

# DIAMOND Kimberlit B.V.

## The company

DIAMOND is a worldwide leader in supplying high precision fiber optic solutions and has been serving successfully several markets for over 30 years. Also, Diamond is known as a dynamic and innovative company, able to develop reliable, customized components and equipment, in response to the increasingly demanding customer requirements.

## Technologies

Diamond provides a wide range of products based on sophisticated technology and its strong know-how acquired over many years. Manufacturing special fiber-optic interconnecting parts is our core business, a specialization that allows us to meet the most different kinds of customer's needs.

## Manufacturing depth

Diamond has a well-established competence in processing high-quality ceramic, metal and plastic components, right from the raw material to the finished product. This system allows the various manufacturing processes to be controlled and enables us to guarantee that each single component meets all the quality, reliability and performance standards which stand for Diamond products throughout the world.

## Mechanical competences

- Integrated Ceramic production (pressing, sintering, machining); Precision metal machining in non-standard metals (Ti,WC, Kovar, stainless ...); High precision plastic injection; Ultra-high precision lapping; Ultra-high precision drilling; Fiber-ferrule polishing.

## Optical competences

- Fiber active core alignment; Active Polarization Orientation; Contact optical interfaces; Non-Contact optical interfaces; High power optical applications; 3D linear (X,Y,Z) active fiber positioning; Multi-Channel concepts.

## Assembly competences

- Singlemode Fiber; Multimode Fiber; Standard PM Fiber; Enhanced PM Fiber; Reduced Clad Fiber; Double Clad Fiber; Large core Fiber; Small core Fiber; Multicore Fiber; Photonic Crystal Fiber.

## References

Nikhef – CERN – TNO – ESA – NASA – ECN – Mapper – Philips – ASML – Thales – Dutch Defense – NATO – Fugro – Fokker Elmo – TU Eindhoven – TU Delft – UTwente – Leiden University – VU Amsterdam and many more.

## Ivar Koren

Technical Product Manager

Transistorstraat 101

1322 CL ALmere

T: +31 (0)36 35 87 35

E: i.koren@diamond-kimberlit.nl

[www.diamond-fo.com](http://www.diamond-fo.com)

