

# NVA – NOZZLE VISUAL ALIGNER

PRECISION ALIGNMENT  
FOR FIBER LASER CUTTING

## BENEFITS FOR LASER CUTTING OPERATIONS

- ✓ Achieve perfect nozzle centering
- ✓ Reduce cutting defects
- ✓ Maintain consistent cutting quality
- ✓ Extend nozzle life & improve productivity
- ✓ Simple setup for safe and fast operation



### High Precision Calibration

Optical system provides clear visual guidance for precise nozzle alignment



### Improved Cutting Quality

Ensures stable gas flow and consistent cutting performance



### Easy and Fast Operation

Simple to use, enabling nozzle calibration within minutes



### Safe and Reliable

Safe for operators, designed for worry-free maintenance



### KSEE FEATURES

 **High Precision**

+6010-290 8264



[www.dynaweld.com.my](http://www.dynaweld.com.my)

**Go Automate, Go Simple**

# WHY NOZZLE ALIGNMENT MATTERS IN FIBER LASER CUTTING

## ✓ CORRECT ALIGNMENT



- ✓ Stable and symmetrical gas flow
- ✓ Optimal cut quality and speed
- ✓ Extended nozzle life  
Lower consumable cost



- ✓ **Laser Beam**  
Passes exactly through nozzle center
- ✓ **Gas Flow**  
Symmetrical around the beam
- ✓ **Cutting Speed**  
Machine can run at optimal cutting parameters ↓
- ✓ **Piercing Stability**  
Stable piercing with consistent results

## ✗ MISALIGNMENT



- ✗ Uneven and turbulent gas flow
- ✗ Rough edge slag, stable cutting
- ✗ Speed must be reduced to maintain quality
- ✗ Piercing becomes unstable



- ✗ **Misaligned Nozzle**  
Laser beam hits the side of nozzle
- ✗ **Cutting Quality**  
Rough edge and inconsistent cutting
- ✗ **Cutting Speed**  
Machine can run at optimal cutting parameters ↓
- ✗ **Nozzle Life**  
Nozzle burns or damage quickly



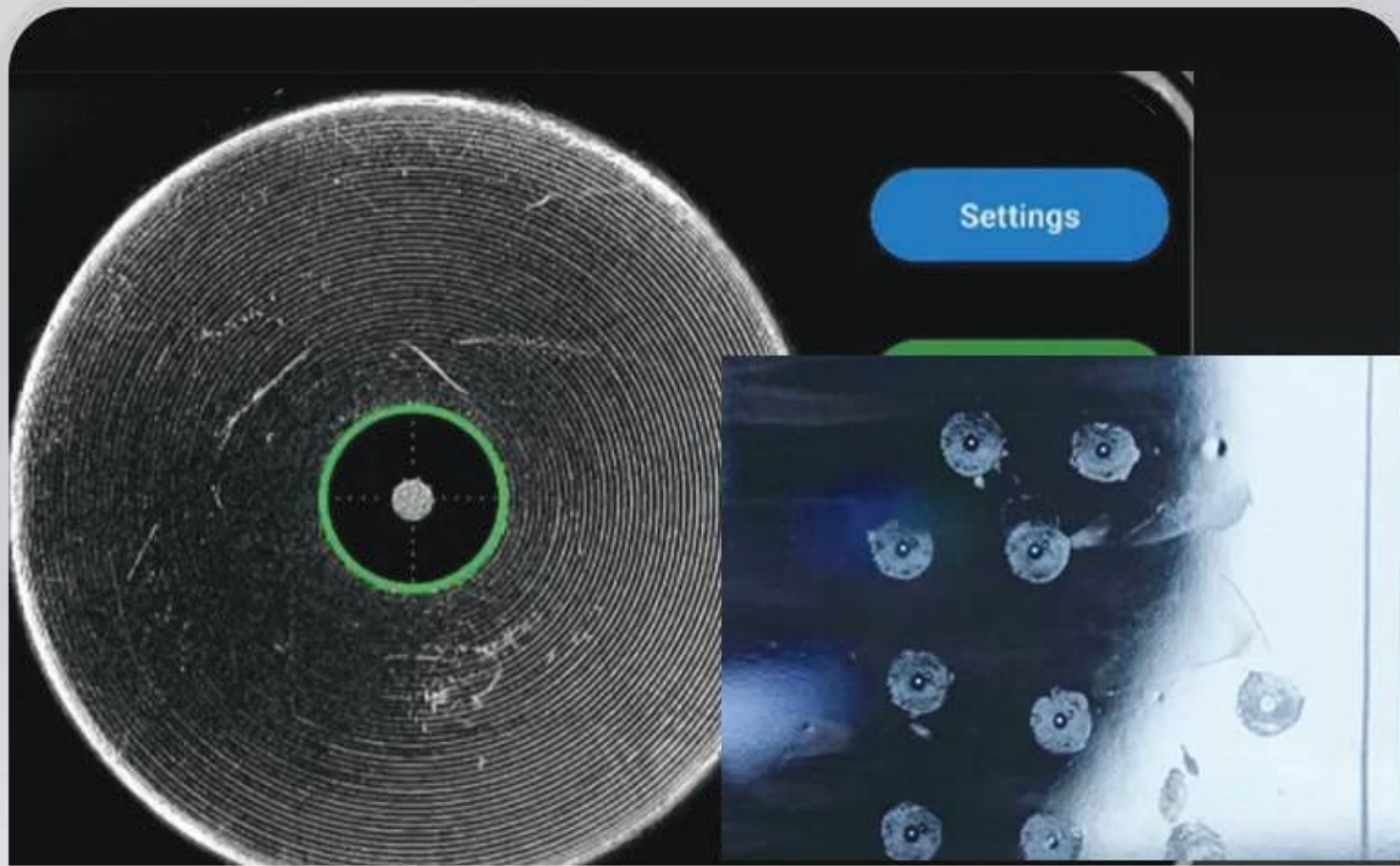
## NVA – NOZZLE VISUAL ALIGNER

Precision tool to ensure perfect nozzle centering.

## NVA – NOZZLE VISUAL ALIGNER

Precision tool to ensure perfect nozzle centering

**Precision isn't optional—  
it's the foundation of quality  
in laser processing.**



**Quickly improve efficiency**

Traditional coaxial calibration takes 3–5 minutes and depends on operator experience. Misalignment leads to slag, poor edge quality, and inconsistent results—especially in mass production.

# New VBA Visual Calibration

Reshaping the calibration process with AI vision technology and high-precision circle fitting algorithms

Achieve a dual improvement in accuracy and efficiency for you.



## Real-time screen synchronization

