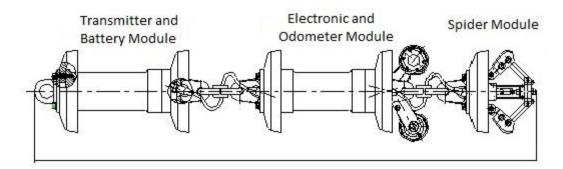
# ENGINEERING SERVICE

# 10" PS ENGINEERING CALIPER TOOL

## SPECIFICATION SHEET



#### **DATA SETS**

Sensing Fingers wiht Double Wheels 16

Gyros

Odometer Channels 2

### **OPERATIONAL**

Products All Liquids and Gases

Max. Pressure 120 bar (1740.45 psig)

Temp. Range -10° to 80° C

Recommended Tool Speed\* 0.1 to 3 m/s

Allowable Tool Speed 0.1 to 10 m/s

Minumum Back Pressure 5 bar (72 psig)

## **DIMENSIONS**

Length\*\* approx. 1500 mm (59.05 in)

Weight approx. 30 kg (66.13 lbs)

The below mentioned Featurens/Indications will be loceted (longitudinally) and identified the PS Engineering Caliper Tool.

- T-Pieces
- Valves
- Bends
- Girth Welds
- Dents
- Ovality
- Internal Diameter Changes

	1001 Attributes	
	Battery Capacity	700 hrs
	Active Range (Max. Distance)	600 km
	Odometer Resolution	47 mm
	Modules	3
PIPELINE GEOMETRY REQUIREMENTS		<u>ITS</u>
	Minimum Local Bore	25% of pipe O.D.
	Min. Bend Radius	1.5D for 90° Bend
	Min. ID in Straight Pipe	204 mm
	Accuracy of Measurement	
	Accuracy of Distance information	≤ 0.2mm from ref. Girth Weld
		or 0.1% of total distance
	Accuracy of Internal Dia. Changes	+/- 0.2%
	Accuracy of Defect Measurement	+/- 0.2%
	Axial Sampling	47 mm

Rev. Date: 05.01.2015

All given percentage values are related to the outer diameter (OD). The above mentioned accuracies depend on acceptable run conditions:

- Constant speed during inspection
- Clean pipe
- Pipebook given to PS Engineering evaluation department

When driving the tool with compressed air, the pipeline must have a back pressure of at least 5 bars / 0,5 MPA (depending on condition of the pipeline)

\* At tool speeds above 3 m/s, the girth weld indications become inaccurate due to dynamic overreaction of the sensing fingers. For best results we

At tool speeds above 3 m/s, the girth weld indications become inaccurate due to dynamic overreaction of the sensing fingers. For best results we recommend tool speeds between 0.1 and 1.5 m/s.

PS Engineering reserves the right to introduce technical changes and modifications without prior notice.

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\*\* For shorter lengths contact PS Engineering