

Air tappers

- Tapping capacity: from Ø 6 to 18 mm (on mild steel)
- Type of grip: straight and pistol models



Air tappers

Fiam tappers: quickness and efficacy in every work situation

Air tappers are the best solution for manual machine tapping, being fast to use and easy to handle, even when high quality standards are required.

Fiam tappers **combine an excellent power to weight ratio** with tremendous **ease of handling** and **versatility**, making them the **perfect answer to every work situation**; they are also ideal when **threaded inserts or stud bolts are used in assembly** (for example in the furniture industry or the automotive sector generally).

Fiam's range offers a choice of tappers all of which are reversible and available with straight or pistol grip.



Choosing the right tapper

The main technical parameters to consider **are the diameter of the tap being used and the material on which one is working**. The table shows the maximum capacities of the different Fiam models available in relation to the material concerned.

	Material being tapped				
Model	Compound Cast iron an steel mild steel		Alluminium - Bronze-Brass		
	Ø max thread mm	Ø max thread mm	Ø max thread mm		
MAS6	4	6	10		
MAS8	6	8	12		
MAY10	8	10	13		
MAY12	10	12	14		
MAO16	-	16	20		
MAO18	-	18	22		

According to the different work situations one can choose one of the solutions described below; these tools are fitted with a **quick-change chuck** which makes it easy to change the holder.

Every tap size required should be used with the corresponding tap holder, keeping in mind the size of the shank of the tap and the square drive (see page 10).

• Tappers with chuck for tap holder

Models: MAS..., MASE...P, MAY..., MAY...P, MAO...P

The taps allowing a limited clearance between tap and chuck, support manual applications where the operator considers it wise that the tap is self-centered on the hole to be tapped.

• Tappers with chuck for high-precision tap holder Models: MAS...B. MASE...PB. MAY...B. MAY...PB

The high-precision tap holders used in these tappers assure that the tap turns perfectly centered in relation to the tool: a solution which should therefore be chosen when very high tapping quality is required and when the tapper is mounted in a tapping machine or pantograph arms. When **tapping dead holes** it is advisable to use a tapper with a high-precision **tap-holder** and integral clutch. When the tap reaches the bottom of the dead hole the clutch slips, stopping the tap from rotating and thereby avoiding breakages.

Efficient answers to all job requirements

It is advisable to use Fiam air tappers

- with **straight grip** for vertical tapping operations
- with **pistol grip** when working in horizontal position, particularly when one is tapping holes of above 6-8 mm, since they are better suited to contrast the torque reaction on the hand; in these situations it is advisable to use the auxiliary side grip which permits a reduction of the **torque reaction dividing work load on both hands** (ISO 11148-3 standard).

For ergonomic tightening operations it is advisable to use **balancing and cartesian arms** to reduce any fatigue in operator's hands and arms (see nr. 79 'Accessories for ergonomic workplaces' catalogue)

In case of particular situations of manual tapping and tapping machines applications, Fiam designs and manufactures **special tappers** with control top for remote control, with clutch for dead holes, with smooth or flanged body, in a very wide range of speeds.

Consult the Fiam Technical Consultancy Service to find the best solution.



Be demanding

Don't be satisfied with the maximum

Reliability Productivity

Long lifetime of the components thanks to careful design and quality of the production on process which results in less maintenance and repair costs

The internal gears guarantee constant performances and long lifetime of the tool

The air motors employed ensure long lifetime, high power and maximum output

Tools are manufactured with high quality materials that guarantee greater resistance to wear

Great use effectiveness thanks to innovative design systems

All tappers (except MAO... models) are provided with an easy to use automatic inversion device with increased reverse speed for rapid extraction of the tap with a considerable reduction of assembly times. To extract the tap from the hole one needs simply to pull on the tool, which will then automatically invert the direction of rotation and simultaneously double its speed. MAO tappers are reversed by operating the special control lever

All tappers are fitted with a quickchange chuck which makes it easy to change the holders, stud bolts and inserts turning bushes according to the dimensions of the tap and of the thread of the stud bolts and inserts to be used

Fiam tappers guarantee a great versatility of use, making them the perfect answer to every work situation

Fiam tappers are ideal when threaded inserts or stud bolts are used in assembly (for example in the furniture industry or the automotive sector generally). Insertion of the stud bolts or threaded inserts is effortless and quick, with a considerable reduction of assembly times

- with chuck for tap holder
- These tappers are fitted with a quick-change chuck which makes it easy to change tap holders. The taps allowing a limited clearance between tap and chuck, support manual applications where the operator considers it wise that the tap is self-centered on the hole to be tanned
- with chuck for high-precision tap holder (identity code ...B) These tappers are fitted with a quick-change chuck which makes it easy to change the holder. At the same time the high-precision tap holders are fitted with a chuck for quick replacement of tap in case of breakage and wear

In case of particular situations of manual tapping and tapping machines applications, Fiam designs and manufactures special tappers with control top for remote control, with clutch for dead holes, with smooth or flanged body, in a very wide range of speeds

Two versions are available:





Perfection is in your hands

Naturally innovative

Ergonomics

Ecology

Optimization of the tool performances in regard to ergonomics and operator

The grip design and use of special light alloys make these tools lighter and more handy

They guarantee maximum handiness, thanks to the good power/weight ratio, reducing operator's fatigue

They are started using the related lever (straight models) or push button (pistol models) in a comfortable position for operator

Tappers can be started at slow speed to facilitate initial insertion of the tap in the workpiece

These tools are equipped with built-in silencing system, plus control of the exhaust air, to reduce the noise levels guaranteeing operator's safety

In order to contrast any eventual torque reaction on the operator's wrist, all tappers are equipped with an auxiliary grip (standard ISO 11148-3). MAO... tappers are fitted with **twin** grips, given that they are mainly used for more heavy operations

Pistol models are equipped with hanging ring for easier and more versatile use of the tool

The grips of MASE pistol models, are manufactured with an ergonomic sheath made of no slip material making them easier to hold the tool, increasing the hand grip, improving the handling, the thermal isolation

and operator's comfort ERGOTECH / Ergotech project Having full knowledge of the ergonomics and safety needs of

the operator, Fiam optimizes the performances of its tools and offers support and qualified training for the correct use of the tools

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

The advanced 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 or a danger for personal safety

All Fiam products are supplied with eco-friendly packaging

Fiam tappers work at maximum efficiency without need of lubrication guaranteeing in such the absence of oil exhaust into the working environment



MAS... and MAY... straight air tappers

Straight air tappers

IDLE SPEED:

forward: from 220 to 1000 r.p.m.

back: from 470 to 1700 r.p.m.

APPLICATION FIELD:

used in manual tapping for diameters of 6-12 mm; ideal for vertical tapping operations



170,00T/ 190		Olio Olio	The capacity	10/6.82060d		Stating system	Reversibility	Weight	Oinensions (mm)	Compressed	Noise level	Vibrations (ever
Model	Code	Туре	Ø mm	Forward	Back	Туре	Туре	Kg	ØxL	l/s	dBA	m/s²
MAS6	134610106		6	1000	1700	1	U	0,980	40×240	9	74	< 2,5
MAS6B	134612106		6	1000	1700	1 1	U	0,980	40×240	9	74	< 2,5
MAS8	134610108		8	500	800	1 1	U	0,980	40×240	9	74	< 2,5
MAS8B	134612108		8	500	800	1 1	U	0,980	40×240	9	74	< 2,5
MAY10	136309028		10	450	930	1 1	U	1,820	46x335	11	78	< 2,5
MAY10B	136309026		10	450	930	1 1	U	1,870	46x330	11	78	< 2,5
MAY12	136309016	1	12	220	470	↓ ↓	U	1,820	46x335	11	78	< 2,5
MAY12B	136309031		12	220	470	1 1	U	1,870	46x330	11	78	< 2,5

Legend

MAS..., MAY... = models with chuck for tap holder • MAS...B, MAY...B = models with chuck for high-precision tap holder (To choose the right tapper see p. 3)

Legend

Reversibility:
All models can invert rotation simply by pulling on the tool.



Starting system lever + push

- The capacity indicated in the chart is referred to the maximum diameter of
- The capacity inducate in the cular is released to the inatural maintenances of threading on steel (for other materials see chart on page 3).
 The figures shown are measured at a pressure of 6,3 bar (ISO 2787), the recommended operating pressure.
 Noise level has been measured in accordance with ISO 3744 and
- ISO 15744.
- Vibrations level has been measured in accordance with ISO 20643
- standard.
 The code number must be used when ordering.

The data given in the table are indicative and can be changed without prior notice. The values indicated for noise 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. conditions.

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 FiamTechnical Consultancy Service.

Standard equipment (supplied with the tool)

- For MAS...: chuck code 659411001, drive J1
- For MAS...B: chuck code 659411002, drive J1 • For MAY...: chuck code 659611001, drive J2
- For MAY...B: chuck code 659511002, drive J2
- Hanging ring
- Auxiliary grip (standard ISO 11148-3)
 Eco-friendly packaging
- Use and maintenance manual

Accessories available upon request

•See p. 10

Other technical features

	/	/ Supply hoses recommended*		nded*
Models	Air inlet	Recommended hose bore	Rubber	Spiral
MAS	1/4" gas	Ø 8 mm	693511022	693011020
MAY	1/4" gas	Ø 8 mm	693511022	693011020

^{*} For features of hoses see p. 12-13

MASE...P, MAY...P and MAO...P pistol air tappers

Pistol air tappers

IDLE SPEED:

forward: from 140 to 1000 r.p.m.

back: from 140 to 1700 r.p.m.

APPLICATION FIELD:

ideal for horizontal tapping operations, particularly when one is tapping holes of above 6-8 mm



Tros of the		Gijo	Po capacity	100 80 100 100 100 100 100 100 100 100 1		Saming system	Peversibility	Weight	Dimensions (mm)	Compressed	Noise fever	Viorations (eve.)
Model	Code	Туре	Ø mm	Forward	Back	Туре	Туре	Kg	ØxLXH	l/s	dBA	m/s²
MASE6P	134610516	7	6	1000	1700	+1	U	1,000	38x230x155	9	78	< 2,5
MASE6PB	134612516	7	6	1000	1700	+-1	U	1,000	38x230x155	9	78	< 2,5
MASE8P	134610518	7	8	500	800	- 1	U	1,000	38x230x155	9	78	< 2,5
MASE8PB	134612518	7	8	500	800	- 1	U	1,000	38x230x155	9	78	< 2,5
MAY10P	136310510	7	10	450	930	+-1	U	2,080	46x289x147	11	78	< 2,5
MAY10PB	136312510	7	10	450	930	- 1	U	2,130	46x289x147	11	78	< 2,5
MAY12P	136310512	7	12	220	470	- 1	U	2,080	46x289x147	11	78	< 2,5
MAY12PB	136312512	7	12	220	470	- 1	U	2,130	46x289x147	11	78	< 2,5
MAO16P	137210116	-+	16	470	470	-+	U *	4,000	65x305x360	14	91	< 2,5
MAO18P	137210118	-+	18	140	140	-+	U *	4,580	65x335x360	14	91	< 2,5

Legend

MASE...P, MAY...P MAO...P = models with chuck for tap holder • MASE...PB, MAY...PB = models with chuck for high-precision tap holder (To choose the right tapper see p. 3)

Legend

Reversibility: MASE... and MAY... models can invert rotation by simply pulling on the tool.

* MAO... models invert rotation by using the appropriate lever.

- Push button + push to start Push button
- The capacity indicated in the chart is referred to the maximum diameter of threading on steel (for other materials see chart on
- diameter of threading on steel (for other materials see chart on page 3).

 The figures shown are measured at a pressure of 6,3 bar (ISO 2787), the recommended operating pressure.

 Noise level has been measured in accordance with ISO 3744 and ISO 15744.

 Vibrations level has been measured in accordance with ISO 20643 standard.

 The code number must be used when ordering.

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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 FiamTechnical Consultancy Service.

Standard equipment (supplied with the tool)

- For MAY...P: chuck code 659611001, drive J2
- For MAY...PB: chuck code 659511002, drive J2
- Hanging ring (except MAO...)
 Auxiliary grip (standard ISO 11148-3)
- For MAO...: chuck, wedge, pin, o-ring, expulsion wedge
- Eco-friendly packaging
- Use and maintenance manual

Accessories available upon request

•See p. 10

Other technical features

	/	/	/ Supply hoses recomme	nded*
Models	Air inlet	Recommended hose bore	Rubber	Spiral
MASEP	1/4" gas	Ø 8 mm	693511022	693011020
MAYP	1/4" gas	Ø 8 mm	693511022	693011020
MAOP	3/8" gas	Ø 13 mm	693511023	-

^{*} For features of hoses see p. 12-13

Chucks

Chuck for tap holders



For tappers series	Code
MAS, MASEP	659411001
MAY, MAYP	659611001
MAOP	659911001

Supplied with the tool

Chuck for precision type and clutch type tap holder



For tappers series	Code
MASB, MASEPB	659411002
MAYB, MAYPB	659511002

Supplied with the tool

Tap holders

Tap holders

They permit to work rapidly with different size taps. Each tap size requires a specific tap holder (see page 3).

These tap holders have to be used with: MAS..., MASE...P (chuck code 659411001), MAY..., MAY...P (chuck code 659611001), MAO...P (chuck code 659911001).



Dimensions	of the tap	
Shank ø mm	☑ drive mm	Code
2,8	2,1	655211028
3	2,4	655241030
3,5	2,7	655271035
4	3	655301040
4,5	3,4	655341045
5	3,8	655381050
6	4,9	655491060
6,3	5	655501062
6,5	4,9	655491065
7	5,5	655551070
7,3	5,5	655551073

Dimensions		
Shank ø mm	drive mm	Code
8	6,2	655621080
8,5	7	655701085
9	7	655701090
9,4	7	655701094
10	8	655801101
11	9	655901110
12,1	9,1	655911121
14,1	11,1	655111141
16,2	12,3	655010160
18,2	14,8	655900182

Precision tap holders

These tap holders permit to work rapidly and with high precision with different tap sizes. Each tap size requires the corresponding high precision tap holder (see page 3).

They have to be used with:

MAS...B, MASE...B (chuck code 659411002), MAY...B, MAY...PB (chuck code 659511002).

For MAS...B, MASE...PB tappers

Dimensions	Dimensions of the tap					
Shank ø mm		Code				
2,5	2,1	655212025				
2,8	2,1	655212028				
3,15	2,5	655252031				
3,5	2,7	655272035				
4	3	655302040				
4,5	3,4	655342045				
5	4	655402050				
6	4,9	655492060				
6,3	5	655502063				
7	5,5	655552070				
8	6,3	655632080				



For MAY...B, MAY...PB tappers

Dimensions	Dimensions of the tap					
Shank ø mm	☑ drive mm	Code				
2,8	2,1	655213028				
3,15	2,5	655253031				
3,5	2,7	655273035				
4	3	655303040				
4,5	3,4	655343045				
5	4	655403050				
6	4,9	655493060				
6,3	5	655503063				
7	5,5	655553070				
8	6,3	655633080				
9	7,1	655713090				
10	8	655813100				
11	9	655903110				

Precision tap holders with integral clutch

These tap holders are used for high precision tappings in dead holes to avoid the tap breakage. They permit to work rapidly also with different size taps. Each tap requires a specific tap holder. These tap holders have to be used with: MAS...B, MASE...PB (chuck code 659411002), MAY...B, MAY...PB (chuck code 659511002).



Dimensions	of the tap	
Shank ø mm	drive mm	Code
2,5	2,1	655214025
2,8	2,1	655214028
3,15	2,5	655254031
3,5	2,7	655274035
4	3	655304040
4,5	3,4	655344045
5	4	655404050
6	4,9	655494060
6,3	5	655504063
7	5,5	655554070
8	6,3	655634080



For MAY...B, MAY...PB tappers

Dimensions	of the tap	
Shank ø mm	drive mm	Code
2,8	2,1	655215028
3,15	2,5	655255031
3,5	2,7	655275035
4	3	655305040
4,5	3,4	655345045
5	4	655405050
6	4,9	655495060
6,3	5	655505063
7	5,5	655555070
8	6,3	655635080
9	7,1	655715090
10	8	655815100
11	9	655905110

Stud bolt holder

Stud bolt Ø mm	M3	M4	M5	M6	M8	M10	M12
Code 656031	030	040	050	060	080	100	120

Stud bolts are not supplied.



Insert holder

Insert Ø mm	M4	M5	M6	M8	M10	M12	5/16x14	7/16x14	CEE	
Code 657031	040	050	060	080	100	120	657070516	657071716		
									2-6-6-0	

Inserts are not supplied.



FRL Group - Filter, pressure regulator, lubricator

The FRL group is recommended for filtering, regulating and lubricating the compressed air supply for air tools. This system eliminates solids and **humidity** while supplying a precise air flow and suitable lubrication. Where necessary, it is indicated for obtaining the required torque values by adjusting the pressure of the air supply.





Threaded attack	Flow rate	Complete assembly	Reduction compl. of gauge	Lubricator
	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

Spiral supply hoses - with couplings

Polyurethane spiral supply hoses with a maximum extended length of 8 m. Extremely flexible and resistant, they take up less space thanks to their reduced external diameters.

To choose the most suitable supply hose, refer to the recommended hose bore given on page 7 and 9.

Ø internal = recommended hose bore



Polyurethane hose (green) Ø internal x Ø esternal mm	Length mm	Swivelling male coupling	Fixed female coupling	Code
8x12	1140 ÷ 8000	1/4" gas	1/4" gas	693011020

Rubber supply hoses - with couplings

Rubber supply hoses for models MAO...P.

Rubber supply hoses with coupling made with inner duct in synthetic rubber and high resistance reinforced textile chase.

They can be used with compressed air, water, cutting oil and antifreeze liquids. They are extremely flexible and versatile and above all safe and resistant in time.

Upon request, hoses of other dimensions are available: please apply to the FiamTechnical Consultancy Service.

To choose the most suitable supply hose see pages 7 and 9.



Hose mm Ø intemal x Ø estemal	Length mm	Swivelling male coupling	Fixed female coupling	Code
9,5x15,9	3000	1/4" gas M	1/4" gas F	693511022
9,5x15,9	3000	3/8" gas M	3/8" gas F	693511023

Quick couplings and nipples

To choose the most suitable quick coupling, refer to the air inlet and the recommended hose bore in the Catalogue.

Recommended hose bore			Female quick coupling	
		Code	Code	
Ø 8 ÷ 10 mm	1/4" gas	695411114	695431114	
Ø 13 mm	3/8" gas	695411138	695431138	





To choose the most suitable quick nipples, refer to the air inlet and the recommended hose bore in the Catalogue.





Recommended hose bore	Air inlet threading	Male quick coupling	Female quick coupling
		Code	Code
Ø 8 ÷ 10 mm	1/4" gas	695311114	695331114
Ø 13 mm	3/8" gas	695311138	695331138

Flexible coupling

These light and compact couplings improve the operators' working conditions; they prevent twisting of supply hoses and reduce vibrations.

Model	Coupling F/M	Code
RS 25 FM	1/4"	695091015
RS 30 FM	3/8"	695091020



Exhaust air hose conveyors

Used to drive away the tool exhaust air from the operator and therefore making the workplace more ergonomical.

For air tappers series	Code	
MAS, MASB	693751006	
MASEP, MASEPB	693751009	= 9
MAY, MAYB, MAYP, MAYPB	693751003	

Auxiliary grip

The use of the auxiliary grip is recommended to permit a considerable reduction of the fatigue to the operator.

For more information please contact Fiam Technical Consultancy Service.

ø internal (mm)	For series	Code
40	MAS, MASB	681041230
36	MASEP, MASEPB	681041200
46	MAY, MAYP, MAYB, MAYPB	681041002



Lubricating oil for air tools

Used to lubricate the internal components of the motor group.





1 lit. bottle

Balancer

The use of the balancer allows the operator to work in safety and without effort, at the same time guaranteeing the maximum care of the tool.

In conformity with Machine Directives (Law 2006/42/EC)

Capacity min - max	Cable length mm	Code
0,4 ÷ 1	1600	690011160
1 ÷ 2	1600	690021160
2 ÷ 4	2000	690041200
4 ÷ 6	2000	690061200
6 ÷ 8	2000	690081200
8 ÷ 10	2500	690101250



Balancer with built-in supply hose

Particularly indicated to support and to feed at the same time straight air tools. The balancer is provided with a hose that can be connected directly to the main air feed so that the tool is supplied directly.

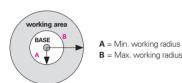
Capacity min - max	Length mm	Male coupling	Code
1,2 ÷ 2,5	1350	1/4" gas	691021202

BC Cartesian Arms

Entirely **designed and manufactured by Fiam**; for tools with diameter up to 50 mm and weight up to 7 Kg thanks to universal clamp.

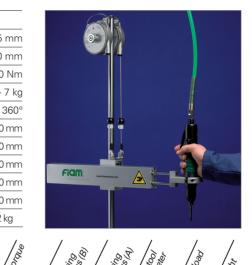
Equipped with tempered and chrome steel column of vertical and horizontal axis and their movements running on ball recirculating runners guarantee smoothness, handiness and accuracy. Solidity, stability and flexibility both in extension over its entire height and in the rotation at 360° without arm swings.

Possibility to adjust the horizontal axis to favour the return of tool at initial position and its easy position adjustment in continuous mode: this is made without disassembling components, by loosening and re-tightening screws in the new position.



Technical features	
Max working radius	775 mm
Min. working radius	120 mm
Max. torque.	40 Nm
Max. load	1 - 7 kg
Max angle of rotation	360°
Max. tool diameter	32-50 mm
Vertical stroke	850 mm
Horizontal stroke	320 mm
Max. height	1100 mm
Max. width	550 mm
Package weight	2,2 kg

Cartesian arm



		Max to	Zoz Zoże Gorgina	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Max diam	Max 16	Weigh
Model	Code	Nm	mm	mm	mm	kg	kg
Cartesian arm BC12	692031020	12	775	180	32 - 50	1	8,5
Cartesian arm BC25	692031021	25	770	175	32 - 50	2	9,5
Cartesian arm BC40	692031022	40	770	120	32 - 50	3	17,5
Cartesian arm BC40/7	692031023	40	770	120	32 - 50	7	17,5

Standard equipment (supplied with the arm)

• 2 balancers • Protective cover • Instructions for assembly and use • Eco-friendly packaging

Accessories available upon request

• Models for tools weighing more than 7 Kg.: for further information, contact the Fiam Technical Consultancy Service.

BT telescopic reaction arms in carbon fibre

BT telescopic

For every type of tool since extremely resistant to any mechanical stress thus guaranteeing reliability and long life span, thanks to accurate manufacturing process and to their innovative materials. Equipped with 3 telescopic elements and double terminal coupling to guarantee high handiness and manouvrability. They can be easily installed on existing workplaces on ceiling or wall using a simple plate with reduced dimensions.



		Waston	000 00 00 00 00 00 00 00 00 00 00 00 00	000 00 00 00 00 00 00 00 00 00 00 00 00	o max ti
Model	Code	Nm	mm	mm	mm
BT10 1000	692071010	10	1105	495	27-46
BT10 1500	692071020	10	1605	665	27-46
BT15 1000	692071030	15	1095	515	27-46
BT15 1500	692071040	15	1595	685	27-46
BT15 2000	692071050	15	2095	855	27-46
BT40 1000	692071060	40	1095	515	27-46
BT40 1500	692071070	40	1595	685	27-46
BT40 2000	692071080	40	2095	855	27-46
BT40 2500	692071090	40	2095	1025	27-46
BT80 1500/2000/2500	upon request	80	from 1595 up to 2595	from 685 up to 1025	-
BT150 1500/2000/2500	upon request	150	from 1560 up to 2560	from 650 up to 990	-
BT220 1500/2000/2500	upon request	220	from 1575 up to 2575	from 665 up to 1005	-

Standard equipment (supplied with arm)

- 3 kits of screws with different lengths to install tools with different diameter from 25 up to 46 mm
- Tool holder accessory cod. 692079010 (for models BT10/15/40)
- Use and maintenance manual
- Eco-friendly packaging

Accessories available upon request

- Tool holder accessory cod. 692079010 (for models BT80/150/220)
- Other different tool holder accessories: multi-position, swiveling, with extensions 90 mm long.

To avoid undesirable effects on the operator's wrist, arm or shoulder movements and for minimum fatigue during manual operations, Fiam has designed the BA50 balancing arm to complete the range of other models with different capacities. This balancing arm can be used with air and electric tools (screwdrivers, drills, tapping machines, nutrunner motors) for tightening torque of maximum 50 Nm and weight from 0.7 to 2 kg.

If it is necessary to fit a heavier tool, weighing up to a maximum of 4 kg., special reinforced springs are available upon request. This system guarantees extreme working precision because the tool is kept perfectly perpendicular to the piece being machined thanks to the specific adjustable adapter supplied with the balancing arm.

Furthermore it is simple to use and ensures excellent manoeuvrability.

The stand is supplied complete with a fixing plate.

Max. work range	1000 mm
Min. work range	630 mm
Max. torque	50 Nm
Max. load (with standard springs)	2 kg
Max. load (with reinforced springs)	4 kg
Max. rotation angle	360°
Ø max. tool	50 mm

Model	Code			
BA50	692031008			
Standard equipment (supplied with balancing arm)				
Adjustable adapterBench base plateEco-friendly packaging				

Accessories available upon request

• To support tools of up to 4 kg max, it is neces to order 2 reinforced springs (code 692059022)



For balancing arm that must support weights of more than 4 kg., please contact Fiam Technical Assistance Service.

BA20 balancing arm

The BA20 balancing arm, for tools with a maximum of 20 Nm tighetening torque, can be adapted very easily to tools of

The BA20 balancing arm ensures since the tool is kept perfectly perpendicular to the piece being drilled.

Work can also be carried out horizontally or on two axes at the same time, simply by

Max work range	850 mm
Min. work range	520 mm
Max. torque	20 Nm
Max. load (with standard springs)	1 kg
Max. load (with reinforced springs)	2,5 kg
Max. rotation angle	360°
Ø max. tool	from 25 to 50 mm

choosing the specific adapter.

It can be used with both air and electric screwdrivers or drills, tapping and riveting machines, etc.

Furthermore, its great manoeuvrability considerably reduces the operator's fatigue.

The arm with standard springs; to support a weight up to 2.5 kg., the standard springs must be replaced with the reinforced ones.



Model	Code
BA25 balancing arm	692031009

Standard equipment

- Reinforced spring code 692059010
- Bench base plate
- Eco-friendly packaging

Adapters for BA20 available upon request (to be ordered separately)

 Adapters to work on the vertical axis



 Adapter to work on the horizontal axis



 Adapter to work on two axis



Adapter	Code	Ø internal adjustable mm
AD 25/40	692059008	25÷40
AD 30/50	692059009	40÷50

Adapter	Code	Ø mm
AD 36	692059014	36

Adapter	Code	Ø max mm
AD 36/2AX	692059015	36

For adapters with different diameter, please contact Fiam Technical Consultancy Service.



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