LOTOS - Technical Data

Device name	LOTOS LS-82	LOTOS LS-136	LOTOS LS-200	LOTOS CR	LOTOS LSi-136	LOTOS LSi-200	LOTOS LC-100	LOTOS LC-200	LOTOS LT-80	LOTOS LT-200	LOTOS LT-400
Sample presentation											
Measuring sensor	3D-Laser sensor	3D-Laser sensor	3D-Laser sensor	Point sensor	3D-Laser sensor	3D-Laser sensor	3D-Laser sensor	3D-Laser sensor	Laser sensor	Laser sensor	Laser sensor
Measuring range Dimension from … to … [1]	**Variable between 45 … 127 mm and 318 … 400 mm**	**Variable between 0 … 136 mm and 200 … 336 mm**	**Variable between 0 … 192 mm and 200 … 392 mm**	**Variable between 70 … 110 mm and 360 … 400 mm**	**4 … 140 mm**	**56 … 248 mm**	**Variable between 0 … 100 mm and 550 … 650 mm**	**Variable between 0 … 200 mm and 350… 550 mm**	**Variable between 115… 195 mm and 670 … 750 mm**	**Variable between 0 … 200mm and 530 … 730 mm**	**Variable between 0 … 400 mm and 310… 710 mm**
Repeat accuracy [2]	**1 µm**	**2 µm**	**4µm**	**0,3 µm**	**2 µm**	**4µm**	**12 µm**	**16 µm**	**6 µm**	**10 µm**	**20 µm**
Measuring range Dimension / Diameter (Difference between largest and smallest dimension of the measured object)	82 mm	136 mm	192 mm	40 mm	136 mm	192 mm	100 mm	200 mm	80 mm	200 mm	400 mm
Measuring height range (with one component rotation)	36 mm	75 mm	65 mm	0,001 mm	75 mm	65 mm	70 mm	120 mm	0,001 mm	0,001 mm	0,001 mm
Throughput related to object height 15 mm [3]	4,5 s	4,5 s	4,5 s	18 s [4]	4,5 s	4,5 s	4,5 s	4,5 s	18 s [4]	18 s [4]	18 s [4]
Throughput related to object height 60 mm [3]	6,5 s	4,5 s	4,5 s	63 s [4]	4,5 s	4,5 s	4,5 s	4,5 s	63 s [4]	63 s [4]	63 s [4]
Max. Measuring object height	500 mm										
Throughput for single target cross-section	4,5 s										
Linearity - Dimension	±1-6 µm	±2-12 µm	±8-22 µm	±0,25-1,5µm	±2-12 µm	±8-22 µm	±12-20 µm	±15-30 µm	±3-8µm	±5-12 µm	±12-20 µm

1) Specified values = twofold radial dimension as seen from the centre of the measured object
2) The mean value determined at the reference distance after 4096 measurements on the KoCoS reference standard.
3) Examples with rotation speed of 360°/s
4) Example with height resolution 1 mm - resolution is adjustable