

Corporate capabilities

Dynacore is an engineering services provider covering product development, CAD/CAE, PLM and manufacturing. We track technical requirements from design through validation to production and prepare the engineering deliverables needed at each stage.

Engagement models

We take responsibility for defined engineering tasks, integrated work packages and complete product development. Remote, hybrid or on-site working arrangements follow the project requirements.

Focused engineering task

A defined scope and deliverable for CAD modelling, analysis, technical drawings or sample digitisation.

Integrated work package

We develop design, validation and manufacturing data for a component, fixture or subsystem against agreed acceptance criteria.

Complete product development

We manage the process from concept to prototype and production follow-up through technical requirements and controlled deliverables.

Project controls and delivery

We clarify scope, assumptions and acceptance criteria at the start. We record design decisions and revisions and check deliverables against the current technical definition.

- Defined technical requirements and acceptance criteria
- Interface definitions and recorded assumptions
- Design reviews and technical validation
- Version, revision and product approval records

Service scope

01 PLM & ERP Consulting

Product structures, EBOM/MBOM, revision and change management. Data architecture, CAD-PLM-ERP workflows, data migration, UAT and implementation.

02 Industrial Design & Product Development

User needs, product architecture, ergonomics, materials and process selection. Manufacturable product development from concept to prototype.

03 3D CAD Design

3D CAD development of parts and assemblies. Surface modelling, interface checks, GD&T, technical drawings and revision management.

04 Engineering Analysis

Load and boundary conditions, stress and deformation assessment. Static, modal, fatigue and buckling analysis as required by scope.

05 VR/AR & Photorealistic Animation

Design reviews, ergonomics assessment, real-time experiences, technical animation and photorealistic visualisation from CAD data.

06 Additive Manufacturing & Prototyping

FFF, SLA/DLP and powder-based additive manufacturing selection based on part requirements. Functional prototypes, fit assessment and low-volume production.

07 3D Scanning & Reverse Engineering

Digitisation of physical parts and conversion into CAD and technical drawings. Assessment of critical surfaces and dimensional requirements.

08 Conventional & Hybrid Manufacturing

CNC machining, plastic injection moulding, silicone moulding/vacuum casting and hybrid process planning. Method selection from prototype to series production.

Scope, analysis methods and deliverables follow the project requirements.

Technical capabilities and contact

Vehicle architecture and system layout

- Vehicle packaging, key dimensions and movement envelopes
- Subsystem interfaces and mechanical integration
- Clash, clearance and maintenance access checks

Ergonomics and user-centred design

- Control reach, fields of view and operator layout
- Working posture and maintenance ergonomics
- Digital human models and fit assessment

AI-based image processing

- Human and machine detection and monitoring of defined risk areas
- Visual detection of surface and assembly defects
- Event records, visual reporting and application integration

Confidentiality and technical data

We clarify requirements and scope during the technical discussion. We agree conditions for sharing confidential project data and, where needed, a non-disclosure agreement before transferring files.

Initial technical discussion

Share your technical requirement, project stage and target schedule. We will clarify scope and deliverables together.

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