Jabil Optics

Condensed Overview

JABIL



The Power of Jabil

1966

FOUNDED IN MICHIGAN, USA

260K

DEDICATED

54M

SQUARE FEET OF MANUFACTURING **SPACE**

100+

SITES **WORLDWIDE**

EMPLOYEES



TENURED MANAGEMENT TEAM \$33.5B

REVENUE IN FY22

Markets Served



Networking & Telecommunications



Cloud, Compute & Storage



Capital Equipment



Industrial & Energy



Building Technologies



Safety & Security



Digital Print & Retail



Smart Home & Appliances



Consumer Devices



Optics



Automotive & Transportation



Defense & Aerospace



Healthcare



Packaging

Jena, Germany Site Overview

Strategically located in the heart of Germany's Optics valley, Jabil's Optical Technology group in Jena provides in-depth optics knowledge to customers worldwide.

OPERATIONS MANAGER

Pascal Grahnert YEAR ESTABLISHED

2006

110 EMPLOYEES

62,000 SQUARE FEET



How We Became What We Are Today

2005 2010 2015 2020 2025

2006

JABIL launches joint venture with Carl Zeiss



2007

JABIL acquires Green Point

2015

JABIL opens Blue Sky Center for Innovation in San Jose

2015



JABIL acquires Kasalis

2015

JABIL opens optics factory in Huangpu

2016



Sypro Optics renamed in JABIL Optics Germany

2017

JABIL Optics opens Center of Excellence for Optics in Jena, Germany



2020

Extension of JABIL Optics Jena site



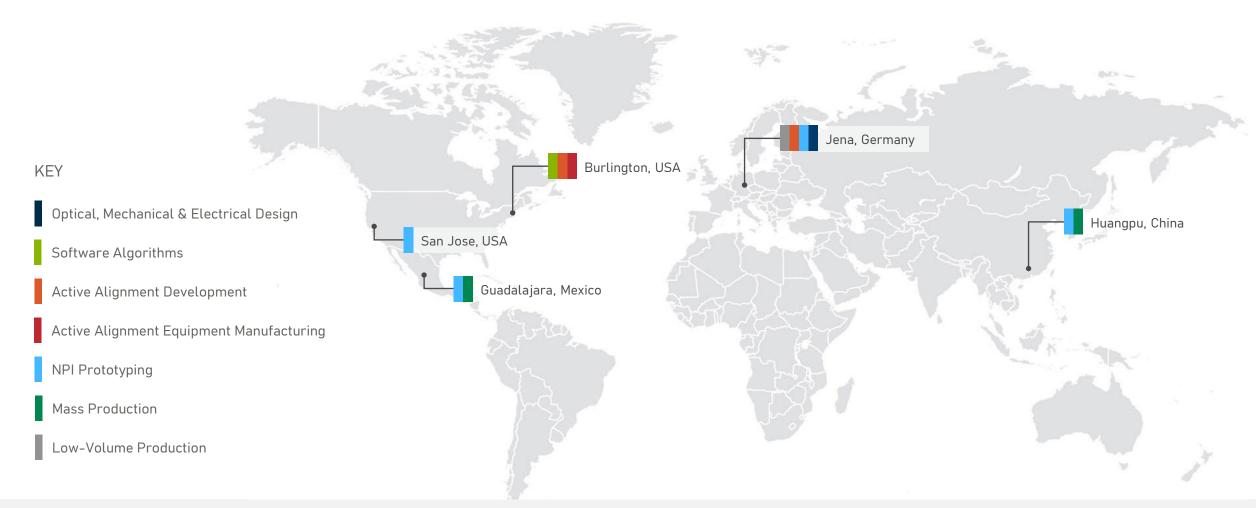
2022

JABIL opens optical module factory in Guadalajara, Mexico



What Makes Us Engineering Experts

Strategic acquisitions & investments in best-in-class capabilities have built one of the world's strongest optical engineering team with formidable design and mass production capabilities.

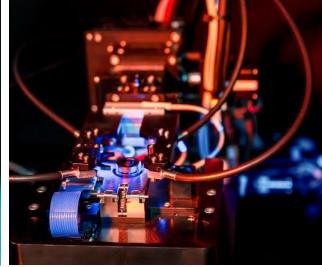




From Sketch to Mature Product









INNOVATE

DESIGN

PROTOTYPE

MANUFACTURE LOW/HIGH VOLUME

What Makes Us Special



20+ YEARS of experience in best-of-class design of opto-electronical modules



FAST, FLEXIBLE and WELL-EQUIPPED PROTOTYPING within design implementation (EDT & EV1)



Deep **UNDERSTANDING** of customer requirements



Full range of design capability and manufacturing processes WITHIN ONE COMPANY



Turnkey **ACTIVE ALIGNMENT** solutions provider



GLOBAL supply chain network



Broad Optics Experience

WE PROVIDE

Opto-Mechanical Design

Development & Integration

Full Product Design Productionization/ Industrialization Deployment Serial Production, High Precision Assembly Deployment

FOR



PROJECTION SYSTEMS



IMAGING SYSTEMS





USED IN



AR & VR



LiDAR



3D SENSORS







ADVANCED CAMERA SYSTEMS

Your Trusted Partner For Superior Products



World Class **OPTICAL DESIGN** in Leading Innovation Centers



Full Portfolio of ACTIVE & PASSIVE ASSEMBLY TECHNOLOGIES



Uniquely Qualified Team of **EXPERTS** & PhDs



Active Alignment Process Transfer into Jabil High UPH Machines



MINIATURIZATION Expertise



Custom Test Equipment



IP PROTECTION



Custom Algorithms for Production & Test



Global SUPPLY CHAIN

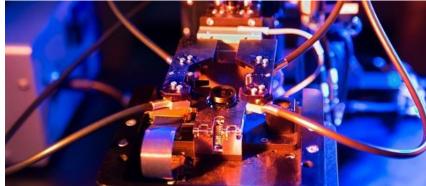


FAST PROTOTYPING & SCALABLE MANUFACTURING

Our Value For You

We design products, processes and equipment







for low volume / high mix and high volume production.





Markets We Serve









CONSUMER



AR / VR / MR Glasses



Action Cameras



Facial Recognition



Embedded Cameras

AUTOMOTIVE



LiDAR



ADAS Cameras



Smart Headlamps



Head Up Display & In-Car Projection



Precision Farming

MEDICAL



Endoscope Cameras



Medical Diagnostics



Patient Monitoring

INDUSTRIAL



Robotic Sensing



ToF Sensors



Bar Code Scanners



Authentication



Smart Home Cameras



Flexible Design Capabilities to Complement Your In-House Capabilities

Increasing speed-to-market by designing first-time manufactured products.

ENGINEERING OPTIMIZATION



Manufacturing & Quality Cost Avoidance (DFx)

Component Engineering, RoHS, WEEE, Obsolescence

NPI Engineering Support

Product Teardown

ENGINEERING SERVICES



Working for Customer Engineering Teams

Internal Capacity Supplements

Outsourced Engineering Layout, Verification

A La Carte Services (OD, MD, EE, TE, ME, SW, V&V)

JOINT PRODUCT DESIGN



Working with Customer Engineering Teams

Technical Specification

Full Product or Subassembly Design

Assembly Process

Product Builds

Product or Subassembly Test & Verification

Industrialization &
Mass Production Transfer

FULL PRODUCT & SUBSYSTEM DESIGN



Full Product & Subsystem Design Ownership

Strategists & Researchers

Partner Development

Industrial Design

Quality & Regulatory Experts

Product Specification

Product Design & Qualification

Product Test, Verification & Certification Support

Industrialization & Mass Production Transfer

JABIL ENGAGEMENT & INCREASED VALUE ADD



Core Capabilities

Capabilities to help our clients define What to Make + Why and How to Make + Scale It



Design for Excellence



Opto-Mechanical Design



Advanced Optical Design



Product Verification & Test



Electrical Design



Process Development

Volume Manufacturing



Industrialization & Transfer



Quality Management



Agile Product Design



Supply Chain Management



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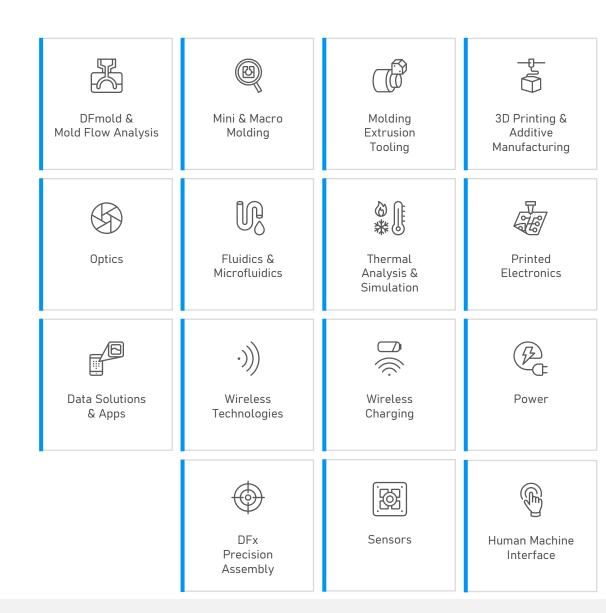
Joint Product Design



Active Alignment

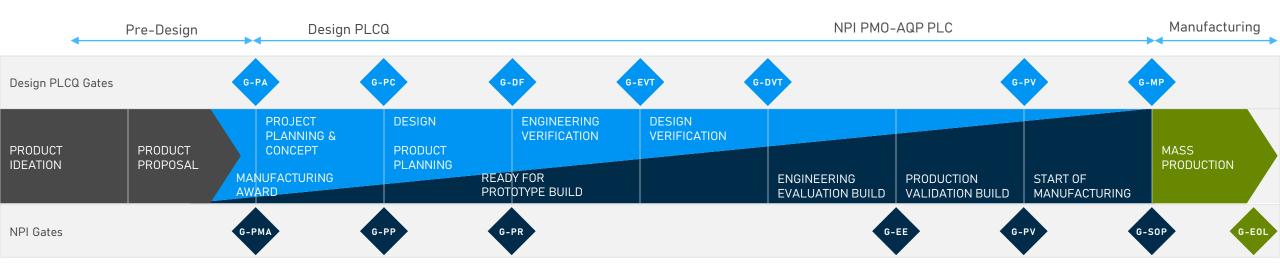
Leveraging Jabil Experts

- Core technology focus areas around the world
- Technologies leveraged for opto-electromechanical Module Design & Development
- SME owner for each technology responsible for:
 - Monitoring industry capabilities and technology roadmaps
 - Collaborating and leveraging pan-Jabil expertise
 - Providing expertise and guidance to Jabil Optics Project teams
 - Supporting Jabil Optics customers with technology exploration



Quality Management + Standards

We understand the industry standards and guidelines and how to best integrate them into the design and development process.

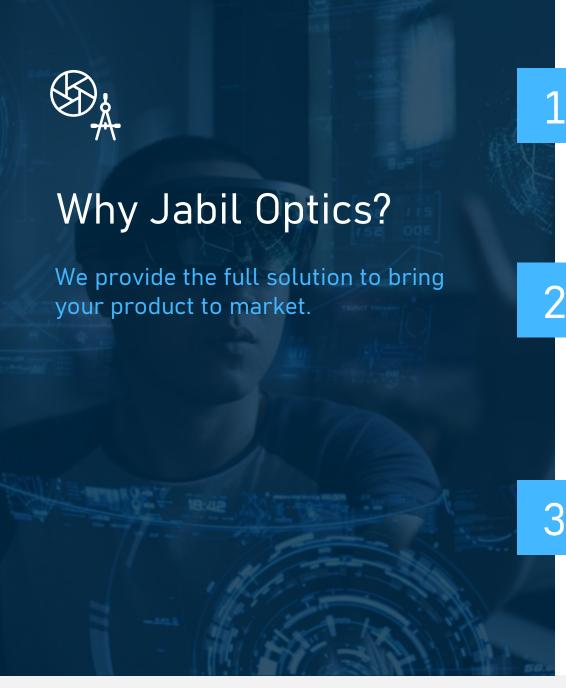


ISO 9001 Certified

IATF 16949 Compliant







We serve you with outstanding optical know-how that's unique in the world & enable highest maturity of your product with our inhouse state-of-the-art verification, test & manufacturing equipment.

We live agility, designing the development processes according to your needs, & are backed by one of the world's largest manufacturing service providers with one of the strongest supply chain, logistics and quality organizations,

We have worked with the leading brands in the consumer, automotive, industrial and healthcare markets, & have provided solutions for AR/VR, LiDAR, 3D sensing, projection and imaging applications.

We are your partner!

Learn more at jabil_optics@jabil.com to start your project with us.



JABIL MADE POSSIBLE. MADE BETTER.