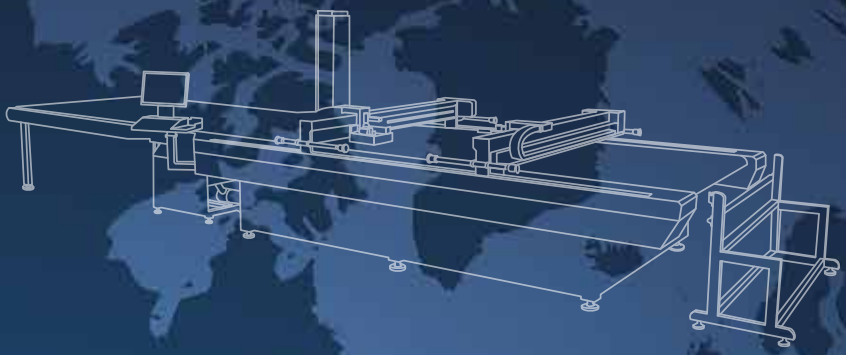
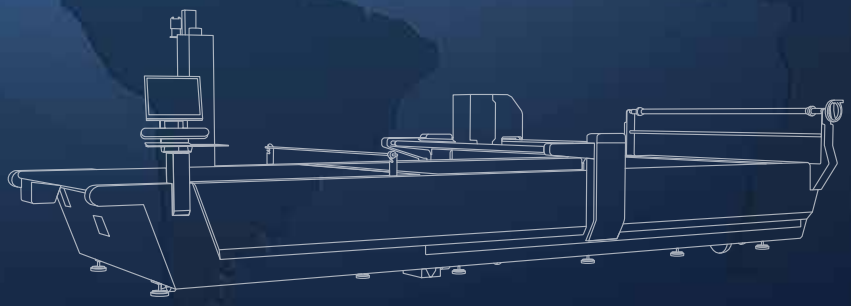
YIN USA INC.













Unleash Your Production Potential

2019 Product Guide

Based in Dallas, Texas, Yin USA is committed to helping the USA regain its leadership in manufacturing with our cutting edge technology. Local manufacturers must respond with higher quality, efficiency, and productivity, which could be achieved by implementing new high-efficiency production processes on existing products, and new products based on emerging technology. Most large manufacturers are adapting advanced manufacturing techniques to keep up with the high demands of the modern market.

Mission Statement:
Help USA regain its leadership in manufacturing with our affordable automation solutions.

YIN USA INC.

Directory

1 Significant Industries

2 YIN CAD Pattern Design Software

3 Digitizer / Plotter

4 Laser Cutters

5 Automatic Spreading Machine

5 Spreading Table / Fabric Lifter

6 CNC High Ply Cutter

8 Static CNC Low Ply Cutter

9 Full Hide Leather Cutter

10 Half Hide Leather cutter

11 Conveyable CNC Low Ply Cutter

12 The YIN Timeline

14 Financing

14 Customer Base

15 Sample Cuts



Significant Industries



Apparel

- Cotton
- Spandex
- Lycra
- Denim
- Wool
- Polyester
- Silk
- Linen
- Rayon
- Wovens
- Non-Wovens
- Textiles
- Fleece
- Jersey Knit

Automotive

- Fabric Seats
- Interior Trim
- Leather
- Airbags
- Carpet
- Rubber Backed Mats
- Foam

Home Furnishings

- Upholstery Fabrics
- Vinyl
- Fiber Batting
- Foam
- Canvas
- Carpet
- Burlap
- Chenille
- Corduroy
- Drapery Fabrics
- Suede
- Linen
- Fiberfill Polyester Stuffing
- Quilted Materials

Industrial Fabrics

- Neoprene
- Cordura
- Webbing
- Screen
- Mesh
- Canvas
- Vinyl
- Urethane
- PVC
- Nomex
- Sunbrella
- Ripstop Nylon
- Polyethylene
- Coated Fiberglass

Composites

- Dry
- Pre-Preg
- Fiberglass
- Carbon Fiber
- Adhesives
- Quartz Pre-Preg
- Honeycomb
- Fiber Reinforced Polymers
- CFRP
- Ceramic-Matrix Composites

Technical Textiles

- Kevlar
- Aramids
- Agro Textiles
- Geo Textiles
- Medical Textiles
- Sports Textiles
- Protective Textiles
- Smart Textiles

YIN CAD Pattern Design Software



Yin CAD is a user friendly software package ideal for fashion design and apparel, furniture and upholstery, automotive interiors, industrial applications, and sewn products. Yin CAD tools are easily accessible, helping you move freely through the design process. A full range of files are easily converted such as DXF, PLT, and ISO-CUT. Other easily imported files are .tmp, .zip, .vet, .iba, .mdl, and .exp.

Featured Modules:

1. **Yin CAD Pattern Editor** Design, Digitize, Grade, Verify, and Print Patterns.

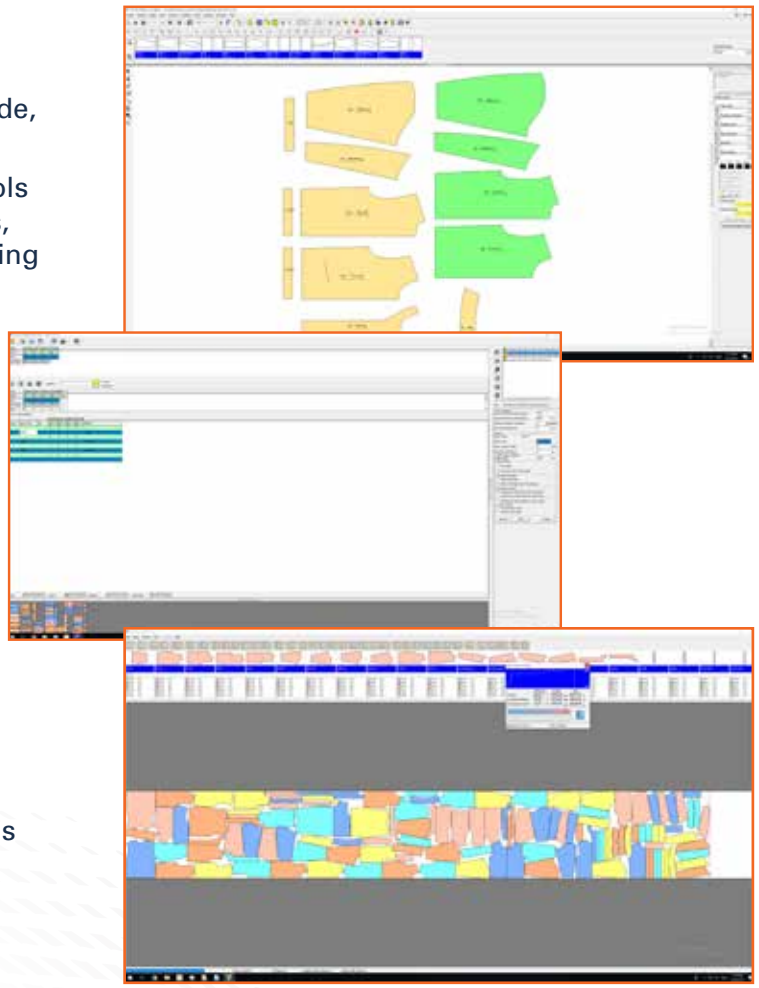
   This module provides a variety of design tools such as contour lines, internal lines, notches, and grain lines. Automatic and manual grading functions are available. Previously saved grading rules can be easily applied to new products.

2. **Yin Cut Plan** Connect Design Room to Cutting Room.

   In the cutting plan program, the operator sets the details of their work order (quantity, size, fabric type) and the cutting plan automatically delivers the size of the marker in seconds and generates an efficient cutting plan.

3. **Yin CAD Nest Expert** Automatic Marker Optimization.

   The advanced algorithms deliver fast and accurate nesting results in only seconds. This process can dramatically save materials and increase utilization.



Digitizer

Quickly and effortlessly transform your existing paper patterns into digital files with just a few clicks into your CAD system. Simply follow the perimeter of your pattern with the cursor and see your pattern appear on your screen. Your original design and shape will be digitized and saved into your CAD system for further editing and grading.



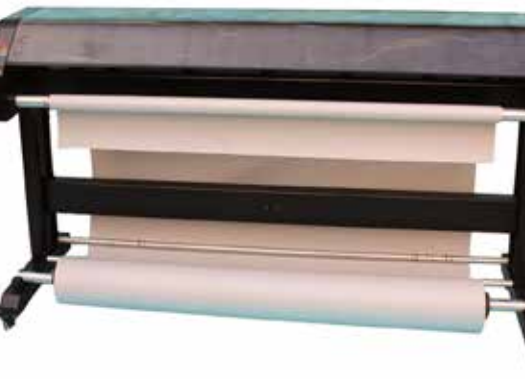
Digitizer Features:

1. **Height Adjustable**
2. **Scaler** 6 key mouse
3. **Software** YinCAD and all major CAD competitors
4. **Accuracy** 203mm (.008 LPI)

Dimensions and Specifications:

Parameters	YD-AO2	YD-AOOC
Work Area (W x H)	48″ x 36″	60″ x 44″

Plotter



Plotter Features:

1. **Low Cost/Easy to Replace Ink** HP45 Ink Cartridges
2. **Precision Printing** Servo motor system delivers precision position control for accurate markers.
3. **Flexibility** Works with an assortment of paper options due to the unique front and back paper feeding.
4. **Alerts** Notifies user with warning alert if paper jams or runs out.

Dimensions and Specifications:

Parameters	JET190F	JET220F	JET185F	JET215F
Max Plotting Width	74.8″	86.6″	72.8″	84.6″
Max Paper Width	82.6″	98.0″	82.6″	96.4″
Cartridges Number	2	2	4	4
Paper Feed System	Continuous paper feeding			
Max Paper Weight	100 Lbs			
Interface	USB 2.0			

Automatic Laser Cutting Machine YL-CMA



Dimensions and Specifications:

Parameters	CMA1080	CMA1390	CMA1612	CMA1810
Cutting Area	37.7" x 29.5"	49.2" x 22.8"	61.0" x 37.4"	68.8" x 37.4"
Laser Power	Available in Co2 60W-130W			
Wavelength	10.6 µm			
Max Cutting Speed	Up to 20m/min			
Power Supply	220V/60Hz			
Graphics Supported	BMP, GIF, JPG, PCB, TGA, TIFF, PLT, CDR, DMG, DXF			
Laser Head	Available in single or double head			
Cutting Bed	Available in static bed or auto-feeding conveyor			
Vision System	Optional with or without large format CCD camera			
Roll Feeder	Available with or without			

Specialized in Single Ply Contour Cutting

Features:

1. **CCD Camera Vision System** this camera system scans for the shape of the pattern automatically to provide accurate and efficient cuts.
2. **Durable Design** the structure is comprised of 0.23 inch thick steel sheets to provide stability. In addition, there are over 300 stainless steel fasteners to reduce vibration, which can increase precision.
3. **Trusted Components** Schneider electrical components, II-VI Infrared, Gates synchronous belt.
4. **Powerful Software** uses high-end DSP chips for strong data processing ability, there are no deformations or distortions for high speed continuous curve cutting all while achieving the shortest cutting path.

**All machines can be custom made to desired specifications.*

Flat Bed Laser Cutting Machine YL-CMA1625F



Dimensions and Specifications:

Parameters	CMA1625F
Machine Dimensions (LxWxH)	140" x 91.8" x 77.6"
Cutting Area (LxW)	98.4" x 63"
Power Supply	220v 60Hz
Laser Power	30W-150W
Cutting Speed	Up to 20m/min
Graphics Supported	BMP, GIF, JPG, PCB, TGA, TIFF, PLT, CDR, DMG, DXF

**All machines can be custom made to desired specifications.*

Our high production, flat bed laser cutting machine is the best in class in terms of stability, precision, and speed. It is suitable for engraving and cutting a wide variety of materials including fabrics, paper, wood, and composites.

Features:

1. **Automatic Feeding System** cuts cost and improves efficiency.
2. **Conveyor Bed** for continuous, trouble-free cutting.
3. **Stainless Mesh Cutting Table** is permanently wear proof and low maintenance.
4. **Trusted Components** Schneider electrical components, II-IV Infrared, Gates synchronous belt.
5. **Solid Base** with double precision rail ensures precision cuts and stability even at the highest speeds
6. **Powerful Software** strong data processing ability provides fast and continuous curve cutting without deformations or distortions.

Automatic Spreading Machine SM-IA



Specialized for Fabric Rolls

Features:

1. **Full servo intelligent control** gives more torque, higher speed, and greater precision.
2. **The photoelectric sensor** provides accurate edge-to-edge automatic spreading.
3. **A fabric sensor mechanism** stops the machine and returns it to the starting point when the roll is finished.
4. **The spreader** will automatically adjust according to the thickness of the fabric.
5. **Emergency stop features** ensure the spread fabric is not dragged.
6. **The cradle feed system** is equipped with a tension control system for the spreading of difficult fabrics.

Dimensions and Specifications:

Parameters	SM-IA (1.6M)	SM-IA (1.8M)	SM-IA (2.0M)	SM-IA (2.2M)	SM-IA (2.4M)
Cutting Area	62″	70″	78″	86″	94″
Max Fabric Weight	220 lbs.				
Weight (lbs.)	827	849	882	926	970
Spreading Height	7.87″				
Spreading Speed	295 ft/min				
Power Supply	220V/60Hz, 1 phase, 2.2 Kw, 10 amp				
Way of Spreading	Single direction spreading, face-to-face spreading, unequal length spreading				

** The equipment can be customized according to your actual needs.*

Spreading Tables/Automatic Lifter

Table Features:

The air flotation tables ensure that fabric moves easily from spreading to cutting tables. Ideal for long markers and heavy weight materials, it has holes every 7.5 inches to ensure even air distribution. One blower is recommended for every 3 tables for optimum fabric mobility.



Dimensions and Specifications:

Available Table Dimensions (L x W)				
47.2″ x 72.8″	47.2″ x 80.7″	47.2″ x 88.5″	47.2″ x 96.4″	47.2″ x 104.3″

Lifter Features:

This machine is specifically designed to lift heavy rolls of fabric onto automatic spreading machines and spreading tables. This machine is capable of lifting 1000 pounds.

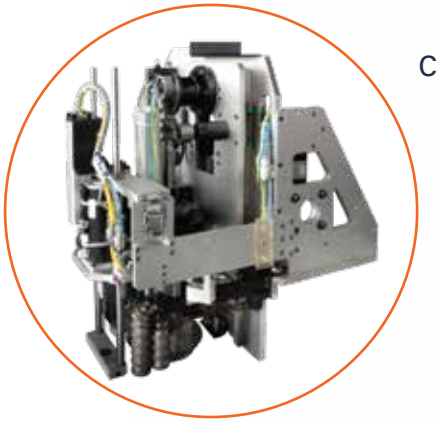


Dimensions and Specifications:

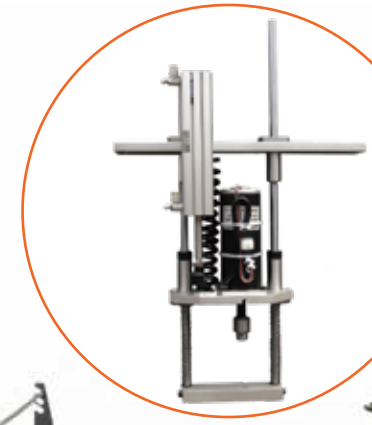
Parameters	LM-16	LM-18	LM-20	LM-22
Size (LxWxH)	47″ x 82″ X 74″	47″ x 89″ X 74″	47″ x 97″ X 74″	47″ x 105″ X 74″
Max Fabric Weight	1000 lbs.			
Max Fabric Diameter	31″			
Power Supply	220V 3 Phase 60 Hz 10 amp			

** The equipment can be customized according to your actual needs.*

Automatic CNC Cutting Machine HY-HC Series



Cutter Head





Vacuum Pump



Cutter Control Software

Features:

1. **Conveying Bristle Block Bed** the cutting bed is made up of durable bristle blocks that can't be damaged by the reciprocating knife during cutting.
2. **Reciprocating Blade** equipped with our patented diamond double-wheel sharpener for longevity and precision cuts.
3. **Software Mitigation** with eight adjustable levels of power, the vacuum chamber will keep fabrics stable while cutting to improve accuracy. There is also melting control software to provide a greater range of fabric cutting capabilities.
4. **State-of-the-Art Japanese Technology** designed and integrated with Japanese technology machined to the most precise specifications including the computer, the electrical equipment, the motor and the drivers.
5. **User Friendly Technology** operating system is simple to use and is filled with automatic features to maximize your runtime including automatic troubleshooting and diagnosing, automatic cloth alignment correction and automatic conveyor load assist.

Specialized in High Ply Cutting

Drilling Device

Sharpening Device



Cooling Device





Servo Motors



Bristle Blocks



Dimensions and Specifications:

Parameters	HY-HC1705JS	HY-HC2007JS	HY-HC2311S	HY-HC3205LS
Cutting Area (L x W)	74.8" x 62.9"	74.8" x 74.8"	74.8" x 86.6"	122" x 122"
Power Supply	220V 3 Phase 60Hz 60amp			
Max Cutting Height (After Absorption)	1.96"	2.75"	4.33"	1.96"
Compressed Air	90PSI @ 5.5CFM			
Max Mechanical Speed	196 ft/min			
Total Weight (Lbs)	4,850	6,614	7,496	11,023

**All machines can be custom made to desired specifications.*

Automatic CNC Cutting Machine HY-S



HY-S1624



HY-S0909

Specialized for Low Ply Static Cutting

Features:

1. **Static Bristle Block Bed** the cutting bed is made up of durable bristle blocks that can't be damaged by the reciprocating knife during cutting.
2. **Reciprocating Blade** equipped with our patented diamond double-wheel sharpener for longevity and precision cuts.
3. **Software Mitigation** with eight adjustable levels of power, the vacuum chamber will keep fabrics stable while cutting to improve accuracy.

   There is also melting control software to provide a greater range of fabric cutting capabilities.

Dimensions and Specifications:

Parameters	HY-S0906	HY-S0909	HY-S0912	HY-S1606	HY-S1609	HY-S1612	HY-S1624
Cutting Area (L x W)	18.7′ x 2.6′	28.5′ x 2.6′	38.3′ x 2.6′	18.7′ x 4.9′	28.5′ x 4.9′	38.3′ x 4.9′	6.8′ x 4.9′
Power Supply	220V 3Phase 60Hz 60amp						
Compressed Air	90PSI @ 5.5CFM						
Maximum Mechanical Speed	196 ft/min						
Maximum Cutting Height (After Absorption)	0.2″						

**All machines can be custom made to desired specifications.*

Automatic Leather Cutting Machine IC800DHC



Specialized in Full Hide Leather Cutting and Composite Material Cutting

The IC800DHC is equipped with dual cutting heads and a conveyor cutting table. There are three working areas including a nesting section, a cutting table, and a pickup table. An optional leather reader can be set up in the nesting section or it can be set up in a different area of your plant to maximize your production.

Features:

1. **Felt Conveyor Bed** adjustable vacuum bed to control suction
2. **Micro-Reciprocating Drag Knife** provides precision cuts for a variety of materials. The system allows for drag and drop nesting in order to rearrange patterns by hand
3. **Multi-Tooled Head** 2 drills, 1 punch hole, 1 pen, 1 knife
4. **Accepts Various File Types** DXF and CUT file formats. There is also melting control software to provide a greater range of fabric cutting capabilities.

Optional Features:

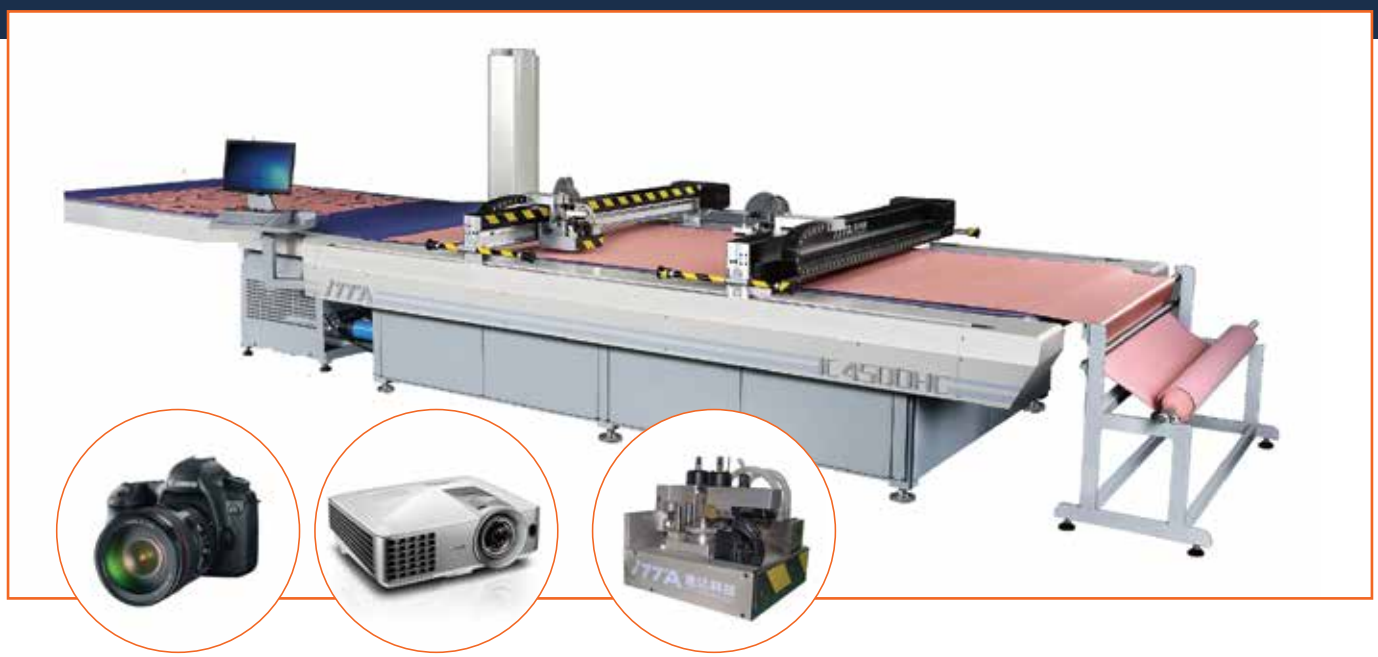
- **Intelligent Vision System** optional camera system with auto nesting software. The system will detect errors in the hide and nest with the imperfections in mind.
- **HD Projection System** projects your nested pattern onto your leather piece
- **Auto Feeder** fabric roll feeding system for rolled materials
- **Leather Reader** automatic leather reading and nesting station

Dimensions and Specifications:

Parameters	IC800DHC
Machine Dimensions (L x W x H)	433" x 130" x 142" (height with projector)
Cutting Area (L x W)	110" x 126"
Power Supply	220v 3Phase 60Hz 100amp
Compressed Air	90PSI @ 5.5 CFM
Max Mechanical Speed	275 ft/min
Knife Vibration Frequency	15,000 – 18,000 times/min

**All machines can be custom made to desired specifications.*

Automatic Leather Cutting Machine IC450DHC



Vision System

HD Projection System

Cutter Head

Specialized in Half Hide Leather Cutting and Composite Materials

The IC450DHC is equipped with dual cutting heads and a conveyor cutting table. An optional intelligent vision system takes a picture of your leather hide and then automatically nests your pattern pieces within the hide while avoiding any defects in the piece.

Features:

1. **Felt Conveyor Bed** adjustable vacuum bed to control suction
2. **Micro-Reciprocating Drag Knife** provides precision cuts for a variety of materials. The system allows for drag and drop nesting in order to rearrange patterns by hand
3. **Multi-Tooled Head** 2 drills, 1 punch hole, 1 pen, 1 knife
4. **Accepts Various File Types** DXF and CUT file formats

Optional Features:

- **Intelligent Vision System** optional camera system with auto nesting software. The system will detect errors in the hide and nest with the imperfections in mind.
- **HD Projection System** projects your nested pattern onto your leather piece
- **Auto Feeder** fabric roll feeding system for rolled materials
- **Leather Reader** automatic leather reading and nesting station

Dimensions and Specifications:

Parameters	IC450DHC
Machine Dimensions (L x W x H)	256" x 90" x 122" (height with projector)
Cutting Area (L x W)	63" x 118"
Power Supply	220v 3Phase 60Hz 100 amp
Compressed Air	90PSI @ 5.5CFM
Max Mechanical Speed	275 ft/min
Knife Vibration Frequency	15,000 – 18,000 times/min

**All machines can be custom made to desired specifications.*

Low Ply Conveyable CNC Cutting Machine IC2516C



We are very excited to introduce our newest automatic cutting machine. This high-precision single- to low-ply conveyable cutting machine has the versatility to cut composites, technical textiles, leather, upholstery, vinyl, and rolled fabrics. Having such flexibility and precision in one cutting machine is extraordinary.

Features:

1. **Felt Conveyor Bed** adjustable vacuum bed to control suction
2. **Micro-Reciprocating Drag Knife** provides precision cuts for a variety of materials. The system allows for drag and drop nesting in order to rearrange patterns by hand
3. **Multi-Tooled Head** 2 drills, 1 punch hole, 1 pen, 1 knife
4. **Automatic Troubleshooting and Diagnosing** self diagnosing feature reports error codes for quick troubleshooting and reduced downtime
5. **Accepts Various File Types** DXF and CUT file formats

Optional Features:

- **Intelligent Vision System** optional camera system with auto nesting software. The system will detect errors in the hide and nest with the imperfections in mind.
- **HD Projection System** projects your nested pattern onto your leather piece. You then have the option to manually nest.
- **Auto Feeder** fabric roll feeding system for rolled materials
- **Pneumatic Head** upgraded head allows the cutting height to increase from .2" to 1".

Dimensions and Specifications:

Parameters	IC2516C
Machine Dimensions (L x W x H)	148" x 85" x 32" (height with projector)
Cutting Area (L x W)	98.4" x 63"
Cutting Height	0.2" to 1" depending on head option
Power Supply	220v 3Phase 60Hz 100amp
Compressed Air	90PSI @ 5.5CFM
Max Mechanical Speed	275 ft/min
Knife Vibration Frequency	15,000 – 18,000 times/min

**All machines can be custom made to desired specifications.*

The YIN Advantage and Timeline

1970s
CNC Automatic High Ply cutting machines began research and development.

2006
Yin Group was the first company to introduce auto cutting technology to China.

2009
Establishment of Yin Japan and R&D headquarters in Osaka.

2011
Shanghai production base founded.

Established in 2012, Yin USA has more than 100 installations across the United States, Canada, and Mexico. With a central location in Dallas, Texas, additional technicians are located in Chicago, Los Angeles, Atlanta, and New York. Our team members will provide your business with a customized solution to optimize your production.



TECHNICAL SUPPORT

Yin USA's bilingual customer support team is headquartered in Dallas, Texas giving it a very central location in the USA. Our service and support is second to none and any of our trained professionals can be on any site within the continental United States in 24 hours or less. Making us one of the few automation providers with personalized service.



AFFORDABLE SOLUTIONS

Our solutions are extremely beneficial for most corporations given the fact that more than 90% of cases, the investment is returned in less than 18 months with no other interference. After the mentioned period, one can expect a large output in production with minimal costs attributed to the units. This in turn leaves more time and resources to improve the process elsewhere, making manufacturing a simple endeavor.

2012	2013	2014	Present
Yin USA was established to serve Canada, the US, and Mexico.	Yin Europe works to bring intelligent storage systems into our product line.	Yin Argentina begins to serve the growing market in Latin America.	Yin Group's latest development is a platform to connect designers and manufacturers all over the world, called the C2M model.



WARRANTY

We provide a 1 year unconditional warranty for any service, product, equipment, and solution that is acquired from Yin USA. Any problem that might be encountered or error from manufacturing is covered under a 1-year warranty. It will be fixed at no cost to you. We are proud of our quality, and we put our word and resources behind it.



NO SERVICE CONTRACTS

Yin USA Inc. prides itself by the fact that we do not require service contracts in order to purchase or maintain the equipment. We believe that if once acquired, the solution and equipment is owned by whoever acquired it.



LOW MAINTENANCE

Our solutions require minimal attention and maintenance. We provide solutions that are easy to maintain and require minimal maintenance. This is achieved by not over designing any of our solutions or products. Yin also does its best to train anyone who acquires our solutions, to be fully trained, so they can troubleshoot and maintain their machine in-house. This in turn makes for an always running equipment situation.

Financing



Deciding to automate your business doesn't have to be a stressful process. We will help guide you through the process and help you decide if automation makes sense for you. Show us the typical patterns you are working with and we will show you how our software will automatically optimize your markers and analyze how much money you could be saving in fabric utilization alone.

With your patterns and requested material, we will gladly make test cuts so you can see if our precise cuts will work for your manufactured goods. We can time the process for you and share the cutting reports to see if we can help speed up your manual process.

We can input your information into our ROI (return on investment) calculators to show you how quickly your automation could pay for itself, and the impact it would have in your growing business.

If you are a small to medium-sized business owner and are looking to expand your business, we have financing available to you. There are a range of different options for you, depending on what your needs are. If you are looking for an equipment leasing solution, your estimated monthly payment would be $2003.89 for 60 months on $100,000 worth of machinery. Of course, the actual number depends on the final selling price and your credit history.

World-Wide Customer Service

We have one account manager dedicated to each customer and each machine. You won't find that dedicated customer service anywhere else. With over 100 installations in the U.S. alone, we also have over 80% of the market share in China.

20 Subsidiaries in the US, Japan, Germany, Argentina, and China .
More than 120 distributors
Products sold to more than 100 countries and regions
Over 500 individual agents around the world.





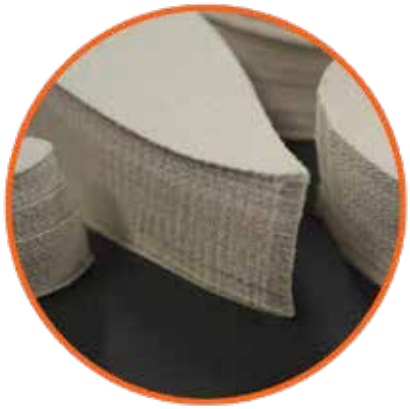
Sample Cuts



Kevlar



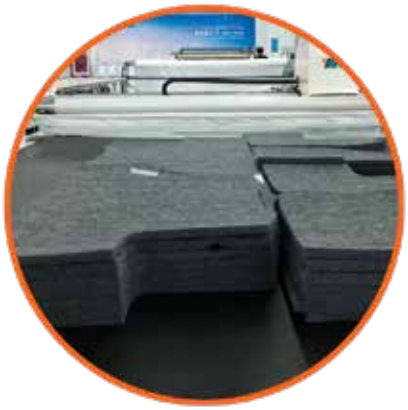
Synthetic Insulations



Canvas



Aramid Honeycomb



Foam



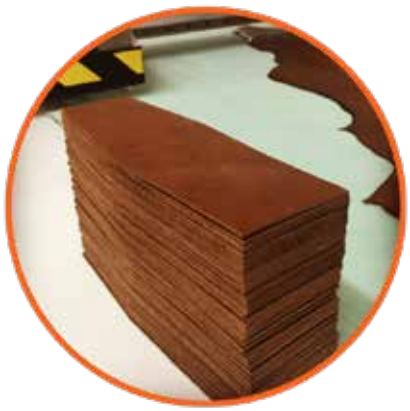
Woven Fabrics



Rubber Backed Carpet



PU Leather



Leather



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