Questionnaire for artificial diamonds

For a customized quotation please fill out this form. Your information will help us recommend the best solution for your application.

Client Address							
Company		Department		Web			
P.O. Box	Street						
 City Code	City			Country			
Contact Person		Tel.		E-mail			
Industry							
Application Description of the measurement (Ple	ase attach pictu	res or drawing	s if possible).				
		Measuring p	Measuring position of the pyrometer				
a ₂			From the top (1) Yes	□ No		
		From the side (2) Yes	No			
(a ₁)		(d ₄)	Other				
			Measuring distance	ce a 1=	mm b 1=	mm	
	· ·		Length of sighting	g tube a 2=	mm b ₂ =	mm	
		G	Diameter of sighti window (free ope		mm d 3=	mm	
	(b ₂)		Diameter of open	ing d ₂ =	mm d 4=	mm	
CVD with plasma							
Nature of the plasma	evo	olving CH4	other gas compo	unds			
Is the plasma produced by microwave	e?	i .	No				
Temperatures							
Temperature of the diamond	from _	to	°C				
Temperature of the support	from _	to	°C				
Temperature inside the furnace/plas	ma from <u> </u>	to	°C				
Dimension of the diamo	nd						
What is the size of the seed crystal at the beginning?		mm Number of seed crystals					
What is the expected size of the diamond at the end?	Width _	m	nm Depth	mm Heigl	ntmm		

Information on the process								
How long does the growing process take?		Dhours D c	_					
Speed of growth								
At what point do graphite deposits occur?		hours						
Is the crystal moving?	Yes	No						
Is the crystal permanently visible?	∐ Yes	∐ No						
How is the temperature measured so far?	☐ not at all	L Thermocouple	☐ Pyrometer					
	other							
Ambient temperature of the pyrometer		°C						
Material of the sighting window?	Quartz	Sapphire	Borosilicate					
	other							
Specification of the measured	d value recordir	na						
Measure at the beginning of the process		'9 						
before the first carbon/graphite deposition?	∐ Yes	∐ No						
Measure once the carbon/graphite deposition?		∐ No						
Type of pyrometer	portable	stationary						
Sighting device	☐ Through-the-lens	☐ Video camera	Laser spot light					
Signal processing								
Output signal/Digital interface	0/4-20 mA	RS 485	USB	IO-Link				
	other							
Should the measured values be recorded?	Yes	No						
Is a central data recording existing?	Yes	No						
Additional details or description								
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