



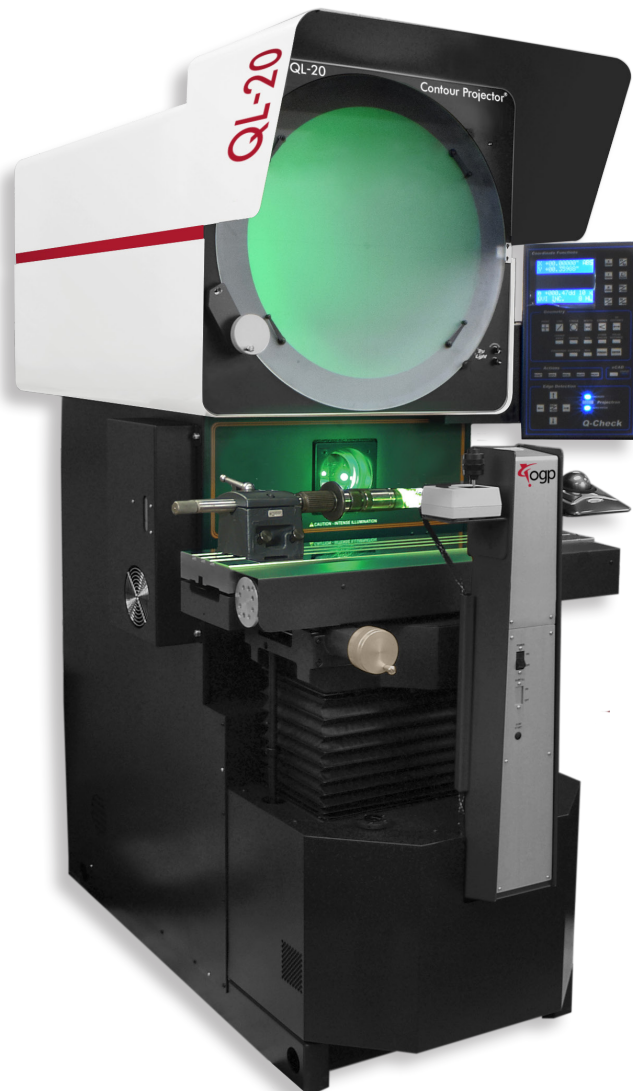
QL-20™ Contour Projector®

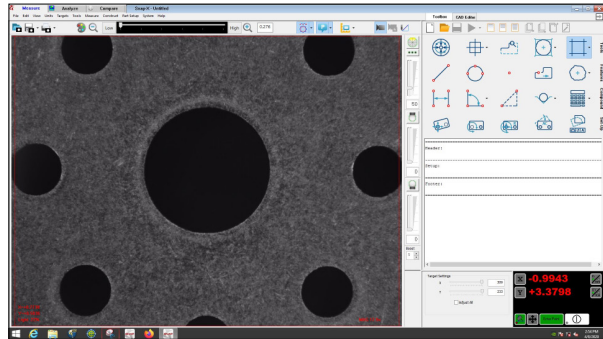
The **QL-20** optical comparator is a precision instrument designed for the shop floor. QL-20 has extensive standard features and a range of options that allow you to configure a system to meet your specific measurement needs.

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.

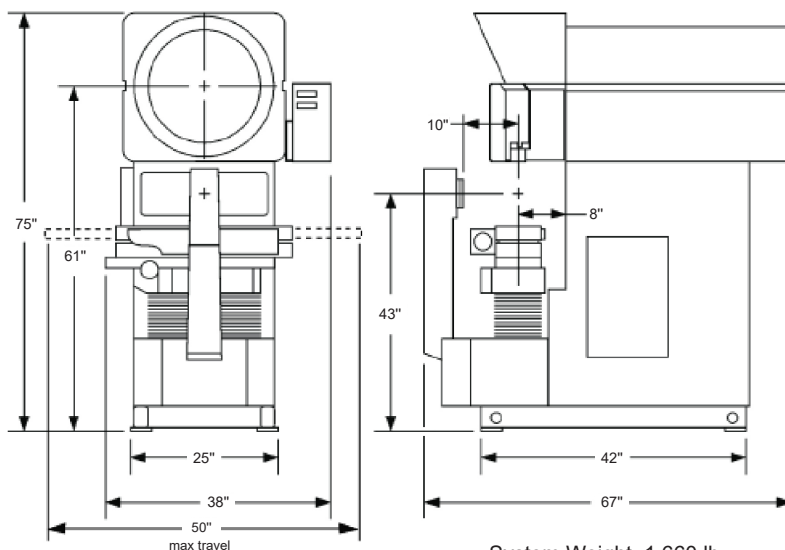
High Capacity Optical Comparator





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 |
|--|--|--|
| XY Travel Range | 15" x 9" | 15" x 10", 18" x 9", 18" x 10" |
| Helix Angle Range | | ± 7.5° with pivoting worktable assembly and zero stop |
| Z Focus Travel | 3" with precision fine adjustment | |
| Throat Clearance | 19" | |
| XY Scale Resolution | 0.00004" | 0.00002" |
| XY Drive System | Motorized, DC servo, with variable speed joystick and X and Y axis manual fine adjustment | |
| Worktable | Heavy duty cast iron nickel plated worktable, 32" x 8" | |
| Recommended Maximum Load Capacity | 250 lb | |
| Optical System | Telecentric with upright, unreversed image | |
| Optical Options¹ | | Adjustable direct projection iris; Swing-away lamphouse; Overscreen Fresnel lens; Surface concentrator (requires optional surface light); VidiProbe video automation package |
| Edge Detection² | | Projectron® internal automatic edge detection |
| Screen | 20" diameter ground glass screen, with integral hood, 90° centerlines and clips for mounting standard overlay charts | |
| Protractor | Screen rotation protractor with ± 360° motion, digital display, 0.01° or 1' display | |
| Working Distance | 8.4" | |
| Lens | | 10x, 20x, 31.25x, 50x, 62.5x, 100x |
| Lens Mount | Fixed, one position mount | Internal, motorized 5 position lens turret with automatic magnification identification |
| Illumination | Green LED profile light with continuously variable intensity control | White brightfield LED through-the-lens coaxial surface light with continuously variable intensity |
| DRO | Q-Check® | |
| Software | | Measure-X Measure and Compare (included with VidiProbe) Measure-X Analyze (optional with VidiProbe) Measure-X Offline EVOLVE® SPC |
| Accessories | | Rotary indexer; Overhead light shield; Fixture and calibration reticles; Overlay charts |
| Power Requirements | 100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 1500 W | |
| Safe Operating Environment | 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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