



**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**<sup>®</sup>  
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.

Torque values refer to analysis of laboratory performing tests that comply with the standard ISO 5393 with screwdriver set at to the maximum speed and should be considered as indicative. The values in real applications can be influenced by many factors such as, for example: joint (type of joint, degree of elasticity), screw (type and length), accessory used (type or length of the blade), tightening speed, assembly conditions (free standing screwdriver, screwdriver mounted on a torque arm), operator behavior during the tightening phase. For any further details, please address to Fiam Technical Service.

\* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s<sup>2</sup>. 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/s<sup>2</sup>.



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<br>Brown clutch spring<br>Ø wire 1,6 mm<br>Cod 595201600 |              | Upon request<br>Neutral clutch spring<br>Ø wire 1,2 mm<br>Code 595201203 |                | Supplied with<br>Pink clutch spring<br>Ø wire 2,0 mm<br>Code 595202000 |                | Supplied with<br>Silver clutch spring<br>Ø wire 2,1 mm<br>Code 595202100 |               | Supplied with<br>Gold clutch spring<br>Ø wire 2,2 mm<br>Code 595202200 |              |
|----------------------|--|--------------|--|----------------|--|----------------|--|---------------|--|--------------|
| Model                | Torque range on soft joint<br>(Nm)   |              | Torque range on soft joint<br>(in lb)                                    |                | Torque range on soft joint<br>(Nm)                                     |                | Torque range on soft joint<br>(in lb)                                    |               | Torque range on soft joint<br>(Nm)                                     |              |
| CZ2R; CZ2R-WP; SCZ2R | 0,8 ÷ 2,5  | 708 - 22.125 | 0,3 ÷ 1,5  | 2.655 - 13.275 |  |                |  |               |  |              |
| CZ3R; CZ3R-WP; SCZ3R | 0,8 ÷ 2,2  | 708 - 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  | 708 - 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  | 708 - 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  | 708 - 22.125 | 0,3 ÷ 1,5  | 2.655 - 13.275 |  |                |  |               |  |              |
| CZ3PR1; CZ3PR1-WP    | 0,8 ÷ 2,4  | 708 - 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  | 708 - 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 - 177   | 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

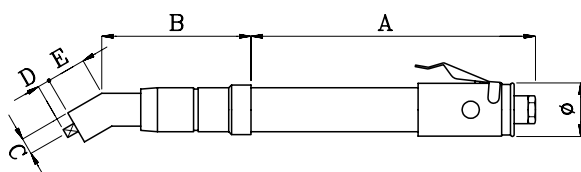
### Accessories available upon request

- Bits, sockets and other accessories (see catalogue nr. 78)
- Couplings, hoses, filters, governors and other compressed air system accessories (see catalogue nr. 77)
- Auxiliary grip, balancing arms, cartesian arms and magnesium telescopic arms (see catalogue nr. 79)

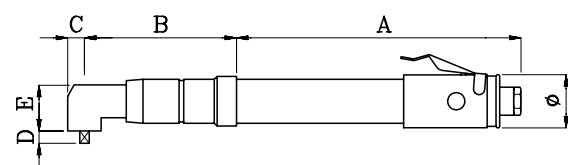
### Models available upon request

- 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.

Torque values refer to analysis of laboratory performing tests that comply with the standard ISO 5393 with screwdriver set at to the maximum speed and should be considered as indicative. The values in real applications can be influenced by many factors such as, for example: joint (type of joint, degree of elasticity), screw (type and length), accessory used (type or length of the blade), tightening speed, assembly conditions (free standing screwdriver, screwdriver mounted on a torque arm), operator behavior during the tightening phase. For any further details, please address to Fiam Technical Service.

\* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s<sup>2</sup>. 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/s<sup>2</sup>.



**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<br>White clutch spring<br>Ø wire 2,5 mm<br>Code 595102502 |                 | Supplied with<br>Light blue clutch spring<br>Ø wire 1,5 mm<br>Code 595101509 |              | Supplied with<br>Pink clutch spring<br>Ø wire 2,0 mm<br>Code 595102006 |                 | Supplied with<br>Red clutch spring<br>Ø wire 3,5 mm<br>Code 595103504 |               |
|---------------------------|---|-----------------|--|--------------|--|-----------------|---|---------------|
| Model                     | Torque range on soft joint<br>(Nm) (in lb)                                      |                 | Torque range on soft joint<br>(Nm) (in lb)                                   |              | Torque range on soft joint<br>(Nm) (in lb)                             |                 | Torque range on soft joint<br>(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)

## Accessories available upon request

- Bits, sockets and other accessories (see catalogue nr. 78)
- Couplings, hoses, filters, governors and other compressed air system accessories (see catalogue nr. 77)
- Auxiliary grip, balancing arms, cartesian arms and magnesium telescopic arms (see catalogue nr. 79)



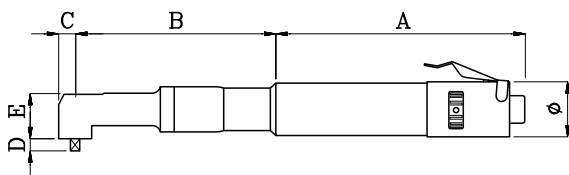
Balancing arm



BT-MG

| Model         | Code      | Max torque<br>(Nm) in lb |         | Max work<br>range (mm) | Min work<br>range (mm) | Ø max<br>tool (mm) |
|---------------|-----------|--------------------------|---------|------------------------|------------------------|--------------------|
| BT-MG 15 800  | 692071409 | 15                       | 132.70  | 860                    | 505                    | 26.5-46            |
| BT-MG 15 1000 | 692071401 | 15                       | 132..70 | 1070                   | 575                    | 26.5-46            |
| BT-MG 15 1500 | 692071404 | 15                       | 132.70  | 1580                   | 745                    | 26.5-46            |
| BT-MG 40 800  | 692071410 | 40                       | 354     | 860                    | 505                    | 26.5-46            |
| BT-MG 40 1000 | 692071402 | 40                       | 354     | 1070                   | 575                    | 26.5-46            |
| BT-MG 40 1500 | 692071405 | 40                       | 354     | 1580                   | 745                    | 26.5-46            |
| BT-MG 40 2000 | 692071407 | 40                       | 354     | 2120                   | 925                    | 26.5-46            |
| BT-MG 70 800  | 692071411 | 70                       | 619.50  | 860                    | 505                    | 34-50              |
| BT-MG 70 1000 | 692071403 | 70                       | 619.50  | 1070                   | 575                    | 34-50              |
| BT-MG 70 1500 | 692071406 | 70                       | 619.50  | 1580                   | 745                    | 34-50              |
| BT-MG 70 2000 | 692071408 | 70                       | 619.50  | 2120                   | 925                    | 34-50              |

## 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 | 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           |
| 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 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.

Torque values refer to analysis of laboratory performing tests that comply with the standard ISO 5393 with screwdriver set at to the maximum speed and should be considered as indicative.

The values in real applications can be influenced by many factors such as, for example: joint (type of joint, degree of elasticity), screw (type and length), accessory used (type or length of the blade), tightening speed, assembly conditions (free standing screwdriver, screwdriver mounted on a torque arm), operator behavior during the tightening phase. For any further details, please address to Fiam Technical Service.

\* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s<sup>2</sup>. 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/s<sup>2</sup>.



**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<br>White clutch spring<br>Ø wire 2,5 mm<br>Code 595102502 |               | Assembled on the tool<br>Red spring clutch<br>Ø wire 3,5 mm<br>Code 595103504 |            | Assembled on the tool<br>Neutral spring clutch<br>Ø wire 4 mm<br>Code 595104002 |            |
|--|---|---------------|---|------------|---|------------|
| Model                                  | Torque range on soft joint<br>(Nm) (in lb)                                      |               | Torque range on soft joint<br>(Nm) (in lb)                                    |            | Torque range on soft joint<br>(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 and other accessories (see catalogue nr. 78)
- Couplings, hoses, filters, governors and other compressed air system accessories (see catalogue nr. 77)
- Auxiliary grip, balancing arms, cartesian arms and magnesium telescopic arms (see catalogue nr. 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 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.

Torque values refer to analysis of laboratory performing tests that comply with the standard ISO 5393 with screwdriver set at to the maximum speed and should be considered as indicative.

The values in real applications can be influenced by many factors such as, for example: joint (type of joint, degree of elasticity), screw (type and length), accessory used (type or length of the blade), tightening speed, assembly conditions (free standing screwdriver, screwdriver mounted on a torque arm), operator behavior during the tightening phase. For any further details, please address to Fiam Technical Service.

\* Any air screwdrivers which uses a "slip clutch" torque control (and similar) generates vibrations over 2,5 m/s<sup>2</sup>. 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/s<sup>2</sup>.

 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 |              | 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) (in lb) |               | Tightening torque on soft joint (Nm) (in lb)                         |              | Tightening torque on soft joint (Nm) (in lb)                        |  | Tightening torque on soft joint (Nm) (in lb)                |                 | Tightening torque on soft joint (Nm) (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

### Accessories available upon request

- Bits, sockets and other accessories (see catalogue nr. 78)
- Couplings, hoses, filters, governors and other compressed air system accessories (see catalogue nr. 77)
- Auxiliary grip, balancing arms, cartesian arms and magnesium telescopic arms (see catalogue nr. 79)



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