



 MEMBER OF DEXIS EUROPE



 **Airblock**

EXPANDING SHAFTS



FAIT Group was founded in 1976 as a reseller of industrial technical items for the thriving textile district of Prato.

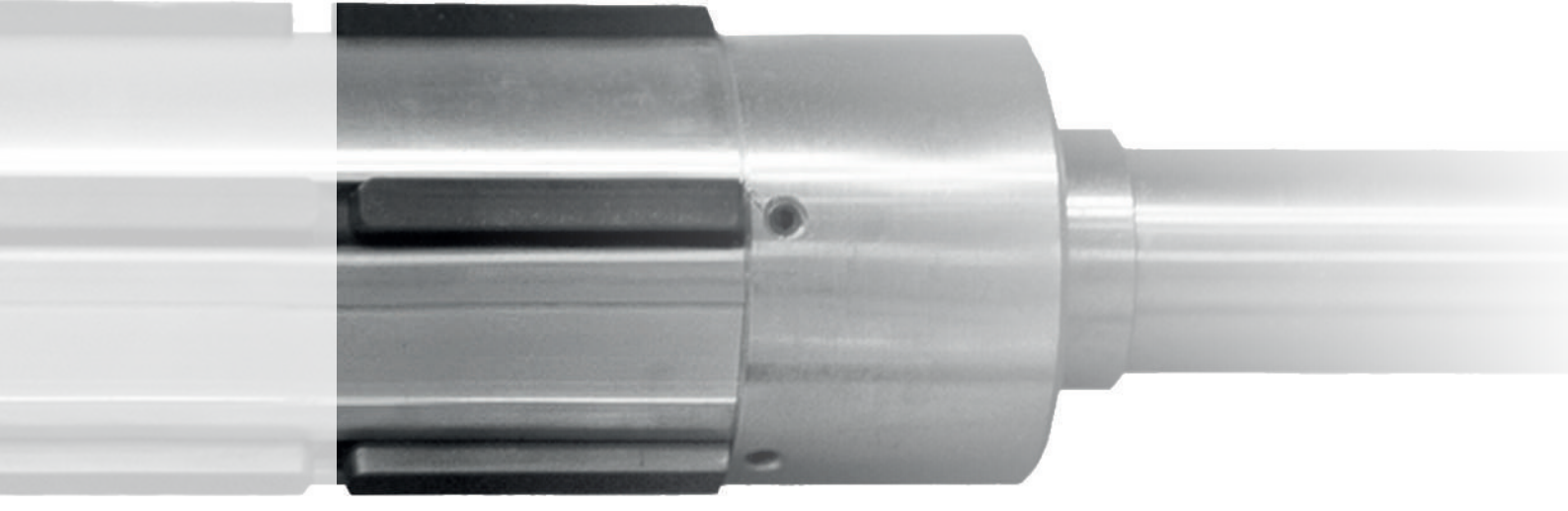
Over the years, the company has come to preside over the linear motion market, with the production and distribution of hardened shafts, guides, linear modules, ball screws, alveolar profile rollers, aluminium profiles, conveyors and assemblies for machinery frames and safety fences.

FAIT Group business processes are guided by the key principles of lean production and industry 4.0, and by the values of high integration between departments, quality, flexibility, dynamism, enhancement of human resources, dialogue and continuous improvement.

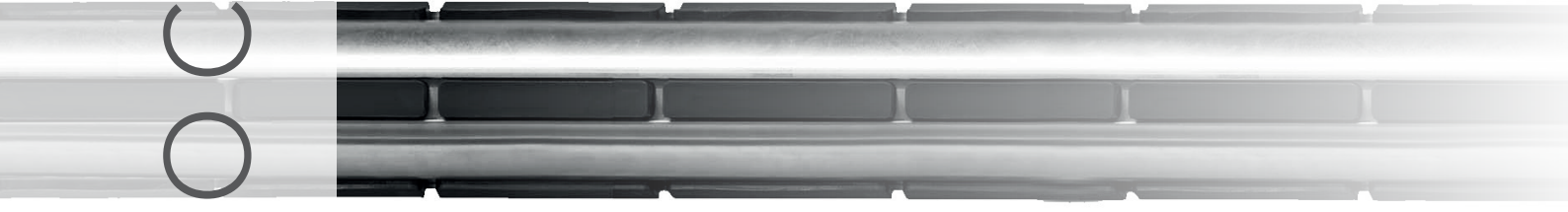
FAIT Group is a point of reference for OEMs in many industrial sectors, constantly offering technical support and continuous coaching as a construction partner.

2018 sees the kick-off of the collaboration with DEXIS which, through the largest brands on the market, offers services and solutions for equipment maintenance.

Investments in design, processes and machinery have never stopped.



AIRBLOCK



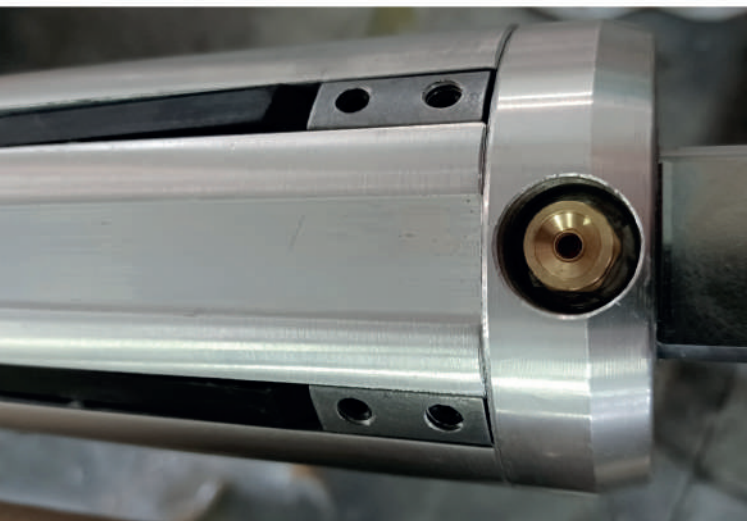
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Airblock type L is an expanding shaft composed of aluminium or steel body, with slots inside which high-resistance air chambers are placed. Each air chamber ensures constant and homogeneous pressure on the winding core.

The strips positioned inside the slots can be made of **rubber, PU** or **aluminium**, based on application needs.

The pins, made entirely to the customer's design, can be produced in steel and stainless steel. On each journal it is also possible to apply different treatments such as galvanizing, burnishing or induction hardening.



The inflation valve can be positioned both on the pin and on the body of the shaft.

AIR BLOCK TYPE L - STRIPS - ALUMINIUM BODY

Core id (mm)	50,8	70-76,2	76,2	76,2	101,6	120	150	152,4
Airblock shaft diameter (mm)	48,7	69	74,3	74,3	100	118	148	150,5
Number of strips	3	5	5	6	6	6	8	8
Airblock weight (pins not included) kg/mt	4,9	8,5	6,9	10	15,3	15,7	19,8	20,7

Recommended operating pressure 4 - 5 Bar.

Standard inflation valve 1/8 NPT - Other executions on request.

The inflation gun is not included in the delivery, if necessary it can be ordered separately.

AIR BLOCK TYPE L - STRIPS- STEEL BODY

Core id (mm)	50,8	70	76,2	101,6	120	152,4
Airblock shaft diameter (mm)	50	69	74	99	118	150,5
Number of strips	3	5	5	6	6	8
Airblock weight (pins not included) kg/mt	15	30	35	31	74	127

Recommended operating pressure 4 - 5 Bar.

Standard inflation valve 1/8 NPT - Other executions on request.

The inflation gun is not included in the delivery, if necessary it can be ordered separately.



Airblock type L is used on all core types, both single and multiple reels. It is possible to create the shaft with double expansion or in a self-centring version, with 6 and 8 strip execution.

2.1 Key version



Airblock type K is the key version with body that can be executed both in aluminium and steel, used mainly for single-reel applications with high loads and torques.

The **keys or lugs** positioned inside the appropriate slots can be in **rubber**, or in **aluminium**, based on application needs.

The **pins**, made entirely to the customer's design, can be produced in steel and stainless steel. On each journal it is also possible to apply different treatments such as galvanizing, burnishing or induction hardening.

AIR BLOCK TYPE K - KEYS - ALUMINIUM BODY

Core id (mm)	70	76,2	101,6	120	150
Airblock shaft diameter (mm)	69	74,5	98	118	149
Number of keys	3+3	3+3	4+4	4+4	5+5
Airblock weight (pins not included - aluminium body) kg/mt	8,7	10	16,4	21,7	31,5

Recommended operating pressure 4 - 5 Bar.

Standard inflation valve 1/8 NPT - Other executions on request.

The inflation gun is not included in the delivery, if necessary it can be ordered separately.



It is possible to create the shaft with **double expansion**.



3.1 L version with axial displacement



The L - SL version of Airblock permits to align the reel during the winding phase, without carrying out machine stop actions.

As for the **L version**, the central body is in aluminium or steel, with slots inside which high-resistance air chambers are placed. Each air chamber ensures constant and homogeneous pressure on the winding core.

The strips positioned inside the slots can be made of **rubber, PU or aluminium**, based on application needs.

The pins are made completely according to the customer's design.

Thanks to a special positioning system, it is possible to align the reel with a knob without stopping the production process.





Airblock type L - M is an expanding shaft composed of a central body made of aluminium or steel and a mechanical expansion system that allows the strips to expand uniformly, ensuring perfect centering of the cores. The mechanical expansion system is operated by a knob.

The slots positioned inside the shaft can be made of **rubber, PU** or **aluminium**, based on application needs.

The pins, made entirely to the customer's design, can be produced in steel and stainless steel. On each journal it is also possible to apply different treatments such as galvanizing, burnishing or induction hardening.

AIR BLOCK TYPE L - M (MECHANICAL STRIPS - ALUMINIUM BODY)

Core id (mm)	70	76,2
Airblock shaft diameter (mm)	69	74,3
Number of strips	5	5
Airblock weight (pins not included - aluminium body) kg/mt	8,5	10



Pneumatic Chucks are a valid, simple and flexible locking system of the cores, which allows the change of reels of different diameters without replacing the entire shaft.

The body of the chucks is made of light aluminium alloy, while the circular band is made of high- resistance rubber.

The expandable heads can be connected in series and powered by a single one inflation valve, thus obtaining a homogeneous pressure and consequently, a better performance.



6.1 SAFETY CHUCKS

With sliding flange

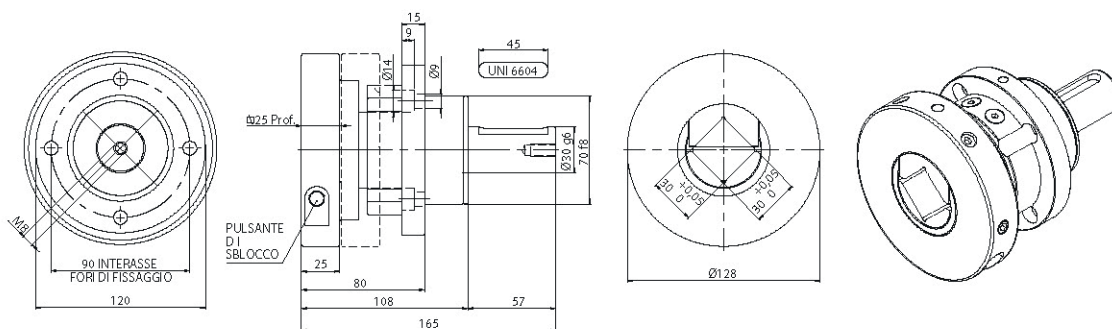


Our mechanical supports are made in the sliding version and can be equipped with 25 or 30 mm V Shape square ends. The square inserts are machined with precision machinery and easily replaceable in case of wear or change in the dimensions of the support.

The opening of the support is sliding in order to simplify the operations of unloading and replacing the reels. Furthermore, the system has a special release button that does not allow accidental rotations when the head is open and above all unwanted failures during operation.

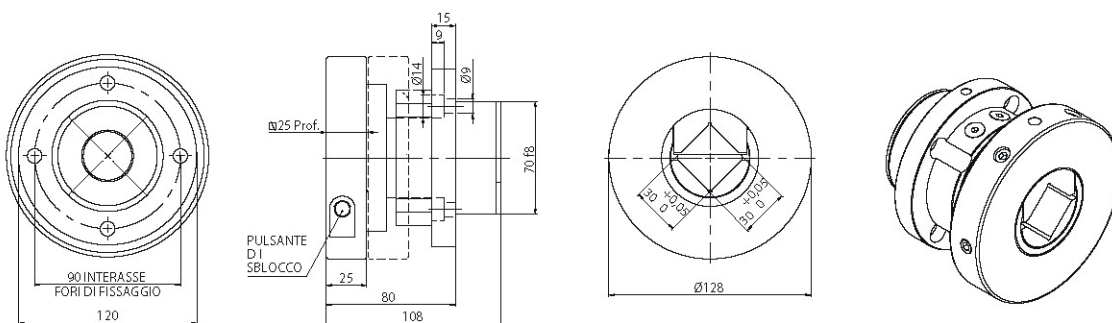
6.2 SAFETY CHUCKS

With sliding flange



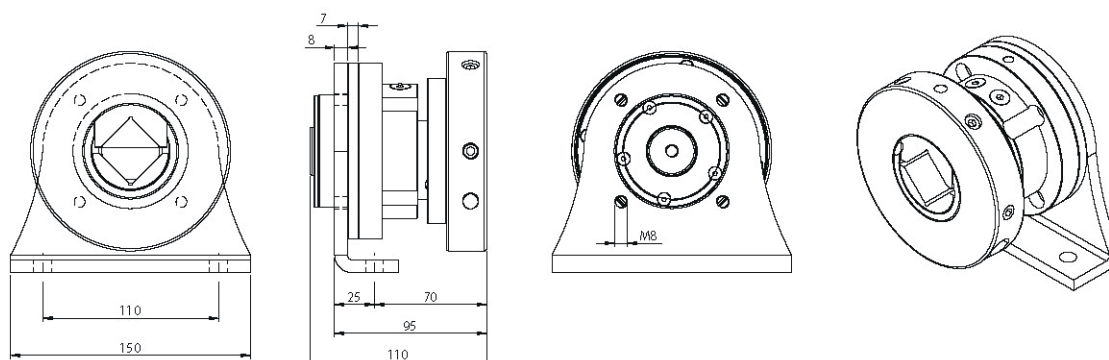
Max speed limit 350 RPM. Max load (for the couple of chucks) 5000N. Max Torque 200 Nm.

SLIDING SUPPORT SSF1 - 030 o 025



Max speed limit 350 RPM. Max load (for the couple of chucks) 5000N. Max Torque 200 Nm.

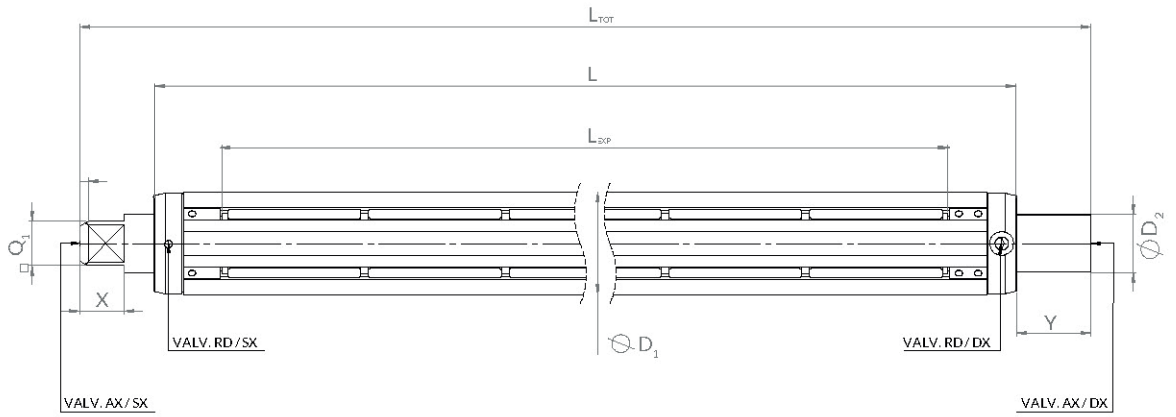
SLIDING SUPPORT SSF0 - 030 o 025



SLIDING SUPPORT WITH FIXING BRACKET 00P

6.1 QUOTATION FORM

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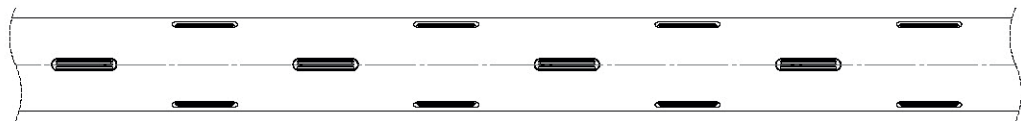


Model:

- Airblock type L
- Airblock type L-M
- Airblock type SL

Strips material:

- Rubber
- PU
- Aluminium



Model:

- Airblock type K

Keys material:

- Rubber
- Aluminium

L_{TOT}	
L	
L_{EXP}	
$\varnothing D_1$	
$\varnothing D_2$	

Q_1	
X	
Y	

Execution

Shaft material	Aluminium <input type="checkbox"/>	Steel	<input type="checkbox"/>
Position of the valve	RD/SX <input type="checkbox"/>	RD/DX <input type="checkbox"/>	AX/SX <input type="checkbox"/> AX/DX <input type="checkbox"/>
Pins material	Steel <input type="checkbox"/>	Stainless steel <input type="checkbox"/> <input type="checkbox"/>
Pins treatment	None <input type="checkbox"/>	Galvanising <input type="checkbox"/>	Burnishing <input type="checkbox"/> Ind. Hardening <input type="checkbox"/>
Inflation gun	YES <input type="checkbox"/>	NO	<input type="checkbox"/>

Application

Core material	Cardboard <input type="checkbox"/>	Plastic <input type="checkbox"/>	Other <input type="checkbox"/>
Core inner diameter		mm	
Reel material			
Number of reels			
Weight of each reel		Kg	
Max length		mm	
Min length		mm	
Max diameter		mm	
Reels distance		mm	
Web tension		DaN/mt	
Speed		mt/min	







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