



carved jaws will repeat  $\pm 7.5\mu\text{m}$  when replaced in the original master jaw. Operators can dowel pin the aluminium jaws ready to be reused or purchase SMARTstopped (pre-pinned) 4" and 6" jaws in all five aluminium profiles, 1018 or ductile cast iron jaws.

PERMAjaw is a SMARTstopped, ductile cast iron jaw set available in 4" and 6". It is 19mm wide by 43mm high and can be flipped over to expose a fresh face. Able to repeat in the same master jaw to  $\pm 7.5\mu\text{m}$ , PERMAjaw is an ideal solution for recurring jobs, with the ability to have a profile on both sides of the (flipped) jaw.

Leader managing director Mark Jones explains: "CARVEsmart offers the most complete dovetailed quick change vice jaw system and provides a number of benefits. While conventional vices attach the jaws to the face of master jaws via cap screws, the CARVEsmart system uses master jaws with a female dovetail profile designed to accept vice jaws with a male dovetail profile.

"So, the jaws can be front loaded or slid into the side of the

master jaws and are secured via clamping elements accessible at the top of the master jaws. With no face mounting cap screws to avoid, the soft jaw extruded stock is fully machinable, making inexpensive cut to any length vice jaws."

Jaws are removed by loosening – but not removing – three channelled clamping elements in the top of each master jaw. As the clamping elements are located at the top of the master jaws it is not necessary to open the vice as might be required to access cap screws in a conventional vice configuration. A CARVEsmart jaw can be changed in less than one minute.

Mr Jones concludes: "Re-cutting the female form with each part run matches the jaw and vice perfectly to the spindle CARVEsmart dramatically reduces set-up time, improves set-up reliability and quality. This makes the system ideal for workshops that change vice jaws often; running recurring, tight tolerance work."

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