

**LIBEREC**

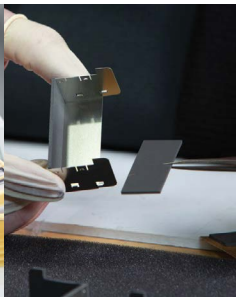
Solving Prototyping  
Needs *with Speed*

***Precision Thin Gauge Metal Parts***

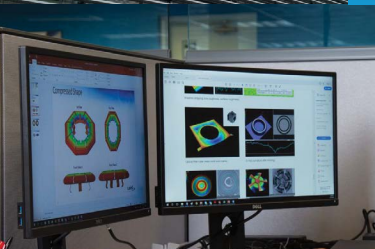
***Compelling Multi-Functional Products***

***Rapid Prototyping***

***Quality Production***



**QUALITY**



**DESIGN ANALYSIS**



Laird's Liberec, Czech Republic, metals prototyping and production site serves design engineers worldwide. We focus on safety, quality, precision parts, speedy prototypes, on-time delivery, and environmental sustainability.

We are an acknowledged global leader in engineering. Our innovative designs enable and protect applications threatened by disruptive electromagnetic interference and other structural or performance issues. Left unaddressed, each could bring your go to market plans to a sudden and unexpected stop.

Sometimes an EMI or other issue is spotted early. Sometimes it isn't. No one welcomes surprises like that. *It's why we're driven to deliver. Driven to help you.*

The bottom line is this: Many of today's applications require precision metal parts which are smaller, thinner, and lighter. Few competitors can match Liberec's prowess while also offering extremely tight tolerances and ensuring quick prototyping. None can match our seasoned employees and their craftsmanship. Their average tenure? More than 20 years.

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## CONTACT US.

*You're getting a flying start on resolving your design performance challenges.*

## AMONG OUR MARKETS SERVED

**Aerospace and Defense**  
**Data Communications/Telecommunications**  
**Electric Vehicle Component Design**  
**Medical IoT and Portable Medical Devices**  
**Augmented Reality and Virtual Reality**  
**Consumer Electronics**  
**Industrial Electronics, Automation**  
**Automotive Telecommunication**

## OUR SPECIALTIES

**Complex functionality including EMI shielding, multi-functional designs** (thermal, absorber, fabric over foam, electrical conductive elastomer, dielectric materials such as DuPont® Kapton®)

**Thin-gauge metals** – shields, precision metal parts thick gauge <1.0mm

**“Flexing” products and “very small”** (e.g., battery contacts, clips)  
Multiple types of alloys include: cold rolled steel, nickel silver, beryllium copper, phosphorus bronze, stainless, aluminum

## KEY OVERALL ADVANTAGES

**ISO + IATF certified**

**Speed of development** – 5 days or less for 50-piece samples using standard materials, assuming no outside services including design, tooling

**Short run production expertise**

**Reliability and performance** – Laird in-house engineers simulate and analyze thermal, EMI, and mechanical issues with material properties to accurately predict lifetime, stress analysis, draw simulation, and more

**Multi-functional or integrated solution capabilities** – in addition to in-house dielectric coatings, laser welding and marking; Laird multi-functional absorber/thermal pad quickly sourced and use of in-house quick turn application

## LAIRD'S Prototyping Expertise

**Application of leading software tools -**  
including PTC Creo, AutoCAD, and Solidworks

**Rapid delivery** – we consistently produce and deliver rapid prototypes in days

**Predictive modeling capabilities** – include Finite Element Analysis (FEA), EMI modeling, and deep draw simulations, along with accurate predictions of product lifetimes, ensure reliability and performance

**Low-cost designs** – we make prototyping simpler for you and keep costs low

## Renowned flexibility

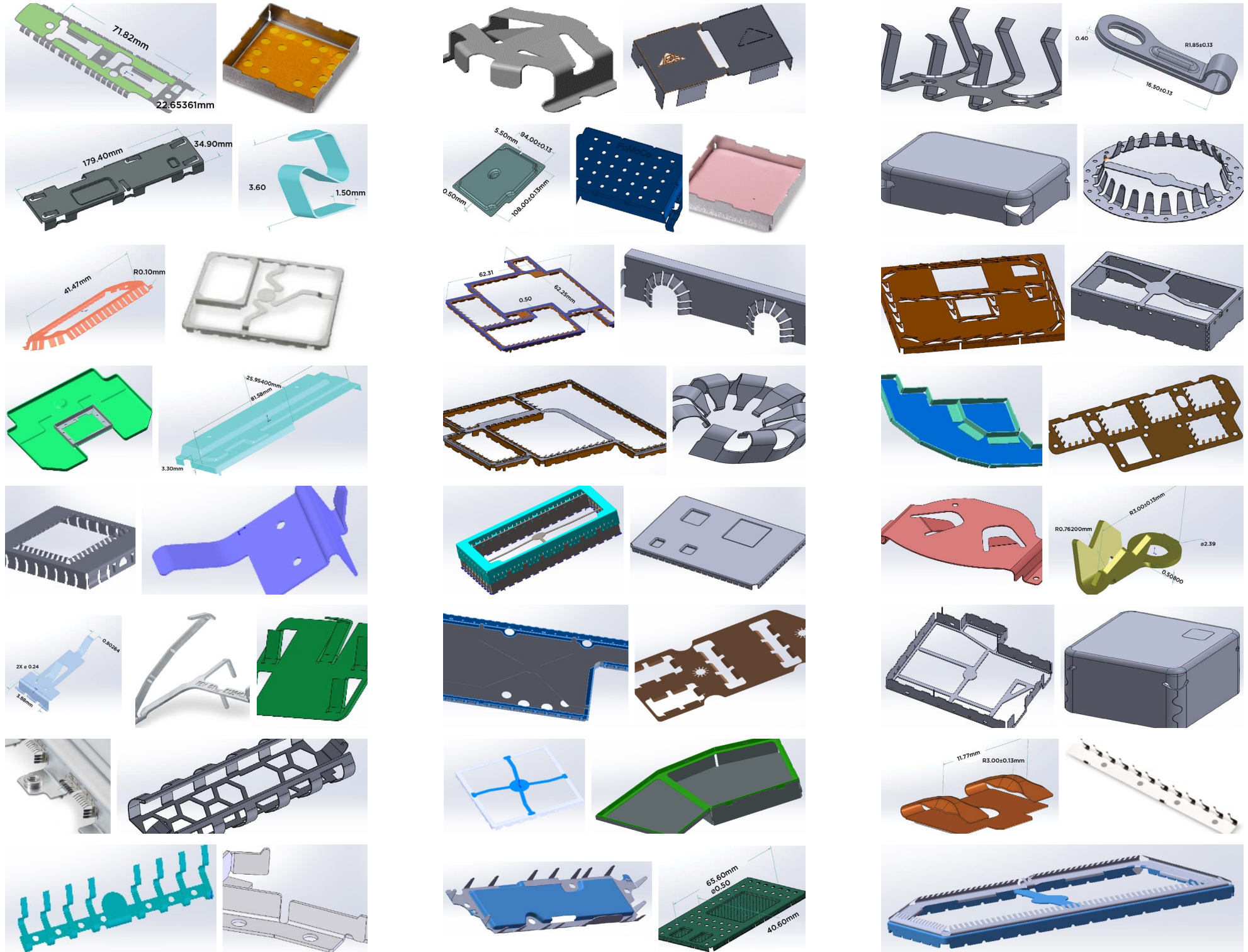
**Talented team** – we employ experts with hundreds of years of “talent” combined experience

## In-house tooling designers and tool room allow for quicker turnaround time on prototypes

**Huge capital resources** – superior technologies to prototype and manufacture multi-functional protective solutions for electronic components

**WE DELIVER. END TO END.**

***Laird's prototyping professionals  
will help you achieve the optimum  
EMI, structural, and multi-functional  
solutions to ensure efficient product  
manufacturability and packaging.***



# OUR COMPETITIVE EDGE:

## COMPLETE SATISFACTION OF OUR CUSTOMERS

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They recognize Laird Performance Materials for the consistent imagination and innovation we offer in precision and structural metals and multi-functional solutions

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They trust us for reliable fulfillment, enabling them to deliver on plan and on budget and with high quality

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They grow accustomed to our speed, giving them a distinct and powerful competitive advantage

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They acknowledge us for our focus on sustainability, contributing to the value we bring to them

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