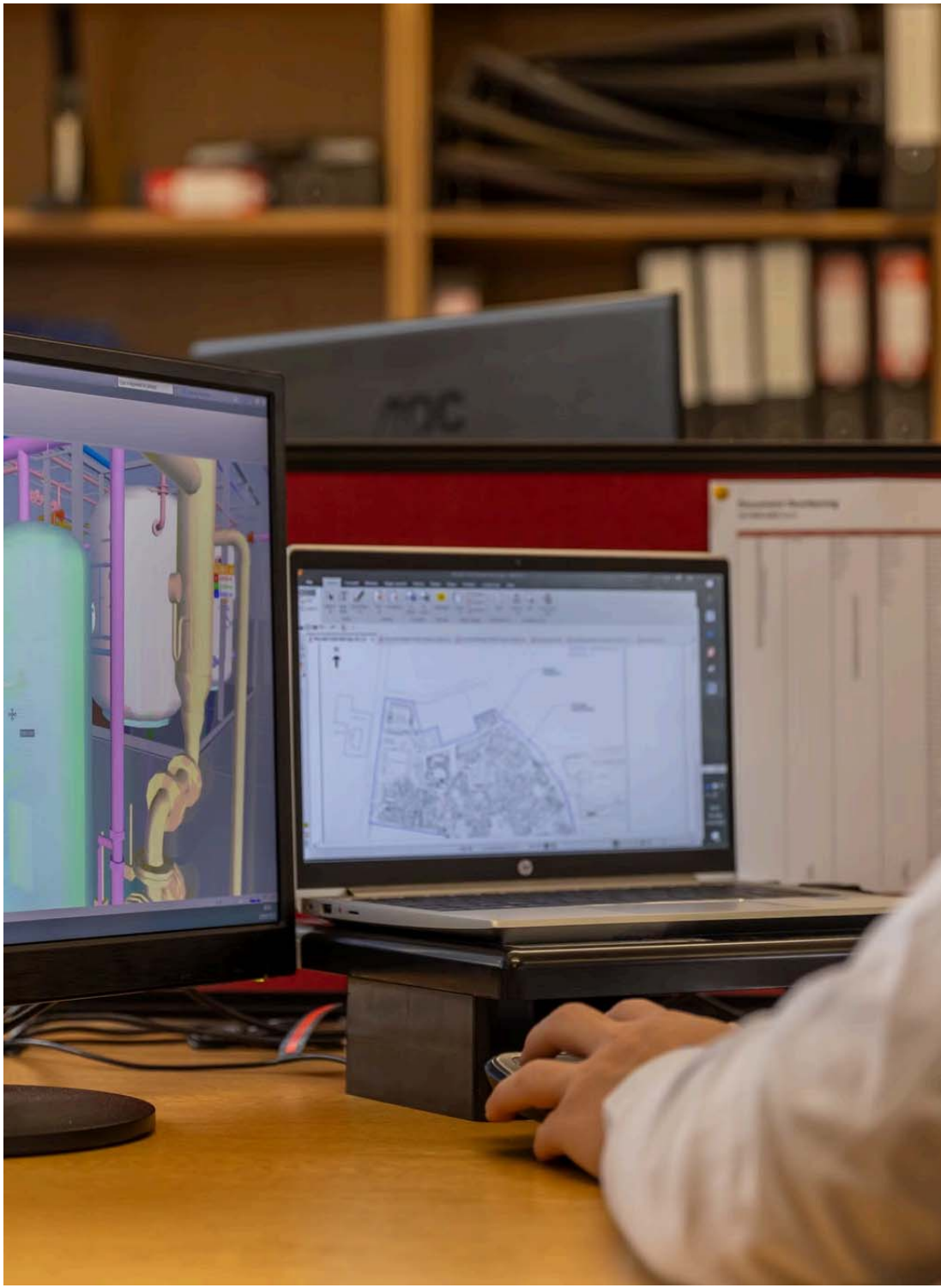
ESLA
MECHANICAL DESIGNS

CAD DESIGN

Using CAD to improve product design

CAD was introduced to reduce geometrical error in drafting. It now shapes how the whole product gets developed, across sheet metal, auto ancillaries, furniture, and building products.



SERVICES	ALSO	FORMATS	AIM
3D modeling · drafting	Reverse engineering	STEP · IGES · DWG · DXF	Less rework, less cost

01

WHAT CAD CHANGES

Seven gains, measured in cost and rework

01

Concurrent design

Teams in different locations work the same design at once. Cloud CAD resolves issues quickly and keeps the process agile.

02

Reuse from the library

Stored models let engineers design efficiently, shortening the design cycle and reducing cost.

03

Design intent carried

Features and intent transfer cleanly to manufacturers and fabrication contractors, eliminating manual error.

04 Functional optimisation

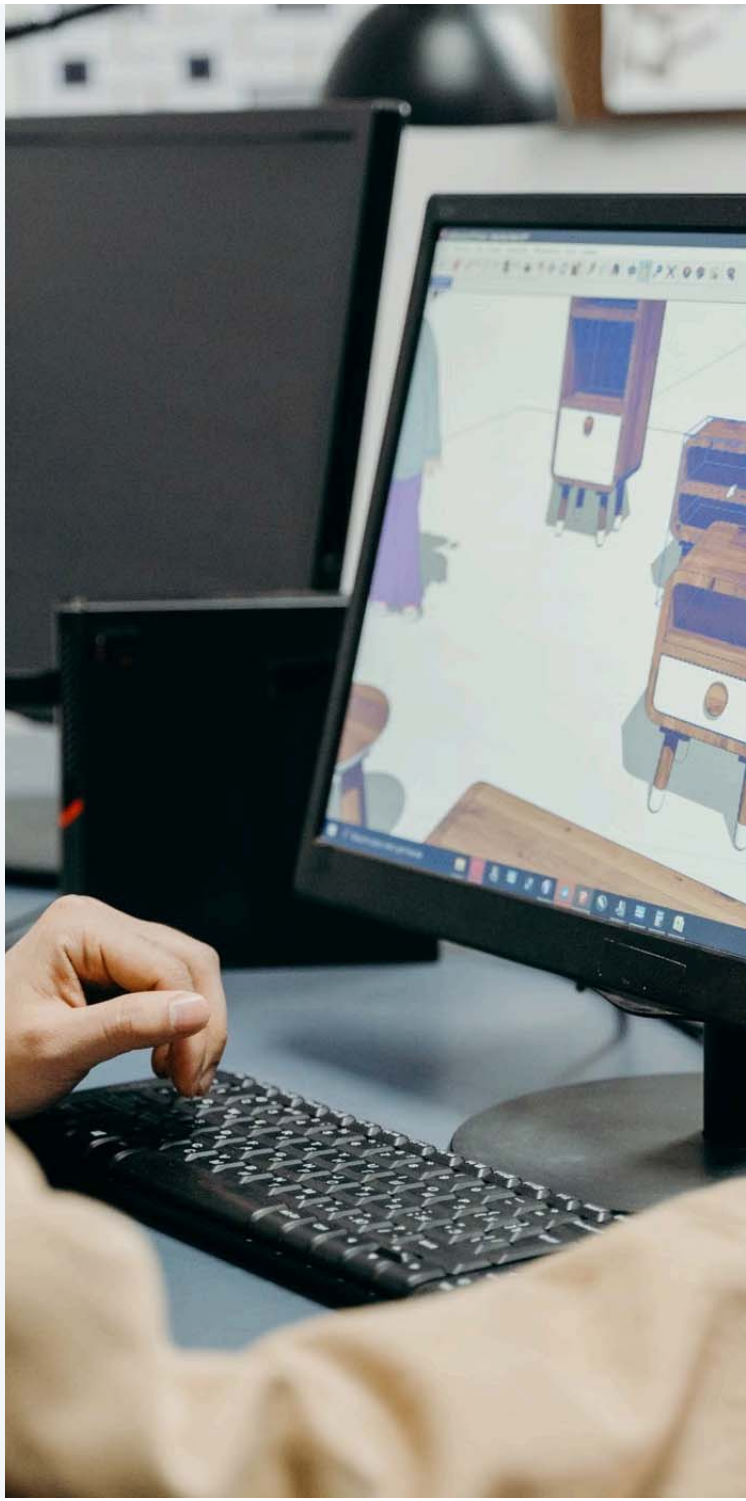
Function, shape, size, and geometry are optimised together for a production-ready design, lowering rework cost.

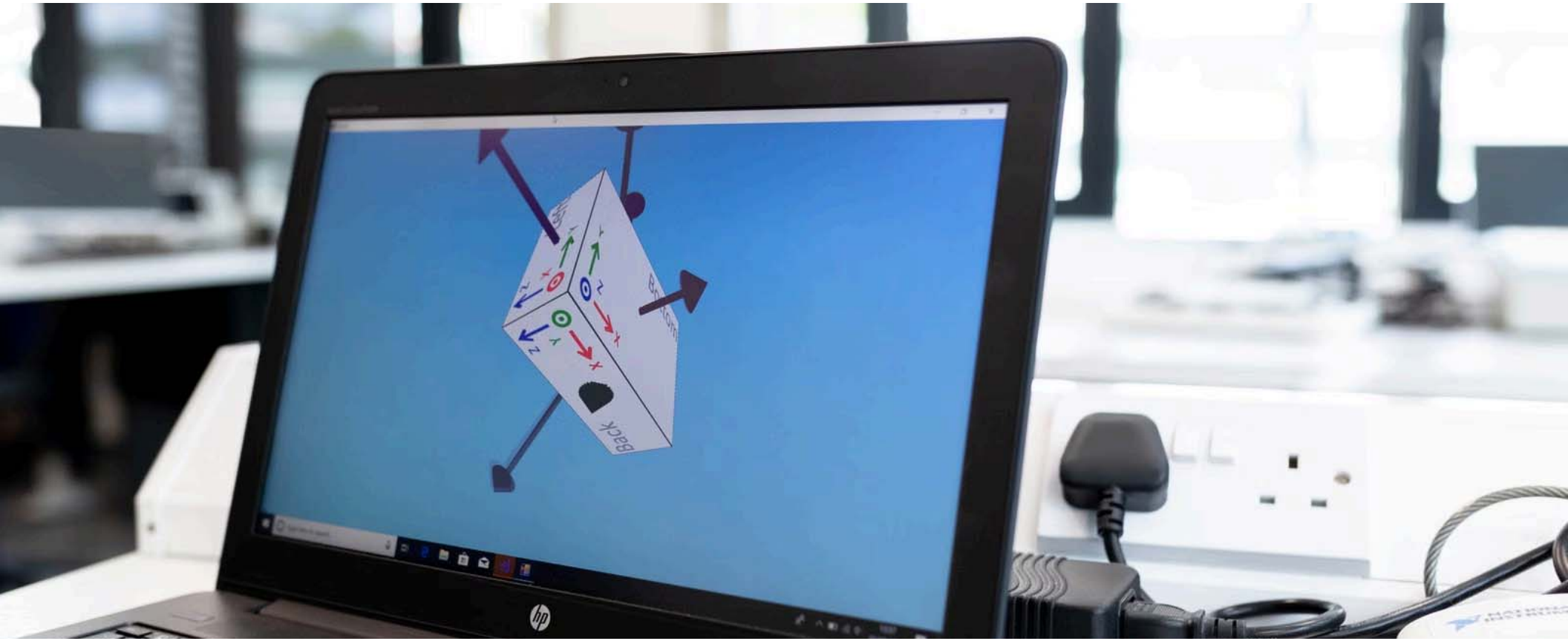
05 Lighter, more robust parts

An optimised product cuts weight while making the part robust, saving development time and raw material cost.

06 Fewer geometrical errors

CAD's original purpose, and still the most valuable: error caught in drafting rather than in production.





07

Accessible anywhere

One design file, available to anyone with supporting software, wherever they are, so review, approval, and handover stop waiting on location.

HOW TESLA MECHANICAL DESIGNS HELPS

We integrate CAD into your product development as your extended design arm, 3D modeling, drafting, and reverse engineering, run to keep the design manufacturable while minimising cost and rework.

WORK WITH OUR CAD TEAM

Send your drawings for a scoped quote.

A sketch, a PDF, a scan, or a physical part is enough to define scope. An NDA is signed to your terms first, and you own every deliverable.

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