



Vice and jaws benefit from working together

 US-based CarveSmart and Orange Vise, have recently announced a collaborative technology agreement set to benefit all new and existing customers. Both companies are represented in the UK by Leader Chuck Systems.

Leader's managing director Mark Jones says: "Under the agreement, CarveSmart, maker of the original quick-change vice jaw system featuring dovetailed jaw technology, and Orange Vise, will

form a relationship that provide the latter with the opportunity to offer CarveSmart's patented features in the Orange Vise Integrated Jaw System (IJS). Both companies have recently made major investments in equipment as part of the venture."

CarveSmart dovetail and clamp features are machined directly into the Orange IJS vice, eliminating the need for master jaws. This saves 38 mm of opening. Moreover, the fully machinable jaws result in a larger


machinable workholding zone that permits holding larger parts deeper into the jaws of the vice for better performance. The 6" Orange IJS vice accepts all CarveSmart dovetailed jaws.

The CarveSmart system is designed for production and toolroom applications, replacing the often cumbersome, conventional method of attaching vice jaws to a vice. Dovetailed jaw changes are said to be fast and easy to use with the 'from the top' clamping

system. The clamp assembly pulls dovetailed jaws tightly into two axes while a SmartStop pin locates the jaw in the third axis, promising $\pm 7.5 \mu\text{m}$ relocation precision. In addition, the SmartStop slot and pin is internal to the dovetail, allowing vices to be mounted side-by-side.

Extruded aluminium dovetailed jaw stock is available in five profiles in lengths up to 2400 mm. It can be cut to any length the user requires. For further information www.leaderchuck.com

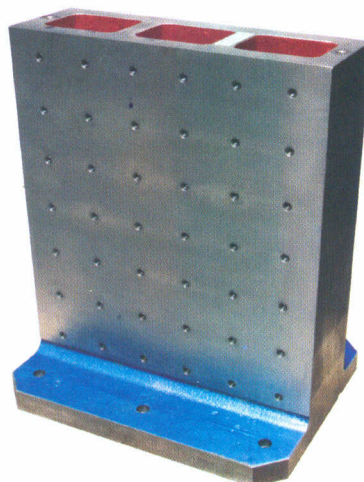
In-house facilities aid speed and accuracy

 High quality engineering starts from the ground up, no matter what the industrial sector. In many instances, workholding or fixturing components are the very foundation of the manufacturing process, improving the accuracy of machining and speed with which each component can be machined.

Not only does WDS offer thousands of fasteners, handles and accessories as part of its standard parts catalogue, it also boasts in-house manufacturing capabilities to build bespoke jigs, angle plates, cube fixtures and more. WDS engineers are able to

work with OEMs and designers to develop customised solutions which can provide positional accuracy of up to 5 μm per metre.

"When you're manufacturing components for the latest jet or a Formula one car, you need to make sure that every single part is identical to the next," says Phil Holyome, business development and special projects engineer at WDS. "This can only be done if the workholding solution has been designed and manufactured correctly. We specialise in creating solutions which meet our customers' needs, whether that's total positional accuracy, fast



turnaround, multi-axis machining, or all three."

As part of WDS's 'Bespoke Specials' programme, the company works with end users to design and manufacture components to specific requirements; whether this means customising standard products or designing solutions from the ground up. Manufacturing is carried out at the WDS workshop in Leeds, which conforms to ISO90001 standards. Thanks to calibrated testing equipment, components can even be supplied with certificates of conformity. For further information www.wdsLtd.co.uk