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

P03   001/002

OK 01
Nm   <
4.00   145
OK

❯ 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

18 V - 5.0 Ah
SCS Concept
Li-Ion Power

FREEDOM EAS

❯ 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.

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 *

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

❯ Human interface machine

- Vibration, buzzer and alarm
- LED
- Oled display

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.
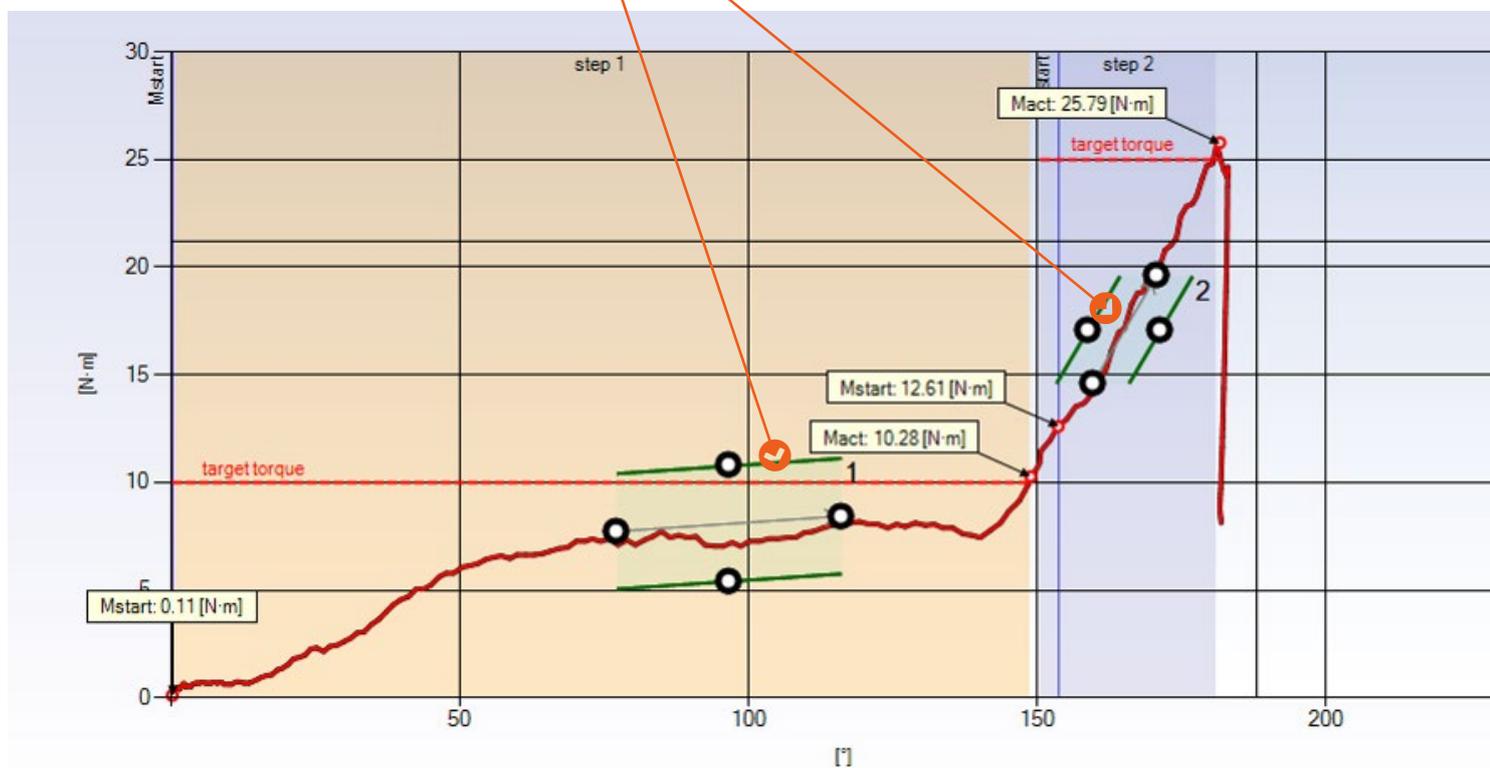Type multiplier is used to select the right reaction bar depending of you tool.

WiFi tools can be linked to FIM EVO or VPG+

Freedom EAS Transducerized Tools

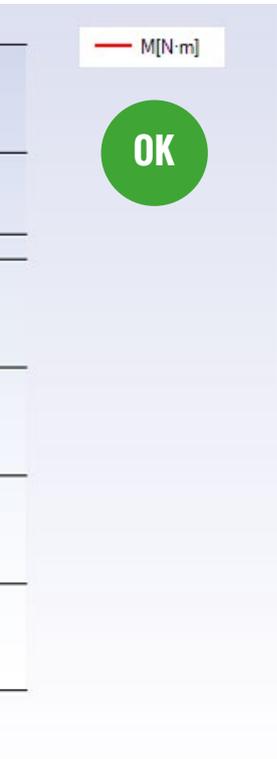❯ **Unique real time trace comparison to detect any mistakes occurred in the process**
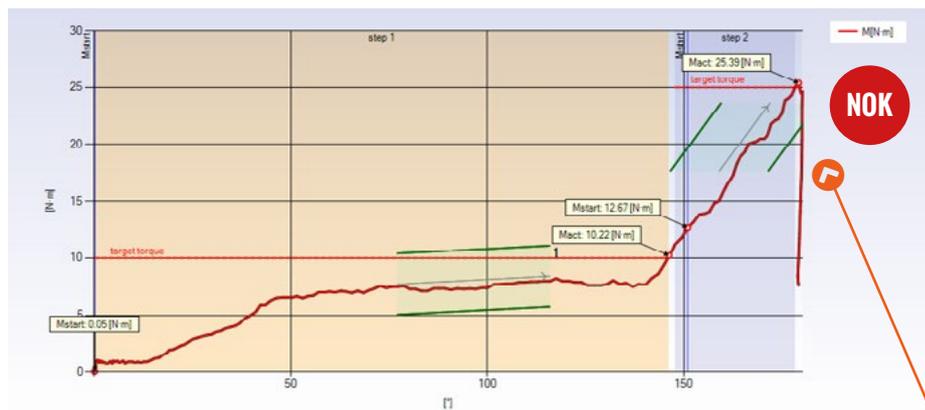
❯ Reference trace

OK

— M[N·m]

● **Friction torque is too low**

● **Not ok on the first step**

NOK

● **Not ok on the second step**

NOK

● **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

EAS-RB28760

EAS-RB28771

EAS-RB28773

EAS-RB00383

EAS-RB00451

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

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