



BILL STARN - CEO & Partner

GREG WASKO

Partner & President, Mecal by Starn

WILLOW PETERMAN

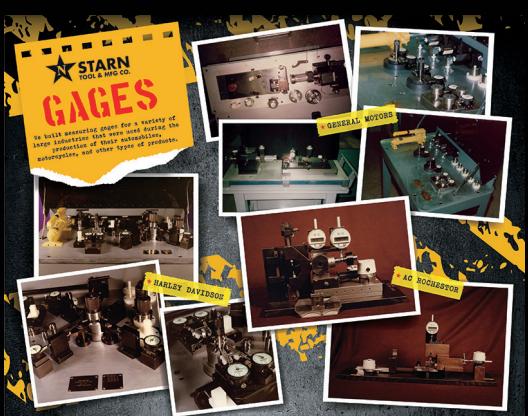
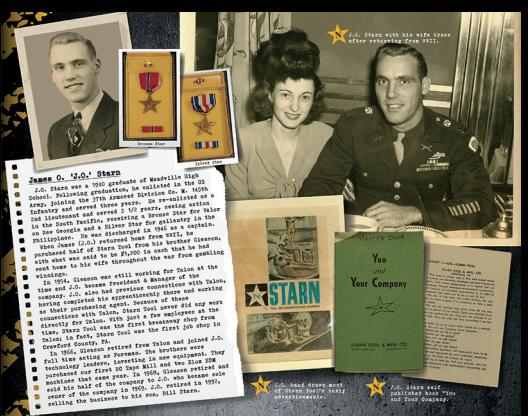
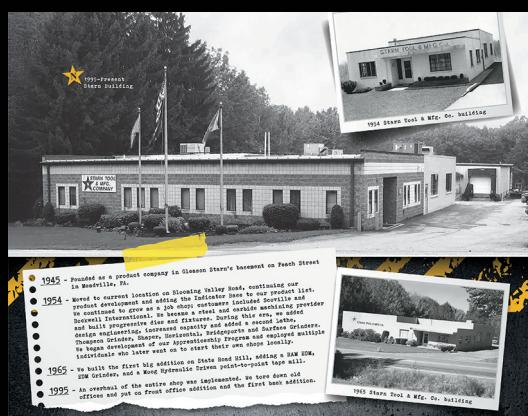
Partner & President, Starn Tool & Mfg. Co.

20^N26

Calendar

STARN TOOL & MFG CO.

1945



N
STARN
TOOL & MFG CO.
1945



STARN TOOL & MFG CO.

EST. 1945

Starn Tool &
Manufacturing
Company

EST. 1945



Our People make the Difference!



TOOL & DIE CAPITAL

Meadville earned the nickname "Tool and Die Capital of the World" due to its concentrated cluster of precision machining, mold-making, and manufacturing companies-many of which grew from Talon's legacy.

ALLEGHENY COLLEGE

One of the country's oldest colleges (founded 1815), known for its strong liberal arts programs and environmental science leadership.

FRENCH CREEK

A nationally recognized waterway celebrated for its exceptional biodiversity-often called one of the most ecologically diverse streams in the northeastern U.S.

HISTORIC DOWNTOWN & CULTURAL HERITAGE

Charming Victorian-era architecture, the Meadville Market House (built in 1870), and vibrant public art such as the "Read Between the Signs" project.

MANUFACTURING & PLASTICS INDUSTRY

A strong modern presence in precision manufacturing, plastics, and advanced machining, continuing its industrial tradition.

MEADVILLE • PA

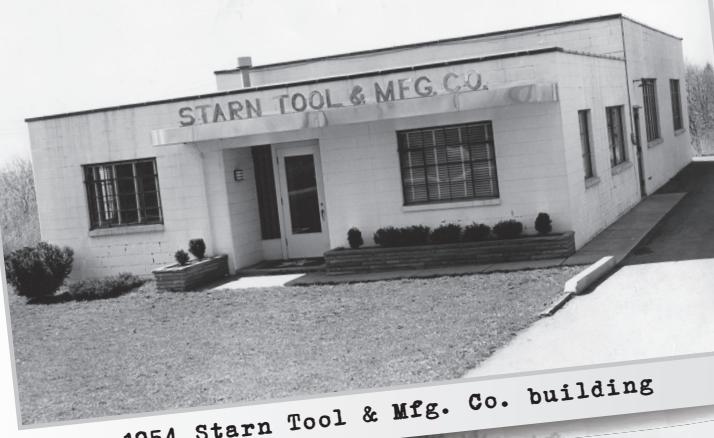
BIRTHPLACE OF THE MODERN ZIPPER INDUSTRY

Home of Talon, Inc., the company that pioneered the mass-produced zipper in the early 1900s, making Meadville a global hub for zipper innovation.





1995-Present
Starn Building



1954 Starn Tool & Mfg. Co. building

- 1945 - Founded as a product company in Gleason Starn's basement on Peach Street in Meadville, PA.
- 1954 - Moved to current location on Blooming Valley Road, continuing our product development and adding the Indicator Base to our product list. We continued to grow as a job shop; customers included Scoville and Rockwell International. We became a steel and carbide machining provider and built progressive dies and fixtures. During this era, we added design engineering, increased capacity and added a second Lathe, Thompson Grinder, Shaper, Horizontal, Bridgeports and Surface Grinders. We began development of our Apprenticeship Program and employed multiple individuals who later went on to start their own shops locally.
- 1965 - We built the first big addition on State Road Hill, adding a RAM EDM, EDM Grinder, and a Moog Hydraulic Driven point-to-point tape mill.
- 1995 - An overhaul of the entire shop was implemented. We tore down old offices and put on front office addition and the first back addition.



1965 Starn Tool & Mfg. Co. building

01
2026

JANUARY

Our People make the Difference!



SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
				NEW YEAR'S DAY		
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

2025 DECEMBER
S M T W T F S
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

FEBRUARY
S M T W T F S
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28



STARN
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1945

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starn.com



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tzolnai@starn.com

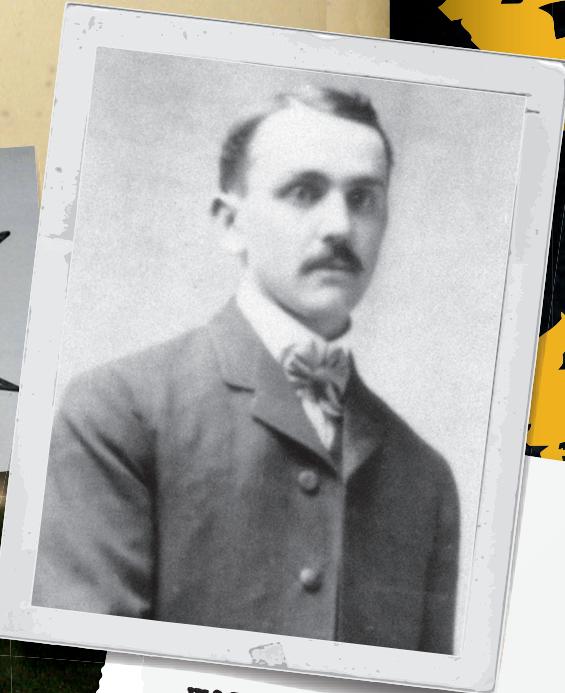


VISIT OUR SHOP
20524 Blooming Valley Road
Meadville, PA 16335

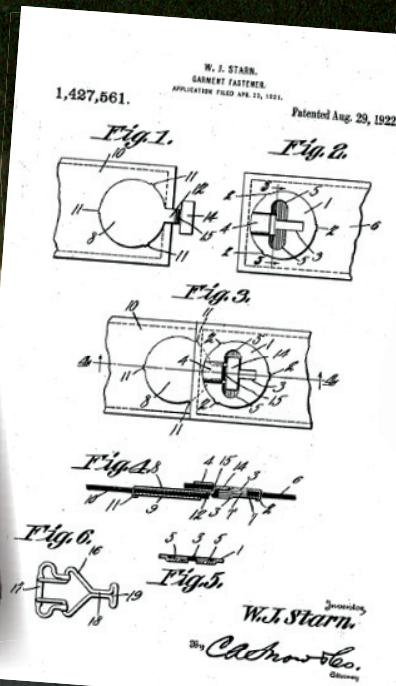


**Willoughby Jacob
Starn with
daughter-in-law
Grace Starn**

N Willoughby
Starn's pocket
journal. This
page represents
the "Expenses to
start machine
shop".



N Example of one of Willoughby's inventions, the 'Garment Fastner', circa 1921.



William Jacob
Starn 'Willoughby'
Starn

Starn Tool was founded nearly 80 years ago by Gleason Starn, in the year 1945. However the story really starts long before that....

William Jacob Starn 'Willoughby' was a toolmaker/inventor and patriarch of 4 sons, Gleason; co-founder of Starn Tool & Mfg. Co., Clarence; a tool maker and Plant Manager of American Brake Shoe, a tire mold company in Athens, Ohio, Fred; a long-time Tool Maker who retired from Loren Cook company in Berea, Ohio, James/J.O.; co-founder of Starnol & Mfg. Co. Back in the early 1900's Willoughby developed the "Star" with the in the middle as his personal logo. This remains logo to this day.

02
2026

FEBRUARY

Our People make the Difference!

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14

JANUARY						
S	M	T	W	T	F	S
				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

MARCH						
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



**STARN
TOOL & MFG CO.**

— 1945 —



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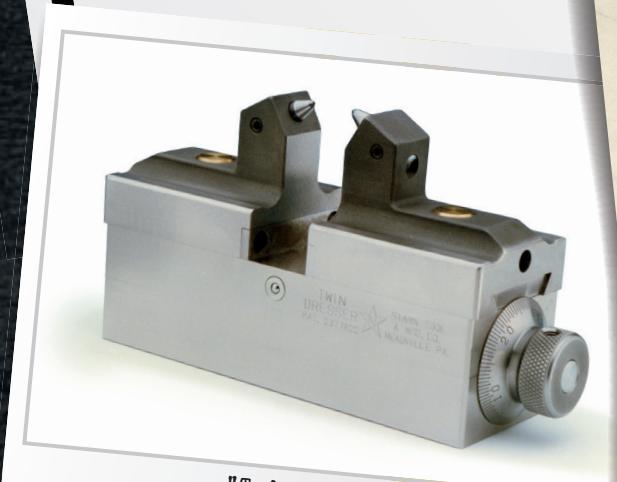
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Meadville, PA 16335

Gleason Starn

Gleason was the oldest son of Willoughby Starn and was a tool room supervisor for the well-known Talon Zipper for many years. He founded Starn Tool in 1945 as a product company in his garage on Peach Street, down the hill from our current location (State Rd. Hill/Rt. 77 in Meadville, PA, USA). Equipment included Brown & Sharpe Universal OD/ID grinder and a Southben Lathe (we still have this machine).

Products included:

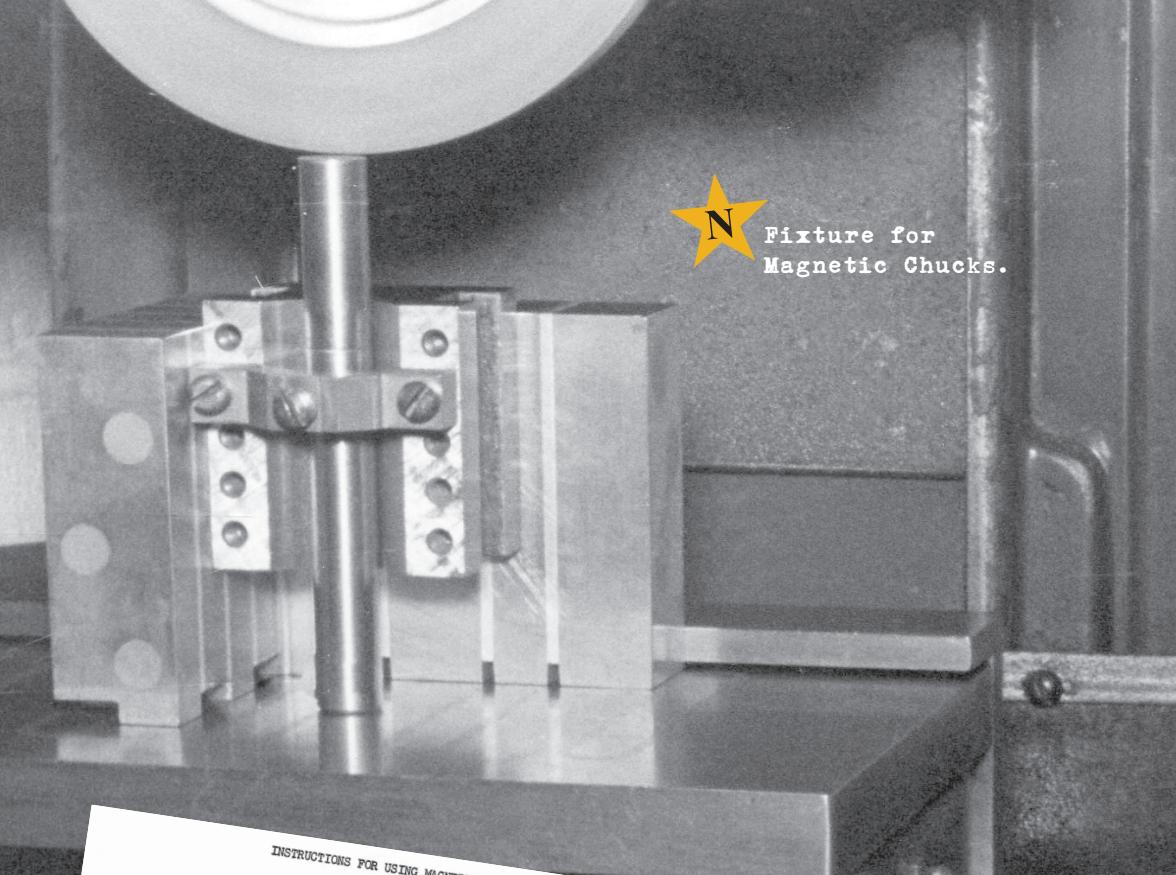
- ★ Twin Dresser
- ★ Magnetic Angle Block
- ★ Diamond Lapping Tool Set
- ★ Swing Table



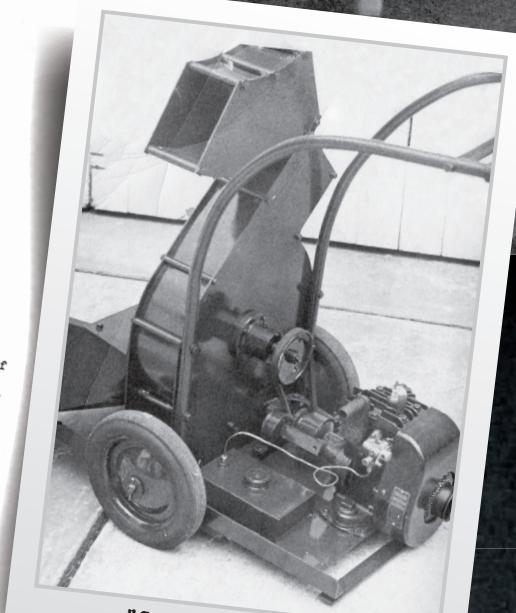
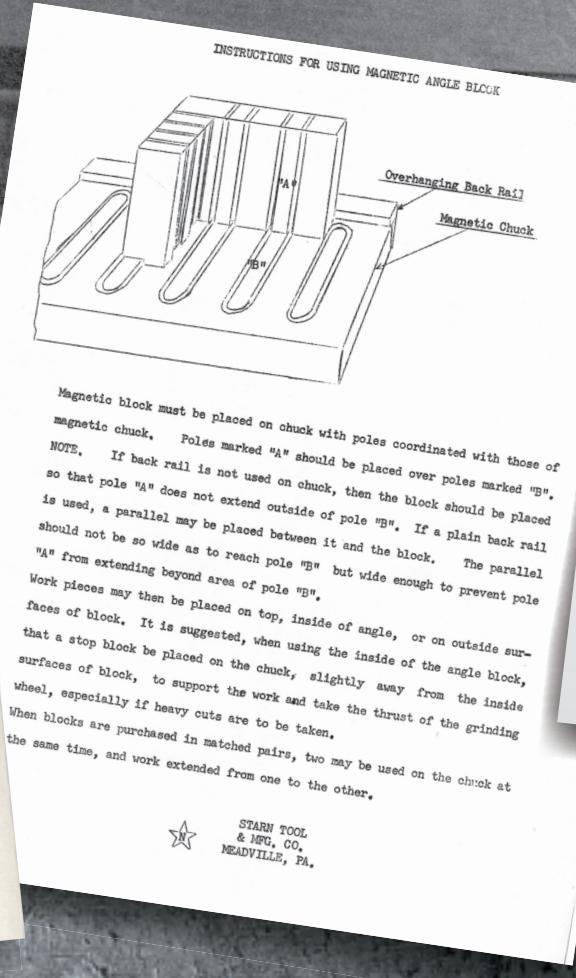
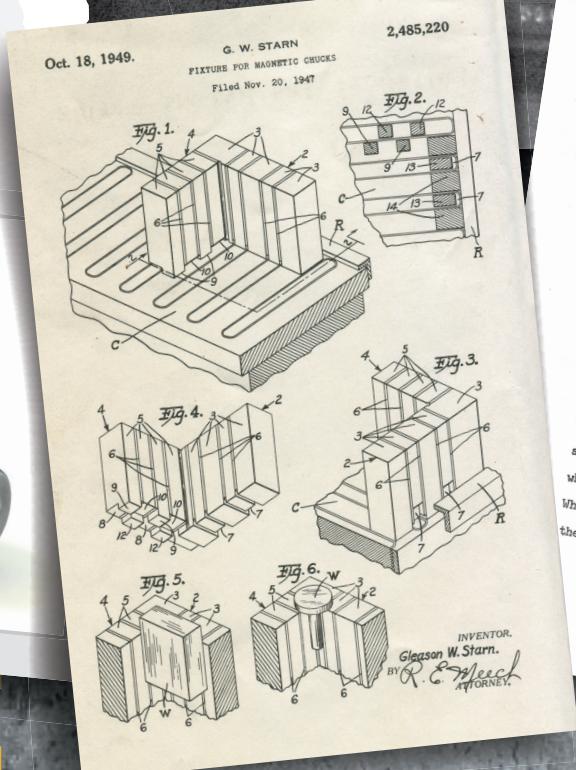
"Twin - Dresser"



Fixture for Magnetic Chucks.



Patent for the Fixture for Magnetic Chucks.



The "Cabbage Cutter" was used to create coleslaw, an invention by Gleason Starn.

03
2026

MARCH

Our People make the Difference!



SUN	MON	TUE	WED	THU	FRI	SAT
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DAYLIGHT SAVINGS TIME BEGINS						
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FEBRUARY	15	16	17	18	19	20
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APRIL	22	23	24	25	26	27
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19 20 21 22 23 24 25						
26 27 28 29 30						

29	30	31				
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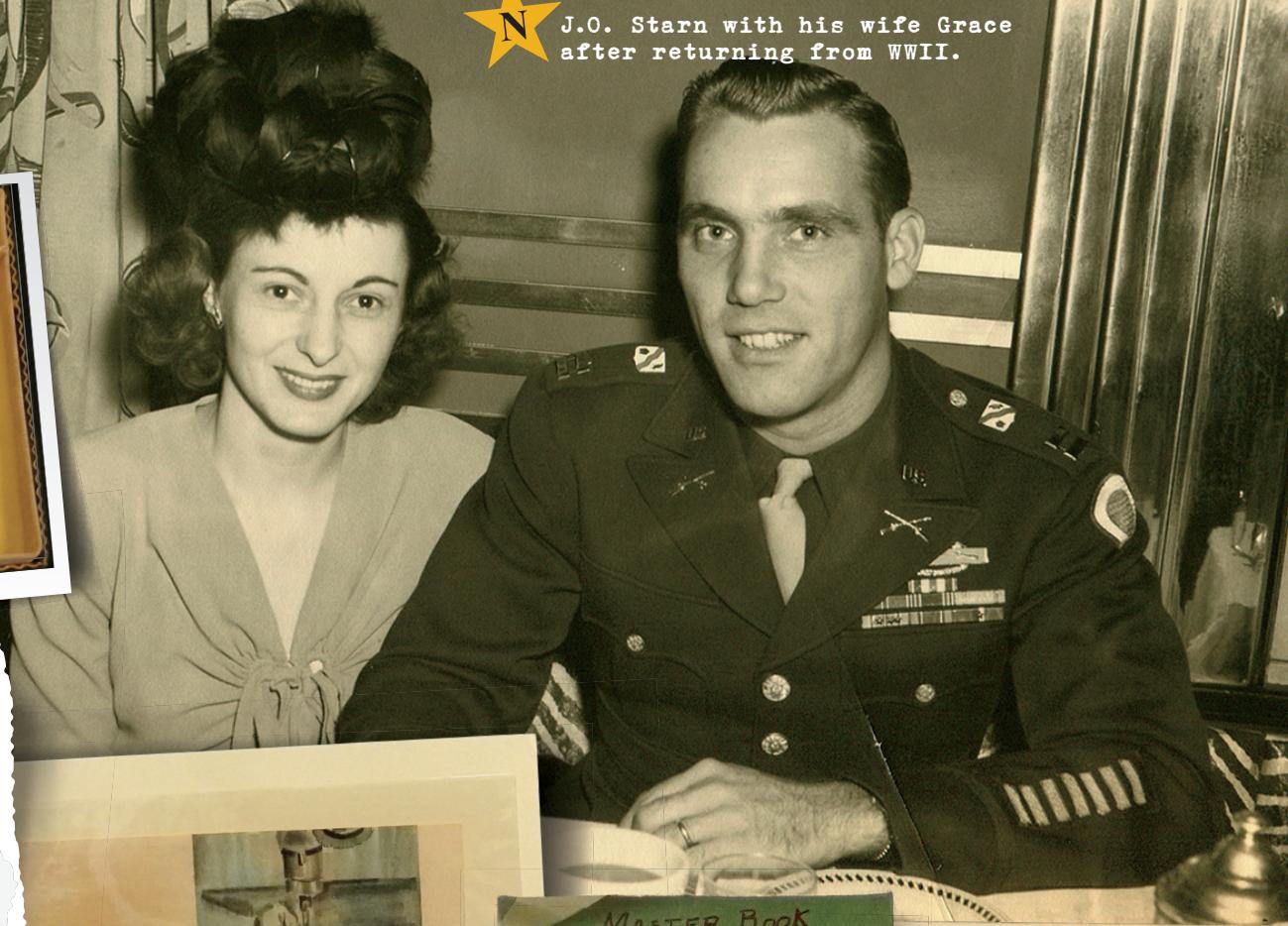
J.O. Starn with his wife Grace
after returning from WWII.



Bronze Star



Silver Star



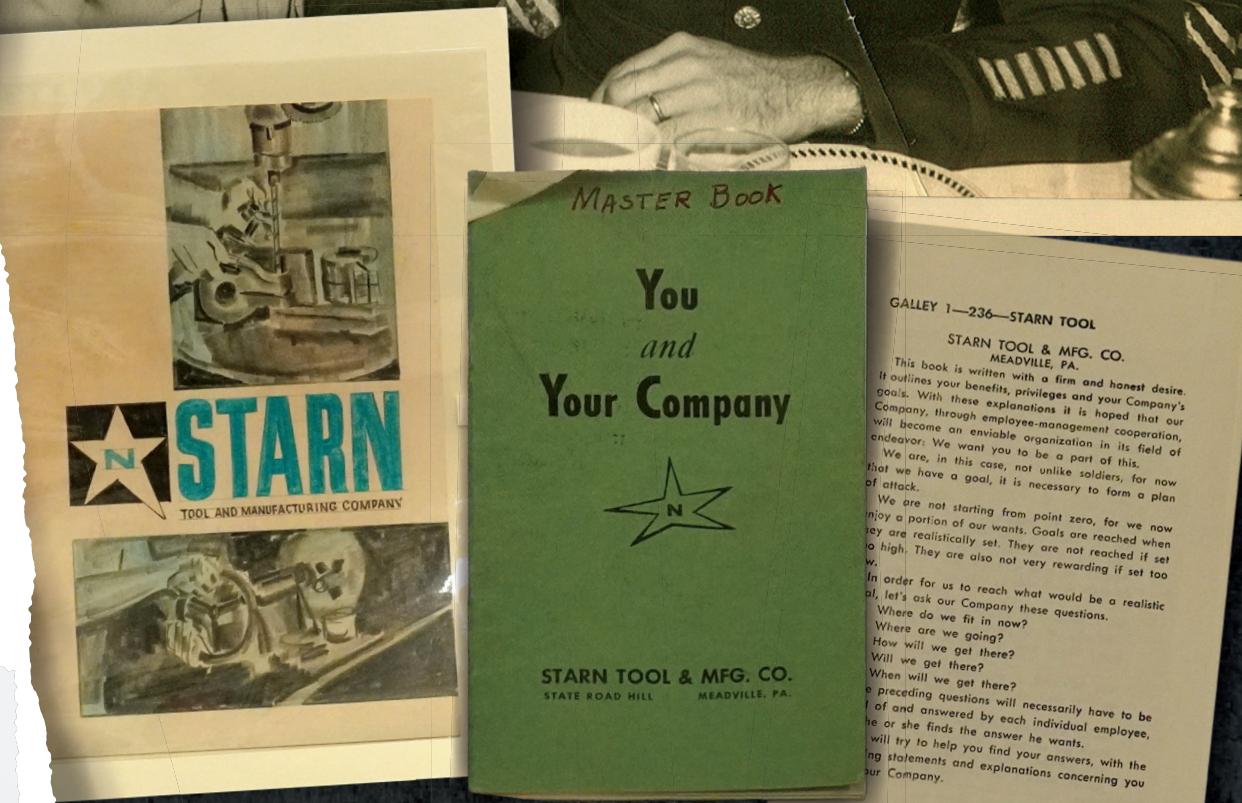
James O. 'J.O.' Starn

J.O. Starn was a 1940 graduate of Meadville High School. Following graduation, he enlisted in the US Army, joining the 37th Armored Division Co. M. 145th Infantry and served three years. He re-enlisted as a 2nd lieutenant and served 2 1/2 years, seeing action in the South Pacific, receiving a Bronze Star for Valor on New Georgia and a Silver Star for gallantry in the Philippines. He was discharged in 1946 as a captain.

When James (J.O.) returned home from WWII, he purchased half of Starn Tool from his brother Gleason, with what was said to be \$1,200 in cash that he had sent home to his wife throughout the war from gambling winnings.

In 1954, Gleason was still working for Talon at the time and J.O. became President & Manager of the company. J.O. also had previous connections with Talon, having completed his apprenticeship there and working as their purchasing agent. Because of these connections with Talon, Starn Tool never did any work directly for Talon. With just a few employees at the time, Starn Tool was the first breakaway shop from Talon; in fact, Starn Tool was the first job shop in Crawford County, PA.

In 1966, Gleason retired from Talon and joined J.O. full time acting as Foreman. The brothers were technology leaders, investing in new equipment. They purchased our first NC Tape Mill and two Elox EDM machines that same year. In 1968, Gleason retired and sold his half of the company to J.O. who became sole owner of the company in 1969. J.O. retired in 1992, selling the business to his son, Bill Starn.



J.O. hand drawn most of Starn Tool's early advertisements.



J.O. Starn self published book "You and Your Company".

04
2026

APRIL

Our People make the Difference!



SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
						GOOD FRIDAY
5	6	7	8	9	10	11
EASTER SUNDAY						
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19	20	21	22	23	24	25
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MARCH

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MAY

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24	25	26	27	28	29	30
31						



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EARLY MARKETING materials

STARN CRAFTSMEN Give You

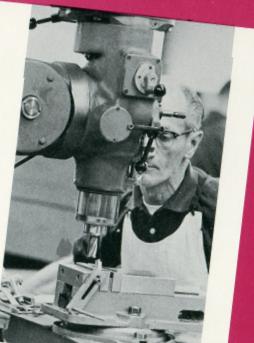
QUALITY, PRICE AND SERVICE

Quality, price and service are above all with skilled and, with the help of many special tools we have produced, they are capable of doing the unusual work.

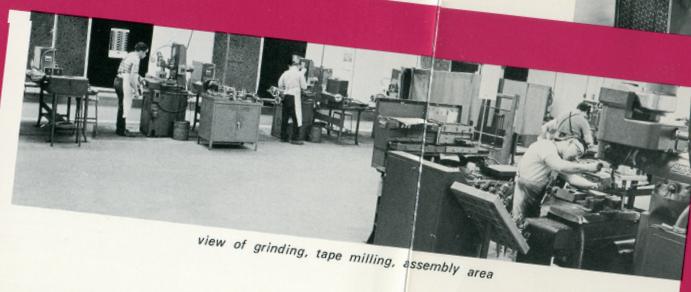
Starn Craftsmen have been sending their work for 20 years to a large section of the United States.

Starn Craftsmen specialize in progressive stamping dies (steels and carbide), gages, special machining fixtures, powder metal dies and machining facilities, including E.D.M., tape, optical grinding, etc., Starn Craftsmen are ready and able to satisfy your most exacting requirements.

Try Starn Craftsmen on your next order. Quality, price and service are most important to you. In soliciting your inquiries, we pledge, sincerely, our best efforts to make you happy that you tried Starn Craftsmen. Thank you.



milling operation allowing proper amount of grinding stock



CHECK CRAFTSMANSHIP --CHECK STARN

At Starn Tool and Manufacturing Company, craftsmanship is our product. We think you should have the best quality, the best price and the best service. You can get the best only from the best craftsmen. Our impressive list of customers shows that we like to work for the best, too.

SWING TABLE

FROM THE COMPANY WITH THE TIME SAVERS
SET UP THOSE SMALL TURN TABLE JOBS IN MUCH LESS TIME. GAIN MORE ACCURACY. SETS UP FASTER THAN A HORIZONTAL SPINDLE.



Attractive Durable Case is Included

The swing table, with beam distances from back rails to center allows you to block your work into location without time consuming indexing.

Protractor is graduated 180° both directions from 0°.

Stop pin is removable so you can swing outside of stops without changing those repeat jobs.

PRICE:

WRITE FOR INFORMATION ON OTHER PRODUCTS
DISTRIBUTED IN YOUR AREA BY ...

MANUFACTURED BY
Starn Tool & Manufacturing Company
STATE ROAD HILL
MEADVILLE, PA.
ZIP 16335

time is money! save both, use...



* The Starn "TWIN" DRESSER

The Starn "Twin" Dresser is designed to dress thin wheels for slot or cut-off work. This permits the selection of grade, grains, bonds, etc., from wheels in stock. The "Twin" Dresser is a time and money saver in preparing thin wheels for minimum undercuts in corners. Thinner cut-off wheels permit cutting many small parts from hardened steel, thereby saving hardening delay. Without roughing out prior to hardening, many slots may be ground after hardening, eliminating distortion.

The "Twin" Dresser is hardened and ground, with provisions to compensate wear.

Investigate the Starn "Twin" Dresser Now!

THE STARN "TWIN" DRESSER IS MANUFACTURED BY STARN TOOL & MFG. CO., MEADVILLE, PA.

DISTRIBUTED IN YOUR AREA BY ...

The "TWIN" DRESSER...

Dresses a wheel thinner than any other method, in a fraction of the time required to dress one side at a time.

Prevents wheel breakage because of even diametric pressure on both sides. The wheel is dressed with uniform thickness.

Permits thinning only that portion of the wheel needed for each particular job. The wheel then retains the stiffness essential to precision slot grinding.

Has a completely enclosed screw which is connected to a direct reading dial, indicating wheel thickness as well as movement.

When using a separate optical comparator, work does not have to be removed from vise to be checked.

The handle is removable and not in the way when grinding. This is a real advantage when grinding with optics.

PRICE:

WRITE FOR INFORMATION ON OTHER PRODUCTS
DISTRIBUTED IN YOUR AREA BY ...

MANUFACTURED BY
Starn Tool & Manufacturing Company
STATE ROAD HILL
MEADVILLE, PA.
ZIP 16335

A NEW SINE VISE

FROM THE COMPANY WITH THE TIME SAVERS

ASK THE MAN WHO HAS USED ONE

Attractive Durable Case is Included

A new 3" sine vise that will eliminate the extra error caused by additional surfaces when using other methods.

The handle is removable and not in the way when grinding. This is a real advantage when grinding with optics.

PRICE:

WRITE FOR INFORMATION ON OTHER PRODUCTS
DISTRIBUTED IN YOUR AREA BY ...

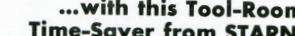
MANUFACTURED BY
Starn Tool & Manufacturing Company
STATE ROAD HILL
MEADVILLE, PA.
ZIP 16335

Save time indicating! Save time inspecting!

...with this Tool-Room Time-Saver from STARN!

PRICE

Another fine product by the craftsmen at Starn Tool and Mfg. Co., Meadville, Pa.



Rear of base features a square-up rail. Now you can check squareness quickly and accurately on those larger pieces.

Distributed in your area by:

the STARN
Universal Indicator Holder

This holder is the answer to a tool-maker's dream. With this holder a tenth indicator really works. You don't have to check and recheck many times.

Rigid construction holds the indicator firmly without deflection.

The Starn Universal Indicator Holder can be positioned with one hand, freeing the other to hold the work. A fine adjustment screw puts you on zero the first time...every time.

MAY

SUN	MON	TUE	WED	THU	FRI	SAT
3	4	5	6	7	8	9
10	11	12	13	14	15	16
MOTHER'S DAY						
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						
MEMORIAL DAY						

APRIL

S	M	T	W	T	F	S
1	2	3	4			
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JUNE

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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				



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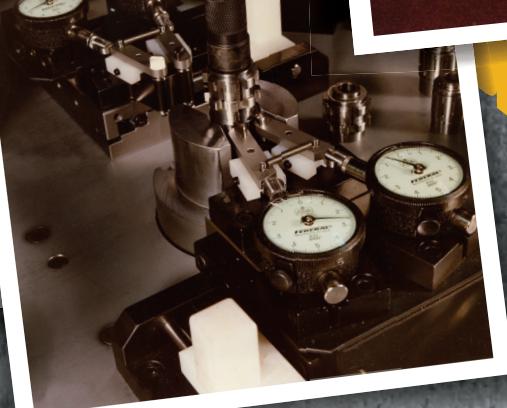


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STARN TOOL & MFG CO. GAGES

We built measuring gages for a variety of large industries that were used during the production of their automobiles, motorcycles, and other types of products.



06
2026

JUNE

Our People make the Difference!



SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20

★

STARN TOOL &
MFG. CO. DAY
IN CRAWFORD
COUNTY

MAY
S M T W T F S
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

JULY
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5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31

FLAG DAY						

FAHTER'S DAY 1st DAY OF SUMMER						

28	29	30				



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1988 - J.O. & Bill Starn with employees

Starn Tool & Mfg. receives:
GM MARK OF EXCELLENCE AWARD

J.O. and Bill Starn with GM Mark of Excellence Flags.

PACKARD ELECTRIC Direct Connection

1988: Competition, teamwork growth made headlines during past year

Volume 8, Number 1 Warren, Ohio January 5, 1989

Targets for Excellence

Packard supplier earns GM award

Packard boosts local economy in 1988

Newsbrief

In 1988, Starn Tool & Manufacturing, which produces precision die and mold components, was the FIRST of General Motors' supplier of indirect material, to earn a Mark of Excellence Award as part of GM's 'Targets for Excellence' supplier rating program. Starn was the only recipient of all FIVE targets: QUALITY, MANAGEMENT, COST, TECHNOLOGY, and DELIVERY.

"Targets for Excellence is the most comprehensive process now being utilized to rate suppliers in any industry," noted Merrill Almquist, executive director of purchasing for GM.

07
2026

JULY

Our People make the Difference!

SUN	MON	TUE	WED	THU	FRI	SAT
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JUNE
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14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30

AUGUST
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2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28
30 31



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**JOB SHOP
MANAGER™**
STARN TECHNICAL SERVICES

1986 Began development of Job Shop Manager software and in 1989 the software was implemented. Starn developed its own personal computer software to automate the process of tracking costs for all portions of a job. It's taken the place of a flat-rate system for costing, estimating or quoting on a job. The program is more accurate than a flat-rate system, according to Bill Starn, company CEO. That is because it incorporates not only the costs directly related to that particular job, but also takes into account the over-all costs of running a shop.

In 2024, Starn Technical Services launched updated JOB SHOP MANAGER 3.0 software



A custom software development and related information technology services to industrial customers ranging from local tool & die companies to Fortune 500 Corporations.

N November 1998 issue of Modern Machine Shop. "The ABC's of Activities Based Costing" is the article about pricing jobs for customers.



**JOB SHOP
MANAGER™**
STARN TECHNICAL SERVICES

CELEBRATING 30 YEARS
1994 - 2024

We are proud to be providing AFFORDABLE software to the Tooling and Machining Industry throughout the Tri-State region and beyond.

**ANNOUNCING
Job Shop Manager 3.0!
COMING SOON**

to a shop near you!

We are launching a new multitasking platform with key features such as:

- Complete shop Activity Based Costing system
- Complete part and workstation quoting
- Scheduling by department and workstation capacity
- Accountability of performance
- Time and labor records by customer, job, machine, part and person related functions
- Complete work in process reporting with labor and material backlog
- Backlog reporting by department, workstation and customer
- Inventory management and control
- Full or partial shipping and logistics with all needed documents of packing, invoices, and email capabilities
- Sales analysis including customer, job with detail of labor, material and overhead

Job Shop Software for a Job Shop Company...with a history of success!
FOR MORE INFORMATION OR TO SCHEDULE A FREE DEMO CONTACT:
Bill Starn at 814.724.1057 Ext 3 or wstarn@starntech.com



09
2026

SEPTEMBER

Our People make the Difference!

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
	LABOR DAY					
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			
		1ST DAY OF FALL				

AUGUST
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2 3 4 5 6 7 8
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30 31

OCTOBER
S M T W T F S
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11 12 13 14 15 16 17
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25 26 27 28 29 30 31



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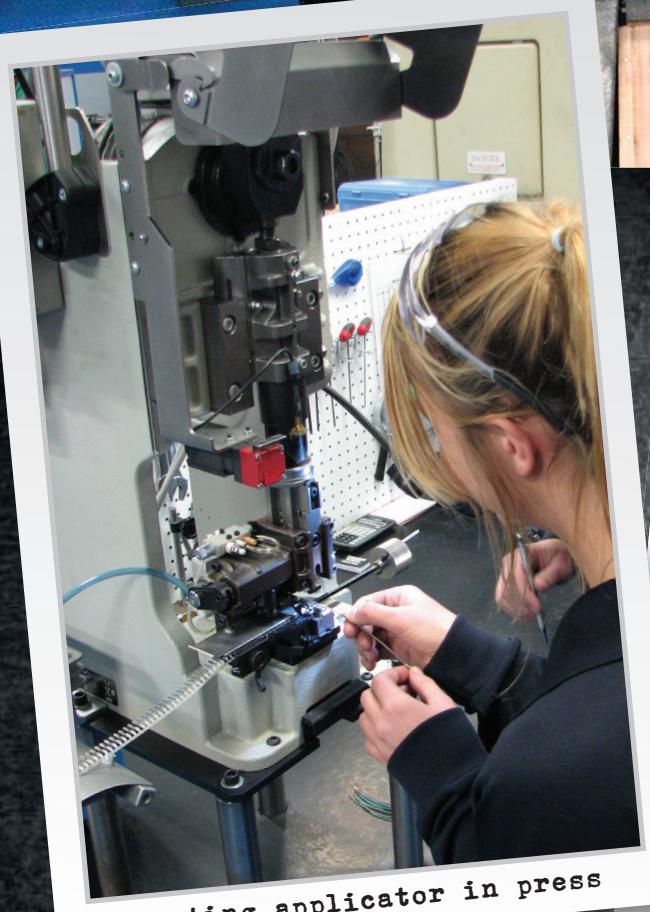
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★ Main Mecal by Starn facility

75 STARN
TOOL & MFG CO.



Testing applicator in press



EDM Machine cutting crimping plates



EDM Machines at downtown facility

Mecal
BY STARN
ESTABLISHED:
2008

The partnership of Mecal and Starn Tool, creating Mecal by Starn, provides world-class applicators and spare tooling for the wire harness industry.

Mecal (Italy) was established in 1976 with the aim of supplying the wire harness industry with the best crimping equipment available.

Mecal by Starn is a U.S.A. company, with a presence in almost every industry. The company specializes in wire harness crimping solutions, providing products that enable higher levels of system reliability, improved efficiency and long-term savings. Mecal by Starn serves customers in consumer electronics, automotive, energy and industrial, aerospace and defense, telecommunications, healthcare, appliance and transportation markets.

10
2026

OCTOBER

Our People make the Difference!



SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
	COLUMBUS DAY					
18	19	20	21	22	23	24
25	26	27	28	29	30	31
						HALLOWEEN



STARN
TOOL & MFG CO.
1945

Innovation Built on Tradition



CALL OUR EXPERTS
814.724.1057



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starn.com

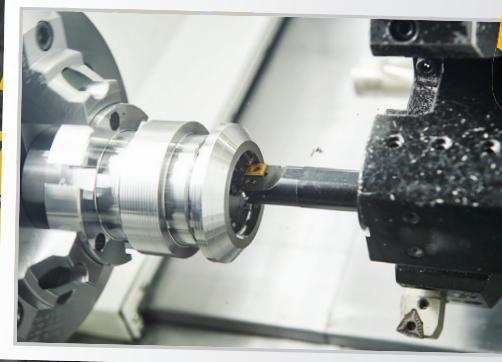


EMAIL ANYTIME
cdawson@starn.com
tzolnai@starn.com



VISIT OUR SHOP
20524 Blooming Valley Road
Meadville, PA 16335

Starn Tool & Mfg. MACHINING CAPABILITIES



CNC Milling

Complex 3-D machining can be accomplished on our 4th and 5th axis equipped CNC Mills such as our UMC 750 5-axis mills and our Fanuc Robodrill Vertical Machining Centers with 4th axis capability. These machines, along with our other 4th and 5th axis equipment, help internal efficiency by reducing the number of operations and in-process handling required to make finished parts. Efficiency can also be achieved through the use of our multiple pallet systems, high-speed spindles, and geared heads that allow us to handle anything from standard steels/alloy steels to exotics.

Our 3-axis and manual milling machines (such as our TRAK FHM7 3-Axis Vertical Mill) also provide our customers with a more cost-effective and delivery-savvy option for small lot production, without sacrificing on quality. These machines are perfect for less complex parts such as base plates, terminal nests, brackets, blades, and more!

CNC Turning

All of Starn's CNC Lathes have a 10" diameter capacity and a machining distance of 15", though we are able to handle parts longer than 15" through multiple operations or moving centers. These ultra-precision machines with 12 station turrets are capable of turning materials such as Tool Steel, Stainless Alloys, Exotics, as well as plastic and graphite for electrodes.

We also have two live toolings CNC Lathe machines (Okuma LU 3000 EX and Okuma LB 3000 EX) that allow us to reduce the need for additional milling operations after turning, such as the ability to machine thru-holes, drilled/tapped holes, hex heads, slots, and more, all without ever leaving one workstation. This reduces unnecessary handling between operations and provides a more competitive and comprehensive approach to manufacturing finished parts.

Surface/ID-OD Grinding

All of Starn's surface grinders are equipped with digital readouts and have 6"x18" tables that allow us to run small to large parts with a high degree of repeatability and accuracy on critical surface finishes and tight GD&T callouts. If critical forms are required on parts, we are able to radius, angle, and hand-dress our grind wheels to achieve complex elliptical radii and other intricate forms.

We also have an O.D. centerless grinder to quickly grind tight tolerance, critical surface finish parts like pins, studs, and more!

Through the use of our jig grinder and hone, we are also able to dial-in on critically toleranced I.D. features on various types of parts.

Wire/Ram EDM

Starn's Wire EDM machines are able to finish close tolerance, high complexity work with a quick turn-around, especially on high volume production runs as we are able to stack parts or cut multiple parts at a time from a large plate of material.

These versatile machines are efficient for all types of cutting and have 12.6" x 18.66" x 4.57" table travel, and we are also able to taper cut up to 30 degrees.

11
2026

NOVEMBER



SUN	MON	TUE	WED	THU	FRI	SAT
1 DAYLIGHT SAVINGS TIME ENDS	2	3 ELECTION DAY	4	5	6	7
8	9	10	11 VETERANS DAY	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26 THANKSGIVING	27	28
29	30					

OCTOBER
S M T W T F S
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

DECEMBER
S M T W T F S
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31



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