



## SmartPlug Technical Questions & Answers

<u>Question</u>	<u>Answer</u>																																																
What is the product range of Smartplugs.	6-20mm (0.236" - 0.787") with M6x0.75 thread fitting. 15-280mm (0.590"-11.025") with M10x1 thread fitting.																																																
What is the working range of each SmartPlug, in other words the measuring range of the anvils.	0.15mm for the 6-20mm range 0.20mm for the 15-280mm range																																																
How far do the anvils extend past the working range.	0.05 to 0.15mm																																																
What diameter is the plug body manufactured to.	The following diametrical clearances to the bore being measured are allowed:- -0.02/-0.04mm (-.0007"/-.0016") 6-20mm M6 range -0.02/-0.05mm (-.0007"/-.0020") 15-37.1mm M10 range -0.03/-0.06mm (-.0011"/-.0024") 37.1-70.1mm M10 range -0.04/-0.07mm (-.0015"/-.0028") 70.1-280mm M10 range																																																
What criteria will ensure SmartPlug performance.	The outside diameter of the plug sets the positions of the measuring anvils in the bore and ensures repeatability. A shallow guide depth in the bore or a large difference between the plug outside diameter and the bore diameter will impair repeatability.																																																
Accuracy specification of SmartPlugs.	Repeatability: ≤ 1 micron Linearity: nominal ± 1%																																																
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<p>What contact tips are available.</p>	<p>Carbide – standard</p> <p>Ruby and ceramic are alternative options at an additional cost.</p>																										
<p>Are plugs interchangeable with Diatest</p>	<p>Yes</p>																										