears are hydraulically operated. With 300 mm cutting width the new shear has outstanding characteristics High performance hydraulic units from Bosch Rexroth are used here just like on all STEMA/PEDAX cutting equipment. CUTMASTER cutting equipment is made from various modules. This allows for optimised layout of the total system by taking spatial and production circumstances into consideration. CUTMASTER cutting equipment consists of:

- Material storage racks, with the choice of one, two or three levels; thus allowing for the storage of up to six different diameters in the case of a double-sided arrangement.
- A feed track with 300 mm track width and a concrete reinforcing steel transfer system that is swung pneumatically over the track.

- A new shear as described that cuts from the bottom upwards and which is equipped with a high performance hydraulic system.
- A Siemens controller with touch panel and a one hand joystick for all functions.
- The new STEMA/PEDAX positioning track with measuring track. Designed

- for nick off of the cut material on the left or right hand side.
- Storage in STEMA/PEDAX collection bins, with choice of manual or automatic guide systems.

With the new CUTMASTER, STEMA/PEDAX offers you an innovative and high capacity shear-line at an attractive price.



CASE STORY

Poland Alloys Group = Budserwis + CSM + ZNT

By Rafal Sankowski

In 2001 the rebar shop Budserwis was established in Wroclaw, to cover the



southwestern part of Poland. In addition, the rebar shop CSM, which is located in the Gdynia, was established to cover the northern part of the country. ZTM is a plant located in Slawków. Separately they were too small to cover the entire Polish market, but in 2006 Poland Alloys Group was established by Mr Roman Luczak, which integrated Budserwis, CSM and ZTM under one name.

ZTM is producing cold rolled coils and wire mesh. The merge of the three companies has made the unit bigger and stronger and their sales offices are now located in most major cities. Their relationship to the main steel and machines suppliers has been considerably strengthened. At the end of 2006 CSM extended their production facility by adding a STEMA/PEDAX PERMATIC N and Budserwis was equipped with a fully automatic CADORMATIC 300 and a stirrup bender TWINMASTER 16 II with a double bender unit.

According to Mr Maciejewski "The best success factor you can achieve is not only a big cutting possibility but also how fast you can pull material and take it out after the cutting process. STEMA/PEDAX can deliver a full functioning system" which is integrated and controlled by their software". Mr. Maciejewski says, "people that visit my plant could not believe that by using one METAX N, we were able to produce 1500 t/per month." He emphasizes that not only the cutting possibility but also the collecting pockets, conveyors with the kick off, the chain conveyors are equally important. Now he is having a CADORMATIC 300, which is fully integrated with the existing transport and collection systems, and together with a METAX N and the new TWINMASTER 16 II with double bender is giving the company high productivity. All this adds up to a flexible work process, which fulfils any customer needs.

NEW EMPLOYEES

STEMA/PEDAX has employed Henrik Rantzow as a new Area Sales Manager. Henrik, a Swedish native, will be responsible for all Spanish-speaking areas along with Australia/New Zealand and Sweden. Henrik has many years of experience from industrial machine sales with particular focus on Spain and South America. We welcome Henrik to the STEMA/PEDAX team and look forward to having him serve our existing and new customers in his areas.



Henrik Rantzow

Lisbeth Bang started working as a Service Coordinator at STEMA/PEDAX in November 2006. Her responsibility is mainly sales of spare-part, planning of the service jobs and installations in the Scandinavian area. She is as well responsible for the handling of spare-part orders. We welcome her on the STEMA/PEDAX team. Before her appointment at STEMA/PEDAX she had worked in a large fabrication company in the northeastern part of Denmark. Her tasks there were sales of spare-parts, order handling, complaints and the maintenance of part lists.



Lisbeth Bang

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STEMA/PEDAX in India

By Husaini Diwan

As one of the few economies in the world, India is reaching a growth level of 10% per annum. This has resulted in a construction boom.

Mrs Mehrun Huseini and Mr Ammaar Huseini



We sold our first machine to Tata Reyerson in India in year 2005. We did it in partnership with our Indian agent Chevron Metals Products Pvt. Ltd. Mumbai. We are introducing a range of new product solutions in the cut and bent industry in India.

Chevron Metals Products Pvt. Ltd. is managed by Mrs Mehrun Huseini and Mr Ammaar Huseini, who have several years of experience in providing steel fabrication services to the construction sector in India. We are planning to increase our service level to be prompt in providing back-up for our machines in the market.

Tata Reyerson India, Delhi



CASE STORY

BILDSCO – PILEMASTER – Heavy Duty Work at Site

By Husaini Diwan

BILDSCO, a Abu Dhabi based company, is an old and established name in supply of building materials in the UAE for the last two decades. They have a rebar cut and bent factory in both Abu Dhabi and Dubai. STEMA/PEDAX has been working with them for the last 6 years supplying them with machines for their ever-growing production demand.

Recently, BILDSCO installed the new pile cage machine PILEMASTER from STEMA/PEDAX at one site in Dubai. The task was to produce a large diameter pile cage with 32 mm diameter rebar altogether 44 nos. in one pile cage. We worked with their design team to develop the template, which could handle the complicated design and was able to produce the pile cage as requested by the client.

PILEMASTER on-site in Dubai.



Since October 2006 John Fullerton has worked as Service Coordinator at STEMA/PEDAX. His tasks are planning of installations and service jobs, hotline and spare part sales. John is mainly working with the English-speaking customers. We welcome him on the STEMA/PEDAX team. Before his appointment at STEMA/PEDAX he has worked in a similar position at ABB where he was responsible for installation and maintenance at large-scale customers.



John Fullerton

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Since January 2007 Thor Lundgreen has been working as a Service Engineer at STEMA/PEDAX. His main working areas are going to be Scandinavia and the rest of Europe. We welcome him on the STEMA/PEDAX team. Since 1998 Thor has worked as a Maintenance Engineer at Fundia in Denmark, where he dealt with repairs and maintenance of their machines. Furthermore he was responsible for the sparepart stock.



Thor Lundgreen

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