

since 1988



TESEO®

FLUID POWER DISTRIBUTION SYSTEMS



TESEO, founded in 1988, immediately began to prove to the worldwide market its character in pioneering, innovative and creative ability, capable of developing exclusive products and patenting several technological solutions.

At the beginning of 90's it was the first company worldwide to develop a modular aluminium pipework for the distribution of compressed air.

Today such systems are internationally appreciated for the distribution of fluid energy such as compressed air and vacuum, both for small laboratories and for large industry.

The modular profiles by TESEO have been installed in numerous applications, and can count on several important references: automotive, textile, mechanical, automation and many many others.

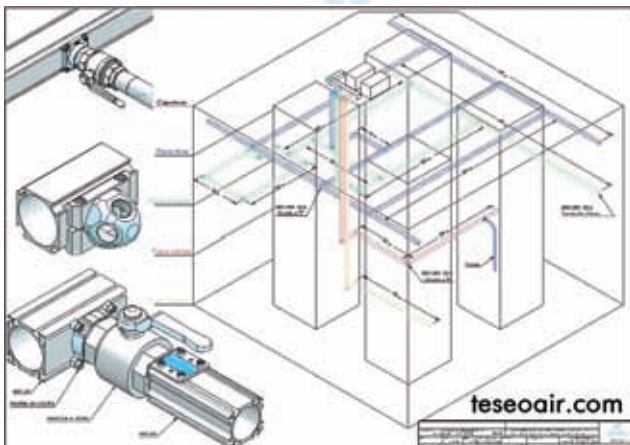
ALUMINIUM BECAUSE

- Light weight
- Easy to work with
- Looks nice
- Impact resistant
- Corrosion free
- Recyclable

TESEO follows the whole production process of its products, and takes care of every step from the designing to the manufacturing of the finished component, through a network of selected partner companies. From the main factory in Italy the product is then distributed by a worldwide sales organization.

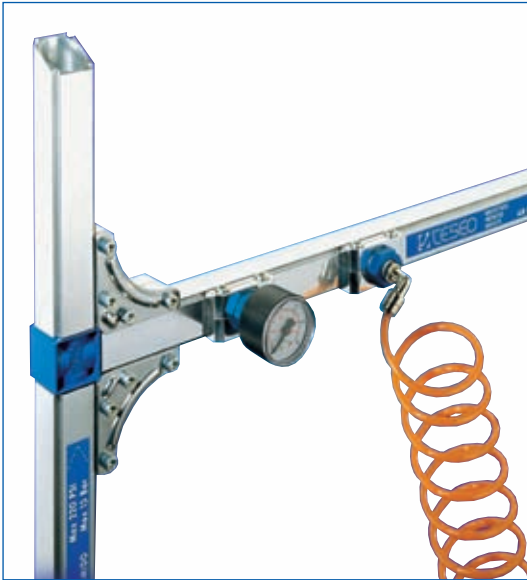
Quality and safety are fundamental points for TESEO and are assured by its own Quality Management System according to ISO 9001, and by a specific philosophy on design, development and testing.

The piping systems are built respecting the safety requirements prescribed by several norms and are certified by different international laboratories.



Besides the production and selling of the products, TESEO also supports its own partners and customers through the designing and sizing of air lines, the developing of customized solutions for machines or production lines, consulting on inquiries and technical training, supervision during the installation and testing of the system.

AP ALUMINIUM PIPEWORK



AP is the latest generation of modular piping system developed by TESEO, available in 20, 25 and 50 mm diameters with a wide range of accessories.

The pipes are in extruded aluminium and are connected to fittings and accessories, equipped with "O" rings, with the exclusive dovetail clamping and joining system patented by TESEO.

AP can handle compressed air up to 15 bars pressure, vacuum and other non dangerous gases.

It is suitable for the installation of column drops, small distribution ringmains and manifolds on machines or control panels.

The assembly is easy and very fast with the use of simple tools, without threading or welding any component. By simply drilling the profile and applying an outlet plate, you can immediately extract the fluid power where needed, at any moment, and even when the installation is already completed.



Awarded by the Industrial Forum for:

- modern design
- energy efficiency
- recyclability

| PROFILE | INNER Ø (mm) | FLOW RATE (dm ³ / min) ANR |
|---------|-----------------|--|
| AP 20 | 20 | 1.500 |
| AP 25 | 25 | 2.700 |
| AP 50 | 50 | 16.000 |

$P = 8 \text{ bar}$ - $L = 30 \text{ m}$ - $\Delta p = 3\%$

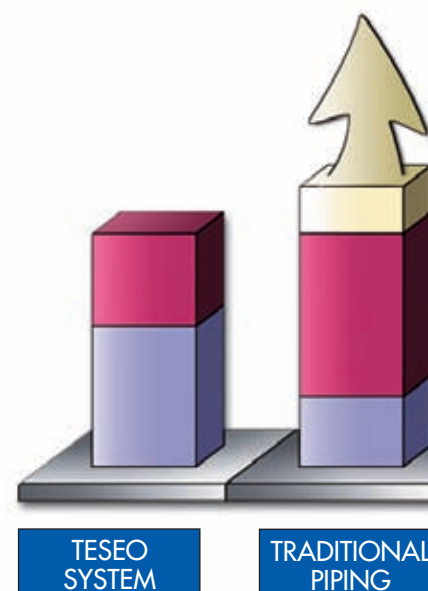
Data processed by: University labs of Torino



WHY BUY A TESEO MODULAR PIPING SYSTEM

A modern modular pipework system allows you to eliminate "hidden" costs, often not made clear when planning the investment:

- costs for leakages, one of the heaviest charges with traditional piping;
- costs of the air treatment, maintenance or repairing machines and tools;
- costs for downtime and labour for each modification to the installation;
- costs for the low flow rate and high pressure drop due to the friction against the inner surface of traditional galvanised steel pipe.



HBS HOLLOW BAR SYSTEM



HBS was the first modular air line system created by TESEO at the beginning of the 90's with a wide range of diameters, up to an inner diameter of 110 mm.

It is made by profiles and accessories in aluminium capable of distributing compressed air with a maximum pressure of 15 bars, vacuum and other non dangerous gases. The sealing is guaranteed by common "O" rings; the connection of the different components can be simply done by tightening the Allen screws on the fixing plates.

The smoothness of the internal surface ensures low air friction and guarantees high performance in terms of flow rate and pressure reduction. HBS is particularly suitable for the installation of the main distribution line and manifolds on machines or automatic lines.



No welding

No threading

No painting

A Tesco pipework system is easy to install and modify, it is not subject to corrosion created by the condensate, doesn't contaminate the air with impurities and it is safe, as stated by international certifications covering the product and controlled by strict tests conducted by the manufacturer.

Being aluminium profile, it is much stronger than round tube. It is therefore possible to assemble small frames or workbenches. The grooves on the profile make it possible to fix other lines to the pipework itself, such as electrical or data cable trays.

THE HIDDEN COSTS CONTINUE TO INCREASE DURING THE WHOLE LIFE OF THE INSTALLATION!

- Hidden costs (air quality, modifications, low efficiency and air leaks)
- Labour costs
- Material costs

| PROFILE | INNER Ø (mm) | FLOW RATE (dm ³ / min) ANR |
|---------|--------------|---------------------------------------|
| HBS 25 | 25 | 2.700 |
| HBS 32 | 32 | 5.100 |
| HBS 50 | 50 | 16.000 |
| HBS 63 | 63 | 28.500 |
| HBS 80 | 80 | 54.000 |
| HBS 110 | 110 | 100.000 |

P = 8 bar - L = 30 m - Δp = 3%
Data processed by: University Labs of Torino



ATS AIR TRACK SUPPLY & ACCESSORIES

Since 1988, TESEO has been designing and producing a range of products complementary to the modular piping systems HBS and AP. Solutions related to ergonomics of pneumatics tools with the task of:

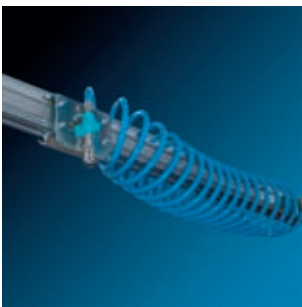
- decreasing the fatigue of the operatives supporting part of the tools weight through structures, rails and trolleys;
- improving the safety of the working area, feeding the devices from above, in order to remove from the plant floor the spiral and flexible hoses.



ATS is a trolley with a point of use for compressed air, and it runs on a modular rail in anodised aluminium. The trolley can support and feed one or more tools running along the track.



SAB is a swinging arm completely made of anodised aluminium, available in both bench and wall fixing versions. The horizontal bar is equipped with an outlet plate and a glider pad for the support of a pneumatic tool.



MAT is a trolley that fits directly onto the distribution line HBS 50, equipped with an outlet plate for compressed air and hanging points for balancers and tools. The pipe has the double role of rail and distributor manifold, thus reducing the overall dimensions and construction costs of an assembly line.



WBA is a workbench equipped for assembly activity operated with pneumatic tools. It is made of anodised aluminium profiles and includes an ATS system for screwdrivers and tools. One of the legs is pressurized acting as both a reservoir and outlet.



DT is a special tool allowing outlets to be installed while TESEO system is under pressure. With a few easy steps it is possible to install an outlet plate on the "live" distribution line and supply a new machines or pneumatic tools.

FLUID POWER IN THE FACTORY AND ON MACHINERY

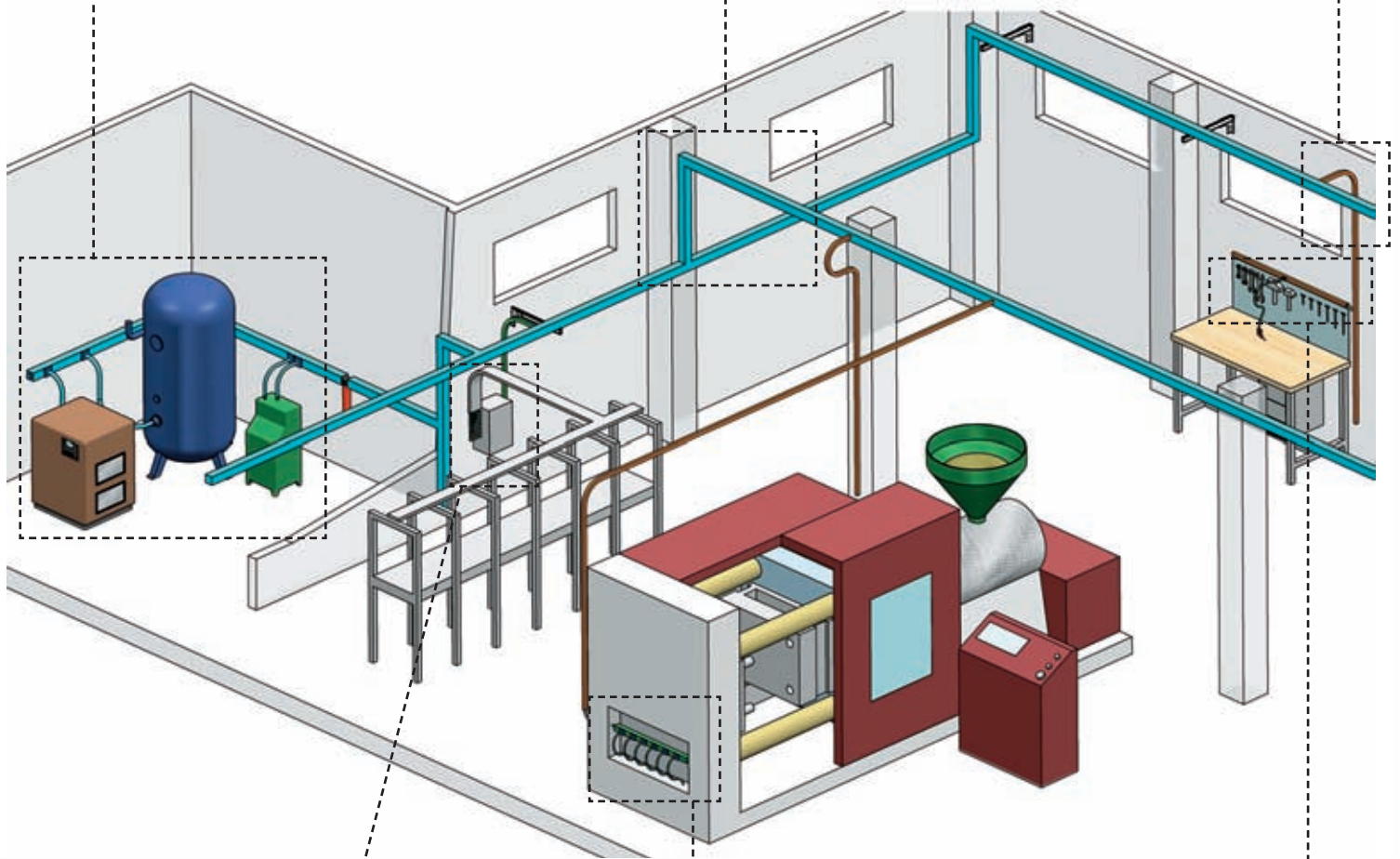
Bypass and manifolds for the assembly of compressor and air treatment equipment.



Distribution pipework in aluminium for compressed air, vacuum and other non dangerous gases, from 20 to 110 mm diameter.



Drops to the point of use, fast and easy to assemble or modify.



Distribution manifolds integrated on pneumatic control panels for automation.



Modular distribution manifolds on machines or automatic lines.



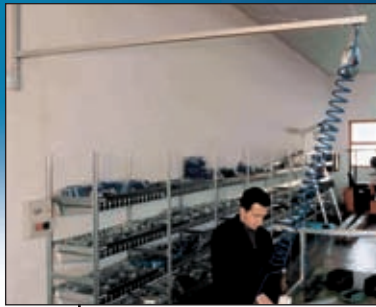
Feeding lines for pneumatic tools along walls or workbenches.

ERGONOMIC SOLUTIONS FOR PNEUMATIC TOOLS

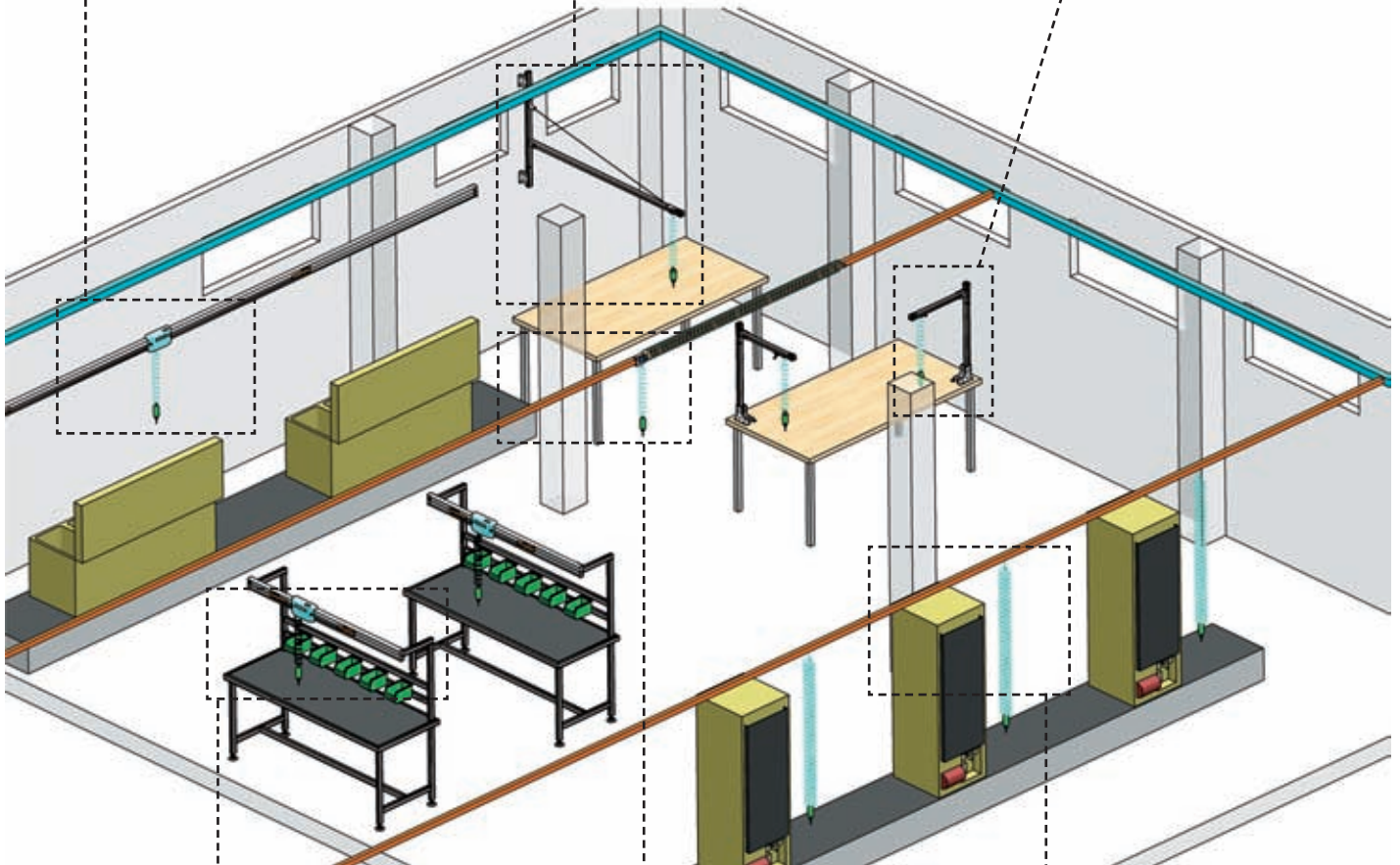
Modular track and trolleys on aluminium rail for compressed air and electrical distribution.



Pressurized pivoting arms in aluminium for feeding tools, covering a wide working radius.



Swinging arms on benches, to support and feed pneumatic tools.



Workbenches for assembly operated with pneumatic and electrical tools.



Trolleys running overhead on the aluminium pipework supporting and feeding pneumatic tools.



Assembly and production lines built combining aluminium profiles and glider pads.



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