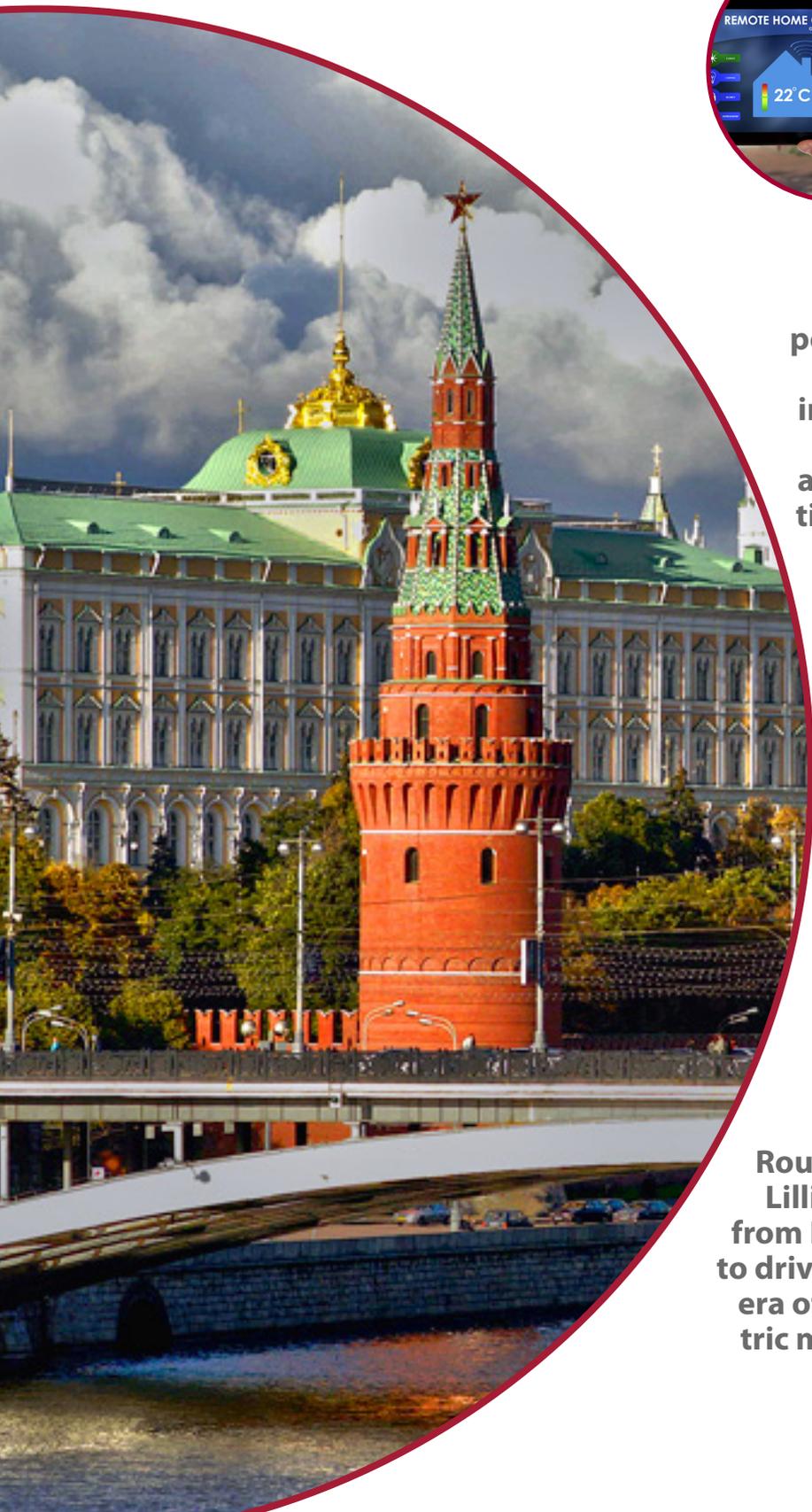




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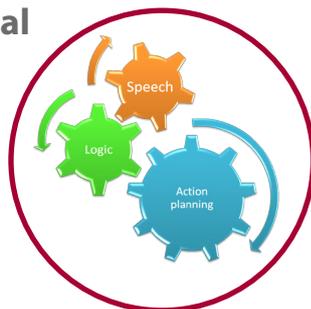


Alterozoom:
personal
knowledge
management
system for
Internet of Things

Saransk's SiC
power inverters: marry-
ing cutting-
edge tech
and competi-
tive pricing



DLBrain: virtual
advisor and
action plan-
ner to help
you achieve
your goals



Round metal
Lilliputian
from Russia
to drive new
era of elec-
tric motors





Technology Center Moscow

EDITORIAL

Dear colleagues,

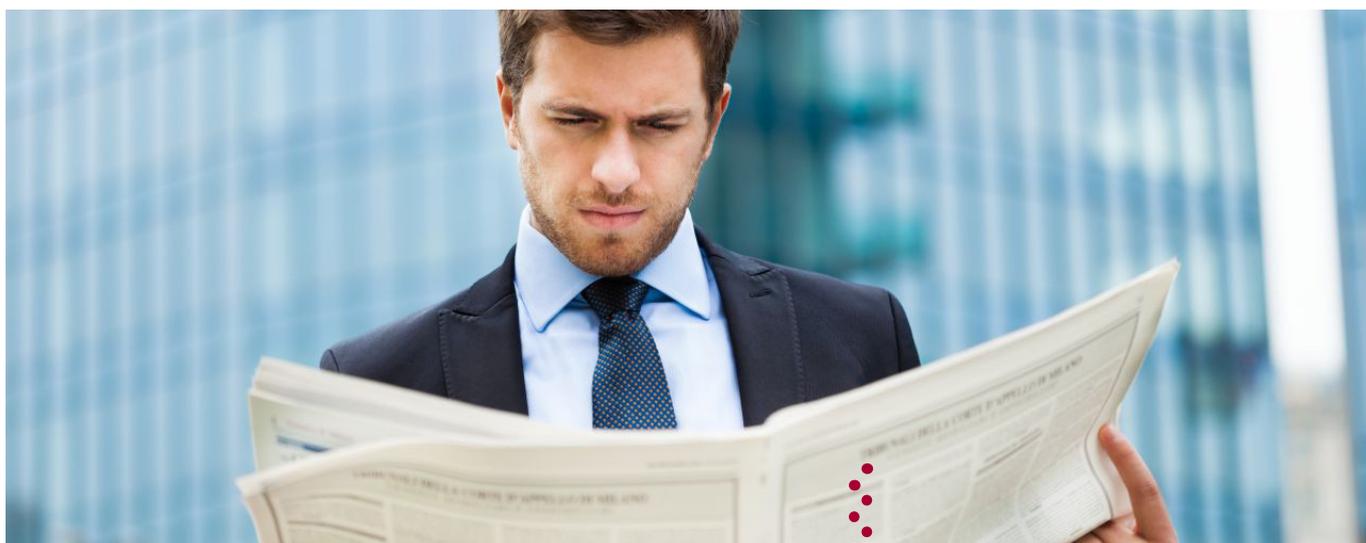
This is the inaugural issue of LGTCM's Monthly Newsletter.

From this edition going forward we will be trying to bring you a refined selection of concise stories covering top-notch innovative solutions across the broad former Soviet Union and Eastern Europe markets.

We hope you'll enjoy this issue.

Best regards, SunWoo Hyun

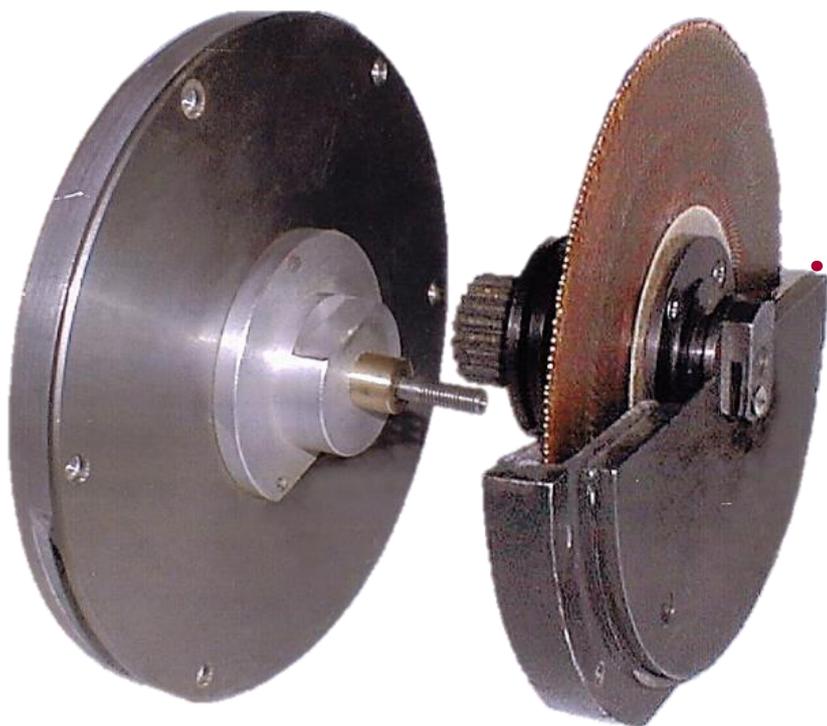
LGTCM Monthly Newsletter



- ▶ **Evaluation of innovative technologies in Russia, the former Soviet Union and Eastern Europe**
- ▶ **Coordination of collaborations and development projects between organizations in these broad regions and LG in Korea**
- ▶ **Establishment of collaborations between LG and regional companies or research organizations**
- ▶ **Integration of high technologies into the LG Group, for instance in the framework of joint developments, licenses, technology transfers, etc.**
- ▶ **Searching for new components and materials**

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● **ROUND METAL LILLIPUTIAN FROM RUSSIA TO DRIVE NEW ERA OF ELECTRIC MOTORS**

Round metal Lilliputian from Russia to drive new era of electric motors

A Russian engineer has developed a new small electric motor offering 70% efficiency and torque ten times the torque in a traditional motor. No machining was used – only laser treatment.

Victor Evseenkov, a Moscow-based engineer, has come up with a compact multipurpose electric motor. The 250W FlatDrive enables motor assembly and disassembly within minutes. Its modular approach makes it easy to build up required electrical capacity by placing several modules on a single drive shaft.

Flat and light, just about 10% of the typical weight and size of a conventional electric motor, the new low-noise motor could be used in any device or unit without swelling its weight and dimensions or marring its outward look. One of the key features is the motor's low moment of inertia.

These outstanding properties could give LG a competitive edge in areas ranging from robotics and machine-making to alternative energy, to automotive components, to household appliances, to medical devices.

Source: adgex.com



Advantages:

- **A COMBINATION** of a compact design and impressive output characteristics.
- **MODULAR DESIGN:** takes minutes to assemble and disassemble.
- **SEVERAL MODULES** can be placed on a single drive shaft.
- **ZERO-POINT** oscillations due to the smooth rotation of the anchor.
- **CAN OPERATE** at minus 50 – plus 60 degrees Celsius.
- **70%** efficiency.
- **ABILITY** to gain the maximum rotational speed virtually within a split second.
- **TO BE MARKETED** at €50- to-150 vs. €600 for motors from international competitors.



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