

INNOVATIONS

■ in plastics



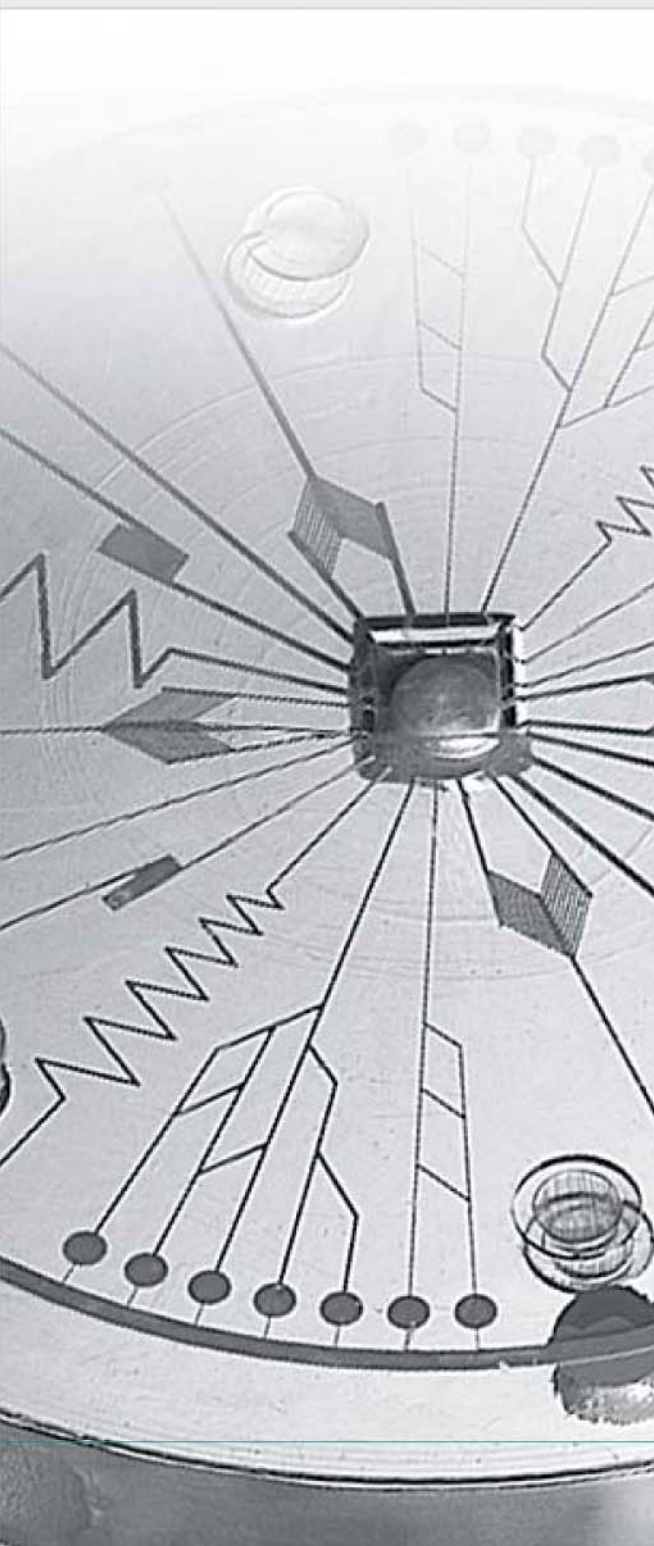


RKT QUALITY

for medical engineering

- RKT meets your global requirements as regards cutting-edge products in the area of medical devices – from manual and semi-automatic small-batch production to large-scale production in fully automatic production cells, graded into different categories of cleanliness. Clean-room production up to class 10,000 ensures that sophisticated parts remain free of particles and, thanks to specific cleaning and disinfection procedures, also biologically sterile.
- And it is with pride that we also emphasize our experience in future-oriented issues such as micro-fluidics or product substitutions, which can be realized cost-effectively thanks to our "lab-on-a-chip".
- Find the appropriate innovative system solution at RKT!
- With their high expectations in mind, we offer our medical clients development and production of disposables and multi-usable devices for different analysis systems, dialysis procedures, hose adapters, inhalator casings, right through to the development and production of complete assemblies and medication systems.





PRODUCT DEVELOPMENTS

from a single source.

- RKT develops and produces disposables and multi-usable devices for sample preparation or cuvettes for sample analysis.

Clean-room production in combination with our injection moulding machines ensures constantly high product quality in terms of visual appearance and process reliability.

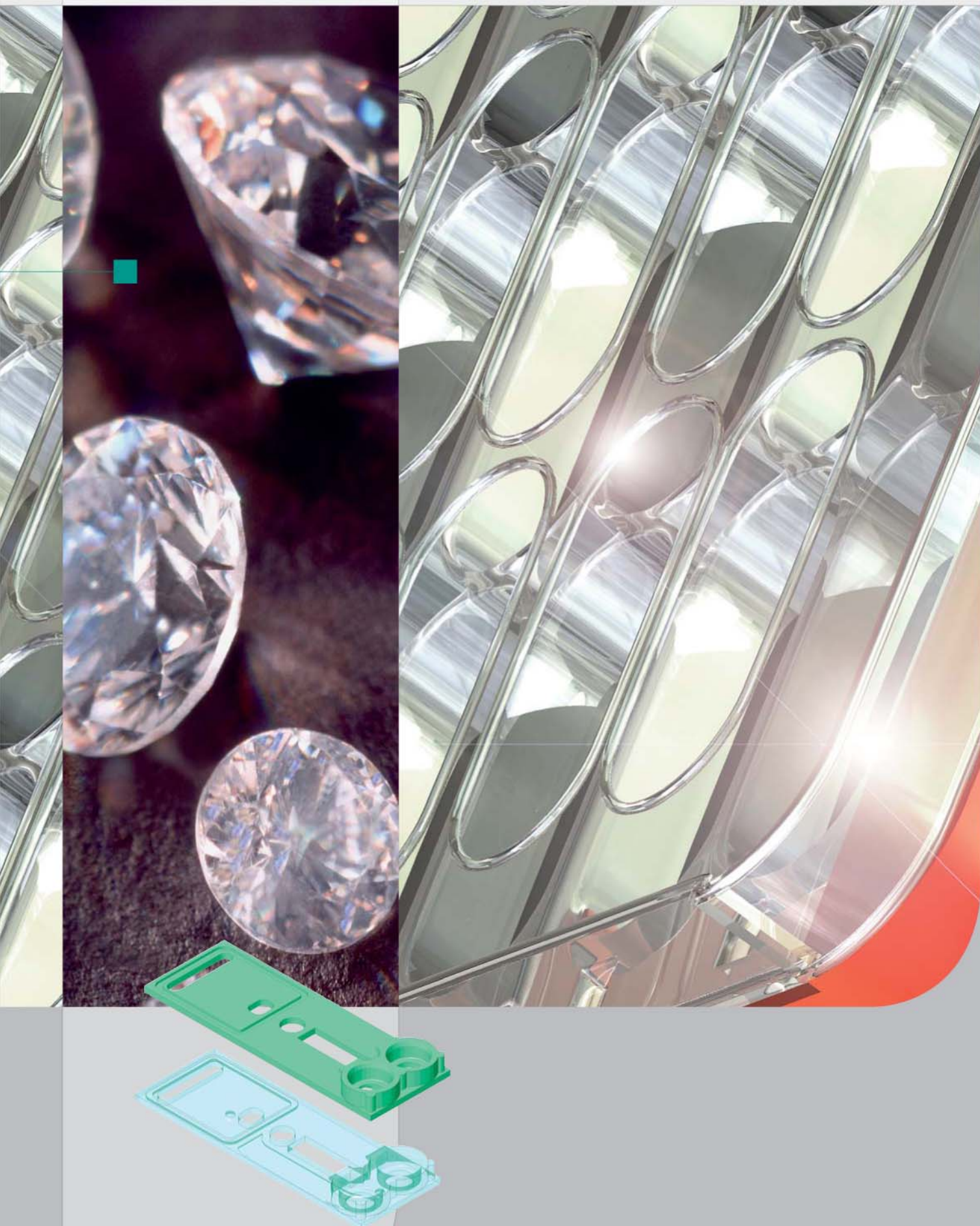
Fully-automatic robot systems divide production into different batches, separate the relevant QS samples and automatically remove no-go parts out of the process.

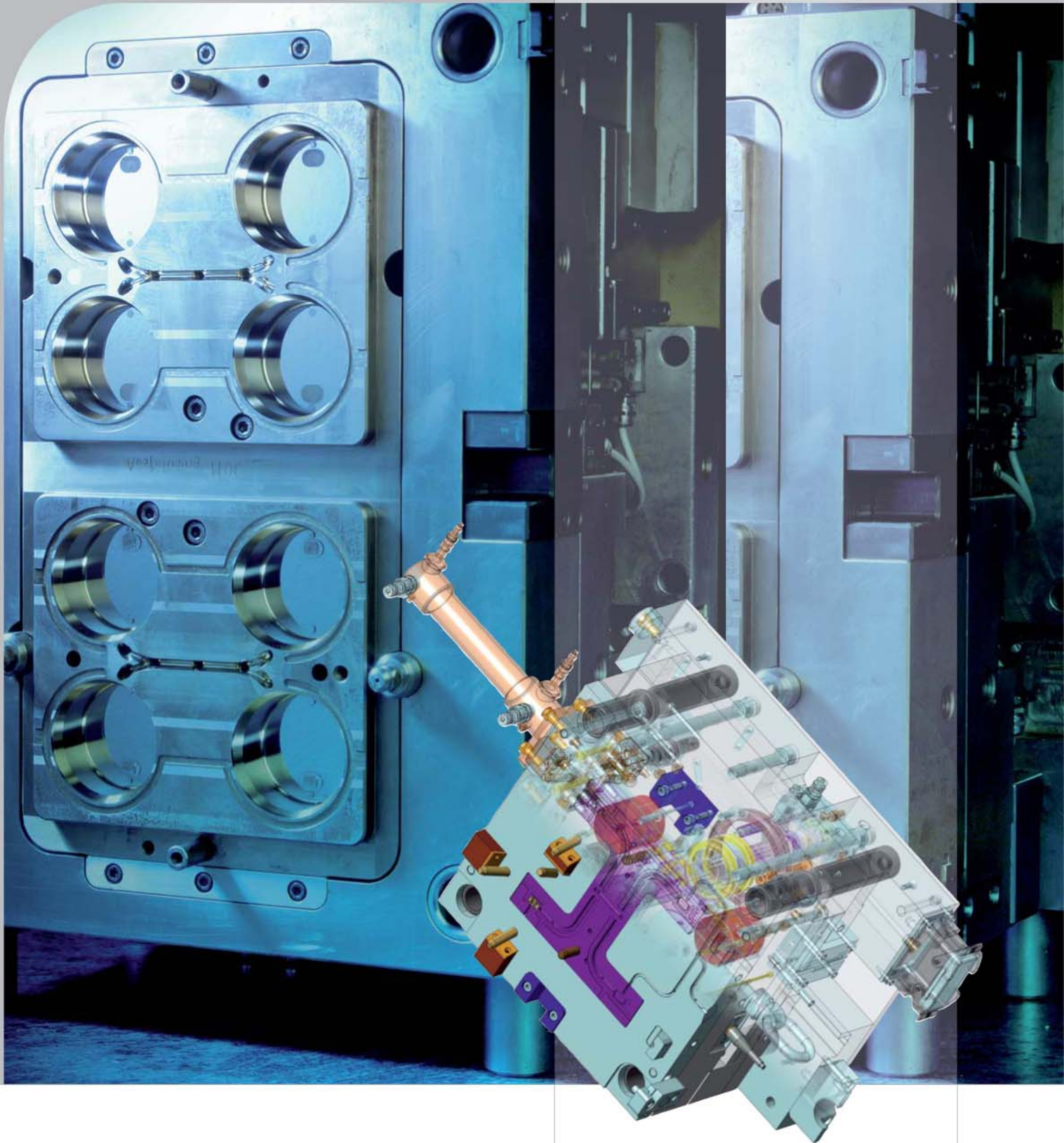
- Our company stands for competence throughout the entire value-added chain. From feasibility analysis, FMEA, tool-making including initial-sample test report to process installation and validation, and, of course, production and finishing - you receive everything from one single source.

It goes without saying that RKT is certified in accordance with DIN EN ISO 13485:2003.

- RKT – where people work for people!









TOOL-MAKING

at its best.

■ Here at RKT, sophisticated in-house tool-making meets highest product-specific requirements such as visual quality, miniaturization or 3- or more-component tools. The know-how behind thousands of tools produced, also in modular design, is a decisive benefit when it comes to meeting the high expectations of our clients. We make tools that meet the most exacting requirements - be they complicated bar moulds, complex core cooling systems, turn-off units, or hydraulic core pullers.

■ The work performed by our mould-making and design departments is at the very highest level, generating solutions to meet the most exacting requirements in terms of feasibility, cooling, mould filling, and demoulding. The cooperation between tool-making, assembly and production departments means that the various processes can be coordinated to perfection.

■ In operation, spare-parts handling according to validation standards, if this should ever prove necessary, plays an important role. Tools are optimized under serial conditions in our in-house technical laboratories.

■ RKT - Quality and precision from the very start!





MEDICAL ENGINEERING

in clean rooms.

- The production cells we develop ourselves and which comprise continuous monitoring and documentation ensure consistent quality and process reliability. Sampling throughout the whole production process is also an integral part thereof, in accordance with our TQS Total Quality System. We apply state-of-the-art robot systems for part sampling, as well as automatic box-changing; if several components are involved, nest separation is mandatory.
- We use state-of-the-art camera systems for optical monitoring of parts. The setting of stable parameters for injection moulding is documented in an initial-sample test report, monitored fully automatically and saved permanently by a modern operation-data acquisition system. Traceability is ensured not only by this continuous documentation, but also by raw material tests in our own laboratories along the entire development and production chain.
- We ensure product and functional reliability!
- The high vertical range of production typical for RKT can also be seen in product finishing techniques such as painting, metallizing, or imprinting with multi-colour tampon-printing robots for up to 6 colours. In addition to component assembly, our process competences also comprise gluing, hot forming and hot mould-making, ultrasonic and vibration welding, but also joining techniques such as laser welding, hot caulking or thermocompression bonding.







A LOOK AHEAD

in medical engineering.

■ Recognizing and fulfilling the requirements of the future involves special challenges. Production in clean rooms is mandatory in order to meet growing product requirements. We cover the entire production chain from development, tool-making, injection moulding, finishing, component assembly, if applicable, up to packaging and logistics. 4-way validation, i.e. the package comprising machine, tool, equipment and process, guarantees quality and reproducibility.

■ Given our experience in the field of micro-system engineering, we are pleased to take on the challenges posed by micro-fluidics as well as the processing of COC or COP plastics.

Cyclo olefin polymers are characterized by features such as highest purity, a high degree of transparency, a good moisture barrier and low interaction with pharmaceuticals (substitution with glass products).

■ We look forward to meeting you and to sharing your challenges!

■ Longstanding experience and intensive dialogues with medical experts and universities have enabled us to make progress in the development of substitution products such as the "lab-on-a-chip" until they are ready for serial production.

We invite you to profit from our experience in the production of medical filter casings, disposables, insulin pumps, bio-technical articles or health-care products.





■ Automotive



■ Electronics



■ Communication

Since 1974, our national and international clients have also profited from our accumulating knowledge and experience in the core areas Electronics, Communication and Automotive.

But we are still also your competent partner when it comes to special challenges our industry has to face in the areas of environmental engineering or cosmetics.

As a full-service supplier, we would like to familiarize you with our efficient value-added chain reaching from the product idea to delivery "from the same source".

You just need one single partner for your entire project! See for yourself.

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