




KEEPS INDUSTRIES RUNNING

# LUCKERATH



 **Electrical-Mechanical Maintenance**

 **Graphite Specials**

 **Cleaning of industrial parts**

 **Steel Specials**

## Newsletter October 2009

### Larmax and Luckerrath, a success formula for the East.

Luckerath isn't exclusively successful in the Benelux. The presence of Luckerrath at foreign markets is also growing. In that trend Luckerrath has confirmed a deal with Larmax International to connect and explore former Russian countries. The company Larmax International has a large experience in giving advice about engineering and working place equipment.

Luckerath is working together with a widespread network of dealers to keep expanding the export activities. For that reason Larmax International is an ideal partner. This enterprise had years of experience concerning the consulting, engineering and contracting of European enterprises.

Especially Russian speaking countries and Asia are within their specialization area. Possible language barriers are solved by the professional way of working by Larmax International. They use native speakers all the time to make sure the communication with their clients passes off perfectly.



### New telecommunication laws since 1st of October

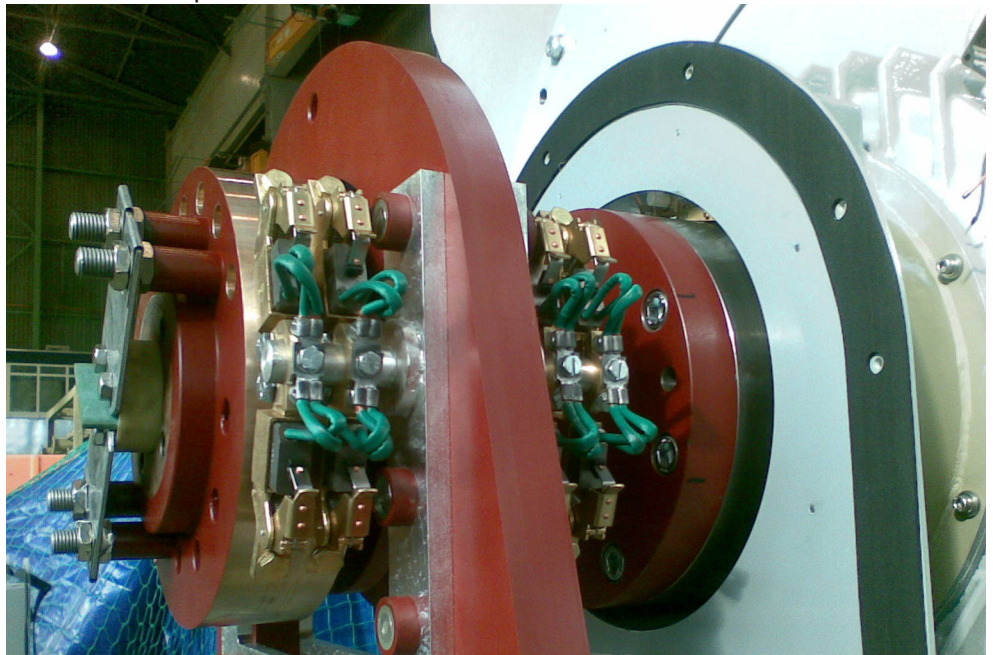
Since the 1st of October new European telecommunication laws concerning sending newsletters and commercial mails are applied.

This will change nothing for you. The Luckerrath newsletter will only be sent to businesses relations. If you wish to cancel your newsletter subscription you are easily written out of our system by clicking on the link below this newsletter. You are automatically removed from our mailing system and you will no longer receive a Luckerrath newsletter.

Of course you can subscribe yourself again to our newsletter. You can do this by clicking on the newsletter button on our website. Through our newsletter we want to inform you about our latest developments of our core businesses; Electro-Mechanical Maintenance, Graphite Specials, Cleaning of Industrial Parts and Steel Specials.

### Brush HMA

From idea to implementation



Slipring in final stadium

No single challenge is too hard. With this thought Luckerrath started a cooperation with Brush HMA. This enterprise is grounded 125 years ago and producer and supplier of high qualitative products to support energy production. Therefore they develop and produce among other things quadripolar generators with energized until 60MVA.

Luckerath has the honor to produce slip rings for this experienced partner. These slip rings were applied in 3 identical synchronic generators of 35MVA for the Canadian market. Because of the necessary sizes (2 rings of 345 x 75 mm) for the electric strain and the number of revolutions, it was possible to make a choice between steel or bronze slip rings. After a profound case study and several calculations concerning the blade tip speed, the maximal brush strain, the heath development and the cooling, the decision for the bronze slip rings instead of the steel slip rings was made. The big benefit of bronze slip rings was the large variation of appliances for the carbon brushes.

Therefore it was possible to apply the carbon brushes in a bronze-coal quality. Then a smaller amount of brushes was enough and the temperature development was a lot lower than with the use of carbon brushes quality for steel slip rings. All this resulted in a construction with an optimal power transmission and brush flow and a low heath development.

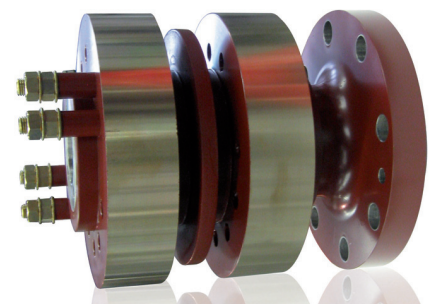
### Complete package

Not only the slip rings, but also the carbon brushes and brush holders were produced by Luckerrath. The result was that all parts were perfectly connected to each other and this lead to an optimal functioning and rotating power transportation.

### Elaborate testing

After the production, the slip rings were fully tested and equilibrated using several electronics and lasers. Next, the whole thing was assembled on the generators and tested in the testing area by employees of Luckerrath, Brush HMA and the end-customer.

**More information about these slip rings, Luckerrath or Brush HMA is available on [www.luckerath.com](http://www.luckerath.com)**



Fully produced slipring of Luckerrath

## New concept: Nitrogen drying oven (N<sub>2</sub>)



Luckerath is continuously looking for possibilities to reach a larger public and their products and services. A good example of this policy is the unique design of the Nitrogen drying ovens. This design is unique because the present oxygen is being displaced by an equal nitrogen injection. Due to this it is possible to dry easily inflammable products without taking the risk the products will inflame.

This concept is especially applicable for products which are easily inflammable. A normal drying procedure in a drying oven on electricity or gas is not possible in this case. The chance on inflammation of the products to dry is huge. The solution is within the concept to remove the oxygen from the oven chamber.

Because of the injection of the nitrogen in the oven chamber, the oxygen will be dispersed. The hermetic construction makes it impossible to let oxygen inside the oven chamber. Several sensors keep a good eye on the oxygen percentage of the drying process. If necessary the system can make the amount of nitrogen in the oven chamber increase or decrease.

The whole temperature process is adjustable using several build-in micro-therm controllers. This makes it possible to adjust the time and temperature of the different phases of the drying process. In combination with the divers sensors is it perfectly possible to keep the temperature even during the whole process. When the process is finished the temperature of the drying oven will be decreased by the micro-therm controller. The present nitrogen will be drained off so the oven can be opened safely.

In spite of nitrogen drying ovens, Luckerath is also capable to produce those systems using Ethanol. More information on this activity is available through our account managers.



Left picture: N<sub>2</sub> oven  
Right: Microtherm controller

## Offer of the month

Luckerath drying oven.

Type: MF02

*This month's offer is the Luckerath drying oven type MF02E with a digital micro-therm controller. The specification of this electric drying oven are:*

- Volume of 0,53m<sup>3</sup>
- Moveable chariot for easy usage
- Digital temperature options until 200°C
- Size of the chariot: 0,75 X 0,90 X 0,85 m
- Maximal loading capacity of 400 Kg.

*The electric drying oven is ideal for coating companies and the electromotor industries. Thanks to the forced air circulation the material are heated equally. The Microtherm controller makes it possible to control several programs. Therefore you can adjust time and temperatures, but also the amount of air being sucked out during the process. For more information visit our website.*

Normal: € 10.748

Now: € 9.999



## The Carbon Management system of Luckerath

User friendly and reliable

The Carbon Management System of Luckerath is yet many years a familiar tool for many companies who have one or more DC-motors in their product line. It gives you the opportunity to get a clear view on the conditions of the product lines faster and more efficient. Thank to a clarifying and advanced structure the program knows a lot of possibilities for the account manager as well as the costumer.

### How it works

At first the account on the CMS is being fed by the technical engineer or the account manager after a complete inspection of the production lines. With this, all the features, results, compositions, etc. of the DC-motors are written down. After the line-up and processing of these data, the account is ready for use. This classification forms a solid basis whereon the account manager and the costumer can handle the electro-motors in the production lines. This centralization of all data offers various advantages. After the basis has been established, the account manager and the costumer are able to add various data to their virtual motors. This could be technical drawings, modification of locations, maintenance turns, etc. Also the price lists and several overviews are available and related to the products you need.

### Fast and reliable delivery

**Next to the complete overview of your production lines, the CMS also offers an advantage with the order placement. Because of all the technical details, the production time can be shortened a lot. This results in a fast and high-quality delivery which Luckerath stands for.**



**Carbon Management System®**

### Testaccount

**To make sure you are well introduced in our CMS, Luckerath has created a public account. You can use this test location to expire our user-friendly system. You can find this testing location at [www.luckerath.com](http://www.luckerath.com). Please don't hesitate to contact your account manager for more information about this system.**

## Kusuma Intertrading Co. Ltd signs deal with Luckerath.

Luckerath BV confirms the partnership with Kusuma Intertrading, an Asian representative and distributor of among other things electro-mechanic parts.

This partnership will make sure the wide reach of Luckerath BV will grow and become more efficient in all Asian areas. Kusuma Intertrading is established in Thailand and is an important Asian communicator in the electro-mechanic parts business. Just like Luckerath, Kusuma Intertrading is an experienced and growing organization. Thanks to this partnership, both companies are able to keep up their growing trend in the future. We also announce that Kusuma Intertrading will be representing our company at the CWIEME Coil Winding fair this November (24-26) in Mumbai (India).

More information about Kusuma Intertrading and the CWIEME Coil Winding fair is available at [www.kusumaintertrading.com](http://www.kusumaintertrading.com).

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