

Technical Specifications



Model		Apex 3D
Scanning mode	High-speed scanning	34 crossed blue laser lines
	Precision scanning	17 parallel blue laser lines
	Deep hole scanning	1 single blue laser line
Max. accuracy		0.030 mm
Max. measurement rate		6,500,000 measurements/s
Scanning area		Max. scanning area: 1000 mm×800 mm,Standard scanning area: 650 mm×500 mm
Max. resolution		0.01 mm
Laser class		Class II (Eye safe)
Volumetric accuracy		0.03 mm+0.035 mm/m
Working distance		300 mm
Depth of field		650 mm
Output formats		STL, PLY,OBJ,TXT etc.
Operating temperature		-10°C to 40°C
Interface type		Type-C
Minimum computer requirements		OS: Windows 10 or later (64-bit required) GPU: NVIDIA GTX/RTX series (e.g., RTX 4060 or higher) VRAM: 8 GB or more CPU: Intel Core i7-13700HX or better RAM: 32 GB or higher

※ Test methods: In accordance with VDI/VDE 2634 Part 3.

Apex 3D Handheld 3D Scanner

Lightweight & Precise



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Product Introduction

Portable 3D Digital Acquisition

Apex 3D is an industrial-grade handheld 3D scanner designed for industrial applications, combining industrial-grade accuracy with a professional-grade price advantage. Its lightweight design weighs only about 450 g, and its compact, flexible body easily adapts to narrow spaces, complex structures, and rapid on-site measurement needs — enabling truly portable 3D digital acquisition.

Apex 3D integrates lightweight portability with efficient acquisition. Equipped with multi-beam blue laser scanning technology and supporting marker-free scanning, it effectively enhances the capture of complex workpieces, dark surfaces, and fine structures. With a maximum scanning rate of 6.5 million measurements/s and a maximum scanning area of 1000mm × 800mm, it rapidly acquires 3D data from small precision parts to medium-to-large components, providing efficient, accurate, and flexible digital solutions for industrial applications such as reverse engineering, quality inspection, product development, and manufacturing verification.



Apex 3D

An industrial-grade handheld 3D scanner designed for industrial applications

Product Features



5 Key Features >>

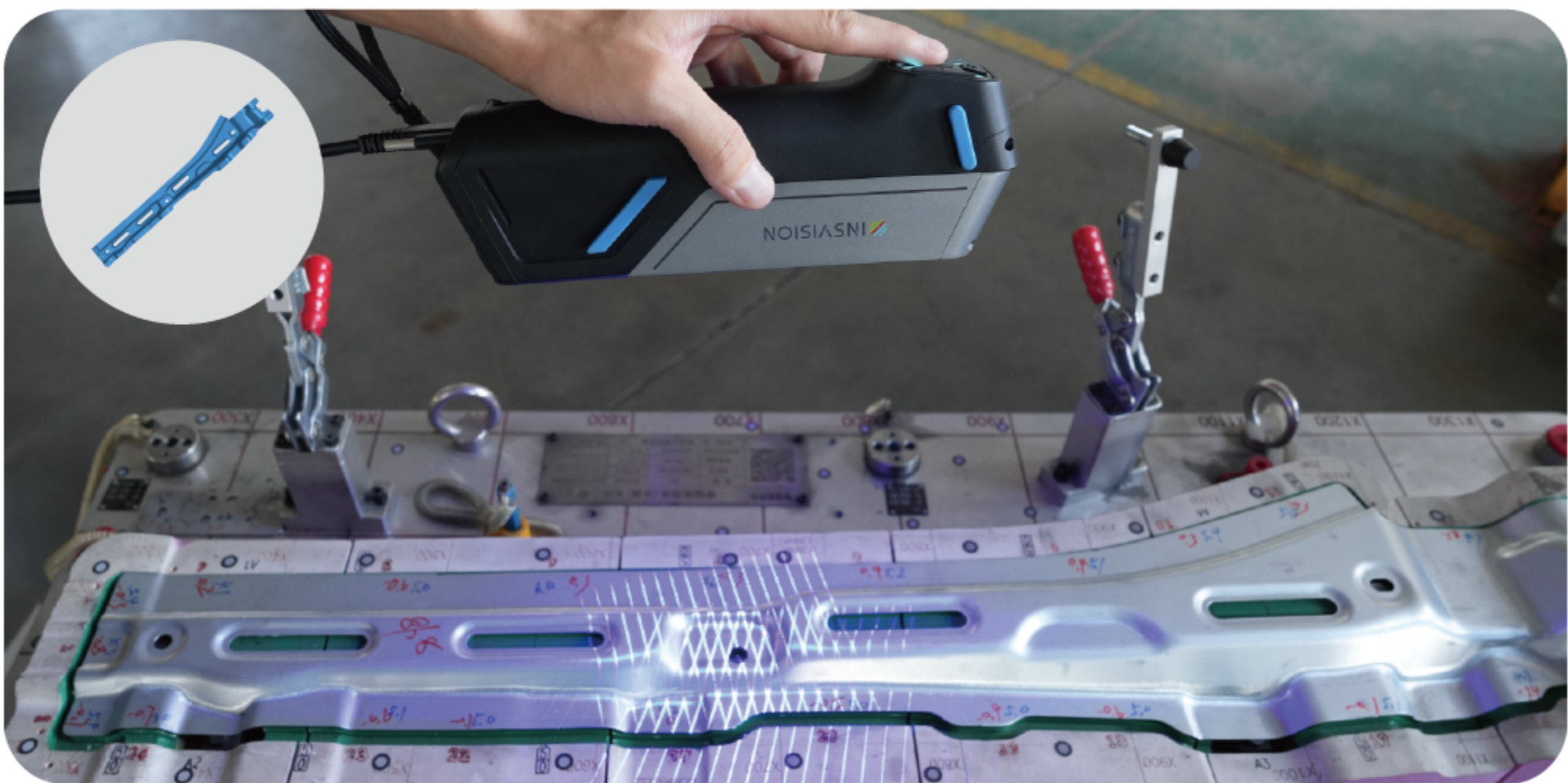
01. Light & Portable >

Approx.450g (main unit) – compact and flexible, easily reaching into confined spaces, and comfortable for extended handheld use.



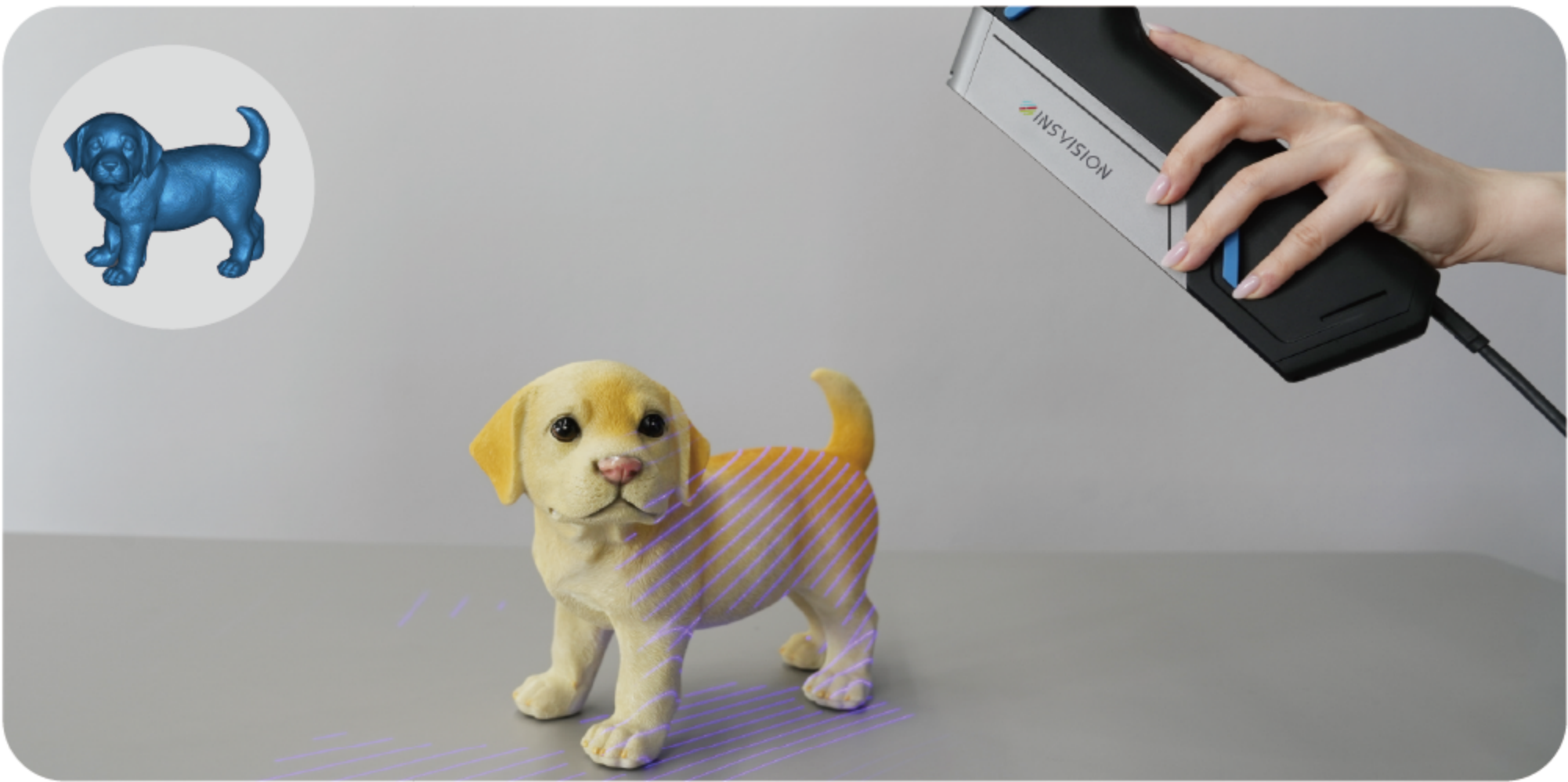
02. Multi-mode blue laser >

Combining 34 crossed blue laser lines with 17 parallel blue laser lines, it balances large-area rapid scanning with fine-structure capture, allowing flexible selection of scanning modes based on different workpiece characteristics.



03. No markers required >

Supports marker-free scanning, enabling data acquisition immediately after power-on and significantly reducing preparation time.



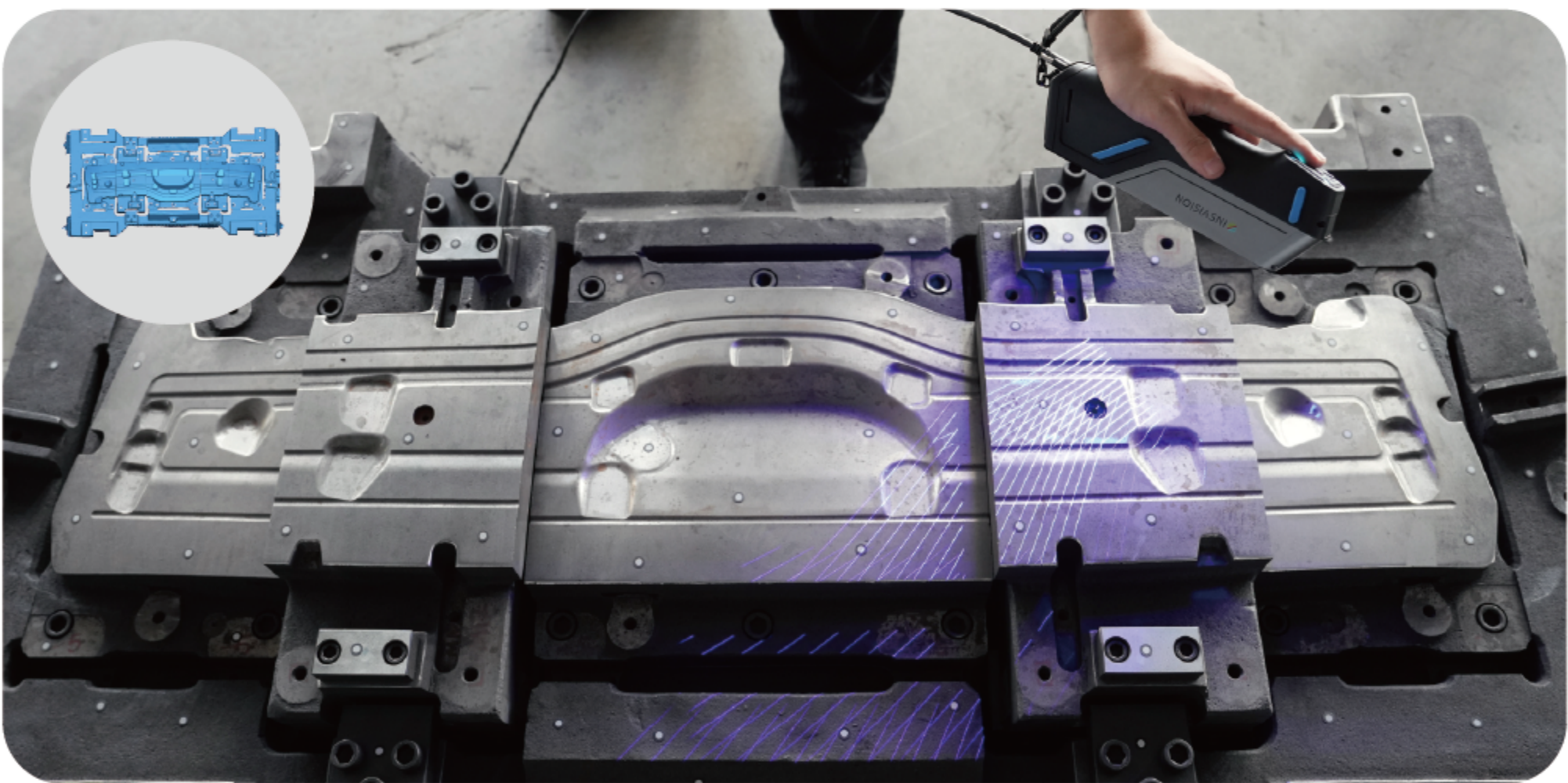
04. Industrial-grade performance >

With industrial-grade accuracy, efficiency, and stability, it lowers the barrier to entry for professional 3D scanning at a more competitive price.



05. Large-area scanning >

Maximum scanning area up to 1000mm×800mm, standard scanning area 650mm×500mm , enhancing overall scanning coverage efficiency while preserving fine-detail capture.



Application Showcase



6 Applications



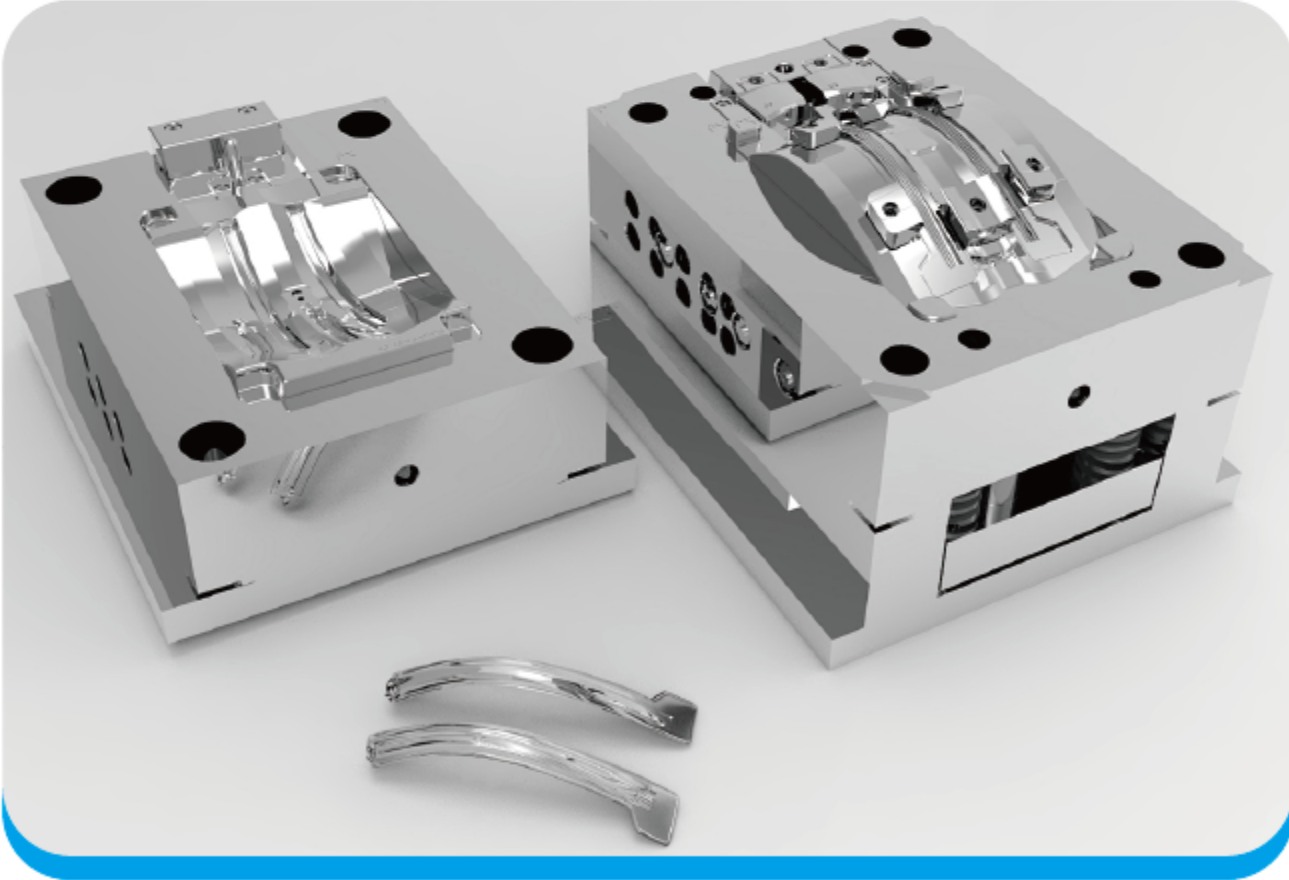
Rail Transportation



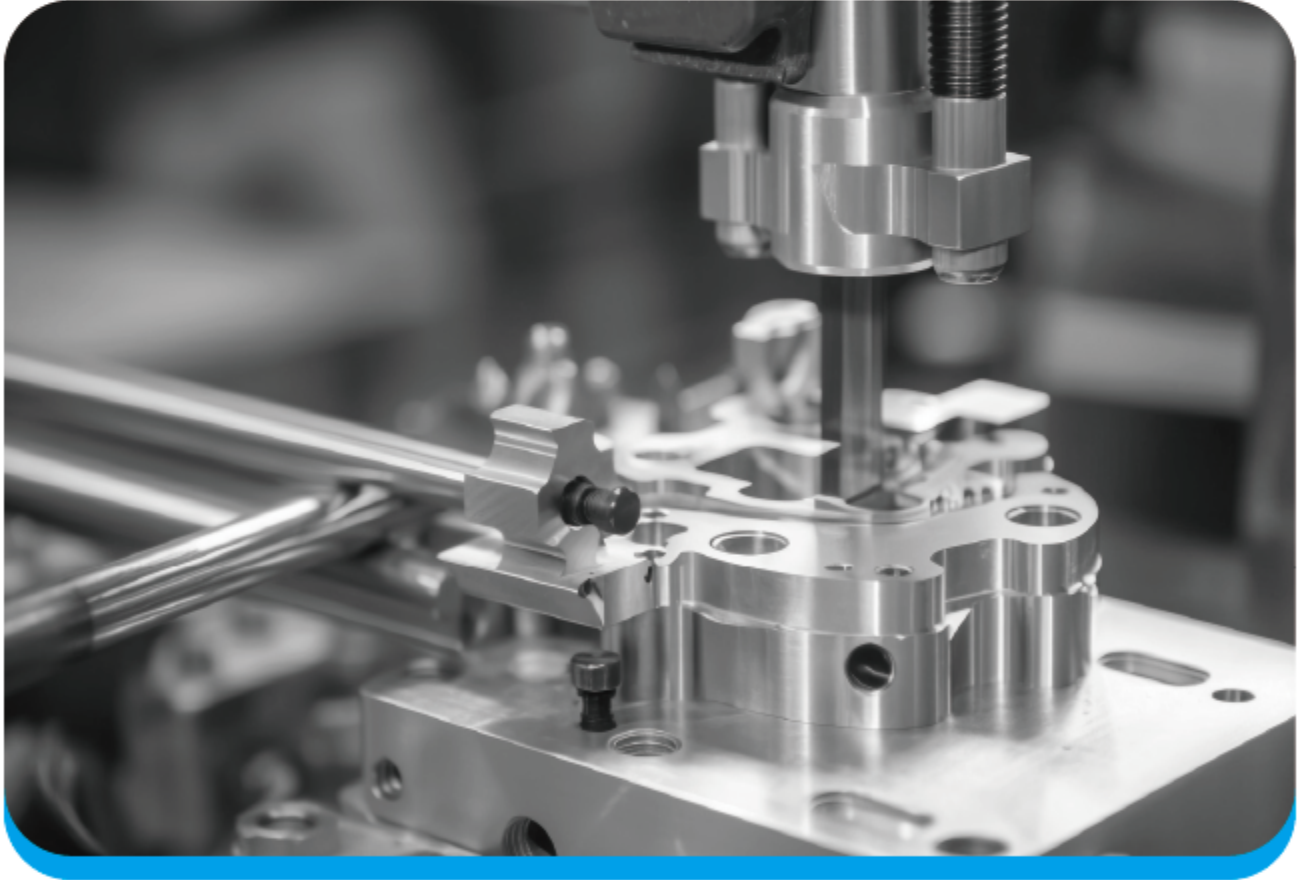
Aerospace



Energy Manufacturing



Mold Manufacturing



Machinery Manufacturing



Automotive Industry