

Air screwdrivers & nutrunners



Semi-automatic feeders

For screws and nuts

- **Models:**
AM
BAM
CAM
SAS



Fiam
INDUSTRIAL AIR TOOLS

Semi-automatic feeders for screws and nuts

Efficient solutions for rapid and safe assembly applications

When bench or line assembly requires the use of very small screws or nuts, **time is essential to increase production.**

Fiam presents some innovative systems for fastening with semi-automatic feed which **notably reduce the cycle-time and thus improve productivity.**

The systems we illustrate here offer an easy and continuous supply of screws and/or nuts and lighten the burden on the operator who no longer needs to pick up the screw or nut and place it on the screwdriver bit or on the piece.

Fiam semi-automatic feeders are easy to use and very reliable; the range varies according to the screw or nut to be used.

AM semi-automatic feeders

- for 5.5 - 13 mm hexagonal nuts

BAM semi-automatic feeders

- for 5.5 13 mm hexagonal head screws

CAM semi-automatic feeders

- for 5.5 - 10 mm flat fillister head screws

SAS semi-automatic feeders

- for magnetisable screws from 1.4 - 5 mm shank diameter and PHILLIPS (or POZIDRIVE) head

AM semi-automatic feeder for hexagonal nuts

- For hexagonal nuts of 5.5 - 13 mm

This semi-automatic feeder consists of a vibrating loader unit, a suction station and an electronic unit for controlling and adjusting the nut feed speed. A sensor inside the suction station, activated by the socket on the screwdriver, drives a pneumatic cylinder that pushes the nut upwards to insert it in the retaining spring of the socket itself. The nuts must all be of the same dimensions to be gripped by the socket (more or less ± 0.1 mm on stated dimensions).

We advise using straight air screwdrivers with lever start (consult the Fiam Screwdriver Catalogue).

To choose the most suitable feeder contact **Fiam Technical Service.**



- Recommended working pressure: 6.3 bar.
- Mains supply: 220 V, 50 Hz.
- The code number must be used when ordering.

Standard equipment (provided with the feeder)

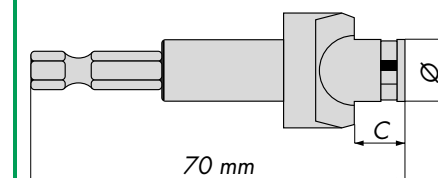
- Electronic unit for adjusting operating speed.
- Use and maintenance manual.

Models available on request:

- Special semi-automatic feeders: for self-locking nuts, cap nuts, nuts and washers, or nuts with dimensions not indicated in the table. Contact **Fiam Technical Service.**

Accessories

- Socket for hexagonal nuts shown in the table. We recommend ordering at least 3 sockets.
- Special sockets with fixed or spring magnet to hold the nuts, of different dimensions to those shown in the drawing (70 mm), special sockets for fastening in small spaces (the "C" dimension is different from indications in the table). Contact **Fiam Technical Service.**



NUT		Model	Code
Height mm	Hexagon mm		
2,4	5,5	AM55B	199971001
3	6	AM60B	199971002
3,2	7	AM70B	199971003
4	8	AM80B	199971004
5	10	AMB100B	199971005
5,5	11	AMB110B	199971006
6,5	13	AM130B	199971007

The models highlighted in green are usually available from stock.

Socket hexagon mm	Socket with hexagonal drive 1/4" "C" dimension code	Socket with hexagonal drive 1/4" Ø mm	Centering ring code	Retaining spring code	
5,5	605181055	9,5	8,8	611189060	528505500
6	605181060	9,5	9,8	611189060	528506000
7	605181070	9,5	11,5	611189070	528507000
8	605181080	9,5	13	611189080	528508000
10	605181100	8,5	14,8	611189100	528510000
11	605181110	8,5	18	611189110	528511000
13	605181130	8,5	19,8	611189130	528513000

Semi-automatic feeders for screws and nuts

BAM semi-automatic feeder for hexagonal head screws

- For hexagonal head screws of 5.5 - 13 mm with 25 mm maximum thread length below the head

This semi-automatic feeder consists of a vibrating loader unit, a suction station and an electronic unit for controlling and adjusting the screw feed speed. A sensor inside the suction station is activated by the socket on the screwdriver and drives a pneumatic cylinder that pushes the screw upwards to insert it in the retaining spring of the socket itself.

The screws must all be of the same dimensions to be gripped by the socket (more or less ± 0.1 mm on the stated measure).

We advise using straight air screwdrivers with lever start (consult the Fiam Screwdriver Catalogue).

To choose the most suitable feeder contact **Fiam Technical Service**.



- Recommended working pressure: 6.3 bar.
- Mains supply: 220 V, 50 Hz.
- The code number must be used when ordering.

Standard equipment (provided with the feeder)

- Electronic unit for adjusting operating speed.
- Use and maintenance manual.

Models available on request:

- Special semi-automatic feeders for hexagonal head screws with dimensions not indicated in the table. Contact **Fiam Technical Service**.

**ONLY
UPON
REQUEST!**

CAM semi-automatic feeder for flat fillister head screws

- For flat fillister head screws with maximum thread length of 25 mm below the head

This semi-automatic feeder consists of a vibrating loader unit, a suction station and an electronic unit for controlling and adjusting the screw feed speed. A sensor inside the suction station is activated by the bush inserted in the tool head and drives a pneumatic pin which pushes the screw upwards to insert it in the special elastic guide.

The screws must all be of the same dimensions to be gripped by the elastic guide (more or less ± 0.1 mm on the stated measure: tolerance h 11); the elastic guide is made to measure each time, so samples of the screws must be sent with the order.

We advise using straight air screwdrivers with lever start (consult the Fiam Screwdriver Catalogue).

To choose the most suitable feeder contact **Fiam Technical Service**.



- Recommended working pressure: 6.3 bar
- Mains supply: 220 V, 50 Hz
- The code number must be used when ordering

Standard equipment (provided with the feeder)

- Electronic unit for adjusting operating speed
- Use and maintenance manual

Models available on request

- Special semi-automatic feeders for screws and bushes with "C" dimensions different from indications in the drawing. Contact **Fiam Technical Service**.

**ONLY
UPON
REQUEST!**

Semi-automatic feeders for screws and nuts

SAS Semi-automatic feeder for magnetised screws

• For PHILLIPS (or POZIDRIVE) magnetised screws

This semi-automatic feeder offers several important advantages:

- **Productivity is increased by 35%** because screws do not have to be taken by hand and positioned on the screwdriver bits;
- Use is very practical because **one hand is free** during assembly: the screw is taken by the screwdriver from the selection channel leaving the other hand free to hold the assembly piece;
- **Greater comfort** for the operator who only has to fill the screw bowl;
- With a simple adjustment the feeder can be used with screws that have the same shank diameter but different heads and lengths;
- The possibility of assembling a product completely using different screws, thanks to the small dimensions of the SAS feeder of which more than one can be installed on the same work station.



The SAS feeder is designed for the use of specific magnetised bits; it is therefore supplied with a special accessory (magnetiser) which has two functions: the bit becomes magnetised when passed inside or demagnetised when passed outside. We advise using straight air screwdrivers with lever start (consult the Fiam Screwdriver Catalogue).

To choose the most suitable feeder contact **Fiam Technical Service**.

Types of screws to use with shank diameter and minimum length (maximum length 16 mm)

Shank ø mm	ø 1,4	ø 1,7	ø 2,0	ø 2,3	ø 2,6	ø 3,0	ø 4,0	ø 5,0
Type of screw	Minimum length (* of shank - **total) in mm							
* Without washer	1,4	1,6	1,8	2,5	2,8	3,0	4,0	5,0
* With washer	-	-	3,0	4,0	4,0	4,0	6,0	8,0
* With double washer	-	-	5,0	5,0	6,0	6,0	8,0	10,0
** With flat or oval countersunk head	1,8	2,2	2,5	2,8	3,5	4,0	5,0	6,0

SAS feeders for flat screws

MODELS	Code	FOR FLAT SCREWS Shank ø mm
SAS - 514 - IIV	*	1,4
SAS - 517 - IIV	*	1,7
SAS - 520 - IIV	*	2,0
SAS - 523 - IIV	*	2,3
SAS - 526 - IIV	*	2,6
SAS - 530 - IIV	*	3,0
SAS - 535 - IIV	*	3,5
SAS - 540 - IIV	*	4,0
SAS - 550 - IIV	*	5,0

SAS feeder for countersunk screws

MODELS	Code	FOR COUNTERSUNK SCREWS Shank ø mm
SAS - 514 - IIVF	*	1,4
SAS - 517 - IIVF	*	1,7
SAS - 520 - IIVF	*	2,0
SAS - 523 - IIVF	*	2,3
SAS - 526 - IIVF	*	2,6
SAS - 530 - IIVF	*	3,0
SAS - 535 - IIVF	*	3,5
SAS - 540 - IIVF	*	4,0
SAS - 550 - IIVF	*	5,0

- Feed voltage: 220 V, 50 Hz
- Operating voltage: 15 Volt DC
- Weight: 1.1 Kg.
- Dimensions: 120 x 153 x 132 mm

Models available on request

- SAS...RS for non-magnetic screws: contact **Fiam Technical Service**.

Standard equipment (provided with the feeder)

- 15 Volt DC electrical power supply, code 676000007
- Hexagonal adjustment spanner, code 600221090
- Screwdriver for adjustment, code 600056002
- Magnetiser for bits, code 611109116
- 3 specific bits according to the feeder model
- Use and maintenance manual

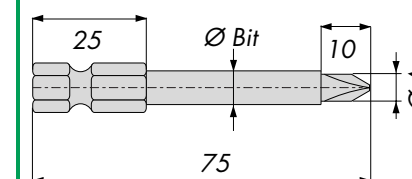
The models highlighted in green are usually available from stock.

* For orders contact **Fiam Technical Service**

Accessories

- 6.35 mm bits with hexagonal drive (ISO 1174) and Phillips tip.
- Special bits with lengths different from those in the drawing.
- Special Pozidrive bits.

Measurements in mm.



For model	ø A mm	Code	Bit ø mm	Type Phillips
SAS - 514	1,4	605050037	3	PH0
SAS - 517	1,7	605050038		
SAS - 520	> 2,3	605050039		
SAS - 523	> 2,3	605050035	4,5	PH1
SAS - 526	2,6	605050040		
SAS - 520	> 2,3	605050035	3	PH1
SAS - 523	> 2,3	605050035		
SAS - 526	2,6	605050041	3	PH1
SAS - 530 - SAS - 535	3,0	605052031		
SAS - 530 - SAS - 535	3,0	605050042	6	PH2
SAS - 540	4,0	605050036		
SAS - 550	5,0	605050043		

Fiam

INDUSTRIAL AIR TOOLS

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Quality Certification
UNI EN ISO 9001 / ICIM 0250

Environmental Management System Certification
UNI EN ISO 14001 / ICIM 0002A/0

