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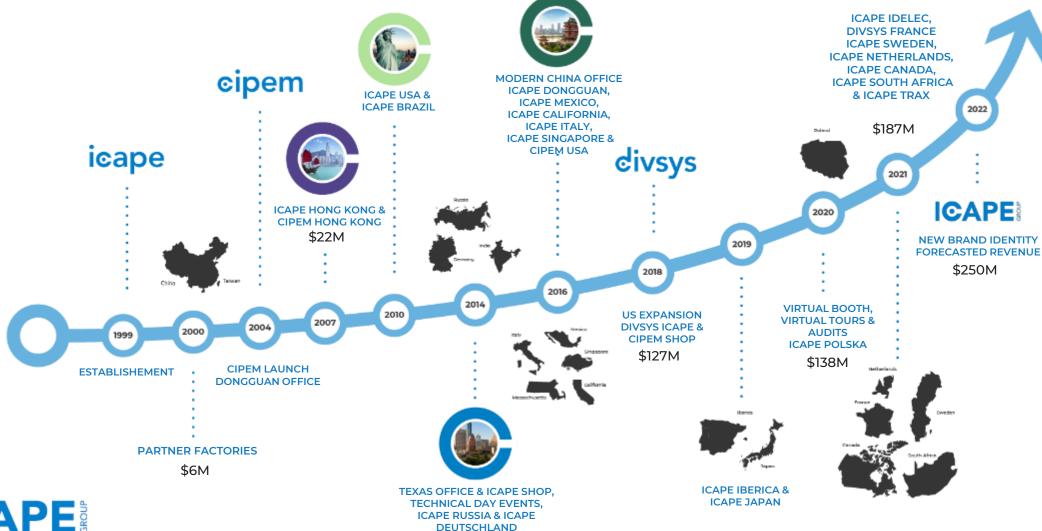






PART 1 Timeline & Key Figures

OUR TIMELINE



\$93M



KEY FIGURES

26

WORLDWIDE ORGANIZATION



23 SALES UNITS 3 SERVICES OFFICES (France, USA, China) 600

GLOBAL TEAM



MULTILINGUAL CUSTOMER SERVICE

187

SALES REVENUE

2 3

\$187M REVENUE 20% ANNUAL GROWTH 3,000 CLIENTS

80

PARTNER FACTORIES



80+ FACTORIES IN NORTH AMERICA, SOUTH AFRICA, EUROPE & ASIA 26

CIRCUIT BOARDS



26 MILLION CIRCUIT BOARDS DELIVERED PER MONTH 6

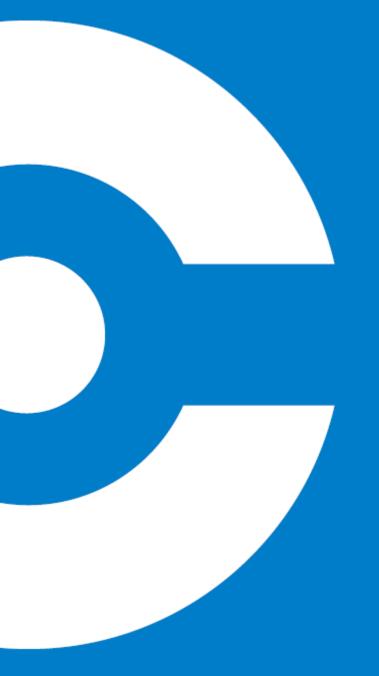
TECHNICAL PARTS



6MILLION CUSTOM MADETECHNICAL PARTSDELIVERED PERMONTH

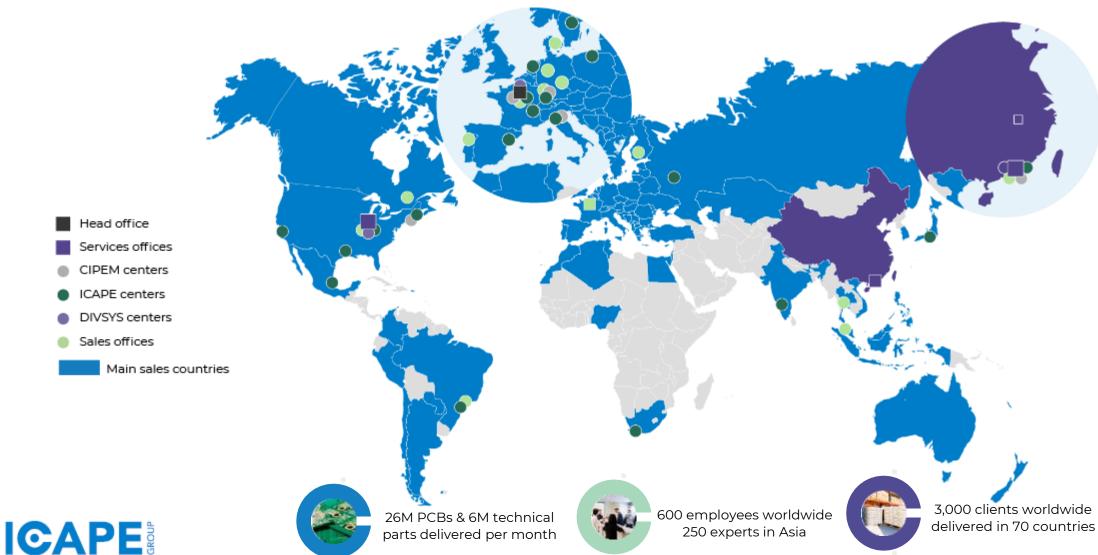






PART 2 Global & Local Presence

GLOBAL PRESENCE



LOCAL PRESENCE

26 Business Units

ICAPE Group counts 26
Business Units around
the world.

Each facility looks after different areas or different functions within the overall group.

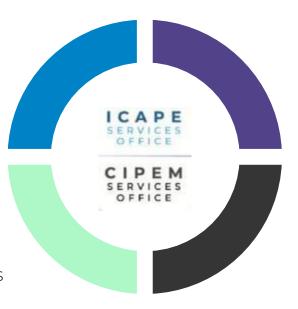
ICAPE and CIPEM have complementary activities and separate teams. This organization brings a lot of potential business opportunities to our customers all around the world.

EUROPE - ICAPE

- ICAPE FRANCE
- ICAPE DEUTSCHLAND
- ICAPE ITALIA
- ICAPE IBERICA
- ICAPE POLSKA
- ICAPE SWEDEN
- ICAPE NETHERLANDS
- ICAPE RUSSIA
- ICAPE IDELEC

ASIA & AFRICA - ICAPE

- ICAPE HONG KONG
- ICAPE DONGGUAN
- ICAPE CHANGAN EXPRESS
- ICAPE INDIA
- ICAPEJAPAN
- ICAPETRAX
- ICAPESOUTH AFRICA



AMERICAS - ICAPE

- ICAPEUSA •
- DIVSYS ICAPE •
- ICAPECALIFORNIA
 - ICAPECANADA •
 - ICAPE MEXICO •
 - ICAPEBRAZIL •

WORLD - CIPEM

- CIPEM HONG KONG
 - CIPEM FRANCE
 - CIPEM USA •
 - **DIVSYS FRANCE** •



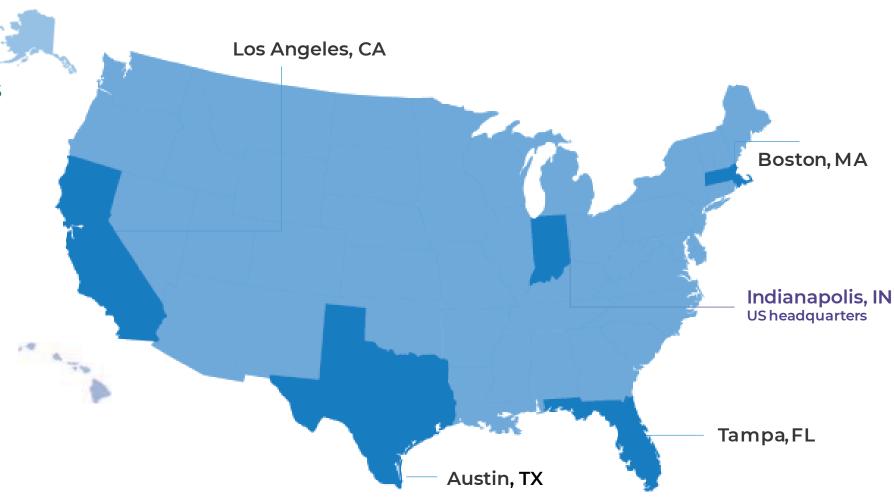
U.S. SERVICES OFFICE

AT THE HEART OF US ELECTRONICS

Our office of **expert services** is located in the historical center of the PCB industry in the United States, in the **state of Indiana**. This large and modern service center is located less than 3 hours from Chicago, IL. This very central and well-served location allows us to reach all of our American business units **(CA, TX, FL &MA)**.

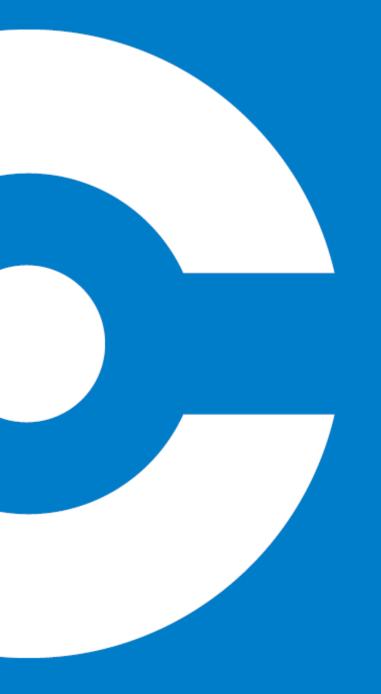
EXPERT STAFF & SERVICES

Our team of engineers has decades of hands-on experience in PCB design and fabrication. We have a complete set of services directly in the USA: purchasing, customer service, engineering, quality & supply chain.









PART 3 Circuit Boards & Technical Parts

leape circuit boards



HIGH-DENSITY CONNECTION - HDI

• HDI with 1,2or 3 levels or ELIC (Every Layer Interconnect) construction (with laser micro vias)



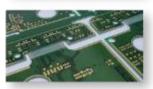
RIGID-FI FX

- · Standard products (4-6L), FR4, photo-sensitive Solder Mask
- · Special types (thick copper, thin core, hard gold, etc)
- · High layer count (8 to 20 layers)



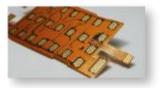
ALUMINUM (IMS)

· Power & Low-Cost lighting applications



SEMI-FLEX

- · Economic 3D PCB in FR4 (I-4L)
 - · Lamination/routing process, cost advantage vs Rigid-Flex



FLEX

- · Standard products (4-6L), FR4, photo-sensitive Solder Mask
- · Special types (thick copper, thin core, hard gold, etc)
 - · High layer count (8 to 20 layers)

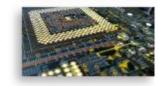


 Power Electronics · High layer count (up to 64 layers)



MULTILAYER

· Standard products (4-6L), FR4, photo-sensitive Solder Mask · Special types (thick copper, thin core, hard gold, etc) · High layer count (8 to 64 layers) · Lamination/routing process, cost advantage vs Rigid-Flex



- - MICROWAVE/RF •

· Radio frequency and antenna applications



DOUBLE-SIDED PTH

 High-density products Special types



SINGLE-SIDED & DOUBLE-SIDED STH

· With conductive jumpers: carbon, silver, or copper pastes · Raw material on metallic base: aluminum, copper, steel · Silver Through Holes (STH) or Copper Paste Through Holes (CPTH)





cipem CUSTOM PARTS



CABLES & CONNECTORS

- · Customized Cable Assemblies & Common Cables Assemblies
- · Wire Harnesses & Customized Connectors



ADAPTERS

- · Wall Mount Adapters & Interchangeable Adapters
- Desktop Adapters & Open Frame Power & LED Drivers



TRANSFORMERS & COILS

- High & Low Frequency Transformers
- · Air Coils & Filters & Toroids, Coils & Inductors



KEYPADS

- Membrane Switch Keypads
- · Overlays & Silicone Keypads



BATTERIES

- · Li-ion & Li-Po & Ni-Mh & Lead Acid
- Primary Batteries



DISPLAYS

- · TFT & VA Type
- TN & HTN & STN & FSTN & DFSTN Types



PLASTIC & SILICONE

- · Plastic Injection Parts & Plastic Injection Molding
- Silicone Mechanical Parts



METAL

- · Stampings Parts
- Shields & Heatsinks

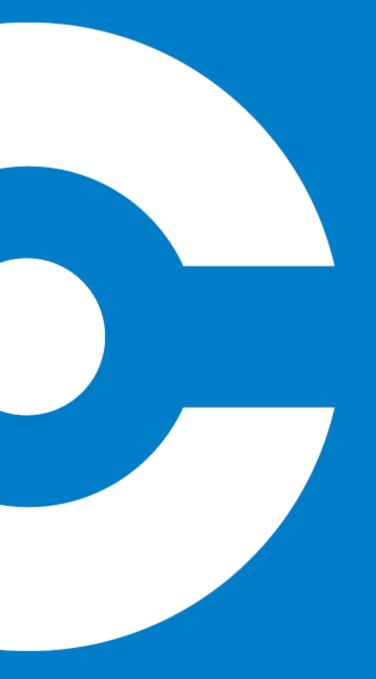


REMOTE CONTROL UNITS

- · IR InfraRed
- BT Bluetooth & RF Radio Frequency

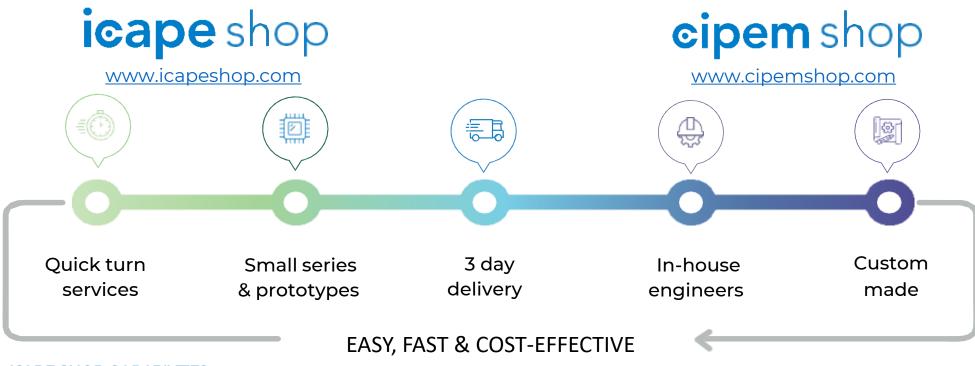






PART 4 Our Online Shops

TWO ONLINE SHOPS



ICAPE SHOP CAPABILITIES

flex & rigid-flex, HDI, single-sided, double-sided plated thru holes, multilayer & aluminum

CIPEM SHOP CAPABILITIES

3d printing, metal & plastic cnc/vc, Connectors, displays, fan & heatsinks, power supplies, cables & wires, STD-001certifications

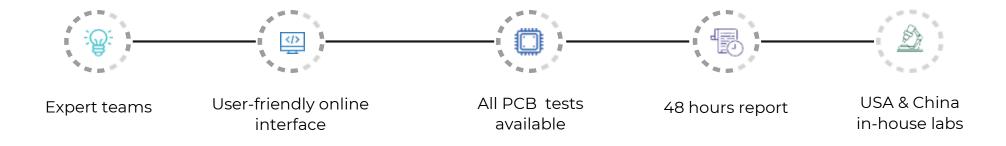


PCB LAB TESTING - ONLINE

Do you want the confidence that comes from buying a quality board?

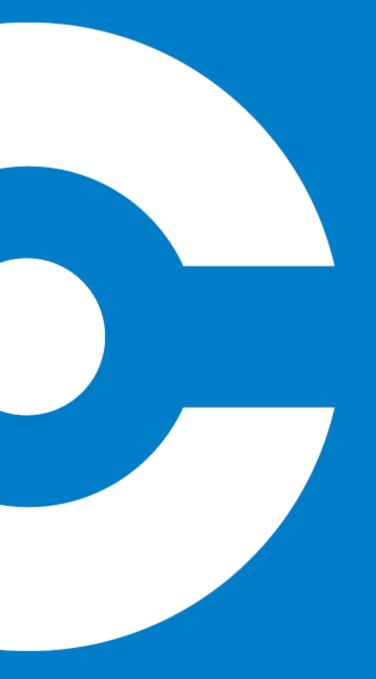
LAB SHOP IS HERE FOR YOU!

Our in-house laboratories, available online on our LAB Shop, allow us to inspect the boards coming from ICAPE Shop but also to offer stand-alone services for all non-ICAPE Shop customers. **Available on icapeshop.com**

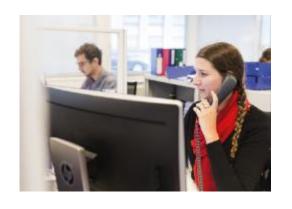








PART 5 Our Areas of Expertise



Sales Support

- **26 business units** in 16 countries & multilingual teams
- Team of experienced sales assistants & available 24/7
- Price within 24h (max 48h for special cases)
- Prototype quotations within 1h

Customer-centric focus is what gets the job over the goal line!



Purchasing

- 80 partner suppliers based on trust & improvement
- AVL (approved vendors list) updated every 3 months
- Constant price negotiation & competitive price offer

We have a solution for all request: all techno, volume, and price





Design & Engineering

- Technical files opening and check versus design rules
- TQ (technical question), if needed, will be sent to the customer after files analysis
- Ucamco integr8tor (design-rule, DFM, capability checks & QED report)
- Capability to realize Designs of PCBs, complete products, reverse engineering...

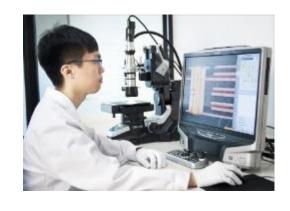




Quality

- Reducing the number of iterations to achieve fast production-ready status
- Monthly monitoring to ensure quality performance of our partner suppliers
- Inspectors on our partner factories' sites every day





In-house Labs

- **\$4M investment** in our in-house labs
- Two leading-edge test labs in USA & China
- We test the PCB batch we procure to guarantee an exact match with the design file

High quality & neutrality from our AVL suppliers go hand in hand



Finance & Insurance

- Solid financial organization with several insurance policies
- Third party liability insurance up to 16 million dollars
- Responsible for our clients' damages or losses





Supply Chain

- Global team & forwarders to ensure best lead times!
- Numerous platforms in Europe, Asia, north & south America
- Different incoterms (FOB, FCA, DAP, DDP)
- Inventory management (VMI & CMI)
- Strategic network diverse responses with air freight, railway, sea & ground
- Consolidation solution offering low prices for sea & land transport

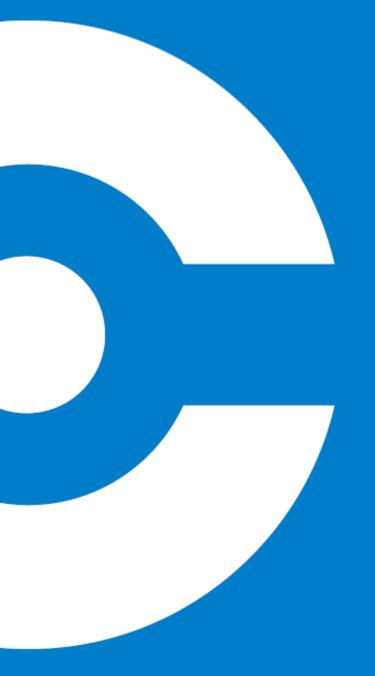


Ethics

- Strong core values for a sustainable development
- Ethics code available on our website (<u>www.icape-group.com</u>)
- Ethical requirements from our employees & partners







PART 6 Our Virtual Offer

VIRTUAL BOOTH







VIRTUAL BOOTH

- . 24/7
- LIVE CHAT
- TECHNICAL CONTENT
- PRODUCT INFO
- FREE **WEBINARS**
- PCB MANUFACTURING VIDEO SERIES
- INSIDE STORIES: OUR EXPERT SERVICES

Click here to access our virtual booth



VIRTUAL TOURS

FACTORY TOURS







VISIT OUR FACTORIES FROM HOME

- ICAPE PCB PARTNER FACTORIES
- CIPEM TECHNICAL PART PARTNER FACTORIES
- HOTSPOTS WITH PHOTOS & VIDEOS
- ALL MANUFACTURING PROCESSES
- HIGH RESOLUTION

Contact your <u>local sales representative</u> to virtually tour our partner factories



VIRTUAL AUDITS







•	REMOTE AUDITING				
•	NO NEED TO TRAVEL				
•	REDUCE CARBON FOOTPRINT				
•	SAVE TIME FOR CLIENTS				
•	IPC & ISO EXPERT STAFF LOCALLY				

Contact your <u>local sales representative</u> to schedule a virtual audit



VIRTUAL QUALITY

VIRTUAL QUALITY CLAIM HANDLING



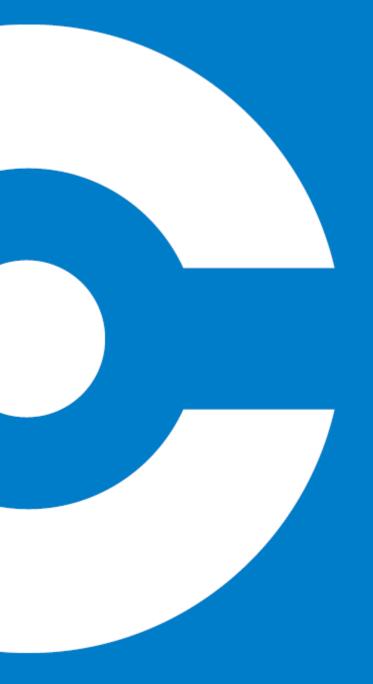


- 230 EXPERTS NEAR OR DIRECTLY AT OUR PARTNER FACTORIES
- QUALITY INSPECTORS & QUALITY ENGINEERS
- ICAPE & CIPEM FACTORIES
- THROUGH VIDEO CHATTING SERVICES

Contact your <u>local sales representative</u> to organize a virtual quality claim handling







PART 7 Our Labs

U.S. IN-HOUSE LAB

DIVSYS-ICAPE's fully equipped laboratory offers a complete range of testing services for both bare and assembled printed circuit boards, engineering and reworks. Our inhouse lab inspects the boards we procure to guarantee an exact match with the design file while offering standalone services to detect a wide range of manufacturing defects. Our laboratory reports are not just an exercise in metrics but provide an "approval for use" report with the results.

The laboratory tests include:





X-RAY FLUORESCENCE

(SURFACE FINISH THICKNESS)
The thickness of plating down to 0.1 micro inch



ION CHROMATOGRAPHY

(CLEANLINESS BY IDENTIFYING SPECIFIC IONS)
Measures the specific ions in the contamination & concentration of those ions



MICRO-SECTION ANALYSIS

(COPPER THICKNESS & HOLE QUALITY) thermal stress micro-section (after solder float)



BARE BOARD TEST

(OPENS, SHORTS & IMPEDANCE) flying probe bare board tester - measures opens & shorts against the design netlist



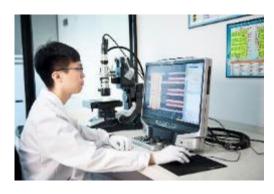
X-RAY INSPECTION

(FOR PRODUCTION APPLICATIONS) detects a wide range of manufacturing defects: BGA, QFN and IGBT attachment, PTH filling, interfacial voiding, component cracking & counterfeit device screening.

CHINA IN-HOUSE LAB



MODERN MACHINES TO PERFORM ANALYSIS



MICRO SECTION
Digital Microscope
(Keyence VHX5000)
Sample &
Grinder Machine



X-Ray System
(Fisher XDML PCB 200)
Layer thickness
measurement



CONTAMINATION
TESTER
(Metronelec CT100-L)
verify ionic
contamination level

IONIC



TEMPERATURE
HUMIDITY CHAMBER
Chamber
(GWS EK-04)
Aging test



THERMAL SHOCK
Chamber
(ESPEC TSE 12)
Thermal Stress



CHINA IN-HOUSE LAB









TG TESTER (TA Instruments DISCOVERY DSC25)

Control TG of base raw material FR4

WETTING BALANCE (METRONELEC ST88)

Solderability test

SOLDER POTS (Asida)
Thermal stress and solder

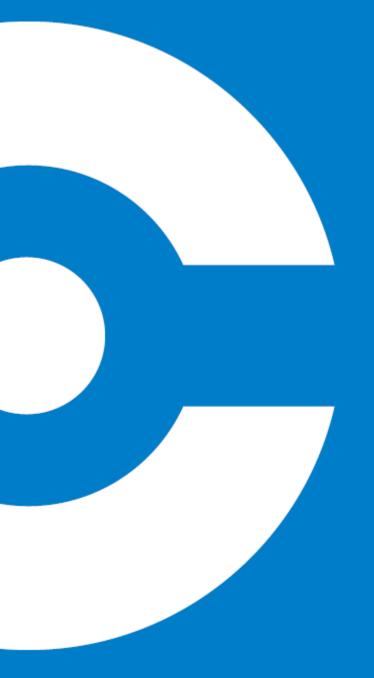
float tests

2D MEASUREMENT (KEYENCE 6225)

Bow & Twist, Roughness, Mechanical, V-Cut, holes diameters





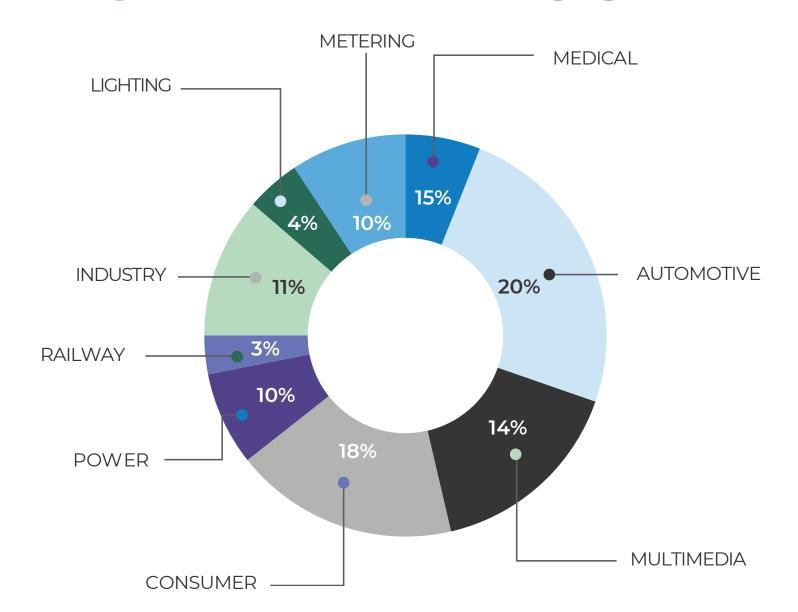


PART 8 Sales Revenue

REVENUE PER CONTINENT

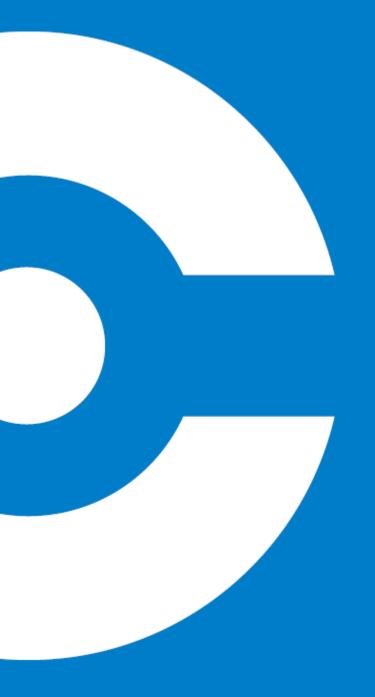


REVENUE PER INDUSTRY









PART 9 Customer references

CUSTOMER REFERENCE























































































































CUSTOMER AMERICAS

A LIMITED LIST OF OUR NORTH & SOUTH AMERICAN CLIENTS

































THANK YOU

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