



Member Guide

2024-08-26

DRAFT
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Welcome

Welcome to Protohaven!

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Community

Culture

Community Guidelines

1. Be Respectful

Our students, members, and partners bring with them a rich variety of experiences, perspectives, and aspirations. What brings us together is a shared interest in the process of making things. To create a welcoming, supportive environment, we ask each individual to treat one another with care and openness to diversity of race, gender, orientation, age, identity, and ability.

Actions that bully, degrade, or threaten any individual or group are not welcome in our community.

2. Take Responsibility

Protohaven is built around shared resources - space, tools, knowledge, and the community itself. To preserve these communal assets, each individual is asked to take responsibility for their own actions and to be mindful of how they impact those around them. We are each accountable for ourselves, and don't expect others to bear the costs of our actions.

3. Help Out

Protohaven is a public charity and is made possible only by people giving more than they take. In this spirit, we ask each individual to find opportunities to help each other, the organization, and our broader community. We also ask each individual to recognize that assistance is not always sought, to seek consent before providing aid, and to provide opportunity for others' work and discovery.

Shop Rules

1. Be Safe

Get Safety Clearances: Most tools in the shop require an Equipment Clearance Class or Test before use. Do not use this equipment before obtaining the necessary clearance. These clearances are the bare minimum requirements to use the equipment and are not a substitute for consulting manufacturers' safety guidelines, asking for help, or following general safety principles.

Wear Protective Equipment: Closed-toed shoes and safety glasses are required and hearing protection is recommended in the Workshop area of the space. Wear a respirator when sanding or spraying. Use dust collection, fume extractors, and ventilation fans where provided. No gloves, loose clothing, or dangling hair or jewelry

around tools that spin. Additional PPE (Personal Protective Equipment) may be required for specific areas and tools.

Watch and Reset Equipment: Never leave a piece of machinery operating unattended. If you've changed equipment settings or setup during use, return them to their original states before leaving the tool.

2. Take Care of the Tools and Equipment

Get Clearances: Each tool and piece of equipment is different and most are expensive and/or delicate. Safety Clearances and Classes provide machine-specific care details so you can effectively use a tool or piece of equipment without damaging it.

Do Not Alter or Use Beyond Limits: Tools at the shop are set up to serve a large number of people and projects. Do not permanently alter them for a particular use. If you temporarily change settings or setup, return them to their original state before leaving the tool. Only use tools within their specified parameters.

Notify When Maintenance Is Needed: We can only fix what we know about. Please use the status tag at each machine and online reporting system to indicate when repair is needed.

3. Keep the Shop Clean

Clean Up After Yourself: Making things creates garbage and debris. You are responsible to clean it up. Your work area should look better when you leave than when you started.

Return Tools to Their Original Locations: Large equipment should not be moved for use. Smaller tools or carts should be returned to their original location when you are finished.

Pay for Overnight or Monthly Storage: Unless you have paid overnight or monthly storage (of which there are many options), everything you bring in with you must leave when you leave for the day. If you pay for storage, you may only store items in the area designated for you. Anything left outside of your paid storage may be removed and disposed of. Storage can be purchased through the Shop Tech on duty.

Health and Safety

TODO: PPE

TODO: AED/First Aid Kit/Fire Extinguishers

Covid Protocols

Before Coming to Protohaven

Before coming to Protohaven, we ask everyone to verify that you:

1. Pass a self-screen for common Covid symptoms, meaning:
 - No fever
 - No cough or shortness of breath
 - No change in sense of taste or smell, and
2. Have not had close contact with someone who has tested positive for Covid in the last 10 days
3. Use the online calendar to schedule a time to visit the shop, so we have a record of all visitors

If someone has had symptoms or contact, we ask that they not return to the shop until they either receive a negative Covid test result, or wait 10 days after their last symptoms or contact.

While at Protohaven

While using the shop, we ask you to:

- Wear a cloth facemask if you are not vaccinated
- Maintain six feet social distance from others,
- Regularly wash their hands
- Carry a supplied cleaning kit and wipe down commonly-touched surfaces before and after use

After Leaving

If, after leaving the shop, a visitor develops common Covid symptoms, we ask that they get tested for Covid-19 and share the results with us. This allows us to take the appropriate cleaning, testing, and notification measures if the test comes back positive.

Programs

Classes

Classes are the entry point to our community. They focus on teaching design, fabrication, and related skills. They dive into everything from basic skills and safety to immersive projects that teach students how to operate equipment with confidence to advanced maintenance and troubleshooting intensives that earn members clearance to join our maintenance crew. They range from introductory public talks and workshops to in-depth multi-week courses. Not all classes provide clearances. Be sure to read course descriptions carefully.

Beginning Fall 2021, they will be primarily organized by a trimester Spring/Summer/Fall calendar. Class development and support are led by the Education Coordinator and Executive Director and taught by either staff, Teaching Fellows, or contract instructors.

Getting Cleared on Tools

Most tools in the shop require clearance before independent use as a member. Each tool is different and most are expensive and/or delicate. You can find our full list of equipment and the clearance associated with each tool at protohaven.org/equipment.

Each new member receives a free clearance (or \$45 off a 101 Class) when they join and complete the New Member Orientation.

There are two pathways to get cleared to use equipment as a member:

1. Take a Class — Learn through making things together!

We think the best way to gain clearance on a piece of equipment that is new to you is through a hands-on, supportive class that may include a clearance. They're also a great way to advance skills that you may already have. Our classes are open to the public.

- 1.a. Open to the public, no experience required (unless otherwise stated).
- 1.b. 3-6 students maximum, depending on the class.
- 1.c. Minimum of two participants. Classes may be canceled due to low enrollment.

2. Schedule a Clearance — Study shop protocols & show us your skills!

If you have previous experience on a tool our Clearances are designed for you. These are exclusive to members and are scheduled by request. You'll need to demonstrate to your instructor that you can use the equipment safely, carefully, and cleanly to receive clearance. Clearances are pass/fail. YOU WILL NOT RECEIVE ANY INSTRUCTION DURING THIS SESSION.

- 2.a. Open to active members, scheduled with minimum 72hr lead time
- 2.b. 2 students maximum
- 2.c. 1 student minimum

Intensive Courses

We're incredibly excited to offer intensive, multi-session courses! This is the most in-depth, supportive pathway for anyone to grow confidence working independently, deepen their skills, and gain clearance on equipment.

Our intensive courses are the only class offering that include membership, homework, a private #class-channel on our discord server, and peer group meetups between sessions. Existing members receive a special discount on all our multi-session courses! It is important to note that existing members who enroll in an intensive do not receive free, discounted, transferred, refunded, or prorated membership during this time.

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Membership

Membership is a long-term educational and support program for design and fabrication enthusiasts and professionals. Protohaven members receive discounts on public courses, gain independent access to the 12,500ft² Wilkinsburg campus for self-guided projects, participate in member-only learning circles, and receive individual guidance based on their specific goals.

The space includes professional-quality tools and equipment in 15 different disciplines ranging from graphic design and laser cutting to woodworking and welding.

Each new member also receives a free Basic Clearance (or \$45 off a class) when they join for the first time and complete the New Member Orientation.

Age Requirements Minors using the shop outside of scheduled classes must be members and accompanied by a parent or guardian who is also a member.

Workshop access is limited only to those 16+ years of age.

Studio access is limited only to those of 12+ years of age.

Affordability At Protohaven we are dedicated to being an accessible and equitable makerspace. Low income rates are available for those who require financial assistance to become members through our Access to Making Program (AMP). You can apply for an income based rate on our website.

Membership Types (Note: Rates will be changing as of 4/1/23)

	Weekend	General	Pro (currently unavailable)
Pricing	\$65.00/mo	\$115.00/mo	\$265.00/mo
Access to Workshop and Studio			
First Clearance Free (or \$45 toward a class)			
Weekend hours Sa/Su: 10am - 10pm			
Weekday hours M-Th: 10am - 10pm Fri: 10am - 10pm			
24/7 Access			

General Access during all of our public hours, Monday – Thursday 10am – 10pm and Friday – Sunday 10am – 10pm. Our most popular option for enthusiasts who want to be able to use the shop anytime during our public hours. Sign-up for a General Membership.

Weekend Access every Saturday and Sunday 10am – 10pm. An affordable option for those just getting into making, or who need only occasional access and can come in on the weekends. Sign-up for a Weekend Membership.

Pro* 24/7 access. Pittsburgh's only co-working space that includes a full design studio and fabrication workshop. For professionals or dedicated makers who want to start early and stay late. Requires additional training, and buddy-system for off-hour use of Workshop.

Materials & Consumables It is the responsibility of the maker to provide their own materials and consumables in the workshop this includes the materials you are using to construct your work, but also certain consumables that are required for equipment to function (ie. sandpaper, welding nozzles, flux, contact paper, etc.) Our store has some of these items in stock, but we cannot guarantee that everything you need will be in stock at all times. Please come prepared. Anyone wanting to purchase consumables, must see the Shop Tech on duty.

Canceling Membership

[How to Switch or Cancel Membership](#) You can cancel your membership at any time by navigating to **My Account > My Subscription > Cancel**.

To switch or resume your membership follow the same steps and cancel your existing membership followed by purchasing your desired membership from the [Membership](#) page.

Scheduling a Clearance

Clearances are required before members can operate equipment independently at Protohaven. Learn more at "[Getting Cleared on Tools](#)" under the "[Classes](#)" section of this guide.

As a member, you can schedule a Basic Clearance for equipment where you hold previous experience. Sign into your Protohaven account and go to our [Basic Clearances](#) page to schedule.

As an important next step, you'll need to study the public, shop-specific protocols by visiting the [Tool Tutorial](#) before your clearance.

Tool Tutorials

Tool Tutorials are public guides to the basic safe, careful, and clean use of the equipment at Protohaven. They're the basis for receiving clearance on equipment, and are also useful resources for ongoing use.

We've just started their development, but will be creating them for each piece of equipment in the shop that requires clearance to use.

The **table of contents** on the left hand menu allows you to quickly jump to the section you need.

The **Initial Setup, Basic Operation, and Cleanup Checklists** are what instructors use to ensure that you can use the equipment according to community expectations.

Reserving Equipment

Members are required to reserve time slots for equipment and areas online using their Protohaven account. Reservations are for one and two hour blocks and can be reserved multiple times. You must be cleared in an area or piece of equipment in order to reserve it. Most areas can support 2 members simultaneously working, however others (like welding and the CNCs) can only support 1 user at a time. Anyone caught using equipment that they do not have the appropriate clearances for risks having their membership revoked.

- 1) From the home page navigate to the membership tab and click "Equipment reservations".
- 2) Once on the reservation page choose a piece of equipment from the dropdown and use the calendar to select your desired date. Once selected a drop down menu with available times will appear. Select your desired time range and add to your cart. Repeat this step to add more reservations (Times will not be reserved until you proceed to checkout)
- 3) Once you have added all of your reservations proceed to checkout by clicking the shopping basket at the top right of the page. Reservations are free products and must be checked out before the reservation can be booked.
- 4) Once you complete checkout you will receive an email confirming your booking. You can always review and cancel any current and past bookings from the "My Account" page and navigate to "Bookings" NOTE: Bookings may only be cancelled the day BEFORE your reservation. Day of cancellations must be submitted by email to hello@protohaven.org. Please include your order number in your cancellation request.

Maintenance

Maintenance actions can only be made by the authorized maintenance crew.

All members are expected to report maintenance when it's required. A subset of members then perform maintenance. Anyone can see the present state of equipment by checking its status. Maintenance is prioritized based on high equipment usage.

Maintenance Requests Maintenance requests inform staff and techs of issues with equipment ranging from simple replacement parts to potential safety issues. Members are encouraged to use this system so that the Protohaven team can respond quickly to shop needs, reducing equipment downtime and keeping you working effectively longer. Maintenance Requests can be found here: <https://www.protohaven.org/tools/>

Maintenance Actions Maintenance actions can only be made by authorized maintenance crew which includes staff, techs, instructors, fellows, and authorized members. Members can view and follow maintenance actions in real time by joining the Protohaven Discord Server

Equipment Status

You can also view the current status of all equipment and areas by reviewing our Master Equipment List. This list catalogs all equipment and reports its most recent condition and last action taken on it. [View it here.](#)

Storage

Protohaven provides both overnight and monthly storage options to ensure you can continue working on your projects without the hassle of transporting your work to and from home. You must see the Shop Tech on duty in order to purchase storage.

Overnight storage

- **Project Carts** - Movable carts with bottom shelf, ideal for storing smaller projects and tools. *All belongings must remain inside the perimeter of the cart.*
- **Hub Tables** - Movable, large tables, ideal for medium to large glue-ups, drying, or curing. *All belongings must remain inside the perimeter of the table.*
- **Pallet space** - Workshop floor space, ideal for storing large builds or pieces of personal equipment. *Belongings must be on movable pallets or carts with wheels.*

Monthly Storage

- **Locker** - Small lockers for storing tools, small projects, and personal belongings. Can be locked (lock not included).
- **Board & Bar** - Great for longer lengths of wood or metal
- **Cage** - Perfect for those using the shop regularly. Plenty of room for projects, material and personal tools. Can be locked (lock not included).
- **Sheet** - Ideal for plywood, sheet metal, large acrylic, etc
- **Rack** - Shelving offering plenty of horizontal space for flexible storage. *All belongings must remain inside the area of the shelf.*
- **Pallet space** - Workshop floor space, ideal for storing large builds or pieces of personal equipment. *Belongings must be on movable pallets or carts with wheels.*

Receiving Mail and Freight

As a member you can have your mail and supply orders sent directly to Protohaven at no additional cost. Additionally, our loading docks can support freight pick-ups and drop-offs within regular shop hours. We just ask that you are available on your freight delivery day to properly store your shipment before the shop closes that day. Please be sure to check for mail regularly, as mail that has not been picked up for over one month may be returned to the sender. If there are any extenuating circumstances that will prevent you from picking up your mail in a timely manner, please let us know.

Guest Policy

Who

Protohaven members are welcome to bring guests during member hours. Members are responsible for ensuring that their guests abide by all shop, community and COVID-19 guidelines during their visit. They will also need to complete the following upon entering the building.

When

Guests are welcome during all member access hours. See the [shop hours](#) section for details.

How

Guests are NOT cleared Protohaven members and should not be assisting or independently operating equipment in any way. Guests may consult, view work in progress and socialize with their host. Guests must join as members, complete orientation, and receive clearances BEFORE working or assisting in the shop (this includes the use of tools provided by the member). **Any member who has a guest that is using tools and equipment at Protohaven without first becoming a member and receiving the proper clearances, will risk having their membership revoked.**

Emergency Policy

Fire

In the event of a small fire, extinguishers are present throughout the building:

- Kitchen/Hub
- Wood Shop
- Maintenance Room
- Blacksmithing
- Front Entrance

If you use a fire extinguisher for any reason, notify the appropriate Protohaven staff member or on duty tech.

In the event of a true fire emergency OR if the fire suppression system is triggered, evacuate the building immediately and THEN call 911 ONLY after you have safely removed yourself from danger. After emergency services have been contacted notify the appropriate Protohaven staff member or and fill out an incident report.

Medical/Injury

For minor injuries there are first aid kits in the kitchen located next to the shop doors, in the forge, and in the woodshop area next to the door leading to the studio. Please report any low supplies to a staff member. There are also two AED machines, with one being located in the kitchen, and the other being located in the woodshop next to the first aid kit.

In the event of a medical emergency time is of the essence. If you can safely and knowledgeably do so, **seek consent** to stabilize the injured person(s) and CLEARLY IDENTIFY an individual to call 911. If you are unable to stabilize, safely attempt to locate someone who can after calling 911. After the immediate threat has passed and emergency services have been contacted notify the appropriate Protohaven staff member for further instruction.

In the event of an injury, an incident report will need to be filed with the Shop Tech on duty.

Mental Health/Crisis De Escalation

In the event of a mental health crisis it is important that those affected feel safe and that they have resources at their disposal. Our neighbors at Resolve Crisis Services (333 N. Braddock Ave.) have around the clock support for those in need and we encourage you to direct those in crisis to those resources.

Resolve 24/7 Hotline: 1-888-7-YOU-CAN (796-8226)

Walk-ins welcome without appointment

Communications

Discord

Protohaven Members enjoy access to our Discord server to connect, share, and learn alongside fellow members. It is designed to be a peer-to-peer resource for all members.

As part of our community, here are some of the channels you have access to:

- #general to connect and generally chit-chat with one another
- #free to share materials that are looking for a good home
- #buy-and-sell to, well, buy and sell
- #help-wanted to seek out advice or coordinate project help from other members
- #show-and-tell to see and share all the cool things you're working on both inside and outside the shop!

To join, please use the link below and sign-up with your Protohaven Email:

<https://www.protohaven.org/discord/>

Volunteer Opportunities

Shop Tech Our Shop Techs represent our primary maintenance and member support corps. This team is responsible for fulfilling maintenance requests, assisting and greeting members, and opening and closing the shop.

How to Apply More information can be found at <https://www.protohaven.org/opportunities/>.

Teaching Fellowship

Over the course of this 6 month program, Teaching Fellows collaboratively develop core Protohaven Classes. As a team, they play a key role in creating a rich, supportive learning environment that brings value to students of all skill levels.

How to Apply More information can be found at: <https://www.protohaven.org/opportunities/>.

Instructor Open Calls Instructors are contracted to use their design and fabrication experience to inspire, mentor, and problem solve alongside students who are discovering their skills and gaining a deeper understanding of shop equipment.

How to Apply Open calls will be posted as needed here: <https://www.protohaven.org/opportunities/>

Shop Information

Contact Information

Street Address

214 N. Trenton Ave
Wilkinsburg, PA
15221

Note: 214 S. Trenton is on the other side of Penn Ave and is a residential address and is sometimes where packages are delivered by accident. **Please note on your shipment that deliveries should be sent to a commercial/warehouse address.**

Phone Number

The Protohaven main desk can be reached by phone at: 412-731-4400

Email Address

Send email to Protohaven at: hello@protohaven.org

Shop Hours

For the safety and security of our community and members Protohaven Member Hours are only open to students (during scheduled class times), members and guests of members. Office hours are open to the public for tours while staff are available.

Office Hours

Monday - Friday: 10:00am - 4:00pm

Member Hours

Monday - Thursday: 10am - 10pm

Friday - Sunday: 10am - 10pm

Scheduled Tours

7 Days/Week

Saturday-Thursday 1pm and 6pm

Friday 1pm and 6:30pm

New Member Orientations

New member onboarding is a scheduled, one-on-one meeting to help you get settled in the shop.

Holidays (Shop Closed)

- New Year's Eve
- New Year's Day
- Martin Luther King Day
- Easter

- Memorial Day
- Juneteenth
- Independence Day
- Labor Day
- Thanksgiving/National Day of Mourning
- Christmas Eve
- Christmas

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Appendices

Code of Conduct

Shop Usage Agreement

Floorplan

Equipment List

The following equipment list is more or less complete as of the date of publication of this member's guide. For an updated list with status information, please see the following link:

<https://www.protohaven.org/equipment/>

Shop Area	Tool Name	Make and Model
Shop Area	Tool Name	Make and Model
3D Printing	CR10-MAX (Kaytoo)	CR10-MAX 3D Filament Printer
3D Printing	Prusa MK2s (Chopper)	Prusa i3 MK2 3D Filament Printer
3D Printing	Prusa MK3s (Artoo)	Prusa i3 MK3s 3D Filament Printer
3D Printing	Prusa MK3s (Threepio)	Prusa i3 MK3s 3D Filament Printer
Blacksmithing	Belt Grinder	House Made Revolution 2 x 72
Blacksmithing	Forge 1	Mr Volcano Hero - Single Burner Propane Forge
Blacksmithing	Forge 2	Mr Volcano Hero - Single Burner Propane Forge
Blacksmithing	Forge 3	Mr Volcano Hero - Single Burner Propane Forge
CNC Plasma	CNC Plasma Cutter	CNC Router Parts PRO CNC Plasma Kit
CNC Router	CNC Router	CNC Router Parts PRO60120
Electronics	Bench Power Supply	GW Insteek adjustable, 32V, 5A
Electronics	Function Generator	Rigol DG1022A
Electronics	Hot Air Rework Station	X-Tronic 4000 Series
Electronics	Oscilloscope	Rigol DS1204B
Electronics	Reflow Oven	Tech 169 T962
Electronics	Soldering Station	Weller temperature controlled
General Metal Tools	Metal Chop Saw	Evolution EVOSaw 380
General Metal Tools	Metal Drill Press	Craftsman Drill Press 137.229200
General Metal Tools	Vertical Metal Bandsaw	Jet VBS-1610
General Wood Tools	Downdraft Table	Grizzly H2936 Vacuum Sanding Table

Shop Area	Tool Name	Make and Model
General Wood Tools	Miter Saw	Jet 12" Sliding Dual Bevel Compound Miter Saw
General Wood Tools	Panel Saw	Powermatic
General Wood Tools	Resaw Bandsaw	Jet JWBS-18QT-3
General Wood Tools	Scroll Saw	
General Wood Tools	Spindle Sander	Shop Fox W1846
General Wood Tools	Table Saw 1	SawStop ICS53230 5HP
General Wood Tools	Table Saw 2	SawStop PCS31230 3HP
General Wood Tools	Woodshop Drill Press	Jet Step Pulley Drill Press JDP-20MF
General Wood Tools	Woodworking Bandsaw	JET 18" Woodworking Bandsaw JWBS14
Graphics	Cap Press	Hotronix Maxx Cap Press
Graphics	Dye Sublimation Printer	Sawgrass SG1000
Graphics	Heat Press	Hotronix Swinger Heat Press
Graphics	Large Format Printer	Canon imagePROGRAF iPF650
Graphics	Vinyl Cutter	US Cutter Laserpoint II
Grinding & Sandblasting	Aluminium Bench Grinder	Jet JBG-10A
Grinding & Sandblasting	Belt and Disc Sander	Jet JS-6DC
Grinding & Sandblasting	Disc Grinder	Laguna 20" Disc Grinder Sander
Grinding & Sandblasting	Sandblaster	SkatblastUSA 1536 Champion Abrasive Blasting Cabinet
Grinding & Sandblasting	Steel Bench Grinder	Jet JBG-10A
Hand Tools	16-Gauge Finish Nailer	Porter Cable FN250B
Hand Tools	18-Gauge Narrow Crown Pneumatic Stapler	Porter Cable NS 100A
Hand Tools	Rotary Tool	Eurotool Flexshaft HDP-150
Industrial Metal Tools	Horizontal Bandsaw	Jet J-7040M, 10" x 16" Horizontal Mitering Bandsaw
Industrial Metal Tools	Ironworker	Edwards 55 ton hydraulic ironworker
Jewelry	Jewelry Hand Shearer	HS-8 Hand Shearer for Metal
Jewelry	Pickle Pot	
Jewelry	Polishing Machine	
Jewelry	Soldering Torch	Natural Gas/ Oxygen
Jewelry	Tumbler	Huajie KD-100
Jewelry	Ultrasonic Cleaner	Chicago Electric Ultrasonic Cleaner 95563
Lasers	Laser 1	Rabbit Lasers QX-80-1290
Lasers	Laser 2	Rabbit Lasers QX-80-1290
Lasers	Laser 3	Trotec Speedy 300 C80
Machining	Clausing Mill	Clausing Kondia CNC Knee Mill
Machining	Manual Metal Lathe	Jet GH-1440W-3, Geared Head Lathe
Machining	Manual Mill	Jet JTM-4VS Turret Mill

Shop Area	Tool Name	Make and Model
Machining	Micro Mill	Othermill
Machining	Surface Grinder	Abrasive Machine Tool Co 3B
Machining	Tormach	Tormach PCNC 770
Millwork & Joinery	Drum Sander	Jet 16-32 Plus
Millwork & Joinery	Forstner Bits	Ryobi Small and Large Forstner Bit Sets
Millwork & Joinery	Jointer	Laguna MJOIN 8020-0130
Millwork & Joinery	Planer	Laguna 16" 4-Post Planer MPLAN1510-0120
Millwork & Joinery	Router Table	Woodpeckers PRL-v2-350
Plastics	Injection Molder	Morgan Press G-100T
Plastics	Precious Plastics Shredder	
Plastics	Strip Heater	Formec FLB500
Plastics	Vacuum Former	Formech 686
Powder Coating	Large Powder Coating Oven	Powder-X
Powder Coating	Powder Coating Booth	SpectraCoat ES-01
Powder Coating	Small Powder Coating Oven	Jegs Bench Top Powder Coating Oven
Sheet Metals	Arbor Press	Jet AP3-M
Sheet Metals	Electric Slip Roll	ESR 1300x1.5
Sheet Metals	Hand Brake	Jet BP-1646H
Sheet Metals	Hand Notcher	Jet HN 16-T
Sheet Metals	Metal Shrinker/Stretcher	Central Machinery 68897
Sheet Metals	Shear	Birmingham/CP Tools H-5214
Sheet Metals	Shop Press	Central Machinery 20-Ton Shop Press
Sheet Metals	Turret Punch	Tin Knocker Hand Turret Punch TK-12
Textiles	CNC Embroidery Machine	Brother PR650e Entrepreneur
Textiles	Consumer Sewing Machine	Singer 4423
Textiles	Industrial Serger	Juki MO-6714S
Textiles	Industrial Straight Stitch	Juki DDL 8700
Textiles	Industrial Walking Foot	Juki DNU-1541S
Welding	Manual Plasma Cutter	Lincoln Electric Tomahawk 625
Welding	MIG Welder	Lincoln Electric Power MIG 256
Welding	Oxy-Acetylene Torch	Underwriters Laboratory Welding Torch 8F41
Welding	Spot Welder	Miller Electric LMSW-52
Welding	TIG Welder	Lincoln Electric Precision TIG 225
Wood Lathe	Wood Lathe	Powermatic 4224B