



BLAIR ENGINEERING

*Turboexpanders &
Turbocompressors*



be-turbomachinery.com

Turboexpanders / Turbocompressors / Aftermarket / Field Service

Located in San Luis Obispo, California, Blair Engineering is a specialized turbo-machinery manufacturer providing both fully-skidded new-unit packages custom built for your application, as well as aftermarket parts, redesign, service and support for all turboexpander brands. *Blair turboexpanders deliver big-OEM performance with small-company speed and service, get support from the people who built your machine.*

BLAIR ENGINEERING

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BLAIR ENGINEERING / BE TURBOMACHINERY

Your OEM for Turboexpanders and Turbocompressors



Turbo-Expanders	BE BLAIR	Others
Performance	<i>Ideal Performance for both expander and compressor based on the latest CFD and design philosophies.</i>	Lesser performance can be based on standard designs and outdated compressor design philosophies.
System	<i>Standard magnetic coupled lube oil pump.</i>	Conventional seal-coupled pumps offered as a standard.
Integration	<i>Fully integrated surge measurement.</i>	Requires customer to integrate and install separate surge measurement
Support & Service	<i>Direct access to design engineers; fast parts turns, quick field service on-site responses.</i>	Large global network; scheduling can be longer, support can be less accessible or specialized.

Turbo-Compressors	BE BLAIR	Others
Performance	<i>Highest efficiency, high backswept 3D impeller design, designed for VFD control for increased range.</i>	Lower efficiencies, limited ranges, 2D impeller designs and single speed.
Gearbox Design	<i>In-house designed gearbox, hydrodynamic bearings for both high speed pinion and bull gear. Designed for 20+ year service life.</i>	Outsourced gearboxes and in regeneration service, ball bearings are used, designed for just a 3 year service life.
Packaging	<i>Fully packaged, skid mounted and tested.</i>	May require 3rd party packaging, and in regeneration service, is supplied as loose individual components.
Support & Service	<i>Direct access to design engineers; fast parts turns, quick field service on-site responses.</i>	Large global network; scheduling can be longer, support can be less accessible or specialized.

TURBOEXPANDERS

Blair Engineering turboexpanders are designed for optimal performance of both the expander and compressor, using the latest CFD tools and advanced design philosophies. Every unit comes standard with magnetic-coupled lube oil pumps to eliminate seal issues and enhance long-term reliability. Integrated surge measurement is built in, providing safer operation and removing the need for costly add-ons. With proven technology and responsive support, Blair turboexpanders deliver the reliability and efficiency operators need to maximize plant performance.

Skidded Packages / Aftermarket Field Service / Design



TURBOCOMPRESSORS

Blair Engineering turbocompressors set the benchmark for performance and reliability. With backswept 3D impeller designs delivering high efficiency and wide turndown capability, our compressors are engineered for VFD control to maximize operating flexibility. Every unit features hydrodynamic bearings on both pinion and bull gear, designed for decades of continuous service. Delivered fully packaged and factory tested, Blair turbocompressors arrive ready for seamless installation and long-term dependable operation.

Skidded Packages / Design



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