

**Easy,
fast and accurate
tightening**



IHE oil pulse wrenches

- Torque range: from 10 up to 230 Nm
- Models with and without automatic air shut-off

Fiam®
PEOPLE AND SOLUTIONS

New IHE oil pulse wrenches

Powerful, fast, accurate.

A wide range of oil pulse wrenches, ideal to tighten **screws, nuts and bolts** with highest speed, easiness and comfort. 28 new wrenches, including 14 models with **automatic air shut-off torque control system**, allow:

- **Achieving tightening torque** with maximum operator's comfort
- **Target torques** are achieved in **very short times**
- **Accurate tightenings both on hard and soft joints irrespective of the operator**
- **Reduced compressed air consumption**



IHE90PA



IHE35P

Be demanding

Reliability

Long lifetime of the components also in case of high production rhythms thanks to careful design, guarantee less maintenance and reduced repair costs

The **dual-chamber motor** with 9 vanes permits a considerable **reduction of the weights, ensuring a high power**. It is made of steel with **high quality thermal treatment** to guarantee reliability and long life

The oil pulse unit features special rollers minimizing **generated friction** for **longer life** and **higher tool power**

The pulse unit features a new accumulator which allows **oil volume expansion thus keeping oil at a stable temperature** (lowering oil overheating). This translates into **reduced number of oil replacements** and **longer lifespan oil pulse unit**

"X" shaped gaskets are used into the oil pulse unit: thanks to their geometry they **create two contact points on the output drive reducing possible leakage and increasing oil pulse unit lifetime**

Motor housing innovative geometries – cylinder and monobloc plate – make it **more powerful and reliable**

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 design systems

Wide torque range: from 10 up to 230 Nm to cover all possible assembly needs

The motor guarantees **high performances on the various joints** as well as **high tightening torques** obtainable in very short times

Models with automatic air shut-off torque control system allow accurate tightenings in short times, irrespective of the operator

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

All models feature a **comfortable reverse button** to favour the operator in tightening operations

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

Innovative systems designed paying the highest attention to the environment and its safeguard

All the components are **easy to dispose of** because they are built **using recyclable materials**; therefore they do not represent any danger in terms of environmental pollution

Models with automatic air shut-off **reduce** the cycle time and therefore the **compressed air consumption**



IHE18A-MR

The special **rubber-covered grip** isolates the operator's hand from cold and vibrations, making it safer for him to hold the wrench

The **reaction to the operator's wrist** is **reduced**, also at high torques

Special rubber protective covers are available **upon request** for pistol tools to safeguard them and workpieces from accidental contact and guarantee longer lifetime.



Models with pneumatic pick-up signal (ported) for screw counting (poka yoke system) available upon request



	Type of wrench	Code	Grip	Tightening torque on hard joint		Idle speed	Starting system	Reversibility	Weight	Dimensions (mm)	Air consumption	Accessory		
	Model			Type	Nm								in lb	rpm
Models with automatic air shut-off torque control system	IHE18PA-MR	119550000		10 ÷ 18	88.5÷159.3	4400			0,92	2.0	46x170x168	4,2		1/4"
	IHE25PA-MR	119550014		14 ÷ 26	123.9÷230.1	7200			0,92	2.0	46x170x168	5,8		1/4"
	IHE25PA	119550002		15 ÷ 27	132.6÷239	7200			0,92	2.0	46x167x168	5,8		3/8"
	IHE35PA	119550004		22 ÷ 35	194.7÷309.8	6200			1	2.2	46x178x168	6,7		3/8"
	IHE55PA	119550006		37 ÷ 57	327.5÷504.5	7200			1,35	3.0	53,5x194x192	7,5		3/8"
	IHE90PA	119550008		64 ÷ 90	566.4÷796.5	5400			1,55	3.4	53,5x200x192	8,3		1/2"
	IHE120PA	119550010		85 ÷ 120	752.3÷1062	5300			1,85	4.1	59x209x195	9,2		1/2"
	IHE145PA	119550016		120 ÷ 148	1062÷1309.8	3600			2,26	5.0	64x216x204	12,2		1/2"
	IHE210PA	119550012		145 ÷ 210	1283.3÷1858.5	3700			3,10	6.8	72x239x215	12,2		3/4"
	IHE230PA	119550018		180 ÷ 230	1593 - 2035.5	2700			3,80	8.4	78x263x232	12,2		3/4"
	IHE18A-MR	119550020		10 ÷ 18	88.5÷159.3	4200			0,80	1.8	46x224	4,2		1/4"
	IHE25A-MR	119550031		15 ÷ 25	132.6÷221.3	6800			0,80	1.8	46x224	5,3		1/4"
	IHE35A	119550022		22 ÷ 35	194.7÷309.8	7200			0,86	1.9	46x231	6,7		3/8"
	IHE45A	119550024		31 ÷ 47	274.4÷416	5000			0,97	2.1	46x242	6,7		3/8"
IHE18P-MR	119550001		10 ÷ 18	88.5÷159.3	4400			0,90	2.0	46x170x168	4,2		1/4"	
IHE25P-MR	119550015		14 ÷ 26	123.9÷230.1	7200			0,90	2.0	46x170x168	5,8		1/4"	
IHE25P	119550003		15 ÷ 27	132.6÷239	7200			0,90	2.0	46x167x168	5,8		3/8"	
IHE35P	119550005		22 ÷ 35	194.7÷309.8	6200			0,97	2.1	46x178x168	6,7		3/8"	
IHE55P	119550007		37 ÷ 57	327.5÷504.5	7200			1,33	2.9	53,5x194x192	7,5		3/8"	
IHE90P	119550009		64 ÷ 90	566.4÷796.5	5400			1,53	3.4	53,5x200x192	8,3		1/2"	
IHE120P	119550011		85 ÷ 120	752.3÷1062	5300			1,85	4.1	59x209x195	9,2		1/2"	
IHE145P	119550017		120 ÷ 148	1062÷1309.8	3600			2,22	4.9	64x216x204	12,2		1/2"	
IHE210P	119550013		145 ÷ 210	1283.3÷1858.5	3700			3,10	6.8	72x239x215	12,2		3/4"	
IHE230P	119550019		180 ÷ 230	1593 - 2035.5	2700			3,10	6.8	78x263x232	12,2		3/4"	
IHE18-MR	119550021		10 ÷ 18	88.5÷159.3	4200			0,80	1.8	46x224	4,2		1/4"	
IHE25-MR	119550030		15 ÷ 25	132.6÷221.3	6800			0,80	1.8	46x224	5,3		1/4"	
IHE35	119550023		22 ÷ 35	194.7÷309.8	7200			0,86	1.9	46x231	6,7		3/8"	
IHE45	119550025		31 ÷ 47	274.4÷416	5000			0,97	2.1	46x242	6,7		3/8"	

Legend: IHE = Oil pulse wrench • 18 = Max torque in Nm • P = Pistol grip • A = Air shut-off • MR = Quick change-chuck

Legend

Reversibility: all models are suitable for tightening and untightening operation

Push button **Lever start**

- 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).
- MR = quick change-chuck; female hexagonal drive 1/4", 6,35 mm (ISO 1173).
- The code number must be used when ordering.
- Consumptions: They are reduced approximately of 30-35% in standard working conditions with tool under load.

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

The data given in the table are indicative and can be changed without prior notice. The torque values are purely indicative and may be influenced by the softness of the type of joint, by the type and length of the screw, by the pressure and quantity of air supply, and by the type of accessory used. The values indicated for noise and vibration levels were obtained in the laboratory, performing tests that comply with the standards stated, but alone are not sufficient for calculating risks. Values measured in the single work places may be higher than those stated. The values of actual exposure and consequent risks are specific and depend on the operator's method of work, the type of work piece and the work place, as well as the operator's time of exposure and his physical conditions. Fiam cannot be held responsible for any consequences deriving from the use of the information in the table when evaluating risks in the work place over which Fiam has no control. For all further details, please apply to the Fiam Technical Consultancy Service.

Other technical features

Model	Air inlet	Recommended hose bore
IHE 18, 25, 35, 45, 55	1/4" gas	Ø 10 mm
IHE 90, 120, 145, 210, 230	1/4" gas	Ø 12 mm

Models with pneumatic pick-up signal (ported) for screw counting (poka yoke system) available upon request

Standard equipment (supplied with the tool)

- Adjustment key
- Hanging ring
- Use and maintenance manual
- Eco-friendly packaging

Accessories available upon request

- Rubber protective covers available for pistol wrenches to safeguard them and workpieces from accidental contact and guarantee longer lifetime.

Other accessories

- Bits, sockets etc.; balancers, exhaust silencers and other compressed air system accessories: see **Fiam Accessories catalogue**.
- Specific oil for oil pulse unit: 1 lt., cod. 699011013; 100 cc, cod. 699011012

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.

Rubber protective cover	Code	For wrenches
	681120700	IHE18-25P/PA
	681120701	IHE35P/PA
	681120702	IHE55P/PA
	681120703	IHE90P/PA
	681120704	IHE120P/PA
	681120705	IHE145P/PA
	681120706	IHE210P/PA
	681120707	IHE230P/PA



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Quality Management System Certificate



Environmental Management System Certificate