

## Tandem Microscopic Caliper

Two Microscopic Caliper feeler sections are connected to achieve 30 feelers reading in minimal ID.

When the call is for maximum radial coverage to assess corrosion in either a pipeline, a vertical wellbore or horizontal section with minimal ID, the Tandem Microscopic Caliper is Kinley's answer.

By sensing the internal wall surface with 30 equally distributed feelers, this caliper is delivering the industry's highest radial resolution in its class.

Immediate results are available when using **DigiCal**, the technology to interpret the acquired data at wellsite. The **DigiCal** provides state of the art output both on-screen and on-paper and the facility to transmit the data to one of the Kinley Data Analysis Centers.

### Applications:

- Small size tubular
- High-Temperature, High-Pressure environments
- Precision corrosion assessment
- Pipe deformation detection
- Pipe anomalies detection
- Time offset corrosion monitoring

Features:	Benefits:
Extreme temperature and pressure environment	This purely mechanical instrument can acquire data in virtually unlimited pressure and up to 600°F No temperature or pressure corrections are required so data quality is not compromised
Extensive track record	Leading the caliper industry since 1938, Kinley has amassed data in thousands of wells all over the world
Coiled tubing ready	Expensive electric line and surface readout equipment are not required. Virtually any conveyance method available at wellsite can be used
Electronic data	Besides the outstanding mechanical features, the data can be quickly analyzed at wellsite and even transmitted to analysis centers for further interpretation



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### Technical Specifications:

Service	H <sub>2</sub> S,	CO <sub>2</sub>
Working Pressure	Unlimited	
Tensile Strength	20,000 lbs	(9,072 Kg)
Max. Working Temperature	600°F	(315.5°C)
Maximum Tool O.D.	2.260"	(57.4 mm)
Make-up Length	103.046"	(261.74 cm)
Tool Weight	57 lbs	(25.8 Kg)
Minimum Restriction	2.35"	(59.7 mm)
Min. Bend Radius in 2.992" ID <sup>(1)</sup>	250 ft	(76.2 m)
Min. Bend Radius in 2.441" ID <sup>(1)</sup>	175 ft	(53.34 m)
ID Working Range	1.99"-3.500"	(50.5 mm-88.9 mm)
Tool Bottom to Bottom Feelers	47.67"	(1,210.7 mm)
Bottom Feelers to Top Feelers	34.33"	(872.1 mm)
Radial Resolution	1 Channel every 12°	
Vertical Resolution	Unlimited (Analog)	

<sup>(1)</sup>Actual tool configuration may change the minimum bend radius.

### Special Services:

The **DigiCal**. Technology  
 Pipe Deformation Report  
 3D Rendering

### Accessories:

Knuckle/Quick-Lock Orientor  
 Pad-Shoe Roller