



OGP QL-30

High Capacity Contour Projector

	mm	in
Screen diameter	760	30
X travel	380	15
X travel extended (opt.)	450	18
Y travel	230	9
Worktable length	815	32
Worktable depth	200	8
Focus travel	75	3
Constant working clearance	215	8.4
Throat clearance	465	18.4

Large screen,
high load capacity,
small footprint
optical comparator

The OGP® QL-30™ Contour Projector® offers the most compact footprint of any 30" in-line comparator. When you need a large, bright image, but don't have a lot of space, look to the QL-30. It has more than 4½ times the image area of systems with a 14" screen, and a full 3" field of view at 10x. And the QL-30 horizontal optical system delivers a fully corrected image, near zero distortion, and superb image contrast.

Like other members of the QL family, the QL-30 excels in ergonomics. You'll find controls at natural positions for fatigue-free operation. The bright screen and digital readout displays are conveniently eye-level, and the in-line design provides easy access to mounted parts and fixtures.

- True telecentric design for fully corrected images, guaranteed image accuracy, and image size that doesn't change with focus setting.
- Projection lenses with constant working distance. Measure large parts, even at the highest magnification.
- Unparalleled screen brightness and flat field. Measure with confidence, even at the extreme edges of the screen.
- Heavy duty, high precision, cast iron/nickel plated worktable, with 250 kg (550 pound) capacity, and DC servo motor drive with joystick control, for smooth, quiet, fast movement of the worktable.
- Extra value options include internally mounted Projectron™ edge detection, and 32 bit SmartCheck® for Windows™ measurement software.

Technical Specifications

■ Standard ■ Optional

<ul style="list-style-type: none"> ■ Screen size: 760 mm (30") diameter ■ Screen type: Ground glass with 90° centerlines and clips for mounting standard overlay charts ■ Protractor: Screen rotation protractor with ±360° motion, digital display, thermal compensation function, 0.01° or 1' display ■ Optical system: Telecentric, horizontal, with fully corrected image, constant working clearance 215 mm (8.4") ■ Lenses: Telecentric projection lenses; 10x, 20x, 31.25x, 50x, 62.5x, 100x ■ Lens mount: One-position, fixed ■ Five position, motorized turret, with automatic magnification sensing ■ Throat clearance: 465 mm (18.4") ■ Illumination: 150 W tungsten halogen, direct projection, with green filter ■ 200 W mercury arc direct projection, and/or 200 W mercury arc surface
<ul style="list-style-type: none"> ■ Travel: XY - 380 x 230 mm (15" x 9"); Focus - 75 mm (3"), with precision fine adjustment ■ Extended X axis travel - 450 mm (18") ■ XY motion: Precision mechanical bearing slides attached to heavy duty cast worktable support structure ■ XY positioning: Motorized, DC servo, with variable speed joystick and X axis fine adjustment knob ■ XY scale resolution: 1.0 μm (0.00004") ■ Worktable: Nickel plated iron with 3 fixturing slots, 815 x 200 mm (32" x 8"), 250 kg (550 lb) load capacity ■ Helix motion: ±7.5° with pivoting worktable assembly and zero stop ■ Dimensions (approx DWH): 1800 x 1070 x 2030 mm (71" x 42" x 80"), 775 kg (1700 lb)
<ul style="list-style-type: none"> ■ Geometric measuring processor: Includes (2) 16 digit by 2 line LCDs and 25 key membrane panel with functions for inch/millimeter, Cartesian/polar, decimal degrees/dms, XY zero, skew alignment, absolute/incremental, point, distance, angle, width, radius, diameter, intersection, included angle, size, location, straightness, roundness, and serial and parallel interfaces ■ Software: SmartCheck®, GageFit™, SmartReport® Plus, QC-Calc™
<ul style="list-style-type: none"> ■ Power requirements: 115 vac, 50/60 Hz, 1 φ, 2500 W ■ Rated environment: 20-23° C (68-75° F), 30-80% humidity (non-condensing), vibration <0.005g below 10 Hz ■ Operating environment: 15-30° C (59-86° F)
<ul style="list-style-type: none"> ■ XY accuracy (worktable linear): Within 8 μm (0.0003") total band over full travel*
<ul style="list-style-type: none"> ■ Projectron™ internally mounted automatic edge detection ■ Glass and plastic overlay charts; custom electronic chart gages via GageFit ■ Overscreen Fresnel lens ■ Surface illumination concentrator (for 50x and above lenses) ■ Adjustable iris assembly, adjustable slit iris assembly ■ Overhead curtain ■ Fixtures and calibration accessories ■ Service and support contracts
<ul style="list-style-type: none"> ■ Warranty: Full on-site warranty first year, parts only second year (North America only)

*Applies to thermally stable system in rated environment, checked at factory with 50x lens. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy.



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