

# THINBIT®



## New Products & Promotions



**Proudly Made  
in the U.S.A.**

**Kaiser Tool Company, Inc. | 888-THINBIT | 888-THINFAX**

Promotions effective through December 30, 2021

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# THINBIT<sup>®</sup>

## Square Angled Toolholders



**THINBIT<sup>®</sup>**, by Kaiser Tool Company, presents new Angled Toolholders. Designed for CNC, conventional and end working position on Swiss screw machines.

The angled toolholders position the insert at 30°, 45° or 60° angles for reliefs, undercuts and angled OD and face grooves. Toolholders are available in square shank sizes of 3/8", 1/2", 5/8", 3/4" and 1".

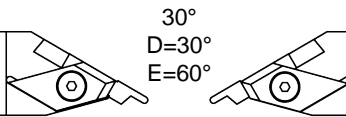
The angled toolholders are for use with **THINBIT<sup>®</sup>** inserts in grades for ferrous and non-ferrous materials. Inserts are available in sizes from .004" to .150" in .001" increments coated with TiN, TiAlN, TiCN, diamond film or uncoated. See pages 2-9 & 2-10 in the 2018 **THINBIT<sup>®</sup>** catalog.

Modifications can be provided on any of our tooling. Due to the potential complexity of configuring these toolholders, we recommend calling for assistance.

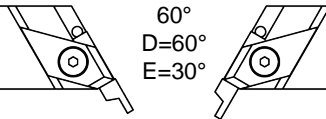
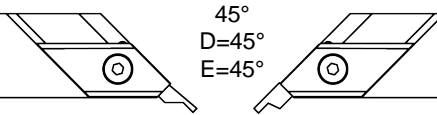
D = Insert angle when toolholder centerline is parallel to part centerline.  
 E = Insert angle when toolholder centerline is perpendicular to part centerline.

Left Hand Holders

Right Hand Holders



Custom inserts are required for internal grooving.



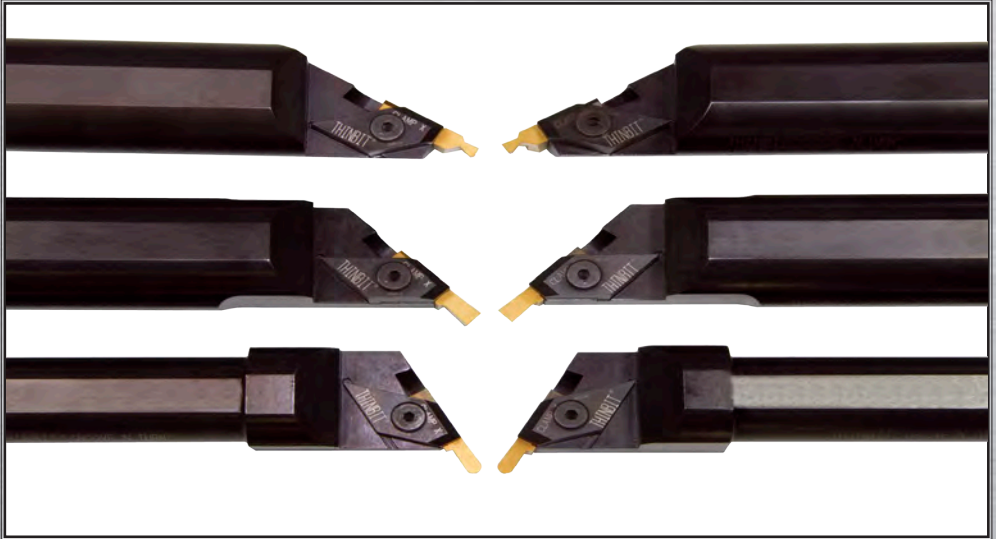
Shank Dimension			Angle "D"	Toolholder package Includes Shank, Clamp & Hardware  For inserts beginning with "L"	Clamp	Angle "E"	Toolholder package Includes Shank, Clamp & Hardware  For inserts beginning with "L"	Replacement Parts			
"A" Height	"B" Width	"C" Length						Right Hand Shank	Left Hand Shank	Clamp	Screw
.375"	.750"	4.840"	30°	L303438R	Clamp Y	60°	L303438L	Clamp X			
.500"				L303412R			L303412L				
.625"				L303458R			L303458L				
.750"				L303434R			L303434L				
1.000"				L300101R			L300101L				
.375"	.750"	4.840"	45°	L453438R	Clamp Q	45°	L453438L	Clamp R	S3808	W1005	P305
.500"				L453412R			L453412L				
.625"				L453458R			L453458L				
.750"				L453434R			L453434L				
1.000"				L450101R			L303438L				
.375"	.750"	4.840"	60°	L303438R	Clamp Y	30°	L303438L	Clamp X			
.500"				L303412R			L303412L				
.625"				L303458R			L303458L				
.750"				L303434R			L303434L				
1.000"				L300101R			L300101L				

Right Hand Use with left hand and centered inserts for Counter-Clock wise rotation

Left Hand use with right hand and centered inserts for clockwise rotation

# THINBIT<sup>®</sup>

## Round Angled Toolholders



**THINBIT<sup>®</sup>**, by Kaiser Tool Company, presents new Angled Toolholders. Designed for CNC, conventional and end working position on Swiss screw machines.

The angled toolholders position the insert at 30°, 45° or 60° angles for reliefs, undercuts and angled OD and face grooves. Toolholders are available in round shank sizes of 1/2", 5/8", 3/4", 1", 20 mm and 25 mm diameters.

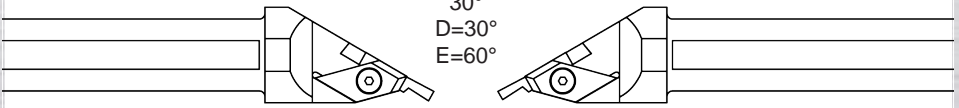
The angled toolholders are for use with **THINBIT<sup>®</sup>** inserts in grades for ferrous and non-ferrous materials. Inserts are available in sizes from .004" to .150" in .001" increments coated with TiN, TiAlN, TiCN, diamond film or uncoated. See pages 2-9 & 2-10 in the 2018 **THINBIT<sup>®</sup>** catalog.

Modifications can be provided on any of our tooling. Due to the potential complexity of configuring these toolholders, we recommend calling for assistance.

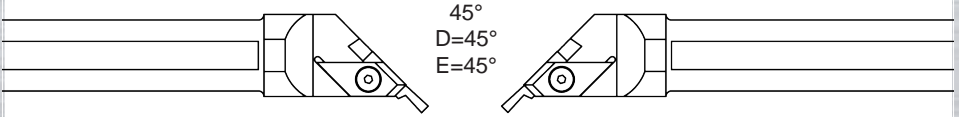
D = Insert angle when toolholder centerline is parallel to part centerline.  
 E = Insert angle when toolholder centerline is perpendicular to part centerline.

Left Hand Holders

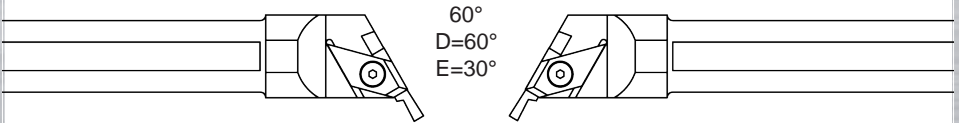
Right Hand Holders



Custom inserts are required for internal grooving.



1.125 Minimum bore required for internal grooving.

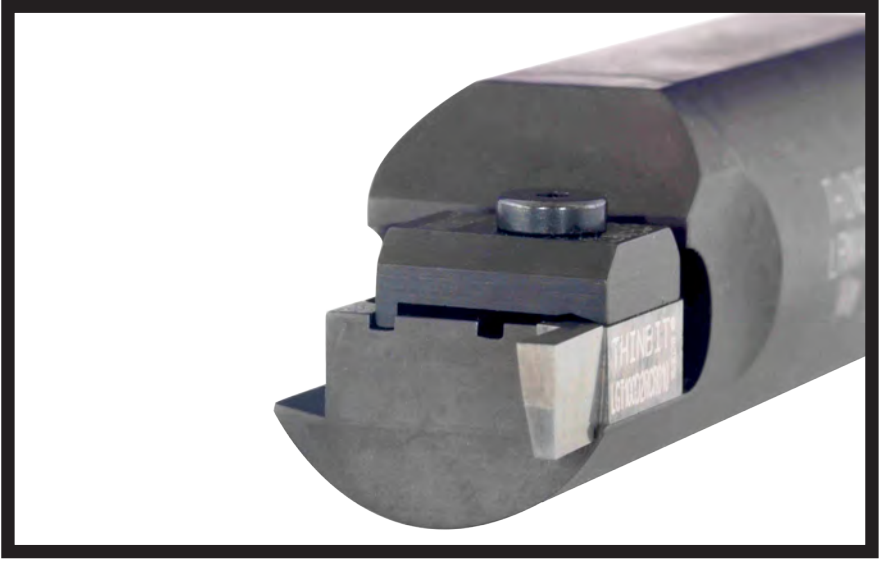


1.170 Minimum bore required for internal grooving.

Orientation	Size	30°	45°	60°	Length	Clamp	Hardware	
Left Hand Use with "L" series Inserts.  Call for assistance.	.500"	LR3012L	LR4512L	LR6012L	5"	Clamp X	Screw: S3808	
	.625"	LR3058L	LR4558L	LR6058L				
	.750"	LR3034L	LR4534L	LR6034L				
	1.00"	LR3001L	LR4501L	LR6001L				
	20mm	LR3020LM	LR4520LM	LR6020LM				
	25mm	LR3025LM	LR4525LM	LR6025LM				
Right Hand Use with "L" series Inserts.  Call for assistance.	.500"	LR3012R	LR4512R	LR6012R		5"	Clamp Y	Wrench: W1005  Pin: P0305
	.625"	LR3058R	LR4558R	LR6058R				
	.750"	LR3034R	LR4534R	LR6034R				
	1.00"	LR3001R	LR4501R	LR6001R				
	20mm	LR3020RM	LR4520RM	LR6020RM				
	25mm	LR3025RM	LR4525RM	LR6025RM				

# THINBIT®

## Heavy Duty Round Reversible Toolholder



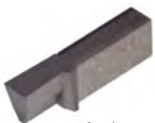
**THINBIT®**, manufactured by Kaiser Tool Company Inc., introduces a new toolholder option that takes advantage of the full line of inserts for grooving, threading, face grooving and custom applications. The heavy duty round reversible toolholder presents an insert parallel to the centerline of the shank and can be used as either right or left hand. Compatible with CNC, Swiss and conventional machines, this design improves rigidity and increases cutting performance. Shanks are available in common standard and metric sizes.

### Grooving



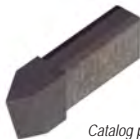
Catalog page:  
1-9

### Face Grooving



Catalog page:  
2-9

### Threading



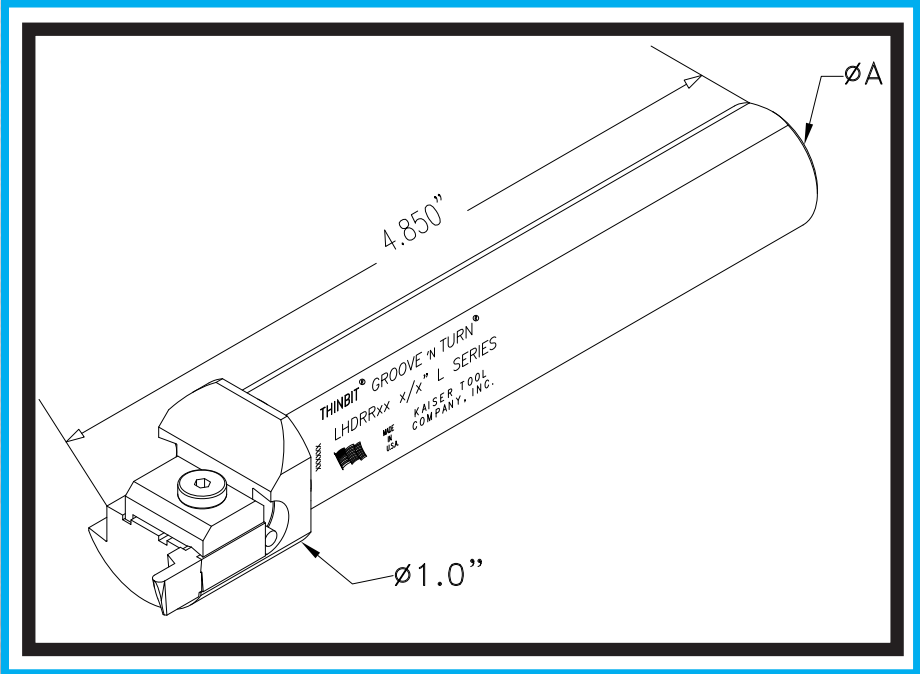
Catalog page:  
4-9

### Parting



Catalog page:  
5-3

# THINBIT®



Shank Orientation	Shank Dimensions "A"	Toolholder Package (Includes Shank, head, clamp and hardware)	Clamp	Clamp Hardware
<b>Right Hand or Left Hand</b> Use as right hand with right hand inserts Use as left hand with left hand inserts Use as either hand with centered inserts	12 mm	LHD R R 12 M	Clamp C	Screw: S3808 Wrench: W1005 Pin: P0305
	1/2"	LHD R R 12		
	5/8"	LHD R R 58		
	16 mm	LHD R R 16 M		
	3/4"	LHD R R 34		
	20 mm	LHD R R 20 M		
	22 mm	LHD R R 22 M		
	25 mm	LHD R R 25 M		
1"	LHD R R 01			

# THINBIT<sup>®</sup>

## Mill A Groove<sup>®</sup> trepanning tool by THINBIT<sup>®</sup>

- **FASTER**
- **MORE OPTIONS**
- **LESS EXPENSIVE**
- **LASTS LONGER**

MILL A  
GROOVE<sup>®</sup>

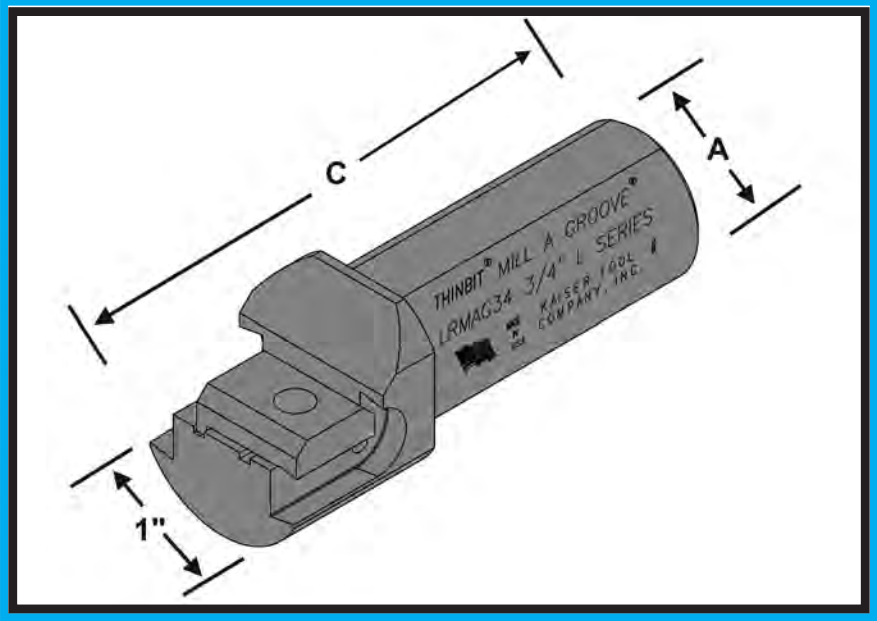
THINBIT<sup>®</sup>, from Kaiser Tool Company, presents the Mill A Groove<sup>®</sup> line for trepanning on a CNC or conventional milling machine.

The tool enables machining groove diameters that are concentric to the spindle rotation and not the table movement and eliminates secondary lathe operations for face grooving.

The insert does not rotate about its own center, so the groove can be symmetrical or asymmetrical. One insert can make convex and concave radius grooves, chamfered edges, angles and special profiles.



# THINBIT®



Inserts available (.004" through .150") in .001" increments.  
 (See pages 2-9 & 2-10 in the 2018 THINBIT® catalog)

Shank Orientation	Shank Dimensions "A"	Toolholder Package (Includes Shank, head, clamp and hardware)	Overall Length "C"	Clamp	Clamp Hardware
<b>Right Hand or Left Hand</b>	.500" Ø X 1.50" long	LRMAG12	2.35"	Clamp C	Screw: S2808  Wrench: W1009  Pin: P0305
	.625" Ø X 1.63" long	LRMAG58	2.48"		
	.750" Ø X 1.63" long	LRMAG34	2.48"		
	.787" Ø X 1.63" long	LRMAG20M	2.48"		
	.984" Ø X 1.92" long	LRMAG25M	2.77"		
	1.00" Ø X 1.92" long	LRMAG01	2.77"		
Use as right hand with right hand inserts					
Use as left hand with left hand inserts					
Use as either hand with centered inserts					

# Prom

## OFFER #1

Mix or Match any 10  
**GROOVE 'N TURN®** Carbide Inserts  
at our discounted 50 piece price!

# GROOVE 'N TURN®

Grooving



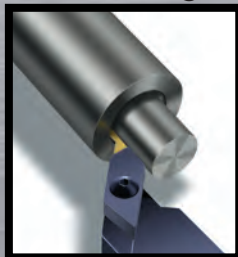
Pg. 1-9

Threading



Pg. 4-9

Face  
Grooving



Pg. 2-9

Parting



Pg. 5-3

*Page Numbers reference 2018 catalog*

*US Patent #6,688,816 & 6,824,333*

[WWW.THINBIT.COM/promotions](http://WWW.THINBIT.COM/promotions)

Valid through December 30, 2021 and may not be combined with any other promotional offer. Limit 2 offers per order.

# otions

## OFFER #2

Receive **FREE SHIPPING**  
with a purchase of  
**\$250** or more!



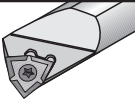
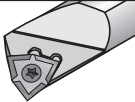
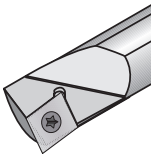


(Standard UPS Ground Only)

[WWW.THINBIT.COM/promotions](http://WWW.THINBIT.COM/promotions)

Valid through December 30, 2021 and may not be combined with any other promotional offer.

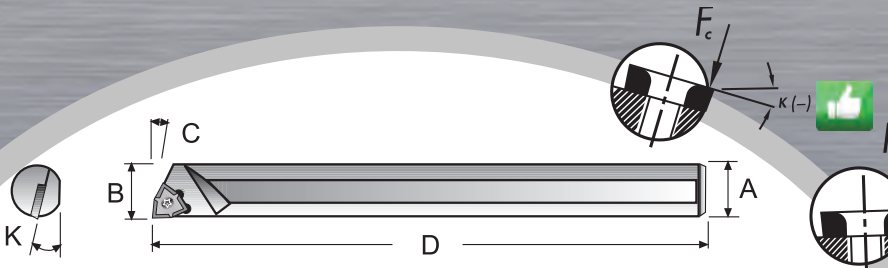
# MINI-BORE®

## BAR SPECIFICATIONS

Right Hand Boring Bar Style	Minimum Bore 'B' with .007" Radius Insert	Material/ Price Extension Ratios Steel 4 x Ø Carbide 8 x Ø	Bar Diameter  'A'	Length  'D'	Lead Angle  'C'	'K' Angle  'K'
	.210"	<b>Carbide \$225</b>	.187"	4.474"	3°	17°
	.210"		<b>Steel \$165</b>	.187"	3.500"	3°
	.270"			.250"	4.000"	3°
	.270"	<b>Steel \$165</b>	.250"	4.000"	3°	15°
		<b>Carbide \$255</b>	.250"	6.488"	3°	15°
	.180"	<b>Steel \$165</b>	.187"	2.500"	7°	17°
		<b>Carbide \$240</b>	.156"	4.477"	7°	17°
	.220"	<b>Carbide \$240</b>	.187"	4.477"	5°	17°
	.230"	<b>Steel \$165</b>	.187"	3.500"	5°	17°
	.280"	<b>Steel \$165</b>	.250"	4.000"	5°	12°
		<b>Carbide \$240</b>	.250"	6.504"	5°	12°
	.270"	<b>Steel \$165</b>	.187"	3.500"	5°	17°
	.300"	<b>Carbide \$255</b>	.250"	6.488"	5°	12°
	.430"	<b>Steel \$175</b>	.375"	5.500"	0°	8°
	.560"		.500"	6.000"	5°	2°

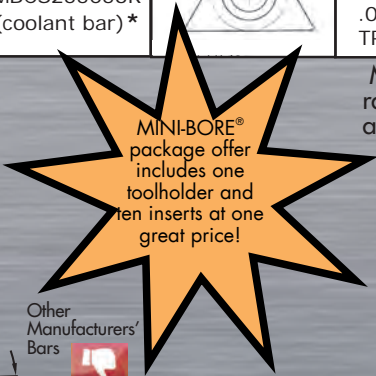
Valid through December 30, 2021 while supplies last.

Kaiser Tool Company reserves the right to limit, modify or cancel any promotional offer.



# Promotion

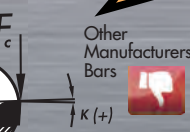
		INSERT SPECIFICATIONS					
Boring Bar	Insert Style	Corner Radius	DURA-MAX® 3000/4000 CARBIDE For Steel & Interrupted Cutting	DURA-MAX® 5000 CARBIDE For Aluminum & Non-ferrous	Coating		
MBEC131821R		.004"	MBEIW04D4_	MBEIW04D5_	Uncoated add 'U'  TiN add 'C'  TiAIN add 'E'		
MBES131821R		.008"	MBEIW08D4_	MBEIW08D5_			
MBES132527R		.015"	MBEIW15D4_	MBEIW15D5_			
MBFS132527R		.004"	MBFIW04D4_	MBFIW04D5_			
MBFC132527R		.008"	MBFIW08D4_	MBFIW08D5_			
		.015"	MBFIW15D4_	MBFIW15D5_			
MBAS171818R		.002" CDCD	MBAIZ02D4_	MBAIZ02D5_			
MBAC171518R		.007" CDCH	MBAIW07D4_	MBAIW07D5_			
MBAC151822R			.015" CDCH	MBAIW15D4_		MBAIW15D5_	
MBAS151823R				.002" TDAB		MBBIZ02D3_	MBBIZ02D5_
MBAS152528R						.015" TDCH	MBBIW15D4_
MBAC152528R		.002" TDAB	MBBIZ02D3_	MBBIZ02D5_			
MBBS151827R		.015" TDCH	MBBIW15D4_	MBBIW15D5_			
MBBC152530R				.002" TPCB		MBCIZ02D3_	MBCIZ02D5_
MBCS103743R	.015" TPCH	MBCIW15D4_		MBCIW15D5_			
MBCS255056R (coolant bar)*		.031" TPCH		MBCIW31D3_	MBCIW31D5_		



MINI-BORE® bars are designed with a negative cutting rake or 'K' angle. This unique design provides critical advantages:

- Greater cross-sectional area under the cutting edge which increases the strength and rigidity of the pocket.
- Increased screw thread engagement to reduce thread stripping and increase insert holding power.
- Better surface finishes due to better chip control and flow.

\*While supplies last.



# THINBIT<sup>®</sup> by

*Serving your cutting tool needs for 57 years!*



## THINBIT

The New Small Groove Grooving Tool

Cuts groove sizes as small as .010 wide to as large as .050 wide. Any size bit, from .010 to .050 available in increments of .001". The solution for cutting sized snapping, o-ring, etc. grooves.



Uses holders with square shank sizes of 3/8", 5/16", and 1/4". (Shank sizes approximate stand- and tool bit sizes).

## THINBIT advantages...

1. Lowers cost—special grinds of small tools are expensive.
2. Exact width size within .001".
3. Very accurate cuts, grooves are within .0002" of bit size.
4. Walls and bottoms of cuts are clean and square.
5. Bits, or sizes, changed in less than one minute.
6. Rectangular shape of bit is square to teeth—makes it easy to hold for customer's own shape changes.
7. All sizes have some basic perimeter dimensions—makes it easy to build, stock, or gang tools.



## THINBIT DATA

1. A given size is nominal plus .0009".
2. All top rakes are zero. Top rake can be easily changed as necessary.
3. All Thinbits are made of high speed steel.
4. All sizes have some basic perimeter dimensions. Thickness of bit varies according to size.
5. Front rake is 15 degrees.
6. Side rake is 2 1/2 degrees.
7. Depth of cut — from .010 to .032", three times width of cut from .033 to .040"; two and one-half times width of cut from .041 to .050"; two times width of cut
8. Thinbit shape—square.



(Pictures show use in hand screw machine and in engine lathes. However, square shank tool holder may be used in nearly any type of work-driven machine).



Any one size from .010 to .050 incl.	INSERTS—Price Each In Quantities of:		
	1-4	5-10	11-30
	\$1.50	\$1.35	\$1.25
One Complete Set of Thinbit Inserts—.010" thru .050" in .001" increments (41 inserts)	\$48.50		

TOOLHOLDERS—Price Each	
	\$22.50
Available in square shank sizes of 3/8", 5/16" and 1/4".	
All Prices Are Postpaid	

PAT. PENDING

## KAISER TOOL COMPANY

2915 WEISSER PARK AVENUE • FORT WAYNE, INDIANA 46806

PHONE 219/745-5500

# Kaiser Tool Company, Inc.

## *Since 1964*



Kaiser Tool Company, Inc.  
2915 Weisser Park Avenue  
Fort Wayne, IN  
1964 - 1980



Kaiser Tool Company, Inc.  
701 Sherman Boulevard  
Fort Wayne, IN  
1980 - 1994

**MADE IN<sup>®</sup>**  
**THE USA?**  
**DAMN RIGHT.**



Kaiser Tool Company, Inc.  
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Fort Wayne, IN 46808  
1994 - 2(Present)

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Fort Wayne IN 46808