

An instrument used for the rapid measurement of fibre diameter

In today's fast-paced industries, precise measurements play a pivotal role in ensuring product quality and consistency. Our advanced instrument, Diamscope, is a specialized instrument designed to deliver rapid and precise measurements of diameter (within the range of 0.2 to 80 um), length (less than 0.5mm) and curl. Diamscope is ideal for measuring glass, ceramic, synthetic and carbon fibres. Our instrument empowers your operations to reach new heights of productivity.

Accurate

Diamscope employs state-of-the-art technology, delivering precise and reliable measurements within the tightest tolerances. With a reproducibility of 0.2um and a precision of 0.1um.

Rapid Measurement

Save valuable time with Diamscope's typical measurement time of less than 1 minute. Real-time data that will propel your manufacturing processes to unprecedented levels of efficiency.

High Fibre Throughput

Diamscope excels in measuring thousands to tens of thousands of fibres per minute, enabling a comprehensive and accurate analysis of the distribution, thereby defining the precise characteristics of your product.

Self-Cleaning Capability

Equipped with non-contact measurement capabilities, Diamscope automatically clears the samples after each measurement, efficiently cleansing the area in preparation for subsequent measurements, eliminating the need for manual intervention by the operator.

No Operator Bias

Our user-friendly interface allows even inexperienced operators to effortlessly navigate the instrument and conduct measurements seamlessly. Experience a short learning curve and increased productivity from day one.

Versatile Applications

From textiles to manufacturing, Diamscope finds its place in a myriad of industries. Tailored to



be finds its place in a myriad of industries. Tailored to suit your specific needs, it adapts effortlessly to various types of fibres.

Robust Data Analysis

Unleash the full potential of your data with our comprehensive analysis tools. Gain valuable insights into trends and variations, enabling you to make informed decisions with ease.



The enclosed system utilizes a magnetic stirrer with no externally moving components. The measurement medium consists of chemically safe distilled water that does not react with the sample. Overall, the system is highly secure and poses no significant safety risks during usage.



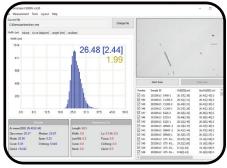
At Fibremetrics, our commitment to innovation drives us to continually refine our technology, ensuring that Diamscope, our automatic diameter measurement instrument stands at the forefront of the industry. With our unwavering dedication to excellence, we provide you with a powerful tool that empowers your business to thrive in the modern world.

Detailed analysis of each fil	ore	50 Comprehensive	50 Comprehensive calibration settings				Full Fibre Data									
vre: 6 of 825	×	Settings			Г									_		
Parameter Value R ^		Settings														
fin dam (um) 0.0		Calibration Selection	1	2												
xx diam (um) 50.0			-	1.00												
		Name	Factory	Cermaic	C.	516 v	$ X \vee f_X $	170.8								
(len (mm) 1.0		Date				A .	B	D	E	F	G	н	1.1			
		Data accumulation	Standard	Standard	1	Number	Diameter(Leng					PerPix D	Nameter alor	n		
x CV Along 10.000 x curve (deg/mm) 300.0		Fibre type	General	General	2	1	0.094	0.1 1	33 0	2.23	193.3 153.2	0	0.1			
x curve (deg/mm) Social >		Width calculation	Arithmetic mean	Arithmetic mean	4	3	4.69		5.1 0	2.55	146.5	13.24	5.01 1.6			
		Detection sensitivity	High	High	6	5	3.237		.86 0	2.7	198.6	15.16	4.16			
	Histogram bin size (default:0.2) (um)	0.20	0.20	7	6	3.301 0.136	0.08 22	.29 0 .71 0	2.37	158 210.1	15.19	3.17 0.08				
		Diam slope	3.1238	3.4416	9	8	1.749	0.05 169	.48 0	3.81	185.4	16.18	1.34			
1.8 2.4 3.0 3.6 4.2		Diam ofs	-3.4898	-3.1791	10	9	3.382	0.07 150	.87 0	2.87	164	14.26	3.37			
under of Revens nangen 821 magnetic: Clamanoc/Pathrr/BC may21/calibration/captare - L5/ma_1984ay2023_110816078.org Jam: 3.11am, Hen: 0.38mm, adjevalong: 0.2010.065, orv. 193.8, foc: 2.58, cent.t: 145.1, https: 12.91 under pits: 42/128, paxOfs(first centOfs): 135341	Next	Diam volume slope	0.2670	1.0000												
		Diam volume ofs	1.1082	0.0000												
	Previous	Compensation factor (CF)	1.0000	1.0000												
														-		
														-		





3. Results



Specification	Diamscope					
Diameter range	0.2 to 80 um					
Precision of mean	0.1 um					
Reproducibility	< 0.1 um					
Typical measurement time	< 1 minute					
Operating system	Microsoft Windows software					
Measurement parameters	Diameter, length, curl					
Dimensions	36 x 19 x 26 cm					
Power requirements	120 or 240 V AC, 50/60Hz					
HTC / HS code	90314990 / 9031					



🔀 info@fibremetrics.com

www.fibremetrics.com/www.cottonscope.com