COMPRESSED AIR & PIPEWORK SYSTEMS

MELBOURNE CITY TOYOTA

MAKING EVERY DROP COUNT

COMPRESSED AIR AND PIPEWORK SYSTEMS

When it comes to the smooth operation of your workshop or industrial facility, one critical system you need in place is the compressed air and piping system. Much like the intricate workings of a well-oiled machine, these systems play a vital role in maintaining operational efficiency.

COMPRESSED AIR SYSTEM: THE BACKBONE OF YOUR WORKSHOP:

The efficiency of your workshop relies on various factors. Among them, the compressed air and pipework system plays a significant part. It's not just about laying pipes and connecting fittings; it's about optimising your entire air distribution network to ensure seamless performance. Here's why it matters:

LAYOUT DESIGN:

The design of your compressed air and pipework system is the foundation of your setup's efficiency. A well-thought-out layout considers the placement of pipes, connectors, and drop points. A good layout ensures that your air distribution is functional and streamlined so it is easy to use. Ensure your operations stay fuelled with pumps for diesel transfer and organised with heavy-duty hose reels.

RING MAIN SIZE:

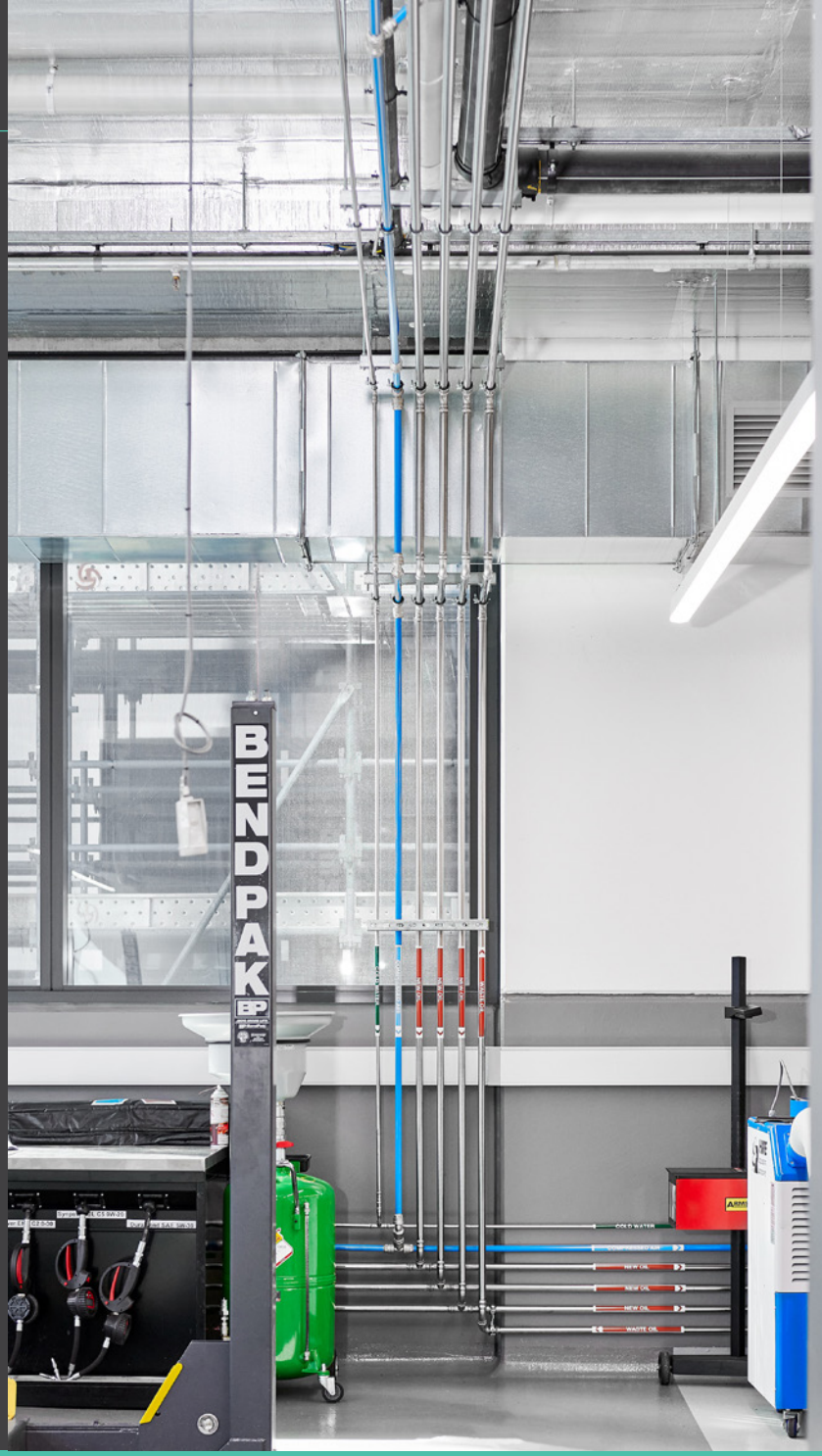
The size of the ring main, which is the primary loop of a compressed air piping system, should be thoroughly considered. It determines the capacity of your system to deliver compressed air to various points in your workshop. An adequately sized ring main ensures that air flows without bottlenecks, minimising pressure drops and maintaining consistent performance.

DROPPER SIZE:

Droppers are the connections between the ring main and individual tools or workstations. The size of droppers matters because it directly affects the delivery rate of compressed air. A system will be able to achieve optimal operation when droppers are the right size, ensuring that tools and equipment receive the required air pressure.

COMPRESSOR SIZE:

One of the most critical aspects of your compressed air system, pipe and fittings is the size of the compressor. If a compressor is too small, it will struggle to meet the demand, causing delays. However, if a compressor is oversized it consumes unnecessary energy. The key is finding the right balance for cost-effective and efficient operations.



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PROPER SIZING IN A COMPRESSED AIR PIPEWORK SYSTEM

Proper sizing of your compressed air and pipework system is not a luxury but a necessity:

ENERGY EFFICIENCY:

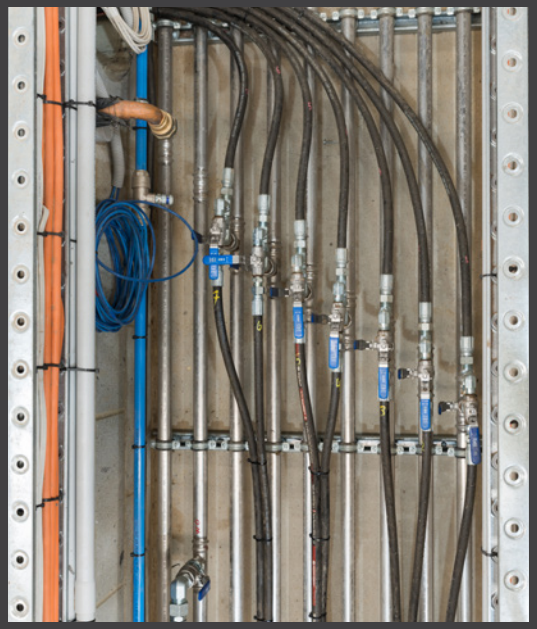
Keep energy consumption to a minimum with a system that is sized correctly. An oversized system will cycle on and off, wasting energy, while an undersized system strains to keep up with demand and consumes excess energy. Proper sizing leads to energy savings. Complement your compressed air system with 12v diesel fuel pumps.

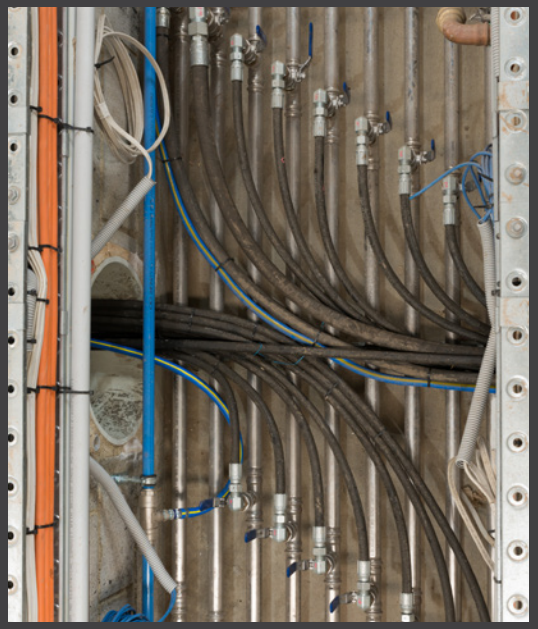
REDUCED DOWNTIME:

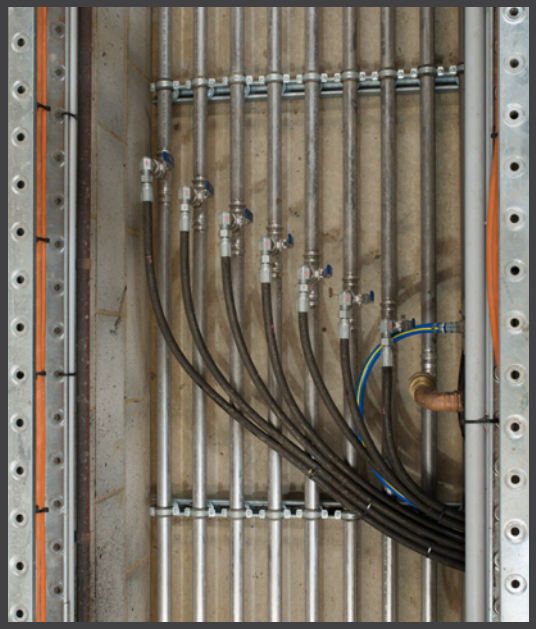
Inefficient systems can lead to unexpected downtime due to pressure drops or compressor overheating. A well-sized system maintains consistent air pressure, reducing the risk of unexpected breakdowns.

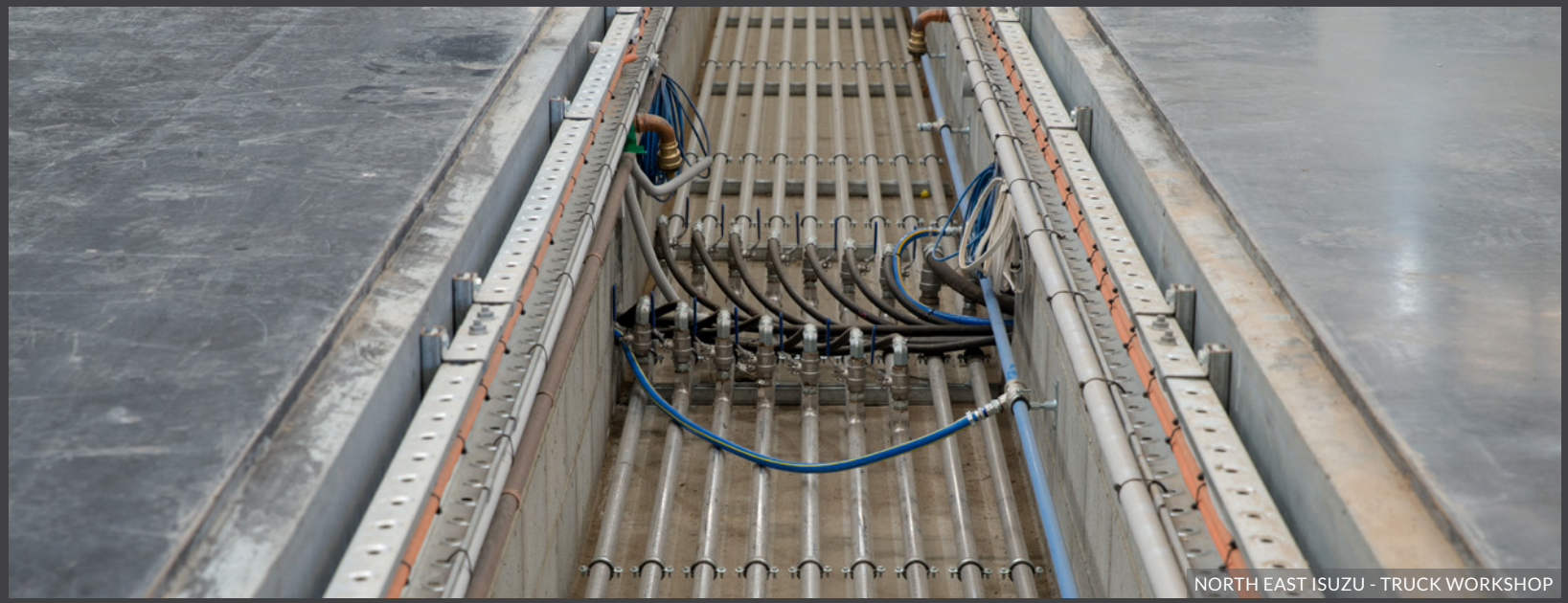
OPTIMISED PERFORMANCE:

With the right size and layout, your compressed air and pipework system optimises the performance of your tools and equipment. It ensures that every tool receives the necessary air pressure and flow. Integrate air-powered grease pump into your compressed air system to maintain and lubricate your machinery.









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CONTACT OUR WFI SPECIALISTS

SAM COOK
WORKSHOPS AND PROJECTS MANAGER
0439 025 266
Sam@aflo.com.au

PATRICK CHISHOLM
WORKSHOP FITOUTS AND INSTALLATIONS BDM
0499 994 027
Patrick.Chisholm@aflo.com.au

CLEANAWAY HILLSDALE