

Bulletin

Association of Electrical & Mechanical Trades

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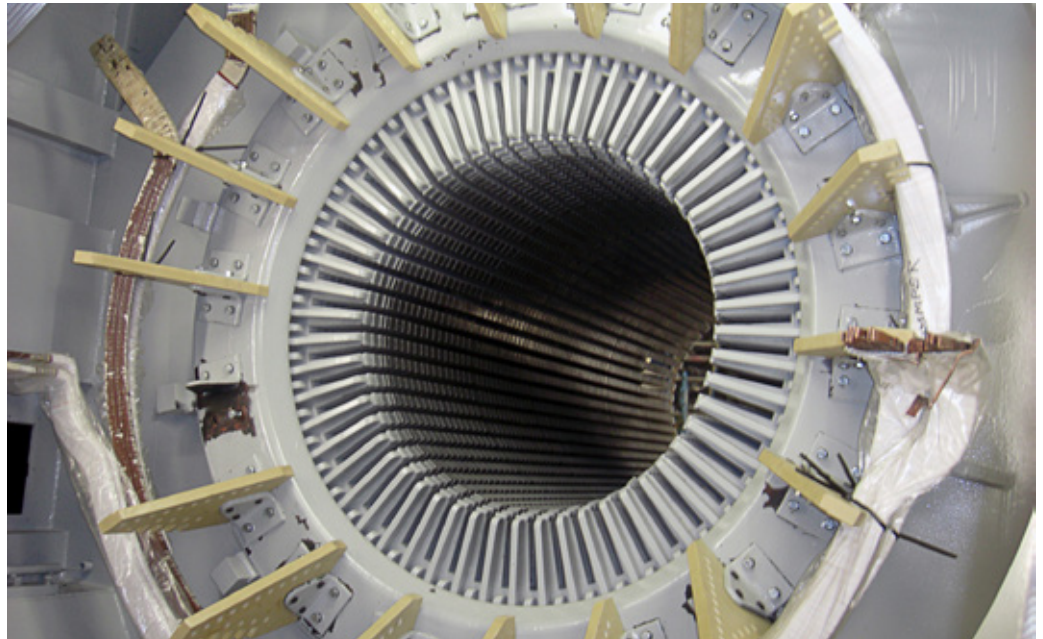
AEMT Website

AEMT website

All the news found in this newsletter is also available to read on the new website.

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www.aemt.co.uk/news



The 42kVA generator, operating at 11.5kV, was originally built in 1986, but after more than 25 years in service, the time had come for an overhaul

Generator Repair Keeps The Lights On In Darwin

The power station in Darwin started life as a 200MW gas fired installation with three gas turbine generators that started full production in 1987. Having provided the population of Darwin with electricity for 25 years, it was important to ensure the generators continued to provide reliable service. This led to the owners calling on the services of Sulzer to carry out an overhaul of the generator including a rewind of the stator.

The 42MVA generator, operating at 11.5kV, was originally built in 1986, but after more than 25 years in service, the time had come for an overhaul. Using OEM drawings, combined with the latest CAD, the

engineers at Sulzer were able to start on the initial design stages and plan the logistics that would allow the contract to be completed on time.

Once the project was underway, two teams of Sulzer engineers, on opposite sides of the world, set about the wide range of tasks required to complete the refurbishment. The service engineers on site in Darwin began with dismantling the generator, while in Birmingham, UK, the coil shop worked on the design of the new high voltage bars and the dummy stator that would be used to check the dimensions of every one of the 108 bars as well as the support blocks for the windings.

Generators can be installed with a variety of coil designs, including 'frog-leg' coils and diamond coils but larger machines more commonly have bar wound stators, mainly because of the sheer size of a finished coil makes handling difficult. Once the bars have been installed the coils are formed by connecting the relevant bar ends together, brazing and then taping.

Throughout the manufacturing process quality control is essential; starting with the controls over raw material quality to measuring every coil for dimensional accuracy to the final electrical tests. Every process is checked against the original drawings and specifications to ensure that the

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Every bar is tested in the dedicated test cell with the results recorded and kept in the engineering archives

“Improved production techniques and insulation technologies allow modern coils to improve the efficiency and reliability of existing equipment...”

>> finished product can be easily assembled and produce efficient and reliable service for many years to come.

For Sulzer, the production process for the new bars starts with the raw copper, which is processed using its own in-house facilities to draw and anneal the base copper.

The copper strip is manufactured to exacting tolerances before being coated with the first layer of insulation and cut to length.

Each strip is then layered together with many others to make up the basic bar construction, but, its position within the bar must be transposed by 360° in order to reduce eddy current losses. This is a crucial design characteristic and is more commonly known as the Roebel transposition, which would be required in the bar design for this generator.

Once the strips have been properly arranged, a resin tape is applied and they are consolidated in a heated, hydraulic press which ensures the alignment of the conductors within the slots; this is crucial for delivering the maximum efficiency of the refurbished generator.

Meanwhile, in Darwin, the generator was being dismantled and showing signs of its age with some considerable oil

contamination of the stator windings being discovered. Having recorded all of the necessary measurements, the old coils were removed and the stator thoroughly cleaned before the core was flux tested.

The flux test is used to measure the condition of the stator core insulation and thus detect any local insulation damage, which can cause the formation of larger eddy currents and local hot spots. Once complete and with a clean bill of health, the stator could be repainted and the rebuild process got under way.

This generator design consists of 54 bottom bars and 54 top bars, all of which have to be manufactured to tight tolerances in order to ensure they fit exactly into the stator slot. Each bar has to be formed and shaped by hand, using the CAD-designed, wooden formers that allow every bar to be produced with exactly the right shape and dimensions. The final shape is then checked again in the wooden dummy stator that was constructed earlier.

Every bar is tested in the dedicated test cell with the results recorded and kept in the engineering archives. Testing includes $\tan \delta$, which relates to the power factor of the bars as well as strand-to-strand short circuit testing and

the outer corona protection (OCP) surface resistance measurement.

Mike Stanley, General Manager of Sulzer’s Birmingham Service Centre, explains: *“Improved production techniques and insulation technologies allow modern coils to improve the efficiency and reliability of existing equipment. Throughout the manufacturing process quality control is essential to maintain production of high quality, uniform coils.”*

“Starting with the controls over raw material quality to measuring every coil for dimensional accuracy to the final electrical tests, every process is checked against the original drawings and specifications to ensure that the finished product can be easily assembled and deliver reliable and efficient service for many years to come.”

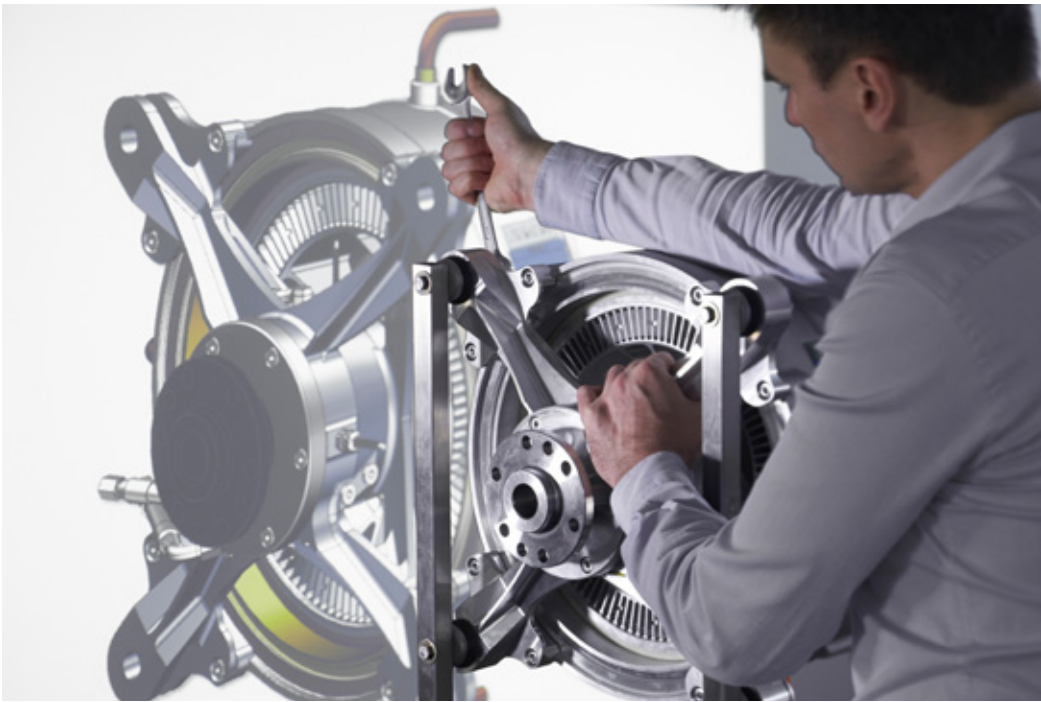
At this point the logistics team at Birmingham take over, having already constructed the shipping crates for the bars. Carefully packaging the bars to ensure they arrive undamaged is crucial to ensuring a trouble-free installation in Darwin. The shipment is timed to coincide with the disassembly of the stator on site, so as to avoid any unnecessary delays.

Once all 108 bars have been installed and secured to the end winding brackets, with wedges

in place, each bar is subjected to a final high voltage test to be certain that none of the insulation has been damaged during the installation process. With the test results recorded in the project file, the next step is to braze the bar end windings together in order to create the final coils, before taping, sealing and applying the class “H” top glass tape.

With the stator nearly complete, the high voltage terminals were cleaned and tested at 25kV to prove their insulation resistance before they, too, were installed. Having completed the checks and minor work to the rotor, the generator was reassembled and returned to service, ready for another 25 years.

Mike Stanley concludes: *“Our engineers are frequently involved in the development of new technical standards as well as new materials technologies, allowing us to develop new designs in line with the latest standards to provide our customers with improved efficiency and reliability. We work with a wide range of clients from small, local rewind shops to large end users and global OEMs and for each one we are able to tailor the level of engineering and technical support to ensure that every job, however big or small, will be completed on time and to the highest quality.”* ■



To implement the world-record motor, Siemens' experts scrutinized all the components of previous motors and optimized them up to their technical limits.

Siemens Develops World-Record Electric Motor For Aircraft

Siemens researchers have developed a new type of electric motor that, with a weight of just 50 kilograms, delivers a continuous output of about 260 kilowatts – five times more than comparable drive systems. The

motor has been specially designed for use in aircraft. Thanks to its record-setting power-to-weight ratio, larger aircraft with takeoff weights of up to two tons will now be able to use electric drives for the first time.

To implement the world-record motor, Siemens' experts scrutinized all the components of previous motors and optimized them up to their technical limits. New simulation techniques and sophisticated lightweight

construction enabled the drive system to achieve a unique weight-to-performance ratio of five kilowatts (kW) per kilogram (kg). The electric motors of comparable strength that are used in industrial applications deliver less than one kW per kg. The performance of the drive systems used in electric vehicles is about two kW per kg.

Since the new motor delivers its record-setting performance at rotational speeds of just 2,500 revolutions per minute, it can drive propellers directly, without the use of a transmission. "This innovation will make it possible to build series hybrid-electric aircraft with four or more seats," said Frank Anton, Head of eAircraft at Siemens Corporate Technology, the company's central research unit. The motor is scheduled to begin flight-testing before the end of 2015. In the next step, the Siemens researchers will boost output further. "We're convinced that the use of hybrid-electric drives in regional airliners with 50 to 100 passengers is a real medium-term possibility," said Anton.

In 2013, Siemens, Airbus and Diamond Aircraft successfully flight-tested a series hybrid-electric drive in a DA36 E-Star 2 motor glider for the first time. The test aircraft had a power output of 60 kW. ■

Houghton International To Invest £1m After Bumper Year

Electro mechanical engineering specialist Houghton International exceeded its £5 million turnover target in 2014, leading to record profit representing a 25% year on year growth and £1million investment plans for the Newcastle based firm.

Strong sales performance and infrastructure improvements have resulted in record results for the financial year to January 2015. Growth comes from expansion into new sales territories in the UK and overseas, long term contract wins in the rail sector and sustained

development in its core HV coil business.

Michael Mitten, CEO of Houghton International, commented: "In addition to our forecasted sales, profits in 2014 were bolstered by several large motor rewind projects for overseas power producers. We have also secured some strategic long term contracts that put us in a robust financial position moving forward.

"To exceed our target and break the £5million barrier for the first time is a fantastic achievement,

especially in our 30th year in business.

"We plan to invest a further £1million into the business this year, financing new machinery, people development and factory enhancements to enable us to compete in developing markets and continue to meet our customer's needs. This supports further double digit growth for 2015.

"We've set the challenge to hit £20million turnover by 2020 and are confident that our highly skilled

workforce, innovative culture and reputation for quality will help us grow the business even further, both in the UK and further afield."

To support this the company expects to take on around 150 new employees, invest £2million into R&D and expand into new manufacturing space to accommodate the increase in demand over the next five years. Houghton International has also committed to taking on six new apprentices this year, following the graduation of four of its current recruits with HNC qualifications. ■



Her Royal Highness The Princess Royal was given a tour of the new facility by Arthur Grant, the Service Centre Manager.

HRH The Princess Royal Opens New Sulzer Service Centre

As part of the huge redevelopment of Middlehaven, the historic heart of local industry in Middlesbrough, Sulzer has relocated its Service Centre to a brand new, purpose-built facility that was officially opened by Her Royal Highness The Princess Royal on 23rd March 2015. The new £4.5 million Service Centre is part of the national engineering and repair facilities that enable

Sulzer to offer a true 24/7 service for engineering solutions across the UK.

Relocating to the new site has enabled Sulzer to demonstrate its commitment to the North East by expanding the size of the new facility by over 25%. The expansion has also enabled Sulzer to create a new state-of-the-art metal spraying and testing facility.

Middlehaven is one of the North-East's largest and most exciting regeneration schemes, covering an area of approximately 57 hectares (140 acres).

Middlesbrough Council and the Homes and Communities Agency (HCA), which is responsible for the regeneration project, has partly funded Sulzer's move to the new site.

Once fully operational, the new Service Centre will offer a full complement of repair and refurbishment services for motors, pumps and generators as well as repair and upgrade services for many types of drive and control systems. In addition, the engineering workshop will deliver a wide range of mechanical repairs and machining services while on-site engineers will deliver balancing, vibration analysis and laser alignment services.

The experienced project management team helps a diverse range of clients to ensure that their mechanical and electrical repairs are delivered on time in the most cost effective way.

Fast and effective troubleshooting and performance analysis allow these maintenance experts to improve reliability and operational efficiency for a large number of applications. ■



AEMT Training Calendar

*Alteration

2015

May 12-13th	Loughborough	Ex Theory Course	Mod 1
May 14-15th	Loughborough	Ex Hands-on Course	Mod 2
May 19-20th	Loughborough	Ex Hands-on Refresher	Mod 3
June 1-2nd	Malaysia, KL	Ex Theory Course	Mod 1
June 3-4th	Malaysia, KL	Ex Hands-on Course	Mod 2
June 15-16th	Aberdeen	Ex Theory Course	Mod 1
June 17-18th	Aberdeen	Ex Hands-on & Refresher	Mod 2R
*June 15-16th	Cape Town TBC	Ex Theory Course	Mod 1
*June 17-18th	Cape Town TBC	Ex Hands-on & Refresher	Mod 2R
June 29-30th	Isle of Man	Ex Hands-on Refresher	Mod 2R
September 8-9th	Loughborough	Ex Theory Course	Mod 1
September 10-11th	Loughborough	Ex Hands-on Course	Mod 2
September 15-16th	Loughborough	Ex Hands-on Refresher	Mod 3
September 28-29th	Thailand	Ex Theory Course	Mod 1
September 30-1st	Thailand	Ex Hands-on & Refresher	Mod 2R
October 13-14th	Loughborough	Ex Hands-on Refresher	Mod 3
October 19-20th	Singapore	Ex Theory Course	Mod 1
October 21-22nd	Singapore	Ex Hands-on & Refresher	Mod 2R
November 2-3rd	Aberdeen	Ex Theory Course	Mod 1
*November 4-5th	Aberdeen	Ex Hands-on & Refresher	Mod 2R
November 16-17th	Qatar	Ex Theory Course	Mod 1
November 18-19th	Qatar	Ex Hands-on Course	Mod 2
November 23-24th	Qatar	Ex Hands-on Refresher	Mod 3
December 1-2nd	Loughborough	Ex Theory Course	Mod 1
December 3-4th	Loughborough	Ex Hands-on Course	Mod 2
December 8-9th	Loughborough	Ex Hands-on Refresher	Mod 3



EMIR Open Day On June 9th

Solutions in IT is hosting a special open day at the Old Trafford to showcase its EMIR software.

Now in its 21st year of development, EMIR, short for Electro-Mechanical Information Resource has a range of over 18 modules and Extensions designed to accommodate all manner of business types in the industry.

"The direction of the product is driven by the requests and feedback from our users, so it's important we facilitate a user conference annually." Gary Downes, Director of Solutions In I.T.

He adds. *"This year we've chosen the Old Trafford for its excellent facilities and location, along with the opportunity to soak up the atmosphere of one of the Worlds most successful organisations."*

The day will include a team talk: an introduction to the members of the EMIR team; coaching; presentations on new features and products released within the last year; a look behind the scenes and a tour of the stadium."

The day promises to add value to existing EMIR installations and an insight into the direction of product development.

More information can be found online at: <http://www.solutionsinit.com/news/special-edition> ■



Successful AEMT Training In Balikpapan

Brian Philpott, the lead lecturer for the AEMT from Loughborough College, supported by the AEMT secretariat, carried out a successful training course in Balikpapan, Borneo.

The AEMT training courses in Ex

Equipment Repair, Overhaul and Reclamation are based on the theory and practical hands on aspects of BS EN IEC 60079:19.

They cover many Ex protection concepts including flameproof, increased safety, non-sparking and dust equipment.

In total, 16 engineers successfully passed the assessments including delegates from Total E&P, and AEMT members from PT SWTS Indonesia, and PT Sulzer Turbo Services. We are very grateful for the support of Hadi Sukanto of PT Hidup Baru for helping us deliver the courses.

GES Opens Mallusk Operation

GES Group welcomed customers, key members of industry, and special guests to their Mallusk Open Day, held on Wednesday 11th March, 2015.

The Open Day showcased the Group's recent £300,000 investment in their Mallusk premises, which included an extension and significant refurbishment, creating a 26,000 sq. ft. purpose-built facility. The company also highlighted their recent re-brand, which has seen their wide variety of products, services and specialisms presented in 5 key areas: Process Automation, Power & Rotation, Renewable Power, Power Systems and Technical Sales.

The day began with a series of Information Workshops from GES suppliers and partners Eaton, Schneider, OEM, Brook Crompton, and SMC, providing guests with a unique networking opportunity.

Welcoming the Group's recent investment, Invest NI's CEO Alastair Hamilton, said: "GES Group is an excellent example of a local company that is continuously pursuing new opportunities and evolving to meet changing customer demands. The recent investment in marketing and job creation, supported by Invest NI, will enable GES to seek out new customers while the new staff at Mallusk and Ballymena will

ensure the capacity to service its expanding customer base."

The Mayor of Newtownabbey, Alderman Thomas Hogg, opened the Speakers' Address by congratulating GES Group on their success, performance and growth over the past five years, "I'd like to congratulate Tom Grant, David Moore, the Management Team of GES and all of their staff for achieving real growth for the organisation, and look forward to being able to support the business with more development initiatives in the future. I wish you the best of luck going forward."

Managing Director, David Moore, commented, "The Open Day for our Mallusk facility was no doubt a landmark for GES Group - we provided customers with a guided tour of our new facility, and launched our new Company structure, culture and vision.

I'm excited to see the next phase of our Company's growth and development plans - we are introducing a new Management Information System, exploring new markets and exporting opportunities, and are continuing to invest in our employees - through training programmes, Apprenticeship programmes and much needed and necessary up-skilling. There is much more to come from GES Group."

New AEMT Members

Hazardous Area Member:

NORTHERN IRELAND WATER
40 Old Westland Road, Belfast, BT14 6TE
Tel: 08457 440088
Email: adrian.atkinson@niwater.com
Website: www.niwater.com
Contact Name: Adrian Atkinson (M & E Area Manager)

Contact Name: Daniel Dawang (Assistant General Manager)

BRANCH:
H.F.SCHROEDER (W.A.) LTD
Plot 477, Trans-Amadi Industrial Layout, Port Harcourt, Rivers State, Nigeria
Tel: 00234 8067940023
Email: infoph@hfschroeder.com

Full Member:

INDUSTRIAL PUMPS LTD
E3 Quintec Court, Barbot Hall Industrial Estate, Rotherham, S. Yorks S61 4RN
Tel: 01709 836089
Fax: 01709 837525
Email: sales@industrialpumps.co.uk
Website: www.industrialpumps.co.uk

PT DUTA SARANA ENGINEERING
Jln Ngagel Jaya Indah No. 8, (Block B3-5), Surabaya, Indonesia
Tel: 0062 31 5031305
Email: marten.setiawan@dutasaranaeng.com
Website: www.dutasaranaeng.com
Contact Name: Marten Setiawan (Director)

Associate Member:

NTN BEARINGS UK LTD
Unit 11 Wellington Crescent, Fradley Park, Lichfield, Staffs WS13 8RZ
Tel: 01543 445000
Email: michael.wooldridge@ntn-europe.com
Website: www.ntn-snr.com
Contact Name: Michael Wooldridge (Head of Industrial Aftermarket)

TMTEC TRAD. & TECHNICAL SERVICES LLC
Post Box: 455 Mina Al Fahal, Postal **Code:** 116, Sultanate of Oman
Tel: 00968 2459 5848
Email: info@tmtecoman.com
Website: www.tmtecoman.com
Contact Name: Gautam Mukherji (General Manager)
Mohammed Haroon (Deputy General Manager)

International Members:

H.F.SCHROEDER (W.A.) LTD
Plot 3, Block D, Apapa-Oshodi Expressway, Amuwo Odofin, Lagos, Nigeria
Tel: 00234 8030520150
Email: mrhfschroeder@gmail.com or dan.schroeder26@yahoo.com
Website: www.hfschroeder.com

Any Changes?

Please check your company profile page(s), by searching for your company name from the homepage. If there are holes, gaps or things missing that you expected to see on the page please let us know what needs adding/removing.

Contact admin@aemt.co.uk or call 00 44 (0)1904 674 899

www.aemt.co.uk/search

Equipment For Sale

Electric Motors Ltd

Unit B, Lyttleton Road, Northampton. NN5 7ET
Telephone: 01604 587700
Fax: 01604 580073
Web: www.elemoto.com
Email: enquiries@elemoto.com

SURPLUS 3 PHASE MOTORS

Electric Motors Ltd - Northampton have a few motors that are surplus to their requirements. They are all new and unused.
Leroy Somer, 9kw, 4 pole, 132 frame, B3 (both B5 & B15 flanges available)

Leroy Somer, 9kw, 2 pole, 132 frame, B3 (both B5 & B14 flanges available)
Leroy Somer, 30kw, 2 pole, 200 frame, B3
Leroy Somer, 30kw, 4 pole, 200 frame, B3
Leroy Somer, 37kw, 2 pole, 200 frame, B3
Leroy Somer, 37kw, 4 pole, 225 frame, B3
Leroy Somer, 90kw, 4 pole, 280 frame, B3 - 2 off
Leroy Somer, 280kw, 2 pole, 315 frame, B3 Drip proof
WEG, 18.5kw, 2 pole, 160 frame, B3-B5 flange available

Lawton Electrical Services Ltd

Axial Fan Unit
Unused fan unit for sale as follows:
1 Nuaire circular cased axial fan complete with 4kW motor 950rpm, Type AX100DP-623, 140kg, 400V, 50Hz, 9.4amps Incorporating one metre diameter fan

Photographs of same can be transmitted to those interested or inspection at our Service Centre by prior arrangement with Stuart Lawton or Steve Peel
Tel: 01484 851355



Job Positions Available

Deritend

Mechanical Fitters, Motor Rewinders & Machinists

Location: West Midlands

Due to our continuing growth and development Deritend have a number of opportunities and are looking for qualified skilled engineers.

- Ideal candidates will have completed a full mechanical apprenticeship (City & Guilds).
- Engineers will be expected to work in our Midlands Division locations with a potential for site work for our key customers.
- Experience of the some or any of following would be beneficial to applicants
- Refurbishment of pumps, gearboxes, motors and rotating plant and equipment;
- Repairing and refurbishing centrifugal split case, end suction, multi-stage ring section, vertical turbine and submersible pumps;
- Operation of machines and equipment including lathes, millers with conventional bench work and ability to work in breakdown situations;
- LV/HV stator and armature winding.

Contact Details:

To apply please forward a copy CV to HR&payroll@deritend.co.uk or call 01902 426354 for more information

EMR Silverthorn Ltd

Electrical And Mechanical Fitter

Location: Greater London

- The candidate must be familiar with all aspects of AC motors ,pump and fan repair and installation.
- Qualifications would be an advantage but experience and problem solving attitude will count towards a successful application.
- The role will be based at our repair facility in which is within walking distance of Alperton tube station, but if required the role will require some on site work and so a clean driving licence is required.
- Pay is commensurate with experience and skills and there is scope for progression for the right person.

Contact Details:

If you think you would like to be part of a team in a long established but forward looking company please submit your CV with a covering letter outlining your expectations to.

Chris Fletcher, EMR Silverthorn Ltd, Unit 1 Manor House Business Park 97 Manor Farm Road, Wembley, HA0 1BN. chris@emrsilverthorn.co.uk

RE Field Services Ltd

High Voltage (HV) Test Engineer

Location: Yorkshire & Humberside

Key Responsibilities

- Perform an extensive range of electrical tests to approved safe procedures and relevant standards on a large range of electrical machines.
- Accurate recording and analysis of results.
- Writing of clear and concise technical reports including conclusions and recommendations.
- Liaison with customers over technical queries.
- Fault finding and emergency call out site support.
- Supporting multidiscipline teams of field service engineers during site projects.
- Supporting technical assessments of customer machines in works.
- Maintaining test and equipment records.
- Assisting with the further development and expansion of test facilities and equipment.

Key Qualifications and Experience

- Proven track record of conducting diagnostic testing including IR/PI, Tan δ , Hi Pot, PD, ELCiD, RSO & HF within a similar motor/generator service or manufacturing environment.
- Educated to minimum HNC/HND level in a relevant engineering or technical discipline.
- Have practical experience in high voltage electrical testing of large electrical machines.
- Knowledge and experience of working to standards.
- Self-motivated with a high regard for safety and quality.
- Fluent English speaking with good verbal, computer and written skills.
- Highly organised and able to work with minimal supervision or within multi-skilled team.
- Familiarity with Automatic Voltage Regulators, Excitation Systems, Generator Protection Schemes and I & C circuitry would be an advantage.

Contact Details:

Interested applicants can apply via email with a covering letter and sent to: kerry.patrick@refieldservices.com. Enclose a full CV and any additional information you may feel is relevant to your application for the post.

Equipment Wanted



GES Group, Northern Ireland

Item:

Pyrolysis Oven – 2x2x3 meters in dimension

Summary:

Grant's Electrical Services are looking for a used Pyrolysis Oven, dimensions 2x2 meters, 3 meters in depth. If you have an unwanted oven, or thinking of upgrading your current oven, then this is a perfect opportunity to trade.

Contact:

Please contact David Moore on 028 256 56406 or by email at dmoore@grantselectrical.co.uk

Elite Solutions

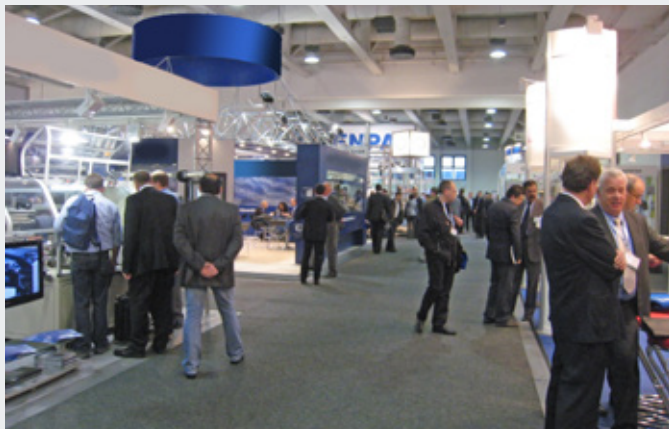
Item:

Used Coil Winding Machine

Contact:

Rob Fox on 01782 834829

AEMT Supporting CWIEME Berlin



This May the AEMT are proudly supporting the Coil Winding, Insulation and Electrical Manufacturing Exhibition in Berlin, better known as CWIEME Berlin. For those that don't know, the exhibition is one of the largest global collections of suppliers to the industry, bringing together over 750 companies and 7,000 buyers and design engineers. It is a rare occasion to get so many specialist companies under one roof, and an excellent opportunity for building business connections.

The AEMT will be hosting its own workshop at 15:00 on Tuesday 5th May on Brushes and Commutators. John Moody of Anglo Carbon, an associate member of AEMT, will be presenting the forum for an hour, and we hope to see more of our members there to support the discussion.

Tim Marks and Thomas Marks of the Secretariat will also have a stand (31A56) to be found in the south west of the exhibition hall, just left of the entrance, where they will be promoting AEMT Members and the association itself; all are most welcome to visit the stand and say hello. ■

Upcoming AEMT Events for your Calendar:

SIEMENS

Thursday, 23rd April 2015

AEMT Meeting - Siemens Gearboxes, Leeds



Wednesday, 13th May 2015

AEMT Meeting - SKF Technologies, Edinburgh

**CWIEME
BERLIN**

5th - 7th May 2015

AEMT Supports CWIEME Berlin

****Free Tickets for Members****



Wednesday, 10th June 2015

AEMT AGM - Meeting & Dinner at Welcombe Hall

Book Your Place!

or alternatively visit www.aemt.co.uk to find out more and fill in the booking forms. **For free CWIEME tickets, please login to the website and visit the events page. You can also email us in the office at admin@aemt.co.uk.