CHIPNL Competence Centre

Portfolio of Services and Technologies in The Netherlands

Company	Brief Description	Main Services	Website
Ampleon	Ampleon Cooperatief is a global leader in RF power semiconductors, delivers cutting-edge LDMOS and GaN-based solutions. Their technology powers everything from 5G base stations to industrial heating and medical devices	RF power transistor and module development (LDMOS and GaN). Application-specific RF power solutions and reference designs	www.ampleon.com
Admesy	Admesy is a specialist in metrology machines for light, imaging, and display measurements. Their devices, ranging from spectrometers to imaging colorimeters, are used globally in display testing, production lines, and R&D environments	Measurement instruments, spectrometers, colorimeters, luminance meter, and imaging systems. Display testing, LED characterization, and color calibration. Integration for production lines	www.admesy.com
Altum RF	Altum RF designs, manufactures, and delivers high-performance RF to millimeter-wave components for advanced electronics systems which have demanding performance requirements. Their solutions serve advanced markets such as satellite communications, 5G infrastructure, aerospace, and defense	Design of RF components. Custom design services of monolithic microwave integrated circuit. High-frequency engineering solutions	www.altumrf.com
Aluvia Photonics	Aluvia Photonics is a pioneering provider of photonic integrated circuit based on aluminium oxide platform. Founded in 2022 as a spin-off from the University of Twente, their technology is ideal for applications in quantum computing, ICT, and biomedical	AlOx-based PICs, multi-project wafers, dedicated runs, custom process development	https://aluviaphotonics.com/
AntenneX	AntenneX is a developer of wireless connector equipment designed for measuring integrated antennas. Founded in 2021, AntenneX offers measurement services and products including millimeter-wave dielectric characterization systems and reverberation chambers. Their solutions simplify antenna measurements and automate testing	Measurement services for high-frequency antenna systems, including power-added efficiency, RF, noise figure, and ACLR	https://antennex.tech/
ASM	ASM is a global supplier of wafer processing equipment for semiconductor manufacturers, focusing on the deposition of thin films. Established in 1968, ASM has a legacy of innovation in technologies such as atomic layer deposition, epitaxy, silicon carbide, and	Deposition equipment, atomic layer deposition and epitaxy machines, PECVD machines	https://www.asm.com
ASML	ASML is a Dutch multinational corporation and the world's leading supplier of photolithography systems for the semiconductor industry. Founded in 1984, ASML specializes in developing and manufacturing machines that are essential for producing integrated circuits. They are the sole supplier of extreme ultraviolet lithography machines, which are crucial for manufacturing advanced chips	Lithography systems, metrology systems, computational lithography, EUV and DUV lithography machines, metrology and inspection machines	https://www.asml.com
Axign	Axign, part of Monolithic Power Systems, is a fabless semiconductor company based in Enschede. It specializes in high-fidelity audio amplifier systems using its patented Digital Loop technology. Axign's mission is to simplify and enhance audio systems globally through innovative mixed-signal ICs	Design of high-fidelity digital audio amplifier ICs. Development of mixed-signal IC	www.axign.nl
Teledyne DALSA	Teledyne DALSA (formerly known as Axiom IC) is a fabless semiconductor company specializing in high-performance CMOS/electronics mixed-signal integrated circuits. As part of Teledyne DALSA, Axiom IC focuses on delivering cutting-edge solutions for various applications, including imaging and sensing technologies	Analog, digital, mixed-Signal, RF IC design services. Feasibility studies, embedded software and circuit board design services	www.teledynedalsa.com
Besi	BE Semiconductor Industries (Besi) is a leading supplier of semiconductor assembly equipment for the global semiconductor and electronics industries. Headquartered in Duiven, Netherlands, Besi develops advanced assembly processes and equipment for leadframe, substrate, and wafer-level packaging applications. Their customers include leading semiconductor manufacturers, assembly subcontractors, and electronics companies	Advanced assembly equipment, die attach, packaging, and plating systems	https://www.besi.com/
Boschman Advanced Packaging	Boschman Advanced Packaging is a high-tech, solution-driven Dutch company focusing on advanced packaging solutions. Founded in 1987, Boschman provides a unique one-stop-shop concept from idea to industrialization, offering customers a single point of contact for all packaging needs. They specialize in the development and supply of advanced transfer molding and sintering systems, including technologies like film assisted molding. Boschman's expertise extends to package development, assembly services, and production equipment, serving industries such as automotive, medical, industrial, and renewables	One-stop-shop for advanced packaging solutions. From design, assemble, to high yield production. 3D packages, MEMS sensors, power modules, and optical packages	www.boschman.nl/
Bouman	Bouman Industries has been a trusted supplier to the high-tech manufacturing industry for over 65 years. Based in Almelo, it specializes in complex machine construction, turnkey systems, and precision components for sectors like pharma, offshore, aerospace, and food processing	Design and construction of complex machines and systems. Precision machining and component manufacturing	www.boumanindustries.nl
Bright Photonics	Bright Photonics operates as a design house dedicated to the development and prototyping of photonic integrated circuits. Their innovative approach to photonics enables advancements in optical communication and sensing technologies	Design services for photonic integrated circuits, PDK development for foundries, DRC, custom-made building blocks, licensed building blocks (AWG, MMI, tapers) application requirements to circuit design, application-specific photonics ICs and foundry or multi-project wafer runs	https://brightphotonics.eu/services
Bruco IC	Bruco IC is a fabless design center with a strong focus on RF IC, analog/mixed-signal IC design, and RF power application design. Bruco IC's expertise lies in creating high-performance integrated circuits for various industries, including automotive and industrial applications	RF IC design, analog/mixed signal IC design, RF power application design, RF measurement laboratory and ASIC supply chain	https://bruco-ic.com/
Busch	Busch B.V. is part of the global Busch Vacuum Solutions group. It supplies vacuum pumps, systems, blowers, and compressors for a vast range of industries such as semiconductors, pharmaceuticals, and chemicals	Design and installation of complete vacuum systems, pumps, blowers, and compressors	www.buschvacuum.com
CAPLINQ	CAPLINQ Europe is a specialty chemicals and advanced materials supplier based in the Netherlands. The company focuses on serving the semiconductor, electronics, automotive, and renewable energy industries	Distribution of specialty chemicals and advanced materials	www.caplinq.com
Ceratec	Ceratec Technical Ceramics is a specialist in advanced ceramic components. With over 35 years of expertise, Ceratec develops custom ceramic solutions for semiconductors, aerospace, and industrial applications, offering unmatched durability and precision	Design and manufacturing of custom and high-performance ceramic components. Wear resistance, thermal insulation, and electrical insulation	www.ceratec.nl
Chain-IC	Chain-IC is a mixed-signal system design company that excels in analog and mixed-signal IC design, particularly in data converters and energy harvesting systems. Chain-IC's innovative solutions cater to a wide range of applications, enhancing efficiency and performance in electronic systems	IP cores, design, consultancy, various ADC/DAC topologies design, design of wireless energy harvesting, system integration, qualification and production test, lab validation	https://chain-ic.com
Chilas	Chilas is a cutting-edge laser manufacturer and custom-made laser designer using photonics technology. Chilas produces ultra-narrow linewidth, tunable lasers for applications in quantum communication, LiDAR, and microwave photonics	Development of tunable, narrow-linewidth lasers. Custom-made design, integration, and packaging services	www.chilasbv.com
CITC	Chip Integration Technology Center (CITC) is a research and development center focused on advancing chip integration technologies. CITC collaborates with industry partners to develop innovative solutions for semiconductor packaging and integration, enhancing the performance and reliability of electronic systems	Chip packaging and integration technology, access to lab infrastructure and state-of-the-art equipment, knowledge sharing about integrated chip technology. Thermal, cross-sectioning, and x-ray testing, chip packaging and integration technology, access to lab infrastructure and state-of-the-art equipment, integrated chip technology	www.citc.org
Contecto	Contecto is a developer and manufacturer of hardware, software, and mechanical parts, primarily serving SMEs. They provide end-to-end solutions from product idea to series production, ensuring customization and flexibility. Contecto is ISO 9001 certified, highlighting their commitment to quality and reliability in product development and manufacturing	Product development, electronics manufacturing services, prototyping ans testing solutions, assembly of all types of PCBs	www.contecto.nl/nl
Delft Semiconductor	Delft Semiconductor is a fabless IC design house specializing in high-performance analog and mixed-signal IC design. The company focuses on precision sensor interfacing, data conversion, and power management solutions. Delft Semiconductor is known for its innovative and high-quality IC designs	Mixed-signal IC design, precision sensor interfacing, design and layout, layout parasitic extraction, product definition and feasibility, product validation and characterization	https://delftsemiconductor.com/
DEMCON	DEMCON is a high-tech company that develops and manufactures innovative solutions for various markets, including aerospace, life sciences, healthcare, energy, and defense. Founded in 1993, DEMCON combines technological expertise with entrepreneurial spirit to create high-quality, complex systems and products	Automation systems and custom solutions, 3D peek printing, metal injection moulding, industrial automation, assembly and testing, process development	https://www.demcon.com
DoMicro	DoMicro specializes in flexible hybrid electronics and micro-assembly. It offers R&D services, small-series production, and system integration using advanced inkjet printing, 3D packaging, and nanotechnology. DoMicro supports innovation in wearables, solar, and printed electronics, operating from an ISO 7 cleanroom environment	Flexible hybrid electronics development. Inkjet printing, 3D packaging, and micro-assembly. Prototyping, and small-series production	https://domicro.nl
Else Kooi Laboratory @TU Delft	Else Kooi Laboratory provides micro fabrication capabilities that facilitate excellence in (sub)micro-fabrication, enable customers to test out concepts that may lead to business successes and build a bridge between academia and industry. The lab is superbly equipped for micro-manufacturing, micro-electromechanical systems and working with flexible substrates. It has a class 100 (ISO 5) cleanroom providing a fully equipped processing environment from mask making to silicon manipulation to metallisation	Development of fabrication processes. Prototyping and fabrication of small scale units. It accommodates non-IC compatible materials. IC processing line with bipolar/CMOS capability (1 um) and MEMS processing	www.tudelft.nl/en/eemcs/research/facilities/else-kooi-lab

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Epiphany Design	Epiphany Design is a photonic design house focused on the design and prototyping of photonic integrated circuits. Epiphany Design's expertise in photonics drives innovation in optical communication and sensing technologies	Design and simulation of photonic integrated circuits using industry-standard design tools. Optimization of PIC layouts for performance, manufacturability, and reliability	www.epiphany-design.com/
EquipIC Supply Chain	EquipIC Supply Chain is an ASIC service provider offering comprehensive IC design support, foundry access, manufacturing services, assembly, and test solutions. EquipIC Supply Chain is ISO 9001 certified, ensuring high-quality standards in their operations. Their services span the entire supply chain, making them a reliable partner for semiconductor manufacturing	Feasibility studies, custom IC design, access to submicron technology at multiple foundries, assembly, bumping, flip-chip and final test services. Packaging solutions based on lead frames (QFN, QFP) or substrates (LGA, BGA), multiple chip packages, wafer level packaging using bumping, TSV, ceramic, or optical windows solutions. It offers production test solutions based on Teradyne J750 and Flex-family testers for wafer level and final test	https://equipic.com/
Eurofins MASER	Eurofins MASER is an independent engineering service company offering reliability testing and failure analysis services to the semiconductor and electronic systems industry. Founded in 1993 and headquartered in Enschede, Eurofins MASER is ISO 9001:2015 and ISO/IEC 17025:2017 certified. They support various clients, including fabless semiconductor manufacturers, IC design houses, and OEMs	Reliability test, failure analysis, qualification, ESD & latch-up, FIB circuit edit service, advanced failure analysis	www.maserengineering.eu/
European Chips Design Platform	The European Chips Design Platform, created under the European Chips Act, aims to boost Europe's semiconductor innovation by supporting fabless startups, SMEs, and research institutions. It offers cloud-based access to design tools, IP libraries, training, pilot technologies, and funding. The platform's mission is to democratize chip design, reduce barriers, and foster a competitive, sovereign European semiconductor ecosystem	Access to commercial and open-source EDA tools and IP. Training, mentoring, and startup acceleration programs. Integration with pilot lines for chip fabrication, packaging, and testing. Support for securing capital	https://eurocdp.eu/
Fastmicro	Fastmicro is a high-tech company specializing in contamination control devices designed for the microtechnology industry. Founded in 2019 and headquartered in Geldrop, Netherlands, Fastmicro offers advanced particle measuring systems, including sample scanners, particle defect inspection systems, and particle fallout scanners using dark field metrology. Their solutions enable fast and quantitative surface particle measurements, empowering process quality engineers to enhance cleanliness processes	Particle measurement and control solutions at microscale. Particle detection systems	www.fast-micro.com/
HDL Works	HDL Works, founded in 2004 and headquartered in Ede, Netherlands, develops intuitive tools for HDL design and FPGA/PCB verification. Its products such as EASE and HDL Companion support graphical and text-based design entry, making it easier to manage complex digital designs	Design and verification tools for VHDL/Verilog, including graphical design, linting, and FPGA/PCB pin assignment verification. Also offers custom software development for ASIC/FPGA workflows	www.hdlworks.com/index.html
Holst Centre	Holst Centre is a research and innovation partner specializing in health technologies, flexible and wireless electronics. Powered by the shared expertise of IMEC and TNO, Holst Centre focuses on creating technology that improves the quality of life. Located at the High Tech Campus in Eindhoven, they collaborate with over 50 industrial partners and engage in numerous long-term funded projects	Electronics and photonics characterization and testing. Broad range of services in flexible electronics, wireless sensor technologies, health patches, and integrated photonics	https://www.holstcentre.com
IMEC The Netherlands	IMEC The Netherlands is a independent R&D powerhouse for nanoelectronics and digital technologies. It focuses on pre-competitive research, chip innovation, and sustainability. IMEC collaborates with industry, academia, and governments to develop next-gen technologies in health, energy, mobility, and AI, among others	R&D services in nanoelectronics and digital technologies. Chip design and foundry services for scaling innovations. Prototyping, IP development, and pilot production	www.imec-int.com/en/the-netherlands
IC-link by IMEC	IC-link by IMEC is an ASIC solutions provider that offers full lifecycle ASIC development, including design, packaging, testing, and volume production. IC-link leverages its extensive experience and resources to deliver high-quality ASIC solutions for various industries	Advanced process node design, IP blocks from various partners, white box IP, advanced package design services. Complete ASIC solution provider managing the full product lifecycle. IMEC is a VCA member of TSMC in Europe, and provides support to companies to enable high-volume manufacturing	www.imeciclink.com/en/asic-services
IMS	Innovative Manufacturing Solutions (IMS) is a high precision manufacturing equipment supplier. A diversified supplier of industrial products, specializing in the design, development, and manufacturing of complex systems. IMS serves various industries, including automotive, medical, and industrial markets. Their expertise includes the development of high-quality, automated production solutions for the most precise products. With 20+ years of experience, a loyal customer base and a team of 130+ engineers	Metrology solutions and machines. Inspection systems	www.ims.nl
ITEC	ITEC, a spin-off from Philips and now a subsidiary of Nexperia, provides high-speed, high-accuracy semiconductor assembly and test equipment. ITEC combines advanced mechatronics,inspection algorithms, and smart manufacturing	Assembly and test equipment. High-speed die bonding and sorting systems. Automated optical inspection and smart manufacturing software	www.itecequipment.com
Kavli Nanolab @TU Delft	Kavli Nanolab Delft is the cleanroom and research facility for nanofabrication at TU Delft. It counts on the cleanroom facilities of the Van Leeuwenhoek Laboratory, one of the largest nanotechnology research cleanroom in Europe. It is a partner of the NanoLabNL (www.nanolab.nl), the Dutch national facility for nanotechnology research that provides a full-service for R&D in nanotechnology. The Nanolab provides a technological infrastructure for the fabrication and inspection of functional nanostructures. The facility specializes in high-resolution charged particle-beam structuring down to sub-10 nm details, fabrication of quantum devices and bio imaging and super resolution microscopy	Fabrication and prototyping of nanostructures and devices based on techniques such as nanolithography, thin film deposition, plasma processing, and inspection. The field combines physics, materials science, chemistry, biology, and instrumentation	www.tudelft.nl/tnw/over-faculteit/afdelingen/quantum-nanoscience/kavli-nanolab-delft
Liad Electronics	Liad Electronics is a flexible electronic manufacturing services provider based in Netherlands. With over 35 years of experience, Liad Electronics specializes in assembling printed circuit boards and supplying complete products for various industries. Their services include testing, programming, and final assembly, ensuring high-quality electronic products	PCB assembly, cable assembly, electronics box build, overmoulding, testing, and programming	https://www.liad.nl/
LioniX International	LioniX International is a leading global provider of customized microsystem solutions, specializing in photonic integrated circuits and MEMS. They offer vertically integrated solutions from design to delivery, leveraging their proprietary silicon nitride waveguide technology for ultra-low loss PICs. LioniX serves various markets, including life sciences, telecommunications, and space	Pure-play silicon nitride foundry services from prototype to medium-volume production, MPW services, integration of active components such as high-speed actuators and modulators, custom solutions, and MEMS services for photonics	https://www.lionix-international.com/
Luceda Photonics	Luceda specializes in PIC design software. Its IPKISS platform enables design automation and simulation for photonics, supporting many foundry-specific PDKs and seamless integration with Python workflows	Provides software and services for PIC design. Its IPKISS platform supports design automation, simulation, and foundry PDK integration for scalable photonics development	www.lucedaphotonics.com/
MASER - Eurofins	Eurofins MASER is a Netherlands-based engineering service company offering reliability testing and failure analysis for semiconductors and electronic systems, serving fabless, OEM, and EMS clients	Reliability testing (ESD, latch-up). Advanced failure analysis. Circuit edit and nanoprobing. ISO/IEC 17025-accredited lab services	www.maserengineering.eu/
Masevon	Masevon is a group of companies that develop and produce advanced high-tech systems for top-tier customers in the Dutch and international markets. Masevon specializes in system development, system integration, assembly, vacuum technology, machining, frame and sheet metal work, and cleanliness. Their philosophy is to simplify complex technologies to make them feasible and usable	Precision parts manufacturing, high-precision tools, advanced assembly equipment	www.masevon.com
MESA+ NanoLab	MESA+ NanoLab is a state-of-the-art nanotechnology research facility at the University of Twente. It provides open-access infrastructure for academic research, R&D activities, and pilot production by companies. The NanoLab features a cleanroom and specialized analysis equipment, supporting groundbreaking research in nanotechnology. It is part of NanoLabNL, the Dutch facility for nanotechnology research	Nanotechnology research, open-access lab facilities, pilot production support	www.utwente.nl/en/mesaplus/nanolab/
MicroAlign	MicroAlign is a deep-tech Dutch startup and spin-off from Eindhoven University of Technology, specializing in alignment technology for connecting multiple optical fibers and photonic integrated chips. Their revolutionary fiber positioning method provides sub-micrometer accuracy, optimizing the quality of optical fiber-to-chip connections for applications in quantum computing and other advanced technologies	Fiber array alignment solutions, optical testing and assembly, active alignment for fiber arrays	https://microalign.nl/
Nanolab@TUe	Nanolab@TUe is an open-access research laboratory at Eindhoven University of Technology, providing state-of-the-art equipment for developing optical chips and other applications based on compound semiconductor technology. The lab features a unique cleanroom and advanced epitaxy machines for crystal growth, supporting both academic research and industrial collaborations. Nanolab@TUe plays a vital role in maintaining the technological lead of the Brainport Region in photonics and nanotechnology	800 m2 cleanroom (ISO-class 6) with state-of-the-art equipment for epitaxial growth of III-V semiconductor nanostructures and micro/nanoprocessing and inspection of passive and active semicoductor devices. Services on epitaxial growth of nanostructures, nanofabrication, and process design	www.tue.nl/en/research/research-labs/nanolabtue
NanoLabNL	NanoLabNL is the Dutch national facility for nanotechnology R&D from basic idea to product. The facilities, knowledge and network in nanotechnology make NanoLabNL the starting point for R&D and small-scale production. Since 2003 they offer the use of facilities and expertise to universities and start-ups. It has 5 locations in The Netherlands	Process and product development and small-scale production. Open laboratory access to realise nano-based projects and products	https://nanolabnl.nl
nanoPHAB	nanoPHAB is a nanophotonics foundry that offers micro- and nanofabrication services for a wide range of photonics devices. As a spin-off from the Eindhoven University of Technology, nanoPHAB specializes in the design and fabrication of III-V semiconductor, silicon, dielectrics, polymers, and metal nano devices for sensing, lighting, energy, medical, and telecom applications. Their services are ideal for universities and SMEs, providing cost-effective and efficient fabrication solutions	Pure-play nanophotonics foundry that provides micro- and nanofabrication services for photonics devices and for research and commercial solutions based on III-V, Si, and nitrides nanotechnologies. Part of nanolab@Tue	www.nanophab.com/

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Nazca Design	Nazca Design, which is enabled and supported by Bright Photonics, simplifies and accelerates PIC design development. It is one of very few open-source, Python-based, solutions for photonic IC design. It supports hierarchical design, custom PDKs, and integrates with KLayout for mask layout visualization	Open-source design platform for PIC. Services include PDK development, design rule checking, and layout automation, with support for multiple photonic technologies and foundries	https://nazca-design.org/
Nearfield Instruments	Nearfield Instruments is a semiconductor metrology equipment company that develops and delivers innovative process control metrology solutions for the advanced semiconductor manufacturing industry. Founded in 2016 as a spin-off from TNO, Nearfield Instruments focuses on high-throughput atomic force microscopy systems for atom-scale resolution 3-D metrology	Metrology solutions and machines (quadra probe)	www.nearfieldinstruments.com
New Origin	New Origin is an independent pure-play foundry for silicon nitride photonic chips, based in Enschede, Netherlands. Founded in 2022, with operations expected by 2027/2028, New Origin focuses on producing high-quality photonic chips with low loss propagation and the ability to handle wavelengths from visible to near-infrared. Their state-of-the-art wafer manufacturing process supports applications in optical communication, HPC, bio-sensing, and quantum technologies	Pure-play foundry for large volume production of photonics chips based on silicon nitride	https://neworigin.eu/en/
Neways Advanced Microsystems	Neways Advanced Microsystems is a technology innovation partner specializing in the development and production of highly complex electronics for demanding industries. With over 500 engineers, Neways offers design, prototyping, industrial scale-up, and re-manufacturing services. Their solutions cater to sectors such as semiconductors, defense, mobility, and connectivity	Packaging and assembly services mainly on: wafer processing, ceramic/plastic fast turn prototyping, small/medium volume QFN/SOIC packages, product and process qualification, component supply management. Development and production of electrical control units for lithography systems, custom-designed control units	https://newayselectronics.com/
Nexperia	Nexperia, headquartered in the Netherlands, is a global semiconductor manufacturer specializing in essential components such as diodes, transistors, and logic circuits. With over 12,500 employees and more than 100 billion units shipped annually, Nexperia serves a wide range of industries including automotive, industrial, mobile, and consumer electronics	Production of essential semiconductors such as diodes, transistors, MOSFETs, and logic ICs. High-volume, high-efficiency manufacturing	www.nexperia.com
NTS	NTS is a first-tier contract manufacturer that develops, produces, assembles, and tests complex (opto-)mechatronic systems and mechanical modules. NTS serves high-tech OEMs in the semiconductor and analytical markets, accelerating technological innovation	Development, production, assembly and testing of complex (opto-)mechatronic systems and mechanical modules. High-precision, measurement and testing solutions of optical, laser and opto-mechatronic tooling, systems and modules	www.nts-group.nl
NXP	NXP Semiconductors is a leading Dutch semiconductor manufacturing and design company headquartered in Eindhoven. The company specializes in innovative solutions for the automotive, industrial & IoT, mobile, and communications infrastructure markets. NXP has an extensive product portfolio	Provision of microcontrollers and processors. Analog and mixed signal ICs. Audio amplifiers, audio converters, hybrid radio and audio IF demodulators. AC-DC conversion, battery management, integrated switching regulators, lighting driver and controller ICs, and smart switches. Bluetooth, WiFi, and Zigbee modules	https://www.nxp.com/
JePPIX	JePPIX is a European platform that promotes and facilitates the development and industrialization of photonic integrated circuits. It brings together key players across the photonics value chain including foundries, design houses, software providers, and equipment developers to accelerate innovation and commercialization of photonics. JePPIX operates under an open-access, horizontal foundry model, enabling scalable, cost-effective photonics development for a wide range of applications including sensing, quantum, and biomedical technologies	MPW runs, software tools, training and education, design support, ecosystem development, and photonics brokerage services	www.jeppix.eu/
PhiX	PhiX Photonics Assembly is a packaging foundry that provides assembly services and contract manufacturing for photonic integrated circuits and MEMS. PhiX specializes in chip-to-chip hybrid integration, coupling to fiber arrays, and interfacing of DC and RF electrical signals. Their state-of-the-art production facility in Enschede supports the global industrial development of PIC and MEMS enabled modules	Assembly and packaging services for hybrid electronic-photonic integrated circuits, flip-chip die bonding, wire bonding, hybrid assembly, fiber attachment, large scale packaging	https://www.phix.com/
nanoIC Pilot Line	The nanoIC Pilot Line, coordinated by imec Belgium, pushes the boundaries of advanced logic nodes, targeting the sub-2 nm regime, interconnects, and advanced memories. It serves as a bridge between cutting-edge research and industrial-scale production, supporting sectors such as AI, mobility, and healthcare	PDK for advanced logic technologies (N2 (GAA), A14 (GAA), A7 (CFET)). Prototype and pilot production of next-gen memories (eRAM and spin-orbit torque memory) and interconnects. Workforce development and training	www.nanoic-project.eu/en
FAMES Pilot Line	FAMES, coordinated by CEA-Leti France, is the drive to harness fully depleted silicon-on-insulator technology. This platform is tailored for low-power, high-performance applications, enabling innovations in RF, memory, and 3D integration. FAMES aims to deliver energy-efficient solutions that are scalable and adaptable to emerging electronics needs	PDK pathfinding. Prototype of FD-SOI 10 nm and 7 nm. Embedded non-volatile memories. RF components. 3D heterogeneous integration. PMIC components	https://fames-pilot-line.eu/
WBG Pilot Line	WBG, coordinated by CNR Italy, focuses on wide band gap semiconductors such as silicon carbide and gallium nitride. These materials are essential for next-generation power electronics, offering superior efficiency and thermal performance, key for electric vehicles, renewable energy systems, and industrial automation	Advanced package such as system-in-package and 3D IC. PDK access to WBG technologies. Power and RF electronics, SiC and GaN devices prototyping	https://cordis.europa.eu/project/id/101183211
APECS Pilot Line	APECS, coordinated by Fraunhofer Germany, addresses the growing need for advanced packaging and heterogeneous integration. It enables the assembly of complex systems using chiplets and 3D stacking, supporting applications in AI, quantum computing, and secure electronics	Advanced packaging solutions. Chiplet integration. Heterogeneous system design and integration. Fan-out wafer-level packaging. Access to pilot-scale manufacturing for early-stage product development. Characterization, test and reliability. Open-access services for SMEs and start-ups	www.apecs.eu/
PhotonFirst	PhotonFirst is a pioneer in next-generation fiber optic sensing solutions, offering integrated photonics-based sensing technology, fiber coupling, and custom packaging for industrial applications. Their innovative products and services help customers improve performance, increase efficiency, and reduce environmental impact. PhotonFirst combines precise fiber optic sensors with patented chip-based interrogators to deliver accurate, reliable, and scalable solutions	Fiber to chip coupling, custom package designs, edge array, multi-chip integration, high volume	www.photonfirst.com/
PITC	Photonics Integration Technology Center (PITC) is a research and development center dedicated to advancing photonic integration technologies. Their main focus in on test development and prototype packaging. PITC collaborates with industry partners to develop innovative solutions for photonic integrated circuits. Their expertise spans design, prototyping, and testing, making them a key player in the photonics industry	Photonics characterization and testing, PIC design for manufacturability, product and material validation, integration and packaging solutions, research services	https://pitc.nl/
Prodrive Technologies	Prodrive Technologies develops and manufactures advanced electronics, software, and mechatronic systems for sectors such as healthcare, energy, mobility, and semiconductors. Prodrive offers solutions in embedded computing, power conversion, automation, and industrial IoT	Embedded computing, power conversion, and automation systems. Contract manufacturing and product development	https://prodrive-technologies.com
QBayLogic	QBayLogic, a spin-off from the University of Twente, is a FPGA/ASIC design house that leverages functional programming such as Haskell to create high-performance, low-latency digital hardware. Known for developing the open-source Clash compiler, QBayLogic offers custom hardware solutions for embedded systems, edge computing, and data centers	FPGA and ASIC design services. High-performance, low-latency digital hardware. Clash compiler for Haskell-to-HDL translation	https://qbaylogic.com
Qphox	Qphox is a spin-off company from TU Delft specialised in microwave to optical quantum transducers. Its solutions will enable modular approaches to quantum computation by allowing microwave-based quantum processors to be networked together over room temperature fiber-optic networks	Developing quantum transducers that convert microwave quantum signals to optical photons for networking quantum processor	https://qphox.tech/
QuantaMap	QuantaMap, a Dutch deep-tech startup, develops a cryogenic SQUID-on-tip microscope for high-resolution metrology and defect inspection on quantum chips. Their groundbreaking tool non-invasively maps currents, magnetic fields, temperature, and microwave leakage at the nanometre scale, enabling precise qubit diagnostics to improve yield and accelerate quantum hardware scaling	Develop cutting-edge tools for metrology and defect inspection for quantum chips and other quantum hardware	www.quantamap.eu
Quantware	QuantWare is pioneering the democratization of quantum computing by offering scalable, superconducting quantum processors. With an open hardware approach, the company empowers researchers and commercial platforms to build and customize quantum systems more affordably and flexibly. QuantWare's chips are designed to be modular and integrable, making them a foundational building block for the quantum computing ecosystem	Customizable quantum processors and commercial quantum computing platforms	https://www.quantware.com/
Qblox	Qblox specializes in the control infrastructure for quantum computers, delivering high-performance electronics that manage qubit operations with precision and scalability. Their modular control stacks enable synchronization, signal generation, and readout across hundreds of qubits, supporting both academic research and industrial quantum development. Qblox plays a critical role in bridging quantum hardware with software, ensuring reliable and efficient quantum experimentation	Hardware and software for controlling quantum processors, including RF signal generation, synchronization, and readout	https://www.qblox.com/

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QuiX Quantum	QuiX Quantum leads in photonic quantum computing, developing integrated photonic processors that operate at room temperature. Their technology leverages silicon nitride waveguides to deliver low-loss, reconfigurable quantum circuits ideal for applications in simulation, optimization, and machine learning. QuiX offers quantum-as-a-service access and custom photonic solutions, positioning itself at the forefront of scalable, energy-efficient quantum computing solutions	Quantum computing as a service and development of custom photonic circuits	www.quixquantum.com/
QuSoft	QuSoft is the Dutch research center for quantum software, focused on developing algorithms, protocols, and applications that harness the power of quantum computing. Founded by CWI and the University of Amsterdam, QuSoft advances quantum technologies through foundational research, innovation, and collaboration with academia and industry	Develops quantum algorithms, cryptographic protocols, simulations, and applications, offering R&D collaboration, academic training, and industry-focused innovation services	https://qusoft.org/
QuTech	QuTech is a mission-driven Dutch research institute that develops scalable prototypes of quantum computers and a secure quantum internet, combining world-class research, engineering, and education	Development of qubit technologies and full-stack quantum computing research. Industry collaboration, testbeds, and education	https://qutech.nl/
Rapid Photonics	Rapid Photonics specializes in the development of photonic integrated circuits using lithium niobate on insulator technology. Founded in 2022, Rapid offers a novel process that enables fast and cost-effective production of PICs, making them suitable for high-frequency modulators, quantum optics, and neuromorphic photonic circuits. Their technology is 100% CMOS compatible, facilitating seamless scale-up in conventional semiconductor fabs	Production of PICs on thin-film lithium niobate	https://rapidphotonics.com/
RoodMicrotec	RoodMicrotec is a long-established independent provider of semiconductor supply chain services, offering test engineering, qualification, and failure analysis for industrial and automotive markets	Wafer probe and final test. Qualification and reliability testing. Failure and technology analysis	www.roodmicrotec.com/en/
Salland Engineering	Salland Engineering is a test technology and engineering company that provides solutions and services to improve the efficiency and quality of semiconductor testing. Founded in 1992 and headquartered in Zwolle, Salland Engineering is ISO 9001:2015 certified. They offer test program development, load board development, and failure analysis services, and became a subsidiary of Advantest Corporation in 2024	Vast range of test technology and engineering solutions, test instruments, characterization and testing pre-production wafers and devices, test services in electronics, full debugged solutions for running pilot production	https://www.salland.com
SCIL Nanoimprint	SCIL Nanoimprint is a developer of nanoimprint lithography technology, providing systems for patterning nanostructures on large wafers. As a Philips spin-out, SCIL Nanoimprint combines the resolution and accuracy of rigid stamps with the flexibility of soft stamp methods, enabling high-volume production of nanometer resolution patterns for optics and photonics	Nanoimprint lithography solutions and machines (SCIL Nanoimprinter)	https://scil-nano.com/
Sempro	Sempro is an expert in trim & form and singulation solutions for the semiconductor and microelectronics industries. Sempro combines extensive analytical research with the latest technology to create custom solutions for their clients. Their informal organizational culture allows for direct communication and flexible relationships, ensuring reliable and high-performance solutions	Semiconductor equipment manufacturing for trim, form, and singulation solutions	https://sempro.nl/
Settels Savenije	Settels Savenije is a group of companies based in Eindhoven, Netherlands, specializing in the design, industrialization, manufacturing, assembly, and testing of high-tech products, modules, tools, and equipment. They serve an international customer base in the semiconductor, analytics, and research industries. Settels Savenije combines high-level technology with a passion for people, providing practical solutions for complex technical challenges	Engineering of modules and systems. Assembly, test, qualification, and validation of complex systems and modules. Series production of parts. Manufacturing extreme complex parts	https://www.sttls.nl/
Single Quantum	Single Quantum, founded in 2012 as a spin-out from TU Delft, pioneers superconducting nanowire single-photon detectors with >90% detection efficiency, <15 ps timing jitter, and high photon-count rates, making them probably the world's fastest and most sensitive light sensors. Their ecosystem serves several research and industrial labs globally in quantum communication, cryptography, and photonic quantum computing	Develops high-performance, cryogenically cooled single-photon detector systems tailored for quantum communication, imaging, and space applications, offering turnkey hardware and integration support for precise photon detection	www.singlequantum.com
Sioux Technologies	Sioux Technologies develops, integrates, and assembles complex systems using software, electronics, mechatronics, and mathware. Serving industries like semiconductors, medical devices, aerospace, and defense	R&D, integration, and assembly for semiconductor, medical, aerospace, and defense. Software, electronics, mechatronics, and mathware	www.siouxtechnologies.com
Smart Photonics	Smart Photonics is a pure-play InP foundry specializing in the manufacturing of discrete and integrated photonic components on indium phosphide wafers. Founded in 2012 and headquartered at the High Tech Campus in Eindhoven, they offer solutions for data and telecommunication, sensing, and medical applications. Their unique integration technology for InP PICs and extensive process design kit make them a leading player in the photonics industry	Manufacturing of photonic chips based on InP, prototyping and small-scale manufacturing	https://smartphotonics.nl/
SPHERICAL	SPHERICAL Systems is a developer of complex electronic systems for the aerospace industry. They specialize in microchip design innovation, providing advanced technologies that enhance performance and reliability for aerospace applications. SPHERICAL is committed to pushing the boundaries of innovation and delivering power, confidence, and agility to their clients	Design, qualification, assembly, and test of satellite power systems. Design of fault tolerant chips	www.spherical-systems.com
Synopsys	Synopsys, a global leader in silicon-to-systems software design solutions, provides EDA tools, IP, and software security solutions. It plays a pivotal role in enabling AI, autonomous systems, and industry 4.0 through its chip design platforms	EDA software tools. End-to-end design services, including ASIC and SoC design, IP integration, verification, and software security. Offers consulting and implementation support for physical design, verification, and system-level solutions	www.synopsys.com/
SystematIC	SystematIC is a fabless IC design house specializing in analog, digital, and mixed-signal IC design services. They offer comprehensive design solutions, including embedded software and circuit board design, catering to a wide range of applications. Their expertise lies in delivering high-quality, innovative IC designs tailored to meet specific customer needs	Custom ASIC design, turnkey solutions, high voltage technology design, integrated power expertise, sensor interfacing	https://systemat-ic.com/
Technolution	Technolution is a multidisciplinary technology company that provides innovative solutions across various sectors, including mobility, energy, high-tech, and manufacturing. With a strong focus on software and electronics development, Technolution offers services from product design to assembly	In-house assembly for medium series and one-off electronics, advanced instruments, high-assurance solutions, semiconductor manufacturing equipment	www.technolution.com/
Tegra IC	Tegra IC is a versatile IC design company providing analog, digital, mixed-signal, and RF IC design services. They complement their IC design offerings with embedded software and circuit board design services, ensuring a holistic approach to electronic design and development	Custom IC design services for analog, digital, radio frequency, or mixed-signal ASIC and SoC. Analog and digital IP cores. Embedded software and circuit board design services	https://tegraic.com/
TeraNova	TeraNova provides non-destructive solutions for critical dimension metrology and semiconductor characterizations using optical scatterometry and terahertz radiations. These solutions provide crucial information about the quality of the nanostructures and wafers used in photonics, semiconductors, and quantum applications. TeraNova has access to a wide range of state-of-the art equipment for the development of optical and terahertz technologies and for the measurement and characterization of nanostructures	Critical dimension metrology for gratings and thin films, terahertz near field for semiconductor characterization	https://www.teranova.nl/
Thales Nederland	Thales Nederland B.V. is the Dutch subsidiary of the French multinational Thales Group, specializing in high-tech solutions for defense, security, and transportation sectors. It has 3000 employees in Netherlands, focusing on defense, cybersecurity, and advanced PCBs manufacturing	End-to-end integration of complex electronic systems. High-quality PCB manufacturing. Cryogenic cooling systems. Defense and security systems. Cyber threat detection, prevention, and response services. Electronics solutions for transportation systems	www.thalesgroup.com/en/countries/europe/netherlands
Thermo Fisher	Thermo Fisher Scientific is a global leader in serving science, providing innovative solutions across various domains including life sciences, clinical research, and industrial applications. Headquartered in Waltham, Massachusetts and with offices in Eindhoven, Thermo Fisher offers a wide range of products and services, including analytical instruments, laboratory reagents, and clinical development solutions	Electron microscopes (Titan Krios, Talos Arctica), spectroscopy equipment (K-Alpha XPS), sample preparation machines (Vitrobot Mark IV)	www.thermofisher.com
TNO - EUV materials test facility	Advanced lithography equipment operates under challenging conditions. From extreme ultraviolet (EUV) photons, gas flows, plasma and high vacuums to particles and potential degradation. In order to ensure lithography equipment continues its precision work for the longest possible time,TNO offers bespoke lifetime studies and in-depth insight into equipment lifetime management	EUV lightsource for testing, plasma exposures, XPS and other surface analysis techniques	www.tno.nl/en/about-tno/organisation/units/high-tech-industry/semicon-equipment-lifetime/
TNO - Independent Quantum Technology Testing	QITT is an open testing facility that meets the specific market need for an independent, confidential, proprietary test facility. It enables Dutch and European industry to accelerate the engineering cycle of quantum technologies. The facility can accommodate a variety of quantum devices, and can be used to characterise and validate cryogenic chips, quantum processors, cryogenic electronic components, control electronics and software solutions.	Low-noise electronics to enable DC measurements Radio frequency reflectometry circuit from 0-1 GHz Microwave transmission circuit from 4-8 GHz Spectrum analyser and scalar network analyser up to 12 GHz FPGA-based control electronics for qubit measurement and control	www.tno.nl/en/technology-science/facilities/qitt-offers-independent-quantum/
TNO - Quantum sensing testbed	TNO aims to accelerate the introduction of quantum sensors to the market by creating an open test facility where we work with universities, companies and end-users to develop and test quantum sensing technologies	By removing the need to invest in expensive infrastructure, we lower the threshold for developing and testing quantum sensing technology and components	www.tno.nl/en/technology-science/facilities/quantum-sensing/
TNO/UvA - Quantum Application Lab	At the Quantum Application Lab (QAL), organisations can develop quantum computing applications through R&D collaboration	Develop quantum computing applications for your organisation together with TNO in the Quantum Application Lab	www.tno.nl/en/technology-science/facilities/quantum-application-lab-qal/

Company	Brief Description	Main Services	Website
TracXon	TracXon is a spin-off from TNO Holst Centre, focused on scaling hybrid printed electronics into mainstream, sustainable manufacturing. It uses sheet-to-sheet and roll-to-roll printing technologies to produce flexible, high-quality electronics for applications in healthcare, automotive, and consumer products. TracXon emphasizes circular manufacturing and environmental responsibility	Hybrid printed electronics manufacturing. Sheet-to-sheet and roll-to-roll printing. Prototyping and high-volume production	https://www.tracxon.tech
Trymax	Trymax is a manufacturer of plasma-based equipment for industries such as CMOS, MEMS, LED, and wafer-level packaging. Founded in 2003 and headquartered in Nijmegen, Netherlands, Trymax offers customizable NEO platforms for ashing, descum, surface preparation, UV curing, and charge erase. They are ISO 9001 accredited and known for their high-performance and reliable plasma equipment	Equipment solutions for ashing, descum, surface preparation, light etching, cleaning, and UV photoresist curing and charge erase. Solutions for high volume manufacturing, ranging from 100 mm wafer size to 300 mm	www.trymax-semiconductor.com/
VDL ETG	VDL ETG (Enabling Technologies Group) is part of the Dutch VDL Groep, specializing in the design, development, and manufacturing of complex and innovative products and machines. VDL ETG serves high-tech industries, including semiconductor, analytical instruments, and medical systems. Their expertise includes developing vacuum systems, fast handling techniques, and high-precision processes	Advanced precision wafer handlers, particle component testers, industrial products from precision components to advanced finished products	www.vdletg.com/en
VDL RENA Electronica	VDL RENA Electronica is a supplier and manufacturer of LED modules and electronic controls, serving various industries including lighting and industrial equipment. They offer custom-made solutions with a focus on robustness and quality, leveraging their extensive experience and in-house production capabilities. VDL RENA Electronica is part of the VDL Groep, enhancing their position in the high-quality electronics market	Engineering solutions from LED system architecture to electronics and mechanics. PCBA production, software design and management, testing	www.rena-electronica.com/
XIVER	XIVER is Europe's only independent, pure-play MEMS foundry, specializing in the process development, industrialization, and manufacturing of thin-film and MEMS devices. Located at the High Tech Campus in Eindhoven, XIVER leverages decades of innovation and expertise from its Philips heritage to deliver cutting-edge solutions for diverse industries including industrial, medical, photonics, and automotive	Pure-play MEMS foundry services with high-volume capabilities (100K wafers/year), capacitive micromachined ultrasonic transducers, biological MEMS (bioMEMS) devices for microfluidics, microneedles, micropumps, MEAs, and thin film coating, etching, wafer bonding, and metrology	https://xiver.com/#start
Onnes Technologies	Onnes Technologies is a spin-off from Leiden University specializing in cryogenic nano-positioning and vibration isolation systems. Their products are designed for quantum sensing, low-temperature microscopy, and quantum optics applications	Quantum testbed metrology as a service	https://onnestechnologies.com/products/qm-as-a-service/
Qbird	QBird is a Delft-based quantum technology company founded by experts from QuTech and TU Delft. It specializes in quantum-secure communication networks, leveraging quantum key distribution to protect data against current and future cyber threats-including those posed by quantum computers. QBird's technology has been deployed in real-world environments, including the Port of Rotterdam, and is integrated with major telecom infrastructures	Quantum key distribution hardware and software for ultra-secure data transmission. Devices for entanglement generation and multi-point quantum connectivity	https://q-bird.com/
Orange Quantum Systems	Orange Quantum Systems is a Dutch quantum technology company spun out of QuTech, specializing in automated testing solutions for quantum chips. With a mission to accelerate quantum hardware development, OrangeQS provides turnkey equipment and software that enable fast, scalable, and reliable testing of superconducting and semiconductor-based qubits. Their tools are designed to support both industrial-scale quantum chip production and academic R&D	Quantum chip testing equipment (OrangeQS MAX high-throughput and FLEX R&D-focused). Software library/suite for benchmarking and calibrating qubits	https://orangeqs.com/
Fortaegis	Fortaegis is a pioneering semiconductor company focused on building ultra-secure, high-performance computing infrastructure for a post-quantum world. With its flagship 5 nm Secure Processing Unit (SPU), Fortaegis aims to redefine the boundaries of secure data processing, communication, and storage	Scalable infrastructure for post-quantum resilience. Customizable secure networks for mission-critical applications. Hardware-based solutions for secure distributed systems	https://fortaegis.com/
Fermioniq	Fermioniq is a quantum software company based in Amsterdam, focused on next-generation quantum emulation. Their flagship product, Ava, is a scalable, cloud-based emulator that uses tensor networks and HPC to simulate quantum algorithms and hardware behavior. Fermioniq bridges the gap between quantum software development and hardware readiness, enabling researchers and developers to test, optimize, and benchmark quantum solutions before deploying on actual quantum devices	Quantum emulation platform (Ava, up to 34 qubits). Customizable noise models and digital twins for hardware developers	www.fermioniq.com/
Quantum Inspire	Quantum Inspire is Europe's first public quantum computing platform. It offers a cloud access to real quantum hardware, simulators, and a user-friendly programming environment with SDKs and integration with tools (Qiskit and PennyLane)	Full-stack quantum computer: provision of quantum emulators and cloud quantum processors	www.quantum-inspire.com/backends/

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