



Colibri Spindles

Line of Business

Semiconductors; Dicing; Packaging; Singulation; Optical components; Micro-machining; Engineering services; Metal & industry equipment; Metal cutting tools; Medical devices; Spindles, HSM Spindles, Air Bearing Spindles

Established

2003

Leading Executives

Mr. Oren Harpaz
Chairman

Mr. Dror Pockard
CEO

Colibri is a world leader in developing special spindle technology and solutions.

For over a decade, Colibri has specialized in designing and manufacturing compact spindles, capable of operating at high speeds, with minimal vibrations and run-out.

Colibri's flagship product is the Typhoon (SPINJET), an Innovative HSM coolant driven spindle for substantially improved cutting tool performance.

The cutting-edge high-speed spindle Typhoon enables high-speed machining on standard CNC machines. The Typhoon's unique spindle, driven by the existing machine's coolant flow, does not use the machine's spindle and requires no other external power.

The standard machine's coolant generates a high rotation speed by rotating the Typhoon's inner turbine at up to 40,000 rpm, enabling super-fast machining and dramatically reducing machining time – up to 70%.

Colibri's customers include semi-conductor manufacturers as well as manufacturers in the field of metal cutting industries. We serve both end-users and OEM's - machine builders.

The company's vast knowledge base and experience in the area of special spindle design enables it to offer its clients advanced technical customer support, including assistance in process optimization, and consultation in the field of driving systems.

Colibri designs customized bearing systems, providing bearing calculations using special software and analyzing tools developed in-house. The company also offers solutions for turn-key projects including sub-assemblies and specialized projects. Since Colibri products perform in a demanding industry, where superb accuracy level is required, the company uses the most advanced manufacturing equipment, capable of manufacturing parts with tight tolerances and accuracy down to a micron. Colibri equipment includes advanced



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The Typhoon is a simple-to-use system, requiring no changes to the machine and no special adaptations. When this simple "Plug & Play" solution is in use, the machine's own spindle remains idle, saving energy and CNC machine spindle wear.

Other leading Colibri products include compact spindles for dicing applications and other special spindles.

The company's manufacturing facility is located at the Lavon Industrial Park in northern Israel, where the entire process - from design to production - takes place, using the most modern and sophisticated equipment.

machine tools, measuring systems and balancing equipment. Colibri produces all parts in-house, from rough materials through machining operations, to the finest final finishes.

Colibri is ISO certified and works under strict regulations, in order to meet the highest industry quality level and maintain customer requirements at all times.