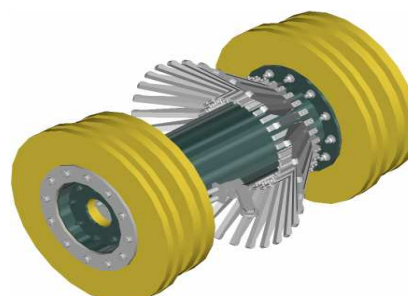
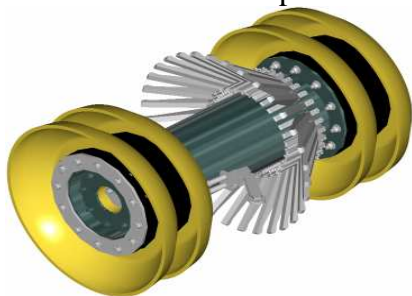


# Caliper Pig

## The Service

Used during pre-commissioning and commissioning operations for base-line geometry measurement, the Profile Multi-Channel Caliper Tool is a new generation of Caliper Tool, using multiple sensors to measure pipeline internal dimensions to high accuracy. Dents, ovality and changes in wall thickness can be easily detected and positioned. The tool can also be used during production phase, to assess on-line performance of the pipeline, also detecting scale or wax build-up.



## The Technology

### **Size Range**

Tools range from 8" to 60"

### **Onboard Sensors** Velocity/Distance

8 x Independent High-Resolution Caliper Sensors

### **Sensor Arms**

8" to 16" - each sensor is activated by a single lever arm running along the inside wall of the pipe.  
18" and above - each sensor is activated by more than one arm to provide better circumferential coverage.

### **Bore Passing**

20 to 25% bore restrictions (depending upon tool size and carrier vehicle)

### **Minimum Bend Radius**

3D across the range (can be made to suit 1.5D)

### **Sensitivity**

for features – 1% of nominal bore (+/- 2.5mm)

### **Odometer Accuracy**

+/- 0.1% of total distance. This performance may degrade under certain pipeline conditions

### **Scan Pitch/Speed**

Data capture from the sensors is triggered by distance pulses from the odometer system. One complete scan is collected every 6mm travel along the pipe at 0.5 to 2 meters per second  
Optimum

### **Range**

Maximum range can be up to 500Km. In standard configuration the maximum run time available is 80 to 240 hours. With an extended pressure vessel this can be increased to over 400 hours.

### **Operating Temperature**

Minimum 0°C, Maximum 60°C