

Jabil Optics

Condensed Overview

JABIL



The Power of Jabil

1966

FOUNDED IN
MICHIGAN, USA

54M

SQUARE FEET
OF MANUFACTURING
SPACE

100+

SITES
WORLDWIDE

260K

DEDICATED
EMPLOYEES



TENURED
MANAGEMENT TEAM

\$33.5B

REVENUE
IN FY22

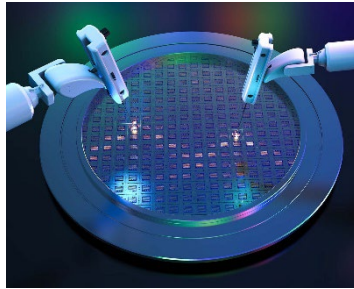
Markets Served



Networking & Telecommunications



Cloud, Compute & Storage



Capital Equipment



Industrial & Energy



Building Technologies



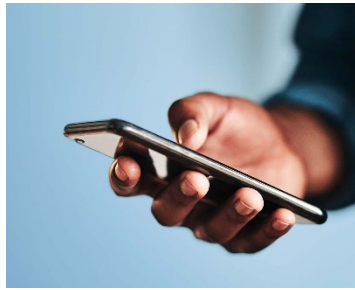
Safety & Security



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

110
EMPLOYEES

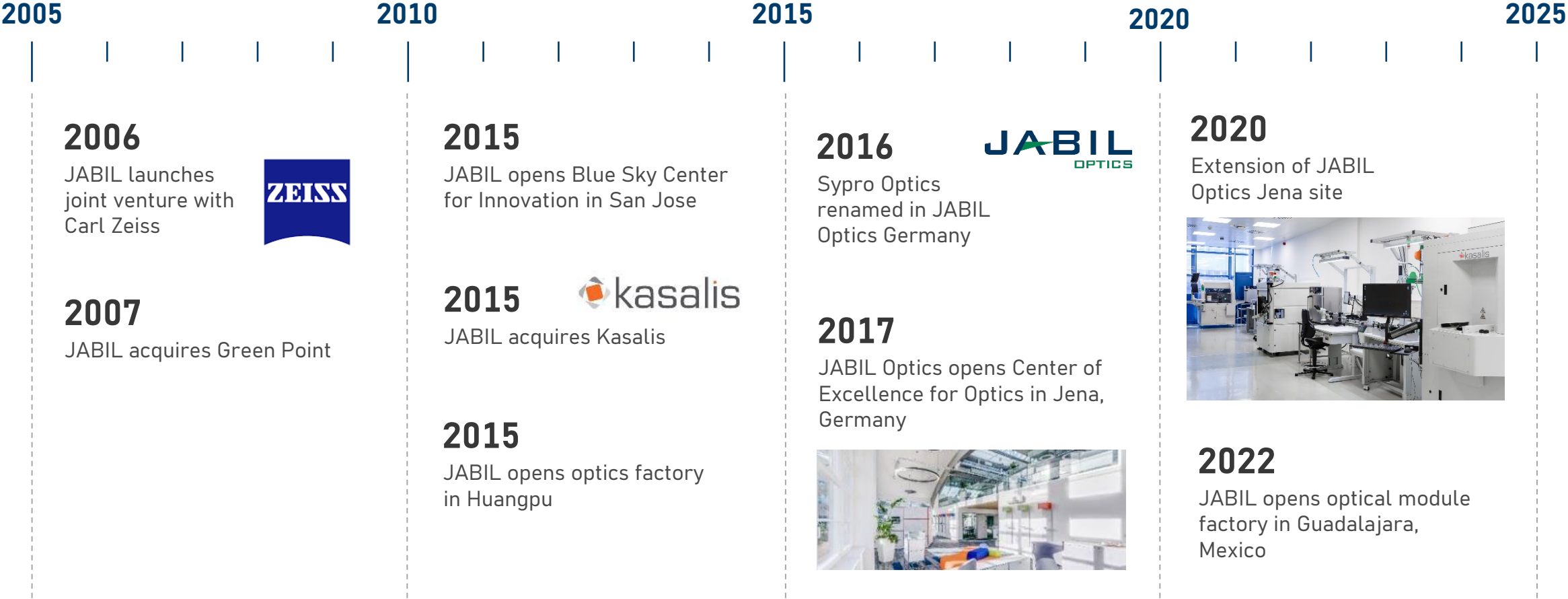
YEAR
ESTABLISHED

2006

62,000
SQUARE FEET

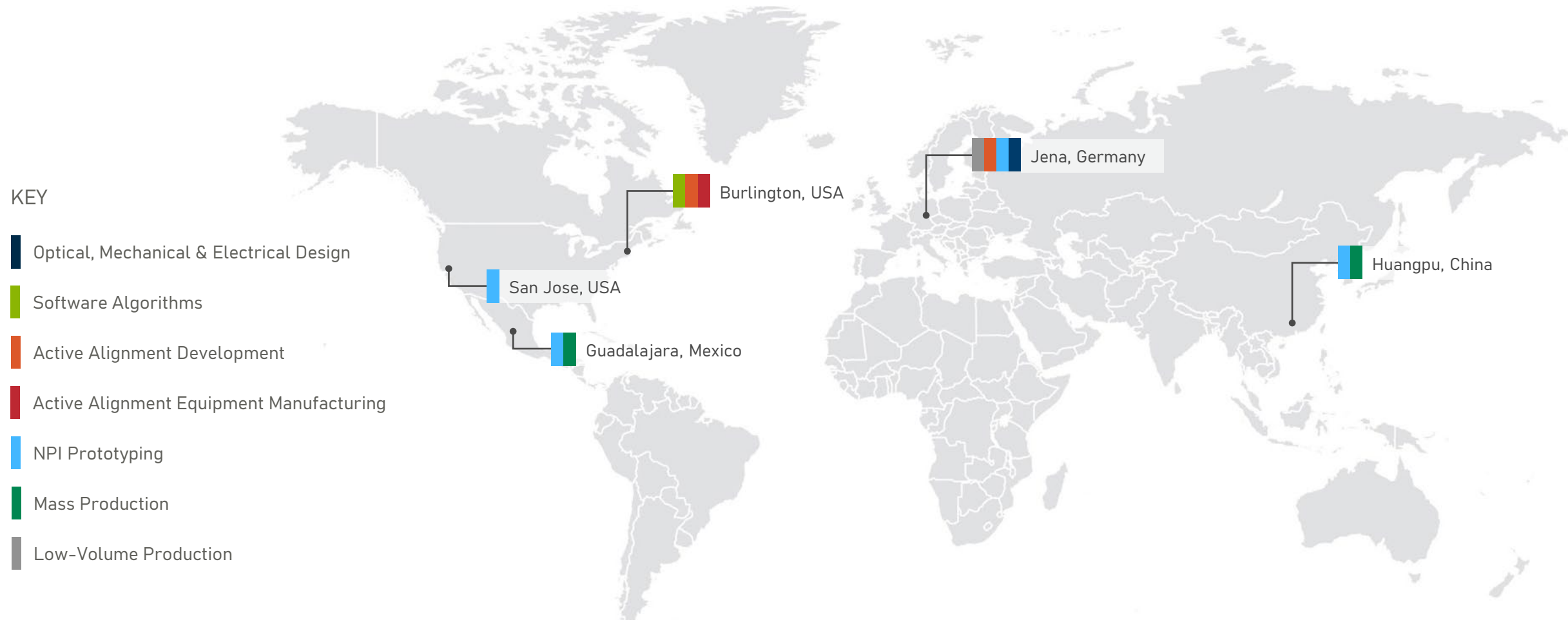


How We Became What We Are Today



What Makes Us Engineering Experts

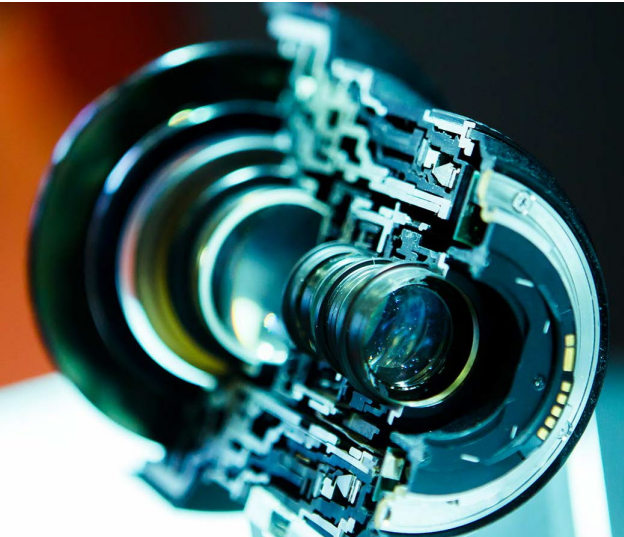
Strategic acquisitions & investments in best-in-class capabilities have built one of the world's strongest optical engineering team with formidable design and mass production capabilities.



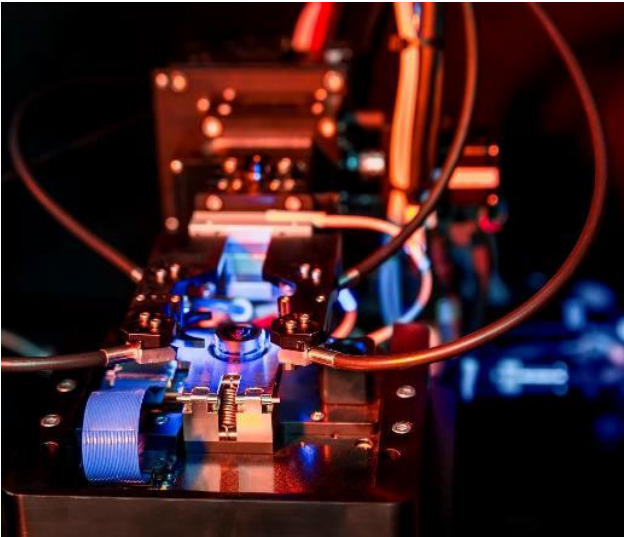
From Sketch to Mature Product



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



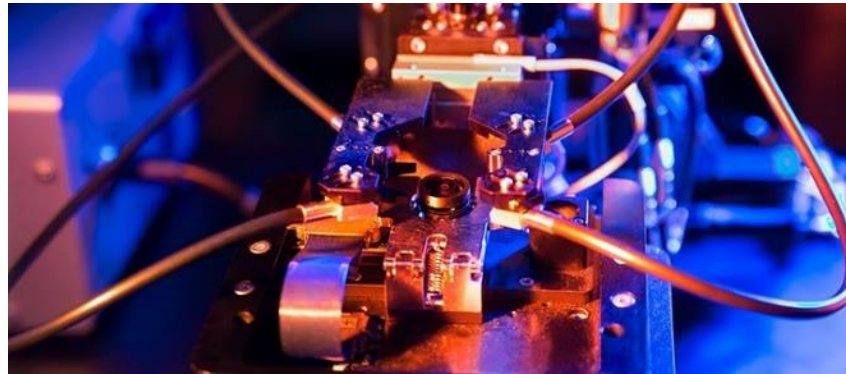
Global **SUPPLY CHAIN**



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



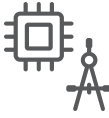
Opto-Mechanical Design



Advanced Optical Design



Product Verification & Test



Electrical Design



Process Development



Industrialization & Transfer



Quality Management



Agile Product Design



Supply Chain Management



Fast Prototyping & Low Volume Manufacturing



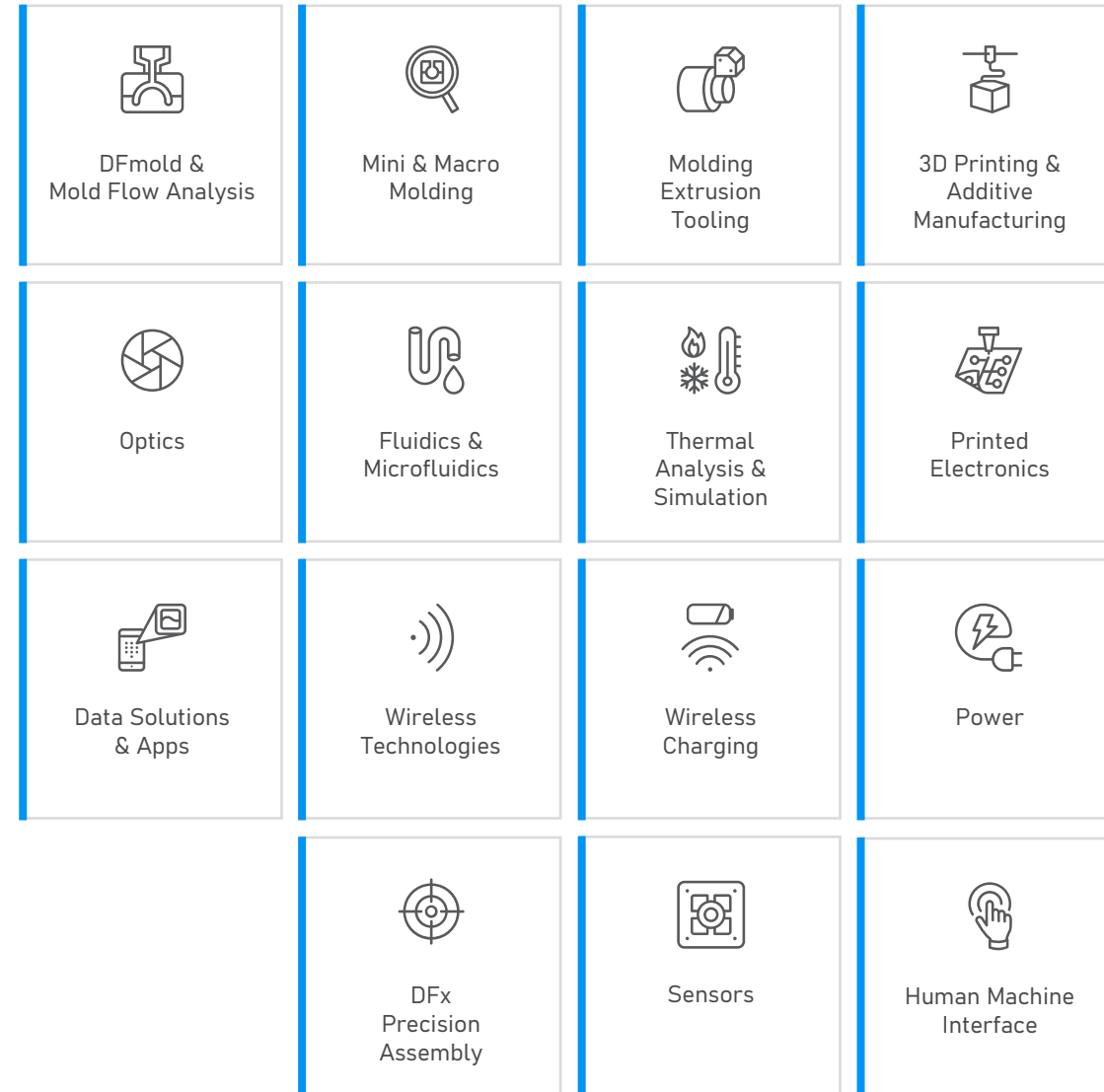
Joint Product Design



Active Alignment

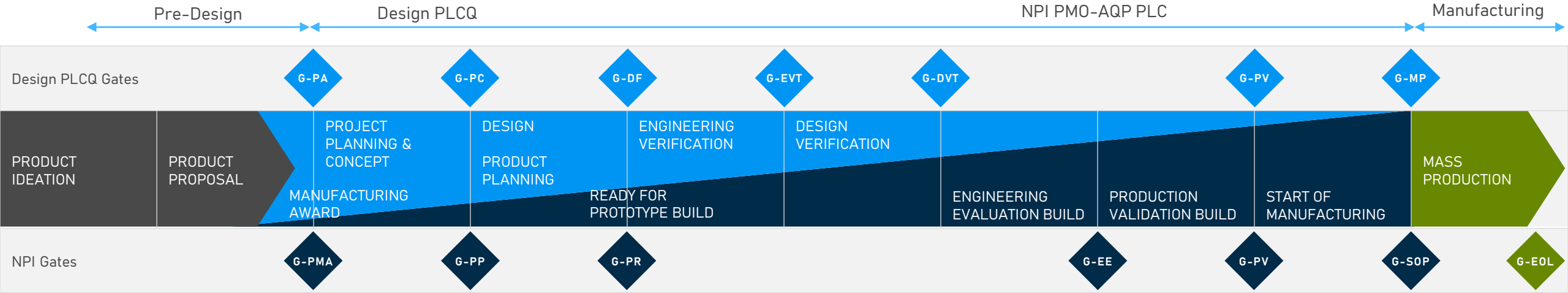
Leveraging Jabil Experts

- 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





Why Jabil Optics?

We provide the full solution to bring your product to market.

1

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.

2

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,

3

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.com/optics or contact us via jabil_optics@jabil.com to start your project with us.



JABIL

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**MADE POSSIBLE.
MADE BETTER.**