

## Multi-Finger Calipers

Multi-Finger Calipers are used to give accurate dimensional information on tubulars and casings thus determining their condition.

Expro's MFC's are available to suit a wide range of tubular diameters, and can perform those measurements under extreme conditions.

Expro's electronic calipers deliver high accuracy and resolution and can be run either in memory mode on slickline, or real time on e-line. Data collected is analysed using MIPS – the state-of-the-art caliper analysis / visualization package.

Our mechanical calipers record data onto a chromed metal chart. This chart is then processed using Expro's unique 'DIGIcal' digital scanning unit, allowing the same high levels of analysis and data presentation available with our electronic calipers.

### Applications:

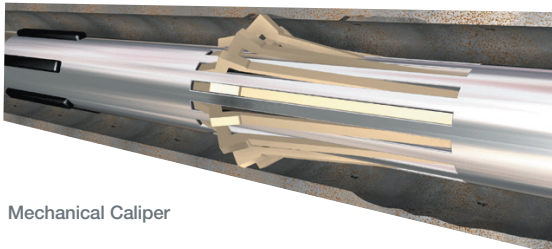
- Time lapse monitoring of erosion / corrosion
- Identification of scale build-up
- Identification of mechanical damage or deformation
- Accurate location of holes or anomalies
- Quantifying wear profiles e.g. drilling damage
- Perforation mapping

### Features:

- Mechanical tools available in 15 or 30 finger versions
- Electronic tools available in 24 or 40 finger versions
- Slickline, e-line and tractor compatible
- HPHT options available
- Advanced processing / analysis – 3D visualization
- Suitable for all well deviations
- Electronic tool data can be integrated with video - CalVid



Electronic Calipers

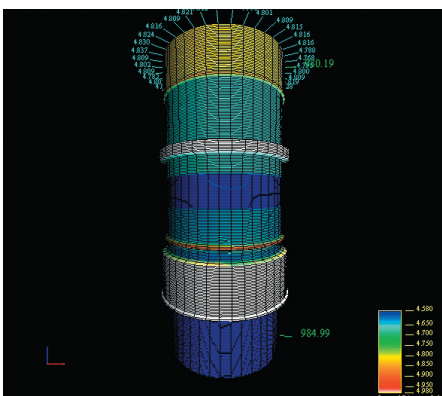
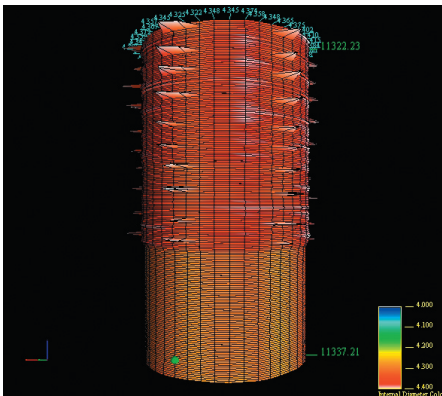


Mechanical Caliper

## Multi-Finger Calipers

Technical Specification:				
	15 Finger Mechanical	24 Finger Electronic	30 Finger Mechanical	40 Finger Electronic
Temperature Rating	550°F (287°C)	350°F (176°C)	550°F (287°C)	350°F (176°C)
Pressure Rating	n/a	15000psi (103MPa)	n/a	15000psi (103MPa)
Tool OD	1.48 – 11.64" (37.6 – 295.6mm)	1 <sup>11</sup> / <sub>16</sub> " (43mm)	3.625 – 10.25" (92 – 260.3mm)	2.75" (70mm)
Measurement Range - std		1.75 – 4.5" (45 – 114.3mm)		2.75 – 7" (70 – 178mm)
Measurement Range – ext	Up to max 14.01" (355.9mm)	1.75 – 7" (44.45–177.8mm)	Up to max 15" (381mm)	2.75 – 10" (70 – 254mm)
Length	54" (1.37m)	64.6" (1.64m)	148.5" (3.77m)	66" (1.68m)
Weight	35Kg (77lb)	9.4Kg (20.7lb)	80Kg (176.4lb)	31.75Kg (70lb)
Radial Resolution	24 degrees	15 degrees	12 degrees	9 degrees
Tool Resolution		0.002" (0.05mm)		0.002" (0.05mm)
Tool Accuracy		+/-0.02" (0.508mm)		+/-0.02" (0.508mm)
Vertical Resolution**	Continuous	0.083" (2.11mm)	Continuous	0.110" (2.79mm)
Max Logging Interval	15,000ft (4572m)	18,000ft (5483m)	15,000ft (4572m)	15,000ft (4572m)

\*\*When run at 30ft/min



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