

## **Swift Klamp – Five-axis workholding**

*‘Swift Klamp’ is the latest addition to the Kitagawa Europe family of workholding solutions. Using time-proven HSK tool interface technology, Swift Klamp provides a secure, low-interference, quick-change five-axis workholding system.*

Swift Klamp’ consists of three parts: the clamping head, the workholder and the workpiece. The clamping head is supplied either as a manually or automatically actuated HSK clamp. The manual clamping head is supplied with a versatile mounting flange to suit multiple mounting options for five-axis machines and rotary tables. Available in HSK-A40, HSK-A63 and HSK-A100 sizes, with an offline set-up procedure, the workholder system can be exchanged within an impressive ten seconds, minimising machine downtime.

To allow operators to fully automate their manufacturing process, a low-pressure hydraulically-operated automatic clamping head is also available in HSK-A40, HSK-A63 and HSK-A100 sizes, with seating detection and air-blow.

“In keeping with the move to more automation in workplaces, the workholder profile that is used with the clamping head has a common interface to enable them to be handled by any general-purpose robot arm,” said Paul Fowler, Managing Director of Dimac Tooling, Australian distributors for Kitagawa Europe.

The workholder is made up of the HSK interface at the bottom. Multiple workholding options are available – standardised dovetail, flange clamp and side clamp – all of which provide a rigid and secure platform for five-axis machining processes. Dovetail systems allow superior tool access due to their small clamping surface. The time-proven HSK interface between the workholder and the clamping head provides optimal bending rigidity.

“Kitagawa is a brand we have distributed for many years and a well respected manufacturer of high quality vises,” Fowler added. “As such, we can also supply the most suitable vise to grip the raw work-pieces to complete the dovetail interface.”

The final part is the workpiece, which in the case of the dovetail workholder will require an initial dovetail slot to be machined into the raw billet to interface with the workholder. However the Swift Klamp system can accommodate various work piece shapes of up to 200mm square or diameter.

The majority of workpieces being used for fiveaxis machining require a preparation phase. However, the advantage of this is that the preparation phase can either be integrated into the total machining process or it can take place outside the five-axis machine. This option enables companies to keep their high-cost machine operating, ensuring the maximum return on their investment. Additionally, to assist with prototyping or enable companies to start testing their own new Swift Klamp system straight out of the box, pre-machined dovetailed blanks can be supplied.

Swift Klamp offers strong dual-face clamping, superior bending rigidity, high positioning accuracy and multiple workholder options.

“The Swift Klamp quick change five-axis work holding system is highly effective, extremely versatile and designed to minimise machine downtime,” said Fowler. “Plus, like all Kitagawa products it is manufactured to the same high quality standards.”

In addition to Swift Klamp, Dimac is also the sole distributor of other leading CNC accessory and workholding brands including Kitagawa chucks, the Freddy range of coolant recycling machines, Reven Mist air extractors and Hydrafeed Barfeeders.

**Dimac Tooling will be exhibiting at Austech 2019 at Stand 881.**

**[www.dimac.com.au](http://www.dimac.com.au)**