# Freeborn TOOL COMPANY, ING. 

American Made Tooling

# Freeborn Tool Company has built a reputation on precision, repeatability, value and customer support <br> - unequaled in the tooling industry. 

Thank you for choosing Freeborn Tool Co. for your tooling needs.
Since the 1970's, Freeborn Tool Co. has been a leading manufacturer of shaper cutters in the United States. Throughout the years, Freeborn has become known for the quality of their cutters as well as their ability to make custom tooling to fit the woodworker's requirements, quickly.

As the industry has progressed, Freeborn has kept up with current technology. Hand turning of bodies has been replaced with 5 axis machining centers, and CNC milling centers. No longer are profiles ground using manual profile machines. Instead, state of the art 5-axis profile grinders are used for all profiles, ensuring exact repeatability cutter after cutter.

Freeborn Tool Co. was one of the first cutter manufacturers to offer both carbide and alloy tipping to their cutters. T-alloy is superior in cutting most natural woods. Carbide cuts well with natural wood as well as manmade materials.

All Freeborn cutters go through a stringent quality assurance program throughout the manufacturing process. Multiple checks throughout the production process ensure accuracy, balance and a perfect fit every time. Unlike some of our competition, our Cope and Pattern sets are not
 just six cutters pulled from the shelf. Each set is individually matched on an optical comparator to guarantee the proper fit.

Initial quality is only the first step at Freeborn. We are available to work with the customer to determine their needs, and our after-sale customer service is of the highest standard. Whether professional or novice we will provide the information you need to resolve any cutter issues you face. Call us to discuss how we can help you.


## Spindle Alignment



Before using any shaper cutter always check your spindle to be sure it is square with the shaper table. Misalignment here causes off pattern and fitting problems.

1. Unplug the machine. Remove the fence and cutter.
2. Raise the spindle to its highest position and clamp a $12^{\prime \prime}-18^{\prime \prime}$ steel straight edge between the collars of the spindle.
3. Lower the spindle until the straight edge almost touches the table top.
4. Rotate the spindle by hand, observing the gap between the table top and the straight edge. If this gap is not uniform, indicating shaft misalignment, shim the spindle cartridge as needed to correct.

## Cope and Pattem Toubleshooting

On occasion, we receive calls from our customers that their new Cope and Pattern set does not fit together properly. The problem we hear most frequently is that the tongue fits too loose in the groove. In most cases, these problems are caused by a misaligned shaper spindle.

To check this alignment:

1. Follow the spindle alignment steps as listed above.
2. Next, take the center groover from the pattern side and run a test cut in a piece of wood. Take a pair of calipers and measure the cut in the piece of wood. Our standard groovers have a kerf of $.252^{\prime \prime}$. If the cut is greater than $.252^{\prime \prime}$ there is spindle run out, since a groover can't cut a groove greater than its kerf unless it is not cutting perpendicular to the wood. You need to go back and align your spindle, or you can shim your cope side to compensate.

NOTE: If your set has eased edges, you must nest the pattern center groover in the gullet of the cutters above and below. Failure to do so will cause the carbide of the center groover to hit the body of the other cutters. This will cause the fit to be poor, and may result in the center groover bending when the set is tightened on the spindle.

When the problem cannot be determined by these methods, give us a call. You can send the set back to us, along with a wood sample, so we can find out where the problem lies. If the problem is with the cutters, we will correct the set and return them to you at no charge. If there is no problem with the cutters, we will run a wood sample and return it with your cutters to show how the fit should be. Please note, there is a $\mathbf{\$ 2 5 . 0 0}$ charge for us to check the set and run the sample if we determine there is no problem with our set.

## ${ }^{\square}$ reeborn Tool Company is proud to present its latest collection of high quality Carbide and T-Alloy tipped shaper cutters. We are confident that here you will find numerous solutions to your woodworking needs. Your input is appreciated.

This catalog depicts all of our stock cutters including new profiles and wood cutting tools.

We list both our MINI-PRO and PRO-LINE series cutters that share the same profile on the same page. Opposite rotation is available at an additional $20 \%$ over the suggested list price. Wood samples are shown actual size unless otherwise indicated.

By offering the woodworker a choice in tipping materials, finding the tool best suited for the job becomes simpler.

## T-ALLOY TIPPED

Freeborn offers a complete line of shaper cutters with T-Alloy tips, uniquely designed for cutting natural woods (not to be used for man-made materials). T-Alloy is one of the most advanced cutting materials on the market today. It is extremely durable to better resist chipping and cracking, as well as corrosion from wood acids. They can also be face-honed between sharpenings for extra long life. T-Alloy cutters are painted bright yellow.

## CARBIDE TIPPED

Carbide tipped cutters are still unsurpassed while working with man-made materials such as particle board, plywood and fiberboard, as well as natural wood. The time-tested, orange colored Freeborn cutters offer a geometrically precise design that provides long life and unmatched results in a variety of applications.

## ORDERING INFORMATION

Product numbers are simple to understand by following the "Product Order Code" interspersed through the catalog.

## MINI-PRO SERIES

Our 3 wing cutters with a 3/4" bore.

PRO-LINE SERIES
Our 3 wing cutters with a 1-1/4" bore.

## CUSTOM

Of course, if you don't see exactly what you need, please give us a call to discuss custom cutters (see the Custom Made Tooling page in the back of the catalog).

## RETURN POLICY

All returns to Freeborn Tool Co. must be approved in advance. Returns must be unused and are subject to a $15 \%$ restocking fee. Exchanges of unused cutters will be exempt from the $15 \%$ restocking fee.

## CANCELLATIONS

Stock orders may be cancelled prior to shipping without penalty. Custom orders will be charged a prorated fee based on completion status.


## Address:

3304 E. Ferry Ave.
Spokane, WA 99202

## Phone:

(509) 484-3033

Toll Free in U.S. and Canada
1-800-523-8988

## Fax:

(509) 484-9932

## E-mail:

sales@freeborntool.com

## Web site:

 www.freeborntool.comCall Toll Free for the Freeborn Dealer nearest you.

## INSERT TOOLING

New 3 piece insert Cope and Pattern sets to allow easy fit adjustment.

- A two piece cope head with shims allow you to adjust your fit
- Common minor diameters and vertical profile centering eliminate the need to adjust the spindle height or fence position when switching from cope to pattern cuts
- Heads will accept both square and eased edges
- For 3/4" to 7/8" material
-4-1/2" outside diameter, 3-1/2" minor diameter
-4" diameter for Unique 250/265 available by special order
- $5.5 \mathrm{~mm} \times 1 / 2^{\prime \prime}$ tongue available by special order
- 1-1/4" bore
- Tips available in Carbide and T-Alloy


## Dedicated Profile Insert Cutters (3/4" to 7/8" material)


1 10-010

I 10-010 Eased

1 10-060
NEW


1 10-510 Eased
NEW

## Multi Profile Insert Cutters (3/4"to 7/8" material)



Our multi profile head will accept any of the five profiles shown above.

## Raised Panel Insert Cutters (3/4" materia)

$\cdot 3$ wing •1-1/4" bore $\cdot 6$ " diameter


Tips available in Carbide and Alloy.


## Raised Panel Insert Cutters (5/8" material)



## Insert Back \& Trim Cutters

$\cdot 3$ wing •1-1/4" bore •4-3/4" diameter


- 3 wing •1-1/4" bore $\cdot 3^{\text {" }}$ diameter


CARBIDE ONLY

## Door Edge Detail Insert Cutters



## Straight Cutter Inserts



IC-22-016-SP
-4" Outer Diameter

- 1-1/4" Bore
-30mm Tips
- 14x14mm Spur Bit



## NEW

IC-22-032-SP

- 4" Outer Diameter
- 1-1/4" Bore
-60mm Tips
- 14x14mm Spur Bit

Using standard 30 mm or 60 mm carbide inserts, this is an easy and inexpensive way to perform trim or rabbet cuts.

PLEASE NOTE: spurs are required for all cuts except trimming.
See page 7 for replacement tips.

## Split Groover Insert



## NEW

IC-22-ADJ
2 piece expandable groover set using $14 \times 14$ inserts. Set your cut from $12.5 \mathrm{~mm}-24 \mathrm{~mm}$ by using the included spacer or shims. 6" outer diameter.

See page 7 for replacement tips.

## Spiral Cutters



## NEW

IS-22-064
-4" Outer Diameter

- 1-1/4" Bore
- 4 Wing
-4" Height
- Aluminum Body


## Insert Replacement Tips

| COPE AND PATtERN |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SET \# | Carbide Cope Top | Carbide Cope Bottom | Carbide Pattern | Alloy Cope Top | Alloy Cope Bottom | Alloy Pattern |
| I-10-010 | IC-000-CTS | IC-010-CBS | IC-010-PS | IT-000-CTS | IT-010-CBS | IT-010-PS |
| I-10-010-E | IC-000-CTES | IC-010-CBES | IC-010-PES | IT-000-CTES | IT-010-CBES | IT-010-PES |
| I-10-011 | IC-000-CTS | IC-011-CBS | IC-011-PS | IT-000-CTS | IT-011-CBS | IT-011-PS |
| I-10-011-E | IC-000-CTES | IC-011-CBES | IC-011-PES | IT-000-CTES | IT-011-CBES | IT-011-PES |
| I-10-020 | IC-000-CTS | IC-020-CBS | IC-020-PS | IT-000-CTS | IT-020-CBS | IT-020-PS |
| I-10-020-E | IC-000-CTES | IC-020-CBES | IC-020-PES | IT-000-CTES | IT-020-CBES | IT-020-PES |
| I-10-030 | IC-000-CTS | IC-030-CBS | IC-030-PS | IT-000-CTS | IT-030-CBS | IT-030-PS |
| I-10-030-E | IC-000-CTES | IC-030-CBES | IC-030-PES | IT-000-CTES | IT-030-CBES | IT-030-PES |
| I-10-040 | IC-000-CTS | IC-040-CBS | IC-040-PS | IT-000-CTS | IT-040-CBS | IT-040-PS |
| I-10-040-E | IC-000-CTES | IC-040-CBES | IC-040-PES | IT-000-CTES | IT-040-CBES | IT-040-PES |
| I-10-050 | IC-000-CTS | IC-050-CBS | IC-050-PS | IT-000-CTS | IT-050-CBS | IT-050-PS |
| I-10-050-E | IC-000-CTES | IC-050-CBES | IC-050-PES | IT-000-CTES | IT-050-CBES | IT-050-PES |
| I-10-060 | IC-000-CTS | IC-060-CBS | IC-060-PS | IT-000-CTS | IT-060-CBS | IT-060-PS |
| I-10-060-E | IC-000-CTES | IC-060-CBES | IC-060-PES | IT-000-CTES | IT-060-CBES | IT-060-PES |
| I-10-500 | IC-000-CTS | IC-500-CBS | IC-500-PS | IT-000-CTS | IT-500-CBS | IT-500-PS |
| I-10-500-E | IC-000-CTES | IC-500-CBES | IC-500-PES | IT-000-CTES | IT-500-CBES | IT-500-PES |
| I-10-510 | IC-000-CTS | IC-510-CBS | IC-510-PS | IT-000-CTS | IT-510-CBS | IT-510-PS |
| I-10-510-E | IC-000-CTES | IC-510-CBES | IC-510-PES | IT-000-CTES | IT-510-CBES | IT-510-PES |
| RaIsEd Panel |  |  |  |  |  |  |
| SET \# | CARBIDE | ALLOY | SET \# | CARBIDE | ALLOY |  |
| 1-14-001 | IC-4-001-S | IT-4-001-S | 1-15-001 | IC-5-001-S | IT-5-001-S |  |
| 1-14-002 | IC-4-002-S | IT-4-002-S | 1-15-002 | IC-5-002-S | IT-5-002-S |  |
| 1-14-003 | IC-4-003-S | IT-4-003-S | 1-15-003 | IC-5-003-S | IT-5-003-S |  |
| 1-14-004 | IC-4-004-S | IT-4-004-S | 1-15-004 | IC-5-004-S | IT-5-004-S |  |
| 1-14-005 | IC-4-005-S | IT-4-005-S | 1-15-005 | IC-5-005-S | IT-5-005-S |  |
| 1-14-006 | IC-4-006-S | IT-4-006-S | I-15-006 | IC-5-006-S | IT-5-006-S |  |
| 1-14-007 | IC-4-007-S | IT-4-007-S | I-15-007 | IC-5-007-S | IT-5-007-S |  |
| 1-14-009 | IC-4-009-S | IT-4-009-S | 1-15-009 | IC-5-009-S | IT-5-009-S |  |
| BACK CUTIER |  |  | TRIM CUTIER |  |  |  |
| SET \# | CARBIDE | ALLOY | SET \# | CARBIDE |  |  |
| 1-16-001 | IC-6-001-S | IT-6-001-S | I-16-100 | IC-0140-060* |  |  |
| 1-16-002 | IC-6-002-S | IT-6-002-S |  |  |  |  |
| DETAIL CUTTER |  |  |  |  |  |  |
| SET \# | CARBIDE | ALLOY |  |  |  |  |
| 1-17-001 | IC-7-001-S | IT-7-001-S |  |  |  |  |
| 1-17-002 | IC-7-002-S | IT-7-002-S |  |  |  |  |
| I-17-101 | IC-7-101-S | IT-7-101-S |  |  |  |  |
| I-17-110 | IC-7-110-S | IT-7-110-S |  | d) | , | $\longrightarrow$ |
| I-17-113 | IC-7-113-S | IT-7-113-S |  |  | - |  |
| MISCELLANEOUS CUTTERS |  |  |  |  |  |  |
| SET \# | MAIN | SPUR |  |  | , |  |
| IC-22-016-SP | IC-0300-050* | IC-0140-060* |  |  |  |  |
| IS-22-032-SP | IC-0600-050* | IC-0140-060* |  |  |  |  |
| IC-22-ADJ | IC-0120-050* | IC-0140-060* |  |  |  |  |
| IC-22-032 | IC-0150-060* | *Sold in boxes of 10 tips. |  |  |  |  |
| IS-22-064 | IC-0150-060* |  |  |  |  |  |

## Cope \& Pattern 6 Piece Cutter Sets)

Versatile and easy-to-use. These 6 piece cutter sets are designed to perform the 3 functions shown. Our standard sets cut $1 / 4^{\prime \prime}$ wide x $3 / 8$ " deep tongue and groove. Our common minor diameter requires NO fence adjustment when changing from cope to pattern cuts ( $3 / 8$ " tongue only). Counterclockwise rotation with wood fed face down.

For optional tongue and groove cutters and eased edge option, see page 10 and 11 .


For opposite rotation, add 20\% to the suggested list price.

To order custom profiles, see our Custom Made Tooling page in the back of the catalog. Same day quoting.

Wood samples shown actual size.

For eased edges add 20\% to the suggested list price.


See stacking instructions on page 28.

- 3 wing $\cdot 2-15 / 16$ " diameter -3/4" bore •Runs with a 2-3/16" diameter rub bearing (AM-90-035)


## PRO-LINE cutters

- 3 wing •4" diameter
- 1-1/4" bore •Runs with a 3-1/4" diameter rub bearing (AP-90-052)


## 3/4" to 1-1/8" material

Cope \& Pattern
$3 / 4$ " to 1-1/8" material


## Glass Panel

3/4" to 1" material


Tongue \& Groove 3/4" material



Cope \& Pattern
3/4" to 1-1/8" material


Cope \& Pattern


## Applied Moulding Set



Tongue \& Groove
3/4" material


See stacking instructions on page 28.

For opposite rotation, add 20\% to the suggested list price. To order custom profiles, see our Custom Made Tooling page in the back of the catalog. Same day quoting.
Wood samples shown actual size.

For eased edges add $20 \%$ to the suggested list price.


1" to 1-3/8" material Glass Panel


Tongue \& Groove


## Double Sided Cope \& Pattern (6 Piece Cutter Sets)

Standard sets cut $1 / 4^{\prime \prime}$ wide $\times 3 / 8^{\prime \prime}$ deep tongue and groove.

## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter
-3/4" bore •Runs with a 2-3/16" diameter rub bearing (AM-90-035)


## PRO-LINE cutters

- 3 wing •4" diameter
-1-1/4" bore • Runs with a 3-1/4"
diameter rub bearing (AP-90-052)

1" to 1-1/8" material


Center Groover Sets (2 Piece Sets)

| PRODUCT ORDER CODE |  |  |  | M - MIN-PRO | (3/4" ${ }^{\text {P }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| M C 00-000 | P |  | 00-000 | P-PRO-LINE | (1-1/4" Bore) |
|  |  |  | 00-000 | T- T-Alloy Tip | (Yellow) |

At time of purchase, you may substitute the following tongue \& groove cutters for the standard tongue \& groove cutters in your cope \& pattern set, at no additional charge. If you choose an optional center groover set other than $3 / 8$ " depth, you will be unable to do the tongue \& groove option.
Available on all M-50 and P-10 series cope \& patterns.
For options other than $3 / 8$ " depth, diameters will no longer be the same, requiring fence adjustments between cuts.


To order custom profiles,
see our Custom Made Tooling page in the back of the catalog. Same day quoting.
Wood samples shown actual size.

Center Groovers Only - Profile cutters not included


## NEW: Split Groover Sets

These 4 piece split groover sets are used in the 10 and 50 series cope and pattern sets to allow you to cut between 3/16" and just under $3 / 8$ " with shims.
NOTE: Provides adjustment for spindle alignment issues. Exchange for standard center groovers for an additional fee.


## Optional Eased Edge Sets

Eased edges are available on all 10 and 50 series cope and patterns. However, you cannot do glass panel or tongue and groove without optional groovers from page 11. Add $20 \%$ to the suggested list price.


REMEMBER: Always stagger cutters when
 stacking. Never stack wing-to-wing or you will bend the center groover.

MINI-PRO cutters

- 3 wing •3.19" diameter -3/4" bore • Runs with a rub bearing (AM-90-035)


## PRO-LINE cutters

- 3 wing • 4.25 " diameter - 1-1/4" bore •Runs with a rub bearing (AP-90-052)


## 1/2" DEPTH OF PATTERN

## 3/4" to 1-1/8" material

Glass Panel
3/4" to 1" material



Tongue \& Groove 3/4" material


## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter
-3/4" bore •Runs with a 1-11/16" diameter rub bearing (AM-90-027)


## PRO-LINE cutters

$\cdot 3$ wing •4" diameter

- 1-1/4" bore •Runs with a 2-3/4"
diameter rub bearing (AP-90-044)


## Double Sided Cope \& Pattern (8 Piece Cutter Sets)

Standard sets cut $1 / 4$ " $\times 5 / 8^{\prime \prime}$ or $1 / 2^{\prime \prime} \times 5 / 8$ " deep tongue and groove. Mini-Pro is not to be used on $1 / 2^{\prime \prime}$ spindle.

These 8 piece cutter sets are built to cut both $1-3 / 8$ " passage doors and 1-3/4" entry doors simply by changing the center cutters.
A 2 piece glass panel groover set is also available to run with these sets (see next page).


## Double Sided Cope \& Pattern (8 Piece Cutter Sets)

| PRODUCT ORDER CODE |  |  | M - MIII-PRO | (3/4" |
| :---: | :---: | :---: | :---: | :---: |
| M C 00-000 | P | 00-000 | P-PRO-LINE | (1-1/4" Bore) |
|  |  | T 00-000 | T-T-Alloy Tip | (Yellow) |

Eased edges are available for an additional 20\%.

See custom cutter ordering information on inside back cover. Same day quoting.

Wood samples shown actual size. NOTE: All profiles shown may be made as a window sash set. Profiles shown as examples only.

Any of the below groover sets may be exchanged at no charge at the time of purchase.

## 1-3/4" material



| 5/8" Deep Center Groover Chart |  |  |
| :---: | :---: | :---: |
|  | MINI PRO SET | PRO-LINE SET |
| 1/4" GROOVERS ONLY | MC-51-904 | PC-11-904 |
|  |  | PT-11-904 |
| $3 / 8$ " GROOVERS ONLY | MC-51-903 | PC-11-903 |
|  |  | PT-11-903 |
| 1/2" GROOVERS ONLY | MC-51-905 | PC-11-905 |
|  |  | PT-11-905 |


| 1/2" Deep Center Groover Chart |  |  |
| :---: | :---: | :---: |
|  | MINI PRO SET | PRO-LINE SET |
| $1 / 4 " \times 1 / 2^{\prime \prime}$ | MC-51-906 | PC-11-906 |
|  |  | PT-11-906 |
| $3 / 8^{\prime \prime} \times 1 / 2^{\prime \prime}$ | MC-51-907 | PC-11-907 |
|  |  | PT-11-907 |
| $1 / 2^{\prime \prime} \times 1 / 2^{\prime \prime}$ | MC-51-908 | PC-11-908 |
|  |  | PT-11-908 |

## Optional Glass Panel Groovers (2 Piece cutiter Sets)

These Glass Panel sets consist of 2" groovers to allow a total material height of 2-1/2" when run with the profile cutters from your Cope and Pattern set. Any of the Double Sided Cope and Pattern profiles can be made into dedicated Glass Panel sets upon request.

Runs with $010,011,022$, $040,041,060$ and 500.


Profile shapes are for
example only. Set consists of 2 groovers only.


## MINI-PRO cutters

- 3 wing •4-1/2" diameter
-3/4" bore •Runs with a 1-5/8" diameter rub bearing (AM-90-026)

PRO-LINE cutters

- 3 wing • 6 " diameter - 1-1/4" bore •Runs with a 3 " diameter rub bearing (AP-90-048)

Raised Panel Shaper Cutters (3/4M Material)
 cuts both with and across the grain.

Counterclockwise rotation with wood fed face up.


For opposite rotation, add $20 \%$ to the suggested list price.
 cutters are manufactured with $15^{\circ}$ SHEAR to produce optimum



## Raised Panel Shaper Cutters (5/8" Material)

## MINI-PRO cutters

- 3 wing •4-1/2" diameter
-3/4" bore •Runs with a 1-5/8" diameter rub bearing (AM-90-026)

PRO-LINE cutters
$\cdot 3$ wing •6" diameter
-1-1/4" bore •Runs with a 3 " diameter rub bearing (AP-90-048)

For opposite rotation, add 20\% to the suggested list price.
To order custom profiles, see our Custom Made Tooling page in the back of the catalog. Same day quoting.
Wood samples shown actual size.

## Use with a back cutter to cut 3/4" material.



## Back Cutters - Raised Panel (3/4" Material)

## Raised Panel Tongue Trimmer

| MINI-PRO cutters | PRO-LINE cutters | Does not | MINI-PRO cutters | PRO-LINE cutters | Does not |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 3 wing $\cdot 3-3 / 8$ " diameter | $\cdot 3$ wing $\cdot 4-3 / 4$ " diameter | include Raised | $\cdot 3$ wing •1-5/8" diameter | $\cdot 3$ wing $\cdot 3^{\prime \prime}$ diameter | include Raised |
| -3/4" bore | -1-1/4" bore | Panel Cutter | -3/4" bore | $\cdot 1-1 / 4$ " bore | Panel Cutter |

Use with a 55/15 series raised panel for 3/4" material.


Toll Free in the U.S. and Canada 1-800-523-8988•Outside the U.S. 1-509-484-3033

## PRO-LINE cutters

- 3 wing • 1-1/4" bore
- Designed to run with a 3" diameter rub bearing (AP-90-048)
- Available in Pro-Line only

Manufactured with $15^{\circ}$ SHEAR to produce optimum cuts both with and across the grain.

Raised Panel Shaper Cutters (1/2" Material)

Counterclockwise rotation with wood fed face up.
These raised panel cutters cut a $1-3 / 8$ " reveal plus a $3 / 8^{\prime \prime}$ long tongue.
Reduce production time by adding an opposite rotation cutter, and produce double sided raised panels in a single pass.
Opposite rotation cutters are made to order. Please allow 7-10 days.


## PRO-LINE cutters

- 3 wing •1-1/4" bore $\cdot 2-1 / 2^{\text {" }}$ depth of cut
- Designed to run with a 2-1/4" diameter rub bearing (AP-90-036)
- Available in Pro-Line only


## 3/4" material



5/8" material


## Door Edge Detail Shaper Cutters

MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16^{\prime \prime}$ diameter -3/4" bore • 1 " wide tips

PRO-LINE cutters

- 3 wing $\cdot 4^{\text {" }}$ diameter
-1-1/4" bore • 1 " wide tips
All of these wood samples are full scale as shown. Whether it is a $30^{\circ}$ back bevel, fingerpull, $3 / 8$ " offset, or flush overlay door, we offer a wide selection to choose from.
Counterclockwise rotation with wood fed face up.

To order custom profiles, see our Custom Made Tooling page in the back of the catalog.


For opposite rotation, add 20\% to the suggested list price.
Wood samples shown actual size.



## PRO-LINE cutters

2-1/4" wide x 2-3/8" tall 5-1/4" diameter

Handrail Cutters (2 Piece Set)

## Table Saw Bead Cutters

- 6 wing
- 5/8" bore
-8" diameter

$\cdot 3$ wing $\cdot 2-1 / 16$ " minor diameter -3/4" bore

PRO-LINE cutters

- 3 wing $\cdot 3-1 / 16^{\prime \prime}$ minor diameter
-1-1/4" bore


## Part number is for top cutter only.

Manufactured with $15^{\circ}$ SHEAR to produce optimum cuts both with and across grain.

Counterclockwise rotation with wood fed face up.

Any top cutter is designed to nest and run with any bottom cutter.


For opposite rotation, add 20\% to the suggested list price.

To order custom profiles, see our Custom Made Tooling page in the back of the catalog. Same day quoting.
Wood samples shown actual size.


## Top Cutter Profiles $3 / 44^{4}$ to $7 / 88^{4}$ material



## Bottom Cutter Profiles

Bottom cutters for 32 mm Hinge Systems are designed to nest and run with any top cutter listed.
Selection of bottom cutter should depend upon the distance of the bored hole for the hinge from the edge of the door.
Manufactured to the same specifications as all top cutters.


| PRODUCT ORDER CODE |  | M-MIN-PRO | (314"Bore) |
| :---: | :---: | :---: | :---: |
| M C 00-000 | P C 00-000 | ${ }_{\text {P-PRO-LINE }}^{\text {C-Caridetip }}$ | ${ }^{(1-1 / 1 / 4 \mathrm{~B}}$ Bre) |
|  | P T 00-000 | T-T-Alloy T ( | (Yellow |

## Door Edge Details (32mm Hinge System)

Top Cutter Profiles $7 / 8$ "to 1 " material

Part number is for top cutter only.


PRO-LINE cutters

- 3 wing $\cdot 4$ " diameter -1-1/4" bore • 1-1/8" tips


## Window Sill Cutters

MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16^{\prime \prime}$ diameter - 3/4" bore • 1-1/8" tips


Edge Detail cutters for up to 1 " material.

MINI-PRO cutters

- 3 wing • 2-15/16" diameter - 3/4" bore • 1 " wide tips Cuts from $1 / 2^{\prime \prime}$ to $7 / 8^{\prime \prime}$ material


## PRO-LINE cutters

- 3 wing $\cdot 2-15 / 16$ " diameter
- 1-1/4" bore $\cdot 2$ " wide tips Cuts from 1/2" to 1-7/8" material

Reversible Glue Joint

Creates an incredibly strong joint by interlocking the glue surfaces.


## V-Paneling Shaper Cutter Set

The V-Paneling set consists of 5 cutters and 1 spacer to perform these 4 functions.
Counterclockwise rotation with wood fed face down.

To order custom profiles, see our Custom Made Tooling page in the back of the catalog. Same day quoting.
Wood samples shown actual size.

MINI-PRO cutters
$\cdot 3$ wing • $2-15 / 16$ " diameter

- $3 / 4$ " bore $\cdot$ Designed to run with 2-3/16" diameter rub bearing

See stacking instructions on page 29.


## 7-PC. Flooring Set

The flooring set consists of 6 cutters and 1 spacer to perform these 5 functions.
Cut provides a loose fit (.030) for wood expansion. Set up instructions included.
Counterclockwise rotation with wood fed face down.
See stacking instructions on page 29.

## 3/4" to 1" material



## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter -3/4" bore


## PRO-LINE cutters

- 3 wing • 4" diameter - 1-1/4" bore • Designed to run with 3-1/4" diameter rub bearing

Optional Rub-Spacers \& Groovers for Cope Side

| NEW | MINI-PRO SET |  | PRO-LINE SET |  |
| :---: | :---: | :---: | :---: | :---: |
|  | RUB SPACER | GROOVER | RUB SPACER | GROOVER |
| SINGLE-V | AM-50-809 |  | AP-10-809 | PC-19-011 |
|  |  |  |  | PT-19-011 |
| DOUBLE-V | AM-50-809 |  | AP-10-809 | PC-19-011 |
|  |  |  |  | PT-19-011 |
| DOUBLE COPE \& PATTERN | AM-50-801 | MC-59-012 | AP-10-801 | PC-19-012 |
|  |  |  |  | PT-19-012 |
| SINGLE COPE \& PATTERN | AM-50-801 | MC-59-012 | AP-10-801 | PC-19-012 |
|  |  |  |  | PT-19-012 |

PRO-LINE cutters

- 3 wing $\cdot 4^{\text {" }}$ diameter
-1-1/4" bore



## 5-PC. Flooring Set with Nail Slot

MINI-PRO cutters
$\cdot 3$ wing $\cdot 2-15 / 16$ " diameter -3/4" bore

PRO-LINE cutters

- 3 wing • 4" diameter -1-1/4" bore


## 8-PC. Flooring /V-Panel Set

This set includes 5 cutters to perform the cut as shown.

Counterclockwise rotation with wood fed face down. Up to 1" material.


## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16^{\prime \prime}$ diameter - 3/4" bore

PRO-LINE cutters

- 3 wing $\cdot 4$ " diameter -1-1/4" bore

This set includes 8 cutters to perform the two cuts as shown. Runs CCW, face down.

Cut provides a 0.010" loose fit to allow for
 wood expansion.

MINI-PRO cutters
$\cdot 3$ wing $\cdot 2-15 / 16$ " diameter -3/4" bore

PRO-LINE cutters

- 3 wing $\cdot 4$ " diameter -1-1/4" bore


## Quarter Cove Convex Cutters

Counterclockwise rotation with wood fed face down.

| Number |  |  |  |  |  |  |  |  | Width |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | C | 60-002 | P | C | 20-002 | P | T | 20-002 | 1/8" |
| M | C | 60-004 | P | C | 20-004 | P | T | 20-004 | 1/4" |
| M | C | 60-006 | P | C | 20-006 |  | T | 20-006 | 3/8" |
| M | C | 60-008 | P | C | 20-008 |  | T | 20-008 | 1/2" |
| M | C | 60-012 | P | C | 20-012 | P | T | 20-012 | 3/4" |



## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter
- 3/4" bore • 1 " wide tips

PRO-LINE cutters

- 3 wing • 4 " diameter - 1-1/4" bore • 1 " wide tips

Counterclockwise rotation with wood fed face up.


## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter -3/4" bore • Designed for use with 2-15/16" diameter rub bearing for flush trim application


PRO-LINE cutters

- 3 wing $\cdot 4^{\text {" }}$ diameter
- 1-1/4" bore • Designed for use with 4" diameter rub bearing for flush trim application

|  | Number |  |  |  |  |  | Width |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M C | C 62-002 | P | ( 22-002 | P | T 22-002 | 1/8" |
| NEW M | M C | C 62-003 | P | C 22-003 | P | T 22-003 | 3/16" |
|  | M C | C 62-004 | P | C 22-004 | P | T 22-004 | 1/4" |
|  | M C | C 62-005 | P | C 22-005 | P | T 22-005 | 5/16" |
|  | M C | C 62-006 | P | C 22-006 | P | T 22-006 | 3/8" |
|  | M C | ( 62-007 | P | C 22-007 | P | T 22-007 | 7/16" |
|  | M C | C 62-008 | P | C 22-008 | P | T 22-008 | 1/2" |
|  | M C | C 62-010 | P | C 22-010 | P | T 22-010 | 5/8" |
|  | M C | C 62-012 | P | C 22-012 | P | T 22-012 | 3/4" |
|  | M C | C 62-014 | P | C 22-014 | P | T 22-014 | 7/8" |
|  | M C | C 62-016 | P | C 22-016 | P | T 22-016 | $1{ }^{\prime \prime}$ |
|  | M C | C 62-020 | P | C 22-020 | P | T 22-020 | 1-1/4" |
|  | M C | C 62-024 | P | C 22-024 | P | T 22-024 | 1-1/2" |
|  | M C | C 62-028 | P | C 22-028 | P | T 22-028 | 1-3/4" |
|  | M C | ( 62-032 | P | C 22-032 | P | T 22-032 | $2{ }^{\prime \prime}$ |



After machining two pieces of wood, one piece may be inverted and plugged into its mate, forming a matched joint.

## Straight Top Groovers



Straight Top Groovers are ideal for cutting grooves, rabbets, and for flush trimming.

## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16^{\prime \prime}$ diameter -3/4" bore

PRO-LINE cutters

- 3 wing •4" diameter
-1-1/4" bore

trimming.


## Half Round Convex Shaper Cutters

Reversible Pattern Detail


## MINI-PRO cutters

- 3 wing •2-15/16" diameter
-3/4" bore

PRO-LINE cutters

- 3 wing • 4 " diameter
-1-1/4" bore


## Half Round Concave Shaper Cutters




## Corner Rounding Shaper Cutters

Larger PRO-LINE Cutters exceed the standard 4" diameter (see chart).
Counterclockwise rotation with wood fed face down.

$R=C C W$, wood face up


## Matched Drop Leaf

Counterclockwise rotation with wood face down. When running counterclockwise, cove cut is made by lowering shaper spindle to cut with the top half of the cutter. Bead cut is made by raising shaper spindle to cut with the bottom half of the cutter.

## Window Sash Cutter Set (4 Piece Cutter Set)



MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter -3/4" bore


## PRO-LINE cutters

- 3 wing $\cdot 4$ " diameter (unless specified) -1-1/4" bore



## MINI-PRO cutters

$\cdot 3$ wing $\cdot 2-15 / 16$ " diameter -3/4" bore

## PRO-LINE cutters

- 3 wing • 4 " diameter
-1-1/4" bore



## MINI-PRO cutters

$\cdot 3$ wing $\cdot 2-15 / 16^{\prime \prime}$ diameter -3/4" bore

PRO-LINE cutters

- 3 wing •4" diameter -1-1/4" bore

These window sash profiles are common in many older homes. They are made to cut stock up to 1-3/4".
Counterclockwise rotation with wood fed face down.

## Drawer Lock Cutter

Run drawer front face up in horizontal position over the top of the cutter. Drawer sides are run on end in a vertical position against the shaper fence. Made to cut up to 3/4" drawer sides. Counterclockwise rotation only.


## PRO-LINE cutters

- 3 wing $\cdot 5$ " diameter
-1-1/4" bore


## MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter -3/4" bore



## One Piece Double Tongue \& Groove Lock Mitre Cutter



Counterclockwise rotation only. Mini-Pro is made to run only on 3/4" spindle.
Part B is run flat in horizontal position on shaper table.
Part $A$ is run in a vertical position against the shaper fence (see diagram). See page 28.

## 1/2" material

MINI-PRO cutters

- 3 wing $\cdot 3 / 4$ " bore -2-15/16" diameter - 3/4" wide tips

PRO-LINE cutters

- 3 wing •1-1/4" bore -4" diameter -3/4" wide tips


## 3/4"-1" material

## MINI-PRO cutters

- 3 wing • 3/4" bore -4.05" diameter
-1-1/8" wide tips

PRO-LINE cutters

- 3 wing • 1-1/4" bore - 5.05" diameter -1-1/8" wide tips


## 1-1/2" material

## PRO-LINE cutters

-1-1/4" bore •6" diameter

- 3 wing • $1-3 / 4$ " wide tips



## Two Piece Double Tongue \& Groove Lock Mitre Sets



MINI-PRO cutters

- 3 wing $\cdot 3 / 4^{\text {" b bore }}$
-2-15/16" diameter
- 1 " wide tips

PRO-LINE cutters

- 3 wing • 4 " diameter
$\cdot 1-1 / 4$ " bore
-1" wide tips


## MINI-PRO cutters

- 3 wing • 4-5/16" diameter
-3/4" bore • Use on $3 / 4$ " spindles only

PRO-LINE cutters

- 3 wing $\cdot 5-3 / 8^{\text {" }}$ diameter
$\cdot 1-1 / 4$ " bore

Counterclockwise rotation only. Mini-Pro is made to run only on 3/4" spindle.
Material to 1-1/8".
Part $A$ and $B$ are both run flat in horizontal position on shaper table. Part B is run again on table saw to cut groove (see diagram).


## 1-Piece Double Easing Cutters

MINI-PRO cutters

- 3 wing $\cdot 2-15 / 16$ " diameter -3/4" bore

PRO-LINE cutters

- 3 wing • 4 " diameter -1-1/4" bore

| Number |  |  | P | C 31-006 |  | P | P T 31-006 |  | Width 3/8" | Radius <br> 1/8" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | C | 71-006 |  |  |  |  |  |  |  |  |
| M | C | 71-008 | P | C | 31-008 | P | T | 31-008 | 1/2" | 1/8" |
| M | C | 71-012 | P | C | 31-012 | P | T | 31-012 | 3/4" | 1/8" |
| M | C | 71-016 | P | C | 31-016 | P | T | 31-016 | $1{ }^{1 \prime}$ | 1/8" |
| M | C | 71-020 | P | C | $31-020$ | P | T | 31-020 | 1-1/4" | 1/8" |
| M |  | 71-024 | P | C | 31-024 | P | T | 31-024 | 1-1/2" | 1/8" |



Custom rub bearings available for these cutters.

## Wedge Tongue \& Groove

4 Piece Set


## MINI-PRO cutters

$\cdot 3$ wing $\cdot 2-3 / 16^{\prime \prime}$ minor diameter
-3/4" bore

## Edge Banding

3 Piece Set


## 4-Piece Expandable Double Easing Set



Each set includes 2 cutters and 2 spacers to cut 3/4", 1", 1-1/4" and 1-1/2" material.

## Extended Corner Rounds



## MINI-PRO cutters

$\cdot 3$ wing $\cdot 2-15 / 16$ " diameter -3/4" bore

## PRO-LINE cutters

$\cdot 3$ wing $\cdot 4^{\prime \prime}$ diameter -1-1/4" bore

PRO-LINE cutters
$\cdot 3$ wing $\cdot 3^{\prime \prime}$ minor diameter -1-1/4" bore

Counterclockwise rotation with face down. For up to 1-1/4" material.

## Ball Bearing Rub Collars

| Number |  | Bore | Diam. |
| :--- | :--- | :--- | :--- |
| AM $90-026$ | $3 / 4^{\prime \prime}$ | $1-5 / 8^{\prime \prime}$ |  |
| AM $90-027$ | $3 / 4^{\prime \prime}$ | $1-11 / 16^{\prime \prime}$ |  |
| AM $90-033$ | $3 / 4^{\prime \prime}$ | $2-1 / 16^{\prime \prime}$ |  |
| AM $90-035$ | $3 / 4^{\prime \prime}$ | $2-3 / 16^{\prime \prime}$ |  |
| AM $90-039$ | $3 / 4^{\prime \prime}$ | $2-7 / 16^{\prime \prime}$ |  |
| AM $90-047$ | $3 / 4^{\prime \prime}$ | $2-15 / 16^{\prime \prime}$ |  |


| Number | Bore | Diam. |  |
| :--- | :--- | :--- | :--- |
| AP | $90-036$ | $1-1 / 4^{\prime \prime}$ | $2-1 / 4^{\prime \prime}$ |
| AP | $90-040$ | $1-1 / 4^{\prime \prime}$ | $2-1 / 2^{\prime \prime}$ |
| AP | $90-044$ | $1-1 / 4^{\prime \prime}$ | $2-3 / 4^{\prime \prime}$ |
| AP | $90-048$ | $1-1 / 4^{\prime \prime}$ | $3 "$ |
| AP | $90-049$ | $1-1 / 4^{\prime \prime}$ | $3-1 / 16^{\prime \prime}$ |
| AP | $90-052$ | $1-1 / 4^{\prime \prime}$ | $3-1 / 4^{\prime \prime}$ |
| AP | $90-056$ | $1-1 / 4^{\prime \prime}$ | $3-1 / 2^{\prime \prime}$ |
| AP | $90-060$ | $1-1 / 4^{\prime \prime}$ | $3-3 / 4^{\prime \prime}$ |
| AP | $90-064$ | $1-1 / 4^{\prime \prime}$ | $4 "$ |

Rub Spacers for Cope \& Pattern

| A M $50-803$ <br> A P $10-803$ | $A$ M $50-801$ <br> $A$ P $10-801$ |
| :---: | :---: |
| $\begin{gathered} 1 / 4 " \times 3 / 8^{\prime \prime} \\ \text { tongue } \end{gathered}$ | $\begin{gathered} 1 / 4 " \times 1 / 2^{\prime \prime} \\ \text { tongue } \end{gathered}$ |
| A M $50-806$ <br> A P $10-806$ | A M $50-807$ <br> A P $10-807$ |
| $5.5 \times 3 / 8 "$ tongue | $5.5 \times 1 / 2^{\prime \prime}$ <br> tongue |



## T-Bushings

## Choose from

- Long Style - for 3 to 6 Cutter Sets. Consists of 1 long and 1 short T-Bushing.
- Short Style - for Single Cutters. Consists of 2 short T-Bushings.
- Double Sided - to run between Cutter and Bearing.


| Number |  | Bore | Width |
| :--- | :--- | :--- | :--- |
| AM | $91-008$ | $1 / 2^{\prime \prime}$ | $3 / 4^{\prime \prime}$ |
| AX | $91-012$ | $3 / 4^{\prime \prime}$ | $1^{\prime \prime}$ |
| AP | $91-012$ | $3 / 4^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $91-016$ | $1^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $91-016$ LL** $^{*}$ | $1^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $91-017$ | 30 mm | $1-1 / 4^{\prime \prime}$ |
| AP | $91-018$ | $1-1 / 8^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |

Short Style

| Number |  | Bore | Width |
| :--- | :--- | :--- | :--- |
| AM | $92-008$ | $1 / 2^{\prime \prime}$ | $3 / 4^{\prime \prime}$ |
| AX | $92-012$ | $3 / 4^{\prime \prime}$ | 1 " |
| AP | $92-008$ | $1 / 2^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $92-012$ | $3 / 4^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $92-016$ | $1 "$ | $1-1 / 4^{\prime \prime}$ |
| AP | $92-017$ | 30 mm | $1-1 / 4^{\prime \prime}$ |
| AP | $92-018$ | $1-1 / 8^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |

Double Sided

| Number |  | Bore | Width |
| :--- | :--- | :--- | :--- |
| AM | $93-008$ | $1 / 2^{\prime \prime}$ | $3 / 4^{\prime \prime}$ |
| AP | $93-008$ | $1 / 2^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $93-012$ | $3 / 4^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |
| AP | $93-016$ | 1 " | $1-1 / 4^{\prime \prime}$ |
| AP | $93-018$ | $1-1 / 8^{\prime \prime}$ | $1-1 / 4^{\prime \prime}$ |

* for use with double sided Cope and Pattern sets


## Spacers and Shims

## The Shaper Book by Lonnie Bird

Spacers - Used in a wide range of woodworking applications.

Shims - Sets of 48 colorcoded plastic shims for various spacing needs.

## Shims

| Number | Bore | Qty. | Color | Thickness | Qty. | Color | Thickness |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| AM $95-008$ | $1 / 2^{\prime \prime}$ | 6 | Green | $.003^{\prime \prime}$ | 6 | Black | $.0125^{\prime \prime}$ |
| AM $95-012$ | $3 / 4^{\prime \prime}$ | 6 | Blue | $.005^{\prime \prime}$ | 6 | Pink | $.015^{\prime \prime}$ |
| AP | $95-016$ | $11^{\prime \prime}$ | 6 | Matte | $.0075^{\prime \prime}$ | 6 | Yellow |
| AP | $.020^{\prime \prime}$ |  |  |  |  |  |  |
| AP | $95-002$ | $1-1 / 8^{\prime \prime}$ | 6 | Brown | $.010^{\prime \prime}$ | 6 | Coral |
| $1-1 / 4^{\prime \prime}$ |  |  |  |  |  |  |  |

With an emphasis on safety, this book is a step-by-step guide that will teach you all about the shaper: from basic setups to cutting curved molding profiles to designing shaper jigs that will expand your woodworking potential.


Shims - Sets of 20 metal shims in five thicknesses.
Metal Shims

| Number | NEW |  |  |
| :--- | :--- | :--- | :--- |
| AM | Bore | Qty. | Thickness |
| AP | $95-012-M$ | $3 / 4^{\prime \prime}$ | 4 |
|  | $.003^{\prime \prime}$ |  |  |
|  |  | $1-1 / 4^{\prime \prime}$ | 4 |
|  |  | $.0005^{\prime \prime}$ |  |
|  |  | 4 | $.010^{\prime \prime}$ |
|  |  | 4 | $.015^{\prime \prime}$ |
|  |  |  |  |

## Setting Up a Lock Mitre Set

This cutter makes a great joint in wood, but they can be a challenge to set up for a perfect fit. The reason is there are two factors that take place to ensure a proper fit. They are the cutter height and the fence position.

To begin the set-up, install the cutter onto the shaper so the middle height of the cutter and the middle height of the stock is approximately the same size vertically. It won't be perfect, but it is a good starting point. Using stock of the same thickness as you will in your project, run two pieces through horizontally, flip one piece 180 degrees and test fit them. If they are flush, your bit height is set correctly. If not, adjust the bit height by half of the distance that the fit was off. When you have got this step right, you can move on to adjusting the fence.

Diagram 1
(See diagram 1)


Start by running the test stock vertically against the face of the fence. Once the vertical pieces fit together flush, your set-up should be correctly set.
(See diagram 2)


## Cope \& Pattern Stacking Instructions



Each function of the 6 piece cope \& pattern set requires a different cutter configuration. For desired results, use the following guide to set up each operation.

REMEMBER: Always stagger cutters when stacking. Never stack wing to wing.

See page 31 for trouble shooting.

## M-59-010 / P-19-010

## V-Paneling Stacking Instructions

## ALWAYS CHECK SPINDLE AND FENCE ALIGNMENT

Each function requires a different cutter configuration. For desired results use the following guide to set up each operation. 0.75 " wood thickness shown. (not to scale)


SINGLE - V


COPE \& PATTERN


## M-59-020 / P-19-020



## Flooring Set Stacking Instructions



## Custom Made Tooling Sheet

## CUSTOMER INFORMATION

Contact:
$\qquad$
Phone:
Fax:
Email:

## TOOLING INFORMATION

Tool Type: $\qquad$
Bore/Shank: $\qquad$
Diameter: $\qquad$
Rotation: CCW CW
Tipping: Carbide T-Alloy
\# of Wings: $\qquad$


## MATERIAL INFORMATION

Type:
Thickness:
Direction: Face Up Face Down
Additional Info: $\qquad$ RPM: $\qquad$
Feed Rate: $\qquad$
Min./Max. Circle:


Technical Assistance: Many cutting applications require more than a stock answer. T-alloy or Carbide, multiple wings, shear face, climb cutting, or the use of outboard fences and power feeds. The specialized sale and engineering staff at Freeborn will assist you in meeting your profiling challenges. An infinite number of shapes and sizes will provide a solution to virtually any job. We invite your inquiries and stand ready to help you with your stock and custom cutter requirements.
Unsurpassed Quality: Our cutters are geometrically precise to the highest standards. For years Freeborn Tool Company has designed, engineered, and manufactured its own profiling equipment, facing machines, and dual side grinders for in plant use. Coupled with high powered comparators, this equipment has proven to consistently meet our own strict tolerances in manufacturing.
Fast Delivery: Quick turnaround and delivery are essential. Fax your dimensional drawings to us and we will immediately process your order. Same day quotes are the rule.
Ease of Reordering: Every custom-made Freeborn cutter is given careful attention. Each is assigned its own drawing number which is filed for easy reordering reference. The assigned drawing number allows us to quickly duplicate the exact profile to your original specifications.

# Freeborn TOOL GOMPANY, INC. 



ADDRESS:
3304 E. FERRY ST.
SPOKANE, WA 99202

PHONE:
(509) 484-3033

EMAIL:

