

ESN50 Battery Tool

For installation of Fastriv® self-pierce rivets

Features

- Electro-hydraulic operation
- C-frames with various throat depths are available which can be changed quickly
- C-frame is continuously rotatable 360° around the longitudinal axis
- Joining force is continuously adjustable from 20 - 50 kN (4,500 - 11,240 lbf)
- Motor automatically turns off after joining force is reached
- With special tooling the ESN50 can also be used for removing pierce-riveted joints (repair concept)

Benefits

- Wide range of uses, from sampling, prototyping and repair use to low volume production
- Can also be used for placing clinch nuts and studs and also pierce nut and studs

Specifications

Joining force	20 - 50 kN (adjustable) (4,500 - 11,240 lbf)
Actuation	DC-permanent-motor
Motor voltage	12V DC
Cycle time	3 - 5 s
Capacity	approx. 300 working strokes/battery
Noise level	75 dB(A)
Throat depth	e. g. 35 mm (1.378 in) (depending on C-frame)
Weight	approx. 4.7 kg (10.4 lbs) (depending on C-frame)

Placing Capability

Fastriv® self-piercing rivets
Clinch nuts and studs, pierce nuts and studs

Supplied with

Battery tool with C-frame, battery charger, stand-by battery, tool box.

The tooling required for the respective application has to be ordered separately. Please contact your local Avdel representative.



Repair Concept for self-piercing Joints

In principle, a joint made with self-piercing rivets is a “non-removable joint”. Sometimes it will be necessary to disassemble these joints. This may occur in re-work or in service repairs, for example due to damage to the components being joined. Avdel offers repair kits that are suited to your specific needs. The basis of each kit is the ESN50 battery tool which can be equipped with different C-frames to accommodate varying tooling access in the application.



Example of a complete repair kit with extensive accessories. The kits are adapted to the customers requirements.



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Avdel UK Limited
Pacific House, 2 Swiftfields
Welwyn Garden City, Hertfordshire AL7 1LY
Tel. +44 (0)1707 292-000 · Fax -199
enquiries@infastech.com

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03.2009