



ELECTRIFYING INDEPENDENCE – ALL DAY POWER

WOLFF's first ride-on stripper runs the whole working day powered by Briggs & Stratton's Vanguard lithium-ion commercial battery packs

WOLFF, as part of the Uzin Utz SE, was founded in Germany in 1954, and has been a premium partner for the global flooring trade industry for over 70 years. Known for its award-winning, high-quality machines and tools, which are used for removing floor coverings, the brand uses state-of-the-art production methods developed in-house. WOLFF is also committed to delivering a first-class regional service network for technical support, advice, spare parts and repairs. Its first 'Independence' ride-on is no different.

Until now, ride-on floor strippers have run on lead-acid batteries which didn't allow for consistent use across a full eight-hour working day due to usable torque typically dropping well

before the battery was empty. This frustration drove WOLFF to set a clear goal: to manufacture a machine that would work from start to finish with no loss of performance. This goal has been met through the brand's first ride-on floor stripper model "Independence", which delivers constant performance over the entire working day of up to 12 hours powered by up to two of Briggs & Stratton's Vanguard™ 48V 5.0kWh Fixed Battery Packs (Fi5.0).

Burak Nur, Head of Product Management at Uzin Utz Tools, says: "At WOLFF, we wanted to introduce a machine that not only had a longer battery life, but one that still performed as standard when the battery was at 20%, to meet

our long-standing product promise to customers. Vanguard was the obvious choice when it came to the battery component. With its dual functionality, our users can rest assured that they will have strong performance throughout the whole working day.”

During development, extended and consistent battery power was not the only crucial requirement for the Independence, WOLFF also sought to:

- Eliminate the end-of-day chores that come with flooded batteries: watering, corrosion checks and ventilation
- Offer a solution to the ever-tightening industry restrictions around noise pollution and local emissions

With these requirements clearly identified, WOLFF's engineers went to market to identify suitable

lithium packs and found that Vanguard's Fi5.0 met the electrical brief right away. Its 51.6 V nominal voltage sat perfectly on a 48-V DC bus, while its 98.7 Ah / 5.0 kWh capacity could be paralleled with up to ten packs, so that two units combined would deliver the more than 10 kWh needed for powering a double shift.

Steffen Hoffmann, Application Engineer Electrification and Engines at Briggs & Stratton's European Product Application Centre states: “Our Vanguard Fi5.0 battery is the perfect fit for electric indoor applications such as the WOLFF floor stripper, as it operates with zero emissions at the point of use and reduces noise levels. When used in parallel, the two batteries communicate via CANbus and the J1939 protocol, which provides real-time data on charge level, temperature, and current flow. This ensures optimal load balancing,



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Burak Nur
Head of Product Management
Uzin Utz Tools



extended runtime, and maximum system reliability and safety.”

By using Briggs & Stratton’s Vanguard Fi.5.0 battery model, the Independence floor stripper has a complete maintenance free drivetrain. With no outgassing and no refilling needed, thereby mitigating the need for daily water top-ups, eye wash stations and explosive hydrogen management, all requirements that come with using lead-acid batteries. As a result, the need for Health and Safety Executive paperwork and downtime is minimised. Better yet, the fully electric battery system delivers reduced noise levels and zero local emissions, while the battery is small enough to fit into the small chassis, sized at 78 cm.

The product development stage also placed durability and warranty at the forefront. As a



48V 5,0KWH* COMMERCIAL BATTERY

FIXED BATTERY PACK (Fi5.0)

Powerful, efficient and safe: This fixed battery pack is designed to blend seamlessly into any equipment setup.

- **Expandable:** Packs can be combined in parallel for additional capacity.
- **Durable:** Multiple protective features tested to withstand harsh conditions, including extreme temperatures, impact, vibration, moisture and dirt.
- **Increased Uptime:** Up to 2000-cycle life to 80% initial capacity.

NOMINAL VOLTAGE (V):	51.6
NOMINAL CAPACITY** (Ah):	98.7
NOMINAL DISCHARGE CURRENT (A):	100
CHARGE TIME WITH 1050W / 1050W / 1425 / 3000W CHARGER (H)***:	5.5 / 4 / 2.5
PACK WEIGHT (KG):	39

* Total energy measured using a 0,2C discharge per IEC 61960-3:2017.
** PER IEC61960
*** Based on nominal temperatures, charge will vary at the extremes.

result, the Vanguard Fi5.0's ability to deliver 2,000 cycles before capacity drops to 80% - translating to five years of daily charging, which is triple the life of a typical AGM pack - makes it an obvious investment for busy organisations. In addition, Vanguard provides a 8 year commercial warranty for the battery - offering additional piece of mind for users and OEMs.

Burak Nur, Head of Product Management at Uzin Utz Tools, says: "The integration process of the Fi5.0 battery was seamless. Two packs can be easily mounted beneath the operator platform where their combined mass doubles as ballast for blade pressure."

Conveniently, the battery packs share the machine's native 48-V rail, meaning no DC converters are required. Data from the batteries flows straight onto the machine's one-hand remote and CAN messages from the Battery Management System are decoded by the WOLFF controller so the operator can see a battery gauge. When it's time to recharge, the Independence stripper comes with two 1050 W chargers that plug directly into the wall at 230V, both refilling overnight or a single pack can recharge to full in three hours.

Burak Nur also commented on the partnership: "The Independence floor stripper and Vanguard's Fi5.0 battery were made to work together. With the Fi5.0 already carrying UN 38.3 transport tests and CE-ready documentation, WOLFF simply had to run an end-of-line vibration test and dust test to validate launching the machine to market."

With WOLFF's mission to bring power, performance, and independence to flooring professionals—and Vanguard's state-of-the-art battery technology—the Independence ride-on floor stripper is a modern solution built for real-world demands. Maintenance-free drivetrain, emission-free, and ready for a full day's work.

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OUR VANGUARD Fi5.0 BATTERY IS THE PERFECT FIT FOR ELECTRIC INDOOR APPLICATIONS SUCH AS THE WOLFF FLOOR STRIPPER, AS IT OPERATES WITH ZERO EMISSIONS AT THE POINT OF USE AND REDUCES NOISE LEVELS.

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Steffen Hoffmann
Application Engineer
Briggs & Stratton



CONTACT US NOW

TO FIND OUT HOW VANGUARD CAN HELP YOU POWER YOUR EQUIPMENT



Contact us via email to: **vanguardpower.emea@basco.com**



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ABOUT BRIGGS & STRATTON | VANGUARD

Briggs & Stratton, headquartered in Milwaukee, Wisconsin, provides innovative products and diverse power solutions to help people get work done. Briggs & Stratton is the world's largest producer of engines for lawn and garden, turf care and job site power equipment and is a leading designer, manufacturer and marketer of lithium-ion batteries, standby generators and energy storage systems through its Briggs & Stratton®, Vanguard®, Ferris®, Simplicity®, Snapper®, Billy Goat®, Allmand®, Branco® and Victa® brands. Briggs & Stratton products are designed, manufactured, marketed and serviced in over 100 countries on six continents.

Vanguard® helps professionals to get their work done by applying power to their unique commercial applications. For nearly 40 years, Vanguard has partnered with customers to conquer challenges and develop innovative products. As Vanguard doesn't simply provide components, it supports customers in applying commercial lithium-ion and petrol power throughout the entire integration process, from development to serial production to after sales and training support. www.vanguardpower.com

ABOUT WOLFF

For over 70 years, WOLFF has been manufacturing high-quality machines and tools for the floor-laying trade. Our core competency lies in strippers, machines for removing floor coverings. As a brand of the UZIN UTZ Group, we are a premium partner for the floor laying trade.

These are manufactured at our production site in Ilsfeld using state-of-the-art manufacturing methods. What makes our machines unique is our in-house development and design, as well as our close collaboration with skilled tradespeople. This is how we achieve the highest quality standards.

We have also built up a first-class service network that includes technical and advisory support as well as a regional, on-site spare parts and repair service.

VANGUARD

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