

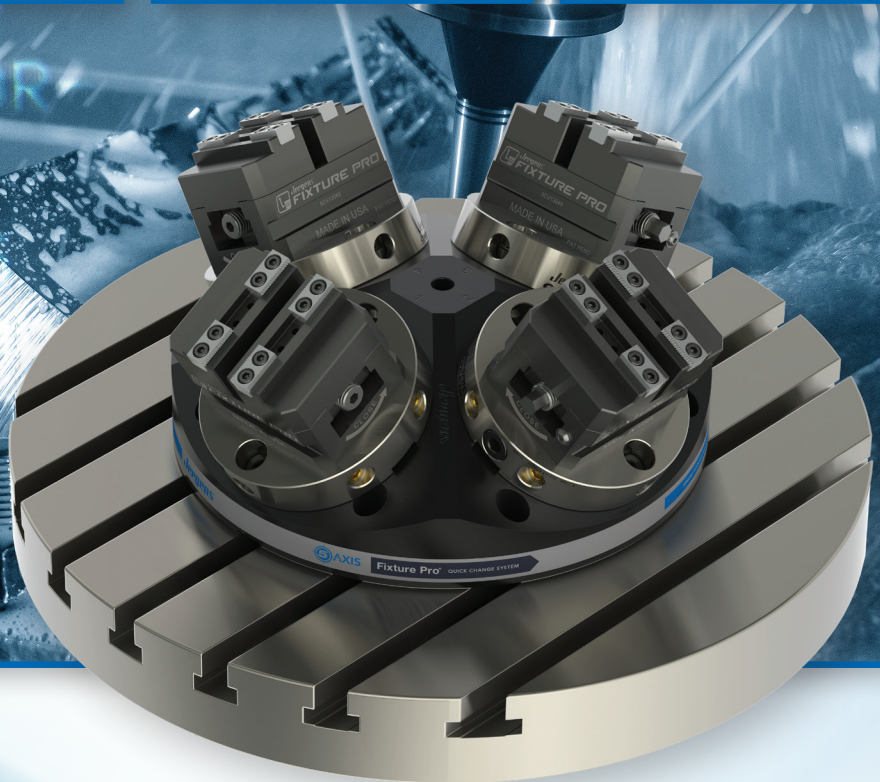
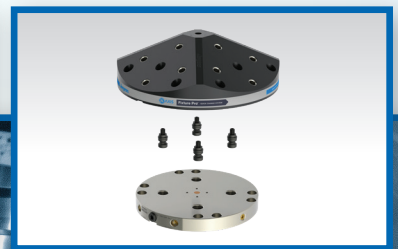
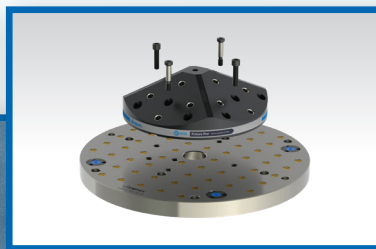
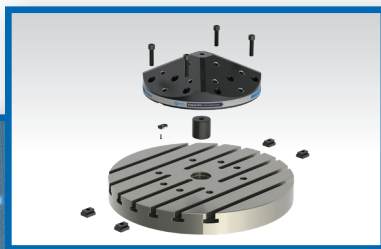


*Jergens*

# MULTI-AXIS<sup>®</sup>

## WORKHOLDING SOLUTIONS

FIXTURE-PRO<sup>®</sup> PYRAMID RISERS FOR INCREASED MACHINING ACCESS



WORKHOLDING SOLUTIONS | SPECIALTY FASTENERS | LIFTING SOLUTIONS

©2020 JERGENS, INC. | IMG0820

*Jergens*<sup>®</sup>

MANUFACTURING EFFICIENCY

15700 S. WATERLOO ROAD, CLEVELAND, OH 44110-3898

☎ 877.426.2504 | 🌐 JERGENSINC.COM/WORKHOLDING | ✉ WORKHOLDING@JERGENSINC.COM





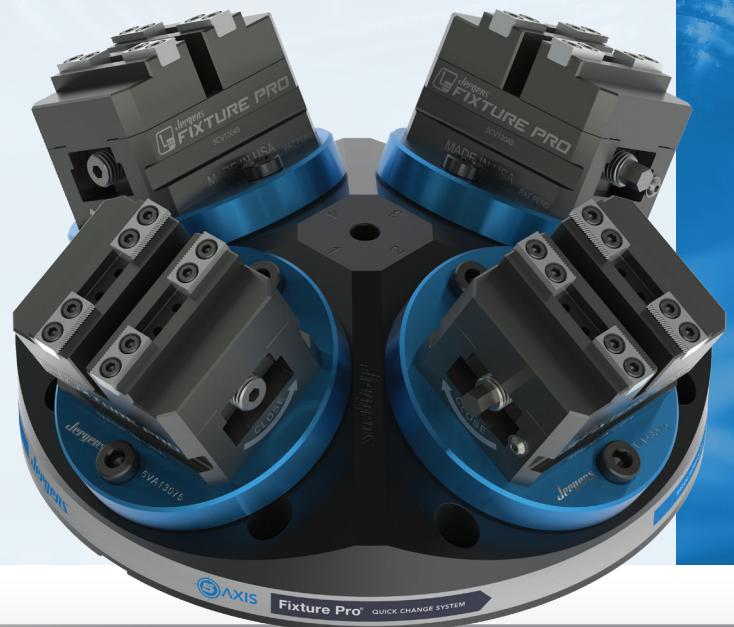
## FIVE AXIS MACHINING EXCELLENCE

### Increase Productivity, Save Time and Money With Fixture-Pro® Quick Change Solutions

To maximize productivity on your 5 axis and other multi axis CNC machining applications requires overcoming common challenges. Among the top are the ability to get your spindle and cutting tool close to the workpiece without running into obstructions. Vises, jaws and other components, even the machine table itself, can restrict your access, slow you down and prevent you from machining multi-sided parts efficiently. Jergens Fixture-Pro® offers a modular and configurable approach to optimal holding and positioning of components of varying sizes and shapes. The unique stack-up approach makes complex workholding much easier, gripping tight for precision while providing quick change for reduced setup time. More machining per setup and faster changeover in between equals maximum machine uptime.

### Jergens Pyramid Risers Increase Machining Access on Multiple Parts In A Single Setup

A different angle for your five-axis machining! A 30-degree mounting surface ensures maximum access to all part surfaces to be machined and clearance for spindle and cutting tool paths. Bottom line is more machining per setup. These engineered solutions are available in both three-position and four-position configurations. Jergens Pyramid Risers mate with Quick-Loc™ and to many top tooling choices including self-centering and dovetail vises as well as ER collet fixtures. The Fixture-Pro® quick-change system is compatible with virtually all 4 axis and 5 axis CNC machining centers and ensures the fastest change over and setup times possible.





**Jergens**

WORKHOLDING SOLUTIONS GROUP

## Fixture-Pro® Pyramid Risers

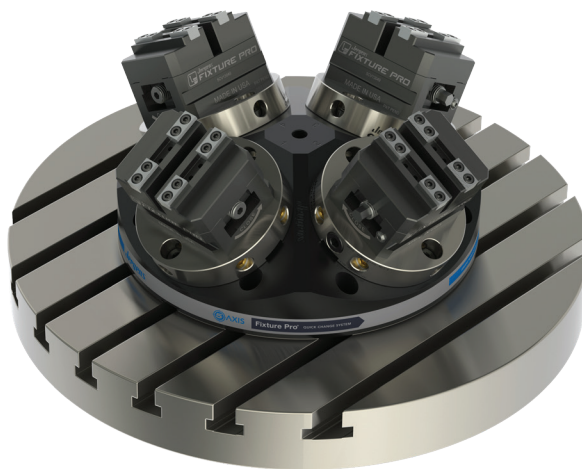
Jergens Pyramid Risers give users the ability to increase productivity of 5 axis machining centers. The angled faces permit multi part loads while still providing the increased part access needed in 5 axis machining centers. The flexible design ties together many of Jergens popular quick change and top tooling options.

### Key Features & Benefits:

- Light weight aluminum design
- Versatile mounting options
- Topside center hole for optional tooling ball (29071)
- Direct to table mounting is compatible with popular 5 axis t-slotted machine tables
- Angled faces are compatible with select pallets and top tooling from the following Jergens product lines:

Jergens  
**QUICK-LOC™**  
ELECTRICALLY ASSISTED

Jergens  
**FIXTURE PRO®**  
QUICK-CHANGE FIXTURING



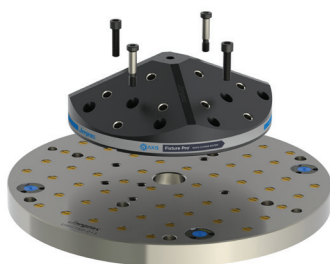
## Versatile Mounting Options

### Direct to Table



Mount direct to t-slotted machine table.  
Locate with center pin and timing key.  
Secure to table with t-nuts & SHCS

### QLS Mounting System



Mount to Fixture-Pro® base elements such as subplates via Jergens QLS Mounting System. A combination of (2) 12mm QLS shoulder screws and (2) M12 SHCS will accurately locate and securely clamp the pyramid to a base element.

### Quick-Loc™ Pallet System

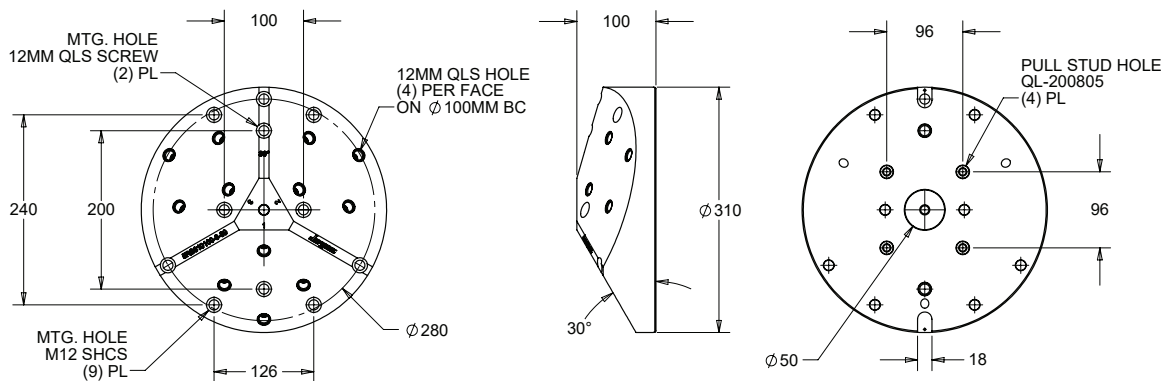
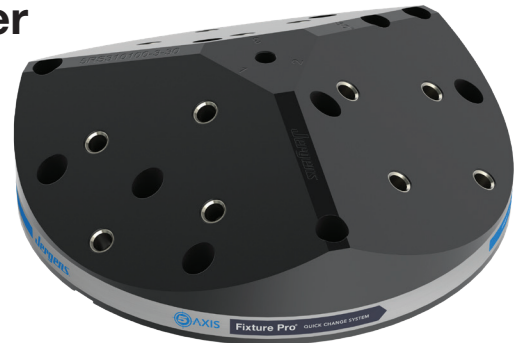


Mount to Jergens Quick-Loc™ Pallet System with (4) QL-200805 pull studs spaced at 96mm. Locate and clamp in a single step.

## 3-Sided Fixture-Pro® Pyramid Riser

- 6061-T651 Aluminum
- Hardcoat Anodized
- QLS Bushings Installed
- Custom sizes & configurations available upon request

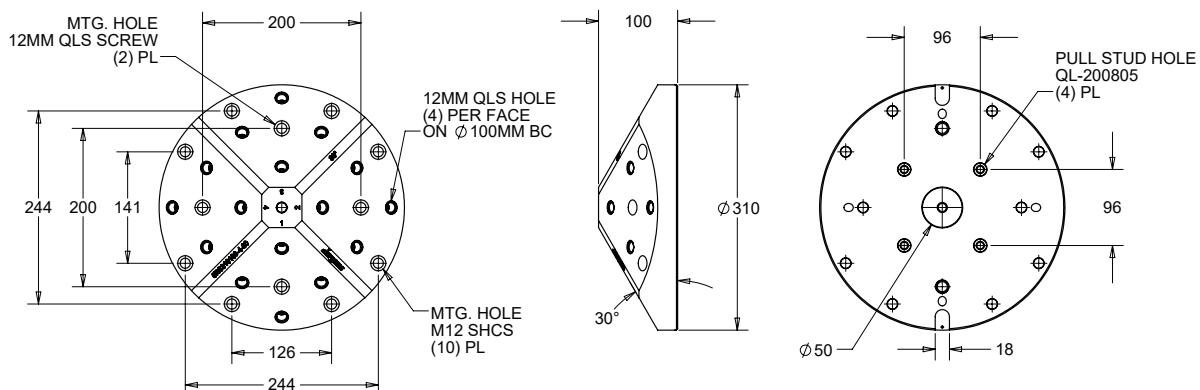
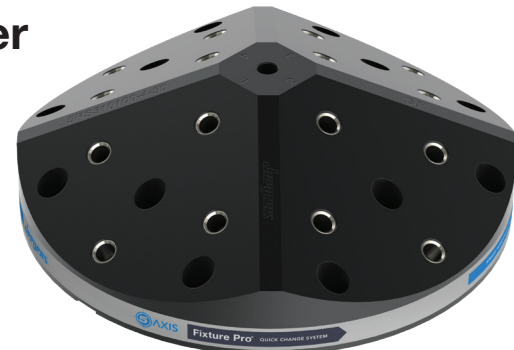
Part Number	Wt. lbs(kg)
5RS310100-3-30	28 (12.7)



## 4-Sided Fixture-Pro® Pyramid Riser

- 6061-T651 Aluminum
- Hardcoat Anodized
- QLS Bushings Installed
- Custom sizes & configurations available upon request

Part Number	Wt. lbs(kg)
5RS310100-4-30	26 (11.8)







## 3-Sided Pyramid Configuration Examples

### 52mm Quick-Loc™ Pallets



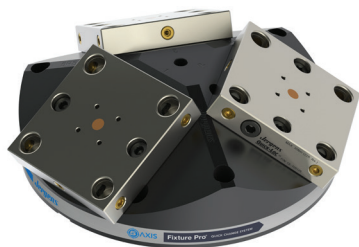
Part Number	Quantity
5RS310100-3-30	1 pc
QL-100306	3 pcs
5SH1220	6 pcs

### 75mm Vises Quick-Loc™ Mount



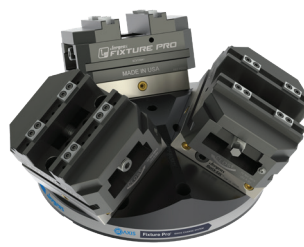
Part Number	Quantity
5RS310100-3-30	1 pc
QL-100306	3 pcs
5SH1220	6 pcs
5CV13050-IN	3 pcs

### 96mm Quick-Loc™ Pallets



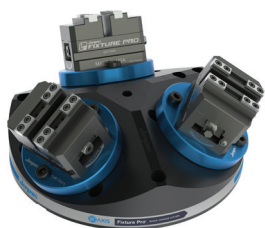
Part Number	Quantity
5RS310100-3-30	1 pc
QL-100126	3 pcs
5SH1225	6 pcs

### 130mm Vises Quick-Loc™ Mount



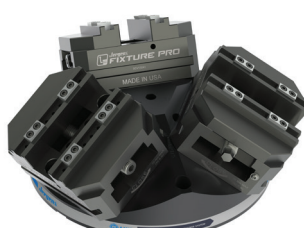
Part Number	Quantity
5RS310100-3-30	1 pc
QL-100126	3 pcs
5SH1225	6 pcs
5CV13042-IN	3 pcs

### 75mm Vises QLS Mount



Part Number	Quantity
5RS310100-3-30	1 pc
5VA13075	3 pcs
5SH1230	6 pcs
5CV13049-IN	3 pcs

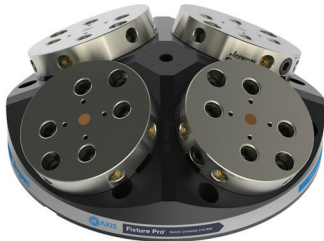
### 130mm Vises QLS Mount



Part Number	Quantity
5RS310100-3-30	1 pc
5CV13041-IN	3 pcs
5SH1250	6 pcs

## 4-Sided Pyramid Configuration Examples

### 52mm Quick-Loc™ Pallets



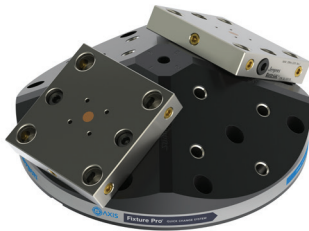
Part Number	Quantity
5RS310100-4-30	1 pc
QL-100306	4 pcs
5SH1220	8 pcs

### 75mm Vises Quick-Loc™ Mount



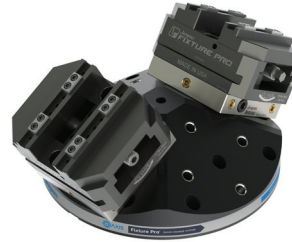
Part Number	Quantity
5RS310100-4-30	1 pc
QL-100306	4 pcs
5SH1220	8 pcs
5CV13050-IN	4 pcs

### 96mm Quick-Loc™ Pallets



Part Number	Quantity
5RS310100-4-30	1 pc
QL-100126	2 pcs
5SH1225	4 pcs

### 130mm Vises Quick-Loc™ Mount



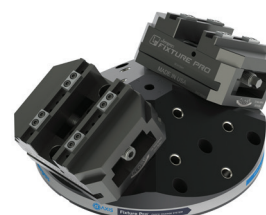
Part Number	Quantity
5RS310100-4-30	1 pc
QL-100126	2 pcs
5SH1225	4 pcs
5CV13042-IN	2 pcs

### 75mm Vises QLS Mount



Part Number	Quantity
5RS310100-4-30	1 pc
5VA13075	4 pcs
5SH1230	8 pcs
5CV13049-IN	4 pcs

### 130mm Vises QLS Mount



Part Number	Quantity
5RS310100-4-30	1 pc
5CV13041-IN	2 pcs
5SH1250	4 pcs





**Jergens**

WORKHOLDING SOLUTIONS GROUP

## OTHER KEY FIVE AXIS WORKHOLDING COMPONENTS

### FIVE STEPS TO FIVE AXIS

#### Building Solutions From The Best Modular Quick-Change Workholding System

Good news – you're not far from achieving the potential of all of your multi-axis machining applications. With Jergens Fixture-Pro® quick change workholding, we have everything you need under the spindle, from subplates to vises and top tooling. Our full range of standard solutions are easily assembled to meet your specific 4 axis and 5 axis CNC machining needs, plus we have full custom design and build capabilities for your unique challenges. It begins just by knowing your basic equipment, starting with your machine table. One of the many benefits of Jergens Fixture-Pro® is the flexibility to mount the system to any machine or rotary table.

From there, you can 'build' your own, and we're here to support you every step of the way. If you need help selecting the right components for your application, just contact Jergens customer service at 877-426-2504.

#### STEP 1:

Machine Bed Knowledge

#### STEP 2:

Subplate Systems For Quick-Change and Ease of Use

#### STEP 3:

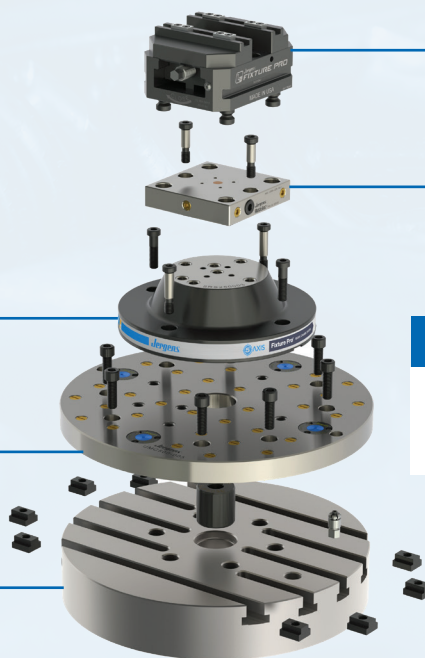
Risers for Height and Clearance

#### STEP 4:

Pallet Changers for Quick Change of Top Tooling

#### STEP 5:

CNC Vises and Top Tooling for Holding Power that Holds Up



**Jergens**  
MANUFACTURING EFFICIENCY

# *Jergens*<sup>®</sup>

MANUFACTURING EFFICIENCY

## WORLD HEADQUARTERS

15700 S. WATERLOO ROAD  
CLEVELAND, OH 44110-3898

 877.426.2504

 JERGENSINC.COM/WORKHOLDING

 WORKHOLDING@JERGENSINC.COM

DISTRIBUTED BY:



WORKHOLDING SOLUTIONS



SPECIALTY FASTENERS



LIFTING SOLUTIONS

©2020 JERGENS, INC. | IMG0820

