display protect solutions
cover lenses for electronic devices

PRECISION **DISPLAY COVER LENS** SOLUTIONS

BESPOKE POLYMER AND GLASS COVER LENSES
FOR DEMANDING ELECTRONIC APPLICATIONS

- HIGH PERFORMANCE MATERIALS
- SPECIALISED SURFACE COATINGS
- PRECISION CNC MACHINING
- PRECISION SCREEN PRINTING
- OPTICAL LAMINATION
- QUALITY ASSURANCE

ABOUT DPS

SPECIALIST COVER LENS MANUFACTURING

Display Protect Solutions Ltd (DPS) is a UK-based specialist manufacturer of precision polymer and glass cover lenses for electronic displays.

Combining extensive industry experience with advanced materials and specialist manufacturing processes, we deliver bespoke cover lens solutions tailored to our customers' technical, functional and aesthetic requirements.

Our in-house capabilities include precision CNC machining, screen printing and optical lamination, supported by a comprehensive range of high-performance substrates and specialist surface coatings.

From initial design and prototyping through to production, DPS provides a flexible, responsive and technically focused service, working closely with customers to achieve the right solution for their application.

INDUSTRY EXPERIENCE

Specialist knowledge in display cover lens materials and processes.

COMPLETE SOLUTIONS

From materials and coatings to precision machining, printing and lamination.

FLEXIBLE MANUFACTURING

Supporting prototypes, small batches and repeat production.

QUALITY FOCUSED

Documented inspection and quality control processes to support reliable components.

HIGH-PERFORMANCE MATERIALS

ENGINEERED FOR YOUR APPLICATION

Display Protect Solutions offers a comprehensive range of high-performance polymer and glass substrates for precision display cover lenses.

From impact-resistant polycarbonate and optically clear acrylic to specialist glass solutions, we help customers select the most appropriate material for their mechanical, optical and environmental requirements.

QUICK COMPARISON

Property	PC	PMMA	GLASS
Impact resistance	★★★★★	★★★	★★
Optical Clarity	★★★★	★★★★★	★★★★★
Abrasion resistance*	★★★	★★★★	★★★★★
UV resistance	★★★	★★★★★	★★★★★
Lightweight	★★★★★	★★★★★	★★★
Chemical resistance	★★	★★★	★★★★★

FIRE PERFORMANCE

Flame-retardant polymer grades, including UL 94 rated materials, are available where required by the application.

Indicative comparison — performance varies by grade, thickness and treatment.

*Polymer performance can be significantly improved with specialist hard coatings.

EXPLORE MATERIALS

POLYCARBONATE

Excellent impact resistance and durability, making it ideal for demanding industrial, transportation and electronic display applications.

ACRYLIC

Excellent optical clarity, surface appearance and weathering performance for applications where visual quality is critical.

GLASS

Premium optical appearance, surface hardness and dimensional stability for demanding display applications.

SPECIALIST SURFACE **COATINGS**

ENHANCED PERFORMANCE THROUGH ADVANCED COATING TECHNOLOGIES

Surface performance plays a critical role in the durability, appearance and usability of electronic displays.

Through our specialist coating partners, DPS offers hard coating, anti-glare, anti-reflective and functional surface treatments to enhance protection, improve visibility and extend product performance in demanding applications.

HARD COATING (HC)

Improved abrasion and chemical resistance for enhanced surface durability.

ANTI-GLARE (AG)

Reduces distracting reflections and improves display visibility in bright environments.

ANTI-REFLECTIVE (AR)

Minimises surface reflections to improve optical transmission and display clarity.

ANTI-FINGERPRINT (AF)

Oleophobic surface treatments that reduce fingerprint contamination and simplify cleaning.

ANTI-STATIC / ESD

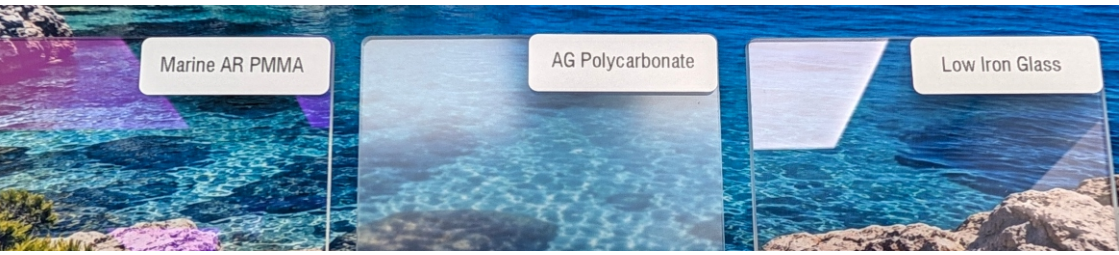
Specialist coatings designed to dissipate electrostatic charge in sensitive electronic applications.

SPECIALIST FUNCTIONAL COATINGS

Additional solutions including UV protection, antimicrobial treatments and application-specific surface finishes.

EXPLORE COATINGS

TAILORED COATING SOLUTIONS FOR DEMANDING DISPLAY APPLICATIONS



PRECISION CNC MACHINING

PRECISION ENGINEERED. MANUFACTURED TO SPECIFICATION

DPS provides specialist CNC machining of optical-grade polycarbonate (PC), acrylic (PMMA) and other engineering polymers for bespoke display cover lenses.

Using high-speed CNC technology, we manufacture precision components with clean, high-quality edges, accurate profiles and repeatable dimensional control.

Our flexible manufacturing approach supports everything from initial prototypes and development samples to small batches and repeat production.

COMPLEX PROFILES

Precision machining of intricate shapes, external profiles and internal cut-outs.

HOLES & APERTURES

Accurate machining of mounting holes, fixing points and functional apertures.

REBATES AND POCKETS

Controlled-depth milling of recessed features, rebates and precision pockets.

ENERGY DIRECTORS

Precision-milled energy director features for compatible ultrasonic welding applications.

EDGE FINISHING

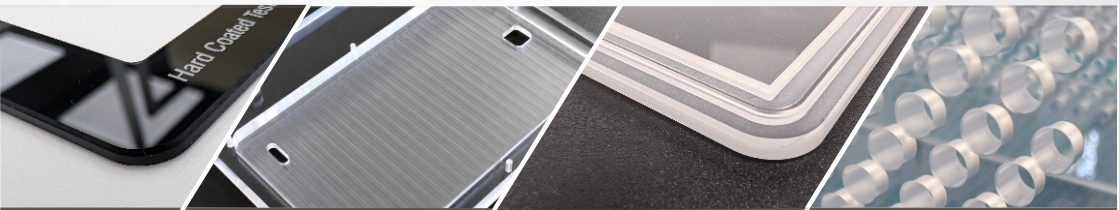
Optimised machining processes for clean, consistent, high-quality polymer edges.

PROTOTYPE TO PRODUCTION

Flexible manufacturing supporting development samples, small batches and repeat production.

EXPLORE CNC MACHINING

PRECISION MACHINING SOLUTIONS FOR COMPLEX AND DEMANDING APPLICATIONS



PROFILING | POCKET & REBATE MILLING | ENERGY DIRECTORS | SPIRAL PROFILING

PRECISION
SCREEN PRINTING

ACCURATE REGISTRATION. DURABLE, HIGH-QUALITY PRINTED FINISHES.

High-quality screen printing is essential to the appearance, functionality and performance of electronic display cover lenses.

Our in-house printing capabilities combine precision semi-automatic equipment, high-tension screens and carefully selected ink systems to produce sharp graphics, consistent colours and accurately registered features.

From decorative borders and corporate branding to functional symbols and display apertures, we deliver durable printed finishes tailored to the substrate, coating and application requirements.

MULTI-COLOUR PRINTING

Precision printing of single and multiple colours for decorative and functional finishes.

FINE DETAIL & DEFINITION

Sharp reproduction of logos, graphics, text, symbols and precision display features.

PRECISION REGISTRATION

Accurate alignment of printed features to component profiles and display apertures.

REVERSE SURFACE PRINTING

Protected decorative graphics applied to the rear surface of transparent cover lenses.

SPECIALIST INK SYSTEMS

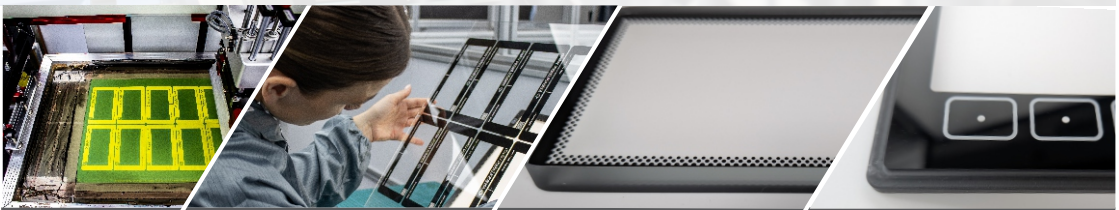
Carefully selected inks for adhesion, durability and substrate compatibility.

PROTOTYPE TO PRODUCTION

Flexible printing quantities from development samples to repeat production batches.

EXPLORE
SCREEN PRINTING

PRECISION PRINTED FINISHES FOR DEMANDING DISPLAY APPLICATIONS



SCREEN PREP | PRECISION PRINTING | REVERSE PRINTING | FINISHED COVER LENSES

PRECISION
OPTICAL LAMINATION

CONTROLLED APPLICATION. CONSISTENT OPTICAL QUALITY.

Optical lamination plays a vital role in the integration of functional films, adhesives and touch sensors with precision-manufactured display cover lenses.

Our controlled roller lamination process enables the accurate application of optical films, pressure-sensitive adhesives and PCAP touch sensors, with careful attention to alignment, cleanliness and optical clarity.

By combining specialist materials with controlled processing techniques, we create high-quality laminated assemblies tailored to the functional and optical requirements of each application.

OPTICAL FILM LAMINATION

Precision application of optical and functional films to polymer and glass substrates.

OPTICALLY CLEAR ADHESIVES

Application of OCA layers for transparent optical assemblies and bonding applications.

PCAP SENSOR LAMINATION

Precision lamination of projected capacitive touch sensors to cover lenses using optically clear adhesives.

PRECISION ALIGNMENT

Controlled positioning of films, sensors and adhesive layers relative to component features.

CLEAN PROCESSING

Careful handling and controlled preparation to minimise contamination and visual defects.

PROTOTYPE TO PRODUCTION

Flexible lamination services supporting development samples and repeat manufacturing.

EXPLORE LAMINATION

PRECISION LAMINATION SOLUTIONS FOR DEMANDING OPTICAL APPLICATIONS



www.displayprotectsolutions.co.uk

DESIGNED AND MANUFACTURED IN THE UK

QUALITY
ASSURANCE

CONTROLLED PROCESSES. VERIFIED QUALITY. COMPLETE TRACEABILITY.

Quality assurance is integral to every stage of manufacturing at Display Protect Solutions, from incoming material inspection through to final product verification.

Operating within an ISO 9001:2015-aligned quality management system, we apply documented inspection procedures, material traceability and defined acceptance criteria to support consistent product quality.

Our inspection capabilities support dimensional, optical, cosmetic and coating performance verification, with inspection records and first article reports available to meet individual customer requirements.

DIMENSIONAL INSPECTION

Verification of critical dimensions, profiles and component features against drawing specifications.

OPTICAL PERFORMANCE

Assessment of optical clarity, transmission, haze and visual appearance.

COATING VERIFICATION

Testing of coating adhesion, surface hardness and abrasion resistance.

COSMETIC INSPECTION

Controlled visual inspection for scratches, contamination and surface defects.

MATERIAL TRACEABILITY

Documented material identification and batch traceability throughout production.

FIRST ARTICLE INSPECTION

Dimensional and visual verification with documented reports to support customer approval.

EXPLORE
QUALITY ASSURANCE

VERIFIED QUALITY AND TRACEABILITY THROUGHOUT EVERY STAGE OF MANUFACTURE



DIMENSION CONTROL | OPTICAL TESTING | COATING PERFORMANCE | FINAL INSPECTION

INDUSTRIES & **APPLICATIONS**

SPECIALIST COVER LENS SOLUTIONS ACROSS DEMANDING INDUSTRIES.

We supply bespoke polymer and glass cover lens solutions for electronic displays and control interfaces across a wide range of industries.

From high-clarity optical surfaces to durable, precision-engineered components, we combine specialist materials, advanced coatings and in-house manufacturing capabilities to meet the demands of each application.

Our flexible approach supports prototype development, low-volume specialist requirements and repeat production.

AUTOMOTIVE

Instrument clusters, infotainment displays and EV charging interfaces.



AEROSPACE & DEFENCE

Avionics, control panels and ruggedised electronic display interfaces.



MEDICAL

Diagnostic equipment, laboratory instruments and medical control interfaces.



MARINE

Navigation displays, helm controls and weather-resistant display covers.



INDUSTRIAL

Machine HMIs, automation controls and industrial instrumentation.



TRANSPORTATION

Railway control systems, passenger information displays and operator interfaces.



ENGINEERED COVER LENS SOLUTIONS FOR EVERY ENVIRONMENT

EXPLORE APPLICATIONS

BESPOKE
DESIGN & DEVELOPMENT

FROM INITIAL CONCEPT TO PRECISION MANUFACTURE.

We work closely with customers to develop bespoke cover lens solutions, combining specialist material knowledge, design engineering expertise and practical manufacturing experience.

From initial drawings and material selection through to prototyping and production, we provide technical guidance to help optimise component design, performance and manufacturability.

Our collaborative approach supports both new product development and the refinement of existing designs, ensuring each solution is tailored to the application's functional, optical and environmental requirements.

DESIGN ENGINEERING
Technical support for component design, drawing review and manufacturing feasibility.

MATERIAL SELECTION
Guidance on polymer and glass substrates, coatings and optical performance requirements.

DESIGN OPTIMISATION
Refinement of component features, tolerances and manufacturing methods.

PROTOTYPE DEVELOPMENT
Precision-manufactured samples for design evaluation, testing and approval.

TECHNICAL COLLABORATION
Close cooperation with customers to resolve technical challenges and refine specifications.

PRODUCTION READINESS
Controlled transition from approved prototypes to repeatable manufacturing processes.

DISCUSS YOUR PROJECT

ENGINEERING EXPERTISE FROM CONCEPT THROUGH TO PRODUCTION



WHY CHOOSE
DISPLAY PROTECT SOLUTIONS

ENGINEERING EXPERTISE. MANUFACTURING FLEXIBILITY. PERSONAL SERVICE.

We combine specialist cover lens engineering expertise with flexible, in-house manufacturing capabilities to deliver precision components tailored to individual customer requirements.

As an independent UK manufacturer, we offer a responsive, collaborative approach, working directly with customers from initial enquiry and technical development through to production and delivery.

Our focus is on building long-term partnerships through technical understanding, consistent quality and dependable service.

ENGINEERING EXPERTISE

Specialist knowledge of cover lens design, materials, coatings and manufacturing processes.

IN-HOUSE MANUFACTURING

Precision machining, screen printing and optical lamination under one roof.

FLEXIBLE PRODUCTION

Responsive support for prototypes, specialist low-volume requirements and repeat production.

DIRECT COMMUNICATION

Work directly with experienced technical and manufacturing personnel throughout your project.

QUALITY FOCUSED

Documented processes, inspection controls and material traceability to support consistent quality.

UK MANUFACTURING

UK-based manufacturing with local technical support and dependable communication.

DISCUSS YOUR PROJECT

YOUR PARTNER IN PRECISION COVER LENS MANUFACTURING

display protect solutions
cover lenses for electronic devices

LET'S DISCUSS
YOUR NEXT PROJECT

PRECISION COVER LENS SOLUTIONS, ENGINEERED AROUND YOUR REQUIREMENTS.

Whether you're developing a new product, refining an existing design or looking for a dependable manufacturing partner, Display Protect Solutions is ready to support your requirements.

From initial technical discussions and prototype development through to repeat production, we provide the expertise, flexibility and personal service to help bring your project to life.

START YOUR PROJECT WITH DPS

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LET'S DISCUSS