



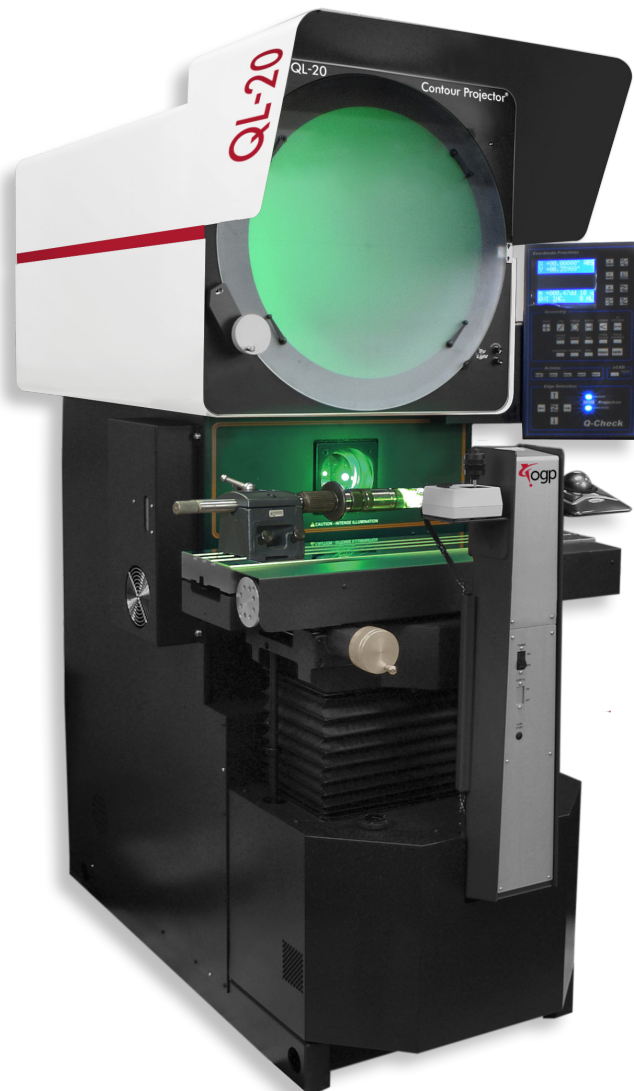
## QL-20™ Contour Projector®

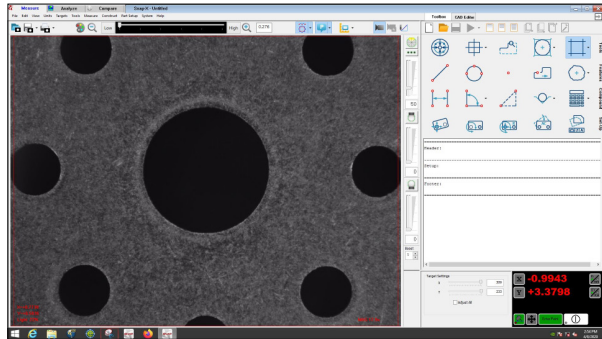
The **QL-20** optical comparator is a precision instrument designed for the shop floor. QL-20 has extensive standard features and a range of options that allow you to configure a system to meet your specific measurement needs.

The eye level 20 inch diameter screen and conveniently located DRO make measurements fast and easy.

- Includes high brightness TruLight® LED profile illumination with variable intensity control.
- High load capacity, nickel-plated worktable easily accommodates large, heavy machined parts and fixtures.
- Optional VidiProbe video measurement and eCAD® virtual chart gage systems offer full automation.

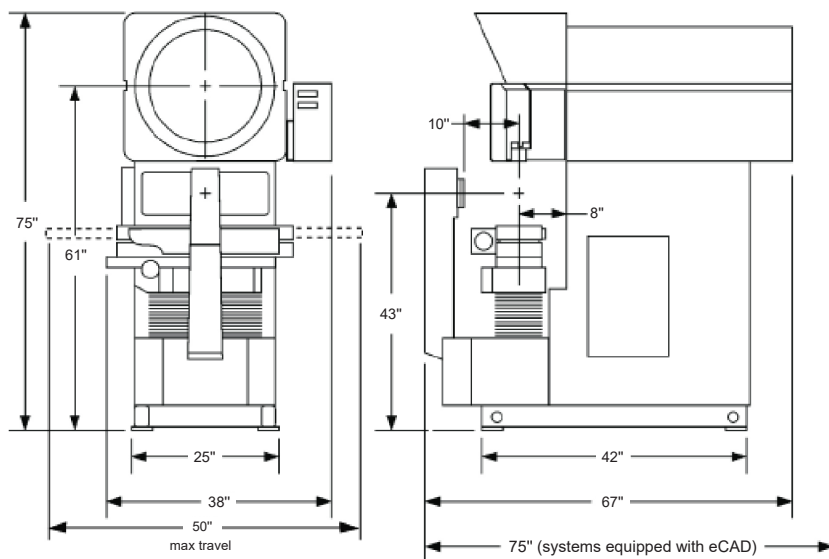
### High Capacity Optical Comparator





Transform the traditional optical comparator into a fully automatic inspection system with optional VidiProbe and Measure-X® software. The video camera is internally mounted to enable simultaneous measurements using both the analog comparator screen and the digital video with Measure-X.

# QL-20™ Contour Projector®



System Weight: 1,660 lb  
Shipping Weight: 2,350 lb

	Standard	Optional
<b>XY Travel Range</b>	15" x 9"	15" x 10", 18" x 9", 18" x 10"
<b>Helix Angle Range</b>		± 7.5° with pivoting worktable assembly and zero stop
<b>Z Focus Travel</b>	3" with precision fine adjustment	
<b>Throat Clearance</b>	19"	
<b>XY Scale Resolution</b>	0.00004"	0.00002"
<b>XY Drive System</b>	Motorized, DC servo, with variable speed joystick and X & Y axis manual fine adjustment	
<b>Worktable</b>	Heavy duty cast iron nickel plated worktable, 32" x 8"	
<b>Recommended Maximum Load Capacity</b>	250 lb	
<b>Optical System</b>	Telecentric with upright, un-reversed image	
<b>Optical Options¹</b>		Adjustable direct projection iris; Swing-away lamphouse; Overscreen Fresnel lens; Surface concentrator (requires optional surface light); VidiProbe video automation package; eCAD™ for electronic CAD overlay and virtual charts
<b>Edge Detection²</b>		Projectron® internal automatic edge detection
<b>Screen</b>	20" diameter ground glass screen, with integral hood, 90° centerlines and clips for mounting standard overlay charts	
<b>Protractor</b>	Screen rotation protractor with ± 360° motion, digital display, 0.01° or 1' display	
<b>Working Distance</b>	8.4"	
<b>Lens</b>		10x, 20x, 31.25x, 50x, 62.5x, 100x
<b>Lens Mount</b>	Fixed, one position mount	Internal, motorized 5 position lens turret with automatic magnification identification
<b>Illumination</b>	Green LED profile light with continuously variable intensity control	White brightfield LED through-the-lens coaxial surface light with continuously variable intensity
<b>DRO</b>	Q-Check®	
<b>Software</b>		Measure-X Measure and Compare (included with VidiProbe) Measure-X Analyze (optional with VidiProbe) Measure-X Offline OGP® EVOLVE® SPC
<b>Accessories</b>		Rotary indexer; Overhead light shield; Fixture and calibration reticles; Overlay charts
<b>Power Requirements</b>	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1200 W	
<b>Safe Operating Environment</b>	15-30 °C, non-condensing	

¹Surface concentrator for use with lenses of 50X magnification and higher

²Projectron intended for use with lenses of 50X magnification and lower



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