

# ITH: Smallest and lightest battery nut runner up to 4,000 Nm

New ITH type ADS-3 with class-leading power-to-weight ratio  
High-capacity battery 5.2 Ah is essential to lasting performance



*By its newly designed and very compact gearbox the ITH nut runner type ADS is the battery torque wrench with the best power-to-weight ratio for torque ranges up to 4,000 Nm (2,950 ft\*lbs). In this picture the ADS-150 is shown tightening one HV-standard bolt connection size M27 (1 1/8") on an I-beam of [the new headquarter of ITH Bolting Technology](#) in Germany.*

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The smallest and lightest battery nut runner on the market with torque capabilities up to 4,000 Nm (2,950 ft\*lbs), developed by ITH Bolting Technology, has the best power-to-weight ratio (Nm/kg) of its class coupled with an industry-leading battery capacity of 5.2 Ah. The ITH type ADS also features a brushless – and thereby wear-free – motor with automatic shut-off when the target torque value is reached. A high precision of  $\pm 4\%$  is possible due to the intelligent torque control system which automatically adjusts the rotations per minute (rpm) throughout the bolting process. The high-capacity 5.2 Ah battery makes the ITH type ADS the ideal torque tool for all bolted connections bigger than M16 (3/8").

## 1. High-capacity battery 5.2 Ah is essential to lasting performance

Battery nut runners are ideal for use on sites where power supplies are not – or not easily – available. When considering battery performance people often overlook the importance of capacity and only focus on voltage. Capacity is integral to untiring performance. “The higher the capacity, the more power can be stored”, Dipl.-Ing. Frank Hohmann explains, who leads the worldwide family-run company ITH Bolting Technology together with his brother Dipl.-Ing. Jörg Hohmann. Based on this, the decision was made to use a 5.2 Ah 18V battery when developing the new tool.



*For applications with limited space conditions the angle-version ADSw can be used.*

## 2. Consistent development: small, light, and powerful

Next to endurance the key factors for battery tools are size and weight to guarantee the best handling possible – even on applications where space is limited. “Getting the best out of these key factors was our target during the development process. We followed this approach consistently and are confident with the result”, Frank Hohmann says. The first battery-version of the ITH Nut Runners series was successfully introduced five years ago. This new 3rd generation introduces a newly designed high-performance planetary gear drive which had a significant role in achieving the class-leading power-to-weight ratio.



*The complete accessory program covers side-drives for applications which are limited in height or have a long projecting thread (e.g. heat exchangers).*

ITH type ADS is available in three versions:

1. “Digital”: digital application control by “ITH smart control”
2. “Professional”: analogue torque set-up by control wheels
3. “Basic”: one predetermined torque ex works

The portfolio is completed by angle-version type ADSw and wide scale accessory options including several power wrench sockets, torque extensions, and side-drives.



*Supports (reaction arms) can be designed according to customer specifications.*

### **3. Design: ergonomic and user-friendly**

In addition to the automatic shut-down feature which occurs when the target torque value is reached, the ITH type ADS has another feature known as Automatic Free-Run which eliminates the torsional binding that can make it difficult to remove a torque tool after tightening each bolt. The ADS-3 automatically frees itself for the user making it safer, faster, and easier to move from bolt to bolt.

The positioning ring allows the gearbox unit to be rotated independently of the drive and then locked into position which makes setup at each bolt quick and easy. During the bolting process the tool endures all of the reaction forces, protecting the user from any strain.

### **4. Smart electronics: precision and feedback for the user**

A high precision of  $\pm 4\%$  is achieved by the redeveloped „ITH Soft-Turn-Automatic“ which continuously readjusts the rpm of the brushless motor according to the bolting procedure. The user receives feedback about the bolting process from the motor LED, which is placed on the back of the housing: Procedure in-process (LED flashes slowly), Target torque reached (LED lights up permanently), Error or Battery low (LED flashes quickly). Using ADS Professional or Basic, two extra LED-lights on the foot of the non-slip pistol grip shed light on the bolted application for a clear working environment.

### **5. Applications: construction sites, construction machines and more**

Battery nut runner ITH type ADS can be used for service-jobs on all bolt connections bigger than M16 (3/8"). For installation and maintenance on construction sites, typical application examples are: Steel I-beams (steel bars, HV-standard), valve wheels, wheel bolts of construction machines, chain drive bolts, Turas-Wheel bolts, slew bearing bolts and slewing gearbox bolts, carrier bolts and all other commonly bolted joints bigger than M16 (3/8").

Additional information: <http://www.ith.com/en/tension-and-torque-tools/nut-runners/battery-torque-wrench-ith-battery-nut-runner-type-ads.php>

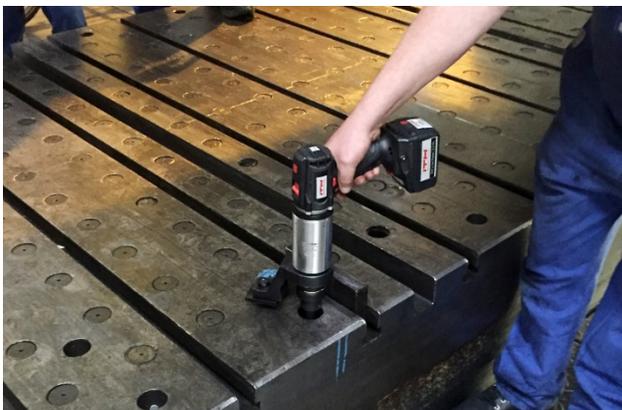
## Additional application examples



**Robust on-site design:** Battery nut runner ITH type ADS-150 tightens steel construction bolts of a cable railway.



**Designed for service jobs:** These bolts of a ship container loader („straddle carrier”) are tightened quickly and precisely with an ITH ADS-150.



**Flexible use:** These allen bolts M30 (1 1/8”) of a sheet metal press are tightened with the ADS-150 to a target torque of 1,250 Nm (922 ft\*lbs).

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