

LASER COUPLING ALIGNMENT SERVICES

Precision Alignment for Pumps, Motors & Gearboxes

Consolidated Mechanical (CMI) provides specialized laser coupling alignment services using industry-leading digital tools and trained millwrights to maximize equipment reliability and reduce

unplanned downtime. Our service supports critical rotating assets across industrial, manufacturing, and food-processing facilities.



WHY ALIGNMENT MATTERS

Misalignment is one of the most common — and preventable — causes of rotating equipment failure.

- ⚡ Up to 50% of equipment damage is directly related to misalignment
- ⚡ Seal failures reduced by up to 65% with regular precision alignment
- ⚡ Proper alignment can reduce energy consumption up to 10% by eliminating coupling reaction forces
- ⚡ Pump repair frequency can drop 30%
- ⚡ Bearing life increases up to 50% when offset misalignment is minimized

WHAT WE OFFER

Our millwrights use the advanced **Pruftechnik ROTALIGN® Touch system** — the first cloud-enabled laser alignment platform — translating world-class technology into real, measurable improvements for your equipment

CMI Laser Alignment Capabilities

- ⚡ Precision alignment of pumps, motors, gearboxes, fans, blowers, machine trains
- ⚡ Vertical & horizontal machine alignment
- ⚡ Spacer, cardan, and flexible coupling alignment
- ⚡ Soft foot detection & correction to ensure stable mounting
- ⚡ Thermal growth compensation for systems that shift during operation
- ⚡ Live Move™ digital guidance for exact foot corrections
- ⚡ Digital before/after documentation with photos



Pruftechnik ROTALIGN® Touch system

INDUSTRIAL MARKETS WE SERVE



Industrial &
Manufacturing



Life
Science



Data Centers

These environments rely heavily on rotating equipment where precision alignment directly impacts throughput, safety, and uptime.

CUSTOMER BENEFITS



Reduced vibration and heat



Minimized unplanned downtime



**Increased bearing, seal,
and coupling life**



**Reliable, documented
alignment history**



Improved energy efficiency



**Optimal performance of
connected system components**

YOUR INDUSTRIAL ALIGNMENT PARTNER

CMI's millwright team brings deep experience across diverse industrial environments — backed by Limbach's national safety, training, and quality systems. We deliver fast, accurate, and reliable alignment service that protects your equipment and operating budget.