

The “CA” autofeed screwdriver

- Straight push-to-start air screwdriver combined with the automatic screw feeding unit
- **Tightening torque:** from 0,7 to 9 Nm
- **Torque control system:** Jointech-Plus (with immediate automatic air shut-off)



The "CA" autofeed screwdriver

Ideal solution to reduce tightening cycle times

Tightening cycles include certain typically manual phases, such as picking up the screw and positioning it correctly on the workpiece, which considerably reduce the rhythm of the assembly process. This is a **productivity problem** that FIAM has **successfully solved** through direct observation in the workplace and carefully listening to the **needs of assembly departments**.

The "CA" autofeed screwdriver, particularly useful for large and medium batch of equal screws, offers the following important **benefits**:

- the screw is automatically sent from the bowl to the screwdriver head;
 - the screw is positioned on the workpiece at the same time as the screwdriver is operating.
- Cycle times are considerably shorter** since the two phases mentioned above are eliminated, becoming part of the screwdriver operation phase.

Assembly line tests show that the "CA" system **reduces cycle times by approximately 35%**.

The "CA" autofeed screwdriver is composed by:

- a **FIAM straight push-to-start air screwdriver and Jointech-Plus torque control system (with automatic and immediate air shut-off)** with all the **advanced ergonomic and technological features** that distinguish the FIAM range (see FIAM Screwdrivers Catalogue for the choice available), fitted with a suitable screw-guide head;
- a **feed unit comprising**: a screw bowl, with vibration loader, selector device, electronic cycle control unit, control panel, filter and lubrication unit with compressed air pressure gauge, metal casing, electrical insulation in compliance with the law and connection hoses to the screwdriver.

The work cycle is simple, fast and safe:

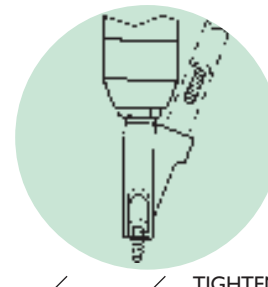
- the screws are loaded in the bowl
- the screwdriver is operated
- the screw automatically arrives at the screwdriver head
- the screw is drawn in
- another screw arrives at the screwdriver head, is drawn in and so the cycle continues.

S-CA version

With patented device for keeping the **screw visible** to the operator at all times, thus facilitating screwdriving operations since the screw does not move backwards when the operator pushes the screwdriver towards the workpiece.

P-CA version

Which is particularly suitable for screwdriving operations in small-diameter holes or very restricted spaces.



GREATER PRODUCTIVITY

High reduction of the tightening cycle times **saving almost 35%**.

HIGH REPEATABILITY

Thanks to the **automatic and immediate air shut-off** provided by the torque control system Jointech-Plus.

EASY USE

The patented device **does not allow the screw to move backwards** when the screwdriver is started up, thus facilitating every operation.

EASIER HANDLING

The screwdriver can be used in any position, from downwards to upwards, and in very restricted places. The easy handling is guaranteed since the grip is closer to the screwdriver's head.

CONSUMPTION REDUCTION

The vibrator's special timed system **stops the screw feed automatically** when it is not required, thus eliminating unnecessary electricity consumption.

HIGH SAFETY

The **absence of electrical cables** on the screwdrivers head eliminates dangerous sources of potential electric shocks.

CUSTOMIZED SOLUTIONS

The "CA" autofeed screwdriver **has been designed so that it can be adapted to any tightening situation**. FIAM, thanks to its long experience in the most different situations concerning the automatic assembly and to its great flexibility in the designing and manufacturing systems, **puts its expert technical staff at disposal to supply the best solution for every specific and special assembly requirement**.

TYPE OF SCREWDRIVER	GRIP		TIGHTENING TORQUE		IDLE SPEED	STARTING SYSTEM	REVERSIBILITY	WEIGHT OF THE UNIT	DIMENSIONS OF THE UNIT	AIR CONSUMPTION	ACCESSORIES	SOUND PRESSURE LEVEL	VIBRATIONS LEVEL
	Type	Nm	Nm	r.p.m.									
S-CA CZ4-A	↓	1+3,8	0,7+3,3	850	↓	↻	30	435x340x340	5	10-32 UNF	< 70	< 2,5	
S-CA CZ5-A	↓	0,8+4,7	0,7+4,3	600	↓	↻	30	435x340x340	5	10-32 UNF	< 70	< 2,5	
S-CA CS5-A	↓	2,5+5	1,8+4,8	1700	↓	↻	30	435x340x340	9	10-32 UNF	77	< 2,5	
S-CA CS6-A	↓	4+9	2+8,5	1000	↓	↻	30	435x340x340	9	10-32 UNF	77	< 2,5	
P-CA CZ4-A	↓	1+3,8	0,7+3,3	850	↓	↻	30	435x340x340	5	10-32 UNF	< 70	< 2,5	
P-CA CZ5-A	↓	0,8+4,7	0,7+4,3	600	↓	↻	30	435x340x340	5	10-32 UNF	< 70	< 2,5	
P-CA CS5-A	↓	2,5+5	1,8+4,8	1700	↓	↻	30	435x340x340	9	10-32 UNF	77	< 2,5	
P-CA CS6-A	↓	4+9	2+8,5	1000	↓	↻	30	435x340x340	9	10-32 UNF	77	< 2,5	

↻ NON REVERSIBLE SCREWDRIVER (only fastening)

↓ PUSH TO START

Features of screws which can be used:

- Head Ø from 4.5 to 10.5 mm.
- Total length screw: from 8 to 35 mm.
- Hex. head screws: max. hex. 7 mm.
- The total length of the cylindrical head screws must be at least 1.5 times the head diameter.

- The figures shown are measured at a pressure of 6.3 bar (ISO 2787), the recommended operating pressure.
- The tightening torque values have been measured in accordance with ISO 5393 standard.
- Sound pressure level has been measured in accordance with ISO 3744 and PN8NTC1.2 standards.
- Vibrations level has been measured in accordance with ISO 8662.1 and ISO 8662.7 standard.
- Accessory drive: Fil. nr. 10-32 UNF
- Electrical power supply: 220 Volt/50 Hz d.c.
- Connection hose from the unit to the tool: 3 m.
- How to order: contact your local distributor or FIAM Technical Assistance Service.

The data given in the table are indicative and can be changed without prior notice. The torque values are purely indicative and may be influenced by the softness of the type of joint, by the type and length of the screw, by the pressure and quantity of air supply, and by the type of accessory used. Sound pressure level and vibration levels were obtained in the laboratory, performing tests that comply with the standards stated, but alone are not sufficient for calculating risks. Values measured in the single work places may be higher than those stated. The values of actual exposure and consequent risks are specific and depend on the operator's method of work, the type of work piece and the work place, as well as the operator's time of exposure and his physical conditions. FIAM cannot be held responsible for any consequences deriving from the use of the information in the table when evaluating risks in the work place over which FIAM has no control. For all further details, please apply to the **FIAM Technical Assistance Service**.

FIAM

Other technical features

Models	Air inlet	Recommended hose bore
S-CA CZ4-A	1/4" gas	Ø 8 mm
S-CA CZ5-A	1/4" gas	Ø 8 mm
S-CA CS5-A	1/4" gas	Ø 8 mm
S-CA CS6-A	1/4" gas	Ø 8 mm
P-CA CZ4-A	1/4" gas	Ø 8 mm
P-CA CZ5-A	1/4" gas	Ø 8 mm
P-CA CS5-A	1/4" gas	Ø 8 mm
P-CA CS6-A	1/4" gas	Ø 8 mm

Standard equipment (supplied with the unit)

- Three bits.
- Clutch adjustment key.
- Hanging ring.
- Use and maintenance manual.
- Eco-friendly packaging.

Accessories available upon request

- Balancers and stands, see Fiam Accessories Catalogue.

Models available upon request

- Models for use in extremely restricted spaces or deep holes.
- Models for screwdriving with depth control.
- Models with non-scratching heads.
- Models with heads incorporating centering system.
- Models for use with 110 Volt/60 Hz power supplies.
- Models with bowl lining to protect screws against wear.
- Models with different screw dimensions than those indicated.
- Models with sound-proofed casing.
- Models with pistol grip tools.
- Models with slip clutch.
- Models with idle speed different from above chart.
- Models with lever start.
- Models with 90° feed (see photo).



Fiam

INDUSTRIAL AIR TOOLS

Fiam Utensili Pneumatici spa
 Viale Crispi, 123 - 36100 Vicenza / Italy
 Tel. +39.0444.385000 - Fax +39.0444.385002
 customerservice@fiamairtools.com
 www.fiamairtools.com



Quality Certification
 UNI EN ISO 9001 / ICIM 0250

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

