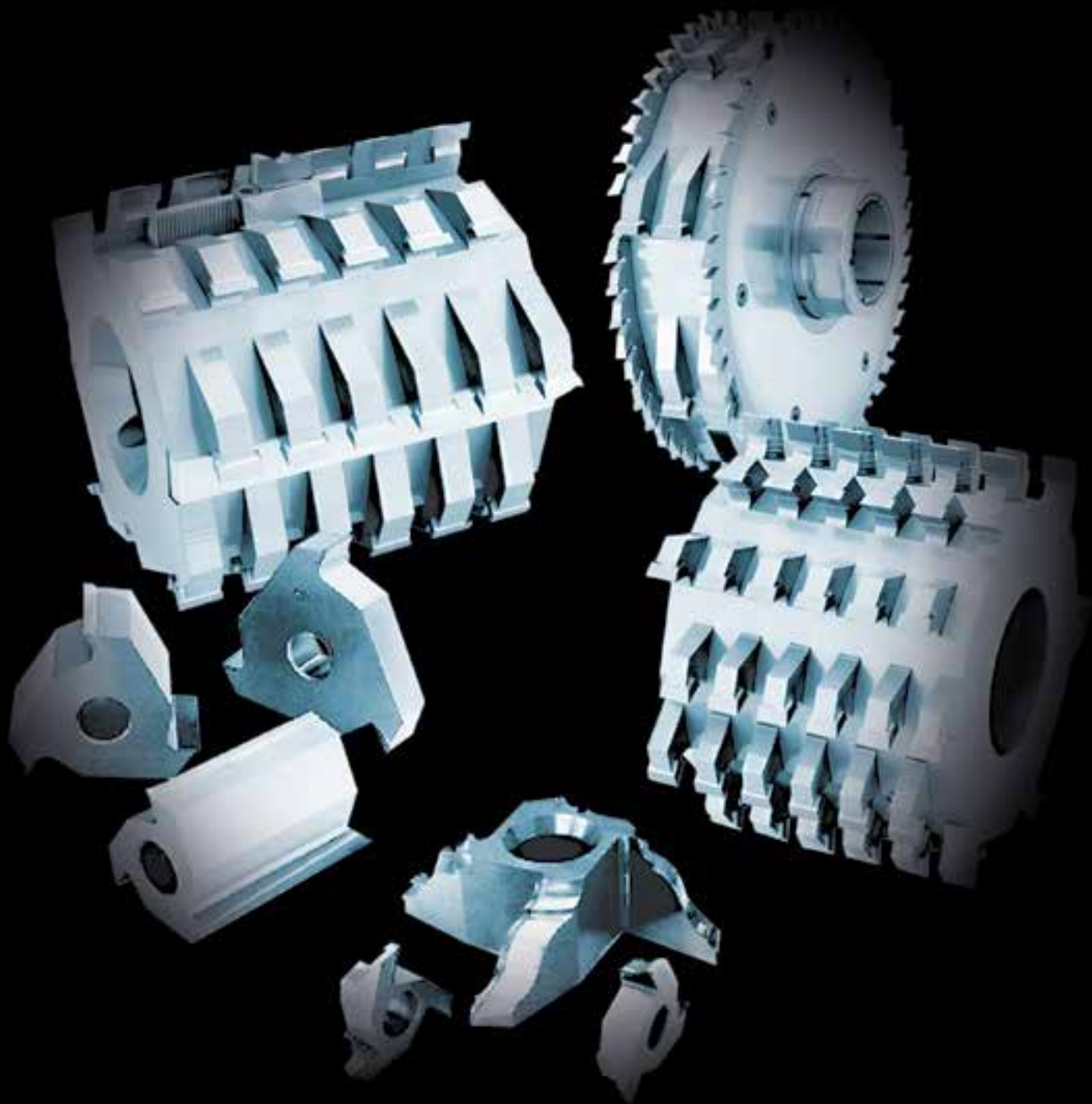


Carbide Tipped Cutter Heads



NAPGLADU

Delivering Productivity

Table of Contents – Section E

Description	Page
Ordering Instructions	4-5
Spiracut Shaper Heads	6
TH12 Reversible Tenon Head	7
Whisper Quiet Moulder Heads	8-12
Whisper Quiet I Moulder Head	9-10
Whisper Quiet II Moulder Head	11-12
Straight Cutter Heads	13
Mill-to-Pattern Profile Cutter Heads	14
Brazed Profile Router Bits	15

A
B
C
D
E
F
G
H
I
J
K

Ordering Instructions

A

Tenon and Shaper Heads

Bore size and style

Size: _____

Style: Straight Cone Collet Sleeve

Keyway size and quantity

Size: _____

Quantity: _____

Location (i.e. Staggered): _____

Type of material being cut: _____

E

Moulder Heads

Style

4WQI 4WQII

6WQI 6WQII

Bore size and style

Straight Cone Collet Sleeve

Hook angle

Soft wood 20 degrees

Hard wood 10 degrees

Type of material being cut: _____

J

Adjustable Insert Cutters

Adjustability

Vertical adjustment .100" increments: _____
(This depth of cut is based on a 5-1/2" or 6-1/2" diameter head.)

Used moulder head

If plugs are needed, specify exact diameter: _____

Type of material being cut: _____

Straight Cutter Heads

Bore size and style

Size: _____

Style: Straight Cone Collet Sleeve

Type of material being cut: _____

Mill-to-Pattern Cutter Heads

Collar Size

Is tool running with rub collar or berring: Yes No

If Yes, specify its diameter: _____

Diameter

Large/Small diameter of pattern: _____ / _____

Does the tool run in sets: Yes No

If Yes, are matching diameters required: Yes No

Specify matching diameter: _____

Bore size and style

Size: _____

Style: Straight Cone Collet Sleeve

Keyway size and quantity

Size: _____

Quantity: _____

Location (i.e. Staggered): _____

Rotation

Right-Hand Rotation Left-Hand Rotation

Both Quantity: _____

Mounting Holes

Size: _____

Quantity: _____

Bolt Circle: _____

Are mounting holes to be countersunk: Yes No

If Yes, specify which side is countersunk with the top
tooth face coming: _____

Assembled Cutters

Just locating pins: Yes No

Bolted together: Yes No

Hub mounted and pinned: Yes No

Hub mounted and bolted: Yes No

Type of material being cut: _____

Mill-to-Pattern Router Bits

Dimensions

Shank diameter: _____ Shank length: _____

Large/Small diameter to be held: _____ / _____

Type of material being cut: _____

Spiracut Shaper Heads



Applications

- For hand and automatic feed shaper operations
- Excellent tool for rip and end grain cuts

Advantages

- CNC machined from solid steel for better accuracy
- Spiral tooth design for reduced cutting pressure, faster feed rates, and less horsepower required over straight knife heads
- Less noise generated
- Minimal tear out
- Individual teeth for lower maintenance cost

Technical Information

- Stagger tooth design on one-piece, 2-wing head with replaces 2- wing straight knife heads
- 25 degree hook is standard
- Additional hook angles available upon request
- Specify straight or cone collet bore
- Bore sizes available in 1", 1-1/8" and 1-1/4"
- Other bores available upon request

Part No.	Head Diameter	Teeth	Cutting Width
SSH 4-3	4"	18	3"
SSH 4-4	4"	24	4"
SSH 4-5	4"	30	5"
SSH 4-6	4"	36	6"

Optional Items for Shaper and Tenon Heads

5/32" Thick Carbide	Keyways	Add Hydro Bore to Heads up to 5"
Bores Over 2.125 (2-1/8")	Mounting Holes (qty. 1-6)	Add Hydro Bore to Heads >5"
Cone Bore	Mounting Holes (qty. 7+)	Add Grease Fitting & Release to O.D.
Face Shear Both Directions	Set Screw Mounting	NP552 - High Pressure Grease Gun
Face Shear One Direction	Shim Stock	NP553 - High Pressure Hose
Hubs and Trepans (up to 1 inch)	Sleeve Bore	NP554 - Hydraulic Connector
Hubs and Trepans (over 1 inch)	TC-4 (Tantung, Crobalt)	NP555 - Grease Cartridge

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

TH12 Reversible Tenon Heads

A

B

C

D

E

F

G

H

I

J

K



Technical Information

- Center cutter is a one-piece staggered tooth design
- Trim blades on each side incorporate a 3:1 tooth design, mounted to the center of cutter for concentricity
- The reversible position utilizes 1/2 or less of the total cutting width of the head. The unused area can then be used by mounting the head in the opposite position. Only one trim blade is needed in the non-reversible position
- For open end sleeve mount, you must add on the price of the sleeve

Applications

- For single and double end tenon machines
- Used to cut hard and soft woods, veneers, laminated plastic, particleboard, etc

Advantages

- CNC machined from solid steel for better accuracy
- Head is reversible for double production life over conventional heads
- Trim blades act as scoring saws to deliver a clean smooth edge on the material with minimal tearout

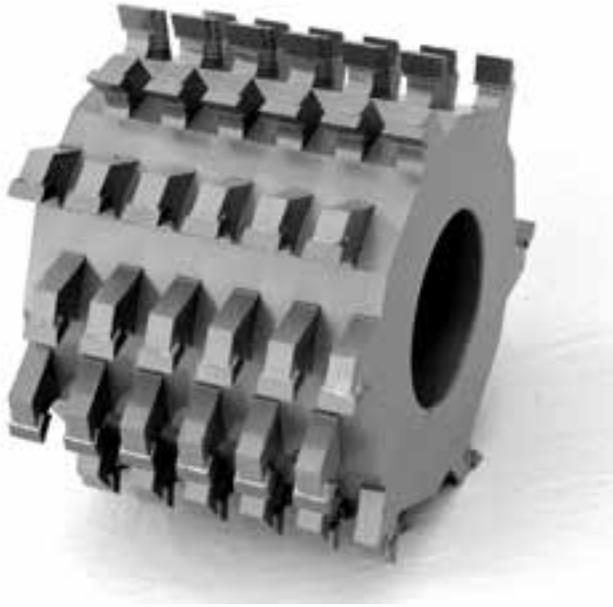
Part No.	Head Diameter	Cutting Width
TH12-8-2	8"	2"
TH12-8.75-2	8-3/4"	2"
TH12-8-3	8"	3"
TH12-8.75-3	8-3/4"	3"

TH12 Replacement Saws

Part No.	Head Diameter	Teeth
TH12-8-44	8"	44
TH12-8.75-44	8-3/4"	44

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Whisper Quiet Moulder Heads



Technical Information

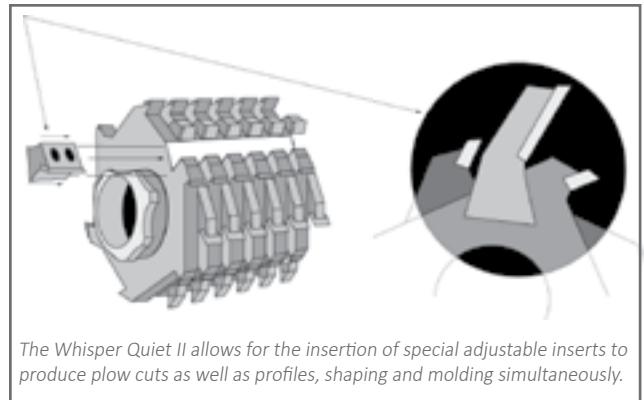
- Stagger tooth design on a one piece head
- Soft wood (20°) and hard wood (10°) hook angles
- Additional hook angles available upon request
- Available in either a 4 wing (4WQI and 4WQII) or 6 wing (6WQI or 6WQII) equivalent
- Additional wing counts available by quote only

Applications

- For running dimension stock in through feed or conventional moulders

Advantages

- CNC machined from solid steel for better accuracy
- Staggered tooth design provides deeper cuts and reduces air turbulence, noise and cutting pressures on the material
- Smooth finish on material (no lines)
- Less noise generated
- Individual teeth for lower maintenance cost



Optional Items for Whisper Quiet Heads

Bores Over 2.125 (2-1/8")	Mounting Holes (qty. 7+)	NP552 - High Pressure Grease Gun
Cone Bore	Set Screw Mounting	NP553 - High Pressure Hose
Hubs and Trepan (up to 1 inch)	Sleeve Bore	NP554 - Hydraulic Connector
Hubs and Trepan (over 1 inch)	Add Hydro Bore to Heads up to 5"	NP555 - Grease Cartridge
Keyways	Add Hydro Bore to Heads >5"	
Mounting Holes (qty. 1-6)	Add Grease Fitting & Release to O.D.	

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Whisper Quiet I Moulder Heads

A

4 Wing Head

The Whisper Quiet Moulder Head is the equivalent to a four (4) knife head. It has 8 rows of staggered teeth. Please specify the hook angle when ordering. Standard hook angle is either 20° (soft wood) or 10° (hard wood).

B

C

D

E

F

G

H

I

J

K

Head Diameter	Teeth	Cutting Width per Tooth	Wings	Cutting Width
5"	32	.500"	4	4"
5"	48	.500"	4	6"
5"	64	.500"	4	8"
5"	80	.500"	4	10"
5"	96	.500"	4	12"
5-1/2"	32	.500"	4	4"
5-1/2"	48	.500"	4	6"
5-1/2"	64	.500"	4	8"
5-1/2"	80	.500"	4	10"
5-1/2"	96	.500"	4	12"
6"	32	.500"	4	4"
6"	48	.500"	4	6"
6"	64	.500"	4	8"
6"	80	.500"	4	10"
6"	96	.500"	4	12"
6-1/2"	32	.500"	4	4"
6-1/2"	48	.500"	4	6"
6-1/2"	64	.500"	4	8"
6-1/2"	80	.500"	4	10"
6-1/2"	96	.500"	4	12"
8"	32	.500"	4	4"
8"	48	.500"	4	6"
8"	64	.500"	4	8"
8"	80	.500"	4	10"
8"	96	.500"	4	12"

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Whisper Quiet I Moulder Heads

6 Wing Head

The Whisper Quiet Moulder Head is the equivalent to a six (6) knife head. It has 12 rows of staggered teeth. Please specify the hook angle when ordering. Standard hook angle is either 20° (soft wood) or 10° (hard wood).

Head Diameter	Teeth	Cutting Width per Tooth	Wings	Cutting Width
5-1/2"	72	.330"	6	4"
5-1/2"	108	.330"	6	6"
5-1/2"	144	.330"	6	8"
5-1/2"	180	.330"	6	10"
5-1/2"	216	.330"	6	12"
6"	72	.330"	6	4"
6"	108	.330"	6	6"
6"	144	.330"	6	8"
6"	180	.330"	6	10"
6"	216	.330"	6	12"
6-1/2"	72	.330"	6	4"
6-1/2"	108	.330"	6	6"
6-1/2"	144	.330"	6	8"
6-1/2"	180	.330"	6	10"
6-1/2"	216	.330"	6	12"
8"	72	.330"	6	4"
8"	108	.330"	6	6"
8"	144	.330"	6	8"
8"	180	.330"	6	10"
8"	216	.330"	6	12"

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Whisper Quiet II Moulder Heads

A

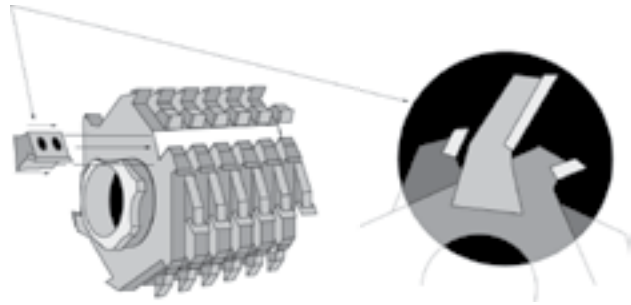
4 Wing Head

The Whisper Quiet Moulder Head is the equivalent to a four (4) knife head. It has 8 rows of staggered teeth. Please specify the hook angle when ordering. Standard hook angle is either 20° (soft wood) or 10° (hard wood). The Whisper Quiet II has 4 dovetail slots milled into the head to receive the insert cutters.

B

C

D



The Whisper Quiet II allows for the insertion of special adjustable inserts to produce plow cuts as well as profiles, shaping and molding simultaneously.

E

F

G

H

I

J

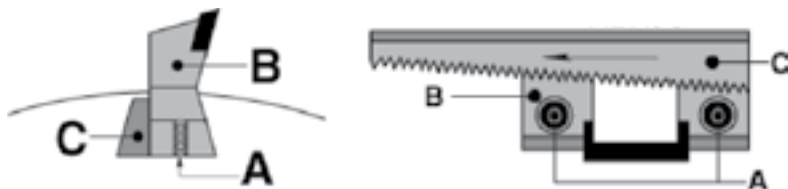
K

Head Diameter	Teeth	Cutting Width per Tooth	Wings	Cutting Width
5"	32	.500"	4	4"
5"	48	.500"	4	6"
5"	64	.500"	4	8"
5"	80	.500"	4	10"
5"	96	.500"	4	12"
5-1/2"	32	.500"	4	4"
5-1/2"	48	.500"	4	6"
5-1/2"	64	.500"	4	8"
5-1/2"	80	.500"	4	10"
5-1/2"	96	.500"	4	12"
6"	32	.500"	4	4"
6"	48	.500"	4	6"
6"	64	.500"	4	8"
6"	80	.500"	4	10"
6"	96	.500"	4	12"
6-1/2"	32	.500"	4	4"
6-1/2"	48	.500"	4	6"
6-1/2"	64	.500"	4	8"
6-1/2"	80	.500"	4	10"
6-1/2"	96	.500"	4	12"
8"	32	.500"	4	4"
8"	48	.500"	4	6"
8"	64	.500"	4	8"
8"	80	.500"	4	10"
8"	96	.500"	4	12"

WQII Insert Cutters

To Adjust:

1. Loosen allen screws "A".
2. Locate serrations of "B" into serrations of "C" as desired. (Adjusts up or down in .008" increments per serration.)
3. Locate insert cutters in moulder head slot.
4. Tighten allen screws "A".

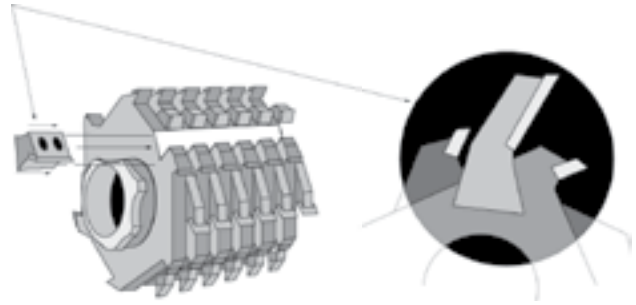


Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Whisper Quiet II Moulder Heads

6 Wing Head

The Whisper Quiet Moulder Head is the equivalent to a six knife head. It has 12 rows of staggered teeth. Please specify the hook angle when ordering. Standard hook angle is either 20° (soft wood) or 10° (hard wood). The Whisper Quiet II has 4 dovetail slots milled into the head to receive the insert cutters.



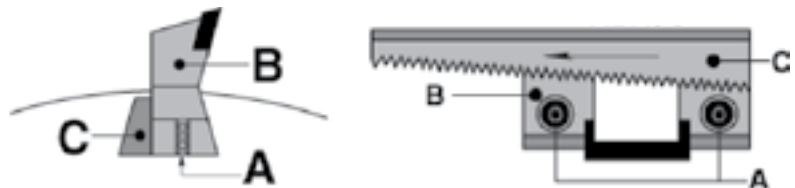
The Whisper Quiet II allows for the insertion of special adjustable inserts to produce plow cuts as well as profiles, shaping and molding simultaneously.

Head Diameter	Teeth	Cutting Width per Tooth	Wings	Cutting Width
5-1/2"	72	.330"	6	4"
5-1/2"	108	.330"	6	6"
5-1/2"	144	.330"	6	8"
5-1/2"	180	.330"	6	10"
5-1/2"	216	.330"	6	12"
6"	72	.330"	6	4"
6"	108	.330"	6	6"
6"	144	.330"	6	8"
6"	180	.330"	6	10"
6"	216	.330"	6	12"
6-1/2"	72	.330"	6	4"
6-1/2"	108	.330"	6	6"
6-1/2"	144	.330"	6	8"
6-1/2"	180	.330"	6	10"
6-1/2"	216	.330"	6	12"
8"	72	.330"	6	4"
8"	108	.330"	6	6"
8"	144	.330"	6	8"
8"	180	.330"	6	10"
8"	216	.330"	6	12"

WQII Insert Cutters

To Adjust:

1. Loosen allen screws "A".
2. Locate serrations of "B" into serrations of "C" as desired. (Adjusts up or down in .008" increments per serration.)
3. Locate insert cutters in moulder head slot.
4. Tighten allen screws "A".



Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Straight Cutter Heads



15° hook angle is standard on all straight cutter heads.

Applications

- Used on shapers, moulders, tenon machines, etc
- Select carbide grade for your specific application

Advantages

- Additional diameter, bores and kerfs available
- Standard tools have carbide ground flush on sides
- Economically priced; available in 3,4, or 6 wings

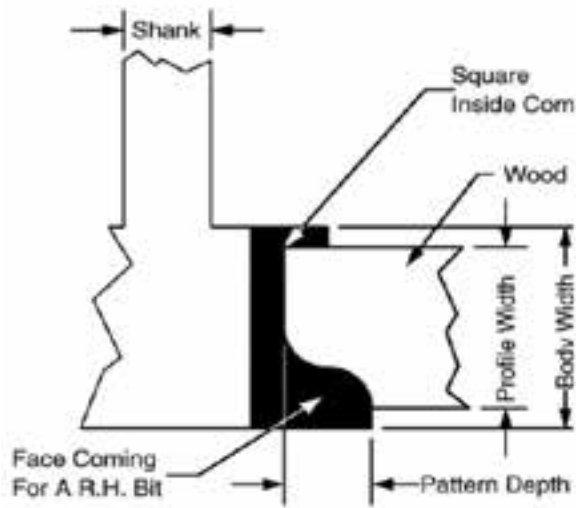
Diameter	Wings			Cutting Widths						
	3	4	6	1.00 "	1.50"	2.00"	2.50"	3.00"	3.50"	4.00"
3"	✓	✓		✓	✓	✓	✓	✓	✓	✓
4"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Optional Items for Straight Cutter Heads

5/32" Thick Carbide	Mounting Holes (qty. 1-6)	Add Hydro Bore to Heads up to 5"
Bores Over 2.125 (2-1/8")	Mounting Holes (qty. 7+)	Add Hydro Bore to Heads >5"
Cone Bore	Set Screw Mounting	Add Grease Fitting & Release to O.D.
Face Shear Both Directions	Shim Stock	NP552 - High Pressure Grease Gun
Face Shear One Direction	Sleeve Bore	NP553 - High Pressure Hose
Hubs and Trepans (up to 1 inch)	TC-4 (Tantung, Crobalt)	NP554 - Hydraulic Connector
Hubs and Trepans (over 1 inch)	Top Bevel Both Directions	NP555 - Grease Cartridge
Keyways	Top Bevel One Direction	

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Brazed Profile Router Bits



Router Bit Diameter up to 3"

Body Width	Flutes		
	1 & 2	3 & 4	2+2
.188"-4"	✓	✓	✓

Body Width	Pattern Depth					Flutes		
	0.25"	0.50"	0.75"	1.00"	1.25	1 & 2	3	4
.50"	✓	✓	✓	✓	✓	✓	✓	✓
.75"	✓	✓	✓	✓	✓	✓	✓	✓
1.00"	✓	✓	✓	✓	✓	✓	✓	✓
1.50"	✓	✓	✓	✓	✓	✓	✓	✓
2.00"	✓	✓	✓	✓	✓	✓	✓	✓
2.50"	✓	✓	✓	✓	✓	✓	✓	✓
3.00"	✓	✓	✓	✓	✓	✓	✓	✓
3.50"	✓	✓	✓	✓	✓	✓	✓	✓
4.00"	✓	✓	✓	✓	✓	✓	✓	✓

Optional Items for Brazed Profile Router Bits

Alternating Shear

Bearing, Drilled and Tapped

Bits with Boring Point

Drill Ream and Set Screw

Face Shear in One Direction or ATB

Mill A Flat on Shank of Router Bit

Multi-Piece Units (2 or more pieces)

TC-4 (Tantung, Crobalt)

If Overall Length of Router Bit is:

3" or less: No Additional Charge

3.1" to 4.5": Additional Charge

4.6" or Greater: Additional Charge

If Large Diameter of Router Bit is:

3" or Less: No Additional Charge

3.1" or More: Additional Charge

Note: Sizes depicted in this catalog are only representative of our product line. Additional sizes available upon special quotation only.

Mill-to-Pattern Profile Cutter Heads

A

B

C

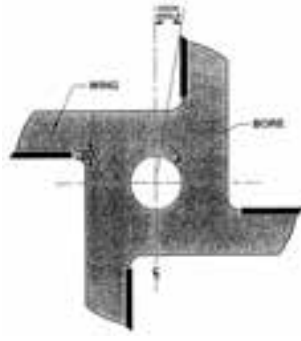
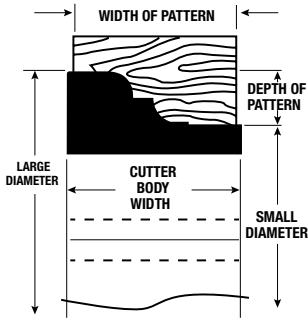
D

E

F

G

H



Provide rotation direction and pattern sketch (see page 5) when ordering.

Applications

- Used on shapers, moulders, tenon machines, CNC routers, router tables, etc

Advantages

- Tool diameter, wings, bore and pattern are all designed to fit customer requirements
- Laser cut grinding template for accuracy and repeatability of pattern
- Multi-piece units are available to maintain critical dimensions of the profile

Technical Information

- CNC machined cutter bodies
- Computer generated profiles for accuracy

I

J

K

Wings

Diameter Range	Body Width Range	Pattern Depth	2	3	4	6	8	10
3.00"– 4.00"	.188"– 2.00"	0.25"– 2.00"	✓	✓	✓	✓		
4.10"– 5.00"	.188"– 3.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	
5.10"– 6.50"	.188"– 6.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	✓
6.51"– 7.00"	.188"– 6.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	✓
7.10"– 8.00"	.188"– 6.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	✓
8.10"– 9.00"	.188"– 6.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	✓
9.10"– 10.00"	.188"– 6.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	✓
10.10"– 12.00"	.188"– 6.00"	0.25"– 2.00"	✓	✓	✓	✓	✓	✓

Optional Items for Mill-to-Pattern Heads

5/32" Thick Carbide

Bores Over 2.125 (2-1/8")

Cone Bore

Dual Hook Angles In One Cutter Head

Face Shear Both Directions

Face Shear One Direction

Hubs and Trepan (up to 1 inch)

Hubs and Trepan (over 1 inch)

Keyways

Mounting Holes (qty. 1-6)

Mounting Holes (qty. 7+)

Set Screw Mounting

Shim Stock

Sleeve Bore

TC-4 (Tantung, Crobalt)

NP552 - High Pressure Grease Gun

NP553 - High Pressure Hose

NP554 - Hydraulic Connector

NP555 - Grease Cartridge

Plastic Checking Templates

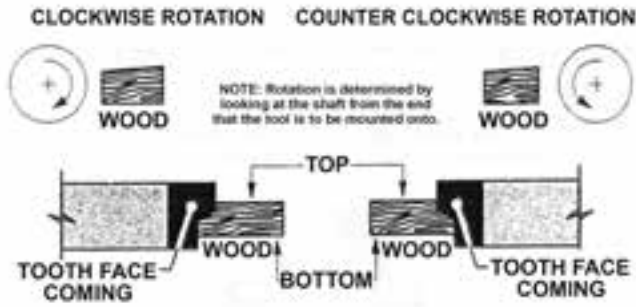
Steel Checking Templates

Product Description Product Material

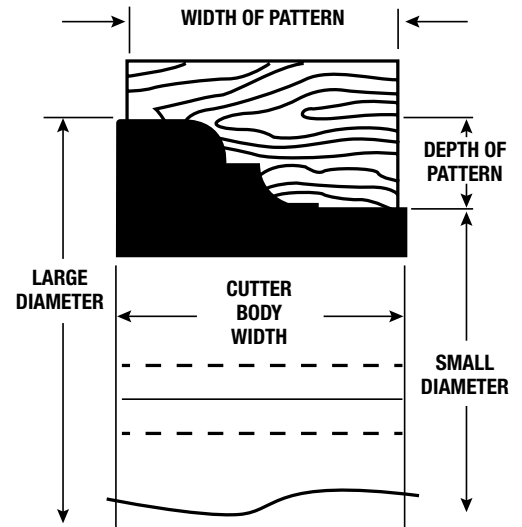
Grinding Template for Plexiglass

Grinding Template for Saw Steel

Mill-to-Pattern (MTP) Router Bits Sketch



Remember: When ordering a MTP tool, it is important to indicate the proper rotation of the tool. You must also indicate the top or bottom of the material. A sketch of the tool in a face coming position is also required. Please note if the tool is conventional or climb cutting.



Sketch your router pattern here:

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K