

REDUCE  
SET UP  
TIME &  
IMPROVE  
QUALITY



 **CARVESMART**<sup>TM</sup>  
Quick Change Vise Jaw System by Bellatex Industries

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SIMPLIFY SET-UPS, REDUCE DOWNTIME AND IMPROVE PART QUALITY...



With the **CARVESMART**<sup>TM</sup> Dovetailed Quick Change Vise Jaw System, your machines will be busy making parts not jaws.

Your Local Distributor:

FRONT LOADING DOVETAILED JAWS  
**FOR PRODUCTION & TOOLROOM VISES**  
ACCURATELY CHANGED IN SECONDS



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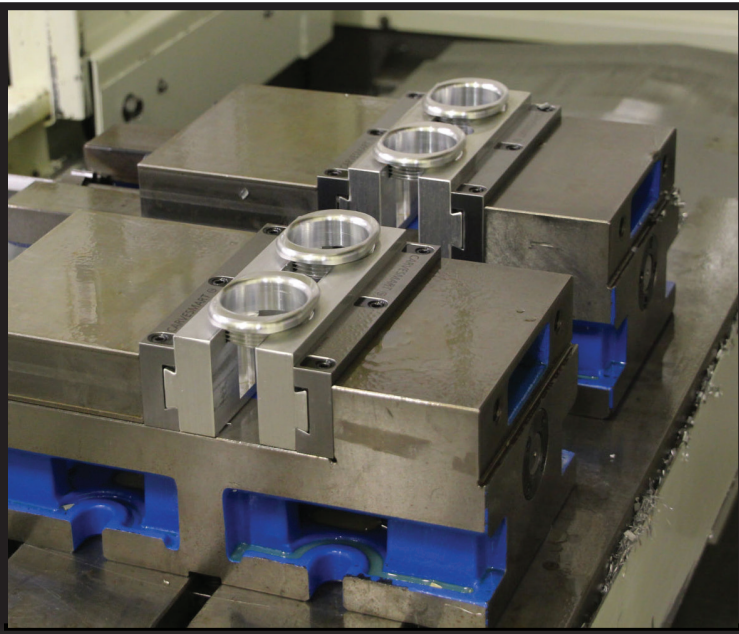
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# CARVESMART™

Quick Change Vise Jaw System by Bellatex Industries



The **CARVESMART™** Quick Change Vise Jaw System is a complete package of front loading dovetailed jaws for production and toolroom vises that are accurately changed in seconds. **CARVESMART™** extruded aluminum soft jaws replace homemade jaws with a less expensive option that can be saw cut to any length.

**CARVESMART™** replaces cap screwed jaws with a dovetailed jaw program. Three powerful channeled clamping elements are accessed from the top of the master jaw. Opening a vise for hex key access and “half turns” is now time saved.

Eliminating face accessed cap screws gives the **CARVESMART™** jaw design a larger machineable workholding zone that permits holding on to many parts deeper into the jaws of a vise for better performance.

The **CARVESMART™** master jaw’s dovetail provides exceptional repeatability. The COMBOjaw flips from a knife edge jaw to a hard jaw in seconds.

## IT'S QUICK

RH/LH clamp screws pull channeled clamps on to the **CARVESMART™** jaw’s male dovetail. They are accessed from the top of the **CARVESMART™** Master jaw. Vises no longer need to be opened just to reach the cap screws. Our design allows front or side loading of the jaw. This is important when vises are mounted side by side or when using a continuous stationary jaw that will tie several vises together.

## IT'S ACCURATE

A cap screwed jaw locates on the bed of a vise. It must be totally disassembled and cleaned in order to change jaws. The female dovetail on the **CARVESMART™** Master jaw becomes a jaw’s new clamping location. This provides excellent repeatability and easy cleaning.

## IT'S STURDY

A vise operates best when the part is clamped as deep as possible, preferably below the cap screws. The fully machineable **CARVESMART™** jaw allows bigger parts to be held deeper into a vise. In many applications, the **CARVESMART™** design will allow greater clamping forces with less jaw lift.

**“The guys in the shop were skeptical at first about using the CARVESMART™ system. After trying it a few times they wanted more.”**

**We now change a 16 jaw quad in less than 10 minutes and use CARVESMART™ on most of our vises.”**

Mike Yeager, Owner  
Yeager Machine, Inc



## Being Cap Screwed!

Today’s machine shops are faced with smaller quantities, tighter tolerances and expensive materials. Machines carry high burden rates and inconsistent set up times often due to workholding in vises. Vises use a variety of jaws that are traditionally held in place with face mounted cap screws. Cap screws offer no features that make set ups fast or repeatable. This represents the most significant set up reducing opportunity left in many machine shops.

### Vise Jaws held with Cap Screws Comparison:

<b>CARVESMART™</b> jaws are changed from the top using three channeled clamping elements.	Vises must be opened to access face mounted cap screwed jaws.
<b>CARVESMART™</b> soft jaws are fully machineable. This allows a narrower jaw to hold the same part deeper in a vise for better performance and less jaw lift.	Cap screws are located in the middle of a vise’s sweet spot. They reduce the best machineable clamping zone in many carved jaw applications.
<b>CARVESMART™</b> jaws locate on a dovetail.	Cap Screw held jaws locate on the bed of the vise.
<b>CARVESMART™</b> clamps pull the jaw downward onto the dovetail without the use of a hammer.	Cap Screw held jaws can lift the jaw when tightened.
The <b>CARVESMART™</b> vise jaw system is very fast and very repeatable. See for yourself, visit <a href="http://www.carvesmart.com/advantage">www.carvesmart.com/advantage</a> .	Cap screw held jaws offer no features that make set ups fast or repeatable.
<b>CARVESMART™</b> extruded aluminum soft jaws require only a saw cut for a jaw of any length.	Cap screw held soft jaws are often made in house. Make parts not jaws.
Recutting new or used jaws makes the jaw’s features exactly like original set up. Saving the precut program and recutting the soft jaw is much faster and more accurate than used jaws, indicators and offsets.	Reusing carved jaws often takes your best setup person to locate and offset the control for each jaw.

**“From Large to Small we Hold Them All”**



**The CARVESMART™ quick change vise jaw system is a complete package that reduces downtime, increases workholding performance and improves quality.**

**Give this American made high quality product a try to increase your spindle up time and profits.**



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