

iPST: Inertial Pipeline Surveying Tool

Sensor Technology: Ring Laser Gyros, Servo Accelerometers



Application Examples:

- High accurate position determination of pipeline inspection tools.
- Motion control of pipeline pigs.
- Internal data storing for postprocessing using additional aiding information.
- North seeking capability, insensitive against magnetical distortion.
- Measuring while drilling (MWD) capability



Typical Technical Data:

Drift/Offset:	0.003 / 0.01 deg/h	< 100 μ g
Resolution:	0.0003 deg (1,1")	< 1 μ g
North seeking:	< 0.05 / 0.1 deg	
Time reference:	high precision clock on-board	
Interfaces:	3 odometers, GPS for initialisation	
Data storage:	up to 2 GBytes for 100 h mission duration	
Size:	diameter: \geq 120 mm or custom specific (pictures: pig for 10" pipeline)	