Marathon Man

We have often reported on Switzerland and on projects which we have been able to realise, in co-operation with Swiss customers and with our Swiss representative, Andreas Jaberg. Andreas Jaberg has been supporting our customer base for over 10 years with his proverbial 'Swiss precision and endurance'.

He obtains the required fitness for that from sport or, to be more exact, from long-distance running. He belongs meanwhile to those participants who regularly run in the 'Zurich marathon'. The photo is from 2005. It rained cats and dogs that year and he didn't look quite so good. He hasn't let on what his times are, but we're sure that he is continually improving them.

Andreas Jaberg left: He runs as if on trails and stay on track.

Pilemaster – welding machine in action

The new Pilemaster pile cage machines from **STEMA/PEDAX** have established themselves on the market in the shortest time and have gained an outstanding reputation: they stand out due to a particularly stable construction, convincing control technology, an robust welding robot and Esab welding technology.

A few weeks ago, the **STEMA/PEDAX** marketing team began with the shooting and production of a film to enable the advantages of the Pilemaster machines to be shown in action. The film was shot with a professional team from Zurich, supported by the customers, Ero Frikart in Olten, Switzerland.

Pilemaster in the Middle East

With the successful launch of the Pilemaster in 2005, a heavy duty and productive pile cage machine made by **STEMA/PEDAX**, **STEMA/PEDAX** has supplied these machines to many customers in the Middle East.

One of the first machines was delivered in 2005 to Al Ali Reinforcement in Bahrain. It has been operating around the clock making pile cages in diameter from 200 mm up to 1500 mm and in lenght up to 12 m. The spiral around the pile cage are welded automatically by using a welding robot.

STEMA/PEDAX has supplied these machines to Al Jaber Est. Abu Dhabi in 2006, and with many more machines in the area, has validated the quality and the reliability of the machines, which are being built using high quality components.

New Service Engineer in Australia, New Zealand and the Far East

STEMA/PEDAX now has a new Service Engineer in Australia, New Zealand and the Far East. It is our own Service Engineer of 5 years, Mr Jan Elze, who moved to Brisbane with his family and who will be responsible for all hotline and service on **STEMA/PEDAX** machines in Australia. At the same time he will function as a backup and hotline for customers in the Far East and in New Zealand.

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New Service Engineer in Germany

Mike Zeuner has been employed as a Service Engineer at **STEMA/PEDAX** since 1st June 2006. He will primarily cover the middle and southern areas of Germany. His qualifications include 15 years as a precision mechanic in a rebar shop using **STEMA/PEDAX** machines

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New Service Engineer in Poland

Since September 2006 **STEMA/PEDAX** has had a new Service Engineer in Poland. It is Tomasz Fraczek, an electromechanically engineer by education.

His task is to relieve the Danish service engineer's duties in the expanding new market of Poland, the Baltic countries and the Ukraine. Tomasz Fraczek will be based in Katowice, Poland, and from here serve all our customers in Poland.

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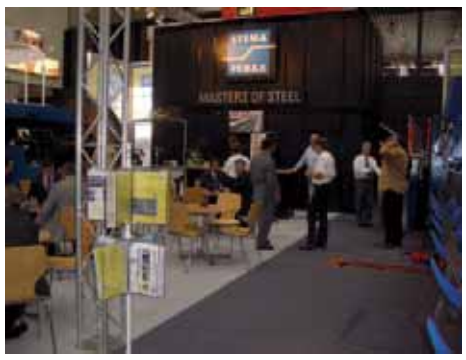
WIRE in Düsseldorf

Wire, the International Trade Fair for Wire and Cable, ended on 28th April after five exhibition days with its second-best result since its premiere in 1986.
1101 companies from 49 countries came to the Rhine to present new machines, equipment, methods and products from the wire and cable production and processing branches.
Of the 65,583 visitors to the Wire and Tube trade fairs, the Wire alone was visited by 37,000 trade fair guests. Wire attained the highest foreign share with 58 % of its visitors being international.

At least according to the Düsseldorf Trade Fair Company's official announcement, which we can only confirm.

STEMA/PEDAX was in Düsseldorf with its newest developments. The centre of attention at the exhibition was the Twinmaster 16 S+, a powerful stirrup bending machine for the treatment of reinforcing steel made from coils up to 16 mm in diameter, which stands out due to its modern servo technology and convinces with outstanding value-for-money.



Much attention was drawn by the B-Master, a bending machine for reinforcing steel made from bars, which was particularly convincing and was shown for the first time with a robot that grips the bent shapes and deposits them neatly on the floor.

Also in action: the Twinmaster 16 II, built up as a processing centre and equipped with a double bending machine. This enables the equipment to accomplish all usual production tasks up to a diameter range of 16 mm: regardless of whether stirrups, large shapes with double bends or cleanly straightened lengths are called for.

Internationally, **STEMA/PEDAX** was represented in Brno in the Czech Republic; in Bucharest, Romania at the Construct Expo; and in Poland at the Autostrada. The trade fair in Plovdiv, Bulgaria, was particularly successful, with an outstanding turnover and many contacts.

In keeping with tradition, we were naturally also represented in October at the Big 5 in Dubai, a trade fair in what is probably our most important market.

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NEWSLETTER

Volume **2** 2006

CASE STORY

Andami

Founded in 1992, Andami is a company funded fully by Romanian capital and is one of the biggest stockholders and distributors of metallurgical products and construction materials in Romania.

Andami's most important activities are:
-Trade and distribution of metallurgical products and construction materials (Hereunder reinforcing steel in coil and bar)
-Metal processing services (Hereunder processing of reinforcing steel)
-Transport and logistical services
-Projection and developing of civil buildings

Andami was already equipped with a rebar factory from an Italian supplier.

However, in 2005, the owner Mr. Mircioiu decided that due to the growing demand of rebar in the Bucharest area Andami needed more capacity in this field.

The choice very naturally fell on **STEMA/PEDAX** and in the winter 2005 Mr. Mircioiu, together with our agent for Romania, Mr. Cezar Dinescu, visited various big rebar factories in Switzerland, all equipped with state-of-the-art **STEMA/PEDAX** equipment.

The visit in Switzerland was of course rather convincing and also served to give Andami some ideas on how to solve the logistics problems in their hall.

The contract between Andami and **STEMA/PEDAX** was signed by the end of 2005 and in March 2006 the machines were installed into the existing rebar shop.

The choice was one Twinmaster 16 II fully automatic stirrup bending machine with 12 m double bending system and a Combiline G high capacity shear line equipped with the latest Permatic N – double bending system.

The machines have since the installation been running more or less around the clock and already have an impressive number of production hours on the clock.

Many Romanian construction companies have already been delivered reinforcing steel from Andami, manufactured on **STEMA/PEDAX** machines with high quality.

Apart from the obvious quality of the machines, a decisive factor for Andami has also been the very efficient service of **STEMA/PEDAX**, now also with own local service in Romania assuring a minimum of down time in case of trouble with the machines.

CASE STORY

DROZAPOL-PROFIL S.A.

The steel market boom starting in 2004 has also reached Poland. Independent sources estimate that the Polish steel market is developing at nearly twice the average world rate.

Furthermore, steel traders and dealers have come to realise that selling cheap, simple material without any processing is not sufficiently profitable. Nowadays customers have greater expectation with regards to quality, marking and delivery. Just a few years ago raw steel was delivered as straight bars on the construction site and processed on site, but today both domestic and foreign construction companies order cut and bent steel. This is to increase efficiency, as they need more time and space to prepare rebars on site.

To keep up with customers requirements DROZAPOL-PROFIL S.A. has built a new rebar shop. In their opinion it is the best way to sell rebars in the future. The new plant is located in Bydgoszcz; 1500 m² under one roof and fully equipped with **STEMA/PEDAX** machines.

The coil process is operated by a Twinmaster 16 S+ machine, which can work with wires up to Ø 16 mm. It is equipped with automatic straightening units, which are controlled by joy-sticks and an anti-twist system to assure closed stirrups. A Metax G shear line, chosen for its unique pulling and cutting system, carries out the processing of bars. The bending process is performed by a double bender Permatic N and Perfekt machines.

But single machines were not enough for DROZAPOL-PROFIL S.A. They required a complete solution and that is why **STEMA/PEDAX** as a market leader in creating rebar factories, delivered bending tables, conveyors, collecting pockets and optimization software, Labelmaster. This made the production process faster and at the same time reduced costs.

Processing of steel is the future and selling of non-processed, simple materials belongs to the past. That is the reason why having a rebar shop was necessary for DROZAPOL-PROFIL S.A if they wanted to keep and develop their market position.

World of Concrete 2007 in Las Vegas

Again this year, **STEMA/PEDAX** in cooperation with Penntech Industrial Tools, will participate in the fairs WOC 2007. In contrast to last year the booth will be considerable larger and the exhibition will contain machines such as B-Master, Twinmaster 16 S+ with 2 pay-off reels, Perfekt 50 CC bending machine and a Simplex 45 H Rebar Shearing Machine.

WORLD OF CONCRETE®
WORLD OF MASONRY | TECHNOLOGY FOR CONSTRUCTION

Please come by and visit our booth N3125 on the WOC 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 in the coming 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 concerned with the processing of concrete steel, because here you can get a view of the whole picture.

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.

bauma 2007

Please come by and visit our stand in Hall C3 - 309.

NEW PRODUCT

B-Master with Robot

The B- Master bending machine is proving itself more and more in practical operation. Complicated bending shapes can be quickly and easily defined and then automatically produced. Just one operator can accomplish work which previously required 2 or more persons.

Modern servo technology ensures the rapid flow of processes and a precision that was previously only attainable with considerable expenditure and very experienced operators. It turns even newcomers with hardly any experience into fully-fledged bending specialists.

The B-Master fits into the material flow which is specified in most factories. The material to be bent comes from optimized cutted bars and is then bent automatically. Production data can be read directly from a label by using a laser scanner, uploading the relevant production planning. Repeated entry of production data is thus no longer necessary and possible sources of error are excluded.

If desired, the B-Master can be supplemented by a robot, which picks up the bent shapes with a stable gripping system and places them neatly in a collection system. This robot works most economically when many small and medium-sized bent shapes must be produced in large quantities.

With the B-Master system, together with improved material handling and the possibility to integrate existing machines and equipment logistics, the bending of bars can be carried out effectively, precisely and in particular, economically.

NEW PRODUCT

Twinmaster 12 SX+

STEMA/PEDAX is proud to present a new automatic stirrup machine, the Twinmaster 12 SX+. The basic machine is based on the well-known Twinmaster 12 S, which has been sold successfully since 2004 to more than 100 customers world-wide. The Twinmaster SX+ includes an integrated pre-feeding unit, an automatic straightening system, which is controlled by joysticks, and a more powerful Bosch Servo motor for the bending unit.

Each joystick has full control of the 2 wires, as the last roller in each straightening unit is split and each groove controlled by an electrical spindle motor which is connected to 2 joysticks.

So when the joystick is moved up ⬆ wire goes up –
When moved down ⬇ wire goes down –
When moved sideways ⬅➡ wire goes either right or left.

A simple and logical system which has been standard on **STEMA/PEDAX** fully automatic stirrup machines since 1999. In the standard version 12 S the general setting of the straightening unit is done by exchanging the quick-jig – a well known and proven system from the basic version 12 S, and 2 joy-sticks control the last splitted roller.

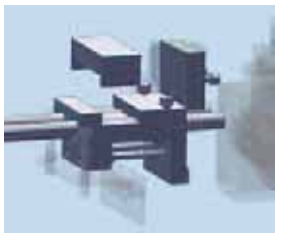
As a further option both straightening units can be upgraded to a fully automatic system, which is electronically controlled by joy-sticks. All rollers are adjusted individually by an electrical spindle motor that can be programmed according to the wire and wire quality used. So even wire of poor quality can be treated in a special way and improve the finished result.

A wire change is done in less than 2 minutes, as the rollers adjust automatically to the last memorized position when running that particular diameter, and the pre-feed unit runs smoothly the wire out and into the machine.

CASE STORY

Cutting equipment for the exact shearing of reinforcing steel

Mini - Shearline for special tasks



The Mini-Shearline belongs to the family of stationary cutting systems, which are comprised of tried and tested elements and adapted to the customer's individual wishes. The **STEMA/PEDAX** modular construction system offers options for adaptation to room conditions and the special problem definition in production. Originally designed for bending and prefabrication works, Mini-Shearline systems have found new areas of application in various works and for special tasks.

STEMA/PEDAX cutting equipment has often been combined with band saws. The solution, whereby production can be carried out alternatively with a shear or with a saw, is also interesting.

Modular system for made-to-measure solutions
A Mini-Shearline is comprised of a material magazine with a varying number of compartments, a feeding track, a hydraulically driven cutting machine from the SIMPLEX range, a measuring track with a high-precision length stop that is positioned via a toothed rack, and a box system for receiving the cut lengths of reinforcing steel.

Exact shearing of reinforcing steel
For the further processing of reinforcing steel, for example for components which are used in the prefabrication industry, our customer PEIKKO wished to have cut lengths with virtually smooth and angularly exact cut surfaces.

STEMA/PEDAX has developed a cutting system for this purpose that works with profiled cutting tools. For each steel diameter there is a cutter set that encompasses the steel exactly at the moment of cutting. The distortion of the steel that inevitably arises from the use of straight cutters is thus reduced. The cut surfaces are exactly angularly aligned. The cut lengths can be cleanly welded in an automatic process without any additional work steps.

Who is PEIKKO?

PEIKKO® Deutschland GmbH is a subsidiary of the Finish company PEIKKO® Finland Oy, the Scandinavian market leader in fastening technology for prefabricated steel-reinforced concrete products. PEIKKO® has further branches in Norway, Sweden, Lithuania, Poland, Benelux, Austria, Italy, Spain, Slovakia, the Czech Republic, Denmark, Great Britain and Russia.

The range of products includes steel mounting parts for concrete and reinforced concrete structures such as consoles, anchor plates, anchor bolts, punching shear reinforcements, column support shoes and wall support shoes (PEIKKO® System) In addition joists, supports and structural steel are also manufactured.
A high-performance production facility is located at PEIKKO Deutschland GmbH's Waldeck – Höringhausen site, which has been systematically and continually expanded and modernised over the past years.

CASE STORY

An anaconda in Switzerland

The date is 3rd January 2006. At Stierli Steel in Nänikon, the new concrete steel cutting and bending plant, which was delivered punctually in December and assembled in the shortest possible time between Christmas and New Year, is started and production operation begins.

The new plant, which was dubbed 'anaconda', is comprised of a **STEMA/PEDAX** Combiline with precisely adapted conveyor installations, a transverse chain conveyor, a box system for fixed lengths and a pocket system for the chaotic feeding of the Permatic-N double bending plant.

The plant concept was planned in cooperation with the responsible people from Stierli: Wolfgang Etschmann, who is responsible for the building profit centre, and Richard Caminada, who is the manager of the bending shop. Right up to the signing of contracts, several suggested layouts were discussed and adapted until the space was utilised correctly and the existing machines fitted into the concept. Once again, **STEMA/PEDAX** was able to convince with a concept that combines performance with the desired flexibility.

COMBILINE cutting equipment
The bar processing plant called 'anaconda', which was developed on the basis of the tried and tested Combiline systems, comprises:

- A moveable reinforcing steel stock with 9 storage boxes for 20 m long reinforcing steel. As is usual in Switzerland, steel deliveries to Stierli are made by rail.
- A Combiline-G, functioning as a traction, measuring and cutting system, with 2.5 m/s transport speed and 140 mm cutting width.
- A transverse chain conveyor for receiving off-cuts and custom lengths, which are then transferred to a distribution wagon for reuse.
- Transport tracks for the longitudinal transport, collection boxes with six compartments, a pocket system for the bars to be bent, and a Permatic-N double-bending machine.

Combiline cutting plants can be individually constructed and combined, as the Stierli concept shows. At the same time, they combine the advantages of the flexibility of mobile cutting equipment with the large performance that is otherwise only possible with stationary plants. With the Combiline-G, a cutting capacity of up to 40 t/shift is possible. Naturally the performance is dependent on the spread of the diameters, the number of pieces per position and the works-internal structure; the crane capacities, the truck loading areas and the picking and storage possibilities are thereby important for the throughput performance.

PERMATIC-N double bender
The Permatic-N double bender is connected to the conveyor and distribution system. Bending lengths are thereby collected in a pocket system offering four compartments and working on the chaotic principle. The compartments, or rather the four pockets, can be emptied in an arbitrary order and fed to the double-bending machine.

The Permatic-N has a roller conveyor and a lever system for easy insertion of the steel to be bent.

New TWINMASTER processing centre
STEMA/PEDAX meanwhile supplies a Twinmaster processing centre for the reinforcing steel processing of coils. This has enabled both economy and performance to be further improved.

The centre is comprised of the proven Twinmaster 16 II, with a stress release feeding unit, with automatically adjustable straightening units and with the patented anti-twist device for outstanding straightening results and exactly aligned shapes, in addition driven payoff reels, a double-bending unit which has its own dedicated drive and a second bending head, and a collection trolley for receiving the bent shapes or straightened lengths.

This plant was dubbed 'COBRA'. Wolfgang Etschmann gives every production plant an interesting name from the animal world, in alphabetical order. Unfortunately, we haven't asked him the meaning of the names. In the case of the anaconda, it's probably the sinuous length and the power hidden behind it.

STIERLI AG Steel Trading

STIERLI AG Steel Trading is a leading dealer in the branches of steel & metal, building products and building services, which has made a name for itself in the business area of Zurich and the adjoining areas. Over 100 years of company history lead back to the year of its foundation in 1894, when Placidus Stierli founded the Fäh + Stierli company with a partner in Zurich.

Today, the company is divided into three areas: 'steel and metal', 'building products' and 'building services'.
Each profit centre is comprised of a well-rehearsed, market-oriented team of experts, who know the customers' wishes and, as a powerful partner, offer solutions for their provision with their know-how and flexibility and STIERLI AG's wide range of products.

Today, Stierli AG belongs to the Basel-based SPAETER Group, which is one of the well-known companies belonging to **STEMA/PEDAX**'s customer base.