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.

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 cluch adjustment avoiding long operation of internal adjustment of the tool, as for the other types of screwdrivers/nutrunners.

AS...R models

CY...R models

CSE...RE models

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

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

Don't be satisfied with the maximum

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

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

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

For onerous applications in according to EN 792-6 standard and especially when the torques are higher than 4Nm (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.

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

Model	Code	Grip Type	Tightening torque on soft joint Nm min.	Tightening torque on soft joint Nm max.	Tightening torque on soft joint in lb min.	Tightening torque on soft joint in lb max.	Idle speed rpm	Starting system Type	Reversibility Type	Weight kg	Weight lb	Dimensions (mm) Øxlxh	Air consumption l/s	Accessories Drive	Noise level* dBA	Vibrations m/s²
CZ2R	112511902		0,8	2,5	7.08	22.125	2800			0,460	1.012	32x204	5	F 1/4"	74	*
CZ3R	112511903		0,8	3	7.08	26.55	1300			0,490	1.078	32x216	5	F 1/4"	74	*
CZ4R	112511904		0,8	3,3	7.08	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	7.08	22.125	2800			0,460	1.012	32x204	5	F 1/4"	74	*
CZ3R-WP	112509227		0,8	3	7.08	26.55	1300			0,490	1.078	32x216	5	F 1/4"	74	*
CZ4R-WP	112509237		0,8	3,3	7.08	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	7.08	22.125	2800			0,460	1.012	32x192	5	F 1/4"	74	*
SCZ3R	112511303		0,8	3	7.08	26.55	1300			0,490	1.078	32x204	5	F 1/4"	74	*
SCZ4R	112511304		0,8	3,3	7.08	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	7.08	22.125	2700			0,660	1.452	27x190x140	5	F 1/4"	73	*
CZ3PR1	112511503		0,8	3,5	7.08	30.975	1350			0,700	1.54	27x202x140	5	F 1/4"	73	*
CZ4PR1	112511504		0,8	3,8	7.08	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	7.08	22.125	2700			0,660	1.452	27x190x140	5	F 1/4"	73	*
CZ3PR1-WP	112509351		0,8	3,5	7.08	30.975	1350			0,700	1.54	27x202x140	5	F 1/4"	73	*
CZ4PR1-WP	112509511		0,8	3,8	7.08	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	30°	0,8	2,3	7.08	20.355	2800			0,630	1.386	32x190x28,5	5	M 1/4"	74	*
AZ3R30	112531913	30°	0,8	2,9	7.08	25.665	1300			0,660	1.452	32x202x140	5	M 1/4"	74	*
AZ4R30	112531914	30°	0,9	3,2	7.965	28.32	900			0,660	1.452	32x202x240	5	M 1/4"	74	*
AZ5R30	112531915	30°	1	4	8.85	35.4	600			0,660	1.452	32x202x140	5	M 1/4"	74	*
AZ2R90	112591912	90°	0,8	2,3	7.08	20.355	2800			0,630	1.386	32x202x140	5	M 1/4"	74	*
AZ3R90	112591913	90°	0,8	2,9	7.08	25.665	1300			0,660	1.452	32x202x140	5	M 1/4"	74	*
AZ4R90	112591914	90°	0,9	3,2	7.965	28.32	900			0,660	1.452	32x202x140	5	M 1/4"	74	*
AZ5R90	112591915	90°	1	4	8.85	35.4	600			0,660	1.452	32x202x140	5	M 1/4"	74	*

Legend

Reversibility: the reversible models are suitable for tightening und 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 accordante with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7.
- 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

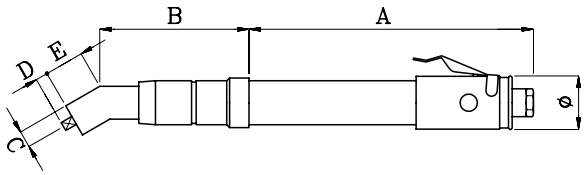
Accessories available upon request

- Bits, hexagonal sockets, ecc. balancers, exhaust silencers and other compressed air system accessories: see Accessories catalogue nr. 78
- Auxiliary grip
- Swinging arm stand to facilitate tightening operations: BA15 models, BC25/… cartesian arms and BC25/4 'selfworker' cartesian arm with air thrust device (see 'Accessories for ergonomic workplace' catalogue n. 79)
- To obtain inferior torque in respect to the minimal torque values indicated on the catalogue, it is available the neutral clucth spring (see chart above)

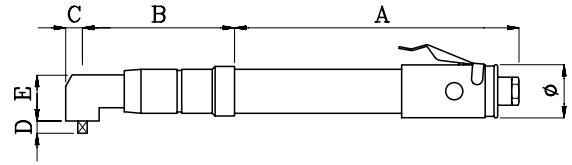
Models available upon request

- 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 screwdrievrs with slip clutch - CSE...R and AS...R models

Model	Code	Type of screwdriver/ nutrunner	Grip	Tightening torque on soft joint min. Nm	Tightening torque on soft joint max. Nm	Tightening torque on soft joint min. in lb	Tightening torque on soft joint max. in lb	Idle speed rpm	Starting system Type	Reversibility Type	Weight kg	Weight lb	Dimensions (mm) Øxlxh	Air consumption l/s	Accessories Drive	Noise level* dBA	Vibrations m/s²
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	40x287,5	9	M 3/8"	78	*
AS6R	114891916		90°	2	15	17.7	132.75	700			1,250	2.75	40x324	9	M 3/8"	78	*
AS8R	114891918		90°	2,5	19	22.125	168.15	300			1,250	2.75	40x324	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 accordante with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7.
- 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
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 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)

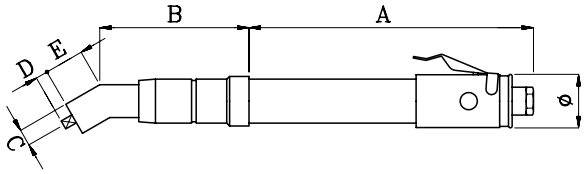
Accessories available upon request

- Bits, hexagonal sockets, ecc. balancers, exhaust silencers and other compressed air system accessories: see Accessories catalogue nr. 78
- Auxiliary grip
- Swinging arm stand to facilitate tightening opeerations: BA15 models, BC25/… cartesian arms and BC25/4 'selfworker' cartesian arm with air thrust device (see 'Accessories for ergonomic workplaces' catalogue n. 79)


BC25


BA15

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

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

Model	Code	Grip Type	Tightening torque on soft joint Nm min.	Tightening torque on soft joint Nm max.	Tightening torque on soft joint in lb min.	Tightening torque on soft joint in lb max.	Idle speed rpm	Starting system Type	Reversibility Type	Weight kg	Weight lb	Dimensions (mm) Øxlxh	Air consumption l/s	Accessories Drive	Noise level* dBA	Vibrations m/s²
CY7R1	116511901		4,5	13	39.825	115.05	1600			1,100	2.42	46x285	10	F 1/4"	80	*
CY9R1	116511902		6	16	53.1	141.6	700			1,300	2.86	46x315	10	F 1/4"	80	*
CY11R1	116511903		6	22	53.1	194.7	450			1,300	2.86	46x315	10	F 1/4"	80	*
CY7R1-WP	116509113		4,5	13	39.825	115.05	1600			1,100	2.42	46x285	10	F 1/4"	80	*
CY9R1-WP	116509114		6	16	53.1	141.6	700			1,300	2.86	46x315	10	F 1/4"	80	*
CY11R1-WP	116509115		6	22	53.1	194.7	450			1,300	2.86	46x315	10	F 1/4"	80	*
CY7PR1	116511501		4,5	13	39.825	115.05	1600			1,370	3.014	46x208x175	10	F 1/4"	80	*
CY9PR1	116511502		6	16	53.1	141.6	700			1,570	3.454	46x238x175	10	F 1/4"	80	*
CY11PR1	116511503		6	22	53.1	194.7	450			1,570	3.454	46x238x175	10	F 1/4"	80	*
CY7PR1-WP	116509083		4,5	13	39.825	115.05	1600			1,370	3.014	46x208x175	10	F 1/4"	80	*
CY9PR1-WP	116509084		6	16	53.1	141.6	700			1,570	3.454	46x238x175	10	F 1/4"	80	*
CY11PR1-WP	116509085		6	22	53.1	194.7	450			1,570	3.454	46x238x175	10	F 1/4"	80	*

Legend

Reversibility: the reversible models are suitable for tightening und 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 accordante with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7.
- 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

Model	*Clutch spring* — *Assembled on the tool* White clutch spring Ø wire 2,5 mm Code 595102502 — Torque range on soft joint (Nm)	(in lb)	*Assembled on the tool* Red spring clutch Ø wire 3,5 mm Code 595103504 — Torque range on soft joint (Nm)	(in lb)	*Assembled on the tool* Neutral spring clutch Ø wire 4 mm Code 595104002 — 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

Accessories available upon request

- Bits, sockets etc.; balancers, exhaust silencers and other compressed air system accessories (cat. 78)
- Swinging arm stand to facilitate tightening operations: BA15 models, BC25/… cartesian arms and BC25/4 'selfworker' cartesian arm with air thrust device (see 'Accessories for ergonomic workplaces' catalogue n. 79)

Models available upon request

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

Air screwdrivers with slip clucth with external adjustment

Model	Code	Type of screwdriver	Grip	Tightening torque on soft joint min. Nm	Tightening torque on soft joint max. Nm	Tightening torque on soft joint min. in lb	Tightening torque on soft joint max. in lb	Idle speed rpm	Starting system Type	Reversibility Type	Weight kg	Weight lb	Dimensions (mm) Øxlxh	Air consumption l/s	Accessories Drive	Noise level* dBA	Vibrations m/s²
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 und 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 accordante with ISO 5393 standard.
- Noise level has been measured in accordance with ISO 3744 and ISO 15744 standards.
- Vibrations level have been measured in accordance with ISO 8662-1 and ISO 8662-7.
- 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	Clutch spring: Assembled on the tool red clutch spring Wire Ø 3,5 mm Code 595103504 — Tightening torque on soft joint (Nm)	(in lb)	Supplied with light blue clutch spring Wire Ø 1,5 mm Code 595103509 — Tightening torque on soft joint (Nm)	(in lb)	Supplied with pink clutch spring Wire Ø 2 mm Code 595102006 — Tightening torque on soft joint (Nm)	(in lb)	Supplied with white clutch spring Wire Ø 2,5 mm Code 595102502 — Tightening torque on soft joint (Nm)	(in lb)
CSE5LRE; ...PRE	2 ÷ 5	17.7 - 44.25	1÷ 3,2	8.85 - 28.32				
CSE6LRE; ...PRE	2 ÷ 6	17.7 - 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

Accessories available upon request

- Bits, sockets etc.; balancers, exhaust silencers and other compressed air system accessories (cat. 78)
- Auxiliary grip
- Swinging arm stand to facilitate tightening operations: BA15 models, BC25/… cartesian arms and BC25/4 'selfworker' cartesian arm with air thrust device (see 'Accessories for ergonomic workplace' catalogue n. 79)

PEOPLE AND SOLUTIONS

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 Management System Certificate

Environmental Management System Certificate