

AUTOMOTIVE

FEIN AccuTec
▶ ASW 9-10
▶ ASM 9



Precision screw connections can be this easy. FEIN AccuTec for industrial volume production.

NEW: The FEIN AccuTec ASW 9-10 offset screwdriver – shorter, lighter and more accurate



Economy and accuracy for your production systems

Quality is a key factor for success. For years now, screw connections have had to meet constantly rising industrial standards. In its AccuTEC screwdriver range, FEIN offers optimum solutions for high-quality screwed connections from 0.5 to 25 Nm. We have many years of experience which will guarantee perfect results with comfortable, fatigue-free and very reliable operation. The best examples: The new AccuTEC ASW 9-10 offset screwdrivers and the tried and tested ASM 9 two-stage screwdrivers for industrial volume production.

Indestructible technology, well thought-out design, maximum functionality and very easy to operate: FEIN is satisfying the rising quality standards – and not just in the automobile industry.

More economical with up to 80% lower maintenance costs

FEIN AccuTEC screwdrivers are extremely economical to use. They are made with state of the art, reliable technology. All AccuTEC models have maintenance-free, brushless motors which give much longer service than traditional motors; there is no need to replace them and the AccuTEC shut off screwdrivers can be used for much longer with 80% lower maintenance costs.

Tested for consistent precision

FEIN AccuTEC screwdrivers satisfy the stringent requirements placed on screw connection tolerances: irrespective of the application, tightening torques remain at the same level. The restart lock permanently monitors the battery charge. If it is no longer sufficient for the screw connection, the machine cuts out. It is not possible to continue until the battery has been replaced. The restart delay locks the machine after the screw connection has been made, avoiding excessive tightening.



ASW 9-10 offset screwdriver

The shortest, lightest process-optimised offset screwdriver for up to 10 Nm on the market.



ASM 9 two-stage screwdriver

The two-stage cordless shut-off screwdriver with separate settings for the switching point and the tightening speed.

The key benefits of the FEIN AccuTEC screwdrivers at a glance:

- ▶ Maintenance-free brushless EC motor
- ▶ Robust construction with tried and tested components
- ▶ Process-optimised, thanks to switch-on delay and cut-out
- ▶ Lower tightening tolerances for high quality screw connections
- ▶ Consistently accurate tightening torque irrespective of the application
- ▶ Outstanding ergonomic design for fatigue-free operation



Precision results in tight spaces: the new FEIN AccuTEC ASW 9-10

Shorter, lighter and more accurate: The new FEIN AccuTEC ASW 9-10 offset screwdriver is impressive in every way - in the auto-mobile or automotive supplies industry, in aerospace applications, in engineering or in the manufacture of white goods. Maintaining high levels of process reliability, it delivers consistently accurate results with low tightening tolerances for industrial volume screw connections up to 10 Nm. Robust and compact, it is also ideal for use where access is difficult. Its extremely durable brushless EC

motor gives up to 30% more screw connections per battery charge, reducing maintenance costs by a considerable 80%.

Accurate torque settings

The innovative control technology allows exceptionally low starting torques to be set, ensuring process reliability.

Continuously adjustable angled head

The compact construction means it can be used in places which are otherwise difficult to reach. In addition the angled head can be adjusted continuously.



AccuTEC ASW 9-10 – technical data

Battery voltage	(V)	9.6
Speed	(rpm)	330
Torque range	(Nm)	1.5 – 10
Test range	(Nm)	3 – 10 +/- 10%, 6 Sigma, CmK > 2.0
Weight	(kg)	1.4
Available with three different tool mountings: 3/8" square head, 1/4" square head, 1/4" hexagonal socket		
Two versions: with NiCd or with NiMH battery		
Tongue tools can be adapted		

A WORLD PREMIER

Ergonomic design

With its handy design, the FEIN AccuTec ASW 9-10 is comfortable and safe to use, ensuring fatigue-free operation.

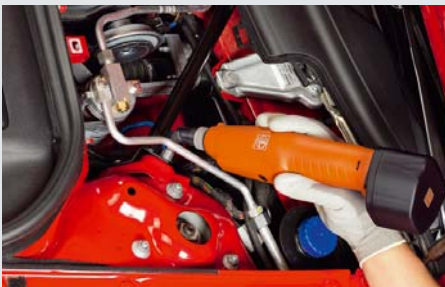
Customised battery packs

The FEIN AccuTec ASW 9-10 can be equipped with a NiCd or a NiMH battery.

Maintenance-free motor

Compared to traditional motors, the brushless EC motor technology increases service life several times over and costs for maintenance and spare parts are reduced to a minimum.

Shorter



The professional tool for tight spaces

The smallest cordless shut-off screwdriver, the AccuTec ASW 9-10 is just 360mm long, including the battery.

Lighter



Easy and comfortable to handle

Only 1.4 kg and ergonomically balanced, the FEIN AccuTec ASW 9-10 sits well in the hand, even on lengthy jobs. Fatigue-free operation is guaranteed.

More accurate



Consistently high quality results

The FEIN AccuTec ASW 9-10 gives consistently accurate results in serial production thanks to high repeat accuracy, minimum mean value offset and low tightening tolerances.

For more speed and accuracy in serial production: the ASM 9 two-stage cordless screwdrivers

The FEIN ASM 9 is a two-stage shut-off screwdriver with the Tempomat facility. It fulfils the stringent speed and accuracy requirements of industrial serial production. The first high-speed stage inserts the screw quickly. When the required threshold value has been reached, it automatically switches to a second, lower speed. This can be set individually via a coding process. This is ideal for soft and delicate screw connections to 6 Nm, such as hose clips, because the settling of the connection is so much more accurate.



Shorter screw-in times

Compared to slower shut-off screwdrivers, the screw-in times are shorter because the process is very fast until the switch-over point is reached.

two-stage tightening process

A prerequisite for soft screw connections. It has a direct impact on the quality and the settling of the material.

Faster



Shorter screw-in times

Screwing 4 hose clips at an assembly station without taking the cycle time into account, the AccuTec ASM 9 saves seconds.

More accurate



High precision screwdriver

The lower speed in the second stage remains constant until the screwdriver is switched off – this guarantees excellent material settling.

More process reliability



Benefit: two-stage screwdriver

Even with short cycle times, the two-stage screwdriver beats the standard time, as the speed is faster until the last 1.5 rotations.

FEIN AccuTec – battery charger and accessories

Accessories

General accessories

The FEIN ALG 40 industrial battery charger can be used to charge all the NiCd and NiMH batteries in the AccuTec family. LED displays give information at a glance about operating mode, battery charge and all other important functions. The battery coding detects and displays faults such as cell short circuits. State of the art charging technology, thermosensors and electronic monitoring ensure ideal charging conditions.



Technical data

Socket		1
Input voltage	(V)	220–240
Frequency	(Hz)	50 / 60
Power consumption	(W)	100
Output voltage	(V)	6.0–25.2
Charge current (max)	(mA)	5000
Capacity	(Ah)	0.8–7.5
Ambient temperature	(°C)	0–45
Charging time	(min)	20–60
Charging time NiCd 1250 mAh	(min)	25
Charging time NiMH 3000 mAh	(min)	60
Charging time Li-Ion 2600 mAh	(min)	45
Weight	(kg)	0.7
Order number		9 26 04 104 01 0

Key

Torque adjusting key for ASM and ASW 9-10 models



Order number 3 21 23 002 00 6

ASW accessories

Identification ring set

Coloured identification rings for distinguishing different machine and torque versions



	no. in pack	Order number
Colours	7	3 05 01 352 02 0
Blue	10	3 05 01 355 01 0
Red	10	3 05 01 356 01 0
Orange	10	3 05 01 357 01 0
Yellow	10	3 05 01 358 01 0
Grey	10	3 05 01 353 01 0
Green	10	3 05 01 354 01 0
Black	10	3 05 01 352 01 0

Angled head with drive



	Order number
1/4" Hexagonal socket	3 12 06 137 01 0
1/4" Square head	3 12 06 137 02 0
3/8" Square head	3 12 06 137 03 0

Plastic cover for angled head ASW 9-10



Plastic cover for ASW 9-10 to protect workpieces from damage

Order number 3 14 28 166 00 0

ASM accessories

Identification ring set

for distinguishing models by colour



	no. in pack	Order number
Colours	7	3 05 01 345 02 0
Blue	10	3 05 01 348 01 0
Red	10	3 05 01 349 01 0
Orange	10	3 05 01 350 01 0
Yellow	10	3 05 01 351 01 0
Grey	10	3 05 01 346 01 0
Green	10	3 05 01 347 01 0
Black	10	3 05 01 345 01 0

Cradle for ASM / ASSm

Cradle for FEIN AccuTec models – all ASM and ASSm



Order number 3 21 26 060 00 0

Plastic cover to protect workpieces from damage

Order number 3 14 20 120 00 0

Bracket fits ASM, for hanging on a balancer



Order number 3 21 25 054 001

FEIN AccuTEC – overview of full screwdriver range

FEIN AccuTEC ASW offset screwdrivers



Model		ASW 12-16	ASW 12-16	ASW 12-16	ASW 12-25
Torque range	(Nm)	6.0–16.0	6.0–16.0	6.0–16.0	10.0–25.0
Idling speed	(rpm)	300	300	300	240
Voltage	(V)	12	12	12	12
Weight with battery	(kg)	2.1	2.1	2.1	2.1
Tool mounting		3/8" Square head	1/4" Square head	1/4" Hexagonal socket	3/8" Square head
Order number					
with NiCd-Akku (2000 mAh)		7 110 93 50 01 7	7 113 04 50 01 3	7 113 05 50 01 9	7 110 94 50 01 3



Model		ASW 9-10	ASW 9-10	ASW 9-10
Torque range	(Nm)	3–10	3–10	3–10
Idling speed	(rpm)	340	340	340
Voltage	(V)	9.6	9.6	9.6
Weight with battery	(kg)	1.4	1.4	1.4
Tool mounting		1/4" Hexagonal socket	1/4" Square head	3/8" Square head
Order number				
with NiCd-Akku (1250 mAh)		7 112 08 50 01 0	7 112 09 50 01 0	7 112 00 50 01 0
with NiMh-Akku (2000 mAh)		7 112 08 50 02 0	7 112 09 50 02 0	7 112 00 50 02 0

FEIN AccuTEC ASM screw gun with mid-mounted handle



Model		ASM 9-2	ASM 9-4	ASM 9-6-150	ASM 9-6	ASM 9-9
Torque range	(Nm)	0.9–2.0	1.5–4.0	1.0–6.0	1.0–6.0	2.0–9.0
Idling speed	(rpm)	380	800	150	600	380
Voltage	(V)	9.6	9.6	9.6	9.6	9.6
Weight with battery	(kg)	1.3	1.3	1.3	1.3	1.3
Tool mounting		1/4"	1/4"	1/4"	1/4"	1/4"
Order number						
with NiCd-Akku (1250 mAh)		7 112 07 50 01 0	7 112 06 50 01 0	7 112 05 50 01 0	7 112 04 50 01 0	7 112 03 50 01 0



Model		ASM 12-9	ASM 12-12	ASM 9-4-2ST	ASM 9-6-2ST
Torque range	(Nm)	2.0–9.0	3.0–12.0	1.5–4	1.5–6
Idling speed	(rpm)	590	460	800	600
Voltage	(V)	12	12	9.6	9.6
Weight with battery	(kg)	1.5	1.5	1.3	1.3
Tool mounting		1/4"	1/4"	1/4"	1/4"
Order number					
with NiCd-Akku (1250 mAh)		7 112 02 50 01 0	7 112 01 50 01 0	7 112 10 50 01 0	7 112 11 50 01 0
without Akku				7 112 10 00 98 0	7 112 11 00 98 0



Adjustable 2nd speed.

The second speed can be adjusted from 55/60-155 rpm with no deceleration in the second stage. The adjustment is carried out with a simple coding process – no PC nor special software is required.

Ideal for automotive applications:

- ▶ Hose clips on turbo chargers and air intakes, heating and climate systems and coolant circuits
- ▶ Expansion rivets and plastic nuts in the wheel housing
- ▶ Steel nuts on heat shields
- ▶ Attaching components to the dashboard
- ▶ Fixtures for air filter housing, bumpers and painted components

FEIN offers the ASM 9 in two versions:

Technical data		AccuTEC ASM 9-4-2ST	AccuTEC ASM 9-6-2ST
Battery voltage	(V)	9.6	9.6
Torque range	(Nm)	1.5 – 4	1.5 – 6
1. Idling speed	(min)	800	600
2nd stage	(min)	60 – 155	55 – 155
Weight	(kg)	1.3	1.3

Do you have any further questions? Or do you want to test the FEIN AccuTEC screwdrivers?

Your specialist supplier will be happy to help.

Germany: C. & E. FEIN GmbH, Hans-Fein-Str. 81, 73529 Schwäbisch Gmünd-Bargau
Great Britain: FEIN Industrial Power Tools UK Ltd., 4 Badby Park, Heartlands Business Park, Daventry, Northants NN11 8YT, Tel. 01327 308730
USA: FEIN Power Tools Inc., 1030 Alcon Street, Pittsburgh, PA 15220, Tel. 1-412-922-8886, Toll Free: 1-800-441-9878

Canada: FEIN Canadian Power Tool Company, 323 Traders Blvd. East, Mississauga, Ontario L4Z 2E5, Tel. 905 890-1390, Toll Free: 1-800-265-2581
FEIN Quebec Ltee, 2810 De Miniac, St. Laurent, Quebec H4S 1K9, Tel. 514 331-7390, Toll Free: 1-800-789-8181

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