

Core innovation



Body perfection

**New
pistol air screwdrivers 15C**

Fiam

PEOPLE AND SOLUTIONS

**New
pistol air screwdrivers 15C**

The future of tightening is already here

The very modern air screwdrivers 15C introduce within the tightening scenery a new higher reference standard, in terms of quality and performance. They represent the ideal solution to obtain speed, power and efficiency in every assembly operation.

Safe, practical and precise
clutch adjustment system

Quick-change chuck with
easy and safe use

Patented TRACS 2 (Torque
Repeatability and Accuracy
Control System) torque control
system; it guarantees high
torque repeatability and
vibration levels below 2,5 m/s²

ROLLBOX reduction gear
system, ensuring high output

Reduced weight thanks to the
use of light alloys

Hanging ring for
balancer use

Low effort button with gradual
starting system

Usable both for right and left
hand operators

15C: Innovation continues

Recyclable materials

Comfortable and reduced effort reverse button

Technologically advanced MOTRIX air motor, ensuring higher performances



Ergonomic grip with no slip sheath for safe and comfortable tool holding



Patented silencing system

OIL - FREE
The possibility of using non lubricated air eliminates the emission of oil fog into the environment



Possibility of conveying air exhaust



Reliability **Productivity** **Ergonomics** **Ecology**

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**

TRACS 2 (Torque Repeatability and Accuracy Control System): the new torque control system ensures a very **high torque repeatability**, i.e. a very low Mean Shift value also in the presence of variability of the joint softness level. This system maintains same torque values for hundreds of thousands of cycles. TRACS 2 system guarantees **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**

TRACS 2: the modern torque control system reduces 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

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

Real size 1:1



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**

Low effort starting button: it reduces finger fatigue

TRACS 2: the modern torque control system **reduces 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 reverse button: usable both for right and left hand operators



15C...APA

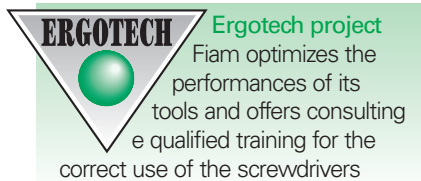
"Forward" pistol grip: indicated when balancing systems cannot be used, and where it does not need a particular push along the fastening axis

Possibility of conveying air exhaust away from the operator

Reduced weight thanks to the use of light alloys

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



15C...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**

TRACS 2: the torque control system has a high running speed which **reduces the working time of the screwdriver and the compressed air consumption**

OIL - FREE: 15C screwdrivers work at maximum efficiency without need of lubrication guaranteeing in such the **absence of oil exhaust** into the working environment



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.	max.									
			Type	Nm	Nm	r.p.m.	Type	Type	kg	Øxbxh	l/s	Drive	dBA	m/s²
	15C2APA	112514522		0,6 ÷ 2,2		2200			0,70	31x178x156	6	Hex F 1/4"	71	<2,5
	15C3APA	112514523		0,4 ÷ 3,5		1400			0,72	31x178x156	6	Hex F 1/4"	71	<2,5
	15C4APA	112514524		0,4 ÷ 4,5		950			0,72	31x178x156	6	Hex F 1/4"	71	<2,5
	15C5APA	112514525		0,4 ÷ 5,0		650			0,72	31x178x156	6	Hex F 1/4"	71	<2,5
	15C2AP	112514532		0,6 ÷ 2,2		2200			0,70	37x209x157	6	Hex F 1/4"	71	<2,5
	15C3AP	112514533		0,4 ÷ 3,5		1400			0,72	37x209x157	6	Hex F 1/4"	71	<2,5
	15C4AP	112514534		0,4 ÷ 4,5		950			0,72	37x209x157	6	Hex F 1/4"	71	<2,5
	15C5AP	112514535		0,4 ÷ 5,0		650			0,72	37x209x157	6	Hex F 1/4"	71	<2,5

Legend

15 = Power of the motor in Watt/10 • C = Screwdriver • 2 = Maximum tightening torque in Nm • A = Air shut-off system • P = Pistol Grip • PA = "forward" pistol grip

Legend

Reversibility: all models are suitable for tightening and untightening operation

Push button

Push button

- 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.
- 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

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 (Nm)	Tightening torque on soft joint (Nm)
15C2...	0,8 ÷ 2,2	0,6 ÷ 1,2
15C3...	0,8 ÷ 3,5	0,4 ÷ 1,2
15C4...	0,8 ÷ 4,5	0,4 ÷ 1,2
15C5...	0,8 ÷ 5	0,4 ÷ 1,2
Model	Air inlet	Recommended hose bore
15C...	1/4" gas	Ø 5 mm

15C air screwdrivers are designed for use with lubricated and unlubricated compressed air

Standard equipment (supplied with the tool)

- Clutch adjustment key
- Additional clutch spring
- 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)

Models available upon request

- Models with only right hand rotation
 - Models with only left hand rotation
- Please apply to the Fiam Technical Consultancy Service

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