

Out with the Old and In with the New

Kaeser solution brings metal products plant serious green

PROBLEM: For many years, the compressed air system at a metal products plant continued to grow without taking the time to weigh the energy consumption and age of their current compressed air equipment. When production changes caused pressures to drop below acceptable levels, the plant simply added a new compressor to the existing system, without removing older compressors (averaging 15 years but ranging up to 36 years old).

SOLUTION: A comprehensive Kaeser Air Demand Analysis (ADA) was performed on the plant's air compressor system to help them understand the compressed air issues they currently had and make sound recommendations on system improvements. Kaeser also completed a leak detection audit, not only documenting the size and location of each leak but also quantifying the overall leakage cost to the facility.

RESULT: Kaeser identified approximately 75% potential compressed air system energy consumption savings. Taking Kaeser's recommendations, the leaks were fixed, the black iron piping was updated with Kaeser SmartPipe™, and a new compressed air plant design was installed, including a variable frequency drive (VFD) compressor and Sigma Air Manager (SAM) master controller. Pressure drop problems and high energy costs are a thing of the past — and the bottom line has never looked so green.



Operating Energy Cost for Previous System:	\$90,000 per year
Estimated Savings for Fixing Leaks:	\$51,000 per year
Estimated Savings from New Compressors and System Controls:	\$17,000 per year
TOTAL ANNUAL ENERGY SAVINGS:	\$68,000
Utility Incentive:	\$25,000



Are You Leaking Money?

Piping selection directly affects the three key elements of every compressed air system: flow, pressure, and air quality. Poor choices in pipe materials, diameter, and layout cause flow restrictions often resulting in significant pressure drop. Pressure drop is a main cause of increased energy consumption and underperforming tools and equipment.

Fast to install and easy to modify, Kaeser's SmartPipe™ is the most versatile compressed air distribution system available. Our unique combination of lightweight material and leak free connectors dramatically reduces installation costs as well as long term operating costs. The lightweight material reduces installation time and fatigue — even in overhead installations — and the push-to-fit connectors prevent air loss and wasted energy.

Stopping leaking money and go with the smart choice for your piping.

Call us today... you'll thank us tomorrow!



Kaeser's SmartPipe™ is a modular compressed air distribution system that offers lower installation costs and lower long term operating costs. Available in sizes from 1/2" - 6", it's the most versatile compressed air distribution system available.

Learn more: kaeser.com/smartpipe



Built for a lifetime.™

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Certified Management Systems



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