

Press Release

DEPRAG INTRODUCES CORDLESS EC-ASSEMBLY TOOLS

Battery operated screw driving with the highest accuracy!

Angle-head Nutrunner screwdrivers for assembly in space-limited areas

The more that compressed air hoses and cables are a hindrance during assembly work, the more preference is given to battery-powered EC-screwdrivers for mass-production environments. The increased performance of modern batteries also increases the application field for those tools. The proven DEPRAG precision screwdriving technology is now also available in a cordless design.

No matter whether screwdrivers are used in the assembly of car interiors or travel-trailers, binding air hoses and electric cables hinder the work process in space-limited areas. DEPRAG sales director Jürgen Hierold states: "For those applications, the use of a cordless screwdriver can be tremendously helpful". For example, on assembly lines where a conveyor is moving, the use of battery-operated screwdriving tools provides major advantages. Sales director Jürgen Hierold recalls: "In the past, battery-driven screwdrivers were not very convincing, mainly because of their short life span. However, the performance of today's battery-operated screwdrivers can no longer be compared with this old technology." The DEPRAG engineers decided in favor of the latest generation of Lithium-ion rechargeable batteries for this new screwdriver series.



These new batteries have a considerably lower idle-discharge, and the dreaded memory-effect - that occurs as a result of partial charging - is non-existent. It is also important to note that the new batteries can now be fully charged in about 40 minutes.

The 36V Li-Ion battery that operates these new DEPRAG screwdrivers, offer a high energy- and performance density. R & D Manager, Albin Lanig, explains: "The regenerative feedback of the braking-energy for the electric motor, translates into an extremely efficient and low-cost energy consumption." This efficiency and the sensor-controlled multi-level standby-mode permit a high number of screwdriving cycles per battery charge. By using high-grade EC-electric motors that excel through power-density and output-efficiency, the tool has a low weight and a long service life.

The newly developed series fulfils the demands for precision and allows the processing of complex screwdriving cycles that are part of today's conventional torque/angle-controlled screwdriving requirements. The tool can be programmed with eight multi-level screwdriving sequences that are already stored within the Screwdriver. The easy and quick selection and initiation of a program is done directly on the tool's display-keypad. An additional selector-switch allows a fast activation of the reverse, which is available for every screwdriving program.

This new cordless angle-head Nutrunner screwdriver series will be introduced to the market with three different models that have a torque range of 2 Nm to 50 Nm [18 – 440 inch pounds]. Due to the high shut-off accuracy, this tool series reaches a Cmk-value of ≥ 1.67 and therefore meets the quality requirements demanded by the automotive industry.

The entire DEPRAG MINIMAT®-EC screwdriver family is well-known by its truly ergonomic design and this new screwdriver series is no exception. The operator comfort is assured by the low weight of the tool and an integrated directive-light, which illuminates the screw-location.

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DEPRAG SCHULZ GMBH u. CO. offers decades of experience in the development of screwing technology. The process reliability of its screwdrivers is a focal point for DEPRAG developers. In addition to the high shut-off precision, the new cordless angle-head screwdriver series also offers unique functions for both control and connectivity.



Using a Bluetooth, wireless data-transmission, the screwdriver can stay in contact with an optionally available base-station. There, a graphic user interface allows the fast and easy generating of screwdriving sequences. Additionally, it is possible to connect the base-station to a host PC that transmits screwdriver settings and can also receive and archive data received from the screwdriver. It is possible to connect up to four (4) tools to one base-station. As explained by sales director Jürgen Hierold, this feature is the basis for a superior quality management and its documentation. "With the new cordless angle-head Nutrunner screwdriver, DEPRAG is introducing a superior tool for the use with assemblies requiring process-control and where space limitation is a problem. In addition, this new tool series incorporates all the other advantages of the proven MINIMAT-family."

DEPRAG SCHULZ GMBH & Co. is the market leader in the areas of screwdriving technology and automation. DEPRAG offers a wide number of solutions for a process-reliable assembly. The manufacturer is headquartered in Amberg/Bavaria and has a worldwide presence in more than 50 countries.

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