

26C



Speed. Efficiency. Accuracy.

The power of innovation.



**Straight, pistol
26C air screwdrivers**

- Torque range: from 0,4 to 12 Nm
- Automatic shut-off

Fiam[®]
PEOPLE AND SOLUTIONS

Searching for excellence, developing ideas.

Are you looking for innovation, practicality and accuracy?
Only the range of 26C tools can satisfy your needs. A modern 260 Watt power range, ideal in every type of industrial assembly: to overcome the performance's challenge with **different functionality levels** and thanks to the **control of the whole assembly process**.
For this reason each 26C tool is also designed to monitor the tightening cycle (poka-yoke system, anti-error system) or the assembled component, ensuring extraordinary results.

PAGE 4 **Level 1**

Screwdrivers with TRACS2 and TRACS3 torque control

Accurate, reliable, constant tightenings, cycle after cycle.
High torque repeatability on hard and soft joints
(low Mean Shift value with CM/CMK $\geq 1,67$)

PAGE 10 **Level 2**

Screwdrivers with TRACS2 and TRACS3 torque control + SCREWS COUNTING

26C tools with pneumatic pick up signal, subsequently converted into electric signal: it reports if the clutch shuts-off during the time set in the program. Therefore it allows to discriminate the screws that have been tightened incorrectly with consequent quality improvement of the assembled product.

PAGE 13 **Level 3**

Screwdrivers with TRACS2 and TRACS3 torque control + SCREWS COUNTING + JOINT MONITORING

26C tools with built-in torque transducer: in addition to controlling if the clutch is correctly shut-off, they read the torque applied by the tool on the joint.
It is therefore possible to process the tightening cycle by memorising the data and by identifying any error (partially tightened screw, screw already tightened, etc.).

Straight screwdriver



"Forward" pistol screwdriver



Pistol screwdriver



Control levels of the assembly process



Level 1

TRACS2 and TRACS3 torque control.

- TRACS CLUTCH
- ACCURATE TIGHTENINGS
- HIGH REPEATABILITY



Level 2

TRACS2 and TRACS3 torque control + screws counting.

- TRACS CLUTCH
- ACCURATE TIGHTENINGS
- HIGH REPEATABILITY
- COUNTING OF TIGHTENED SCREWS
- OK / KO CYCLE
- MONITORING OF THE TIGHTENING TIME



Level 3

TRACS2 and TRACS3 torque control + screws counting + joint monitoring.

- TRACS CLUTCH
- ACCURATE TIGHTENINGS
- HIGH REPEATABILITY
- COUNTING OF TIGHTENED SCREWS
- OK / KO CYCLE
- MONITORING OF THE TIGHTENING TIME
- JOINT MONITORING WITH BUILT-IN TRANSDUCER

Pistol UpGrip screwdriver



Solution with TOM-PM monitoring unit



Solution with TOCS-TC control unit



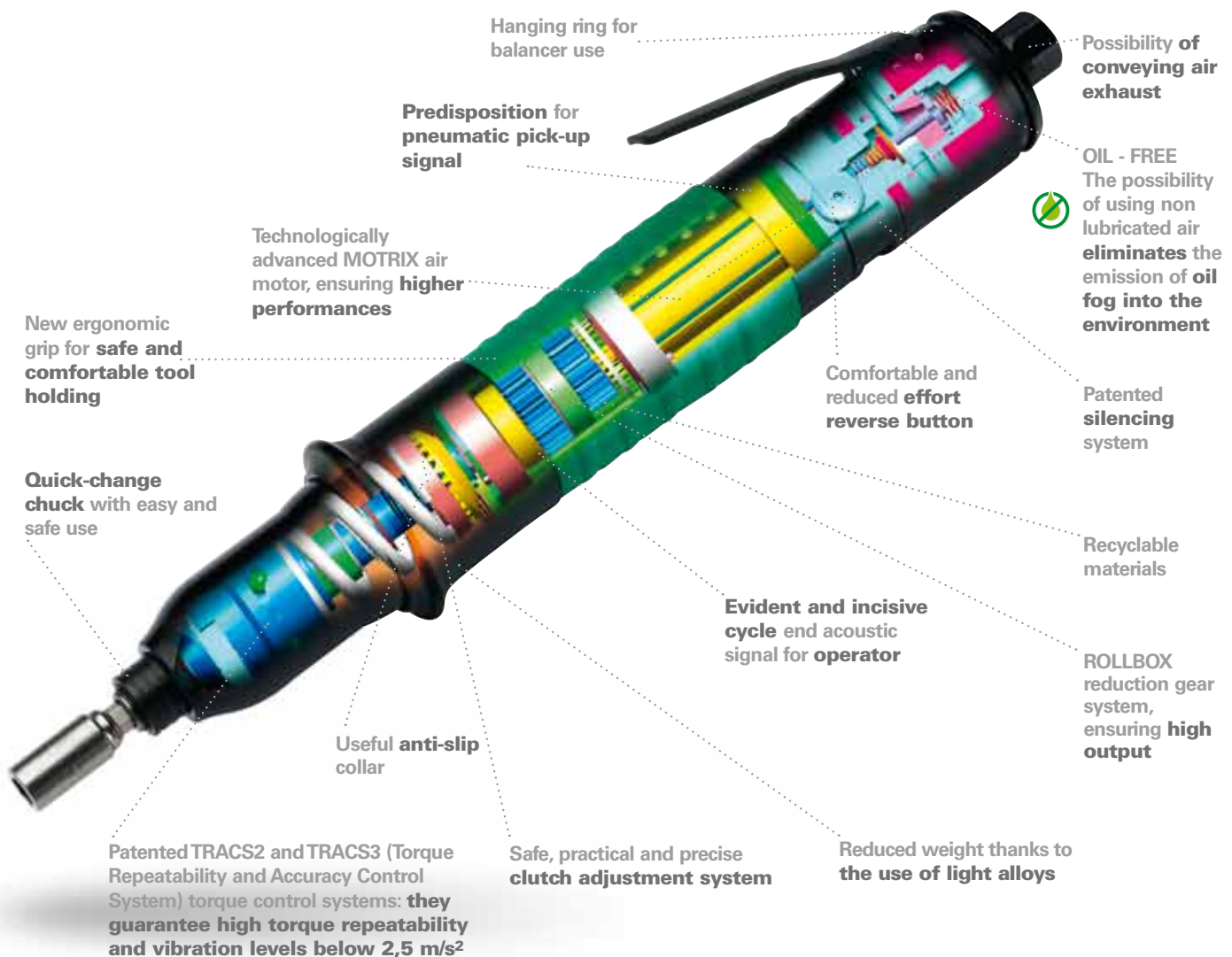
26C screwdrivers with TRACS2 and TRACS3 torque control

All Fiam innovation in your hands

For over 60 years Fiam has been moving towards the **future** and **research**. So it has designed the modern 26C air screwdrivers, increasing quality and performances.

Straight, pistol and pistol UpGrip tools are characterized by **their extreme handiness and ergonomic grip**: ideal for working with high productivity and minimum effort.

Modern solutions ideal in **mechanical, electrical, electronics and furniture fields**.





PATENTED EXCLUSIVELY BY FIAM

The pistol UpGrip model

Among the tested ranges of Fiam pistol grip screwdrivers, there is also available an **exclusive pistol UpGrip model**.

This screwdriver allows a comfortable access to those working places otherwise unreachable by the traditional air screwdrivers.

These situations can occur in different fields, such as those of the appliances field (e.g. in the assembly of the ovens).

The air feed from the top and ergonomic studies of the grip have brought to the design of **an extremely light, balanced and particularly handy tool**.

The UpGrip models, can be supplied, on request, with an insulated anti-slip plastic sheath

CSEZ...PURAS



For all further details, please apply to the Fiam Technical Consultancy Service.



Be demanding

Reliability

Long lifetime of the components thanks to careful design and to quality of the productive process which results in less maintenance and repair costs

MOTRIX: newly conceived air motor ensures **long lifetime, high specific power and maximum torque**

ROLLBOX: new reduction gear system has been designed to guarantee **maximum output, long lifetime of the kinematic chain and reduced noise level**

TRACS2 and TRACS3 (Torque Repeatability and Accuracy Control System): for torques respectively up to 5 Nm and 12 Nm, they are the **new tightening torque control systems** that ensure a very **high torque repeatability**, i.e. a very low Mean Shift value also in the presence of variability of the joint softness level. These systems maintain same torque values for hundreds of thousands of cycles. The TRACS systems guarantee a **high quality improvement** in the tightening process

Don't be satisfied with the maximum

Productivity

Considerable increase of the efficiency of the tightening cycle thanks to innovative systems

MOTRIX: innovative project principles guarantee a higher rotating speed of the new air motor with equal tightening torque, with evident **reduction of tightening cycle time**

TRACS2 and TRACS3: the modern torque control systems reduce to a minimum level the need of quality control at the end of the assembly process, with a remarkable **increase of the tightening cycle productivity**

Quick change chuck: it favours **easier and safer** bit replacement; it is available upon request, also for use of double insert bits

Clutch adjustment system: safe, practical and accurate

Grip design: it permits **extraordinary ease in handling** the screwdriver with **less operator fatigue** and significant increase of the productivity

More evident and incisive cycle end acoustic signal: emitted by the tightening torque control system permits the operator **to pass on to the next tightening cycle more rapidly**

Perfection is
in your hands

Ergonomics

Optimization of the tool performances in regard to ergonomics and operator safety

Ergonomic grip: designed according to modern biomechanics principles paying particular attention to the features of the female hand. The grip is manufactured with an ergonomic sheath made of no slip material making it easier to hold the screwdriver, increasing the hand grip, **improving the handling, the thermal isolation and operator's comfort**

TRACS2 and TRACS3: the modern torque control systems **reduce the reaction to the operator's hand**. Thanks to the immediate automatic air shut-off system with the careful study of the internal gears, the vibration levels are below 2,5 m/s² (ISO 8662-7)

Comfortable low effort reverse button (for straight models) / cursor (for pistol models): they reduce finger fatigue; they can be used by both right and left hand operators

Start lever for straight models: the **handling of the tool** is easier reducing fatigue and the effort of the operator



26C...APA

"Forward" pistol grip: indicated when balancing systems cannot be used, and where it does not need a particular push along the fastening axis

Anti-slip collar for straight models: it avoids that the hand slips towards the tightening point, above all in case of big thrust on the screw, **increasing the safety and reducing the operator's fatigue**

Possibility of conveying air exhaust away from the operator

Reduced weight thanks to the use of light alloys

Arranged for hanging ring for balancer use eliminating any operator's effort

Patented silencing system: these screwdrivers are extremely noiseless and are equipped with a controlled spread of the exhaust air



26C...AP

Pistol grip indicated for situations in which screwdriving operations require thrust along the screwdriving axis

This screwdriver is particularly suitable to the female hand

Naturally
innovative

Ecology

Innovative systems designed paying even more attention with respect to environment and of its safeguard

MOTRIX: the advanced technological design of the air motor permits very **high decrease of compressed air consumption**, without affecting tool performance

ROLLBOX: thanks to the new inner kinematic motions which optimize efficiency, the available power is being transmitted with **minimum dispersions**

TRACS2 and TRACS3: the torque control system has a high running speed which **reduces the working time of the screwdriver and the compressed air consumption**



Oil - Free: 26C screwdrivers work at maximum efficiency without need of lubrication

guaranteeing in such the **absence of oil exhaust** into the working environment

ECO-CONTRIBUTION WEEE ACQUITTED: Fiam carries out its obligations of producer, with full respect for the environment, and **without any extra charge for the customer**



Ergotech project
Having full knowledge of the ergonomics needs and of the safety of the operator, Fiam optimizes the performances of its tools and offers consulting and qualified training for the correct use of the screwdrivers

Type of screwdriver		Grip	Tightening torque on soft joint				Idle speed	Starting system	Reversibility	Weight	Dimensions (mm)	Air consumption	Accessories	Noise level*	Vibrations	
Model	Code		Type	Nm	Nm	in lb										in lb
26C4A	114814350	↓	0,4 ÷ 4		3.54 ÷ 35.4		2000	↓	↺	0,80	1.76	40x235	4,5	⊕ F 1/4"	75	<2,5
26C5A	114814351	↓	0,4 ÷ 5		3.54 ÷ 44.25		1350	↓	↺	0,80	1.76	40x235	6	⊕ F 1/4"	75	<2,5
26C8A	114814352	↓	3,5 ÷ 8		30.975 ÷ 70.8		1000	↓	↺	0,90	1.98	40x255	6	⊕ F 1/4"	75	<2,5
26C10A	114814353	↓	3,5 ÷ 9,5		30.975 ÷ 84.075		850	↓	↺	0,90	1.98	40x255	6	⊕ F 1/4"	75	<2,5
26C12A	114814354	↓	3,5 ÷ 12		30.975 ÷ 106.2		400	↓	↺	0,90	1.98	40x255	6	⊕ F 1/4"	75	<2,5
26C4AL	114814950	↓	0,4 ÷ 4		3.54 ÷ 35.4		2000	↑	↺	0,85	1.87	40x234	6	⊕ F 1/4"	75	<2,5
26C5AL	114814951	↓	0,4 ÷ 5		3.54 ÷ 44.25		1350	↑	↺	0,85	1.87	40x234	6	⊕ F 1/4"	75	<2,5
26C8AL	114814952	↓	3,5 ÷ 8		30.975 ÷ 70.8		1000	↑	↺	0,93	2.05	40x254	6	⊕ F 1/4"	75	<2,5
26C10AL	114814953	↓	3,5 ÷ 9,5		30.975 ÷ 84.075		850	↑	↺	0,93	2.05	40x254	6	⊕ F 1/4"	75	<2,5
26C12AL	114814954	↓	3,5 ÷ 12		30.975 ÷ 106.2		400	↑	↺	0,93	2.05	40x254	6	⊕ F 1/4"	75	<2,5
26C4AP	114814576	↘	0,4 ÷ 4		3.54 ÷ 35.40		2000	↘	↺	0,87	1.91	38x190x155	7	⊕ F 1/4"	73	<2,5
26C5AP	114814577	↘	0,4 ÷ 5		3.54 ÷ 44.25		1300	↘	↺	0,87	1.91	38x190x155	7	⊕ F 1/4"	73	<2,5
26C8AP	114814578	↘	3,5 ÷ 8		30.98 ÷ 70.80		1000	↘	↺	0,97	2.13	38x210x155	7	⊕ F 1/4"	73	<2,5
26C10AP	114814579	↘	3,5 ÷ 9,5		30.98 ÷ 84.08		800	↘	↺	0,97	2.13	38x210x155	7	⊕ F 1/4"	73	<2,5
26C12AP	114814580	↘	3,5 ÷ 12		30.98 ÷ 106.20		400	↘	↺	0,97	2.13	38x210x155	7	⊕ F 1/4"	73	<2,5
26C4APA	114814586	↘	0,4 ÷ 4		3.54 ÷ 35.40		2000	↘	↺	0,95	2.09	39x195x160	7	⊕ F 1/4"	73	<2,5
26C5APA	114814587	↘	0,4 ÷ 5		3.54 ÷ 44.25		1300	↘	↺	0,95	2.09	39x195x160	7	⊕ F 1/4"	73	<2,5
26C8APA	114814588	↘	3,5 ÷ 8		30.98 ÷ 70.80		1000	↘	↺	1,05	2.31	39x210x160	7	⊕ F 1/4"	73	<2,5
26C10APA	114814589	↘	3,5 ÷ 9,5		30.98 ÷ 84.08		800	↘	↺	1,05	2.31	39x210x160	7	⊕ F 1/4"	73	<2,5
26C12APA	114814590	↘	3,5 ÷ 12		30.98 ÷ 106.20		400	↘	↺	1,05	2.31	39x210x160	7	⊕ F 1/4"	73	<2,5


Pistol UpGrip model


CSEZ4PURAS	114814538	↘	1 ÷ 4		8.85 ÷ 35.40		2200	↘	↺	0,900	1,98	39x170x165	9	⊕ F 1/4"	74	<2,5
CSEZ5PURAS	114814539	↘	0,8 ÷ 4,3		708 ÷ 38.06		1600	↘	↺	0,900	1,98	39x185x165	9	⊕ F 1/4"	74	<2,5

Legend

26 = Power of the motor in Watt/10 • C = Screwdriver • 4 = Maximum tightening torque in Nm • A = Air shut-off system • L = Lever • P = Pistol grip • PA = 'Forward' pistol grip • PURAS = Pistol UpGrip model

Legend

 **Reversibility:** all models are suitable for tightening and untightening operations

 **Push start**

 **Lever start**

 **Push button**

 **Push button**

 **Push button**

- The figures shown are measured at a pressure of 6,3 bar (ISO 2787) the recommended operating pressure.
- Tightening torque values have been measured in accordance with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- * Additional factor: 3 dBA spread in method and production (ISO 15744).
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7 standards.
- Accessory drive: female hexagonal drive 1/4", 6,35 mm (ISO 1173).
- The code number must be used when ordering.

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. The values indicated for noise 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 Consultancy Service.

Other technical features

TRACS clutch spring / Assembled on the tool
grey colour - Ø wire 3,2 mm
Code 595103202

Supplied
black colour - Ø wire 2,2 mm
Code 595102204

Model	Tightening torque on soft joint		Tightening torque on soft joint	in lb
	Nm	in lb		
26C4...	1 ÷ 4	8.85 ÷ 35.40	0,4 ÷ 1,3	3.54 ÷ 11.51
26C5...	1 ÷ 5	8.85 ÷ 44.25	0,4 ÷ 1,3	3.54 ÷ 11.51

Model	Air inlet	Reccomended hose bore
26C...	1/4" gas	Ø 8 mm



26C air screwdrivers are designed for use with lubricated and unlubricated compressed air

Standard equipment (supplied with the tool)

- Clutch adjustment key
- Additional clutch spring (only for 26C4/5... models)
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

Accessories available upon request

- Bits, sockets, etc., balancers, exhaust silencers and other compressed air system accessories: see Accessories catalogue
- Collar bracket for arm stands to be used with straight models
Code 692039006 for 26C4... and 26C5... models
Code 692039007 for other models
- Auxiliary grip: when carrying out **more than one assembly cycle** or when the **torques are higher than 4Nm** (straight tools) or **than 10 Nm** (pistol tools), it is recommended to use an auxiliary grip which permits a reduction of the **torque reaction dividing work load on both hands** (EN 792-6 standard).
- BC 25 cartesian arms ensure **extremely high precision operation** since the tool is held perpendicular to the piece being worked on. Cartesian arms are characterised by extreme flexibility and practicality of use: **besides extension** over its entire height, **the rotational extent of the arm on the abscissa allows up to 180°** permitting a **wide operating area**.



For further information, please apply to the Fiam Technical Consultancy Service.

Models available upon request

Accessory	Straight models	Pistol models
Lever models for left hand operators	X	
Models with anti-slip collar with different dimensions	X	
Models with only right hand rotation	X	X
Models with only left hand rotation	X	X
Models with lever + push start (or push button + push start)	X	X
Models for double insert bits	X	X
Models with screws suction	X	X
Models with low speeds	X	X
Angle models: see catalogue nr. 26 and contact Fiam Technical Consultancy Service		

- The UpGrip models, can be supplied, on request, with an insulated anti-slip plastic sheath (add 1 at the end of the model: e.g. CSEZ...PURAS → CSEZ...PURAS1)

0% error, 100% accuracy.

Did you lose any screws? The **'screws count'** function will help you: therefore in case of high production rate, you won't risk any omission. Moreover, the feed-back signal and the end one to pass to next piece **accelerate the production cycles and ensure control on the assembled products.** So dead times will decrease and quality will increase.

The solution includes:

- Lever or push button air shut-off
26C SCREWDRIVERS equipped with pneumatic pick-up signal (ported)
- **COMPUTERIZED MONITORING UNIT TOM-PM** (Torque Operation Monitor - Pressure Monitoring): it allows the **monitoring of the tightening cycle through the double-signal pressure** coming from the screwdrivers, subsequently converted into electric signal.



A proved system against pressure changes.

The use of two pneumatic signals (tool start and clutch operated) guarantees the system functioning **regardless of the pressure changes**, critical point in many production lines. A considerable advantage in respect to other poka-yoke systems, which are more difficult to programme and use a single signal: the pressure difference when torque is obtained.

Monitoring unit				
Model	Description	Code	Dimensions (mm) width x depth x height	Electric feed
TOM-PM	Control unit	685001057	230x200x130	110/220V, 50/60 Hz

Legend

TOM-PM = Tightening Operation Monitor - Pressure Monitoring

Standard equipment (supplied with the unit)	Models available upon request
<ul style="list-style-type: none"> Kit of pressure switches (cod. 685001058) with pneumatic hoses and electric cable length to 3,0 mt. Power cord IN connector for unit operation Use and maintenance manual Eco-friendly packaging 	<ul style="list-style-type: none"> Customized models available. For example: <ul style="list-style-type: none"> - models provided with tightening/untightening/cycle end features - models suitable for use with autofed tightening unit EASYDRIVER CA (see cat. 89) - models provided with tightening sequence monitoring for more screwdrivers used by only one operator. Angle models: see Fiam catalogue nr. 26
Accessories available upon request	
<ul style="list-style-type: none"> 3 colors tower-light providing the same display light signals of the unit's led-lights (supplied with 3,0 mt long cable): cod. 686000606 	For further information please contact Fiam Technical Consultancy Service .

Features of the monitoring unit TOM-PM (Torque Operation Monitor - Pressure Monitoring)

- It is possible to set **1 sequence of tightening** through internal PLC
- Tightening sequence can contain **up to 999 screws**
- It is possible to **program the maximum number of tightening attempts** for KO screws
- Automatic check of tightening time** which can be adjusted by setting the cycle time thus discriminating the different KO results
- PLC programming keypad:** user friendly
- Visual indicators of the tightening status** positioned on the front panel of the unit
- Acoustic signal:** short → tightening OK, long → tightening KO
- Reset cycle or releasing pallet/jig** with key selector or PLC
- Electric signal for "end cycle OK"** to release pallet/jig (or manual with key selector)
- Last tightening annulled through button:** decrease on counter in case of untightening (when for example the piece has not been positioned)
- I/O Connectors** with contact to 24 Volt d.c. (max 0,5A for connection to PLC and/or to light signal systems)
- The unit can be connected only to one air tool equipped with **shut-off clutch, lever or push button (not push start) and double signal pressure (START AND TORQUE)**
- Weight: 2,0 Kg

Assembly operation	Led-lights on the TOM-PM front panel
Tightening OK	TIGHTENING OK: green led-light
Tightening sequence set	CYCLE END: yellow led-light TIGHTENING OK: green led-light
Fastening a screw already tightened	TIGHTENING KO: red led-light
Number of tightened screws	Counter on display
Number of tightenings KO	Counter on display
Screw stripping	TIGHTENING KO: red led-light, increase on counter KO and signal on display "T>T_MAX"
Releasing of the lever before the tightening is completed	Neither signal nor increase on the screw counter
Screw getting stuck; partial thread (clutch operated before minimum time set)	TIGHTENING KO: red led-light, increase on counter KO and signal on display "T<T_MIN"
Presence of different joint among foreseen joint types (clutch operated after maximum time set)	TIGHTENING KO: red led-light, increase on counter KO and signal on display "T>T_MAX"

Type of screwdriver	Model	Code	Grip	Tightening torque on soft joint				Idle speed	Starting system	Reversibility	Weight	Dimensions (mm)	Air consumption	Accessories	Noise level*	Vibrations	
				min. Nm	max. Nm	min. in lb	max. in lb										
	26C4AL-2CS	114807255		0,4 ÷ 4,0		3.54÷35.4		2000			0,85	1.87	40x234	6	Hex F 1/4"	75	<2,5
	26C5AL-2CS	114807256		0,4 ÷ 5,0		3.54-44.25		1350			0,85	1.87	40x234	6	Hex F 1/4"	75	<2,5
	26C8AL-2CS	114807257		3,5 ÷ 8,0		30.975÷70.8		1000			0,93	2.05	40x254	6	Hex F 1/4"	75	<2,5
	26C10AL-2CS	114807258		3,5 ÷ 9,5		30.975-84.075		850			0,93	2.05	40x254	6	Hex F 1/4"	75	<2,5
	26C12AL-2CS	114807259		3,5 ÷ 12		30.975÷106.2		400			0,93	2.05	40x254	6	Hex F 1/4"	75	<2,5
	26C4AP-2CS	114807224		0,4 ÷ 4,0		3.54÷35.40		2000			0,87	1.91	38x190x155	7	Hex F 1/4"	73	<2,5
	26C5AP-2CS	114807225		0,4 ÷ 5,0		3.54-44.25		1300			0,87	1.91	38x190x155	7	Hex F 1/4"	73	<2,5
	26C8AP-2CS	114807226		3,5 ÷ 8,0		30.975÷70.80		1000			0,97	2.13	38x210x155	7	Hex F 1/4"	73	<2,5
	26C10AP-2CS	114807227		3,5 ÷ 9,5		30.975-84.075		800			0,97	2.13	38x210x155	7	Hex F 1/4"	73	<2,5
	26C12AP-2CS	114807228		3,5 ÷ 12		30.98÷106.20		400			0,97	2.13	38x210x155	7	Hex F 1/4"	73	<2,5
	26C4APA-2CS	114807229		0,4 ÷ 4,0		3.54÷35.40		2000			0,95	2.09	39x195x160	7	Hex F 1/4"	73	<2,5
	26C5APA-2CS	114807230		0,4 ÷ 5,0		3.54-44.25		1300			0,95	2.09	39x195x160	7	Hex F 1/4"	73	<2,5
	26C8APA-2CS	114807231		3,5 ÷ 8,0		30.975÷70.80		1000			1,05	2.31	39x210x160	7	Hex F 1/4"	73	<2,5
	26C10APA-2CS	114807232		3,5 ÷ 9,5		30.975-84.075		800			1,05	2.31	39x210x160	7	Hex F 1/4"	73	<2,5
	26C12APA-2CS	114807233		3,5 ÷ 12		30.975÷106.20		400			1,05	2.31	39x210x160	7	Hex F 1/4"	73	<2,5

Legend

26 = Power of the motor in Watt/10 • C = Screwdriver • 4 = Maximum tightening torque in Nm • A = Air shut-off system • L = Lever • P = Pistol grip • PA = 'Forward' pistol grip • 2CS = Double-signal pressure

Legend

Reversibility: all models are suitable for tightening and untightening operations

Lever start
Push button

- The figures shown are measured at a pressure of 6,3 bar (ISO 2787) the recommended operating pressure.
- Tightening torque values have been measured in accordance with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- *Additional factor: 3 dBA spread in method and production (ISO 15744).
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7 standards.
- Accessory drive: female hexagonal drive 1/4"; 6,35 mm (ISO 1173).
- The code number must be used when ordering.

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. The values indicated for noise 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 Consultancy Service.

Standard equipment (supplied with the tool)

- Clutch adjustment key
- Additional clutch spring (only for 26C4/5...models)
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

Accessories available upon request

- Bits, sockets, etc., balancers, exhaust silencers and other compressed air system accessories: see Accessories catalogue
- Collar bracket for arm stands to be used with straight models
Code 692039006 for 26C4.. and 26C5...models
Code 692039007 for other models



**Screwdrivers with TRACS2 and TRACS3 torque control
+ screws counting + joint monitoring**

Joint monitoring: everything under control.

Are you looking for total reliability? You have just found it. When tightenings are difficult, **26C tools and the computerised torque monitoring TOCS-TC guarantee** an extraordinary quality and eliminate the possibility of error during the tightening cycle. Nothing will pass unnoticed: the cycle is monitored, the torque values are under control and the production waste is reduced to the minimum level.

The solution includes:

- **26C AIR SCREWDRIVERS:** the built-in strain gauge torque transducer converts the torque applied to the single joints into an electrical signal which is then processed by the TOCS-TC computerised unit
- **COMPUTERISED CONTROL UNIT TOCS-TC:** it defects and stores the tightening torque value, displays the cycle results (OK and KO) and monitors the tightening cycle through torque/time values, that can be easily stored.





TOCS-TC COMPUTERIZED UNIT

- **Available in two versions** with alphanumerical display (TOCS-TC...A) and graphic display (TOCS-TC...G); the latter allows the torque-time curve to be visualised.
- **In the version TOCS-TC-2CH it can be connected to two tools**, even different, working synchronically or asynchronously.

Control unit			
Model	Description	Code	Dimensions (mm) width x depth x height
TOCS-TC 1CH A	Control unit	686000131	210x330x125
TOCS-TC 2CH A	Control unit	686000132	210x330x125
TOCS-TC 1CH G	Control unit	686000133	210x330x125
TOCS-TC 2CH G	Control unit	686000134	210x330x125

Legend

TOCS -TC= Tightening Operations Control System - Torque Control • 1 CH = = 1 channel for connection to one tool • 2CH = 2 channels for connection to two different or similar tools, working synchronically or asynchronously • A = alphanumerical display • G = graphic display

Standard equipment (supplied with unit)	Accessories available upon request	Models available upon request
<ul style="list-style-type: none"> • 2m electric power cable • Use and maintenance manual • Eco-friendly packaging 	<ul style="list-style-type: none"> • OK/KO signal light column with built-in buzzer (code 686000182) • Transport handle 	<ul style="list-style-type: none"> • Version with network board for communicating with specific software (computerised unit programming + data acquisition)

TOCS-TC unit (Tightening Operation Control-System-Torque Control): technical features

The complete and simple programming menus offer:

- Up to 20 programme settings (MIN torque, MAX torque, MIN time, MAX time) and password protection;
- Tightening sequences settings with a maximum of 99 screws and a maximum number of repetitions in the event of a reject.

The I/O's of the unit offer:

- OK/KO signalling for each cycle and general OK/KO (end-of-sequence);
- 3 user configurable on-line printing modes;
- The type of possible rejects required can be detected through the correct programming of tightening cycle;
- The internal memory stores torque/time/result data concerning the last 1,000 tightening cycles (circular buffer);
- The system can be networked (proprietary protocol) with supervision (programming + data acquisition) and optional software.

Technical features


- **Built-in membrane programming** keyboard
- **Electrically powered (a.c.);** if power is interrupted, the data **memory** is maintained by a battery
- **Illuminated liquid crystal display** with 4 lines of 20 characters (version ...A) or graphic (version ...G)
- **RS232 output and LPT output** for connection to printer.
- **Visual indicators for signalling tightening status**, located on the panel:
RED = Tightening KO (incorrect)
GREEN = Tightening OK (correct) + pallet release signal
- **I/O connectors** with contacts powered at 24 Vdc (max. 0.5A) for connection to PLC and/or signal lights to indicate OK and KO tightening.


Type of screwdriver	Model	Code	Grip	Tightening torque on soft joint				Idle speed	Starting system	Reversibility	Weight	Dimensions (mm)	Air consumption	Accessories	Noise level*	Vibrations	
				min. Nm	max. Nm	min. in lb	max. in lb										
TC	26C4A-TC	on request	┆	0,4 ÷ 4		3.54÷35.4		2000	↕↕	↻	1,000	2.20	40x235	4,5	⊕ F 1/4"	75	<2,5
	26C5A-TC	on request	┆	0,4 ÷ 5		3.54÷44.25		1350	↕↕	↻	1,000	2.20	40x235	6	⊕ F 1/4"	75	<2,5
	26C8A-TC	on request	┆	3,5 ÷ 8		30.975÷70.8		1000	↕↕	↻	1,100	2.42	40x255	6	⊕ F 1/4"	75	<2,5
	26C10A-TC	on request	┆	3,5 ÷ 9,5		30.975÷84.075		850	↕↕	↻	1,100	2.42	40x255	6	⊕ F 1/4"	75	<2,5
	26C12A-TC	on request	┆	3,5 ÷ 12		30.975÷106.2		400	↕↕	↻	1,100	2.42	40x255	6	⊕ F 1/4"	75	<2,5
	26C4AL-TC	on request	┆	0,4 ÷ 4		3.54÷35.4		2000	↕	↻	1,050	2.31	40x234	6	⊕ F 1/4"	75	<2,5
	26C5AL-TC	on request	┆	0,4 ÷ 5		3.54÷44.25		1350	↕	↻	1,050	2.31	40x234	6	⊕ F 1/4"	75	<2,5
	26C8AL-TC	on request	┆	3,5 ÷ 8		30.975÷70.8		1000	↕	↻	1,130	2.486	40x254	6	⊕ F 1/4"	75	<2,5
	26C10AL-TC	on request	┆	3,5 ÷ 9,5		30.975÷84.075		850	↕	↻	1,130	2.486	40x254	6	⊕ F 1/4"	75	<2,5
	26C12AL-TC	on request	┆	3,5 ÷ 12		30.975÷106.2		400	↕	↻	1,130	2.486	40x254	6	⊕ F 1/4"	75	<2,5
	26C4AP-TC	on request	↔	0,4 ÷ 4		3.54÷35.4		2000	↔	↻	1,070	2.354	38x190x155	7	⊕ F 1/4"	73	<2,5
	26C5AP-TC	on request	↔	0,4 ÷ 5		3.54÷44.25		1300	↔	↻	1,070	2.354	38x190x155	7	⊕ F 1/4"	73	<2,5
26C8AP-TC	on request	↔	3,5 ÷ 8		30.975÷70.8		1000	↔	↻	1,170	2.574	38x210x155	7	⊕ F 1/4"	73	<2,5	
26C10AP-TC	on request	↔	3,5 ÷ 9,5		30.975÷84.075		800	↔	↻	1,170	2.574	38x210x155	7	⊕ F 1/4"	73	<2,5	
26C12AP-TC	on request	↔	3,5 ÷ 12		30.975÷106.2		400	↔	↻	1,170	2.574	38x210x155	7	⊕ F 1/4"	73	<2,5	
26C4APA-TC	on request	↔	0,4 ÷ 4		3.54÷35.4		2000	↔	↻	1,150	2.53	39x195x160	7	⊕ F 1/4"	73	<2,5	
26C5APA-TC	on request	↔	0,4 ÷ 5		3.54÷44.25		1300	↔	↻	1,150	2.53	39x195x160	7	⊕ F 1/4"	73	<2,5	
26C8APA-TC	on request	↔	3,5 ÷ 8		30.975÷70.8		1000	↔	↻	1,250	2.75	39x210x160	7	⊕ F 1/4"	73	<2,5	
26C10APA-TC	on request	↔	3,5 ÷ 9,5		30.975÷84.075		800	↔	↻	1,250	2.75	39x210x160	7	⊕ F 1/4"	73	<2,5	
26C12APA-TC	on request	↔	3,5 ÷ 12		30.975÷106.2		400	↔	↻	1,250	2.75	39x210x160	7	⊕ F 1/4"	73	<2,5	


Legend

26 = Power of the motor in Watt/10 • C = Screwdriver • 4 = Maximum tightening torque in Nm • A = Air shut-off system • L = Lever • P = Pistol grip • PA = 'Forward' pistol grip • TC = Torque Control

Legend

 **Reversibility:** all models are suitable for tightening and untightening operations

 **Lever start**

 **Push button**

- The figures shown are measured at a pressure of 6,3 bar (ISO 2787) the recommended operating pressure.
- Tightening torque values have been measured in accordance with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- *Additional factor: 3 dBA spread in method and production (ISO 15744).
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7 standards.
- Accessory drive: female hexagonal drive 1/4"; 6,35 mm (ISO 1173).
- The code number must be used when ordering.

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. The values indicated for noise 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 Consultancy Service.

Standard equipment (supplied with the tool)

- Clutch adjustment key
- Additional clutch spring (only for 26C4/5 models)
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging
- 5m connection cable, required to connect the screwdriver to the control unit (code 676300195)

Accessories available upon request

- Bits, sockets, etc., balancers, exhaust silencers and other compressed air system accessories: see Accessories catalogue
- Collar bracket for arm stands to be used with straight models
Code 692039006 for 26C4... and 26C5... models
Code 692039007 for other models



Models available upon request

- Angle models: see Fiam catalogue nr. 26

The advantages of a customized product.

If your needs change, it is important to rely on customized solutions. **All products can be customized to different production needs, without losing efficiency.**

Fiam technicians are ready to listen to you and to transform your problems into solutions.

Low speed, high performances.

When working with stainless steel and with particularly difficult tightenings, it is fundamental to have low speeds.

26C models can satisfy your needs: **upon request they can be customized with different speeds than the ones indicated on our catalogue.**



Efficacy thanks to the screws suction device.

Do you have non-magnetised **stainless screws**? You can rely on our **screws suction devices**. Simply connect the 26C tools to a vacuum pump: the special head makes handling and positioning of the screws easier and safer. Moreover the heads can be customized.

The piece to be assembled has changed?

You will always have a made to measure instrument.

