



wcn

Autumn 2016 : Issue 55

Wire & Cable News

Newsletter of the International Wire & Machinery Association



*wire
China*

*Wire &
Cable
India*

**Show
previews**

PLUS:

Member news • wire Düsseldorf 2016 report • CPR legislation update

Association news

New search portal for members	2
Golf day report	2
Chairman's welcome	3
CabWire 2017: date confirmed	3
Annual dinner dance	3
IWMA website members' area	4
Events diary	5
IWMA exhibition support	11
Full list of corporate members	14
IWMA Educational Trust feature	27
New members	28

wire Düsseldorf: show report

Show report	20-21
Alloy Wire International	23
Bar Products & Services Ltd	23
Cimtec Ltd	23
GURFIL Sanayi ve Elektronik Cih. Paz. AS	23
Maschinenfabrik Niehoff GmbH & Co KG	23
Maillefer	22
Rosendahl Nextrom GmbH	22
Zeller + Gmelin GmbH & Co KG	22

Member news

Alloy Wire International	5
Cable Tapes Ltd	4
Eder Engineering GmbH	4
Joachim Uhing GmbH & Co. KG	5
Leoni Draht GmbH & Co KG	13
Madem SA	13
Metalube Ltd	4
Oden Technologies	12
Plasmait GmbH	12
Zumbach Electronic AG	13

wire China show preview

Introduction from Axel Bartkus	6
List of exhibiting IWMA member companies	10

Ajex & Turner Wire Dies Co	8
August Strecker GmbH & Co KG	9
Gauder SA	7
Hans Schmidt & Co GmbH	8
IWMA	7
Maillefer	9
Maschinenfabrik Niehoff GmbH & Co KG	9
Queins Machines GmbH	7
Reber Systematic GmbH & Co. KG	8
RichardsApex Inc	7
Rosendahl Nextrom GmbH	10
Troester GmbH & Co KG	8

Wire & Cable India show preview

Introduction from Thomas Schlitt	16
List of exhibiting IWMA member companies	18

Ajex & Turner Wire Dies Co	19
August Strecker GmbH & Co KG	16
Maillefer	17
Maschinenfabrik Niehoff GmbH & Co KG	19
Rosendahl Nextrom GmbH	18

Technical

FIB Belgium SA:	
<i>Open fire furnaces - a new concept</i>	<i>24</i>
BASEC (British Approvals Service for Cables), UK:	
<i>New cable fire resistance regulations</i>	<i>26</i>

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New search portal for members

SINCE July 2016, the IWMA has been partnering with **Metsearch**, an internet portal for the metals industry created by the IWMA's industry partner Messe Düsseldorf.

Metsearch's wire and cable industry category is to include IWMA branding and each member company page will include an IWMA member badge.

"The IWMA is always looking for ways to extend and improve membership benefits," explained executive manager Andy Lewis.

Metsearch (www.metsearch.net) offers comprehensive international company and product information for the wire and cable industry. Users can locate specific products, complex machines or find a particular company and check on the trade fairs at which it will be exhibiting.

Metsearch also continually updates company and industry news, including *topic of the month*, where users can discover the latest topics and innovations being discussed within the industry.

"Metsearch is a modern, user-friendly and comprehensive service that gives members access to valuable industry information," continued Andy.

"Members will find the portal familiar; much of the database information is already in place and the codes match those used in the catalogues for the international wire and cable exhibitions organised by Messe.

"Members can access the directory through the IWMA or the Messe Düsseldorf websites, or through search engines."



IWMA golf tournament – well above par

ON ONE of the hottest days of the year, in June, IWMA members and their guests enjoyed an entertaining day at the association's annual golf tournament.

The event, at Fairhaven championship golf course at Lytham St Annes, is one of the IWMA's most popular networking events.

Players began with a fortifying breakfast of bacon rolls before taking to the course and at day's end the results were close: Jez Alston from Metalube's team took the chairman's cup for best member-score.

Gary Kelly from the IST was runner-up, while Ben McNamara of Copperweld Bimetallics took third-place.

Guests didn't leave without prizes either; for the second year, Ian Deuchars of Handelsbanken took the guest shield for best guest score. Ian Nesbit of

Global Wire was runner-up, with Frank Dearnaley of Brand Rex, in third place.

Don Neville of RichardsApex Europe Ltd won the longest drive and TWOs. The day concluded with a formal dinner at the nearby Glendower hotel, when the IWMA's Peter Large presented the prizes. He thanked Interlink Import-Export Ltd, RichardsApex Europe Ltd, Cable Tapes UK Ltd and Bar Products & Services Ltd for sponsoring the day's prizes.

"It was a marvellous day; fantastic weather, great company and a fine day's golf," he said. "What more could we ask for? We hope to see a strong turn-out again next year."



CabWire 2017: date confirmed

CABWIRE World Conference will take place on 7 November, 2017 at the Congress Center in Düsseldorf, Germany.

The format will stay the same, with technical presentations from international speakers and a tabletop exhibition. This time the event will run in conjunction with the International Tube Association (ITA) conference.

"We're delighted to return to the Congress Center. It's a perfect venue and even better for this event as we'll be in a bigger space," explained IWMA executive manager, Andy Lewis.

"Working with the ITA enables us to expand the event and attract top speakers. We are also able to enhance the service we offer members, including sourcing the best deals on travel and accommodation."

The full itinerary will be announced later in the year.

"We are in touch with potential presenters," Andy continued. "We also want to hear from members who would like to submit their technical papers for consideration. They can contact me by email at andy@iwma.org or give me a call at the IWMA."

Partners please...

IT'S TIME to brush off your party gear and buff up your dancing shoes: the IWMA annual dinner dance is just around the corner.

The popular event at London's Royal Garden Hotel is always well attended and tickets sell quickly. If you'd like to reserve yours, contact the IWMA (see contact details on the events calendar on page 5).



In this issue

WELCOME to the latest issue of WCN, in which we look ahead to a busy autumn schedule with not one but two more major trade shows – *wire China* in Shanghai and *Wire & Cable India* in Mumbai, both industry centres showing growth despite industrial doldrums in other parts of the world.

I'm particularly looking forward to my first visit to the Mumbai show (5-7 October); we have a growing IWMA roster of companies from the sub-continent and it will be nice to put faces to some of the names. And it's always good to visit China (26-29 September), both a fascinating country and city and an extraordinarily energetic business community.

But that's for the autumn: what a year it's been so far!

The changes we have made to extend and brighten our services and facilities for members this year seem to be paying off in a big way.

Our new, larger and improved stand, with its better facilities for members, was introduced at Düsseldorf's huge *wire 2016* exhibition and was an immediate success. So far this year the IWMA has acquired a record 21 new member companies – you can see the full member list (at least at the time of printing) in our centre pages. Are your competitors there? You should be too! Find out more, and what other companies say about our services, on page 11 – and if you aren't already a member, get in touch and find out more.

Elsewhere in this issue we introduce Adam Burgess, who is studying hard to become the new metallurgist at the renowned Institute of Spring Technology in Sheffield. He is spending the next five years studying – with IWMA Educational Trust financial help – to take over the job of the IST's metallurgy specialist Margaret O'Malley, who retires next year after 40 years of problem solving and testing for IST members worldwide.

So the first half of the year has been hectic and the second half will bring a lot more work and travel to amazing foreign cities. Will we see you there?

Amanda Shehab

Chairman, International Wire & Machinery Association

Member News



Major Expansion for Metalube

SO FAR 2016 has been a stellar year for Metalube. To meet demand for its high quality lubricants, the company has expanded its Manchester headquarters by acquiring the adjacent industrial unit. The one hectare site has increased the size of the company's plant by over 70 per cent, to provide 2,500 sq. metres of factory, warehousing and office space alongside a state-of-the-art laboratory opened last year. At the same time, Metalube has opened an office in Dubai and signed an exclusive US distribution agreement with Indianapolis-based Fusion Chemical, a supplier of metal-working fluids and speciality chemicals to manufacturing industries across America. To cap an already excellent year, Metalube has received ISO 14001 certification: the international standard for environmental management systems (EMS) and the most widely used in the world. ISO14001 is the principal management system standard which specifies requirements for the formulation and maintenance of an EMS and helps control environmental aspect, reduce impacts and ensure legal compliance.

www.metalube.co.uk

Members only

THE IWMA is to launch a members' area on its website this autumn.

Members will be able to access past papers from technical conferences, legislation updates, industry news and business advice.

"Members will have access to the IWMA's vast wealth of technical knowledge and business expertise," explains IWMA executive manager Andy Lewis. "Members can network online, share best practice and find help to solve problems."

www.iwma.org

Twin workstations cut die reconditioning time

EDER-Austria has designed two special machines, each with two independent workstations.



The Ultrasonic machine, (USP- TWIN) (above), with two workstations, allows a single operator to recondition two dies at the same time, virtually doubling output. One workstation (UF) handles smaller dies (from 0.05 up to 3 mm dia.) and the other one (F) handles medium to large dies (1 to 8 mm dia.).

For subsequent sizing/calibration of the dies' bearing portion and to keep pace with the larger quantity of dies from the USP-TWIN, the HGM-21 (right) high speed, wire-type machine has been tailored to size and polish all diamond/PCD dies with bore-diameters between 0.05 up to 10 mm perfectly.

Both machines are easy to understand and operate and offer outstanding versatility and potential for all die- workshops.

The rate at which diamond/PCD dies need to be reconditioned is increasing as more wire drawing manufacturers use high-speed multi-wire drawing machines, using several expensive dies simultaneously. The dies wear out relatively quickly so that they have to be reconditioned at die workshops where skilled operators are often in short supply.

The growing number and importance of precision drawing die sets in use and their regular and perfect reconditioning becomes an absolute criteria if drawing efficiency in multi-wire drawing machines is to be maintained at a necessary high level.

www.eder-eng.com



Cable Tapes teams up with EOX Masterbatches

MANCHESTER-based Cable Tapes Ltd has teamed up with Barcelona company EOX Masterbatches.

Cable Tapes, one of the UK's leading suppliers of all cable lapping tapes and twines, will represent EOX in the United Kingdom, Middle East and India.

EOX Masterbatches, manufactures high performance colour and additive master batches for the wire and cable industry for use in cables for, among others, the power,

energy, automotive and telecommunication industries.

Cable Tapes Ltd managing director Mark Heneghan commented on the agreement, "The products and services offered to our customers by EOX Mastebatches fit our expanding portfolio well and we are confident that this new agreement will benefit both sides."

www.cabletapesuk.com





New Alloy Wire brochure

ALLOY Wire International has launched a 84-page brochure listing over 60 different types of exotic nickel alloys.

The glossy, A4 publication (*above*) provides specification data sheets on each alloy, detailing helpful information on post heat-treatment guidance and mechanical properties useful to customers when designing wire forms.

"The brochure gives definitive information on all of the alloys we supply," explained company MD Mark Venables.

"With such a lot of data it can be quite difficult to read, so we have

spent a lot of time improving the design and layout. We're proud of the result."

Alloy Wire is celebrating 70 years in business this year and in that time has grown into one of the world's leading manufacturers of wire, supplying 4000 customers in 15 sectors.

The company has recently added high performance alloys Nitronic 50 (0.025mm-5.50mm) and Super Duplex (0.025mm-6.50mm) to its extended range and can now draw from 21mm in many different alloys.

www.alloywire.com

Uhing Motion Drive: rolling ring drive with programmable control unit

THE Uhing Motion Drive (*right*) has been designed for winding and traversing processes in the wire and cable industry, and for handling and XY gantry systems.

Other feasible applications include general drive technology processes in which limited linear motion is required.

The latest innovation from Joachim Uhing GmbH is based on an Uhing rolling ring drive, extended by sensors and an electronic control unit with software also developed by the company. The combination ensures hardware and software are perfectly matched.

The existing rolling ring drive is modified in the new unit because the reversing lever and pitch-setting scale are no longer required. A stepping motor, controlled by a Siemens S7 PLC, undertakes these functions.

Freely-definable parameters provide flexibility: "The drive allows the user to define a great number of parameters, which can be saved in the control unit," explained Uhing technical director Jörg Wadehn.



The user specifies key application data and stores them in the software. This can be maximum stroke width, shaft speed and pitch per shaft rotation roughly corresponding to the width of the material being wound. This also applies to the spool type: the motion drive can handle spools of any contour.

Users can specify action points, which identify points where a repetitive action – a reversal, speed change or stop and start, for example – can be triggered. Winding patterns can also be defined.

The highly-flexible drive reduces process costs and errors, and can be integrated with existing Uhing drives or control units – even custom software modification.

www.uhing.co.uk

Events diary

2016

wire China

26 - 29 September 2016

SNIEC Shanghai, China

Tel: +49 211 45 60 77 68

Email: ryfischd@messe-duesseldorf.de

Website: www.wirechina.net



Wire & Cable India

5 - 7 October 2016

Bombay Convention & Exhibition

Centre, Mumbai, India

Tel: +49 211 45 60 77 68

Email: ryfischd@messe-duesseldorf.de

Website: www.wire-india.com



IWMA Annual Dinner Dance

25 November 2016

Royal Garden Hotel,

London, UK

Tel: +44 121 781 7367

Email: info@iwma.org

Website: www.iwma.org



2017

CabWire World Conference

7 November 2017

Congress Center,

Düsseldorf, Germany

Tel: +44 121 781 7367

Email: info@iwma.org

Website: www.iwma.org



AGM & Members' Lunch

1st February 2017

The Mere Golf Resort & Spa,

Knutsford, UK

Tel: +44 (0)121 781 7367

Email: info@iwma.org

Website: www.iwma.org



wire Russia

5-8 June 2017

Expocenter, Moscow, Russia

Tel: +49 211 4560 7793

Email: RyfischD@messe-duesseldorf.de

Website: www.wire-russia.com



wire Southeast Asia

19-21 September 2017

BITEC, Bangkok, Thailand

Tel: +65 6332 9642

Email: beatrice@mda.com.sg

Website: www.wire-southeastasia.com



wire South America

3-5 October 2017

Sao Paulo Expo, Brazil

Tel: +49 211 4560 478

Email: RotthoffJ@messe-duesseldorf.de

Website: www.wire-south-america.com





26-29 Sept 2016
Preview

wire China 2016 preview



Welcome to Shanghai

Axel Bartkus MD at Messe Düsseldorf China and Messe Düsseldorf Shanghai looks ahead to this year's exhibition

IF YOU are coming to *wire China 2016*, welcome! We're the region's essential exhibition for the wire and cable industries and this year there will be plenty to see at Shanghai's New International Expo Centre from September 26-29, organised as usual by Messe Düsseldorf with partner the Shanghai Electric Cable Research Institute.

Chinese and international companies will use *wire China* as a shop front for their latest products and innovations, but as well as this the huge Asian market uses the exhibition as a major networking event; even if you aren't exhibiting, it makes sense to attend!

This year we expect developments concerning *Industry 4.0* to be top of the agenda. The coming decade forecasts strong growth in regenerative energies (wind, solar and nuclear power) for China, which will clearly require power, photovoltaic and nuclear power cables, as well as other more specialised products. With a growing awareness of green and energy-saving developments, smart grids have become important and are being closely watched in many countries. This also gives wire and cable industries new challenges – smart energy, smart cities and the smart grid will drive innovation in the field of wire and cable.

Due to the swift development of the Chinese economy and the increasing urbanisation of the country the number of high-speed and suburban trains and e-vehicles is also rising rapidly, the consequence of which is a greater demand for bare wire, electric wires and cables and power and communication cables. The nation is investing in infrastructure items, from energy and construction to communications.

Almost 60,000sq m of exhibition space have already been rented out to 1,000 Chinese and international exhibitors in areas from wire production and processing machinery to measuring, control and detection products and services. As a result *wire China 2016* is expanding its wire and cable materials and wires and springs sections in a joint venture with the Shanghai Fastener & Tech trade fair.

Read all about it at www.wirechina.net, and we'll see you there!

Multi-division presence for Gauder Group

FRENCH members of the Gauder Group, **Pourtier** and **Setic**, will offer the widest range of cable twisting and stranding machines at *wire China*.

Chinese group member **Daloo** will show medium-cost machinery based on the same quality standards while fellow companies **C2S** and **Bow Technology** and used-machine supplier **Gauder** will complete the group's presence in Shanghai.

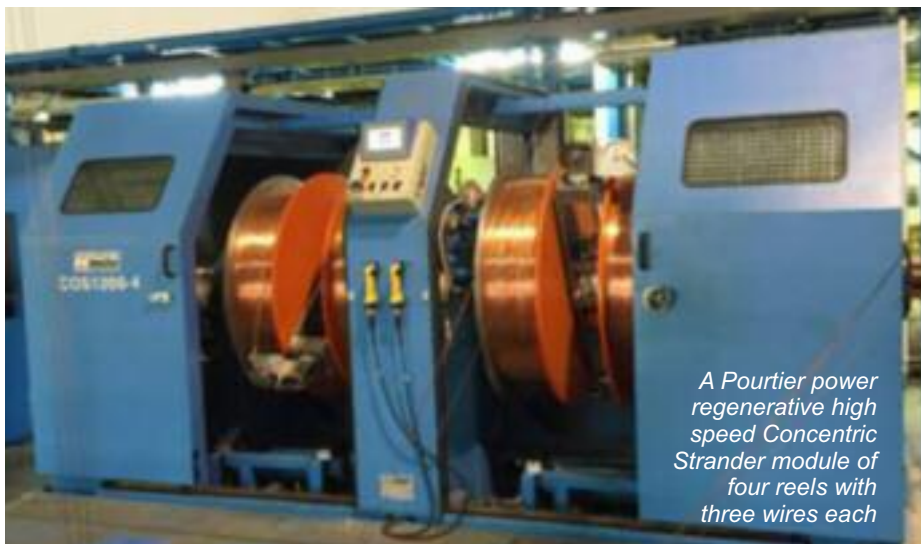
Pourtier has a renowned range of heavy-duty stranders, cablers and armoured lines for ferrous and non-ferrous cables and has made impressive achievements in submarine and umbilical cables, supplying large armoured lines and laying-up lines.

Its high-efficiency, revolutionary multi-wire concentric stranding line is also widely used for low and medium power cable production. These machines are specially designed for the production of high- and extra-high voltage power cables, from overhead to insulated types to AC types using high quality Milliken conductor for land, or DC types using large round compacted conductor or trapezoidal wires for both land and submarine cable. All are made in Europe to the highest standards.



Setic provides high-speed, double-twist bunchers/stranders (*above*) for the automotive industry, as well as complete equipment for the production of high quality LAN, special and control cables.

The company's stand will also feature tandem mica taping/bunching; special high-speed lines for battery cable, and new high-speed



A Pourtier power regenerative high speed Concentric Strander module of four reels with three wires each

lines for special and instrumentation cables. Most machines are made in France, though some are also produced by Gauder Group in China to the same quality standards for direct Asian market supply.

Daloo extends the group's global cable production offer with an attractive range of stranding lines and accessories for power and communication cables, made in China to



Daloo self-traversing take-up

Gauder Group quality standards but at a lower price than new machines made in Europe.

Gauder Group SA, Belgium
Stand: W1F25
www.gauderonline.com

Lubricant specialists

RICHARDSAPEX, a leading global manufacturer of wet lubricants for wire drawing and hot-rolling applications, will be a significant exhibitor at *wire China*.

The company produces semi-synthetic and synthetic compounds for the wet drawing of non-ferrous and ferrous wire, as well as protective coatings, cleaners, corrosion inhibitors and oil-form lubricants for all non-ferrous and ferrous wire and tube alloys. The company's core products can be produced at

all its locations in the US, Europe, Australia and Mexico. Over its 114 year history RichardsApex has established a wide global sales network with on-site support and technical sales assistance. The company has subsidiaries in the UK and Australia and representatives in dozens of countries worldwide.

RichardsApex Inc, USA
Stand: W1F20
www.richardsapex.com

Stand share

GERMAN machine manufacturer **Queins Machines GmbH** and **Stolberger-KMB** will share a *wire China* stand.

Visitors will be able to see displays and videos of both companies' products, including high-speed stranding machines, machines for CTC conductors, pay-offs, take-ups, tapping heads, disc- and belt-type caterpillars and capstans, as well as recent projects such as the manufacture and installation of a large planetary strander for subsea cables – designed to strand power conductors with an individual conductor weight of 55 tonnes.

Queins Machines GmbH, Germany
Stand: W1G57
www.queins.com



New IWMA stand's first China outing

THE IWMA's new satellite stand will make its first appearance at *wire China* and uses the same design as the one that scored a hit with visitors to *wire Düsseldorf*.

The stand is used as a hub for members and contacts alike, and offers a place to meet, talk business and enjoy IWMA hospitality.

IWMA, UK
Stand: W1F42
www.iwma.org

High-viscosity lubricant filter

REBER Systematic GmbH – better known to the industry as RESY, will show its recently developed filtration and delivery system for high-viscosity lubricants at *wire China*.

The system does for high-viscosity oils what the company's widely-used Compact Band Filter system does for the thinner liquids used in general wire production.

The new system is appropriate for aluminium lubricant filtration.

The current method for this task is simply to allow particle sludge to fall to the bottom of the lubricant reservoir, where it must periodically be cleaned out, taking lubricant with it.

Another effect of the aluminum particles is even greater thickening of the lubricant, making it less effective.

The new system is modular and consists of a centrifuge, a delivery pump, heater, cooling system and electrical control. Each one is built to the customer's requirements and can be integrated in existing systems.

Lubricant is cleaned and cooled continuously during operation, meaning the concentration of particles in the liquid stays at an acceptable level and ensures high quality and more consistent production.

Reber Systematic GmbH & Co. KG,
Germany
Stand: W1F56
www.resy-filtration.com

New developments from Troester

TROESTER GmbH will present new developments in CCV and VCV lines for MV, HV and EHV cables up to 1000 Kv; rubber CV and CCV-lines up to 35 kV, CV-technology for production of HV Cables on CCV lines, and production equipment for submarine cables at *wire China*.

Representatives from Troester group company X-Compound will also be on the stand to discuss kneader technology for the continuous compounding of HFFR (LSOH), PVC, XLPE, semiconductive materials and EPR/EPDM.

In China, Troester, a world-leading supplier of cable machines, is represented by Troester Machinery Shanghai.



Revolutionary dies

AJEX & Turner Wire Dies Co will be demonstrating its revolutionary vitrified nanocrystalline technology (VST) nano dies at *wire China*.

The global wire industry is in the middle of an expansion period and the latest technology must be able to draw materials with good wear resistance and surface properties, so quality isn't compromised.

Ajex & Turner has developed VST nano dies for copper, aluminium, aluminium alloy, stainless steel, MIG and high- and low-carbon wire, all meeting high standards.

The company will also display its full range of dies and die maintenance machinery, such

as the revolutionary TCD-10, which can grind and polish angles and bearings in one operation. This technology will also be on display at *Wire & Cable India* (see show preview).

Visitors to the Ajex & Turner stand will be able to see product demonstrations, videos of products in action, and will be able to take part in technical discussions. Members of staff can also discuss free trial possibilities.

Ajex & Turner Wire Dies Co, India
Stand: W1A70
www.ajexturner.com

Wireless sensors



Software sensor view

HANS Schmidt & Co GmbH will be promoting a new feature on its online tension sensors at *wire China*.

The company's well-known FS series can now be equipped with a patent electronic gravity force compensation and wifi module, so applications in rotating machines such as bunchers and stranders can be equipped with tension sensors without wiring or slip-rings. Readings can be sent to a display unit or direct to a PC, and one system can control up to 16 sensors.

Used with the SC-PM4 display, readings from up to four sensors can be viewed at once.

Output signals can be used for PLC control or downloaded to a PC.

Schmidt will also be showing its new SF and TSR-1 roller tension sensor series, for measuring the tension of cables and wires of up to 2000N.

The sensor is installed at an existing guide point depending to the sensor model.

The sensor needs an amplifier to get analog output, or an external amplifier (such as the Schmidt SCV-1) is required.



Troester GmbH & Co KG, Germany
Stand: W1F43
www.troester.de

Hans Schmidt & Co GmbH, Germany
Stand: W1F78
www.hans-schmidt.com

Maillefer turnkey system for China

MAILLEFER'S stand at *wire China* will show the company's tremendous experience and depth, the result of over 4,000 line deliveries over many years, and reveal the company's latest developments.

Maillefer concepts on show include the **Maillefer Factory System** - which can plan and realise a green-field factory with the lowest possible risk and cost. Maillefer's Factory System is a unique way to outsource a factory project once the end product has been defined, or extend existing facilities.

Maillefer Consultation is a new service built round the wire and cable production process. It exploits the company's core knowledge to offer targeted advice and improve the skills and processes of wire and cable manufacturers.

Maillefer will also introduce a new **Value Package** to the Chinese market. With the *Round Value Package Premium*, production is controlled under very precise tolerances in a new curing concept which guarantees

high-precision roundness in HV cable production.

The company's new Three Layer Crosshead THX 100/180 LR redefines extrusion for large conductor sizes and EHV insulation. Maillefer's application offering has grown to include aviation, and the company's experts will be on hand to discuss products such as the new aviation and aerospace wire insulation lines, *TEL 15X/Enter* and *TEL 25X//Extend*.

Maillefer's materials know-how will be displayed by showing how a rheometer (for testing rubber curing parameters) and a new *Curing Calculation Program NSS* give the best possible production run recipe.

Stand staff will be happy to test any rubber cable samples brought by visitors, who will also be able to see cable samples and experiment with the new cable roundness meter, the CRM 180.

Measurements for sudden cable geometry



errors can be examined in minute detail – which makes it easier to maintain quality in CV line production.

Maillefer, Finland
Stand: W1F24
www.maillefer.net

Niehoff to display its large machines at China show

NIEHOFF has been active in China since the early 1970s, and with Chinese engineers has successfully introduced rod breakdown, multi-wire and super-fine wire drawing technology to many Chinese cable factories.

Niehoff and Chinese subsidiary Niehoff Machinery Changzhou Co Ltd will display several major items of machinery at the Shanghai show.

These include the MMH121 multiwire drawing machines from Germany (*see page 18*), and Chinese-made D631.5 and ARP630 high-speed double twist bunching machines.

The company will share its stand with partner company **H Folke Sandelin AB**, specialists in horizontal lead extrusion and cable repair and recovery systems.

The modular MMH121 + RM201, ideally suited to electronics and building wire production, can draw 16 wires simultaneously for diameters ranging from 0.20mm-1.05mm at up to 40m/sec, combined with in-line annealer RM 201. The machines are modular and can be built to the specific requirements of customers.

The D631.5 single-bow double-twist buncher machine and ARP 630 pay-off are built by NMC under Niehoff licence. The machine is designed for strands of 0.09-6mm² cross section, with a steplessly-variable lay length of 6-100mm. They can achieve up to 6,500 twists per minute at 300 metres per minute. The machine has AC drive, contactless internal data transmission, energy-saving capabilities and a touch-screen display with a colour



D 631.5 + ARP 630 type high speed double twist bunching machine

screen and simplified navigation. Another feature is high-precision tension control for strand winding.

Niehoff's MSM 86 rod-drawing machine is



MSM 86 wire drawing machine

the latest development of a machine that has been in use all over the world and a top seller since the early 1960s.

Designed for wires of copper, copper alloys, aluminum, aluminum alloys and other non-ferrous metals, the machine can be combined with a continuous annealer (R 502, RA 501 or RI 420 types), which are extremely powerful and highly energy-efficient, with power savings of up to 10%.

Maschinenfabrik Niehoff GmbH, Germany
Stand: W1F63
www.niehoff.de



Better welding

GERMAN welding equipment maker August Strecker's *wire China* show stand will feature the newly-improved **FPC full parameter control unit**.

The second-generation unit, now available for retrofit as well as single-phase welding machines from Strecker, offers (depending on the model), precise current control for consistent welds, longer jaw-insert lifetime thanks to a zero-gap clamping arrangement, and hydraulically-optimised motion control, which automatically maintains precise position without further adjustment.

The new unit maintains all the existing FPC advantages, from easy welding-recipe storage to constant weld parameter monitoring.

August Strecker GmbH & Co KG, Germany
Stand: W1F60
www.strecker-limburg.de

Smart Factory



R OSENDAHL Nextrom is focusing on increasing customer value using advanced manufacturing technology. The added value can be immense: *Industry 4.0*, which Rosendahl calls *Smart Factory*, is becoming a reality and opening new doors for suppliers and manufacturers alike.

Predictive maintenance, process backtracking and online monitoring are just some of the benefits.

The *Rosendahl Integrated Operation* system meets *Industry 4.0* requirements and automatically collects, organises and displays production information, which can be saved locally or in the cloud for analysis or report and optimisation.

Users can see information about production performance and quality, reel protocols, error message-related statistics, energy usage, OEE figures and more.

The *Smart Factory* module of RIO has reporting and analysis tools that offer users live status reports and allow the retracing of each of the production processes. This permits structural element identification by RFID chip to avoid set-up errors, problem prevention thanks to the intelligent evaluation of the stored data and early warning of problems or wear, and advance notice of a line or component that needs service.

Rosendahl's mobile reporting system *SmartGlance®* gathers data and reports and can be accessed anywhere. Data are encrypted for security.

Rosendahl Nextrom has also made developments in high-temperature materials processing and silicone rubbers, the high-speed production of loose tubes with fibre over-length control, helium recycling during fibre drawing, and more.

Rosendahl Nextrom GmbH, Austria
Stand: W1D43
www.rosendahlnextrom.com

IWMA member companies exhibiting at wire China

Ajex & Turner Wire Dies Technologies	India	W1A70
August Strecker GmbH & Co KG	Germany	W1F60
Aymak Makine Mühendislik Hiz San Ve Tic Ltd Sti	Turkey	W1F23
Bekaert NV/SA	Belgium	W1F44/W1G43
BWE Ltd	China	W3D43c
Carl Bechem GmbH	Germany	W1F54
Cecco Bartell Products, Bartell Machinery Systems LLC	USA	W1G06
CeramTec GmbH	Germany	W1G69
China Southern (Group) HK Ltd	Hong Kong	W1B76
Cimtec Ltd	UK	W1F36
Condat SA	France	W1D41
Dongguan XinMei Precision Mold Co Ltd	China	W2E02
Eder Engineering GmbH	Austria	W1D51
Esteves China (Shanghai) Diamond Dies Co Ltd	China	W1D07
Euroalpha SRL	Italy	W1B27
Eurodraw Wire Equipment SRL	Italy	W1B25
FMS Force Measuring Systems AG	Switzerland	W1B47
Fort Wayne Wire Die Inc	USA	W1G15
Gauder & Co SA	Belgium	W1F25
Gwo-lian Machinery Industry Co	Taiwan	W1F82
H. Folke Sandelin AB	Sweden	W1F63
Hans Schmidt & Co. GmbH	Germany	W1F78
Hefei Smarter Import & Export Co Ltd	China	W2A01
Inductotherm HWT (Radyne)	UK	W1G24
Intras Ltd	UK	W1G32
Jiangsu Handing Machinery Co Ltd	China	W2C03
Jiangsu Qunye Electrical Co Ltd	China	W2C43
Joachim Uhing GmbH & Co KG	Germany	W1D48
KIESELSTEIN International GmbH	Germany	W1F52
Maillefer	Finland	W1F24
Maschinenfabrik Niehoff GmbH & Co KG	Germany	W1F63
Medek & Schörner GmbH	Austria	W1D45
Metalube Ltd	UK	W1F38
Microdia SA	Switzerland	W1C55
Nanjing Zhongchao New Materials Corp	China	W5D43
Proton Products International Ltd	UK	W1D82
QED Wire Lines Inc	Canada	W1G37
Queins Machines GmbH	Germany	W1G57
Reber Systematic GmbH + Co KG	Germany	W1F56
RichardsApex Inc	USA	W1F20
RK Umformtechnik GmbH + Co KG	Germany	W1G52
Rosendahl Nextrom GmbH	Austria	W1D43
SAMP Sampsistemi	Italy	W1C03
Shanghai Geili Precision Dies Co Ltd	China	W4B85
Shanghai HOSN Machinery Technology Co Ltd	China	W2D23
Shanghai Kechen Wire & Cable Machinery Co Ltd	China	W2B23
Shanghai Nanyang Equipment Co Ltd	China	W2B21
Shanghai Singcheer Technology Co Ltd	China	W2E03
Sikora AG	Germany	W1F62
Sket Verseilmaschinenbau GmbH	Germany	W1E60
Trafo SRL	Italy	W1B23
Traxit (Tianjin) Chem Co Ltd	China	W1G34
Traxit International GmbH	Germany	W1G48
Troester GmbH & Co KG	Germany	W1F43
WCISA	USA	W1G08
Wire & Plastic Machinery Corp	USA	W1G05
Zeller+Gmelin GmbH & Co. KG	Germany	W1E51
Zumbach Electronic (Shanghai) Co Ltd	China	W1E22

IWMA: at your service



“The IWMA presence and stand provides a fantastic facility for members at major international exhibitions”

DOUGLAS HUNT,
Commercial Director, Metalube.



“The IWMA offers a great network when you’re overseas; help with hotels, transport and great support while you are there.”

KEVIN BENNETT, Sales Director, BWE Ltd

A key benefit of IWMA membership is the support the association provides at major international trade events

IN A global industry, trade shows and conferences provide an invaluable opportunity to meet clients from all over the world in one place – but exhibiting can be costly.

The IWMA attends the biggest international exhibitions to provide support for members whether they are exhibiting or just visiting. Kevin Bennett, sales director at BWE, often relies on advice and support from the IWMA team when he attends exhibitions. “The IWMA offers a great network when you’re overseas; help with hotels, transport and so on – and you get great support while you are there,” he says.

As a wire industry partner with Messe Düsseldorf GmbH, the IWMA can get preferential deals for its members.

“We can negotiate favourable rates for shipping, accommodation and so on,” explains IWMA executive manager, Andy Lewis.

The IWMA has made some big changes to its own stand this year. The space has been completely redesigned to provide more and better facilities for members.

“We have a very friendly team available throughout exhibitions to help members with any problems,” said Andy.

The new full-size stand had its first outing at wire Düsseldorf, while smaller, “satellite” versions will be available at wire China and Wire and Cable India.

“We can offer a range of business services on the stand, from meeting space and printing to internet access and refreshments,” Andy

continued. “Whether members want to use a private room to meet customers and talk business, or just catch up with colleagues over a beer, our stand facilities are freely available.”

Metalube’s commercial director, Douglas Hunt, is another fan of the IWMA’s stand and exhibition support.

“I like to make sure our stand is near the IWMA’s so our team can use the business services and have a quick coffee break or two away from our own stand,” he said.

“The IWMA presence and stand is a fantastic facility for members at international exhibitions,” he added.

The improved facilities offered by the IWMA are helping to new members. So far this year the association has attracted 21 new companies (*see the new member list on the back cover*).

“We get stronger with each new member, and strength can only be good for the association and for members,” said Andy.

As well as business facilities, the IWMA also organises networking events for members attending exhibitions.

“It’s the perfect opportunity to meet customers, colleagues and potential clients in a relaxed atmosphere,” Andy continued.

Adrian May of the IST (Institute of Spring Technology) agrees: “The IWMA excels at networking and organising exhibitions. It is staggering how many companies attend the networking events. To get among the people in the industry I’d really recommend joining the IWMA, it’s great value for money.”

“A record 21 companies have already become members this year.”

Oden introduces end-to-end production analytics

NEW York-based Oden Technologies has introduced its most advanced analytics for manufacturers, which includes monitoring real-time data from production lines, diagnosing problems by the second and seeing trends over time by product, shift, line or factory.

"It is a very easy to use system that allows manufacturers to understand the nuances of their OEE and production without massive time commitment," said Oden co-founder Peter Brand.

"We worked closely with several wire and cable factories for over a year before launching our end-to-end production analytics platform in the plastic extrusion market. We now aim to roll out our *smart factory* concept to the wider market."

Oden originally collaborated with a number



of large European manufacturers and found that many of them lacked the ability to record production data and present it to their teams in a useful way.

Oden developed a very efficient solution: connecting a small device to the manufacturers' existing machinery made it possible to collect data from the production line in real time.

Information is instantly sent to a cloud-based analytics platform in which process flows can be observed and analysed to find any distortions or glitches.

The manufacturer can then start predicting inconsistencies and receive alerts before problems arise.

"We want to relieve manufacturers of extra spreadsheets, code, and lengthy projects," Peter continues. "We have customised our analytics toolbox for the plastic extrusion industry and can demonstrate its value in improving quality and efficiency. By hosting our platform on the cloud we can tailor and evolve the tools available to clients."

www.odentechnologies.net



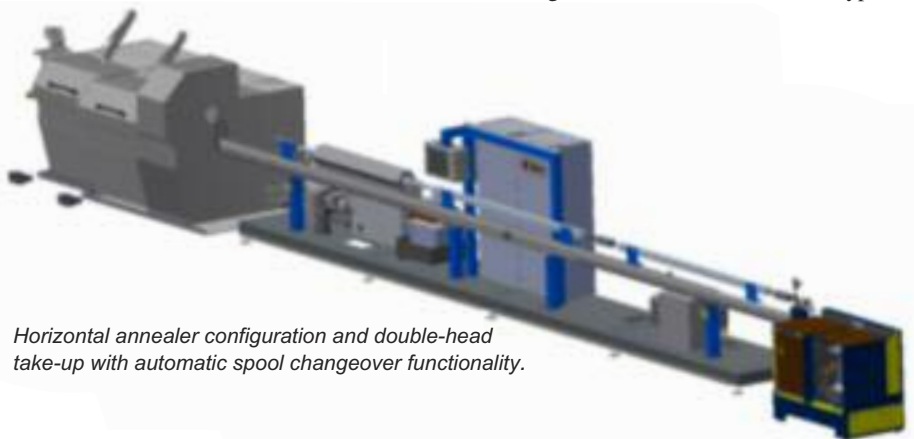
Streamlining the drawing of fine stainless steel wires

SCHMIDT Maschinenbau GmbH of Gummersbach, Germany, and Plasmait GmbH of Lebring, Austria, have collaborated to develop a new drawing line for fine stainless steel and nickel alloy wires with an inline annealer. Until recently, the annealing of stainless steel and nickel alloy wires has been achieved almost exclusively in traditional tube furnaces in a multi-line setup. The companies' new *plasmaANNEALER* can now be installed

vertical annealer, suitable for smaller fine wire diameter ranges, as demonstrated at *wire Düsseldorf*.

PlasmaANNEALER was selected among the top products of 2014 by *Wire and Cable Technology* magazine, as the first annealer able to anneal fine stainless steel wire in-line with drawing.

It can also be used in combination with rolling mills or stranders. The new integrated drawing /annealing line can be used for different types



Horizontal annealer configuration and double-head take-up with automatic spool changeover functionality.

in-line with Schmidt fine wire-drawing machines producing stainless steel wires of diameters from 1mm to 0.1mm at a speeds from 4 to 15metres a second.

This set-up avoids the need for 10-20 lines in a traditional tube furnace, removing expensive multi-line take-ups and pay-offs with all the associated material handling and manpower needs.

Installation can be with a horizontal annealer and double-head take-up with automatic spool changeover. Alternatively, the integrated line is available in a compact design with a

of materials used in applications such as fine wire for mesh and textile, filter wire, brush wires, EMS mesh wires, resistance wires, heating element wires, medical, jewellery, aerospace, automotive and similar applications. The new integrated drawing-annealing line is initially available in Europe and Asia, and will be available later in North America.

www.plasmait.com

Ultra-precise measurements from Zumbach

THE latest dual-axis measuring head from Zumbach's ODAC® laser measuring unit series is among the most accurate, robust, reliable and adaptable currently available.

Thanks to the compact design, the ODAC®

14XY (pictured) measuring head can be used in virtually every manufacturing process in the wire and cable, plastics and rubber or steel and metals industries.

Zumbach laser units combine the latest, cutting edge technology, with laser diodes as light sources to offer simple and flexible use in your line processes.

Zumbach's long-standing experience as a pioneer of in-line measuring technology allows the company to offer the ODAC series with a very strong price to performance ratio.

Among the high-end features of the unit are single-scan calibration, single scan monitoring and high data rate output of up to 125 data packages a second.

The measuring heads can be used with all line speeds, and machine vibration during production has noticeable influence on measurement accuracy.

The 14XY is specially suited for wire applications including fine and extra-fine wires, enamelled wires, cables, steel cords and other fibres. ODAC 14XY comes in two measuring ranges, a micro version handling 0.015mm-3mm (0.0006in-0.12in.), and a standard unit covering 0.06mm-16mm (0.0024in-0.64in.). A special laser allows to low-range

unit to measure diameters in the micrometer range.

Adaptive signal processing in both units increases accuracy.

All measuring heads in the ODAC series have patented adaptive signal processing which makes regular recalibration unnecessary, except where components need to be replaced. All the relevant accuracy parameters are continuously monitored by the system and recalibrated, which also takes into account long-term changes in the scanner motor or internal electronics.



New CFO for Leoni

THE supervisory board of LEONI AG, Nürnberg, Germany, has appointed Karl Gadesmann as chief financial officer with effect from October 1. Karl will also take charge of the company's information management department. Karl has expertise in the car and commercial vehicle industry. He has been a member of the executive board and CFO of the Dräxlmaier Group, and worked at MAN Truck & Bus AG.

www.leoni.com

www.zumbach.com

Customers give Madem their seal of approval

MADEM Brazil has received over 90% approval rating from its customers in a customer survey earlier this year.

Madem Brazil contacting 96 wire & cable manufacturing clients in 21 countries. Of the 76 (79%) responses in three categories: bad, regular, good and very good, with 91,05%

of responses rated service as good and very good.

The survey looked at claim response, quantities shipped X received, documentation, deliveries, quality inspections, performance, and packing.

"We are very proud of our product continuity, considering we supply products to several countries, each with its own requirements. We are delighted with the survey results, and will continue to work towards 100% customer satisfaction for all our global customers," said Leandro Mazzocato, corporate director of sales and marketing.

The next customer satisfaction survey in Brazil plant will be conducted in Jan 2017. Madem Group is the leading nailed wooden reels producer in the world, producing over 400 containers and trucks of knock down reels a month.

www.mademreels.com



IWMA corporate members

A Karpat Ltd	Canada	Er-Bakir Elektrolitik Bakir Mamulleri AS	Turkey
ACIMAF	Italy	Esteves Group	Spain
ACOTEQ GmbH	Germany	Euroalpha SRL	Italy
Advaris GmbH	Germany	Eurobend SA	Greece
AESA Cortaillod	Switzerland	Eurodraw Wire Equipment SRL	Italy
Ajex & Turner Wire Dies Co	India	FH Machinery	USA
Alecosa-Aleados del Cobre SA	Spain	FIB Belgium SA	Belgium
Alloy Wire International	UK	Fisk Alloy Conductors BVBA	Belgium
Anglia Metal Ltd	UK	FMS Force Measuring Systems AG	Switzerland
Apple International Engineering Works Pvt Ltd	India	Fort Wayne Wire Die Inc	USA
Arab Co for Cable Polymers Ltd	Saudi Arabia	Foxton Dies Ltd	UK
Asia Sim Co	Iran	Frontier Composites & Castings Inc	Canada
Associated Engineers & Industrials Ltd	India	FUCHS Lubricants (UK) Plc	UK
Assomac Machines Ltd	India	G & A Engineering Ltd	UK
AstroPlast, Kunststofftechnik GmbH & Co KG	Germany	G Church - Consultant	UK
August Hildebrandt GmbH - Kabeltrommeln	Germany	Gauder Group	Belgium
August Strecker GmbH & Co KG	Germany	Geca-Tapes BV	France
Australasian Wire Industry Association	Australia	Gem Gravure Co Inc	USA
Aymak Makine Mühendislik Hizmetleri San ve Tic	Turkey	General Copper Co Ltd	China
Balloffet SA	France	GEO Reinigungstechnik GmbH	Germany
Bar Products & Services Ltd	UK	Goodwin Machinery Ltd	UK
BASEC (British Approvals Service for Cables)	UK	Guidetti SRL	Italy
Bennett Mahler Ltd	UK	GURFIL Sanayi ve Elektronik Cih Paz AS	Turkey
Bongard Trading GmbH & Co KG	Germany	Gwo-lian Machinery Industry Co	Taiwan
Bridon International Ltd	UK	H. Folke Sandelin AB	UK
British Diamond Wire Die Co Ltd	UK	Häfner & Krullmann GmbH	Germany
BWE Limited	UK	Hans Schmidt & Co GmbH	Germany
Cable Tapes UK Ltd	UK	HB Cables & Components Ltd	UK
Calmec Precision Ltd	Canada	Hefei Smarter Import & Export Co Ltd	China
Cape Gate (Pty) Ltd	UK	Heinze & Streng GmbH	Germany
Can-Eng Furnaces Ltd	Canada	Holton Crest Ltd	UK
Carl Bechem GmbH	Germany	Huestis Industrial	USA
Ceeco Bartell - Bartell Machinery Systems	Canada	Huntstar Trading Ltd	UK
Cemanco LC	USA	ICE Wire Line Equipment Inc	Canada
Central Wire Industries UK Ltd	UK	Inductotherm HWT (Radyne)	UK
CeramTec GmbH	Germany	Induflex NV	Belgium
Chaplin Bros (Birmingham) Ltd	UK	InnoVites BV	Netherlands
Chemetall Ltd	UK	Inosym Ltd	New Zealand
China Southern (Group) HK Ltd	Hong Kong	Institute of Spring Technology Ltd	UK
Cimteq Ltd	UK	Integer Research Ltd	UK
Commission Brokers Inc	USA	Interlink Import-Export Ltd	UK
Comsuc Technology Development Ltd	China	International Trade Shows Link Ltd	UK
Condat Ltd	France	Intras Limited	UK
Consultex Sp. z.o.o.	Poland	Itaya Europe limited	UK
Control and Power Engineering Ltd	UK	JG Tec Ltd	UK
Copperweld Bimetallics UK Ltd	UK	Jiangsu Handing Machinery Co Ltd	China
Cortinovis Sicra	Italy	Jina Special Steel Works Pvt Ltd	India
Costa Machinery GmbH	Germany	Joachim Uhing GmbH & Co. KG	Germany
CRU Events	UK	Kelani Cables PLC	Sri Lanka
CSM Metalurji Imalat Sanayi Ve Muhendislik Ltd sti	Turkey	KIESELSTEIN International GmbH	Germany
Daewon Cable Co Ltd	South Korea	Koner SpA	Italy
Danross Engineering	UK	LA. M. PLAST SAS	Italy
Data M Sheet Metal Solutions GmbH	Germany	Lamifil NV	Belgium
De Montfort University	UK	LCP TPOE (Baker Hughes, Centrilift)	Russia
Dongguan XinMei Precision Mold Co Ltd	China	Leggett & Platt Wire Group	USA
Drahtwerk Waidhaus GmbH	Germany	LEONI Draht GmbH & Co KG	Germany
DRT Impianti SRL	Italy	Leoni Temco Ltd	UK
DSE Test Solutions A/S	Denmark	Lewis Wire Ltd	UK
E Braude (London) Ltd	UK	Locton Ltd	UK
Eder Engineering GmbH	Austria	Lune Prozesstechnik GmbH	Germany
EOX Masterbatches SL	Spain	Madem SA Ind E Com de Madeiras	Brazil

Maillefer	Finland	Shanghai Kingway Technology Group Ltd	China
Manentimacchine SRL	Italy	Shanghai Nanyang Equipment Co Ltd	China
Marldon Group Limited	UK	Shanghai Singcheer Technology Co Ltd	China
Maschinenfabrik Niehoff GmbH & Co KG	Germany	Sictra Cortinovis	Italy
Mathiasen Machinery Inc	USA	Siebe Engineering GmbH & Co KG	Germany
Medek & Schörner GmbH	Austria	Sikora AG	Germany
Media-Holding "RusCable"	Russia	Simplex Rapid SRL	Italy
Meisenbach GmbH	Germany	Singhania International Ltd	India
Menam Stainless Wire Public Co Ltd	Thailand	Siri Wire	USA
Metalube Limited	UK	SKET Verseilmaschinenbau GmbH	Germany
MGS Manufacturing Inc c/o Northampton Machinery	UK	Smeets SA - Loypos	Belgium
Microdia SA	Switzerland	Sneham International	India
Mikrotek Machines Ltd	India	South African Wire Association	South Africa
Mittal Steel Kent Wire Ltd	UK	Spring Tooling Ltd	UK
Nanjing Zhongchao New Materials Corp	China	Stanaway Wire Ltd	UK
Nano-Diamond America Inc	USA	Stonepark Consultancy Ltd	UK
NeoFil Ltd	UK	Stride Supplies Ltd	UK
Nexans Deutschland GmbH	Germany	Supermac Industries Ltd	India
NOTA-ZAKLAD MECHANIKI PRECYZYJNEJ	Poland	SWR Limited	UK
NV Bekaert SA	Belgium	T Fukase & Company Ltd	Japan
O.M.A. SRL	Italy	T M Associates	UK
OB Mallas	Bolivia	TapeFormers.com	UK
Oden Technologies Ltd	UK	Techna International Ltd	UK
OMA (UK) Ltd	UK	Techno Commerce Ltd	UK
Ormiston Wire Ltd	UK	Technokabel SA	Poland
P F Consulting	UK	The Worshipful Co of Tin Plate Workers alias Wire Workers	UK
P W Hall Ltd	UK	Thompson & Hudson Wire Machinery	UK
Pakistan Cables Ltd	Pakistan	Tianjin Goldsun Wire Rope Ltd	China
Paramount Conductors Ltd	India	Trafco SRL	Italy
Pentre Group Ltd	UK	TRAXIT International GmbH	Germany
Permanoid Ltd	UK	Troester GmbH & Co KG	Germany
Plasmait GmbH	Austria	U Gear Automatic Machinery Ltd	Taiwan
Pneufarm Machines Ltd	UK	University of Southampton	UK
Pressure Welding Machines Ltd	UK	Untel Kablo AS	Turkey
Proton Products International Ltd	UK	Vietnam Electric Cable Corp (CADIVI)	Vietnam
Prysmian Group	UK	Vinston US Corp	USA
PS Costruzioni Meccaniche SRL	Italy	Warbrick International Ltd	UK
Q8Oils	UK	WCISA c/o Wire Lab Co	USA
QED Wire Lines Inc	Canada	Weber & Scher Mfg Co Inc	USA
Qingfeng Electrical Technology (Hong Kong) Co Ltd	Hong Kong	Webster & Horsfall Ltd	UK
Queins Machines GmbH	Germany	White & Street International Ltd	UK
Qunye Electrical Co Ltd	China	Whitelegg Machines Ltd	UK
Rautomead Limited	UK	Windak Group	USA
Reber Systematic GmbH	Germany	Wintwire Ltd	UK
Reelex Packaging Solutions Inc	USA	Wire & Cable Technology International	USA
RichardsApex Europe Ltd	USA	Wire & Plastic Machinery Corp	USA
Ridgway Machines Ltd	UK	Wire and Tube News	UK
RK Umformtechnik GmbH & Co KG	Germany	Wire Association International Inc	USA
Roblon A/S	Denmark	Wire Koerner GmbH	Germany
Rolf Schlicht GmbH	Germany	Wire Lab Company	USA
Rosendahl Nextrom GmbH	Austria	WOLCO Sp. z.o.o.	Poland
S K Wiring Products Ltd	UK	WTI Fasteners Ltd	UK
SACO AEI Compounds Ltd	UK	XL Technologies UK Ltd	UK
SAMP SpA - Sampsistemi Division	Italy	YTC America Inc	USA
Sant Engineering Industries	India	Zeller + Gmelin GmbH & Co KG	Germany
Sanxin Wire Die Inc	USA	Zephyr - One Ltd	UK
Sarkuysan Elektrolitik Bakir San ve Tic	Turkey	Zumbach Electronic AG	Switzerland
Scott Precision Wire Ltd	UK	Zyklomat Erich Fetzter GmbH & Co KG	Germany
Shanghai Geili Precision Dies Co Ltd	China		
Shanghai HOSN Machinery Technology Co Ltd	China		
Shanghai Kechen Wire & Cable Machinery Co Ltd	China		

Wire & Cable India 2016 preview



THE wire and cable industry in India is largely driven by demand from the retail segment and government investment. The market has been growing steadily and is expected to reach around ₹572 billion (about £6.5 billion) by 2018.

The increasing importance of power, light and communication has kept demand for wires and cables high, and this trend is set to continue as demand for reliable, efficient energy and data communications grows.

The industry is a volume driven product and has evolved from the unorganised to the organised sector. As the new government is focusing on *Make in India* as an industrial call to arms, the industry is expected to grow at a similar rate for the next five years.

Messe Düsseldorf India – which organises *Wire & Cable India* – has been one of the pioneers in introducing and organising a range of industry

continued opposite



Precise welding

GERMAN butt-weld machine maker August Strecker will be taking its new machine control unit to *Wire & Cable India*.

The wide-ranging device adds strong new features to its already-impressive list, which includes automatic programme selection, precise voltage control, voltage harmonisation across machines and other features.

The Evo 2 model adds current control for precise weld temperature stability, an innovative “zero-gap” clamping arrangement that removes the need for readjustment, and hydraulic motion control, to maintain position across many welds.

August Strecker GmbH & Co KG, Germany
Stand: E02
www.strecker-limborg.de

Exhibition endorses *Make in India* initiative

With the new government focus on 'Make in India', the wire and cable industry is set to grow over the next five years. Thomas Schlitt, general manager of Messe Düsseldorf India looks at what will be on show and why you should be there.

integrated platforms for exhibitions for the wire and cable sector in India since 2010. Exhibitors from across India and other countries have come to the fair and its cousins – *Tube India* and *Metalurgy India* – to offer their latest products and services.

Wire and Cable India 2016 comes to the Bombay Convention and Exhibition Centre (BCEC) October 5- 7 in Hall 1 and will stretch over 18,000sq m of floor space, with 130-plus Indian exhibitors and more than 150 international exhibitors from 25 countries.

Not surprisingly, *Wire and Cable India* is actively supporting the Indian government's *Make in India* initiative. The fair is supported by the International Wire and Machinery Association (IWMA) and others - the International Wire and Cable Exhibitors Association (IWCEA), the Italian Wire Machinery Manufacturers Association (ACIMAF), the Wire and Cable Industry Suppliers Association USA (WCISA), the Steel Wire Manufacturing Association of India (SWMAI) and the All-India Weld Mesh Manufacturers Association (AIWMA). The show is also supported by all the leading publications and web portals.

As well as the exhibition, there will be a conference on *Polymers in Cables and Wires* (PCW 2016) on 7 October 2016 at the same venue, jointly organised by Messe Düsseldorf India and Color Publications Pvt Ltd.

Recently, the use of polymers in the cable and wire industry has increased, both for convenience and functionality. The conference will look at the entire supply chain to offer a better understanding of best practice and new products and cables.

Topics the conference will cover:

- The use of polymers in wires and cables
- Reinforced polymers and materials for wire and cable applications
- Flame-retardancy and related standards
- Intra- and inter-material replacement in wires and cables
- Value-addition in the polymer space for wires and cables
- Automation in wire and cable manufacturing

Target audience

The target audience is manufacturers of wires and cables, compound suppliers, RM suppliers, equipment suppliers and end-users in the segment.

Reasons to attend

- Engage with leading polymer suppliers to the industry
- Engage with technical experts
- Evaluate new materials and new suppliers
- Understand new trends and possibilities in material replacement in wires and cables.
- Understand wire and cable manufacturers' expectations from the polymer industry

Competence that counts from Maillefer

HOW do you define competitiveness? For Maillefer it means increasing the lifetime value of technology in different production and market circumstances.

Maillefer does it by empowering people, production and productivity, and equipping customers with the right expertise.

To better answer the diverse needs of wire and cable manufacturers around the world, Maillefer's portfolio is organised on three levels: */Enter*, *//Extend* and *///Explore*, which vary in capacity, cost, automation, flexibility, product range, space requirements and maintenance needs.

If you require a qualified concept to develop a complete factory with the lowest risk and cost, let us show you a new way to seize your business opportunities – the Maillefer Factory System.

The company also offers 30 know-how products through Maillefer Consultation, with which clients can maximise the value of their technology, access best practice and improve processes according to their needs.

At the show Maillefer will offer details on



these and on products such as new *Round Value Package Premium*, which guarantees high-precision precision roundness in high voltage cable production.

Visitors can see a display of the company's new *Cable Roundness Meter CRM 180*, which offers a new way to reliably measure cable core roundness and concentricity of medium, high and extra high voltage cable cores without errors.

Visit the Maillefer booth to hear details of

other products and services, including *Quick Conductor Splicing*, the *FO Cable Secondary Coating Line OEL 40*, the *MV CCV Line EPL 30*, and the *HV CCV Line EPL 50*.

Maillefer also runs a 24/7 service support desk, spare part delivery and technical visits.

Maillefer, Finland
Stand: C12
www.maillefer.net

Rosendahl Nextrom gets smart in India

ROSENDAHL Nextrom, a leading supplier of production technologies for cables, wires and optical fibres, will present the latest advances and technological highlights at *Wire & Cable India 2016*. These include state of the art achievements in solar cable production in co-extrusion and tandem extrusion, automotive wires, technologies for optical fibre UV coating, fibre proof testing and the manufacturing of fibre-optic cables.

Industry 4.0 – Smart Factory – is becoming a reality and opening new doors for manufacturers. Rosendahl will be able to offer technologies to help to make the concept reality.

Rosendahl Nextrom GmbH, Austria
Stand: E14
www.rosendahlnextrom.com

IWMA member companies at Wire & Cable India

AESA Cortaillod	Switzerland	D18A	Mikrotek Machines Ltd	India	D02
Ajex & Turner Wire Dies Co	India	B02	Nanjing Zhongchao New Materials Co	China	D26
Associated Engineers & Industrials Ltd	India	A52	Proton Products International Ltd	UK	C04
Assomac Machines Ltd	India	A02	Queins Machines GmbH	Germany	G34
August Strecker GmbH & Co KG	Germany	E02	Reber Systematic GmbH	Germany	H39
Bongard Trading GmbH & Co KG	Germany	A156	RichardsApex Inc	USA	C30-3
Carl Bechem GmbH	India	A72	RK Umformtechnik GmbH & Co KG	Germany	G38
Ceeco Bartell - Bartell Machinery Systems	Canada	C30	Rosendahl Nextrom GmbH	Austria	E14
Condat Ltd	France	D78A	SAMP SpA - Sampsistemi Division	Italy	C14
Eder Engineering GmbH	Austria	F07	Sant Engineering	India	A109
Eurodraw Wire Equipment SRL	Italy	C26	Shanghai HOSN Machinery Technology Co Ltd	China	E42
FIB Belgium	Belgium	E56	Shanghai Kechen Wire & Cable Machinery Co Ltd	China	G57
Fort Wayne Wire Die Inc	USA	tbc	Sikora AG	Germany	G48
Gauder & Co SA	Belgium	D08	SKET Verseilmashchinenbau GmbH	Germany	G49
H. Folke Sandelin AB	Sweden	E02	SMEETS NV/SA	Belgium	D12
Hefei Smarter Import & Export Co Ltd	China	F25	Sneham International	India	C49
InnoVites BV	India	C80	Supermac Industries India Ltd	India	C02
Inosym Ltd	New Zealand	C38	Troester GmbH & Co KG	Germany	G30
Intras Ltd	UK	D36	WCISA c/o Wire Lab Company	USA	C30-5
Jiangsu Handing Machinery Co Ltd	China	E15	Wire & Plastic Machinery Corp	USA	C30-1
Maillefer	Finland	C12	Zeller+Gmelin	Germany	E02
Maschinenfabrik Niehoff GmbH	India	E02			
Medek & Schörner GmbH	Austria	F15			
Metalube Limited	India	E05			

New die range unveiled

LIKE many IWMA members, Ajax and Turner will be moving from a significant presence at *wire China 2016* in September to do it all again in Mumbai in October at *Wire & Cable India*.

The New Delhi-based company will have its latest products and equipment on show, and along with high-tech VNT nano dies will also display a range of PCD and carbide dies, busbar dies and shape dies, as well as die polishing machines for PCD and carbide, die polishing accessories and die inspection microscopes.

A&T will bring to Mumbai the first range in the country of VNT Nano dies for compacting and drawing copper, aluminium, stainless steel and other high and low carbon wires in intermediate sizes from 0.8mm-70mm.

The company believes the new range will provoke interest from all kinds of wire and cable makers for their excellent price to performance ratio.

"Tungsten carbide dies are the most popular due to their low prices, but quickly lose their tolerance and don't have the desirable low-friction characteristics," explained an A & T spokesman.

"At the other end of the scale, PCD dies are better than tungsten but are more expensive, and the cost increases with hole diameter. Nano dies are both economical and a great

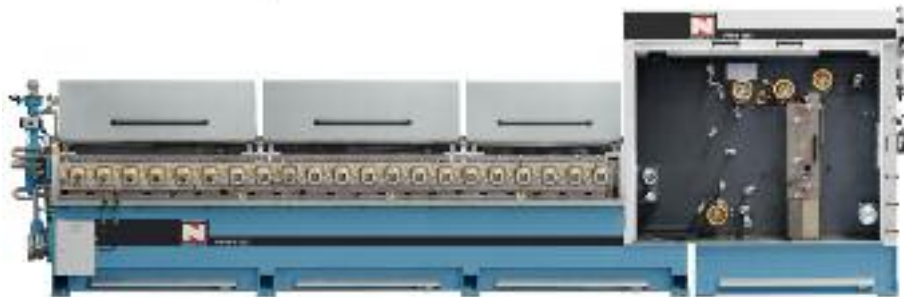


performer, thanks to a multi-layered coating of pure nanocrystalline diamond. The diamond coating offers little friction so offers a good surface finish and maintains high accuracy throughout its working life. They are a big step forward; better than PCD at lower cost."

As well as its wide range of dies for a wide variety of applications, Ajax and Turner will show its latest die polishing and grinding machine, the TCD-10 (above).

The equipment can polish and grind angles and bearings in one operation, at high speed. The TCD-10 can recondition dies very quickly to give precise angles on the new surfaces.

Ajax & Turner Wire Dies Co, India
Stand: B02
www.ajexturner.com



Niehoff machines for Mumbai

MASCHINENFABRIK Niehoff has been active in India for more than 30 years and is a keen exhibitor at the Mumbai-based *Wire & Cable India*.

Niehoff of India (NoI), Niehoff's subsidiary founded in 1997, is the country's market leader for machinery for rod breakdown, multiwire drawing and bunching.

NoI operates a modern, well-equipped factory near Hyderabad opened in 2007 and enlarged in 2011/2012. The company builds rod breakdown machines, annealers, spoolers, bunching machines and pay-offs conforming to Niehoff standards, mainly destined for the Indian market.

NoI is also responsible for all after-sales service and official Niehoff replacement parts under the *Niehoff Original+* banner. At *Wire & Cable India* the company will

have on display a similar equipment range shown at *wire China* a month before, including the MMH 121 multiwire drawing machine (above), designed to draw 16 wires in one level for a diameter range from 0.20 mm up to 1.05 mm. The MMH 121 is combined with an inline annealer (type RM 201) and can work at up to 35 m sec.

The Niehoff stand will be shared by partner companies **August Strecker** of Germany, **Zeller+Gmelin** of Germany and **H. Folke Sandelin AB** of Sweden.

Maschinenfabrik Niehoff GmbH, Germany
Stand: E02
www.niehoff.de

Wire Düsseldorf 2016 report



**Rupert
Parmenter**



**René
Branders**

WIRE 2016 is behind us and what a week it was! Global economic upheaval, a worldwide steel crisis, new climate regulations spanning the globe and a classic industry on its journey into the new *Industry 4.0* digital age were the main topics for exhibitors and visitors alike.

Almost 70,000 visitors representing 2,600 companies from 130 countries visited *wire Düsseldorf 2016* and its sister *Tube Düsseldorf 2016*, the two taking up almost 111,000sq m of exhibition space across 16 halls - a new record.

Of the two, *wire Düsseldorf* had 1,337 exhibitors from 53 countries across 59,700sq m, showcasing wire manufacturing and finishing machinery, process engineering tools and auxiliary materials as well as materials, special wires and cables. Innovations in measurement, control, test engineering were also major subject areas.

This year's event was special as it marked *wire 2016*'s 30th birthday.

Over the 15 biennial exhibitions the event has grown from its original 488 exhibitors in 2,400sq m of floor space to today's vast numbers.

The event is truly international, too: at the first event in 1986 were 488 exhibitors from 23 countries and 45% of guests hailed from outside Germany.

Today the figure is 65%, two-thirds from Europe and the remainder from overseas.

"Major deals are made in Düsseldorf; it serves as the global communication and business platform for industry heavyweights, SMEs and international associations alike," said Friedrich-Georg Kehler, Messe's global portfolio director for metals and flow technologies.

Exhibitors were very pleased with the customer contacts and deals made across the week.

And *wire 2016* was a huge success for the IWMA too. The association's new stand was a big hit as a place to meet and talk business for members old or new, without a company stand or just visiting.

The stand's business centre facilities and meeting room were in constant demand and became a busy hub for members and visitors alike.

We were also delighted to see so many IWMA members at *wire 2016* and at our industry dinner.



**The IWMA exhibition stand team
at wire 2016**



Industry dinner and awards

OVER 230 members and guests attended the prestigious IWMA industry dinner at *wire Düsseldorf 2016* at the Congress Center. Welcoming guests, IWMA chair Amanda Shehab said since the association was founded 46 years ago it had contributed to, and supported, the development of over 50 conferences, in Düsseldorf and around the world. “We look forward to continuing that work and expanding the support we give our members in the years to come,” she added.

The dinner was also the occasion for the presentation of IWMA awards, notably to the winners of the HW Bennett award for the best ferrous and non-ferrous technical papers from the *CabWire 2015* conference.

The non-ferrous award went to **Mr Franco Bensi** and **Mr Rupert Parmenter** of SICME Italia Impianti for the paper *Revolutionising the Wire Manufacturing Process*. The ferrous award was given to **Mr René Branders** of FIB Belgium SA. for his paper *New Design in Open Fire Furnaces*.

Mr Bensi’s paper appeared in last edition of WCN, and Mr Branders’ paper appears on page 24 of this issue.

Through its educational trust fund and travel award scheme, the IWMA actively encourages industry newcomers to gain new skills and experience. The John C Hogg travel award scheme contributes towards costs for



successful applicants to attend industry leading events.

This year’s winners (*pictured above*): **Sagar Somanche** of Sneham International, India; **Rahul Shah** of Innovites BV, India; **Jack Witherington** of Ridgway Machines Ltd, UK; **Andrew Steptoe** of Bridon International Ltd UK; **Ms Jia Qi Liang** of Shanghai Kechen Wire & Cable Machinery, China; **Ashley Cox** of Cimteq Ltd, UK; **Aran Brady** of Prysmian Cables

& Systems Ltd, UK and **Ms Sai Jyothi Sree Ramavarapu Niehoff** of India Pvt Ltd, India, received VIP invitations to the dinner, entry to *wire Düsseldorf*, toured member stands and were presented with commemorative certificates by IWMA chairman Amanda Shehab and by Daniel Ryfisch, Messe Düsseldorf’s deputy global portfolio director for metals and flow technologies.



At the exhibition:

Left: Andrew Wright and Davina Hancocks of specialist machine toolmakers Spring Tooling of Bromsgrove UK.

Right (top) the team from Holton Crest, Poole, UK, based extrusion machine manufacturer. Below right: the senior team from the IST (Institute of Spring Technology), a service for the spring industry, based in Sheffield, UK



We were there...

What some of our members had to say about wire 2016



Rosendahl Nextrom:

“THIS was a really powerful and highly energised *wire Düsseldorf*! We enjoyed being part of a show for which the entire industry gets together. “It was a very successful event that allowed

us to demonstrate what drives us to best performance. “Industry 4.0 – *Smart Factory* as we like to call it – is becoming reality and opening new doors both suppliers and manufacturers. It

is an industrial revolution that will ease information management. Our service lounge was very well received and many visitors reviewed the possibilities offered by maintenance or upgrades.”

Maillefer:

“DÜSSELDORF was very successful for Maillefer. We met many new and existing customers and partners from all over the world. “A number of new business opportunities were initiated

and agreements closed during the week, and generally we saw positive signs in the wire and cable industry. “The core theme for us in 2016 is *Competence that Counts*, which reflects our extensive background and

experience in the industry. “Several technologies in wire and cable manufacture today are our innovations.” Maillefer will be attending the Shanghai and Mumbai shows (*see China and India previews, this issue*).

Zeller+Gmelin:

“WE were pleased with the number of visitors to our *wire 2016* stand,” said Wolfgang Kienle, product manager at Zeller+Gmelin.

Many of the 300 or so visitors to the stand had travelled from abroad, mainly Europe and Asia. Wolfgang reports a larger than expected number of visitors from Iran.

“The easing of the economic sanctions against Iran has had a direct influence on trade fair contacts,” he suggests.

The total number of visitors increased by almost 30% compared to 2014.

“We were delighted that, in addition to existing customers, almost half of the visitors were prospective customers.”

Zeller+Gmelin’s *Multidraw* drawing lubricant range was a key feature of the stand.



Niehoff:

“AT *wire Düsseldorf* a large Niehoff team from headquarters, from our subsidiaries and from representative companies welcomed many visitors from all over the world. Our two-level stand was one of the largest at what was the biggest wire exhibition yet, in terms of exhibition space

“We showed our new rod breakdown machine (*MSM 86*), which offers improved wire quality, energy efficiency and cost savings. We also demonstrated our *Niehoff Original+* spare parts label; energy and materials efficiency and reducing manufacturing costs were very keen topics among visitors.

“We came to *Düsseldorf* convinced *wire 2016* would be a great success again – and we were rewarded for our efforts,” said Arnd Kulaczewski, Niehoff president and CEO.



Alloy Wire International:

“ALLOY Wire used *wire 2016* as a showcase for its new brochure, 84 pages listing more than 60 types of exotic nickel alloys, including Inconel®, Nimonic® and Ni-Span C902®. More than 300 copies were distributed to automotive, aerospace, defence, oil, medical and nuclear sectors.



Bar Products and Services:

“BAR had good reason to enjoy its visit to *wire 2016* in *Düsseldorf*: the company secured a major contract with China after discussions that began there. Bar MD Steve Rika revealed: “The contract, for machines and tooling, will be delivered in two stages and will hopefully be the start of a continuous supply relationship in the future.” Significant other orders made *wire Düsseldorf* Bar’s most successful-ever exhibition.

Gurfil:

“WE’VE been coming to *wire Düsseldorf* for 35 years; it’s the most important event on the cable industry calendar, and participating has been crucial for us. We meet current customers and make new business contacts.

“Over the five days this year more than 750 specialists, product and business development managers, R&D people and engineers from the world’s leading cable manufacturers asked for detailed information about our products. Samples were also available.

“Taking part in such a large scale event is a great experience for our team; it lets us survey our customers to find out their preferences; we make deals and meet old friends. It all helps us to deliver better products.”



Cimteq:

“AS anticipated, *wire Düsseldorf* was everything expected from exhibitors and delegates alike, and more. Numbers were excellent and the calibre of innovations was at an all-time high,” said Amanda Shehab, not just a Cimteq director but also IWMA chairman.

“We were extremely pleased with the attention our booth received from familiar visitors and new faces keen to discuss the features of our cable design and manufacturing software systems.

“The exhibition was the perfect arena for Cimteq and our partner, InnoVites, to unveil our latest joint venture, *CableSuite*, which provides a varied set of tools in one unit. *CableSuite* is a complete, fully-integrated enterprise software suite that supports all business functions of cable manufacturers and distributors.

“As anticipated, interest in the product was high and the exhibition was considered to be an extremely successful showcase by both our companies.”

René Branders is CEO of FIB Belgium SA. He has worked in R & D, engineering and quality control, including work on the development of technologies related to fluidised beds. He has worked in the wire industry since 1988, and is president of the European Committee of Industrial Furnace and Heating Equipment Association (CEOCOF).



A burning question

Open fire furnaces – a new concept for a more efficient use of energy

by René Branders

FURNACES that heat wires directly to austenise or anneal them are common in wire drawing because they offer several advantages, not least in the avoidance of heavy-metal use and extensive maintenance required by other methods.

These furnaces have not been terribly heat efficient - something that has to be addressed if many older models are to comply with forthcoming EU regulations concerning thermal efficiency and power consumption.

By using recycled combustion fumes from the furnace's burners and optimising heat transfer within the furnace by revising the internal spaces it is possible to offer a new thermal equipment category that cuts energy consumption by up to 27%.

Open fire furnaces are a familiar technology in the production of high carbon wires for the cable and low-carbon industries. With high carbon wires, the furnace's combination of convected and radiated heat converts the steel of the wire into Austenite. In low-carbon wire production, the wire is annealed. Such equipment is generally working at temperatures between 980C and 1100C.

Wires – often still with drawing residues – enter a preheating tunnel, warmed by flue gases from the downstream burners. The wires then enter a succession of burner-equipped heating zones. The zones transfer heat by convection and radiation, the latter from the burner walls back to the wire field.

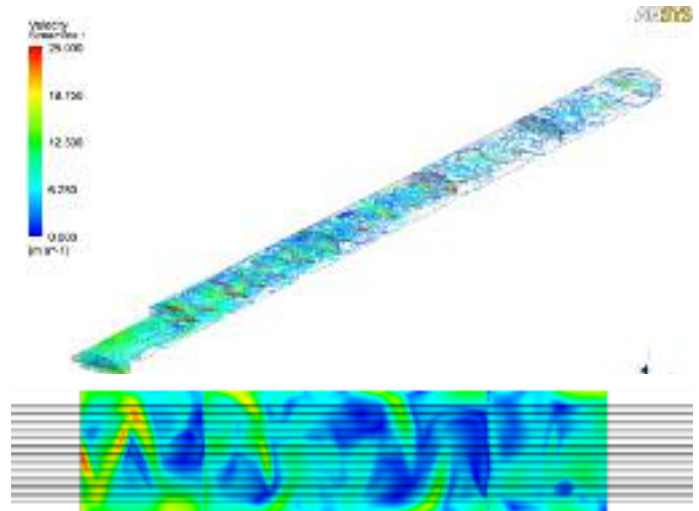
The consistency of the results depends on the capacity of the equipment to transfer heat evenly. As far as the radiated heat goes, the furnace is a "black body", with no effective way to improve radiation effects, except by minimising losses from openings.

The quality of the convected heat input thus becomes decisive. Zones of low convection caused by vortex effects or obstacles should be avoided, and high flue-gas circulation speed obtained over the whole field. Knowing this, the geometry of the furnace's inner chamber and distribution of the burners must be designed for maximum efficiency.

My company has carried out extensive thermal analysis of classically-designed furnaces and has noted disturbing elements that limit the efficiency of heat convection.

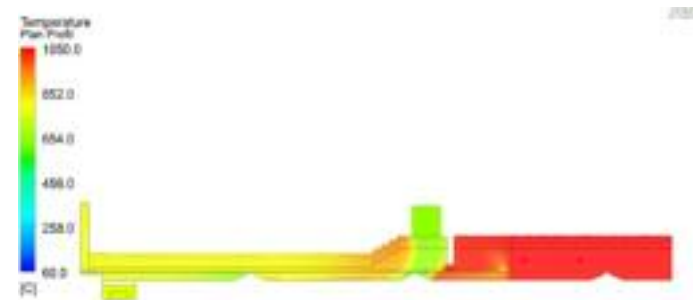
In the two diagrams top right we can see the furnace vortex. In such a swirl (lower diagram), convected heat transfer is no longer guaranteed, especially for areas outside the wire field.

The shape of the chamber and the convection effects and counter-currents also lead to a rapid concentration of flue gas in the top part of the furnace, obviously limiting heating effectiveness at the wire field below. Consequently we have seen some relatively low gas circulation speeds in the wire field, which as it happens are homogeneous and thus an advantage.



Thus burners are positioned to cover the wire field in such a way that hot gases cannot blast the wires directly, mainly by way of a judicious gap between the burner brick and the wire field. This is, however, detrimental to the speed of the hot gases across the wires.

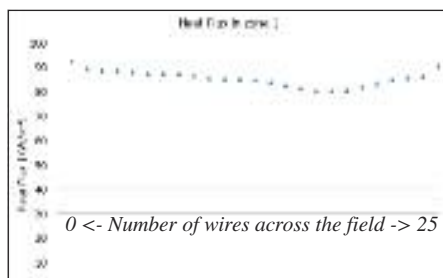
When considering recovery of flue gas from the area around the burners, we also noted some unhelpful flows on the wire bed. The introduction



of hot gas stirring fans, for instance, leads to intense convection flows inside the chamber, which can cause uneven heating of the wire field, as seen in the diagram above.

Using hot gas recovery and reapplication, the furnace is effectively divided into two zones, the first in which hot gases from the burners are redirected to the preheat zone, which has no burners; and the second, in which the wire bed is heated with convected and radiated heat.

In this configuration, convected heat is distributed according to this curve (*below*). As you see, despite the existence of convective flows in the furnace, the wire field is heated quite evenly across its width. Experience shows that such arrangements permit the treatment of wire fields up to around 1.7 metres wide, while guaranteeing even physical characteristics in the wire produced – whatever its position in the furnace wire field. Optimisation of the internal shape of the furnace and careful distribution of the burners adds a substantial increase in the convection heating speed of the wire. The curve (*top right*) shows the evolution of a wire in an optimised furnace compared to a traditional one. The wire is heated much more rapidly in the optimised furnace; preheating with heat from the burner gases is optimised, meaning the



wires can be heated to much higher temperatures than in ventilated pre-heat designs.

The consequence is better use of residual heat and an overall increase in the furnace's thermal efficiency – while saving around 1.5kW previously used on the circulation fan.

In the active heating part – where the burners are positioned – the wires enter at a higher temperature, so the power needed to heat them is reduced. In these zones too, the optimisation of the internal chambers of the furnace allows more efficient use of the convected heat.

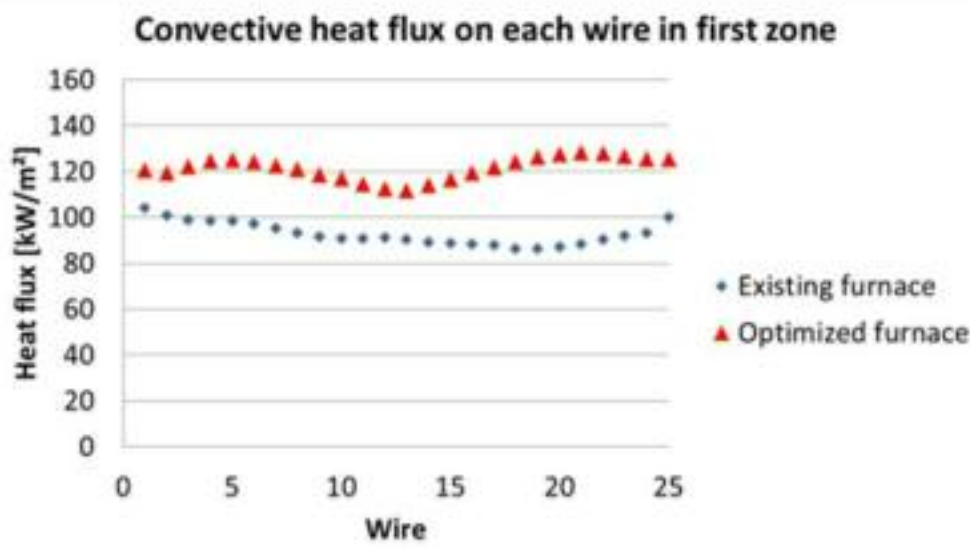
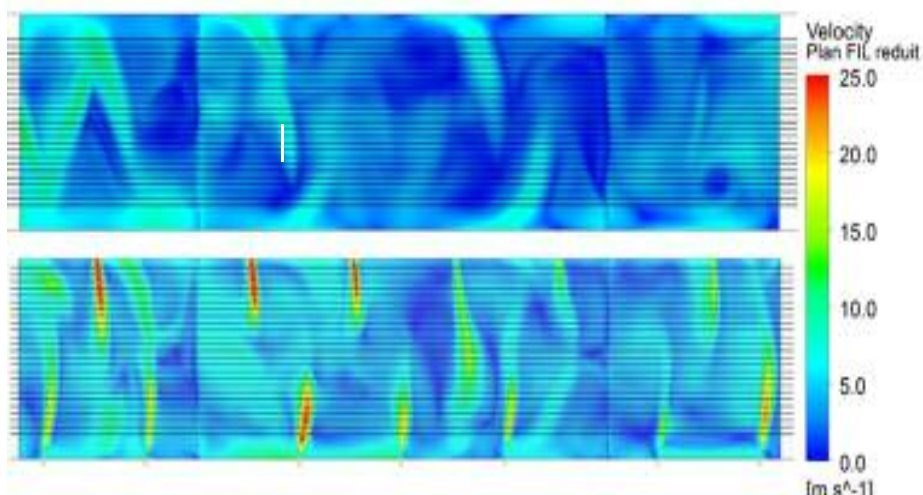
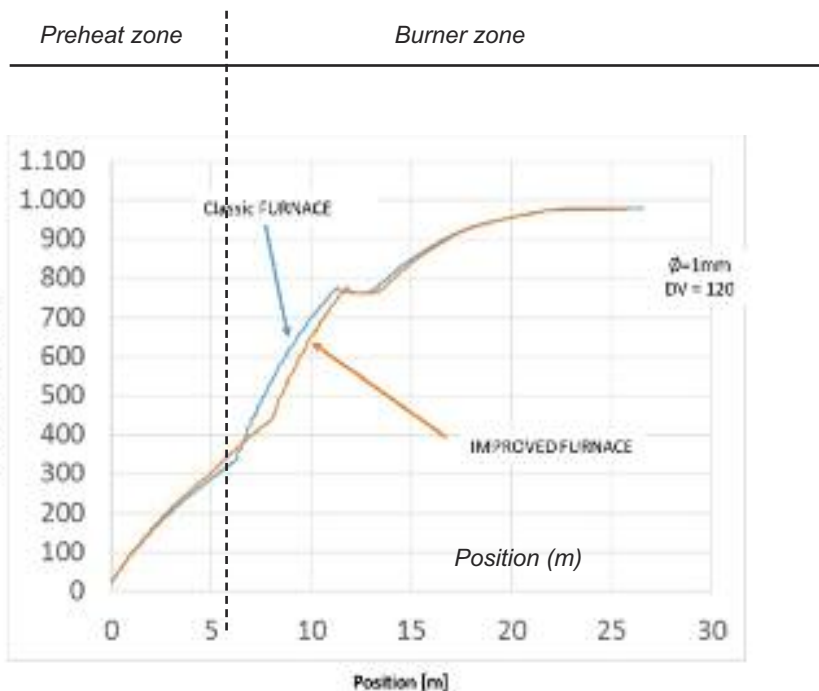
When comparing the profile of the gas speed in this new configuration (*right, centre*), with the previous flow diagram (*previous page*) we see not only a useful increase in convected heat transfer, but also more even heat distribution across the whole wire field, as you can see in the chart above right.

The result of these changes for our example furnace was an overall efficiency improvement greater than 10%-15%. The optimal use of the residual flue-gas heat requires a slight extension of the preheating zone, but nonetheless allows operation without stirring fans at high temperature, reducing cost.

The optimisation of convected heat within the chambers leads to a substantial decrease in the overall power consumption of the equipment, and thus of the cost of production.

This solution to a common situation is based simply on optimising the shape of the furnace, nothing more, but permits operation without high-consumption auxiliaries that can break down easily and are very expensive to maintain.

The change also conforms to forthcoming European policy related to furnace design and energy use, due to be imposed on existing equipment throughout Europe.



Fire and the wire

New IWMA member BASEC is at the forefront of measures to comply with new and all-encompassing cable fire resistance regulations

COME July 2017, pretty much every coil of cable made or sold throughout the EU will need to be CE safety-marked for its resistance to fire.

The move follows the EU Construction Products Regulation, aimed at harmonising the sale of all types of cables, from power to electronic control cables, used in building and construction, placing each type of cable in different classes according to their test results and intended usage.

The introduction of CPR for cables will have a significant impact on all cable manufacturers, importers and distributors supplying any type of cable intended to fit permanently into the structure of a building – including power distribution, final circuit wiring, control and instrumentation and data communications cables to European markets.

The CPR covers all kinds of construction, from domestic housing to major projects, and applies a common approach to testing and approval but requires tougher approvals depending on the final use of the materials: house construction doesn't require as tough a certification as, say, hospitals or public buildings. The initial result of the introduction of the CPR is a uniform approach to certifying reaction to fire.

Cables already certified fire resistant aren't required to be approved again, but all other cables must be tested and receive approval for their heat release, flame spread and smoke and acid gas emission levels.

Cable manufacturers will in most cases need to find what is termed a "notified laboratory" or "notified product certification body". Cable wholesalers and distributors supplying into European markets will also need to ensure the manufacturers they work with have done this.

So while members of the public will see little more than a safety mark on cable bought from 1 July, 2017 (in the UK the CPR affects only the sale of cables, not their use), in the run up to that date, which is when the changes become mandatory, manufacturers and suppliers will have had only one year to have potentially hundreds of cable types tested and approved for sale.

As the premier service for the testing and approval of cables in Europe, BASEC is in the middle of the new certification regime and has invested a considerable amount of money on test equipment for

the changes – such as the vertical test ladder seen in the picture (right). This can apply standard flame, position and air flow criteria for each test. The company has also bought re-configurable fire test chambers for fire resistance and circuit integrity testing, and is about to be named a "notified body" for the whole of Europe, capable of issuing approvals certificates.

BASEC chief executive Jeremy Hodge pointed out: "Wholesalers, distributors and manufacturers will be faced with a substantial administration task to comply with CPR.

"With a range of cables to deal with, and possibly three to four suppliers for each cable, they will need to check that each product complies before it can be sold.

"The ruling will be enforced by Trading Standards, so there are clear incentives to become well organised early."

The UK's exit from the EU, when it happens, will make little difference to the need to comply, Dr Hodge suggests.

"There will be at least two years while exit terms are discussed and CPR will still apply to all construction cable sales in the EU and UK, up to the point a decision is made," he explained.

After leaving the EU, the UK will join other world manufacturers supplying in Europe in needing the same certification. UK legislators are likely to rubber stamp the CPR directive into UK law anyway, and if they don't, UK specifiers are unlikely to demand less for UK projects than is required just across the English Channel.

Because the legislation applies such wide-ranging demands, BASEC is currently running training seminars for makers and suppliers across the UK, Europe, Asia and the Middle East to make sure their deliveries to the EU comply by mid-2017.

"The amount of interest we've had in training demonstrates the importance of compliance with EU standards across the world cable industry," said Dr Hodge.

"Our advice is to initiate preparatory activity now.

"A year is a very short period of time for the introduction of such a significant regulation and it is important that manufacturers and suppliers are ready for enquiries from their customers."



www.basec.org.uk



The IWMA promotes the learning of new skills and gaining experience for tomorrow's talent.

Whether a member company is thinking of recruiting an apprentice or helping an apprentice to attend night classes or acquire higher specialist qualifications, funds could be available to help.

The Walter Niehoff Scholarship

The scholarship provides funding to train individuals supported by member companies. Applications can be made through the IWMA website at any time.

John C Hogg Travel Awards

The IWMA gives young people new to the industry the chance to attend major industry events, like *wire Düsseldorf* and *CabWire*, by contributing towards travel costs.

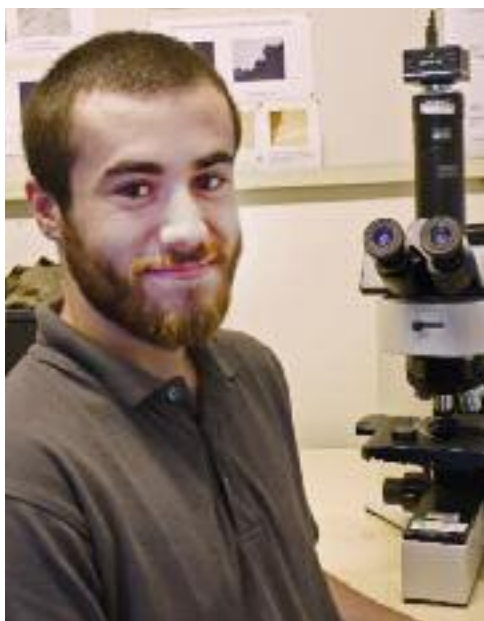
Successful applicants get to learn about the latest innovations and meet influential industry people.

University Links

The IWMA is working with such universities as Southampton and De Montfort, to find ways of working together – for example on research papers or training placements.

"We are here to help our members secure their future by training the next generation of wire industry professionals," says Peter Large, the IWMA's technical committee chairman. "We want to hear from members about their training plans and wherever possible, the IWMA will be there to support them."

Visit the IWMA website:
iwma.org/education



Adam proves his metal

The latest recipient of the Walter Niehoff Scholarship takes on a challenging university degree course to fill a specialist role with the Institute of Spring Technology.

THE IWMA Educational Trust provides funding through **The Walter Niehoff Scholarship** to train individuals supported by a member company.

The latest recipient of the scholarship is 21-year-old Adam Burgess of the Institute of Spring Technology (IST) in Sheffield, UK.

Adam began his career in CNC machining and completed a two-year NVQ level 2 course, followed by a two-year BTec level 3 – which he finished with the support of the IST when he joined the company a little over two years ago.

Now he is studying at Sheffield Hallam university for a B Eng (Hons) in materials engineering, which includes electrical engineering and thermodynamics and offers a thorough grounding for his future role.

Adam will eventually become the IST's metallurgist, taking over from Margaret O'Malley, (right) who retires in January 2017 after almost 40 years with the company.

Margaret joined the IST in September 1978 as a graduate metallurgist in the materials department. She gradually became more involved in answering technical questions from members, as well as helping to develop training courses and other services for the spring industry. Adam won't be taking over from



Margaret immediately, but will take on more responsibility as he completes his course and gains experience. Eventually, he will be troubleshooting technical

problems and working as a consultant, visiting member companies to build experience.

Adam began a three-year foundation course in September 2015 and will attend university one day a week for five years, finishing in 2020.

Adrian May, CEO of the IST (below left), applied for funding help from the IWMA.

"We need to train a metallurgist to replace Margaret when she retires," he explained.

"But the cost for academic qualifications can be very high, and because the IST works virtually as a not-for-profit organisation, paying for training would have been a struggle.



"When I heard IWMA member companies could get IWMA funding for training, we applied and were lucky enough to be accepted, which was great."

The IWMA Educational Trust will fund 50% of Adam's university course.

"Before the metallurgist position became an option, I had been thinking about doing an HND in mechanical engineering," Adam said.

"But this was just too good opportunity to miss and I really wanted to do it.

"The course is very demanding and doesn't leave much time for my hobbies – mixed martial arts and my bike, but I am keen to push myself.

"Moving from production to testing and troubleshooting is a big change, but I'm looking forward to the challenge."

Membership Application Form

We, the undersigned, wish to apply for membership of the above association and agree to pay the annual fee of US\$280.00, €245.00 £150.00 (+ vat for UK)

Company name:..... Tel..... Fax:.....

Address:..... Email:.....

..... Website:.....

..... Name:.....

..... Job title:.....

What do you manufacture/supply?.....

..... Signature:.....

How did you hear about the IWMA?..... Date:.....TVA/VAT number.....

What is the key member benefit for you?.....

.....

Return your completed application form to:

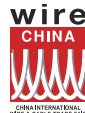
IWMA, Wellington House, Starley Way, Solihull, B37 7HB, UK

Tel: +44 121 781 7367 • Fax: +44 121 781 7404

Email: info@iwma.org

Or make it simple: apply online at www.iwma.org/join

Industry partner to the major wire and cable exhibitions



Welcome to our new members

Asia Sim Co, Iran

Based in Tehran Asia Sim manufactures high and low carbon steel wire.

www.asiasim.ir

ACOTEQ GmbH, Germany

Specialising in expert knowledge, equipment and services for the wire and cable industry.

www.acoteq.com

BASEC (British Approvals Service for Cables), UK

A non-profit making independent body, BASEC has for nearly 40 years been a mark of reassurance to those specifying cable.

www.basec.org.uk

Dongguan XinMei Precision Mold Co. Ltd, China

Specialising in the production and development of diamond wire drawing dies and wire reels.

www.dg-xinchang.com

FUCHS Lubricants (UK) Plc, UK

FUCHS is the world's largest independent lubricant manufacturer.

www.fuchslubricants.com

Guidetti srl, Italy

Guidetti provide solutions to recycling needs through research and the development of innovative products in the fields of industrial scrap recycling and inerts' crushing.

www.guidettisrl.com

Induflex N.V., Belgium

Induflex makes flexible multi-layer tapes for electrical, electronic and other industrial applications.

www.induflex.com

LA. M. PLAST S.A.S., Italy

One of Europe's leading thermoplastic and rubber compounders.

www.lamplast.it

Lewis Wire Ltd, UK

A leading supplier of high quality wire to companies throughout Europe.

www.lewiswire.co.uk

Nanjing Zhongchao New Materials Corporation, China

A leading manufacturer of polyolefin compounds for the power and telecommunication industries.

www.zcnewmaterials.com

OB Mallas SRL, Bolivia

OB Mallas manufactures chain link wire mesh, barbed wire, hexagonal mesh and gabion boxes.

www.obmallas.com

Oden Technologies Ltd, UK

A major supplier of advanced analytics such as monitoring realtime data, diagnosing problems and seeing trends by product, shift, line, or factory.

www.oden.io

Prysmian Group, UK

A world leader in the energy and telecom cable systems industry, listed on the Italian Stock Exchange in the FTSE MIB index.

www.prysmiangroup.com

Qingfeng Electrical Technology

Co Ltd, Hong Kong

Qingfeng Electrical designs and manufactures cable machines.

www.dgqfmc.com

Sant Engineering Industries, India

Sant manufactures and exports machinery for wire and cables extrusion lines and plastic machinery.

www.santengineeringindustries.co.in

Tianjin Goldsun Wire Rope Ltd, China

A pioneer in the development and manufacture of wire ropes and market leader in the manufacture and supply of wire rope products.

www.goldsunchn.com

Üntel Kablo A.S, Turkey

One of the leading cable manufacturers in Europe with manufacturing experience in marine, offshore, mining, railway and various instrument types.

www.untel.com.tr

Windak Group, USA

The largest supplier of automatic packaging equipment for the cable industry in North America.

www.windakgroup.com

WTI Fasteners Ltd, UK

WTI has manufactured inserts to a variety of industry accredited quality standards since 1989.

www.wireinserts.com

YTC America Inc, USA

The North American research and development laboratory of the Yazaki Corporation, a Japanese supplier of automotive wire harnesses with global operations in over 40 countries.

www.ytca.com

Zeller+Gmelin GmbH & Co. KG, Germany

Backed by years of research and development, Zeller+Gmelin produces market leading lubricants, industrial chemistry and printing inks.

www.zeller-gmelin.de