

Skeleton Technologies Signs Contract with Brush Traction to Supply Ultracapacitors for All BMU Class 769 Prime Movers

INNOTRANS Berlin, Germany, 18th of September 2018. Ultracapacitor European market leader Skeleton Technologies is now contracted to supply SkelStart Engine Start Module units on all Brush Traction Porterbrook Bi Mode Unit Class 769 flex prime movers.

The high-power density, inherent safety and tiny size of the 24V SkelStart module were decisive over other solutions during feasibility stage to start the Auxiliary Power Supply (APS) units. There was simply not enough allocated space available to integrate any other solution.

SkelStart is installed as a standalone starting powerpack with no power needed to top it up during standby periods as the case for long standby does not exist with this application.

A Single Skelstart is powerful enough to start 27-liter engines at 20°C.

"We had limited space available for the integration of the APS starting power supply. The 24V SkelStart has the size of a regular car battery and with its 8kg weight, it solved the space restriction we had. Also, we do not need batteries for the APS start module as the BMU standby time is short. The expected lifetime of the SkelStart of at least 5 years also adds reliability to the system." said Mr. Chris Myatt, Engineering Director at Brush Traction.

Mr Taavi Madiberk, CEO of Skeleton Technologies added "It is a major stepping-stone for Skeleton Technologies to bring ultracapacitors to the rail industry. In this case, size matters, and the power density of our cells made the difference. Millions of rail passengers will benefit from our technology"



PRESS RELEASE

About Skeleton Technologies

Skeleton Technologies is the global leader in graphene-based ultracapacitors and energy-storage systems. We deliver high power, high energy, reliable and long-life storage solutions across the industry. Through the use of patented 'curved graphene', we have achieved global breakthroughs in ultracapacitor performance and successfully commercialized our ultracapacitors, in trucks, buses, and grid applications.

Since our foundation in 2009, we have raised 42 M EUR to support manufacturing scale-up in Germany and in Estonia and grown our headcount from 4 to 100 people.

Our ultracapacitors deliver twice the energy density and 4 times the power density offered by other manufacturers. Our current customer base ranges from leading Tier One automotive firms and industrial equipment OEMs to truck fleet operators and aerospace prime contractors.

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About Brush Traction

Brush Traction is a respected supplier of freight and passenger rail vehicle services, equipment and components to rolling stock owners, operators and maintainers.

Our Loughborough facilities include:

- A direct rail connection to the Midland Mainline network
- Rail vehicle and equipment workshops
- Bogie overhaul workshop
- Electrical machines overhaul workshop
- Diesel and electric rail vehicle test facility (25kV AC/750V DC)

Since 2011, Brush Traction has been part of Wabtec Faiveley UK, which enables us to provide customers with a one-stop solution, offering a wide range of rail vehicle services and products. The Brush name has been synonymous with quality engineering and the supply of railway equipment since 1865, having produced locomotives and propulsion systems for passenger vehicles. Brush Traction is highly experienced and equipped in providing refurbishment and re-engineering services with expertise geared towards revitalising and improving customer assets to deliver operational and business benefits.

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