

# dLab 2

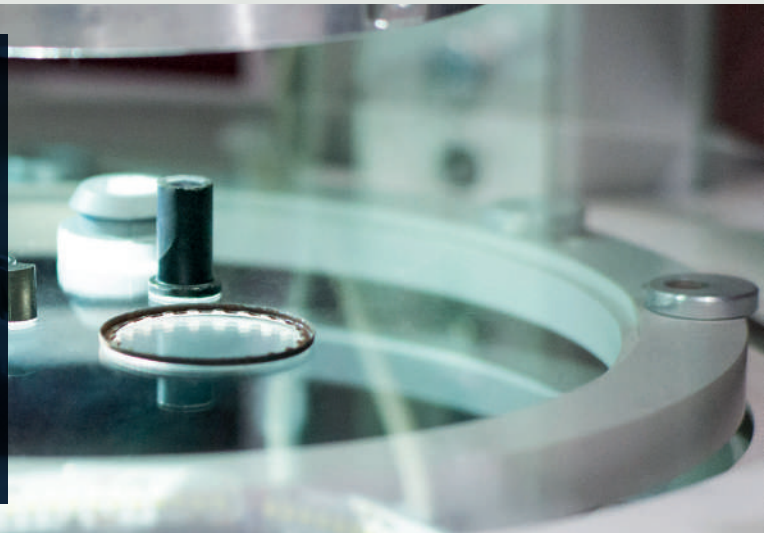
OPTICAL 2D AND THICKNESS  
MEASURING INSTRUMENT FOR  
O-RINGS AND TECHNICAL PARTS

**PIECES**

O-RING  
TECH. PART

**DIMENSION**

1 MM ID – 124 MM OD



**DIMENSIONAL  
CONTROL**

## DESCRIPTION

THE INSTRUMENT CONSISTS OF A TELECENTRIC DIMENSIONAL CAMERA AND A THICKNESS MEASURING SYSTEM.

2D MEASURING: THE OPERATOR PLACES THE PARTS TO BE INSPECTED UNDER THE CAMERA WHICH PROVIDES THE IMAGE WITHOUT DISTORTION.

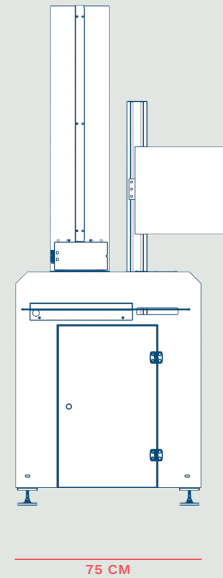
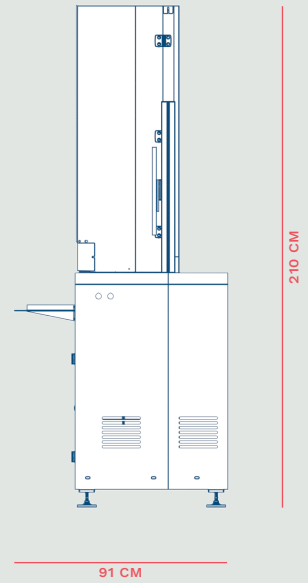
THICKNESS MEASURING: THE OPERATOR PLACES THE PARTS ONTO A MOVING PLATE THAT MOVES THROUGH A LASER BEAM.

THE ACQUIRED DATA IS TRANSFERRED AND AVAILABLE TO THE OPERATOR THANKS TO A GRAPHICAL INTERFACE.



PIECE	<b>TYPE</b>	ELASTOMERS, RIGID MATERIALS
	<b>COLOUR</b>	ALL, NON-TRANSPARENT
	<b>TYPICAL PIECE</b>	O-RING, TECH. PART
	<b>CHARACTERISTICS</b>	CLEAN, FREE OF DUST OR PARTICLES THAT MAY ALTER THE PART'S PROFILE
	<b>MAX WEIGHT</b>	NA
	<b>SIZE</b>	1 MM ID – 124 MM OD
	<b>CROSS SECTION/HEIGHT</b>	0.5-30 MM
VISION	<b>RESOLUTION</b>	0.064 MM/PIXEL
	<b>FRAME FIELD</b>	130 MM
	<b>CAMERA RESOLUTION</b>	5 MEGAPIXEL
PERFORMANCES	<b>CYCLE TIME</b>	1 PC/SEC
	<b>REPEATABILITY</b>	± 0.01 MM
	<b>WORKING TEMPERATURE</b>	NA
	<b>ACCURACY</b>	± 0.021 MM
	<b>SINGLE PHASE POWER SUPPLY</b>	230 V – 50 HZ
	<b>MAX INSTALLED POWER</b>	0.5 KW
	<b>ELECTRICAL PROTECTION</b>	IP 44
	<b>AVERAGE CONSUMPTION</b>	0.02 KW
LASER	<b>RESOLUTION</b>	(A) 0.5 µM, (B) 1.5 µM
	<b>WORKING FIELD</b>	(A) 0.1 - 8 MM (B) 0.1 - 16 MM
	<b>MEASURING STEP</b>	0.01 MM
	<b>LINEARITY</b>	(A) 8 µM, (B) 16 µM

## DIMENSION



## CHARACTERISTICS



STATISTIC AND  
REPORT



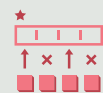
TRACEABILITY OF  
PRODUCTION LOTS



REMOTE  
MANAGEMENT



M.E.S.  
COMPATIBLE



CUSTOMIZABLE FOR  
SPECIAL PROJECTS