



The best choice for those people who search practicality and reliability.



**Air screwdrivers/nutrunners with slip clutch
and with external slip clutch adjustment**

Straight, pistol and angle models
Torque range: from 0,6 to 22 Nm

Fiam[®]
PEOPLE AND SOLUTIONS

Air screwdrivers/nutrunners with slip clutch and with external slip clutch adjustment

Tightening has never been so easy.

Fiam screwdrivers/nutrunners with slip clutch permit to tighten every type of component efficiently and with minimum effort; they stand out because of their reliability and low noise level.

They can be used in any productive field and their applications are different: assembly of wood furniture, plastic components, metal sheets, toys, household appliances, etc.

Extremely versatile, their dimensions and features permit to advantageously use them **on any type of material, with any kind of threaded element, even in areas with limited space or restricted access.**

The wide range, available with different powers and type of clutch, includes many models with different grips and features that make them extremely sturdy and reliable even in the most difficult working conditions.



CZ...R models



AZ...R models



CSE...R models



Various solutions for any requirement

AIR SCREWDRIVERS/NUTRUNNERS WITH SLIP CLUTCH

They are used in many applications for different products and screws. The clutch adjustment is practical and fast and allows use on different type of screws.

CZ... R and AZ...R models

With 130 Watt in power, they tighten metric screws up to M4 – M5 and self-threading screws (especially on plastic materials)

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CSE...R and AS...R models

With 260 Watt in power, they tighten every type of component; they can be used with metric screws up to M6 – M8

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CY...R1 models

With 400 Watt in power, they can tighten metric screws up to M10 and self-drilling, self-threading screws

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AIR SCREWDRIVERS WITH EXTERNAL SLIP CLUTCH ADJUSTMENT

Ideal instruments to quickly and effectively solve any tightening need; they are useful when it is necessary to change screws and component to be assembled very often: they allow to quickly and repeatedly adjust the tightening torque to change the screw through the external clutch adjustment avoiding long operation of internal adjustment of the tool, as for the other types of screwdrivers/nutrunners.

CSE...RE models

With 260 Watt in power, they tighten every type of component; they can be used with metric screws up to M6 - M8

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AS...R models



CY...R models



CSE...RE models



Be demanding

**Don't be satisfied
with the maximum**

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

Made in Fiam: designed and manufactured by Fiam, they guarantee the correct functioning in every working condition, **on every type of joint and with every type of threaded element**

Thanks to their **Uni-Jointech torque control system** (slip clutch), they are extremely versatile: it is up to the operator to decide when to stop the tightening process

High resistance: the robust, reliable construction materials guarantee **constant performances and long life of the tool**

The **heads of the AZ, AS...R angle models**, in spite of their small dimensions, in respect to the high torque values given by the nutrunners, are **solid and have long lasting life**

Productivity

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

Angle models with **30° and 90° head** are necessary when you need to tighten joints in **areas of limited spaces or restricted access** thanks to their reduced dimensions

The **quick-change chuck** of the CSE...R models allows a **faster replacement of the accessories** (bits, etc.) and maximum work safety for the operator

The AZ...R, CZ and CY models are equipped with **comfortable reverse button with locking device** to tighten/untighten with high speed

The models with external clutch adjustment are useful to quickly and rapidly tighten **small batches production** and when it is necessary to **repeatedly change the screw and therefore adjust the tightening torque**

With respect to a standard screwdriver with slip clutch, all models with external clutch adjustment allow to avoid long operations of internal adjustment thus increasing productivity

Do you quickly and repeatedly adjust the tightening torque to change the screw?



The CSE...RE models have an external slip clutch adjustment: thanks to a regulator on the ring nut it is possible to increase and decrease the tightening torque, **just turning the ring** towards the symbols + or - indicated by the arrow

Perfection is
in your hands

Ergonomics

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

The **low weight** and the **ergonomic grips** make easier to hold the tool, improving the handling and operator's comfort

In respect to a screwdriver without clutch (direct drive), the slip clutch type guarantees an **extreme easy handling in the tightenings which reduces any reaction on the operator's hand**

All models are equipped with hanging ring, allowing a **very good balancing of the tool and improving handling**

For straight and angle models, the **insulated grip** guarantees thermal insulation of the operator's hand in case of sudden changes in temperature

For straight models, the grip's **shape** and the **non slip grip** avoid that the hand slips towards the tightening point, above all in case of big thrust on the screw

The pistol grip is characterised by **'high grip'** for exercising sufficient thrust keeping the tool aligned with the arm. It ensures the arm is not subject to bending force which would fatigue it

Comfortable reverse button: it reduces finger fatigue of the operator

The **built-in silencing system** and the **controlled diffusion of the exhaust air flow** (for the pistol grip version) allow to considerably reduce the noise level

The grip is designed to be used **both by right and left hand operators** and to guarantee the correct ergonomics to the **female hand** too

CY models are provided with an **easy-to-use double button starting system:** the top button commands right rotation; the lower button, besides controlling left rotation, is provided with a locking device to facilitate tightening operations



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 tools



For onerous applications in according to ISO 11148-6 standard and especially when the torques are higher than 4 Nm (straight tools) or than 10 Nm (pistol tools), it is recommended to use an auxiliary grip (supplied with some models) which permits a reduction of the torque reaction sharing rebound reaction on both hands.

Air screwdrivers with auxiliary grip.

Naturally
innovative

Ecology

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

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

All the components are **easy to dispose of** because they are built **using recyclable materials**; therefore they won't be an environmental pollution and/or personal safety hazard

All Fiam products are supplied with eco-friendly packaging



The possibility of using non lubricated air **eliminates the emission of oil fog** into the environment

Air screwdrivers and nutrunners with slip clutch - CZ...R and AZ...R models

Type of screwdriver/nutrunner		Grip	Tightening torque on soft joint		Idle speed	Starting system	Reversibility	Weight		Dimensions (mm)	Air consumption	Accessories	Noise level*
			min.	max.									
Model	Code	Type	Nm	in lb	rpm	Type	Type	kg	lb	Øxh	l/s	Drive	dBA
CZ2R	112511902		0,8÷2,5	708 - 22.125	2800			0,460	1.012	32x204	5	F 1/4"	74
CZ3R	112511903		0,8÷3	708 - 26.55	1300			0,490	1.078	32x216	5	F 1/4"	74
CZ4R	112511904		0,8÷3,3	708 - 29.205	850			0,490	1.078	32x216	5	F 1/4"	74
CZ5R	112511905		0,6÷4,2	5.31 - 37.17	600			0,490	1.078	32x216	5	F 1/4"	74
CZ2R-WP	112509248		0,8÷2,5	708 - 22.125	2800			0,460	1.012	32x204	5	F 1/4"	74
CZ3R-WP	112509227		0,8÷3	708 - 26.55	1300			0,490	1.078	32x216	5	F 1/4"	74
CZ4R-WP	112509237		0,8÷3,3	708 - 29.205	850			0,490	1.078	32x216	5	F 1/4"	74
CZ5R-WP	112509214		0,6÷4,2	5.31 - 37.17	600			0,490	1.078	32x216	5	F 1/4"	74
SCZ2R	112511302		0,8÷2,5	708 - 22.125	2800			0,460	1.012	32x192	5	F 1/4"	74
SCZ3R	112511303		0,8÷3	708 - 26.55	1300			0,490	1.078	32x204	5	F 1/4"	74
SCZ4R	112511304		0,8÷3,3	708 - 29.205	850			0,490	1.078	32x204	5	F 1/4"	74
SCZ5R	112511305		0,6÷4,2	5.31 - 37.17	600			0,490	1.078	32x204	5	F 1/4"	74
CZ2PR1	112511502		0,8÷2,5	708 - 22.125	2700			0,660	1.452	27x190x140	5	F 1/4"	73
CZ3PR1	112511503		0,8÷3,5	708 - 30.975	1350			0,700	1.54	27x202x140	5	F 1/4"	73
CZ4PR1	112511504		0,8÷3,8	708 - 33.63	900			0,700	1.54	27x202x240	5	F 1/4"	73
CZ5PR1	112511505		0,6÷4,2	5.31 - 37.17	600			0,700	1.54	27x202x140	5	F 1/4"	73
CZ2PR1-WP	112509510		0,8÷2,5	708 - 22.125	2700			0,660	1.452	27x190x140	5	F 1/4"	73
CZ3PR1-WP	112509351		0,8÷3,5	708 - 30.975	1350			0,700	1.54	27x202x140	5	F 1/4"	73
CZ4PR1-WP	112509511		0,8÷3,8	708 - 33.63	900			0,700	1.54	27x202x240	5	F 1/4"	73
CZ5PR1-WP	112509353		0,6÷4,2	5.31 - 37.17	600			0,700	1.54	27x202x140	5	F 1/4"	73
AZ2R30	112531912		0,8÷2,3	708 - 20.355	2800			0,630	1.386	see pag. 7	5	M 1/4"	74
AZ3R30	112531913		0,8÷2,9	708 - 25.665	1300			0,660	1.452	see pag. 7	5	M 1/4"	74
AZ4R30	112531914		0,9÷3,2	7965 - 28.32	900			0,660	1.452	see pag. 7	5	M 1/4"	74
AZ5R30	112531915		1÷4	8.85 - 35.4	600			0,660	1.452	see pag. 7	5	M 1/4"	74
AZ2R90	112591912		0,8÷2,3	708 - 20.355	2800			0,630	1.386	see pag. 7	5	M 1/4"	74
AZ3R90	112591913		0,8÷2,9	708 - 25.665	1300			0,660	1.452	see pag. 7	5	M 1/4"	74
AZ4R90	112591914		0,9÷3,2	7965 - 28.32	900			0,660	1.452	see pag. 7	5	M 1/4"	74
AZ5R90	112591915		1÷4	8.85 - 35.4	600			0,660	1.452	see pag. 7	5	M 1/4"	74

Legend



Reversibility: the reversible models are suitable for tightening and untightening operation



Lever start + push to start



Push button



Lever start



Lever start



Push to start



Lever start



Push button + push to start

- 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.
- Accessory drive: 1/4" 6,35 mm female hexagonal drive (ISO 1173); male drive (ISO 1174).
- 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.

* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s². We therefore recommend to use Fiam air screwdrivers with a Jointech-Plus torque control system with automatic and immediate air shut-off) which have a vibration level of less than 2,5 m/s².



All air screwdrivers/nutrunners are designed for use with lubricated and unlubricated compressed air

Other technical features

Models	Air inlet	Recommended hose bore
CZ...R; CZ...R-WP; SCZ...R	1/8" gas	Ø 5 mm
CZ...PR1; CZ...PR1-WP	1/4" gas	Ø 5 mm
AZ...R30	1/8" gas	Ø 5 mm
AZ...R90	1/8" gas	Ø 5 mm

Chart of torque range obtainable with clutch springs assembled on the tool, supplied with or upon request

Clutch spring	Assembled on the tool Brown clutch spring Ø wire 1,6 mm Cod 595201600		Upon request Neutral clutch spring Ø wire 1,2 mm Code 595201203		Supplied with Pink clutch spring Ø wire 2,0 mm Code 595202000		Supplied with Silver clutch spring Ø wire 2,1 mm Code 595202100		Supplied with Gold clutch spring Ø wire 2,2 mm Code 595202200	
Model	Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)	
CZ2R; CZ2R-WP; SCZ2R	0,8 ÷ 2,5	7,08 - 22.125	0,3 ÷ 1,5	2.655 - 13.275						
CZ3R; CZ3R-WP; SCZ3R	0,8 ÷ 2,2	7,08 - 19.47	0,3 ÷ 1,0	2.655 - 8.85	1,8 ÷ 3,0	15.93 - 26.55				
CZ4R; CZ4R-WP; SCZ4R	0,8 ÷ 2,5	7,08 - 22.125	0,3 ÷ 0,7	2.655 - 6.195			2,0 ÷ 3,3	17,7 - 29.205		
CZ5R; CZ5R-WP; SCZ5R	0,6 ÷ 1,9	7,08 - 16.815	0,3 ÷ 0,6	2.655 - 5.31					1,0 ÷ 4,2	8.85 - 37.17
CZ2PR1; CZ2PR1-WP	0,8 ÷ 2,5	7,08 - 22.125	0,3 ÷ 1,5	2.655 - 13.275						
CZ3PR1; CZ3PR1-WP	0,8 ÷ 2,4	7,08 - 21.24	0,3 ÷ 1,0	2.655 - 8.85	2,2 ÷ 3,5	19.47 - 30.975				
CZ4PR1; CZ4PR1-WP	0,8 ÷ 1,9	7,08 - 16.815	0,3 ÷ 0,7	2.655 - 6.195			1,1 ÷ 3,8	9.735 - 33.63		
CZ5PR1; CZ5PR1-WP	0,6 ÷ 2,0	5.31 - 17.7	0,3 ÷ 0,6	2.655 - 5.31					1,0 ÷ 4,2	8.85 - 37.17
AZ...R			0,5 ÷ 1,0	4.425 - 8.85						

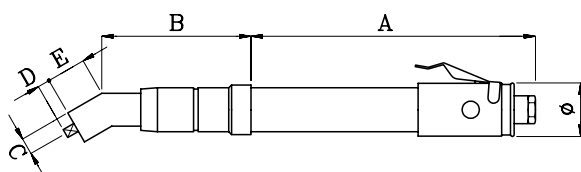
Standard equipment (supplied with the tool)

- Clutch adjustment key
- Additional clutch spring (except for angle models)
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

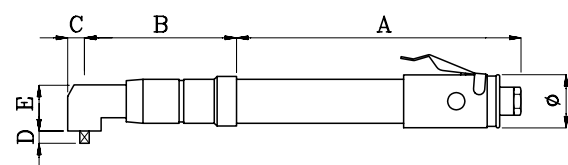
Models available upon request

- All angle models are available with female hexagonal driver for adapters (BIT): when ordering add BIT to the end of the models number (eg.: AZ...R30 → AZ...R30-BIT)
- Models with only right rotation
- Models with quick-change chuck: add M to code number when ordering (eg: CZ4PR1 → CZ4PR1M)

Dimensions (mm)































































Models	A	B	C	D	E	Ø
AZ2R30	165	75	10	8,5	20	32
AZ3R30	180	75	10	8,5	20	32
AZ4R30	180	75	10	8,5	20	32
AZ5R30	180	75	10	8,5	20	32



Models	A	B	C	D	E	Ø
AZ2R90	165	75	10	8,5	29	32
AZ3R90	180	75	10	8,5	29	32
AZ4R90	180	75	10	8,5	29	32
AZ5R90	180	75	10	8,5	29	32

Air screwdrivers with slip clutch - CSE...R and AS...R models

Type of screwdriver/nutrunner		Grip	Tightening torque on soft joint		Idle speed	Starting system	Reversibility	Weight		Dimensions (mm)	Air consumption	Accessories	Noise level*
			min.	max.									
Model	Code	Type	Nm	in lb	rpm	Type	Type	kg	lb	ØxLxh	l/s	Drive	dBA
CSE5LR	114812920		1 ÷ 5	8.85 - 44.25	2500			0,82	1.804	40x222	9	 F 1/4"	76
CSE6LR	114812925		1,5 ÷ 6	13.275 - 53.1	1500			0,82	1.804	40x222	9	 F 1/4"	76
CSE8LR	114812930		1,5 ÷ 8	13.275 - 70.8	1000			0,82	1.804	40x222	9	 F 1/4"	76
CSE10LR	114812935		1,5 ÷ 10	13.275 - 88.5	500			0,82	1.804	40x222	9	 F 1/4"	76
SCSE5R	114812320		1 ÷ 5	8.85 - 44.25	2500			0,82	1.804	40x226	9	 F 1/4"	76
SCSE6R	114812325		1,5 ÷ 6	13.275 - 53.1	1500			0,82	1.804	40x226	9	 F 1/4"	76
SCSE8R	114812330		1,5 ÷ 8	13.275 - 70.8	1000			0,82	1.804	40x226	9	 F 1/4"	76
SCSE10R	114812335		1,5 ÷ 10	13.275 - 88.5	500			0,82	1.804	40x226	9	 F 1/4"	76
CSE5PR	114812534		1 ÷ 5	8.85 - 44.25	2300			0,92	2.024	36x212x154	9	 F 1/4"	74
CSE6PR	114812535		1,5 ÷ 6	13.275 - 53.1	1400			0,98	2.156	36x224x154	9	 F 1/4"	74
CSE8PR	114812538		1,5 ÷ 8	13.275 - 70.8	900			0,98	2.156	36x224x154	9	 F 1/4"	74
CSE10PR	114812540		1,5 ÷ 10	13.275 - 88.5	450			0,98	2.156	36x224x154	9	 F 1/4"	74
AS5R	114891915	 90°	1,8 ÷ 9	15.93 - 79.65	1400			0,970	2.134	see pag. 9	9	 M 3/8"	78
AS6R	114891916	 90°	2 ÷ 15	17.7 - 132.75	700			1,250	2.75	see pag. 9	9	 M 3/8"	78
AS8R	114891918	 90°	2,5 ÷ 19	22.125 - 168.15	300			1,250	2.75	see pag. 9	9	 M 3/8"	78

Legend

 **Reversibility:** the reversible models are suitable for tightening und untightening operation



Lever start



Push to start



Push button



Lever start

- 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.
- Accessory drive: 1/4", 6,35 mm female hexagonal drive (ISO 1173); male drive (ISO 1174).
- 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.

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Other technical features

Models	Air inlet	Recommended hose bore
CSE...LR; SCSE...R; CSE...PR; AS...R	1/4" gas	Ø 8 mm

Chart of torque range obtainable with clutch springs assembled on the tool or supplied with

Clutch spring	Assembled on the tool White clutch spring Ø wire 2,5 mm Code 595102502		Supplied with Light blue clutch spring Ø wire 1,5 mm Code 595101509		Supplied with Pink clutch spring Ø wire 2,0 mm Code 595102006		Supplied with Red clutch spring Ø wire 3,5 mm Code 595103504	
Model	Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)		Torque range on soft joint (Nm) (in lb)	
CSE5LR; SCSE5R; CSE5PR	3 ÷ 5	26.55 - 44.25	1 ÷ 3,2	8.85 - 28.32				
CSE6LR; SCSE6R; CSE6PR	3 ÷ 6	26.55 - 53.1			1,5 ÷ 4,5	13.275 - 39.825		
CSE8LR; SCSE8R; CSE8PR	1,5 ÷ 6	13,275 - 53.1					4 ÷ 8	35.4 - 70.8
CSE10LR; SCSE10R; CSE10PR	1,5 ÷ 4,5	13.275 - 39.825					3,5 ÷ 10	30.975 - 88.5

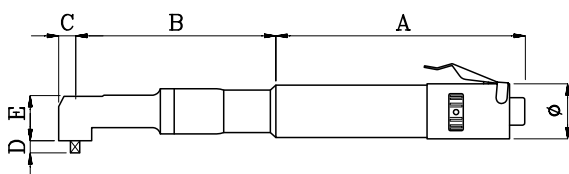
Standard equipment (supplied with the tool)

- Clutch adjustment key
- Additional clutch spring (except for angle models)
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

Models available upon request

- All angle models are available with female hexagonal driver for adapters (BIT): when ordering add BIT to the end of the models number (eg.: AS6R → AS6R-BIT)

Dimensions (mm)



Models	A	B	C	D	E	Ø
AS5R	175	100	12,5	12	30,5	40
AS6R	175	135	14	12	36	40
AS8R	175	135	14	12	36	40

Air screwdrivers with slip clutch - CY...R1 models

Type of screwdriver		Grip	Tightening torque on soft joint		Idle speed	Starting system	Reversibility	Weight		Dimensions (mm)	Air consumption	Accessories	Noise level *
			min.	max.									
Model	Code	Type	Nm	in lb	rpm	Type	Type	kg	lb	ØxLxH	l/s	Drive	dBA
CY7R1	116511901		4,5÷13	39.825-115.05	1600			1,100	2.42	46x285	10	Hex F 1/4"	80
CY9R1	116511902		6÷16	53.1 - 141.6	700			1,300	2.86	46x315	10	Hex F 1/4"	80
CY11R1	116511903		6÷22	53.1 - 194.7	450			1,300	2.86	46x315	10	Hex F 1/4"	80
CY7R1-WP	116509113		4,5÷13	39.825-115.05	1600			1,100	2.42	46x285	10	Hex F 1/4"	80
CY9R1-WP	116509114		6÷16	53.1 - 141.6	700			1,300	2.86	46x315	10	Hex F 1/4"	80
CY11R1-WP	116509115		6÷22	53.1 - 194.7	450			1,300	2.86	46x315	10	Hex F 1/4"	80
CY7PR1	116511501		4,5÷13	39.825-115.05	1600			1,370	3.014	46x208x175	10	Hex F 1/4"	80
CY9PR1	116511502		6÷16	53.1 - 141.6	700			1,570	3.454	46x238x175	10	Hex F 1/4"	80
CY11PR1	116511503		6÷22	53.1 - 194.7	450			1,570	3.454	46x238x175	10	Hex F 1/4"	80
CY7PR1-WP	116509083		4,5÷13	39.825-115.05	1600			1,370	3.014	46x208x175	10	Hex F 1/4"	80
CY9PR1-WP	116509084		6÷16	53.1 - 141.6	700			1,570	3.454	46x238x175	10	Hex F 1/4"	80
CY11PR1-WP	116509085		6÷22	53.1 - 194.7	450			1,570	3.454	46x238x175	10	Hex F 1/4"	80

Legend



Reversibility: the reversible models are suitable for tightening and untightening operation



Lever Start



Lever start + push to start



Push to start



Push button + push to start

- 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.
- Accessory drive: 1/4", 6,35 mm female hexagonal drive (ISO 1173)
- The code number must be used when ordering.

* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s². We therefore recommend to use Fiam air screwdrivers with a Jointech-Plus torque control system with automatic and immediate air shut-off) which have a vibration level of less than 2,5 m/s².

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.



All air screwdrivers/nutrunners are designed for use with lubricated and unlubricated compressed air

Other technical features

Models	Air inlet	Recommended hose bore
CY...	1/4" gas	Ø 8 mm

Chart of torque range obtainable with clutch springs assembled on the tool

Clutch spring	Assembled on the tool White clutch spring Ø wire 2,5 mm Code 595102502		Assembled on the tool Red spring clutch Ø wire 3,5 mm Code 595103504		Assembled on the tool Neutral spring clutch Ø wire 4 mm Code 595104002	
	Torque range on soft joint (Nm)	(in lb)	Torque range on soft joint (Nm)	(in lb)	Torque range on soft joint (Nm)	(in lb)
CY7R1; CY7R1-WP; CY7PR1; CY7PR1-WP	4,5 ÷ 13	39.825-115.05				
CY9R1; CY9R1-WP; CY9PR1; CY9PR1-WP			6 ÷ 16	53.1-141.6		
CY11R1; CY11R1-WP; CY11PR1; CY11PR1-WP					6 ÷ 22	53.1-194.7

Standard equipment (supplied with the tool)

- Clutch adjustment key
- Auxiliary grip
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

Models available upon request

- Models with quick-change chuck: add M to code number when ordering (eg: CY11PR1 → CY11PR1-M)

Air screwdrivers with slip clutch with external adjustment

Type of screwdriver	Code	Grip	Tightening torque on soft joint		Idle speed	Starting system	Reversibility	Weight		Dimensions (mm)	Air consumption	Accessories	Noise level*
			min.	max.				kg	lb				
Model	Code	Type	Nm	in lb	rpm	Type	Type	kg	lb	ØxLxH	l/s	Drive	dBA
CSE5LRE	114812945	↓	1 ÷ 5	8.85 - 44.25	2500	↑	↺	0,94	2.068	40x230	9	⬡ F 1/4"	76
CSE6LRE	114812946	↓	1,5 ÷ 6	13.275 - 53.1	1500	↑	↺	0,94	2.068	40x230	9	⬡ F 1/4"	76
CSE8LRE	114812948	↓	1,5 ÷ 8	13.275 - 70.8	1000	↑	↺	0,94	2.068	40x230	9	⬡ F 1/4"	76
CSE10LRE	114812950	↓	1,5 ÷ 10	13.275 - 88.5	500	↑	↺	0,94	2.068	40x230	9	⬡ F 1/4"	76
CSE5PRE	114812545	↙	1 ÷ 5	8.85 - 44.25	2300	↙	↺	1	2.2	36x216x154	9	⬡ F 1/4"	74
CSE6PRE	114812546	↙	1,5 ÷ 6	13.275 - 53.1	1400	↙	↺	1	2.2	36x230x154	9	⬡ F 1/4"	74
CSE8PRE	114812548	↙	1,5 ÷ 8	13.275 - 70.8	900	↙	↺	1	2.2	36x230x154	9	⬡ F 1/4"	74
CSE10PRE	114812550	↙	1,5 ÷ 10	13.275 - 88.5	450	↙	↺	1	2.2	36x230x154	9	⬡ F 1/4"	74

Legend



Reversibility: the reversible models are suitable for tightening and untightening operation



Lever start



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.
- Accessory drive: 1/4", 6,35 mm female hexagonal drive (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.

* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s². We therefore recommend to use Fiam air screwdrivers with a Jointech-Plus torque control system with automatic and immediate air shut-off) which have a vibration level of less than 2,5 m/s².



All air screwdrivers/nutrunners are designed for use with lubricated and unlubricated compressed air

Other technical features

Models	Air inlet	Recommended hose bore
CSE...LRE; CSE...PRE	1/4" gas	Ø 8 mm

Chart of torque range obtainable with clutch springs assembled on the tool or supplied with

Model	Assembled on the tool red clutch spring Wire Ø 3,5 mm Code 595103504		Supplied with light blue clutch spring Wire Ø 1,5 mm Code 595103509		Supplied with pink clutch spring Wire Ø 2 mm Code 595102006		Supplied with white clutch spring Wire Ø 2,5 mm Code 595102502	
	Tightening torque on soft joint (Nm)	Tightening torque on soft joint (in lb)	Tightening torque on soft joint (Nm)	Tightening torque on soft joint (in lb)	Tightening torque on soft joint (Nm)	Tightening torque on soft joint (in lb)	Tightening torque on soft joint (Nm)	Tightening torque on soft joint (in lb)
CSE5LRE; ...PRE	2 ÷ 5	177 - 44.25	1 ÷ 3,2	8.85 - 28.32				
CSE6LRE; ...PRE	2 ÷ 6	177 - 53.1			1,5 ÷ 4,5	13.275 - 39.825		
CSE8LRE; ...PRE	4 ÷ 8	35.4 - 70.8					1,5 ÷ 6,5	13.275 - 57.525
CSE10LRE; ...PRE	3,5 ÷ 10	30.975 - 88.5					1,5 ÷ 4,5	13.275 - 39.825

Standard equipment (supplied with the tool)

- Additional clutch spring
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

AUXILIARY GRIPS

Permits a reduction of the **torque reaction sharing rebound reaction on both hands** (ISO 11148-6)

- For CSE...P cod. 681041200
- For CY...P cod. 681041011
- For CY... cod. 681041002



BALANCING ARM BA20

For tools with **diameters from 25 to 50 mm** and with a **maximum of 20 Nm tightening torque**. Ensures very high precision work since the tool is kept perfectly perpendicular to the piece being worked. The arm with standard springs **can support up to 2 kg. weight**; to support a weight up to 2.5 kg., the standard springs must be replaced with the reinforced ones supplied with.

Cod. 692031009



BALANCING ARM BA50

For tools with **diameters from 25 to 50 mm** and with a maximum of 50 Nm tightening torque.

Guarantees **working precision** because the tool is kept perfectly perpendicular to the piece being assembled. **Can support from 0,7 to 2kg weight**.

Cod. 692031008



BT TELESCOPIC REACTION ARMS IN CARBON FIBRE

For **every type of tool** is **extremely resistant to any Mechanical**. Equipped with **3 telescopic elements** and **double terminal coupling** to guarantee high handiness and manoeuvrability. They can be **easily installed** on existing workplaces on ceiling or wall using a simple plate with reduced dimensions.

To choose the right model see Accessories for ergonomic workplace's catalogue – nr. 79.



BC CARTESIAN ARMS

For **every type of tool** with diameter up to 50 mm and weight up to 7 Kg thanks to universal clamp.

- they eliminate any counterblow action on the operators hands;
- they eliminate the need for force in holding the tool;
- they drastically reduce or eliminate vibrations;
- they allow the maintenance of a good wrist position.

To choose the right model see Accessories for ergonomic workplace's catalogue – nr. 79.



- Bits, hexagonal sockets, ecc. balancers, exhaust silencers and other compressed air system accessories: see Accessories catalogue nr. 78