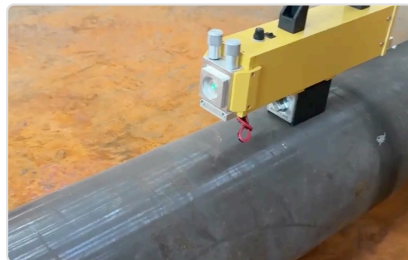
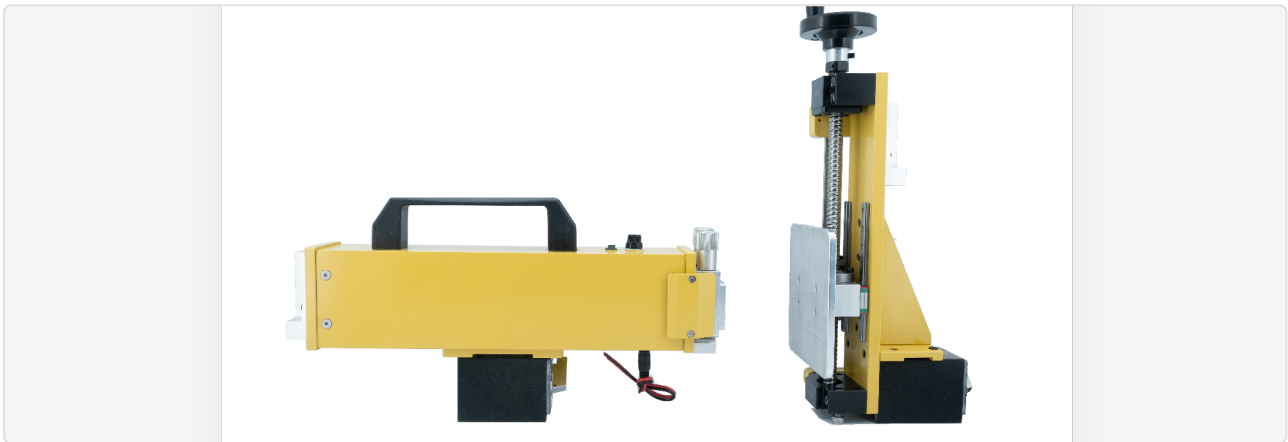


ABSOLUTE ALIGNMENT CONTROL

The **DADI PSDV1** is a specialized instrument exclusively designed for the pipe manufacturing and construction industry. Utilizing advanced laser alignment technology, it effectively resolves straightness deviation issues occurring during production, transportation, and welding. By clearly detecting pipe bending and providing precise data, it serves as a critical auxiliary tool for delivering high-standard construction projects.



HIGH-PRECISION LASER

Generates an absolute spatial straight line as a reference. Achieves an exceptional measurement accuracy of **0.5mm / 10m** with a clear 5mm laser spot.

MAGNETIC FIXATION

Features a dual-module design equipped with a powerful magnetic base clamp, allowing it to securely adhere to the outer wall of metal pipes for ultimate stability.

FULL-CYCLE QC

Ensures comprehensive quality control covering the entire lifecycle: from pipe manufacturing and welding to logistics, addressing thermal stress and backlog deformations.

DIGITAL CONSTRUCTION

Provides robust guarantees for underground pipe networks requiring strict straightness, offering convenient empirical data for digital tracking and 3D modeling.

SYSTEM SPECIFICATIONS

Technical Specs

Product Model	DADI PSDV1
Measuring Range	10 m (32.8 ft)
Measurement Accuracy	0.5 mm / 10 m
Laser Spot Size	5 mm / 10 m
Laser Class	Class 2
Laser Wavelength	635 nm (Visible Red)
Laser Power	1 mw
Power Supply	2 x AA Batteries

Working Mechanism

Measurement Principle	Laser Reference Line (Absolute Spatial Straight Line)
System Composition	Dual-Module Design (Laser Emitter Module + Target Receiver Module)
Fixation Method	Magnetic Fixation (Bottom-equipped magnetic base clamp)

Typical Applications

Energy Sector	Oil and Gas pipeline laying and alignment
Industrial Manufacturing	Precision industrial pipe manufacturing and assembly
Quality Inspection (QA/QC)	Pipe welding quality inspection / Thermal stress deformation detection
Logistics Inspection	Pipe transport receiving inspection / External force deformation assessment

STANDARD CONFIGURATION

- DADI PSDV1 Laser Emitter Module
- DADI PSDV1 Target Receiver Module
- Heavy-Duty Portable Protective Case
- 2 x AA Alkaline Batteries
- Operation Manual

OPTIONAL ACCESSORIES / SERVICES

- Special Pipe Diameter Adapters (Consult factory)
- Official Calibration Certificate Service
- Spare Target Plates

NOTE: The DADI PSDV1 significantly reduces manual inspection errors and accelerates the pipeline assembly process. Regular calibration is recommended for maintaining peak 0.5mm/10m accuracy in harsh industrial environments.