



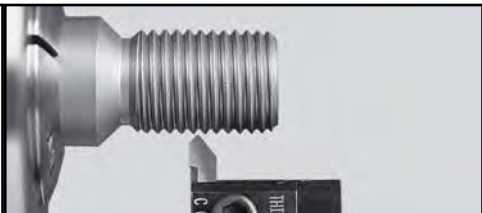





PRODUCT SELECTION GUIDE - THREADING & CHAMFERING

THREADING

PAGE 4-3		<ul style="list-style-type: none"> • 60° Profile for internal diameters of .077" and larger • 4 Threads per inch and greater • Solid carbide shanks in 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" diameter 		
PAGE 4-5		<ul style="list-style-type: none"> • ACME profile • For internal diameters of .187" and larger • 6 Threads per inch and greater 		
PAGE 4-7		<ul style="list-style-type: none"> • 60° Profile for internal diameters of .325" and larger • 9 Threads per inch and greater 		
PAGE 4-9		<ul style="list-style-type: none"> • 60° Profile for external and internal threading • For internal diameters of 1.250" and larger • 8 Threads per inch and greater • Carbide and High Speed Steel 		
PAGE 4-11		<ul style="list-style-type: none"> • ACME Profile for external and internal threading • For internal diameters of 1.250" and larger • 6 Threads per inch and greater • Carbide and High Speed Steel 		
PAGE 4-13		<ul style="list-style-type: none"> • Chamfering inserts for external and internal use • For internal diameters of 1.250" and larger • Carbide and High Speed Steel 		
PAGE 1-13		PAGE 1-7		Threading and Chamfering style inserts to fit these tool systems.



www.thinbit.com/qr4-1

Scan this code for additional information

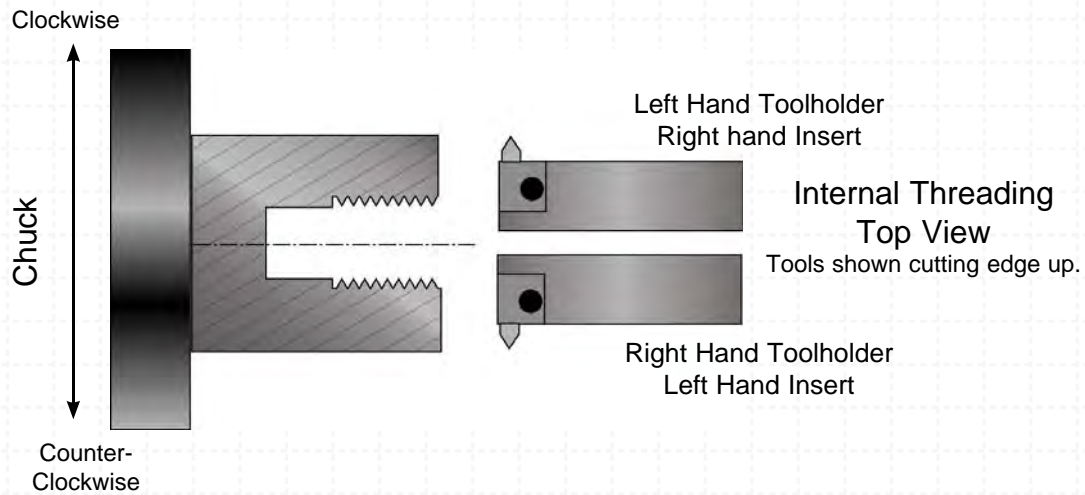
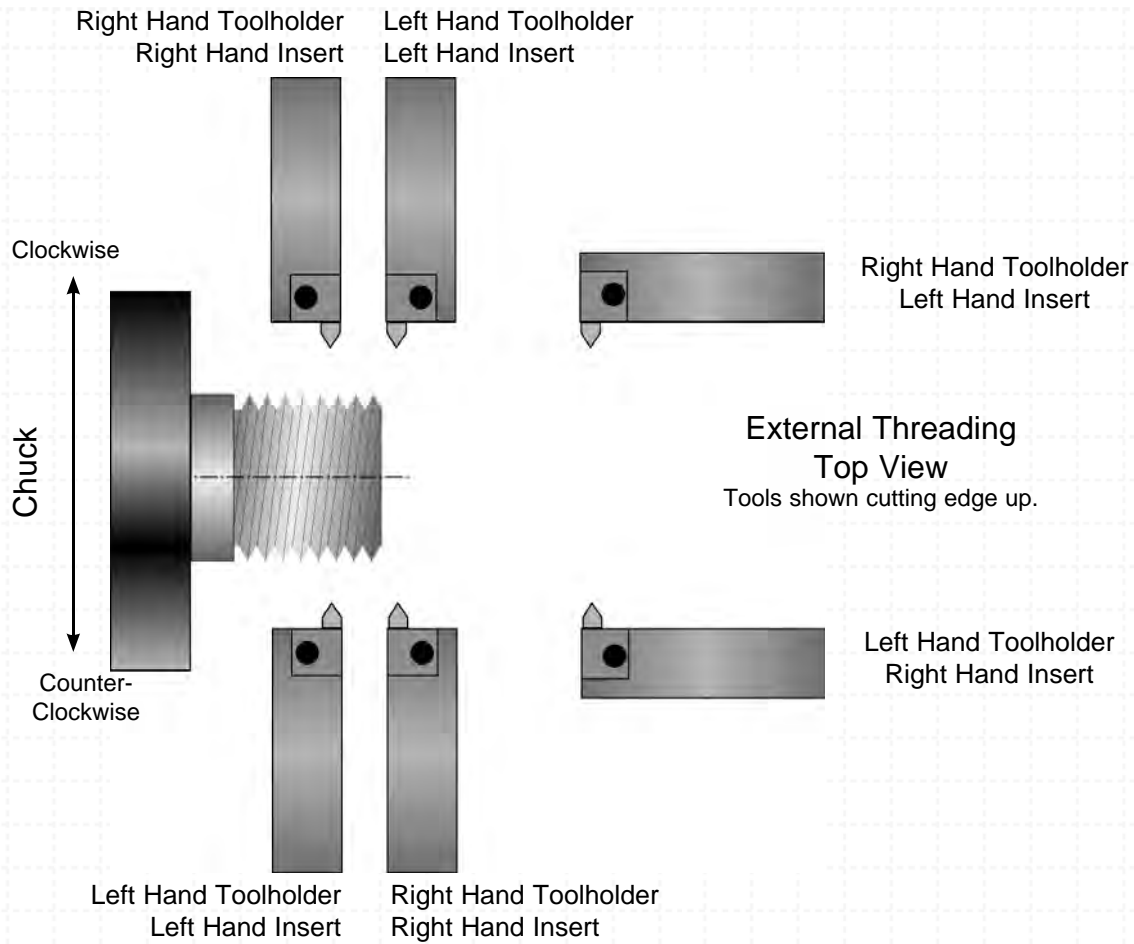


OVER 100,000 TOOLS IN STOCK FOR
GROOVING • THREADING • PARTING • BORING
TURNING • FACE GROOVING

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

TOOLING ORIENTATION GUIDE - THREADING & CHAMFERING

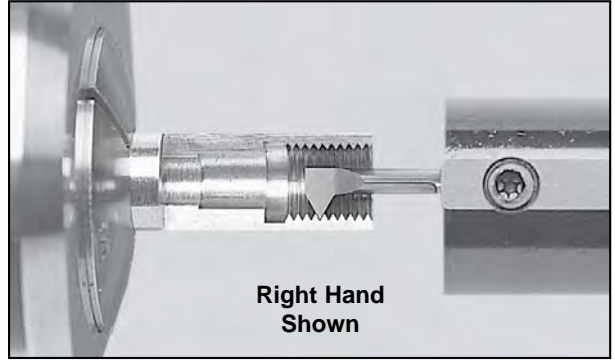


THREADING

KAISER TOOL COMPANY, INC.

PRODUCT INFORMATION

- Internal threading for diameters .077" and larger.
- 4 Threads per inch and greater.
- 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" shank.
- Short neck lengths for greater rigidity; long neck lengths for greater reach.
- Elliptically ground necks for greater strength; round necks to fit into small diameters.
- Sub-micron grain **DURA-MAX® 2000** Carbide.
- Tools can be coated with TiN, TiAlN, TiCN and Diamond coating.



MODIFICATIONS

SEE PAGE
8-3
FOR ADDITIONAL
INFORMATION

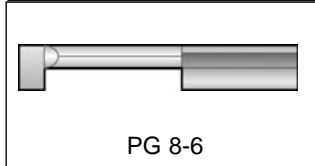
INCLUDED ANGLE (TOP VIEW)



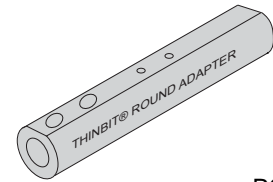
CUSTOM THREADS (TOP VIEW)



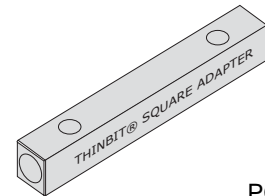
CUSTOM BLANK (TOP VIEW)



ADAPTER STYLES



PG 7-2



PG 7-2

TOOLHOLDER SELECTIONS

TECHNICAL SECTIONS

PRODUCT DEMONSTRATION



www.thinbit.com/qr4-3

SPEEDS AND FEEDS

PG 9-18

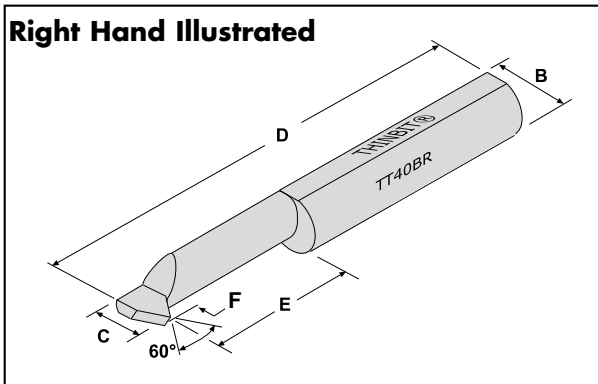
APPLICATION REFERENCE

PG 9-4

TROUBLE SHOOTING

PG 9-7

Right Hand Illustrated



FRONT RAKE: Primary 21°

RADIUS: .002" or .000"

TOP RAKE: 0°

NOTE: Tool designed for feeding into bore only. Right hand tools should be used for right hand internal threads. Left hand tools should be used for left hand internal threads.

Select the **ORDER CODE** in the table on the next page that represents your selection of tool dimensions.

EXAMPLE:

The **ORDER CODE** for a .250" minimum bore, right hand tool for 5 to 56 T.P.I. and .620" tool reach is: TT40BR

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

I.D. THREADING TOOLS

SPECIFICATIONS			ORDER CODE						INFORMATION			
Minimum Bore 'C'	Threads per Inch	Tool Reach 'E'	DURA-MAX® 2000 Carbide <small>See Page 9-18 for Speeds and Feeds information</small>		Coatings <small>See Page 9-6 for Expanded Coating Descriptions</small>				Overall Length 'D'	Projection 'F'	Shank Diameter 'B'	Toolholder Page 7-2 Use Toolholders Beginning With
			Minimum	Right Hand	Left Hand	TiN	TiCN	TiAlN				
.077" Round Neck	40 to 56	.260"	TT20AR	TT20AL	add 'C'	add 'D'	add 'E'	add 'F'	1.385"	.014"	1/8"	'AD'
		.385"	TT21AR	TT21AL					1.385"			
	Over 56	260"	TT20AR1	TT20AL1					1.510"			
		.385"	TT21AR1	TT21AL1					1.510"			
.125"	11 to 56	.300"	TT20BR	TT20BL	add 'C'	add 'D'	add 'E'	add 'F'	1.425"	.050"	1/8"	'AD'
		.425"	TT21BR	TT21BL					1.425"			
	Over 56	.300"	TT20BR1	TT20BL1					1.550"			
		.425"	TT21BR1	TT21BL1					1.550"			
	27 to 56	.265"	TT20CR	TT20CL					1.390"	.020		
		.390"	TT21CR	TT21CL					1.390"			
	Over 56	.265"	TT20CR1	TT20CL1					1.515"			
		.390"	TT21CR1	TT21CL1					1.515"			
.187"	7 to 56	.460"	TT30BR	TT30BL	add 'C'	add 'D'	add 'E'	add 'F'	1.835"	.080	3/16"	'AD'
		.710"	TT31BR	TT31BL					1.835"			
	Over 56	.460"	TT30BR1	TT30BL1					2.085"			
		.710"	TT31BR1	TT31BL1					2.085"			
	16 to 56	.410"	TT30CR	TT30CL					1.785"	.035		
		.660"	TT31CR	TT31CL					1.785"			
	Over 56	.410"	TT30CR1	TT30CL1					2.035"			
		.660"	TT31CR1	TT31CL1					2.035"			
.250"	5 to 56	.620"	TT40BR	TT40BL	add 'C'	add 'D'	add 'E'	add 'F'	2.370"	.110	1/4"	'AD'
		.870"	TT41BR	TT41BL					2.370"			
	Over 56	.620"	TT40BR1	TT40BL1					2.620"			
		.870"	TT41BR1	TT41BL1					2.620"			
	11 to 56	.550"	TT40CR	TT40CL					2.300"	.050		
		.800"	TT41CR	TT41CL					2.300"			
	Over 56	.550"	TT40CR1	TT40CL1					2.550"			
		.800"	TT41CR1	TT41CL1					2.550"			
.313"	4 to 56	.780"	TT50BR	TT50BL	add 'C'	add 'D'	add 'E'	add 'F'	2.280"	.140	5/16"	'AD'
		1.155"	TT51BR	TT51BL					2.280"			
	Over 56	.780"	TT50BR1	TT50BL1					2.655"			
		1.155"	TT51BR1	TT51BL1					2.655"			
	9 to 56	.690"	TT50CR	TT50CL					2.190"	.063		
		1.065"	TT51CR	TT51CL					2.190"			
	Over 56	.690"	TT50CR1	TT50CL1					2.565"			
		1.065"	TT51CR1	TT51CL1					2.565"			
.375"	5 to 56	.870"	TT60CR	TT60CL	add 'C'	add 'D'	add 'E'	add 'F'	2.120"	.110	3/8"	'AD'
		1.370"	TT61CR1	TT61CL					2.120"			
	Over 56	.870"	TT60CR	TT60CL					2.620"			
		1.370"	TT61CR1	TT61CL1					2.620"			
.500"	4 to 56	1.165"	TT80CR	TT80CL	add 'C'	add 'D'	add 'E'	add 'F'	2.415"	.150	1/2"	'AD'
		1.915"	TT81CR	TT81CL					2.415"			
	Over 56	1.165"	TT80CR1	TT80CL1					3.490"			
		1.915"	TT81CR1	TT81CL1					3.490"			

**I.D. TOOLS
THREADING**

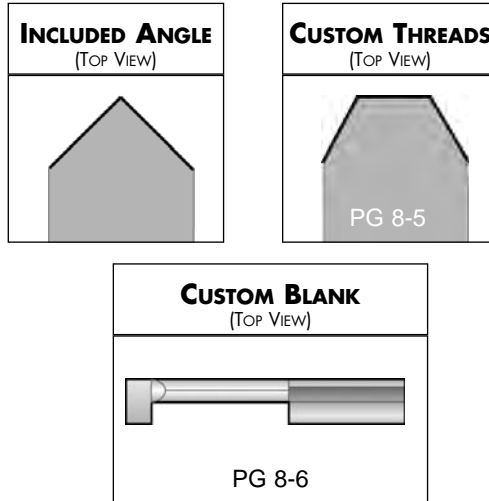
PRODUCT INFORMATION

- Internal ACME threading for diameters .187" and larger.
- 6 Threads per inch and greater.
- 3/16", 1/4", 5/16" and 3/8".
- Short neck lengths for greater rigidity; long neck lengths for greater reach.
- Elliptically ground necks for greater strength; round necks to fit into small diameters.
- Sub-micron grain **DURA-MAX® 2000** Carbide.
- Tools can be coated with TiN, TiAlN, TiCN and Diamond coating.



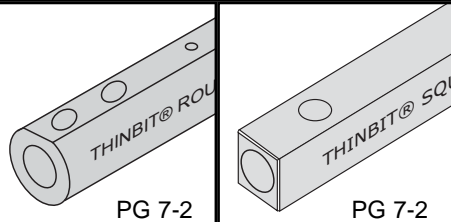
MODIFICATIONS

SEE PAGE
8-3
FOR ADDITIONAL
INFORMATION



TOOLHOLDER SELECTIONS

ADAPTER STYLES



TECHNICAL SECTIONS

PRODUCT DEMONSTRATION



www.thinbit.com/gr4-5

SPEEDS AND FEEDS

PG 9-18

APPLICATION REFERENCE

PG 9-4

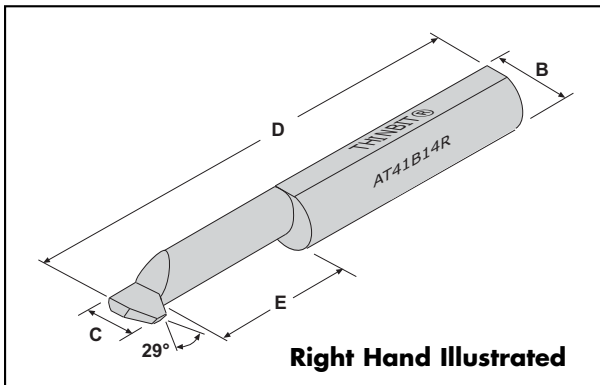
TROUBLE SHOOTING

PG 9-7

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

I.D. ACME THREADING TOOLS



FRONT RAKE: Primary 21°

TOP RAKE: 0°

NOTE: Tool designed for feeding into bore only. Right hand tools should be used for right hand internal threads. Left hand tools should be used for left hand internal threads.

- 29° ACME threading inserts for internal and external applications.
- ACME threading tools can be used to cut other thread profiles by overcutting.
- Single lead

ORDERING INSTRUCTIONS

Select the **ORDER CODE** in the table below that represents your selection of tool dimensions.

EXAMPLE:

The **ORDER CODE** for a .250" minimum bore, right hand tool for 14 or fewer T.P.I. and .750" tool reach is:

AT41B14R

**I.D. ACME
THREADING**

SPECIFICATIONS				ORDER CODE				INFORMATION				
Minimum Bore 'C'	Threads per Inch	Flat at Tip	Tool Reach 'E' Minimum	DURA-MAX® 2000 Carbide See Page 9-18 for Speeds and Feeds information		Coatings See Page 9-6 for Expanded Coating Descriptions Use Uncoated Part Number and Add Coating Code				Overall Length 'D'	Shank Diameter 'B'	Toolholder Page 7-2 Use Toolholders Beginning With
				Right Hand	Left Hand	TiN	TiCN	TiAlN	Diamond			
.187"	16	.021"	.625"	AT31B16R	AT31B16L					2.085"	3/16"	'AD'
.250"	14	.024"	.750"	AT41B14R	AT41B14L					2.620"	1/4"	
.313"	12	.028"	1.000"	AT51B12R	AT51B12L	add 'C'	add 'D'	add 'E'	add 'F'	2.655"	5/16"	
.375"	10	.032"	1.250"	AT61C10R	AT61C10L					2.620"	3/8"	
.375"	6	.057"	1.250"	AT61C06R	AT61C06L					2.620"	3/8"	

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

PRODUCT INFORMATION

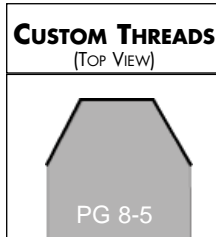
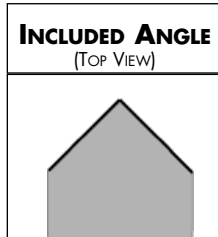
- Internal threading for diameters .325" and larger.
- 9 Threads per inch and greater.
- Sub-micron grain **DURA-MAX® 2000** and **5000** Carbides.
- Inserts available coated with TiN, TiAlN, TiCN and Diamond coating.



Right Hand Toolholder with Left Hand Insert Shown

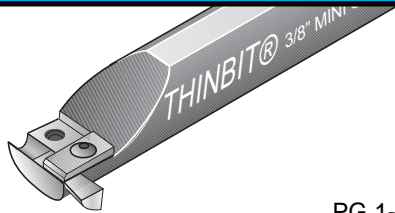
MODIFICATIONS

SEE PAGE
8-3
 FOR ADDITIONAL
 INFORMATION




TOOLHOLDER SELECTION

ROUND STYLES



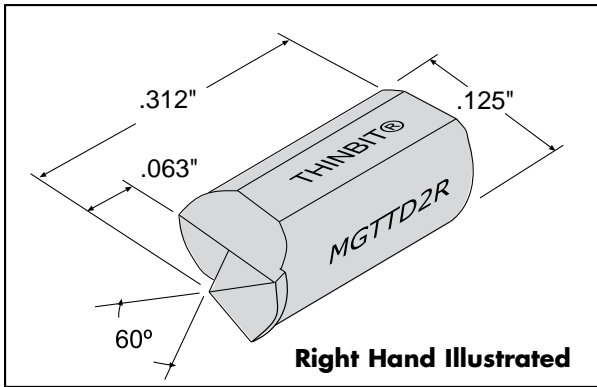
PG 1-6

TECHNICAL SECTIONS

	PRODUCT DEMONSTRATION	SPEEDS AND FEEDS	APPLICATION REFERENCE	TROUBLE SHOOTING
	 www.thinbit.com/qr4-7	PG 9-18	PG 9-4	PG 9-7

KAISER TOOL COMPANY, INC.

I.D. THREADING TOOLS



FRONT RAKE: 15°
 RADIUS: .002" or .000"
 TOP RAKE: 0°

ORDERING INSTRUCTIONS

Select the **ORDER CODE** in the table below that represents your selection of insert specifications.

EXAMPLE:

The **ORDER CODE** for a right hand, 9 to 56 Threads Per Inch **DURA-MAX® 2000** Carbide insert with TiN coating is:
MGTTD2RC

I.D. TOOLS
THREADING

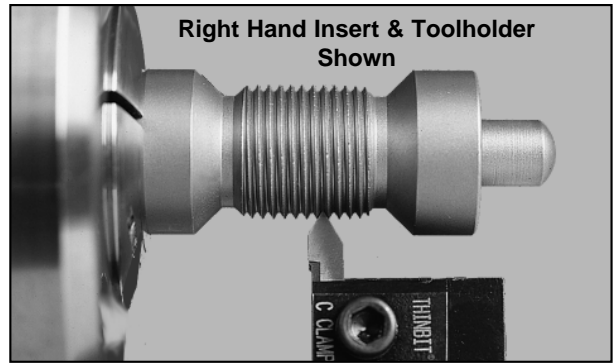
SPECIFICATIONS		ORDER CODE						INFO.
Insert Orientation	Threads per Inch	Insert Grades See Page 9-5 for Expanded Material Descriptions and Page 9-18 for Speeds and Feeds		Coatings See Page 9-6 for Expanded Coating Descriptions				Toolholder Page 1-6 Use Toolholders Beginning With
		DURA-MAX® 2000 Carbide For Steel & Interrupted Cutting	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	Use Uncoated Part Number and Add Coating Code				
				TiN	TiCN	TiAlN	Diamond	
Right Hand	9 to 56	MGTTD2R	MGTTD5R	add 'C'	add 'D'	add 'E'	add 'F'	'MGT'
	Greater than 56	MGTTD2R1	MGTTD5R1					Use left hand holder
Left Hand	9 to 56	MGTTD2L	MGTTD5L	add 'C'	add 'D'	add 'E'	add 'F'	'MGT'
	Greater than 56	MGTTD2L1	MGTTD5L1					Use right hand holder

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
 www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

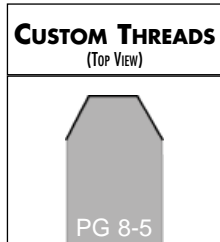
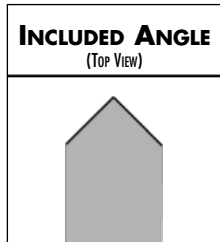
PRODUCT INFORMATION

- External threading within .065" of a shoulder.
- Internal threading with 1.250" minimum bore diameter.
- 8 Threads per inch and greater.
- Sub-micron grain **DURA-MAX® 2000** and **5000** Carbides and High Speed Steel.
- Inserts can be coated with TiN, TiAlN, TiCN and Diamond coating.



MODIFICATIONS

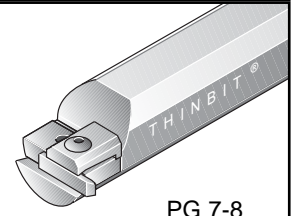
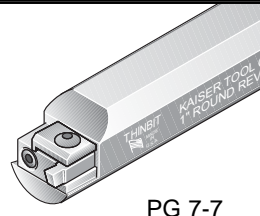
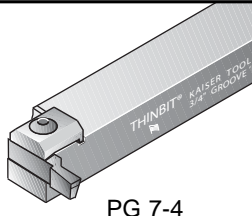
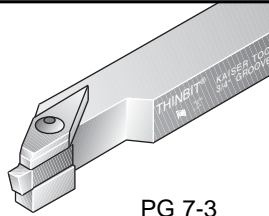
SEE PAGE
8-3
FOR ADDITIONAL
INFORMATION



TOOLHOLDER SELECTIONS

CNC, SWISS, CONVENTIONAL STYLE

ROUND STYLE



TECHNICAL SECTIONS

PRODUCT DEMONSTRATION

SPEEDS AND FEEDS

APPLICATION REFERENCE

TROUBLE SHOOTING



www.thinbit.com/gr4-9

PG 9-18

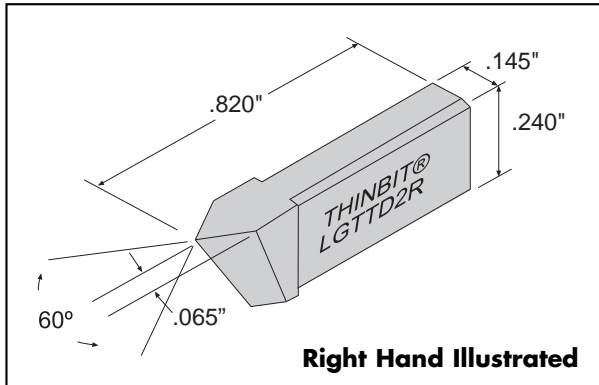
PGS 9-3 & 9-4

PG 9-7

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

THREADING INSERTS



FRONT RAKE: 15°
RADIUS: .002" or .000"
TOP RAKE: 0°

ORDERING INSTRUCTIONS

Select the **ORDER CODE** in the table below that represents your selection of orientation and insert grade.

EXAMPLE:

The **ORDER CODE** for a right hand, 8 to 56 Threads Per Inch threading insert in **DURA-MAX® 2000** is:
LGTTD2R

INSERTS
THREADING

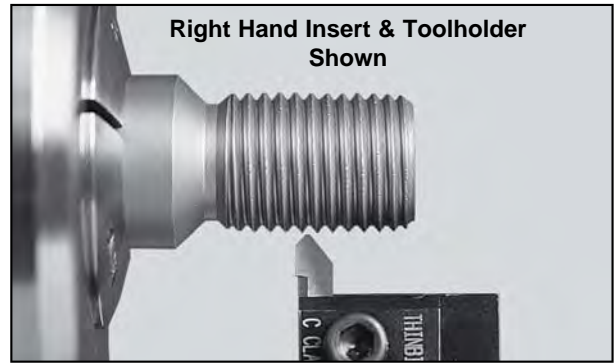
SPECIFICATIONS		ORDER CODE						INFO.	
Insert Orientation	Threads per Inch	Insert Grades See Page 9-5 for expanded material selections and Page 9-18 for Speeds and Feeds information			Coatings See Page 9-6 for Expanded Coating Descriptions				Toolholder Catalog Section 7 Use Toolholders Beginning With
		DURA-MAX® 2000 Carbide For Steel & Interrupted Cutting	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	High Speed Steel	Use Uncoated Part Number and Add Coating Code				
					TiN	TiCN	TiAlN	Diamond	
Right Hand For right hand external threads or left hand internal threads	8 to 56	LGTTD2R	LGTTD5R	LGTTHSR					'L' Use right hand straight holder or left hand 90° holder
	Greater than 56	LGTTD2R1	LGTTD5R1	LGTTHSR1	add 'C'	add 'D'	add 'E'	add 'F'	
Left Hand For left hand external threads or right hand internal threads	8 to 56	LGTTD2L	LGTTD5L	LGTTHSL					'L' Use left hand straight holder or right hand 90° holder
	Greater than 56	LGTTD2L1	LGTTD5L1	LGTTHSL1	add 'C'	add 'D'	add 'E'	add 'F'	

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

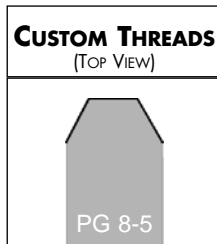
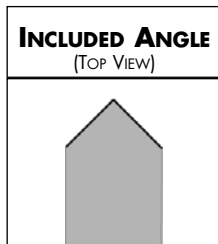
PRODUCT INFORMATION

- External threading within .070" of a shoulder.
- Internal ACME threading with 1.250" minimum bore diameter.
- 6 Threads per inch and greater.
- Sub-micron grain **DURA-MAX[®] 2000** and **5000** Carbides and High Speed Steel.
- Inserts can be coated with TiN, TiAlN, TiCN and Diamond coating.



MODIFICATIONS

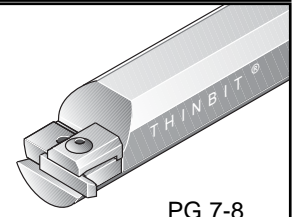
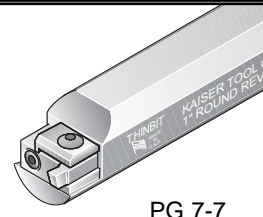
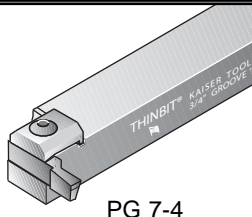
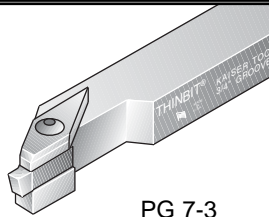
SEE PAGE
8-3
FOR ADDITIONAL
INFORMATION



TOOLHOLDER SELECTIONS

CNC, SWISS, CONVENTIONAL STYLE

ROUND STYLE



TECHNICAL SECTIONS

PRODUCT DEMONSTRATION



www.thinbit.com/qr4-11

SPEEDS AND FEEDS

PG 9-18

APPLICATION REFERENCE

PGS 9-3 & 9-4

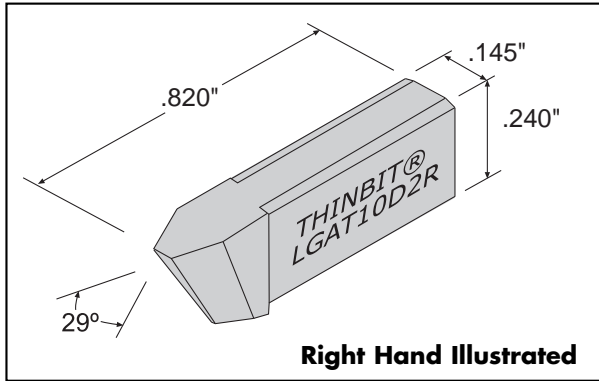
TROUBLE SHOOTING

PG 9-7

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

ACME THREADING INSERTS



FRONT RAKE: 15°

TOP RAKE: 0°

- 29° ACME threading inserts for internal and external applications.
- ACME threading tools can be used to cut other thread profiles by overcutting.
- Single lead

ORDERING INSTRUCTIONS

Select the **ORDER CODE** in the table below that represents your selection of orientation and insert grade.

EXAMPLE:

The **ORDER CODE** for a right hand ACME threading insert in **DURA-MAX® 2000** with 10 or fewer T.P.I. is:
LGAT10D2R

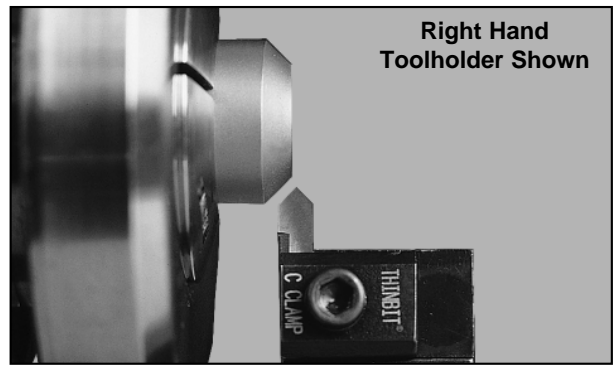
ACME INSERTS
THREADING

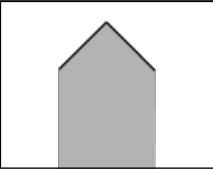
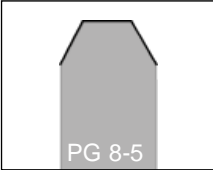
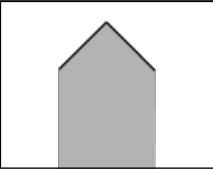
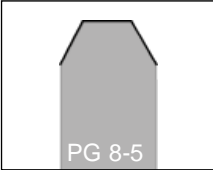
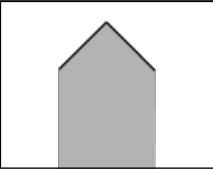
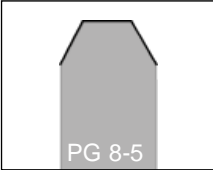
SPECIFICATIONS			ORDER CODE							INFO.
Insert Orientation	Threads per Inch	Flat at Tip	Insert Grades See Page 9-5 for expanded material selections and Page 9-18 for Speeds and Feeds information			Coatings See page 9-6 for expanded coating descriptions				Toolholder Catalog Section 7 Use Toolholders Beginning With
			DURA-MAX® 2000 Carbide For Steel & Interrupted Cutting	DURA-MAX® 5000 Carbide For Aluminum & Non-ferrous	High Speed Steel	Use Uncoated Part Number and Add Coating Code				
						TiN	TiCN	TiAlN	Diamond	
Right Hand For right hand external threads or left hand internal threads	6	.057"	LGAT06D2R	LGAT06D5R	LGAT06HSR					'L'
	10	.032"	LGAT10D2R	LGAT10D5R	LGAT10HSR	add 'C'	add 'D'	add 'E'	add 'F'	Use right hand straight holder or left hand 90° holder
	12	.028"	LGAT12D2R	LGAT12D5R	LGAT12HSR					
	14	.024"	LGAT14D2R	LGAT14D5R	LGAT14HSR					
	16	.021"	LGAT16D2R	LGAT16D5R	LGAT16HSR					

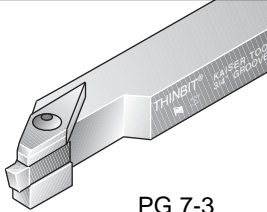
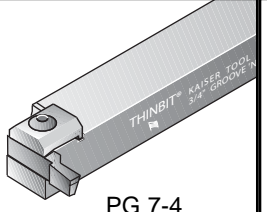
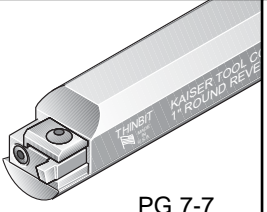
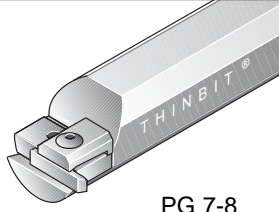
KAISER TOOL COMPANY, INC.


Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com

PRODUCT INFORMATION	<ul style="list-style-type: none"> • Chamfering within .090" of a shoulder. • Internal chamfering with 1.250" minimum bore diameter. • Sub-micron grain DURA-MAX[®] 2000 and 5000 Carbides and High Speed Steel. • Inserts can be coated with TiN, TiAlN, TiCN and Diamond coating.
----------------------------	--

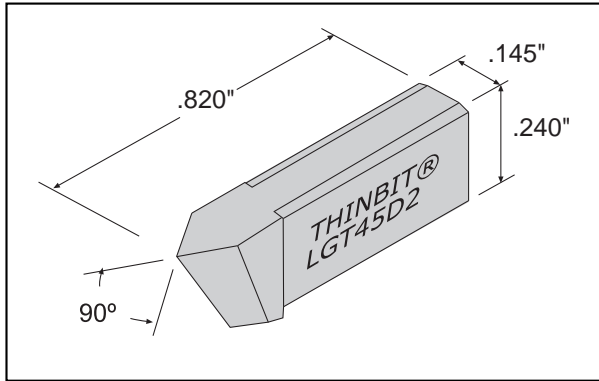


MODIFICATIONS SEE PAGE 8-3 FOR ADDITIONAL INFORMATION	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"> INCLUDED ANGLE (TOP VIEW) </td> <td style="width: 50%; text-align: center;"> CUSTOM THREADS (TOP VIEW)  PG 8-5</td> </tr> </table>	INCLUDED ANGLE (TOP VIEW) 	CUSTOM THREADS (TOP VIEW)  PG 8-5
INCLUDED ANGLE (TOP VIEW) 	CUSTOM THREADS (TOP VIEW)  PG 8-5		

TOOLHOLDER SELECTIONS	CNC, SWISS, CONVENTIONAL STYLE		ROUND STYLE	
	 PG 7-3	 PG 7-4	 PG 7-7	 PG 7-8

TECHNICAL SECTIONS	PRODUCT DEMONSTRATION	SPEEDS AND FEEDS	APPLICATION REFERENCE	TROUBLE SHOOTING
	 www.thinbit.com/qr4-13	PG 9-18	PGS 9-3 & 9-4	PG 9-7

CHAMFERING INSERTS



FRONT RAKE: 15°
 RADIUS: .002"
 TOP RAKE: 0°

ORDERING INSTRUCTIONS

Select the **ORDER CODE** in the table below that represents your selection of orientation and insert grade.

EXAMPLE:

The **ORDER CODE** for a chamfering insert in **DURA-MAX® 2000** is:

LGT45D2

CHAMFERING INSERTS
THREADING

SPECIFICATIONS		ORDER CODE						INFO.	
Insert Orientation	Flat at Tip	Insert Grades <small>See Page 9-5 for expanded material selections and Page 9-18 for speeds and feeds information</small>			Coatings <small>See Page 9-6 for expanded coating descriptions</small>				Toolholder Catalog Section 7 Use Toolholders Beginning With
		DURA-MAX® 2000 Carbide <small>For Steel & Interrupted Cutting</small>	DURA-MAX® 5000 Carbide <small>For Aluminum & Non-ferrous</small>	High Speed Steel	Use Uncoated Part Number and Add Coating Code				
					TiN	TiCN	TiAlN	Diamond	
Centered	None	LGT45D2	LGT45D5	LGT45HS	add 'C'	add 'D'	add 'E'	add 'F'	'L'

KAISER TOOL COMPANY, INC.

Phone: 888-THINBIT (888-844-6248) or (260) 484-3620 • Fax: 888-THINFAX (888-844-6329) or (260) 482-1881
 www.thinbit.com • General E-mail: thinbit@kaisertool.com • Orders: orders@thinbit.com • Quotes: quotes@thinbit.com