



20

NATE NIELSEN

DESIGN

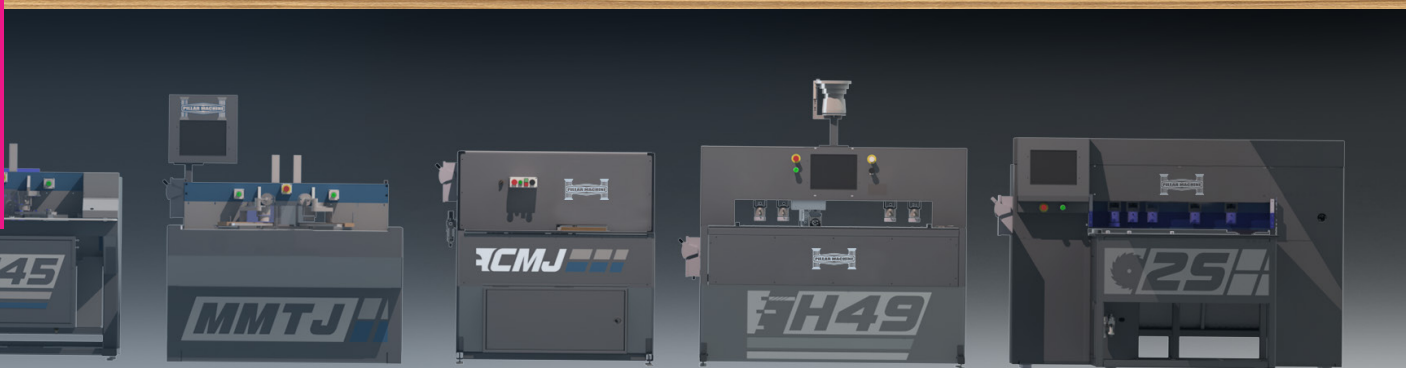
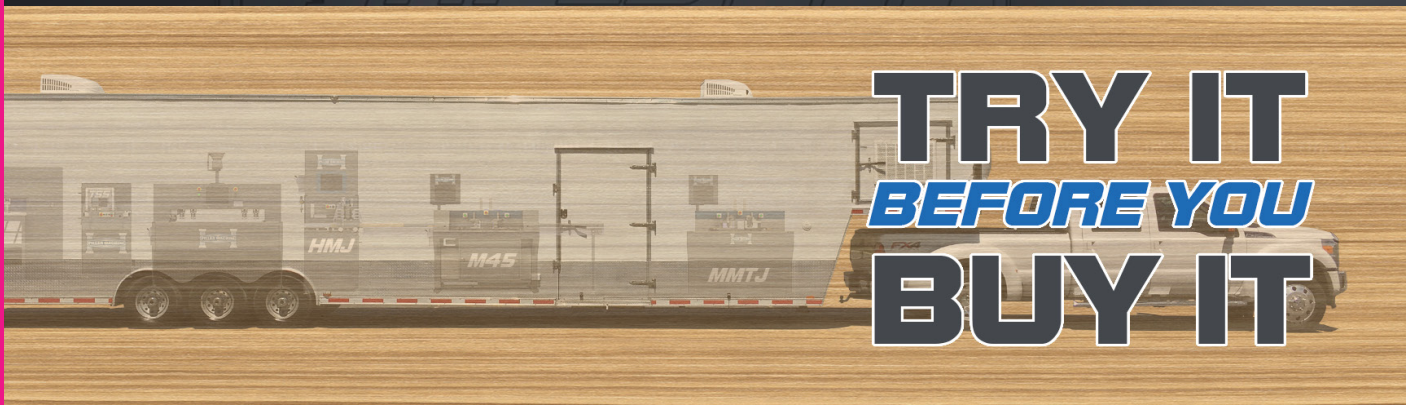
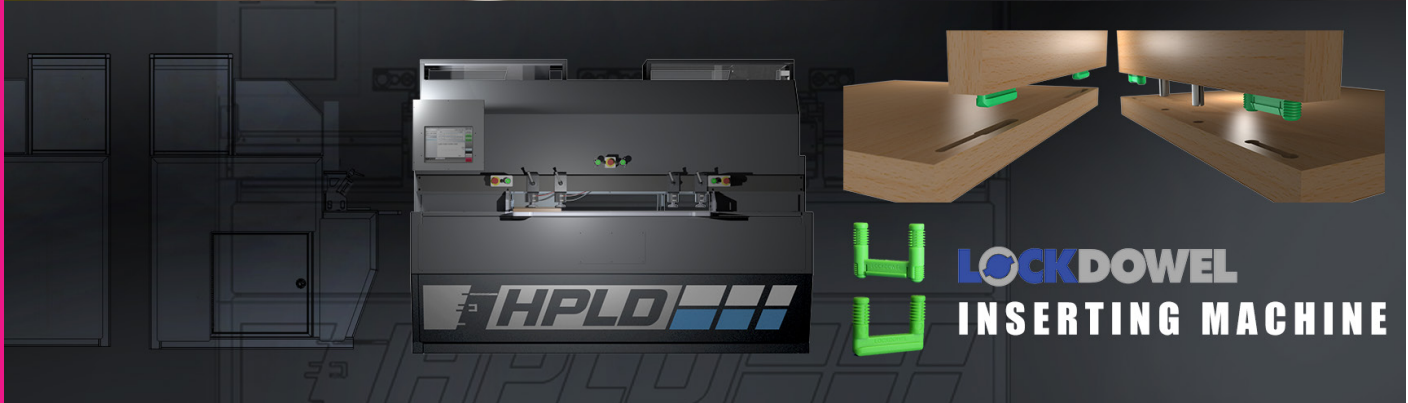
GRAPHIC DESIGN PORTFOLIO

19

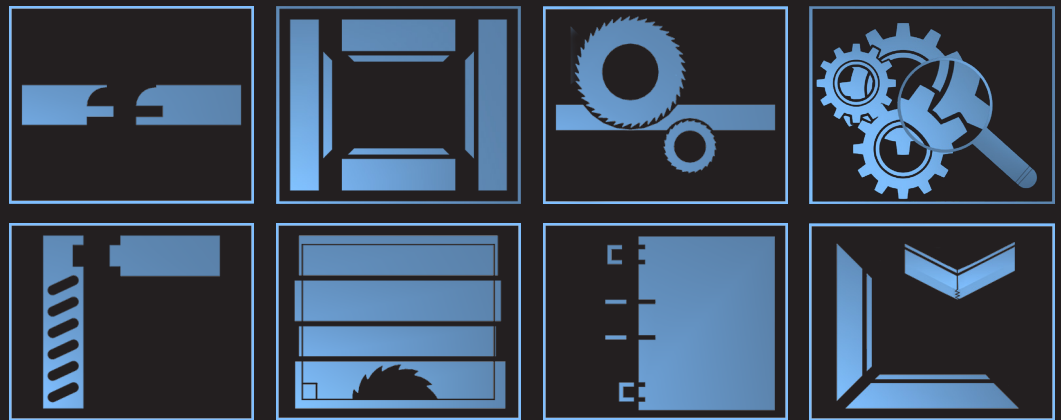


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PRODUCT ART & GRAPHICS



SOFTWARE GRAPHICS

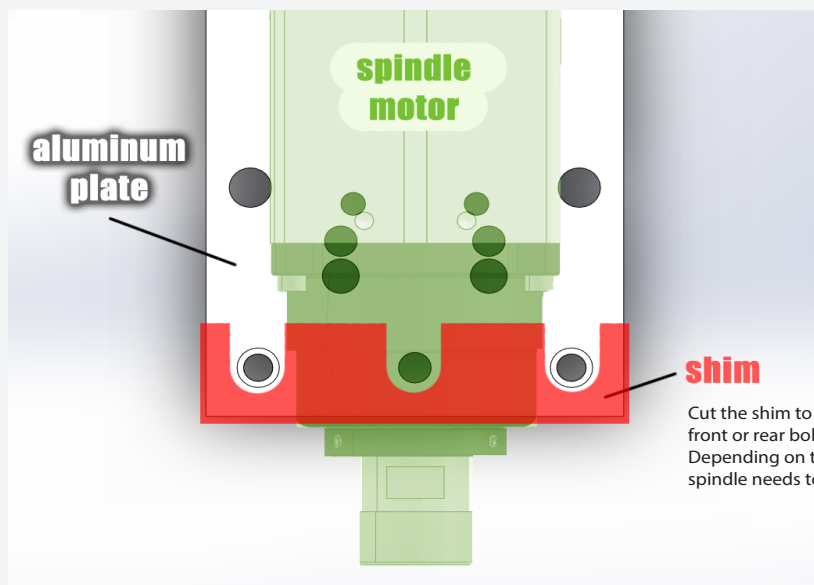


These are button
graphics for
software interfaces

Owners Manuals



SHIMMING YOUR SPINDLE MOTOR



Cut the shim to wrap around the front or rear bolts and holes. Depending on the direction the spindle needs to shift.

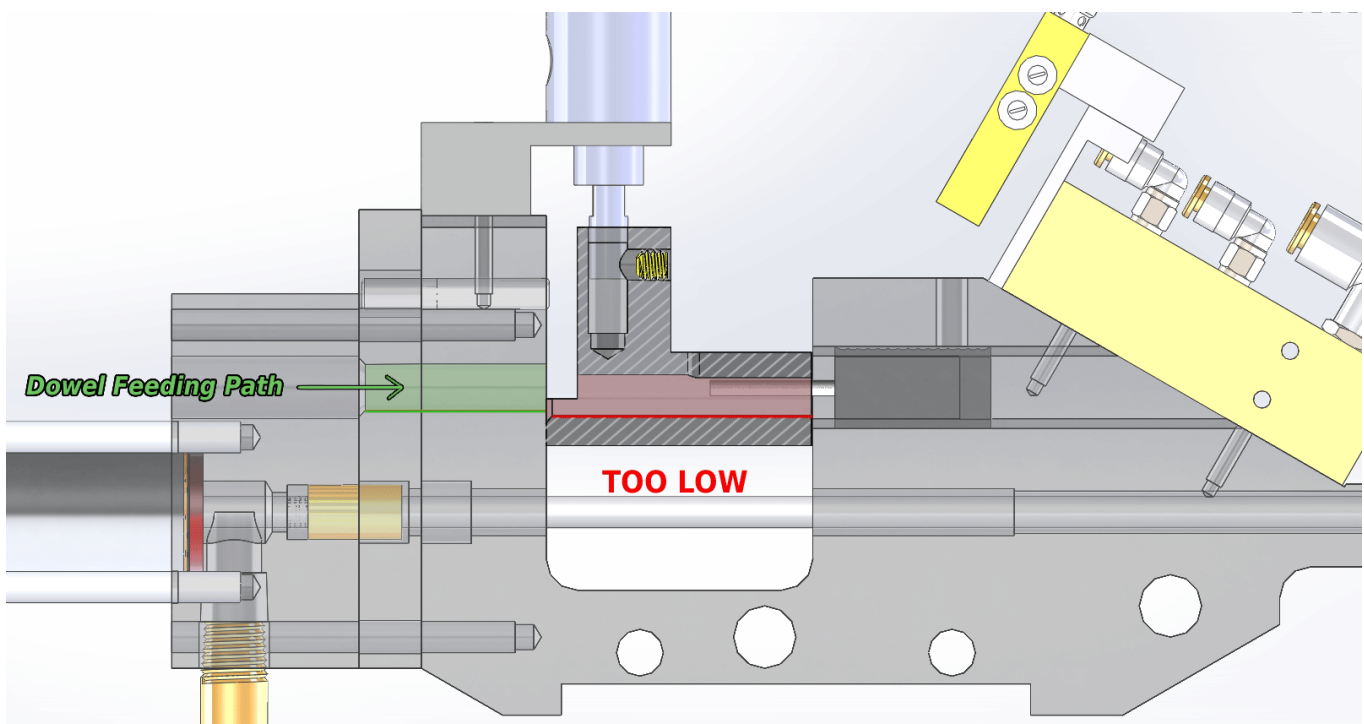
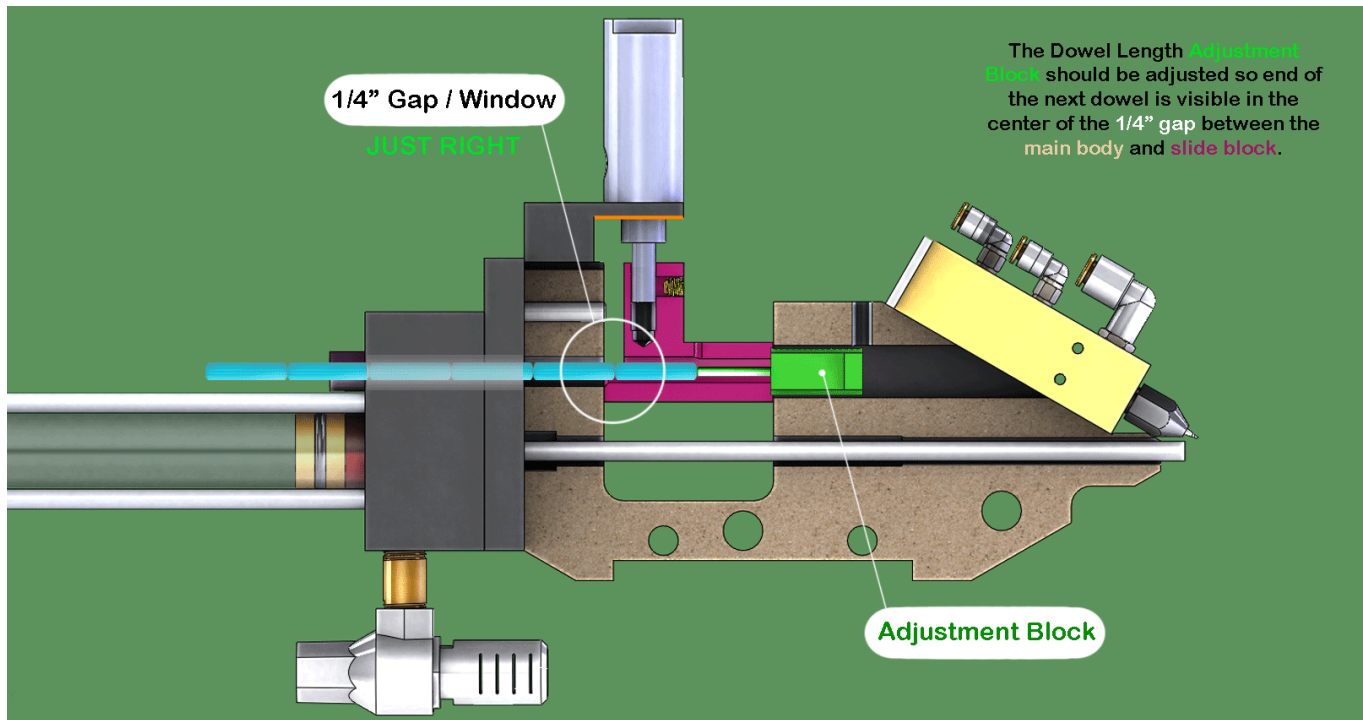


Shim should be directly under front or rear bolts as shown in top and middle images.



If shim is placed anywhere between front or rear bolts, the aluminum plates can become stressed - and bend or warp over time, causing the spindle to shift.

Owners Manuals



Product Brochures

Does your manufacturing process have room for improvement?

At Pilar Machine we enable companies to become more competitive through providing custom manufacturing solutions that help improve product quality, reduce production costs and minimize human error. Tasks once done manually can now be accomplished with the push of a button, allowing our sophisticated CNC machines to work hand-in-hand with the traditional workmanship that you are accustomed to. We work with 40+ machinery dealerships in North America and Regional Sales Engineers.



We are known as the innovators in the woodworking machinery industry. Our line of machinery has been in the industry since 1983 as we acquired the Accu-Systems line in 2013. Since then, Pilar has engineered four additional machines for the industry and continues to make robust improvements to all its standard stock machines. Today, Pilar Machine is considered the world leader in the manufacturing CNC mortise and tenon machines as well as CNC dowel insertion machines.

Our world class service department has the ability to log into your machine remotely to diagnose issues fast in order to maximize your down time.

Whether you are a small



Drilling & Dowel Inserting Haunch Joints Miter Joints

shop or a large corporation.

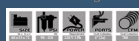
We focus on your individual production requirements and strive to provide an affordable and integrated solution that will give your business the highest competitive advantage.

MACHINE NAME	M45	MMTJ	MMTX
Doors Per 8 Hrs	150-175	175-200	400-500
CNC Axis'	2	3	6
Work Zones	2	2	4
Material Width	1 1/2" to 3 1/2"	1 1/2" to 3 1/2"	1 1/2" to 3 1/2"
Material Thickness	5/8" to 1"	5/8" to 1"	5/8" to 1"

MITER MACHINES

M45

Mortise & Tenon Miter Joints



The M45 is our smallest machine designed for creating Blind Mortise, and Tenon joints on a Mitered angle. It is a full 3 axis CNC machine. The table top is designed to allow machining of two parts at one time. Referencing is done on both the outside and face of the profile for accurate joints. The computer controls the size of the mortise and tenon. Programs are stored and recalled as needed. Changing from program to program is accomplished in seconds. Small runs as well as large batches may be done on this machine. This machine produces between 150-175 doors per 8 hour shift with one operator.

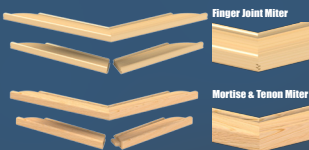
MMTX

Mortise & Tenon Miter Joints



The MMTX is the industry's highest producing machine designed for creating Blind Mortise, and Tenon joints on a Mitered angle. It is a full 6 axis CNC machine. It is much like our MMTJ and M45 machines with exception that it has one dedicated carriage to produce the tenon and another dedicated carriage to produce the mortise side. Each side of the machine has two loading stations. The computer controls the size of the mortise and tenon. Changing from program to program is accomplished in seconds. Small runs as well as large batches may be done on this machine. This machine produces between 400-500 doors per 8 hour shift with one operator.

We make two different kinds of Miter joints: Finger Joints and Mortise and Tenon joints.



MMTJ

Mortise & Tenon Miter Joints



The MMTJ is our most popular machine designed for creating Blind Mortise, and Tenon joints on a Mitered angle. It is a full 3 axis CNC machine. The table top is V-shaped to allow machining of two parts at one time. Referencing is done on both the outside and face of the profile for accurate joints. The computer controls the size of the mortise and tenon. Programs are stored and recalled as needed. Changing from program to program is accomplished in seconds. Small runs as well as large batches may be done on this machine. This machine produces between 175-200 doors per 8 hour shift with one operator.

FJ

Mitered Finger Joints



The FJ is a dual spindle PLC machining center used for producing high quality finger joint miter parts used in cabinet door manufacturing. It includes two 3 HP motors for cutting the miter and two 1 HP spindles for drilling diameter holes. There is a hogging tool to remove the majority of material before the finger joint is cut. This saves on loading costs for finger joint tools. The FJ is driven and controlled by a Gold PLC. This means there is no potentially complicated computer to operate. Because this machine has two independent carriages, it can simultaneously cut two parts at one time, making it extremely fast. It can produce between 200-300 doors per 8 hour shift with one operator.

CUSTOM TO YOUR NEEDS

HPMT

Horizontal Mortise and Tenon



The HPMT is an dual spindle unit CNC machine and tenon machining center. The machine has a full 3 axis CNC control system. You have the option to drill, linear grooving, large pocketing and many other features. It can be configured for almost any type of furniture, chair or cabinet construction application. It comes in all inch and 16 inch working table lengths.

MTJ

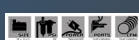
Mortise Tenon Haunch



The MTJ is a multi axis CNC horizontal machining center. It is used for producing high quality haunched mortise and tenon joints which are used in many furniture and cabinet applications. The haunch head allows the profile for haunched face frames. This machine can be used to produce cabinet doors and entry door products as well.

OHV

Over Head Vertical



The OHV is a horizontal bore and drill CNC machining center. It is equipped with a vertical overhead machining carriage. The machine fits a variety of applications such as chair construction and component parts used in cabinets or furniture.

MACHINE SERVICE AND SUPPORT

By routinely maintaining your machine you can minimize repair costs and keep your production running smoothly. At Pilar Machine we provide factory support on each machine sold. Our experienced technicians provide excellent service after delivery by phone and email assistance for any questions or concerns you may have. We pride ourselves in responding to customer questions with information and solutions in a timely and professional manner.

Machine downtime is inevitable no matter the machine or manufacturer. Downtime can be very expensive, at Pilar Machine we know this and do everything we can to make sure you get back up and running as quickly as possible.



REMOTE SERVICE AND DIAGNOSTICS THROUGH INTERNET CONNECTION

We remotely connect to your machine through an internet connection to service, diagnose or train your employees.



Industry Partners

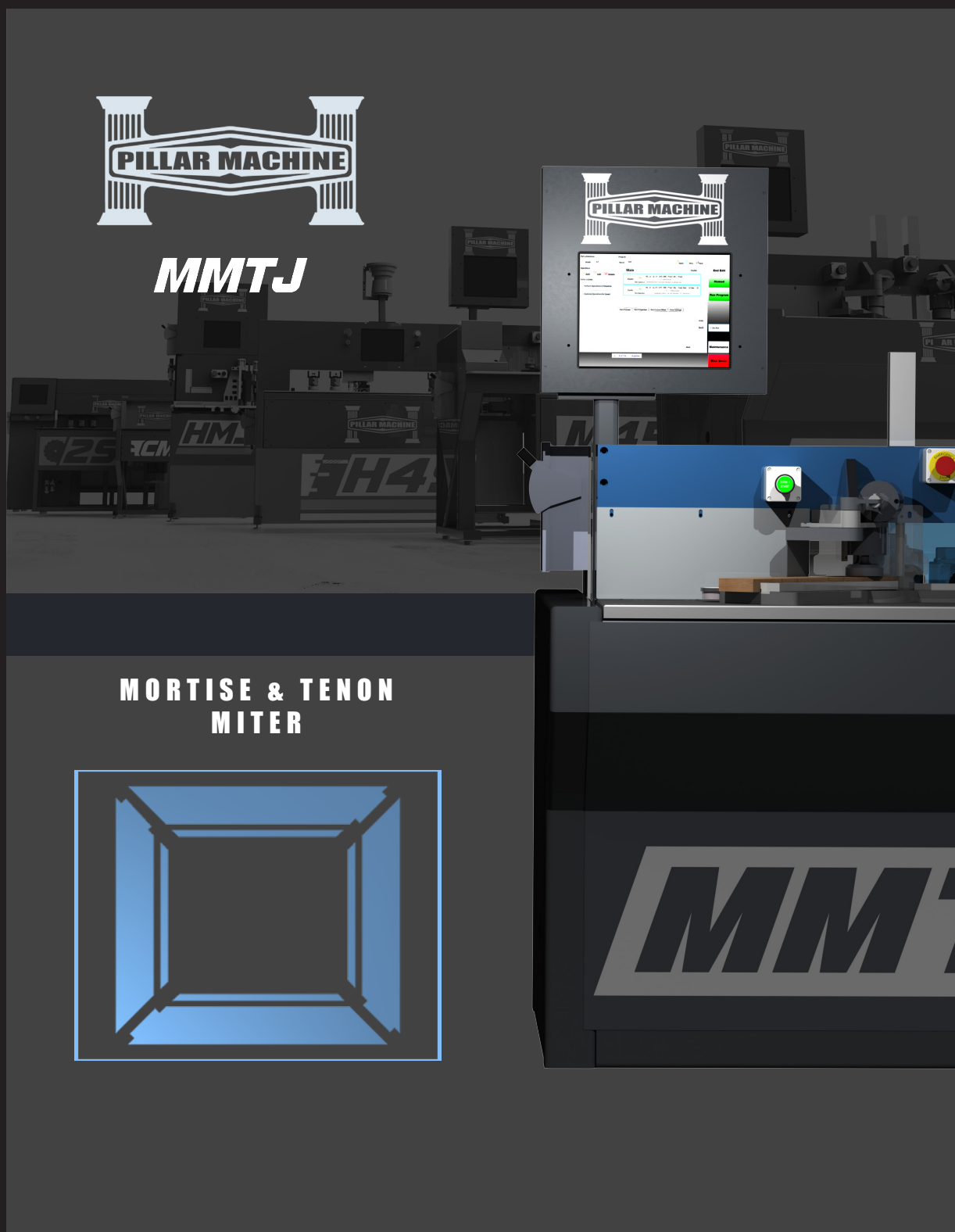
We partner with industry leading design software including Cabinet Vision and Microvellum.

cabinet vision **Microvellum**

Integrate your Pilar machine with a stop gauge or material positioning system.

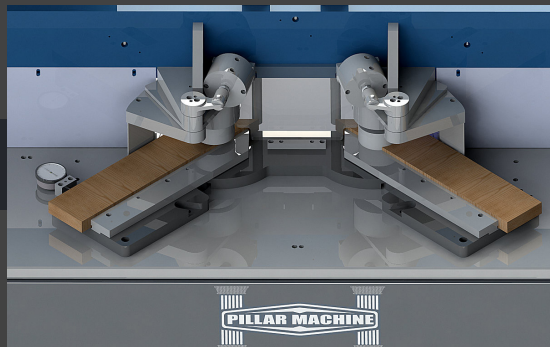
TigerStop **RAZORGAGE**

Product Brochures



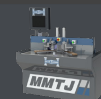
Product Brochures

The MMTJ is our most popular machine designed for creating Blind Mortise, and Tenon joints on a Mitered angle. It is a full 3 axis CNC machine. The table top is V-shaped to allow machining of two parts at one time. Referencing is done on both the outside and face of the profile for accurate joints. The computer controls the size of the mortise and tenon. Programs are stored and recalled as needed. Changing from program to program is accomplished in seconds. Small runs as well as large batches may be done on this machine. This machine produces between 175-200 doors per 8 hour shift with one operator.



Standard Features:

- 7.5 HP Miter and Tenon Spindle
- 3 HP Mortise Spindle
- Z & Y Axis CNC Rotary Ball Screw
- Square Rail Bearings
- Unlimited Program Storage
- 2 Working Zones
- Side Pressure Clamps
- Material Width: 1 1/2" - 3 1/2"
- Material Thickness: 5/8" to 1"
- 175-200 Doors Per 8 hr Shift



Options:

- 72" Servo Fence
- Increased Thickness / Width
- Diamond Tooling

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Material Thickness	5/8" to 1"	5/8" to 1"	5/8" to 1"



SIZE

W x D x H

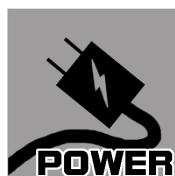
63 x 53 x 71



PSI

Air

90 - 110



POWER

Requirement

220 v 3 Ph



PORTS

Dust Collection

4" (2x)



CFM

Dust Collection

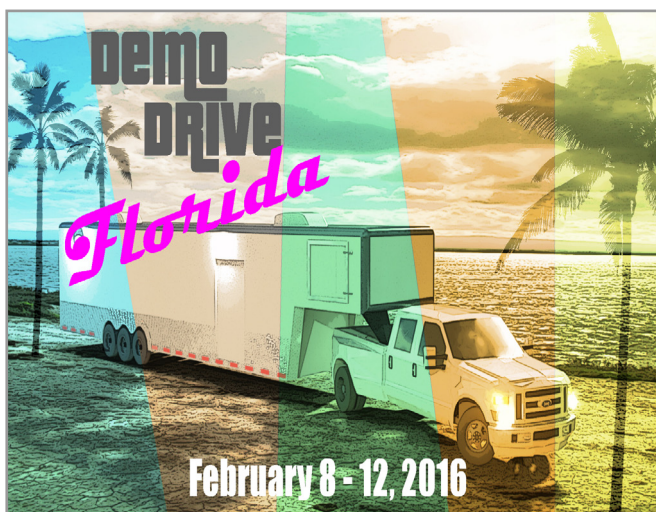
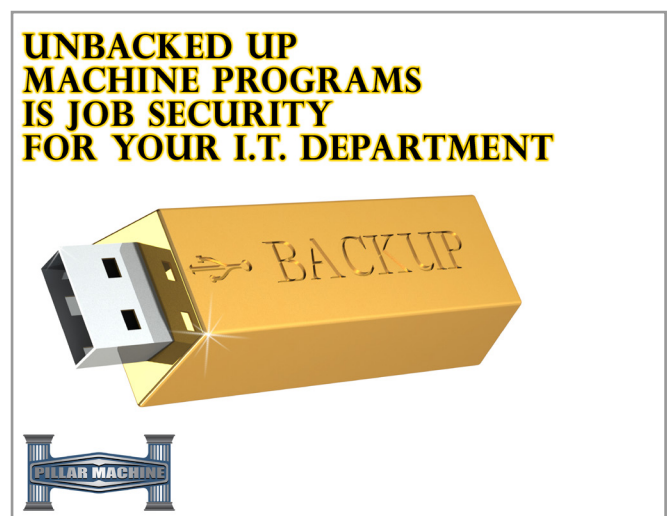
700

Pillar Machine, Inc. | 800-369-5746 | 1810 W. 5000 S. | Taylorsville UT, 84129 | www.pillarmachine.com

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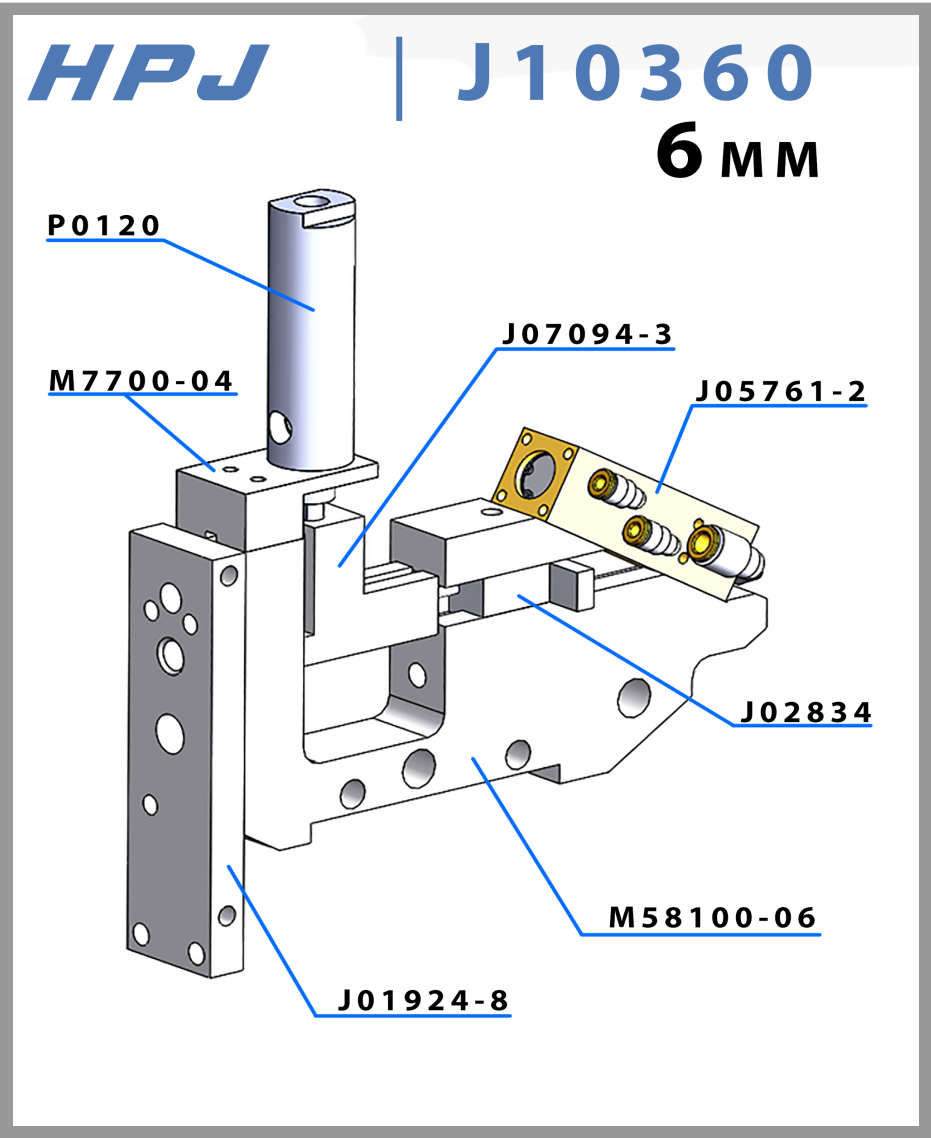
Social Media

Posts & Quotes



How-To / Info

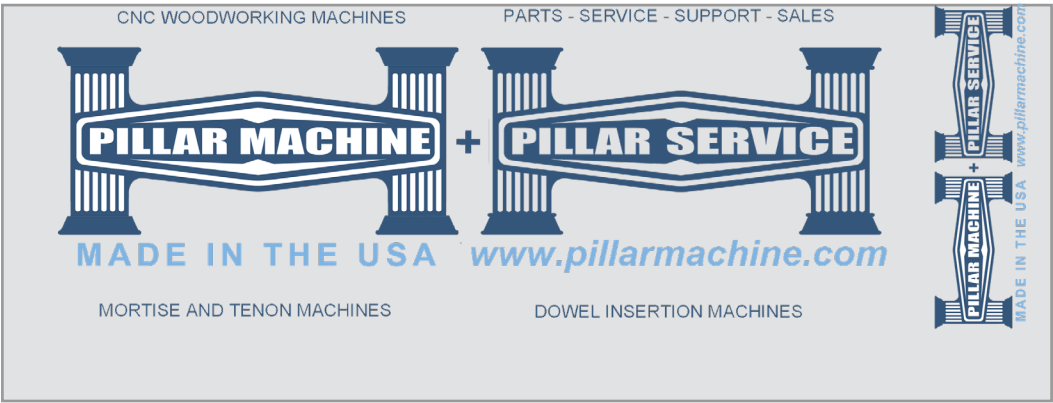
Part Diagram



- Blue Color #35567a
- 'M' white #f2f2f2
- 'P' grey #818284
- Website text #284d73

Color Code Cheat Sheet

Other / Misc.



Pack Tape Visualization



Phone



Email



Chat



DISCOUNT

Discount Code: DEMO DRIVE

