



Easy tightening
Fast tightening

**IM Mechanical Air
Impact Wrenches**

- Torque range: from 30 to 2180 Nm

Fiam®
PEOPLE AND SOLUTIONS

IM Mechanical Air Impact Wrenches

Fiam Mechanical Impact wrenches: speed, power and comfort guaranteed

The main qualities of the Fiam Mechanical Impact wrenches lie in the high torque values, in relation to the light weight of the tool, and the impressive working speed.

Thus they can be used to **easily and quickly tighten and unscrew large screws, nuts and bolts**, even badly rusted ones, without any torque reaction on the operator's hand.

Particularly **suited to many fields - from building and road construction to shipbuilding, railway construction, chemical plants, structural work, farm machinery and earthmoving equipment** - Fiam Mechanical Impact wrenches also find wide use in **assembly, disassembly and maintenance departments** in all kinds of industrial manufacturing sectors.



IM350P

CSI12



Be demanding

Reliability

A careful design guarantees long lifetime and reliability of the components which results in high productive process, less maintenance and repair costs

Important technological innovations make these solutions extremely long lasting: more specifically, the **impact mechanism is lubricated with grease**, ensuring **reduced wear of internal components** for a longer tool lifespan



Don't be satisfied
with the maximum

Perfection
is in your hands

Naturally innovative

Productivity Ergonomics Ecology

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

Being extremely versatile, **all models can be used to cover a wide range of torques**, whose value can be varied by simply adjusting the air feed pressure

The IM70P model is characterized by a double-hammer cam lift system that delivers a single impact per cycle on both anvils, resulting in high torque values and low vibration levels

By using two identical hammers, the **twin-hammer impact** device (model IM350P) produces a double impact for each cycle on both sides of the shaft allowing to obtain an immediate and balanced mechanical impulse, transferring the maximum torque to the tap holder shaft and enhancing vibrations absorption

The IM780P, IM1100P, and IM2100P models are characterized by a **triple-hammer cam lift system** that delivers a single impact per cycle on all 3 anvils, ensuring high torque values and low vibration levels

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

The **impact mechanism lubricated with grease** ensures excellent operational silence

Each model is equipped with a **hanging device** to **completely eliminate operator fatigue** in holding the tool

The **silencing system** makes these wrenches extremely quiet; they are also equipped with a controlled discharge of exhaust air

On the CSI12P1 wrenches, the control top features a special device for the **controlled discharge of exhaust air**, and also allows you to **convey exhaust air** so as not to disturb the operator during the tightening operations

All models also feature a **handy, easy-action start button** to reduce strain on the operator's finger

Weight is surprisingly light compared to the power delivered

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

The design technology of the air motors ensures a **reduction of compressed air** without compromising tool performances

The design of the inner kinematic motions **optimizes the output of the available power**, which is being transmitted with minimum dispersions

All the components are easy to dispose of because they are **built using recyclable materials**; therefore they don't represent a pollution risk

All products are supplied with **eco-friendly packaging**



IM70P



CSI12P1

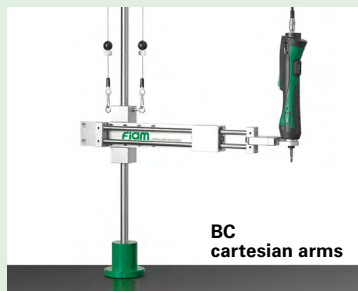
More ergonomics, more productivity

Fiam screwdrivers can be used with **BT-MG Magnesium telescopic arms** and **BC/BCA cartesian arms**, especially when **high torques are applied**. They reduce significantly the operator's effort, since:

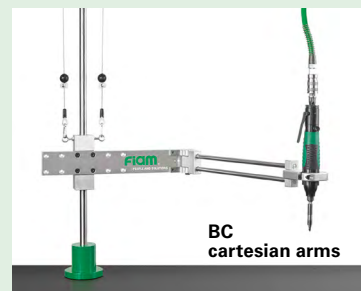
- they eliminate any counter reaction on the hand;
- thanks to balancer used the operator does not need to lift the tool;
- vibrations are reduced or eliminated;
- arms allow keeping a good wrist position.































BT-MG telescopic reaction arm in magnesium



BC cartesian arms




BC cartesian arms

| Type of screwdriver | | Grip | Recommended tightening torque | | | | Idle speed | Starting system | Reversibility | Weight | | Dimensions (mm) | Idle air consumption | Accessories | Max tightening torque expressed | Bolt range |
|---------------------|-----------|---|-------------------------------|----|----------------|-------|------------|---|---|--------|------|-----------------|----------------------|--|---------------------------------|------------|
| Model | Code | Type | Nm | Nm | in lb | in lb | r.p.m. | Type | Type | kg | lb | ØxLxh | l/s | Drive | Nm | |
| CSI12 | 114820112 |  | 30 ÷ 40 | | 265.5 ÷ 354 | | 2200 |  |  | 0,98 | 2,16 | 40x240 | 6 |  3/8" | 40 | - |
| CSI12P1 | 114820522 |  | 25 ÷ 40 | | 221.2 ÷ 354 | | 1900 |  |  | 1,19 | 2,62 | 40x230x155 | 6 |  3/8" | 40 | - |
| IM70P | 119520610 |  | 30 ÷ 70 | | 265.5 ÷ 619,5 | | 7200 |  |  | 1,40 | 3,08 | 50x146 | |  3/8" | 120 | M5-M10 |
| IM350P | 119520643 |  | 108 ÷ 350 | | 955,8 ÷ 3097,5 | | 5600 |  |  | 2,47 | 5,44 | 65x175 | |  1/2" | 650 | M10-M16 |
| IM780P | 119520651 |  | 210 ÷ 780 | | 1858,5 ÷ 6903 | | 5600 |  |  | 2,52 | 5,55 | 86x191 | |  3/4" | 1000 | M12-M24 |
| IM1100P | 119520662 |  | 350 ÷ 1100 | | 3097,5 ÷ 9735 | | 5400 |  |  | 4,20 | 9,25 | 96x221 | |  3/4" | 1700 | M14-M24 |
| IM2100P | 119520680 |  | 700 ÷ 2180 | | 6195 ÷ 19293 | | 3100 |  |  | 5,95 | 13,1 | 115x271 | |  1" | 3100 | M18-M39 |


Legend

IM = Mechanical Air Impact Wrench • 70 = Maximum tightening torque in Nm • P = Pistol grip

Legend

 **Reversibility:** all 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.
- Accessory drive: male square 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 Advice service.

The operator exposed to a noise levels must use the personal safety devices (earmuffs, ear plugs, etc), to safeguard himself against inherent risks.

Other technical features

| Recommended model | Air inlet | Recommended hose bore |
|-------------------|-----------|-----------------------|
| CSI...IM70P, 350P | 1/4" gas | Ø 8 mm |
| IM780P | 3/8" gas | Ø 13 mm |
| IM1100P | 1/2" gas | Ø 13 mm |
| IM2100P | 1/2" gas | Ø 16 mm |

Standard equipment (supplied with the tool)

- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging
- IM models are supplied with:
 - Specific grease for maintenance
 - Oil for lubricating

Accessories available upon request

- Bits, sockets etc.; balancers, exhaust silencers and other compressed air system accessories: see Fiam Accessories catalogue
- The flow regulator is available upon request.

Filter/Regulator/Lubricator

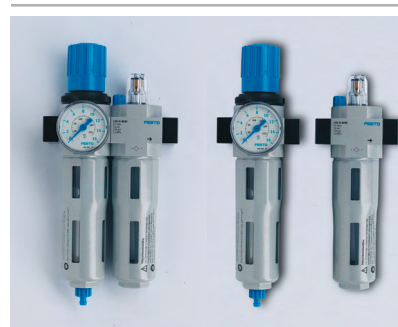
- Filter, pressure regulator, oil fog lubricator. Suitable to obtain the required torque value by adjusting the air feed pressure. Less pressure = less tightening torque.

| Threaded attack | Flow rate | Complete assembly | Reduction compl. of gauge | Lubricator |
|-----------------|-----------|-------------------|---------------------------|------------|
| mm | l/s | code | code | code |
| 1/4" gas | 1,7 ÷ 16 | 697331020 | 697331025 | 697281020 |
| 3/8" gas | 4,2 ÷ 20 | 697351020 | 697351025 | 697291020 |
| 1/2" gas | 8 ÷ 43 | 697371020 | 697371025 | 697301020 |

Models available upon request

- Models for torque ranges above those given in the chart
- Models with output shaft other than that given in the chart

For further information, contact the Fiam Technical Consultancy Service



www.fiamgroup.com

info@fiamgroup.com

Meet us on:



Fiam
PEOPLE AND SOLUTIONS

Fiam Utensili Pneumatici Spa
Viale Crispi 123
36100 Vicenza, Italy
Tel. +39.0444.385000
Fax +39.0444.385002

Fiam France Succursale
73, cours Albert Thomas
69003 Lyon, France
Tel. +33 (0)9 70 40 73 85

Fiam España Sucursal
Travessera de Gràcia, 11, 5ª planta
08021 Barcelona, España
Tel. +34.636808112

Fiam Deutschland Niederlassung
Kupferstrasse 5
70565 Stuttgart, Deutschland
Tel. +49.151 46328927

Quality Management System Certificate • Environmental Management System Certificate