



TOOLimpex
CZECH REPUBLIC s.r.o.



Freedom EAS High Torque

Battery Power Tools



- Productivity
- Tightening accuracy
- Robust & ergonomic
- Compliant to industry 4.0

SCS Concept Group

www.scsconcept.com

Freedom EAS High Torque



- **No information loss with our WiFi 2.4 or 5 Ghz**
 - Automatic roaming to select the best access point
 - Full security management

- **Status with multi-color LED and color screen**

- **Ergonomic handle with large trigger**



- **Vibration & buzzer alarm**

- **High battery autonomy thanks to brake energy recovery**

- **Integrated barcode reader for high durability**

EAS tools can manage all operations in Stand alone or as a slave to SCS FIM evo and VPG+ system management.

➤ From 50 to 1 250 N·m
Pistol, Angle head

➤ Durability and high speed
with brushless motor



➤ Accurate and durability
with our spiroidal gear and angle head



➤ Illuminate part with
intergated flashlight

➤ Torque Multiplier

➤ Integrated control

- ✓ Full tightening strategy
- ✓ Prevailing torque capability
- ✓ Barcode reader to start the sequence
- ✓ Joint condition monitoring
 - Trace comparison
 - Current, torque, angle, gradient, time monitoring
 - Rehit detection
- ✓ Full traceability with WiFi communication

Freedom EAS High Torque

➤ FIM EVO The solution to manage up to 12 tools with one Industrial device

FIM Evo is designed to manage and collect data from SCS Concept production tools and all other brands.

- ✓ Manage up to 12 tools
- ✓ 6 station at the same time (option)
- ✓ Unlimited sequences and operations
- ✓ Large memory to store all results and traces sent from your tools
- ✓ Multi-Protocol solution with :
Open protocol, ToolsNet, IPM, VW XML
- ✓ 16 IO24V to manage your stations
- ✓ Manage barcode reader / printer
- ✓ Manage socket tray
- ✓ Industrial Fieldbus (Option)
- ✓ Setup the tightening strategies directly for your tools



Use our battery power tools with WiFi to connect to our systems and communicate easily with your MES. The FIM EVO and VPG+ are designed to manage your assembly processes, manage accessories like socket tray, barcode reader, fieldbus, etc.



➤ VPG+ the solution for operation guidance and data collection



- ✓ Station operator visual guide
- ✓ Training tool for new operator
- ✓ Multi-brand tools capability
- ✓ 12 different tools can be connected to a station (Multi-brand solutions)
- ✓ Simple error proofing on production station for all tools
- ✓ Collect and manage all stations with VPG+ server
- ✓ Multi-Protocol solution with : Open protocol, ToolsNet, IPM, VW XML
- ✓ Manage accessories like barcode reader, socket tray, etc
- ✓ Setup the tightening strategies directly for your tools

Freedom EAS Transducerized Tools

Improve your quality with this accurate tools



Ultimate tightening solution to manage all your assembly joints using one tool and improve your quality and production processes. These advanced tools monitor your assembly joints and give you access to full data traceability. By linking to our FIM EVO or VPG+, you will have full access to a guidance solution, sequence management and a powerful communication to your MES.

Main advantages

- High durability and low maintenance
 - Brushless motor
 - Highly durable gear and angle head
- Designed for high productivity
- Robust and ergonomic design
- Torque transducer
- Human interface machine
 - Vibration, buzzer and alarm
 - LED
 - Oled display
- Increased productivity
- Current & angle control to validate all your tightening
- Batch count function and error proofing management
- WiFi* to communicate with your MES
- Barcode reader* to link all results to your VIN number
- Tightening strategy
 - Torque control with angle & current monitoring
 - Angle control with torque & current monitoring
 - Prevailing torque / gradient / trace comparison

Features

- Torque accuracy: +/- 3%
- Torque repeatability: +/- 7% with Cm/Cmk better than 2
- Full control management and tightening strategy
- Re-tightening detection and batch count
- Memory: Up to 150 000 results/traces store on the wrench (torque, current, speed, angle)
- WiFi 2.4 & 5 GHz *
- Barcode reader *



➤ Human interface machine

- Vibration, buzzer and alarm
- LED
- Oled display

* Optional. Add B for barcode reader and W for WiFi

➤ Freedom EAS High Torque

| References | Torque | Lenght | Weight | Speed | Type Multiplier | Drive |
|-------------------|--------------|--------|------------|-------|-----------------|---------|
| | N·m (lbf·in) | mm | kg (Lbs) | rpm | | |
| Pistol | | | | | | |
| EAS-PHTT150S34 | 150 (1327) | 312 | 1.8 (3.96) | 40 | 1 | SQ 3/4" |
| EAS-PHTT250S34 | 250 (2212) | 380 | 3.7 (8.26) | 20 | 2 | SQ 3/4" |
| EAS-PHTT300S34 | 300 (2655) | 312 | 1.8 (3.96) | 20 | 1 | SQ 3/4" |
| EAS-PHTT525S34 | 525 (4646) | 326 | 2.2 (4.85) | 10 | 1 | SQ 3/4" |
| EAS-PHTT645S34 | 645 (5708) | 365 | 3.2 (7.05) | 7 | 1 | SQ 3/4" |
| EAS-PHTT1250S34 | 1250 (11063) | 365 | 3.2 (7.05) | 4 | 1 | SQ 3/4" |
| Angle head | | | | | | |
| EAS-AHTT190S34 | 190 (1681) | 474 | 2.2 (4.93) | 40 | 1 | SQ 3/4" |
| EAS-AHTT380S34 | 380 (3363) | 474 | 2.5 (5.59) | 20 | 1 | SQ 3/4" |
| EAS-AHTT500S34 | 500 (4425) | 520 | 4.8 (10.5) | 10 | 2 | SQ 3/4" |
| EAS-AHTT675S34 | 675 (5974) | 474 | 2.5 (5.59) | 10 | 1 | SQ 3/4" |
| EAS-AHTT830S34 | 830 (7346) | 482 | 3.9 (8.59) | 7 | 1 | SQ 3/4" |
| EAS-AHTT1000S34 | 1000 (8850) | 585 | 5.2 (6.61) | 5 | 2 | SQ 3/4" |
| EAS-AHTT1250S34 | 1250 (11063) | 482 | 3.9 (8.59) | 4 | 1 | SQ 3/4" |

➤ Tool accessories

The tools are delivered without torque adjustment battery & Reaction bar.
 The software to setup the current and angle is delivered on a USB stick with calibration certificate and manual in multi language.
 Type multiplier is used to select the right reaction bar depending of you tool.

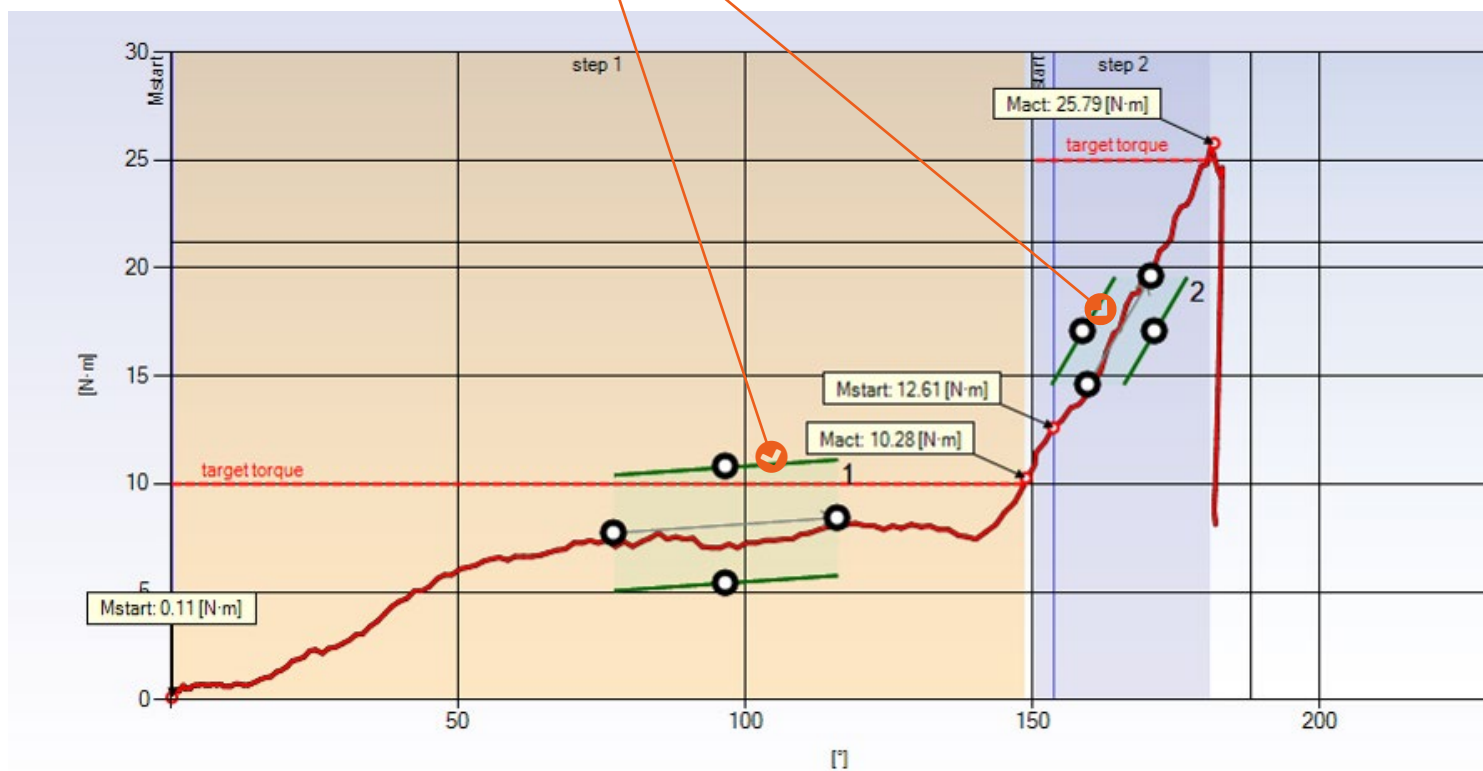


➤ WiFi tools can be linked to FIM EVO or VPG+

Freedom EAS Transducerized Tools

- Unique real time trace comparison to detect any mistakes occurred in the process

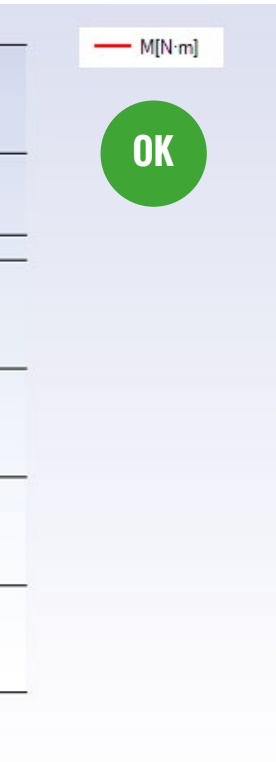
➤ Reference trace



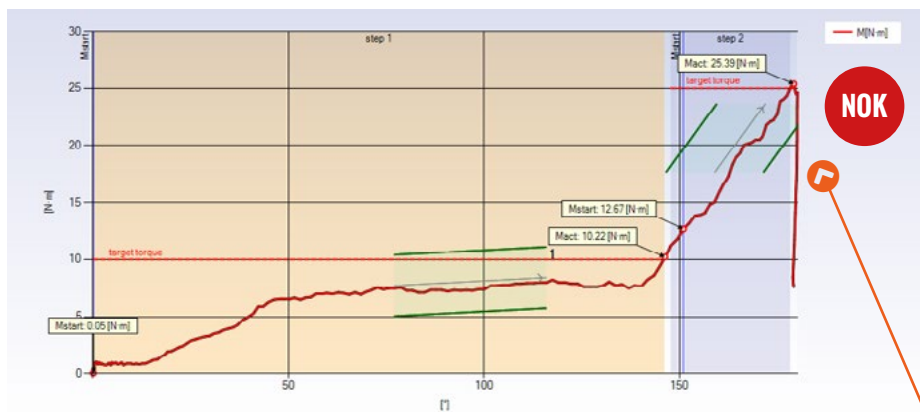


➤ Friction torque is too low

➤ Not ok on the first step



➤ Not ok on the second step



➤ The tightening crosses the reference trace set by you



Tool Accessories

Reaction bar

| References | Designation |
|-------------|------------------------------|
| EAS-PC | Cover EAS-P Pistol Tools |
| EAS-RB28760 | Standard Reaction bar type 1 |
| EAS-RB28771 | Short Reaction bar type 1 |
| EAS-RB28773 | Slide Reaction bar type 1 |
| EAS-RB00383 | Standard Reaction bar type 2 |
| EAS-RB00451 | Long Reaction bar type 2 |

| References | Reaction Bar |
|-----------------|--------------|
| EAS-PHTT150S34 | Type 1 |
| EAS-PHTT250S34 | Type 2 |
| EAS-PHTT300S34 | Type 1 |
| EAS-PHTT525S34 | Type 1 |
| EAS-PHTT645S34 | Type 1 |
| EAS-PHTT1250S34 | Type 1 |
| EAS-AHTT190S34 | Type 1 |
| EAS-AHTT380S34 | Type 1 |
| EAS-AHTT500S34 | Type 2 |
| EAS-AHTT675S34 | Type 1 |
| EAS-AHTT830S34 | Type 1 |
| EAS-AHTT1000S34 | Type 2 |
| EAS-AHTT1250S34 | Type 1 |

The reaction bar type 2 are not swivel, but you can index it on different position.



EAS-RB28760



EAS-RB00383



EAS-RB28771



EAS-RB00451



EAS-RB28773

Battery Accessories

| References | Designation |
|------------|------------------------------|
| EASC1EU | EAS Battery Charger 220-240V |
| EASC1US | EAS Battery charger 110V |
| EASB1850 | Li-Ion battery 18 V , 5.0 Ah |
| EASBC1850 | Battery Cover for 1850 |



| Description | FIM_EVO |
|---|------------|
| Number of tools managed | 12 |
| Compatible with SCS products | Yes |
| Manage Sequences, Operations | Unlimited |
| Manage tightening strategies | Yes |
| Manage barcode reader | Yes |
| Manage printer/label printer | USB/serial |
| Number of result stored | 100 000 |
| Number of traces stored | 100 000 |
| 2 Serial ports, 4 USB, 2 Ethernets, 1 Can bus | Yes |
| FieldBus compatibility (profinet, etc) | Yes |
| Number of input/output managed | 4 Output |



| Part Number | |
|-------------|----------------|
| 153 20 0008 | FIM EVO 4 out |
| 153 20 0013 | FIM EVO 16 I/O |

