

MASTER CATALOG 2018

VOLUME ONE | **TURNING TOOLS**



ISO/ANSI TURNING | GROOVING & CUT-OFF | THREADING | APPLICATION SPECIFIC

➤ Top Notch™ Thread Tooling

The Proven High-Productivity Threading Solution

Top Notch threading with Beyond™ insert technology provides consistent tool performance and superior clamping thread to almost any operation. With the largest selection of grades and geometries in the industry, the Top Notch threading system is a proven solution.

Features and Benefits

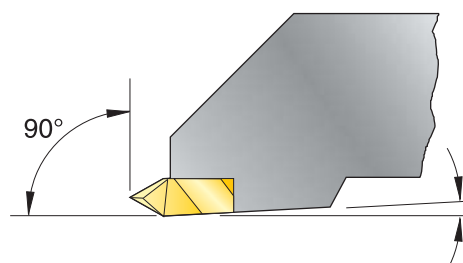
Choosing the Top Notch Threading System

- A superior choice for heavy-duty applications like machining of Acme, Buttress, and API threads. Top Notch is also the best system for coarse pitch and multitooth threading applications.
- Largest selection of insert geometries and grades in the industry.
- A very rigid insert clamping design ensures best tool life, surface finish, and workpiece quality.
- Simplicity of the Top Notch design does not require shim selection for thread helix angles. This helps to avoid mistakes on the shop floor.
- Reduce inventory by using the same Top Notch toolholders and boring bars with either threading or grooving inserts.
- Top Notch chipbreaker inserts eliminate long troublesome coils.
- An excellent choice for special thread forms and toolholder designs.



Precision-Ground Thread Form

- Minimizes built-up edge.
- Precisely cuts most common materials.
- Reduces cutting forces.
- Ensures accurate high-quality threads.



NOTE: Holders are designed to locate inserts inclined to 3° to provide back clearance down open side.

Superior Chip Control

- Eliminates long, troublesome coils.
- Excellent for internal threading operations.
- Available in partial profile inserts for 60° thread forms.

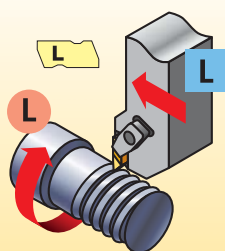
Step 1 • Select Threading Method and Hand of Tooling

Required Information:

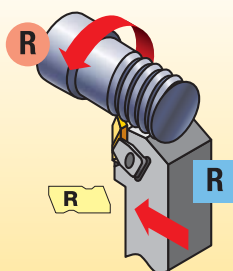
- External/internal operation.
- Spindle rotation/hand of thread.
- Feed direction.



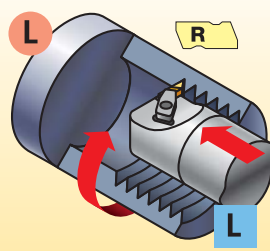
Feed direction toward the chuck • RECOMMENDED



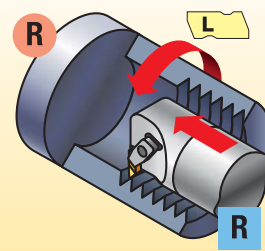
external left-hand thread



external right-hand thread

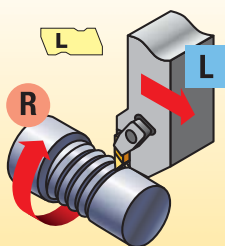


internal left-hand thread

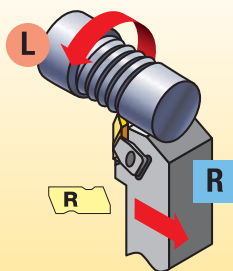


internal right-hand thread

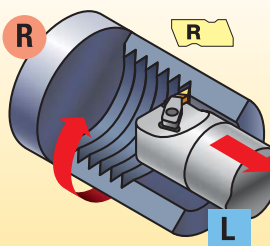
Feed direction away from the chuck



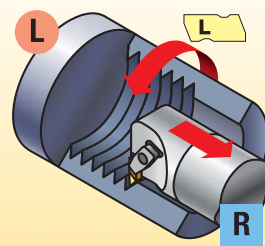
external right-hand thread



external left-hand thread



internal right-hand thread



internal left-hand thread

Step 2 • Select Holder from Catalog Page

The insert size must match the gage insert size of your toolholder selection:

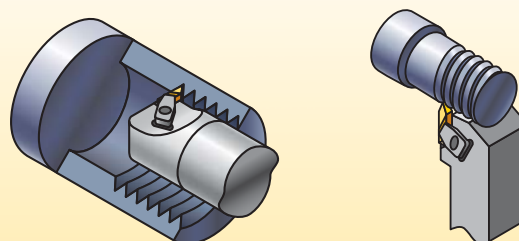
Required Information:

- External/internal operation.
- Minimum bore diameter (for internal operations).
- Hand of tool.
- Insert size (gage insert).

catalog number	gage insert
NSR-163D	N.3R
NSR-164D	N.4R

NOTE: Top Notch toolholders and boring bars are listed with a gage insert to indicate the size and hand required. They are compatible with both grooving and threading inserts of the same size.

Select the appropriate holder for the insert size and hand:



NOTE: Optimize your threading operation by using the proper infeed method and the recommended infeed values.

See the Technical section on pages D82–D105 of this catalog. For internal threading, minimum bore varies depending on thread type. See page D96 for details.

Step 3 • Choose Insert for Application

- See threading insert overview on page D10.
- Select cresting inserts for fully controlled thread form including diameter control. Cresting inserts eliminate the need for deburring.
- Non-cresting partial profile inserts can cut a variety of thread pitches.
- Note insert size for toolholder selection.

	insert size	catalog number	KCU25/KC5025	KCU10/KC5010
	2	NT-2RK	•	•
	3	NT-3RK	•	•
	4	NT-4RK	•	•

Step 4 • Select Grade and Speed

Recommendations for Grade and Speed Selection — m/min (SFM)

workpiece material	steel	stainless steel	cast iron	non-ferrous metals	high-temp alloys
insert style	chip control or neutral 	chip control or positive 	neutral 	positive 	positive 
optimum cutting conditions	KCU10/KC5010 70–260 (240–850)	KCU10/KC5010 90–245 (300–800)	KCU10/KC5010 60–245 (200–800)	KC5410 90–550 (300–1800)	KCU10/KC5010 30–150 (100–500)
first choice	KCU25/KC5025 50–230 (160–750)	KCU25/KC5025 75–230 (250–750)	KCU25/KC5025 50–180 (160–600)	KCU25/KC5025 60–455 (200–1500)	KCU25/KC5025 20–120 (75–400)

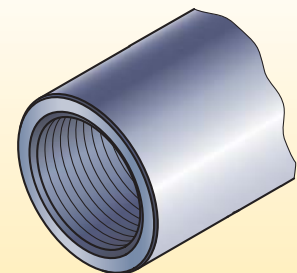
Examples:

Chip Control: NT-K or NT-CK (partial profile only)
Neutral: NT, NT-C, NTF, NTC, NJ, NJF, NDC-V, NA, NDC, NTB-A/B
Positive: NTP, NTK, NJP, NJK

Top Notch Threading Example:

application: 8 TPI Acme internal right-hand thread
material: alloy steel
workpiece diameter: 4.5" (114,3mm)
 good cutting conditions
 feed towards the chuck

Recommendation:
insert: NA3L8
grade: KCU10
insert size: 3
boring bar: A40NER3
gage insert: N.3L
speed: 500 SFM (150 m/min)
infeed passes*: 12 passes



*Infeed recommendations provided in technical data section on pages D91–D95.

■ Recommended Starting Speeds [m/min]

Material Group		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0-1	—	—	—	135	200	260	105	165	230	—	—	—
	2	—	—	—	130	190	245	100	150	200	—	—	—
	3	—	—	—	105	155	200	75	125	170	—	—	—
	4	—	—	—	70	120	160	60	95	130	—	—	—
	5	—	—	—	105	155	200	75	130	170	—	—	—
	6	—	—	—	70	120	160	50	90	130	—	—	—
M	1	45	75	105	120	180	245	90	170	230	—	—	—
	2	35	65	100	90	165	210	75	140	200	—	—	—
	3	35	65	100	90	165	210	75	135	200	—	—	—
K	1	30	75	120	120	180	245	90	135	180	—	—	—
	2	25	60	100	90	150	210	70	120	170	—	—	—
	3	20	55	90	60	105	150	50	85	120	—	—	—
N	1-2	90	245	365	150	365	550	120	305	455	245	425	610
	3	45	75	105	90	135	180	60	105	150	90	150	210
	4	60	120	180	120	305	455	100	200	305	120	305	455
	5	45	90	150	90	165	245	70	135	195	120	210	305
	6	35	75	120	120	210	305	100	170	245	120	245	365
S	1	8	25	45	30	70	105	20	40	60	—	—	—
	2	8	24	40	30	65	100	20	35	45	—	—	—
	3	8	24	40	30	65	100	20	35	45	—	—	—
	4	9	60	105	55	105	150	45	85	120	—	—	—
H	1	—	—	—	30	45	60	—	—	—	—	—	—
	2	—	—	—	15	30	45	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: FIRST choice starting speeds are in **bold** type.

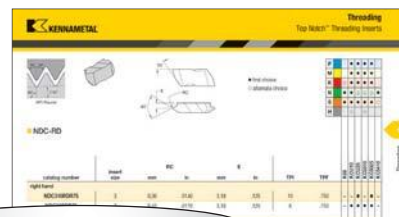
■ Recommended Starting Speeds [SFM]

Material Group		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0-1	—	—	—	450	650	850	350	550	750	—	—	—
	2	—	—	—	430	630	800	330	500	650	—	—	—
	3	—	—	—	350	520	650	250	420	550	—	—	—
	4	—	—	—	240	400	520	200	310	420	—	—	—
	5	—	—	—	350	520	650	250	420	550	—	—	—
	6	—	—	—	240	400	520	160	300	420	—	—	—
M	1	150	250	350	400	600	800	300	550	750	—	—	—
	2	120	220	320	300	550	700	250	470	650	—	—	—
	3	120	220	320	300	550	700	250	450	650	—	—	—
K	1	100	250	400	400	600	800	300	450	600	—	—	—
	2	80	200	320	300	500	700	240	400	560	—	—	—
	3	60	180	300	200	350	500	160	280	400	—	—	—
N	1-2	300	800	1200	500	1200	1800	400	1000	1500	800	1400	2000
	3	150	250	350	300	450	600	200	350	500	300	500	700
	4	200	400	600	400	1000	1500	320	660	1000	400	1000	1500
	5	150	300	500	300	550	800	240	440	640	400	700	1000
	6	120	250	400	400	700	1000	320	560	800	400	800	1200
S	1	25	90	150	100	230	350	75	125	200	—	—	—
	2	25	80	130	100	210	320	75	110	150	—	—	—
	3	25	80	130	100	210	320	75	110	150	—	—	—
	4	30	200	350	180	350	500	150	280	400	—	—	—
H	1	—	—	—	100	150	200	—	—	—	—	—	—
	2	—	—	—	50	100	150	—	—	—	—	—	—
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	—	—	—	—	—	—	—	—	—	—	—	—

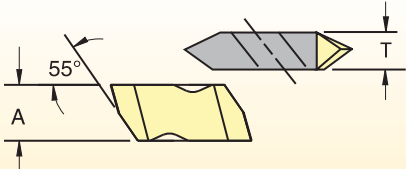
NOTE: FIRST choice starting speeds are in **bold** type.

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

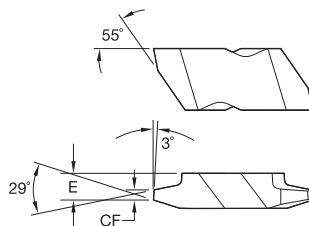
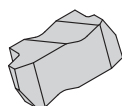
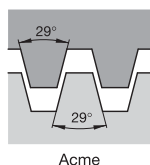


NDC38RDR75

N	D	C	3	8RD	R	75																																										
Type of Insert	Insert	Additional Information	Insert Size	Industry Thread Identification	Hand of Insert	Definition of Insert	Additional Information																																									
N — Top Notch* 		B — Buttress F — Fine pitch S — Stub Acme C — Cresting P — Positive rake K — Fine pitch, positive		Indicates API or drilling industry form designation (e.g., 10RD, 8RD, .038) or controlled root radius threading inserts indicate the root radius in .001" increments (NJ, NJF, NJP, NJK) or M indicates metric ISO thread	R — Right hand L — Left hand																																											
A — Acme D — API or NPT J — UNJ thread T — 60° V thread W — 55° V Whitworth	 Top Notch insert dimensions <table border="1"> <thead> <tr> <th rowspan="2">insert size</th> <th colspan="2">A</th> <th colspan="2">T</th> </tr> <tr> <th>inch</th> <th>mm</th> <th>inch</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>.100</td> <td>2,54</td> <td>.100</td> <td>2,54</td> </tr> <tr> <td>2</td> <td>.219</td> <td>5,56</td> <td>.150</td> <td>3,81</td> </tr> <tr> <td>3</td> <td>.344</td> <td>8,74</td> <td>.195</td> <td>4,95</td> </tr> <tr> <td>4</td> <td>.453</td> <td>11,51</td> <td>.255</td> <td>6,48</td> </tr> <tr> <td>5</td> <td>.688</td> <td>17,48</td> <td>.380</td> <td>9,65</td> </tr> <tr> <td>6</td> <td>.453</td> <td>11,51</td> <td>.383</td> <td>9,73</td> </tr> <tr> <td>8</td> <td>.312</td> <td>7,93</td> <td>.438</td> <td>11,13</td> </tr> </tbody> </table> NJF  NA  NDC-V-M  NT  NTC  NT-K 		insert size	A		T		inch	mm	inch	mm	1	.100	2,54	.100	2,54	2	.219	5,56	.150	3,81	3	.344	8,74	.195	4,95	4	.453	11,51	.255	6,48	5	.688	17,48	.380	9,65	6	.453	11,51	.383	9,73	8	.312	7,93	.438	11,13	• Threads per inch or pitch (for metric) • "A" or "B" type Buttress insert • Taper per foot — API threads	I — Internal thread E — External thread (used only if internal and external thread forms are different) M — Multiple tooth K — Standard chip control C — Coarse pitch D — Dryseal
insert size	A			T																																												
	inch	mm	inch	mm																																												
1	.100	2,54	.100	2,54																																												
2	.219	5,56	.150	3,81																																												
3	.344	8,74	.195	4,95																																												
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6	.453	11,51	.383	9,73																																												
8	.312	7,93	.438	11,13																																												

*Kennametal proprietary standard only.
kennametal.com

style			thread profile	standard	tolerance class	cresting	application	page(s)
chip control — K	neutral	positive						
NT-K 	NT 	NTP 	Partial Profile 60°	—	—	N	General use for 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D17, D22
NT-CK 			Partial Profile 60° — coarse pitch	—	—	N	Coarse pitch 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D19
	NTF 	NTK 	Partial Profile 60° — fine pitch	—	—	N	Fine pitch 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches — able to thread close to shoulders.	D21
	NTU 		Partial Profile 60° — fine pitch	—	—	N	Four-edged insert for 60° partial profile threading — requires NSU-style toolholder for size 4U insert.	D22
	NTC-M 		Metric ISO	ISO R262, DIN 13	6g/6H	Y	Widely used metric 60° V-form for all industries.	D19
	NTC 		American UN	ANSI B1.1:74	2A/2B	Y	Widely used inch-based 60° V-form for all industries.	D20
	NJ 	NJP 	UNJ	MIL-S-8879C	3A/3B	N	Controlled root radius on external threads for military and aerospace industries.	D15–D16
	NJF 	NJK 	UNJ — fine pitch	MIL-S-8879C	3A/3B	N	Controlled root radius on external threads for military and aerospace industries — able to thread close to shoulders.	D15–D16
	NDC-V 		NPT	ANSI/ACME B1.201:1983	Standard NPT	Y	National Pipe Thread standard forms for pipe fittings.	D14
	NDC-V-M 		NPT — multitooth	ANSI/ACME B1.201:1983	Standard NPT	Y	High-productivity multi-tooth threading inserts for NPT threads.	D14
	NWC-E 		Whitworth, BSW, BSP	BS 84:1956, ISO 228/1:1982, DIN 259	Medium Class A	Y	Widely used 55° form for gas and water connections.	D23
	ND 		API Rotary Shoulder Connections — partial profile	API SPEC. 7:1990	Standard API	N	60° V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms.	D12
	NDC 		API Rotary Shoulder Connections — cresting	API SPEC. 7:1990	Standard API	Y	60° V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms — complete cresting form including taper.	D13
	NDC-RD 		API Round	API STD. 5B:1979	Standard API RD	Y	60° V-form with large radius for casing, tubing, and line pipe in the oil and gas industry, including 8 and 10 round forms.	D13
	NDC-RD-M 		API Round — multitooth	API STD. 5B:1979	Standard API RD	Y	High productivity multitooth threading inserts for API round threads.	D13
	NA 		Acme	ANSI B1.5:1988	3G	N	29° truncated thread form for motion applications in a wide variety of industries.	D11
	NAS 		Stub Acme	ANSI B1.8:1988	2G	N	Shallow depth 29° truncated thread form for motion applications in a wide variety of industries.	D12
	NTB-A 		American Buttress — 7° clearance flank leading (Push)	ANSI B1.9:1973	Class 2	N	Sawtooth form for axial load bearing applications in a variety of industries — use the “A” style when the 7° clearance flank is the leading flank.	D17
	NTB-B 		American Buttress — 45° clearance flank leading (Pull)	ANSI B1.9:1973	Class 2	N	Sawtooth form for axial load bearing applications in a variety of industries — use the “B” style when the 45° clearance flank is the leading flank.	D18



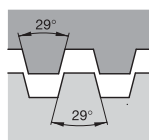
● first choice
○ alternate choice

P							
M							
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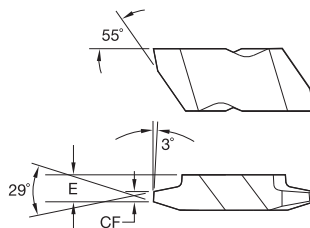
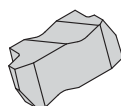
■ NA

		RC		E		CF									
catalog number	insert size	mm	in	mm	in	mm	in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NA3R10	3	—	—	3,79	.149	0,810	.0319	10	—	—	●	●	●	●	—
NA3R12	3	—	—	3,79	.149	0,719	.0283	12	—	—	●	—	—	●	—
NA3R16	3	—	—	3,79	.149	0,523	.0206	16	—	—	●	—	—	—	—
NA3R4	3	—	—	3,38	.133	2,222	.0875	4	—	—	—	●	●	●	—
NA3R5	3	—	—	3,79	.149	1,750	.0689	5	—	—	●	●	●	●	—
NA3R6	3	—	—	3,79	.149	1,438	.0566	6	—	—	●	●	●	●	—
NA3R8	3	—	—	3,79	.149	1,044	.0411	8	—	—	●	●	●	●	—
NA4R4	4	—	—	5,13	.202	2,223	.0875	4	—	—	—	●	●	●	—
NA4R5	4	—	—	5,13	.202	1,750	.0689	5	—	—	—	—	—	—	—
NA4R6	4	—	—	5,13	.202	1,438	.0566	6	—	—	—	—	—	●	—
NA6R25	6	—	—	7,19	.283	3,635	.1431	2.5	—	—	—	—	—	●	—
NA6R2	6	—	—	7,19	.283	4,577	.1802	2	—	—	●	●	●	●	—
NA6R3	6	—	—	7,19	.283	3,007	.1184	3	—	—	—	—	—	●	—
left hand															
NA3L8	3	—	—	3,79	.149	1,044	.0411	8	—	—	●	●	●	●	—
NA3L10	3	—	—	3,79	.149	0,810	.0319	10	—	—	—	●	—	●	—
NA3L12	3	—	—	3,79	.149	0,719	.0283	12	—	—	—	—	●	●	—
NA3L4	3	—	—	3,38	.133	2,222	.0875	4	—	—	●	●	●	●	—
NA3L5	3	—	—	3,79	.149	1,750	.0689	5	—	—	—	●	●	●	—
NA3L6	3	—	—	3,79	.149	1,438	.0566	6	—	—	—	●	●	●	—
NA4L5	4	—	—	5,13	.202	1,750	.0689	5	—	—	—	—	—	●	—
NA4L6	4	—	—	5,13	.202	1,438	.0566	6	—	—	—	—	—	●	—
NA4L8	4	—	—	5,13	.202	1,044	.0411	8	—	—	—	●	—	—	—
NA4L4	4	—	—	5,13	.202	2,223	.0875	4	—	—	—	●	—	—	—
NA6L3	6	—	—	7,19	.283	3,007	.1184	3	—	—	—	—	●	—	—
NA6L25	6	—	—	7,19	.283	3,635	.1431	2.5	—	—	—	●	—	—	—
NA6L2	6	—	—	7,19	.283	4,577	.1802	2	—	—	—	●	●	●	—
NA3L16	3	—	—	3,79	.149	0,523	.0206	16	—	—	●	—	—	—	—





Stub Acme

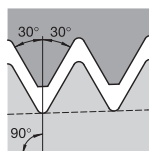


- first choice
- alternate choice

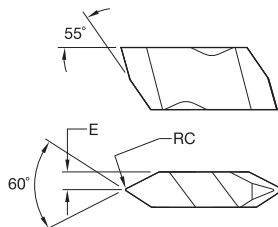
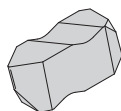
P	●	●	●	●	●	●
M	●	●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H	○	○	○	○	○	○

NAS

		RC		E		CF									
catalog number	insert size	mm	in	mm	in	mm	in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NAS3R10	3	—	—	3,79	.149	0,940	.0370	10	—	—	●	—	●	●	—
NAS3R12	3	—	—	3,79	.149	0,828	.0326	12	—	—	—	●	—	●	—
NAS3R16	3	—	—	3,79	.149	0,605	.0238	16	—	—	—	—	—	●	—
NAS3R4	3	—	—	3,79	.149	2,550	.1004	4	—	—	—	●	—	●	—
NAS3R5	3	—	—	3,79	.149	2,014	.0793	5	—	—	●	—	—	●	—
NAS3R6	3	—	—	3,79	.149	1,656	.0652	6	—	—	●	—	●	●	—
NAS3R8	3	—	—	3,79	.149	1,209	.0476	8	—	—	●	●	●	●	—
left hand															
NAS3L10	3	—	—	3,79	.149	0,940	.0370	10	—	—	●	—	—	●	—
NAS3L12	3	—	—	3,79	.149	0,828	.0326	12	—	—	—	—	—	●	—
NAS3L4	3	—	—	3,79	.149	2,550	.1004	4	—	—	—	●	—	●	—
NAS3L5	3	—	—	3,79	.149	2,014	.0793	5	—	—	●	—	—	—	—
NAS3L6	3	—	—	3,79	.149	1,656	.0652	6	—	—	●	●	●	●	—
NAS3L8	3	—	—	3,79	.149	1,209	.0476	8	—	—	●	●	●	●	—

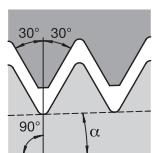


API Rotary Shoulder Connections

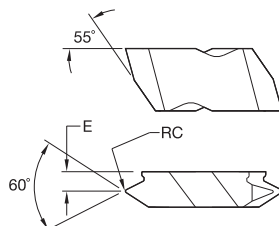
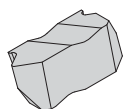


ND • Partial Profile

catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
right hand													
ND3040R	3	0,45	.0175	2,08	.082	5	—	—	—	—	—	●	—
ND3038R	3	0,90	.0355	2,08	.082	4	—	—	—	—	—	●	—
ND4050R	4	0,57	.0225	3,25	.128	4	—	—	—	●	—	—	—
left hand													
ND3038L	3	0,90	.0355	2,08	.082	4	—	—	—	—	—	●	—
ND3040L	3	0,45	.0175	2,08	.082	5	—	—	—	●	—	—	—



$\alpha = 1/2 \arctg (tpf/12)$
API Rotary Shoulder Connections

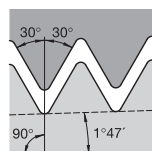


- first choice
- alternate choice

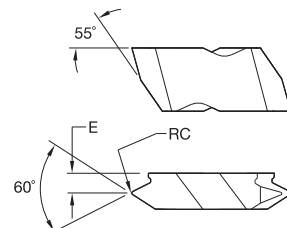
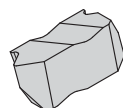
P	●	●	●	●	●	●
M	●	●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	○	○
H	○	○	○	○	○	○

■ NDC • Cresting

catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
right hand													
NDC3040R3	3	0,45	.0175	3,73	.147	5	3.000	—	—	—	—	●	—
NDC4040R3	4	0,45	.0175	3,73	.147	5	3.000	—	—	—	—	●	—
NDC4050R2	4	0,57	.0225	4,65	.183	4	2.000	—	—	—	—	●	—
NDC4050R3	4	0,57	.0225	4,65	.183	4	3.000	—	—	—	—	●	—
NDC4038R2	4	0,90	.0355	4,65	.183	4	2.000	—	—	—	—	●	—
left hand													
NDC3040L3	3	0,45	.0175	3,73	.147	5	3.000	—	—	—	●	—	—
NDC4050L2	4	0,57	.0225	4,65	.183	4	2.000	—	—	—	—	●	—
NDC4038L2	4	0,90	.0355	4,65	.183	4	2.000	—	—	—	—	●	—

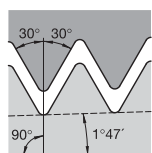


API Round

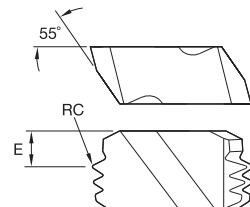
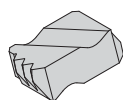


■ NDC-RD

catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
right hand													
NDC310RDR75	3	0,36	.0140	3,18	.125	10	.750	—	—	—	—	●	—
NDC38RDR75	3	0,43	.0170	3,18	.125	8	.750	—	—	●	●	●	—
left hand													
NDC310RDL75	3	0,36	.0140	3,18	.125	10	.750	—	—	—	—	●	—
NDC38RDL75	3	0,43	.0170	3,18	.125	8	.750	—	—	●	●	●	—

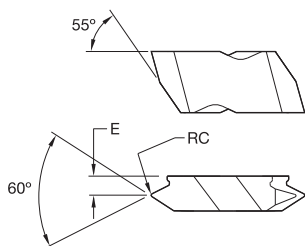


API Round



■ NDC-RD-M • Multitooth

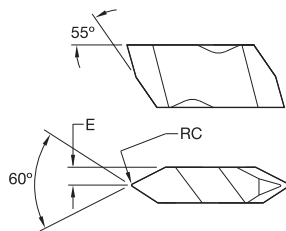
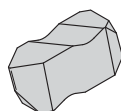
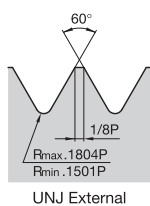
catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
right hand													
NDC68RDR75M	6	0.41	.0160	2.62	.103	8	.750	—	●	—	—	—	—



P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N	●	●	○	○	○	●	
S	●	●	●	●	●	○	
H		○		○			

Threading

catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
right hand													
NDC8115VR75M	8	0,10	.0040	2,59	.102	11.5	.750	-	●	-	-	-	-
NDC88VR75M	8	0,13	.0050	2,41	.095	8	.750	-	●	-	●	-	-
left hand													
NDC88VL75M	8	0,13	.0050	2,41	.095	8	.750	-	-	-	●	-	-

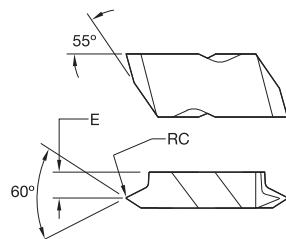
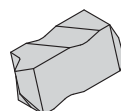
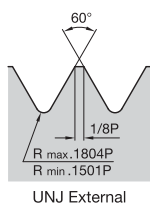


- first choice
- alternate choice

P	●	●	●	●	●	●
M	●	●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	○	○
H	○	○	○	○	○	○

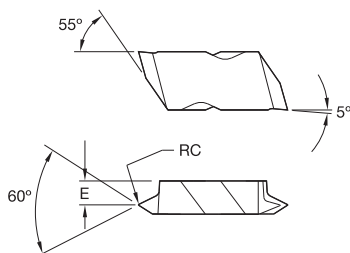
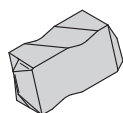
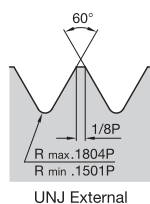
NJ

catalog number	insert size	mm	RC	in	E	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand																	
NJ3010R16	3	0,25	.0099	2,49	.098	—	—	16	—	—	—	●	—	—	—	●	—
NJ3014R12	3	0,33	.0130	2,49	.098	—	—	12	—	—	—	—	●	—	—	●	—
NJ3020R8	3	0,49	.0193	2,49	.098	—	—	8	—	—	—	—	—	—	—	●	—
left hand																	
NJ3010L16	3	0,25	.0099	2,49	.098	—	—	16	—	—	—	—	—	—	—	●	—
NJ3014L12	3	0,33	.0130	2,49	.098	—	—	12	—	—	—	—	—	—	—	●	—
NJ3020L8	3	0,49	.0193	2,49	.098	—	—	8	—	—	—	—	—	—	—	●	—



NJF

catalog number	insert size	mm	RC	in	E	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand																	
NJF3005R32	3	0,13	.0052	3,58	.141	—	—	32	—	—	—	—	●	—	—	—	—
NJF3006R28	3	0,15	.0059	3,58	.141	—	—	28	—	—	—	—	—	—	—	●	—
NJF3007R24	3	0,17	.0068	3,58	.141	—	—	24	—	—	—	—	—	—	—	●	—
NJF3008R20	3	0,20	.0078	3,58	.141	—	—	20	—	—	—	—	—	—	—	●	—
NJF3009R18	3	0,22	.0088	3,58	.141	—	—	18	—	—	—	—	—	—	—	●	—
NJF3010R16	3	0,25	.0099	3,58	.141	—	—	16	—	—	—	—	—	—	—	●	—
NJF3012R14	3	0,28	.0112	3,58	.141	—	—	14	—	—	—	—	—	—	—	●	—
left hand																	
NJF3007L24	3	0,17	.0068	3,58	.141	—	—	24	—	—	—	—	—	—	—	●	—
NJF3008L20	3	0,20	.0078	3,58	.141	—	—	20	—	—	—	—	—	—	—	●	—
NJF3010L16	3	0,25	.0099	3,58	.141	—	—	16	—	—	—	—	—	—	—	●	—

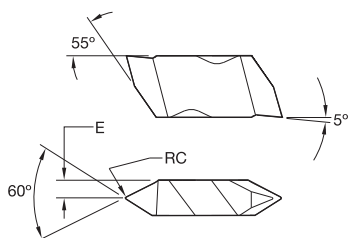
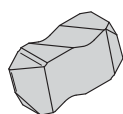
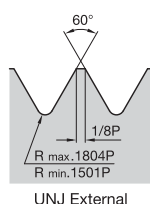


● first choice
○ alternate choice

P									
M									
K									
N									
S									
H									

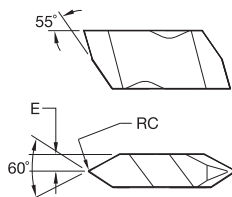
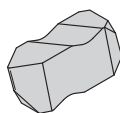
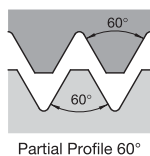
NJK

		RC		E		external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
catalog number	insert size	mm	in	mm	in										
right hand															
NJK3005R32	3	0,13	.0052	3,58	.141	—	—	32	—	—	—	—	●	●	—
NJK3006R28	3	0,15	.0059	3,58	.141	—	—	28	—	—	—	●	●	—	—
NJK3007R24	3	0,17	.0068	3,58	.141	—	—	24	—	—	—	●	●	●	—
NJK3008R20	3	0,20	.0078	3,58	.141	—	—	20	—	—	—	●	●	●	—
NJK3009R18	3	0,22	.0088	3,58	.141	—	—	18	—	—	—	—	●	●	—
NJK3010R16	3	0,25	.0099	3,58	.141	—	—	16	—	—	—	—	●	●	—
NJK3012R14	3	0,28	.0112	3,58	.141	—	—	14	—	—	—	—	●	●	—
left hand															
NJK3005L32	3	0,13	.0052	3,58	.141	—	—	32	—	—	—	—	—	●	—
NJK3006L28	3	0,15	.0059	3,58	.141	—	—	28	—	—	—	—	—	●	—



NJP

		RC		E											
catalog number	insert size	mm	in	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJP3010R16	3	0,25	.0099	2,49	.098	—	—	16	—	—	●	—	●	●	—
NJP3014R12	3	0,33	.0130	2,49	.098	—	—	12	—	●	●	●	●	●	—
NJP3020R8	3	0,49	.0193	2,49	.098	—	—	8	—	—	—	●	●	●	—
left hand															
NJP3010L16	3	0,25	.0099	2,49	.098	—	—	16	—	—	—	—	—	●	—
NJP3014L12	3	0,33	.0130	2,49	.098	—	—	12	—	—	—	—	●	—	—
NJP3020L8	3	0,49	.0193	2,49	.098	—	—	8	—	—	—	—	—	●	—

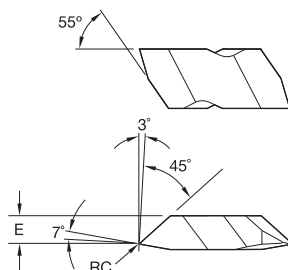
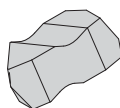
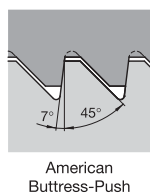


- first choice
- alternate choice

P	●	●	●	●	●	●
M	●	●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H	○	○	○	○	○	○

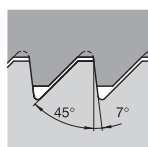
■ NT

		RC		E											
catalog number	insert size	mm	in	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT2R	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	—
NT3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	—
NT4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	—
left hand															
NT2L	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	—
NT3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	—
NT4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	—

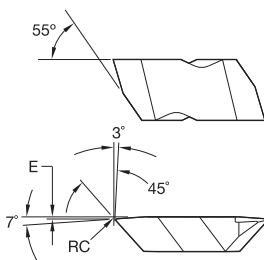
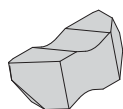


■ NTB-A

catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
right hand													
NTB2RA	2	0,08	.0030	3,20	.126	16-20	—	●	—	—	—	—	—
NTB3RA	3	0,17	.0065	4,17	.164	8-16	—	—	●	—	—	●	—
NTB4RA	4	0,25	.0100	5,23	.206	4-6	—	—	●	—	—	—	—
left hand													
NTB3LA	3	0,17	.0065	4,17	.164	8-16	—	●	—	—	●	●	—



American Butress-Pull

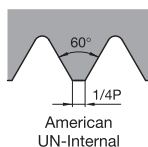


- first choice
- alternate choice

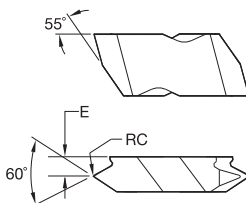
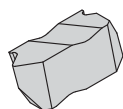
P						
M						
K						
N						
S						
H						

■ NTB-B

		RC		E									
catalog number	insert size	mm	in	mm	in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NTB2RB	2	0,08	.0030	0,25	.010	16-20	—	—	—	—	●	—	—
NTB3R12B	3	0,16	.0060	2,49	.098	12	—	—	—	—	●	—	—
NTB3RB	3	0,17	.0065	0,31	.012	8-16	—	●	●	●	●	●	—
NTB4RB	4	0,25	.0100	0,41	.016	4-6	—	—	●	—	●	●	—
left hand													
NTB2LB	2	0,08	.0030	0,25	.010	16-20	—	—	●	—	●	—	—
NTB3L12B	3	0,16	.0060	2,49	.098	12	—	—	—	—	●	—	—
NTB3LB	3	0,17	.0065	0,31	.012	8-16	—	●	●	—	●	●	—
NTB4LB	4	0,25	.0100	0,41	.016	4-6	—	—	—	—	●	●	—

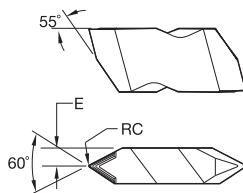
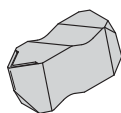
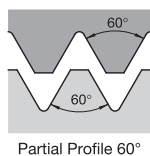


American UN-Internal



■ NTC-I

catalog number	insert size	RC		E		external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in										
right hand															
NTC3R12I	3	0,10	.0040	3,76	.148	—	—	—	12	—	—	—	—	●	—
left hand															
NTC3L12I	3	0,10	.0040	3,76	.148	—	—	—	12	—	—	—	—	●	—
NTC3L14I	3	0,09	.0037	3,76	.148	—	—	—	14	—	—	—	—	●	—
NTC3L16I	3	0,08	.0030	3,76	.148	—	—	—	16	—	—	—	—	●	—
NTC3L8I	3	0,18	.0070	2,72	.107	—	—	—	8	—	—	—	—	●	—
NTC3L10I	3	0,13	.0052	2,72	.107	—	—	—	10	—	—	—	—	●	—

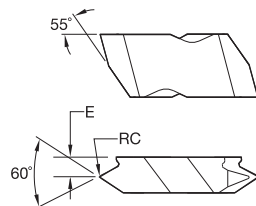
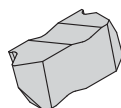
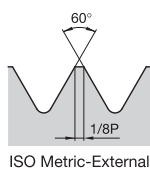


- first choice
- alternate choice

P						
M						
K						
N						
S						
H						

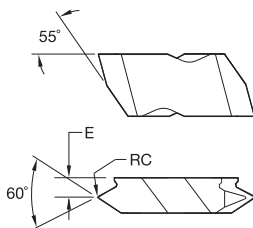
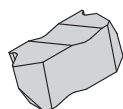
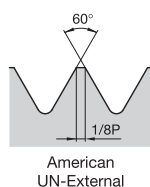
■ NT-CK

		RC				E									
catalog number	insert size	mm	in	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT3RCK	3	0,34	.0135	2,46	.097	2,5-4,0	4,0	6-11	6	-	●	●	●	●	-
NT4RCK	4	0,34	.0135	3,23	.127	2,5-5,5	4,0-5,5	4,5-11	4.5-6	-	-	●	●	●	-
left hand															
NT3LCK	3	0,34	.0135	2,46	.097	2,5-4,0	4,0	6-11	6	-	●	●	●	●	-
NT4LCK	4	0,34	.0135	3,23	.127	2,5-5,5	4,0-5,5	4,5-11	4.5-6	-	-	●	-	●	-



■ NTC-M-E

		RC				E									
catalog number	insert size	mm	in	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3MR150E	3	0,20	.0080	3,68	.145	1,50	—	—	—	—	●	—	●	●	—
NTC3MR200E	3	0,27	.0106	3,68	.145	2,00	—	—	—	—	—	—	●	—	—



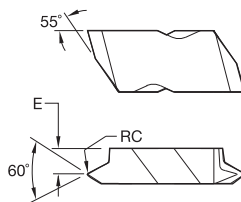
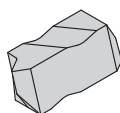
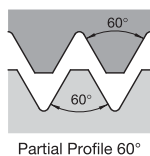
- first choice
- alternate choice

P		●	●	●	●	●
M		●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H	○	○	○	○	○	○

NTC-E

Threading

	RC					E										
catalog number	insert size	mm	in	mm	in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410	
right hand																
NTC3R32E	3	0,10	.0040	3,76	.148	—	—	32	—	—	●	—	—	●	—	
NTC3R28E	3	0,12	.0046	3,76	.148	—	—	28	—	—	—	—	—	●	—	
NTC3R24E	3	0,13	.0053	3,76	.148	—	—	24	—	—	—	—	●	●	—	
NTC3R20E	3	0,16	.0062	3,76	.148	—	—	20	—	—	●	—	●	●	—	
NTC3R18E	3	0,18	.0070	3,76	.148	—	—	18	—	—	—	●	●	●	—	
NTC3R16E	3	0,19	.0075	3,76	.148	—	—	16	—	—	—	—	●	●	—	
NTC3R14E	3	0,22	.0088	3,76	.148	—	—	14	—	—	—	—	●	●	—	
NTC3R13E	3	0,24	.0096	3,76	.148	—	—	13	—	—	—	—	●	●	—	
NTC3R12E	3	0,25	.0100	3,76	.148	—	—	12	—	—	—	●	●	●	—	
NTC3R11E	3	0,28	.0111	2,72	.107	—	—	11	—	—	●	—	—	●	—	
NTC3R10E	3	0,32	.0124	2,72	.107	—	—	10	—	—	—	—	●	●	—	
NTC3R9E	3	0,36	.0140	2,72	.107	—	—	9	—	—	●	—	—	—	—	
NTC3R8E	3	0,41	.0160	2,72	.107	—	—	8	—	—	—	—	●	●	—	
NTC3R7E	3	0,47	.0186	2,72	.107	—	—	7	—	—	—	—	—	●	—	
left hand																
NTC3L16E	3	0,19	.0075	3,76	.148	—	—	16	—	—	●	—	—	—	—	
NTC3L12E	3	0,25	.0100	3,76	.148	—	—	12	—	—	—	—	—	—	—	
NTC3L10E	3	0,32	.0124	2,72	.107	—	—	10	—	—	●	—	—	—	—	
NTC3L8E	3	0,41	.0160	2,72	.107	—	—	8	—	—	—	—	●	—	—	

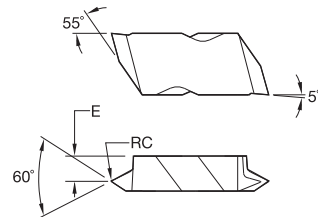
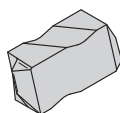
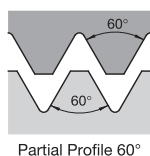


- first choice
- alternate choice

P	●	●	●	●	●	●
M	●	●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H	○	○	○	○	○	○

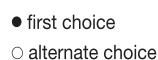
NTF

catalog number	insert size	mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTF2R	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	-
NTF3R	3	0,08	.0030	3,58	.141	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	-
NTF4R	4	0,08	.0030	5,11	.201	0,60-2,5	1,0-2,5	10-44	9-24	-	-	-	-	●	-
left hand															
NTF2L	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	-
NTF3L	3	0,08	.0030	3,58	.141	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	-



NTK

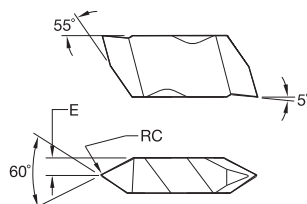
catalog number	insert size	mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTK2R	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	-
NTK3R	3	0,08	.0030	3,58	.141	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	-
left hand															
NTK2L	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	-
NTK3L	3	0,08	.0030	3,58	.141	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	-



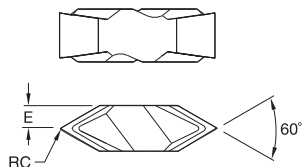
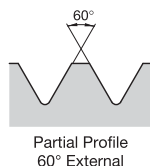
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H		○		○			

Threading

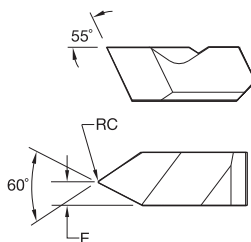
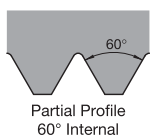
Partial Profile 60°



catalog number	insert size	RC		E		external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KC U10	KC U25	KC 50/10	KC 50/25	KC 54/10
		mm	in	mm	in										
right hand															
NTP2R	2	0,10	.0040	1,91	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	—
NTP3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	●
NTP4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	—	●	●	●	●	—
left hand															
NTP2L	2	0,10	.0040	1,91	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	—
NTP3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	—
NTP4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	—	—	—	●	●	—



catalog number	insert size	RC		E		external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in										
right hand															
NTU4R	4U	0,11	.0045	3,18	.125	1,25-6,25	—	4-20	—	-	-	●	-	●	

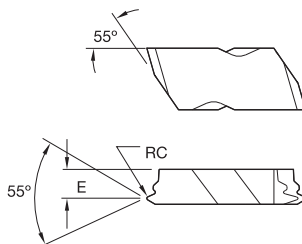
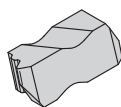
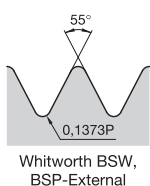


- first choice
- alternate choice

P	●	●	●	●	●	●
M	●	●	●	●	●	●
K	○	●	●	●	●	●
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H	○	○	○	○	○	○

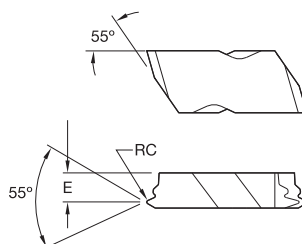
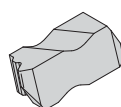
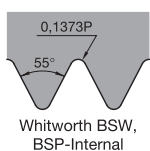
NT-1L

catalog number	insert size	RC		E		external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in										
left hand															
NT1L	1	0,08	.0030	1,09	.043	—	1,0-2,0	—	12-24	●	●	●	●	●	—



NWC-E

catalog number	insert size	RC		E		TPI	TPF						
		mm	in	mm	in								
right hand													
NWC3R14E	3	0,24	.0093	3,43	.135	14	—	—	—	●	●	—	—
NWC3R11E	3	0,30	.0118	3,43	.135	11	—	—	—	●	●	—	—



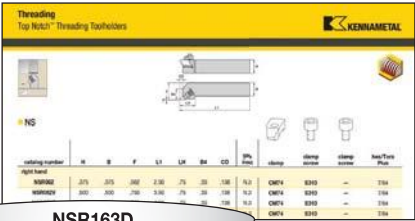
NWC-I

catalog number	insert size	RC		E		TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
		mm	in	mm	in								
		left hand											
NWC3L11I	3	0.30	.0118	3.43	.135	11	—	—	—	—	●	—	—

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

Threading
Top Notch™ Threading Toolholders

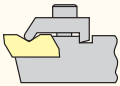


NSR163D

N

Insert Holding Method

N — Top Notch



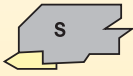
S

Insert Mounting Location

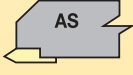
End mount



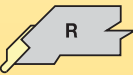
Side mount, offset



Side mount, no offset for swiss machining



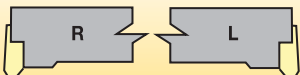
NRR undercut



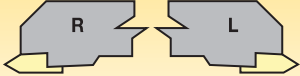
R

Hand of Tool

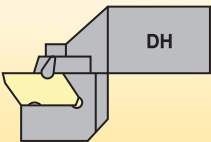
End mount



Side mount



Drop Head



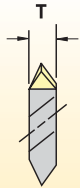
16

Shank Size

Inch:
For shanks 5/8" square and larger, the number represents the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section is preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

3

Insert Size



insert size	T
2	.150"
3	.195"
4	.255"
5	.380"
6	.383"
8	.438"

D

Qualified Surface and Length

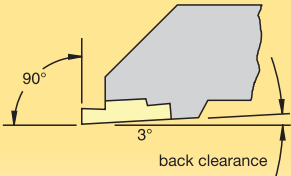
A — Qualified back and end, 4" long

B — Qualified back and end, 4.5" long

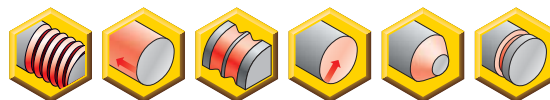
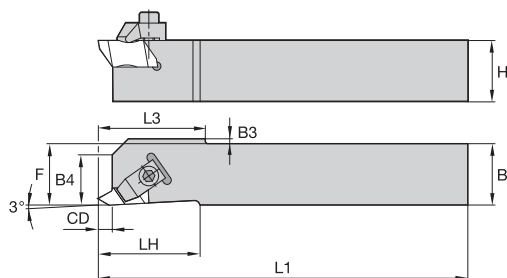
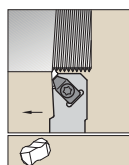
C — Qualified back and end, 5" long

D — Qualified back and end, 6" long

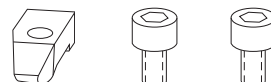
E — Qualified back and end, 7" long



NOTE: Holders are designed to locate insert inclined to 3° to provide back clearance down open side.



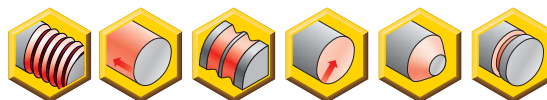
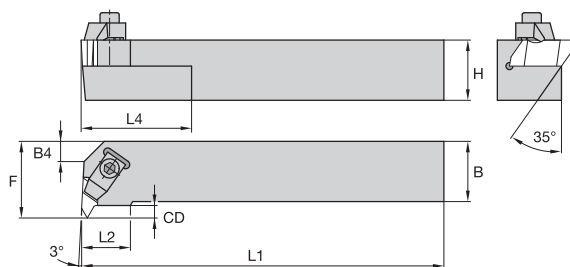
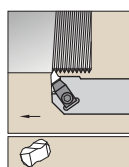
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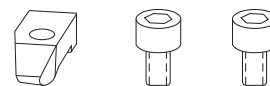
Threading

order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand															
1095671	NASR062D	.375	.375	.375	6.00	.75	.35	.700	.070	.88	N.2R	CM182	S310	—	7/64
1095670	NASR082D	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2R	CM182	S310	—	7/64
1095576	NASR102B	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2R	CM74	S310	—	7/64
1095574	NASR083D	.500	.500	.500	6.00	1.25	.50	.210	.125	1.32	N.3R	CM184LP	—	S2112	25 IP
1095668	NASR103B	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3R	CM184LP	—	S2112	25 IP
left hand															
1095675	NASL062D	.375	.375	.375	6.00	.75	.35	.700	.070	.88	N.2L	CM183	S310	—	7/64
1095674	NASL082D	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2L	CM183	S310	—	7/64
1095577	NASL102B	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2L	CM75	S310	—	7/64
1095575	NASL083D	.500	.500	.500	6.00	1.25	.50	.210	.125	1.32	N.3L	CM185LP	—	S2112	25 IP
1095672	NASL103B	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3L	CM185LP	—	S2112	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.

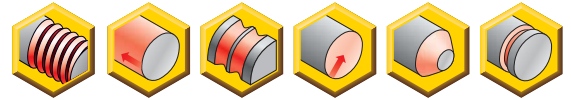
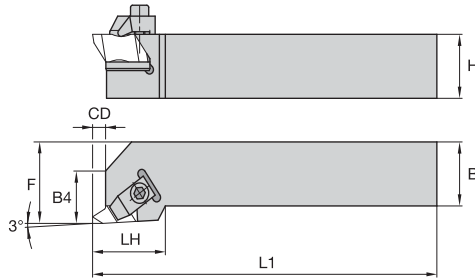
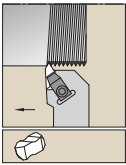


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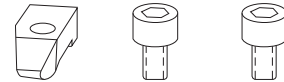


order number	catalog number	H	B	F	L1	LH	B4	CD	L4	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand														
1095581	NER062	.375	.375	.750	2.50	.50	—	.138	1.000	N.2L	CM75	S310	—	7/64
1097577	NER082V	.500	.500	.750	3.50	.50	—	.138	1.000	N.2L	CM75	S310	—	7/64
1097578	NER102B	.625	.625	.750	4.50	—	—	.138	1.000	N.2L	CM75	S310	—	7/64
1097559	NER122B	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2L	CM75	S310	—	7/64
1097560	NER162C	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2L	CM75	S310	—	7/64
1097561	NER123B	.750	.750	1.125	4.50	.75	—	.210	2.000	N.3L	CM73LP	—	S2112	25 IP
1097562	NER163C	1.000	1.000	1.250	5.00	.75	—	.210	2.000	N.3L	CM73LP	—	S2112	25 IP
1097565	NER163D	1.000	1.000	1.250	6.00	.75	—	.210	2.000	N.3L	CM73LP	—	S2112	25 IP
1097563	NER203D	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3L	CM73LP	—	S2112	25 IP
1097566	NER853D	1.250	1.000	1.250	6.00	.75	—	.210	2.000	N.3L	CM73LP	—	S2112	25 IP
1097564	NER243D	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3L	CM73LP	—	S2112	25 IP
1097567	NER164C	1.000	1.000	1.375	5.00	.75	—	.294	2.000	N.4L	CM73LP	—	S2112	25 IP
1097570	NER164D	1.000	1.000	1.375	6.00	.75	—	.294	2.000	N.4L	CM73LP	—	S2112	25 IP
1097568	NER204D	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4L	CM73LP	—	S2112	25 IP
1097569	NER244D	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4L	CM73LP	—	S2112	25 IP
1097575	NER205D	1.250	1.250	2.000	6.00	1.44	—	.415	2.000	N.5L	CM81	S352	—	1/4
1097571	NER206D	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6L	CM121	S412	—	5/32
left hand														
1095580	NEL062	.375	.375	.750	2.50	.50	—	.138	1.000	N.2R	CM74	S310	—	7/64
1097247	NEL082V	.500	.500	.750	3.50	.50	—	.138	1.000	N.2R	CM74	S310	—	7/64
1097248	NEL102B	.625	.625	.750	4.50	—	—	.138	1.000	N.2R	CM74	S310	—	7/64
1097231	NEL122B	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2R	CM74	S310	—	7/64
1097232	NEL162C	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2R	CM74	S310	—	7/64
1097233	NEL123B	.750	.750	1.125	4.50	.75	—	.210	2.000	N.3R	CM72LP	—	S2112	25 IP
1097234	NEL163C	1.000	1.000	1.250	5.00	.75	—	.210	2.000	N.3R	CM72LP	—	S2112	25 IP
1097237	NEL163D	1.000	1.000	1.250	6.00	.75	—	.210	2.000	N.3R	CM72LP	—	S2112	25 IP
1097235	NEL203D	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3R	CM72LP	—	S2112	25 IP
1097238	NEL853D	1.250	1.000	1.250	6.00	.75	—	.210	2.000	N.3R	CM72LP	—	S2112	25 IP
1097236	NEL243D	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3R	CM72LP	—	S2112	25 IP
1097239	NEL164C	1.000	1.000	1.375	5.00	.75	—	.294	2.000	N.4R	CM72LP	—	S2112	25 IP
1097242	NEL164D	1.000	1.000	1.375	6.00	.75	—	.294	2.000	N.4R	CM72LP	—	S2112	25 IP
1097240	NEL204D	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4R	CM72LP	—	S2112	25 IP
1097241	NEL244D	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4R	CM72LP	—	S2112	25 IP
1097246	NEL205D	1.250	1.250	2.000	6.00	1.44	—	.415	2.000	N.5R	CM80	S352	—	1/4
1097243	NEL206D	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6R	CM120	S412	—	5/32

NOTE: F dimension measured over sharp point of N-style threading insert.



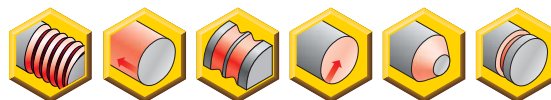
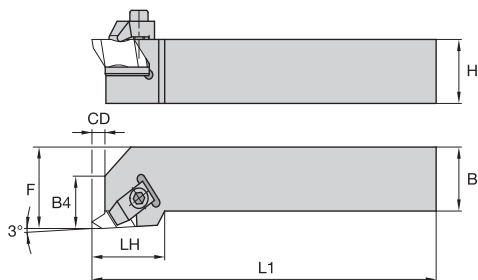
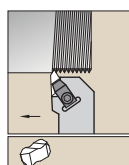
■ NS



Threading

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand													
1095583	NSR062	.375	.375	.562	2.50	.75	.35	.138	N.2R	CM74	S310	—	7/64
1097608	NSR082V	.500	.500	.750	3.50	.75	.35	.138	N.2R	CM74	S310	—	7/64
1097609	NSR102B	.625	.625	.875	4.50	.75	.35	.138	N.2R	CM74	S310	—	7/64
1097584	NSR122B	.750	.750	1.000	4.50	.75	.35	.138	N.2R	CM74	S310	—	7/64
1097585	NSR162C	1.000	1.000	1.250	5.00	.75	.35	.138	N.2R	CM74	S310	—	7/64
1097590	NSR123A	.750	.750	1.000	4.00	1.25	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097586	NSR123B	.750	.750	1.000	4.50	1.25	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097587	NSR163C	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1016462	NSR163D	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097588	NSR203D	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097591	NSR853D	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097589	NSR243D	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097596	NSR243E	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3R	CM72LP	—	S2112	25 IP
1097601	NSR205D	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5R	CM80	S352	—	1/4
1016474	NSR245D	1.500	1.500	2.000	6.00	2.00	.61	.415	N.5R	CM80	S352	—	1/4
left hand													
1095582	NSL062	.375	.375	.562	2.50	.75	.35	.138	N.2L	CM75	S310	—	7/64
1097278	NSL082V	.500	.500	.750	3.50	.75	.35	.138	N.2L	CM75	S310	—	7/64
1097279	NSL102B	.625	.625	.875	4.50	.75	.35	.138	N.2L	CM75	S310	—	7/64
1097254	NSL122B	.750	.750	1.000	4.50	.75	.35	.138	N.2L	CM75	S310	—	7/64
1097255	NSL162C	1.000	1.000	1.250	5.00	.75	.35	.138	N.2L	CM75	S310	—	7/64
1097261	NSL123A	.750	.750	1.000	4.00	1.25	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097256	NSL123B	.750	.750	1.000	4.50	1.25	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097257	NSL163C	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097260	NSL163D	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097258	NSL203D	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097262	NSL853D	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097259	NSL243D	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097267	NSL243E	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3L	CM73LP	—	S2112	25 IP
1097272	NSL205D	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5L	CM81	S352	—	1/4

NOTE: F dimension measured over sharp point of N-style threading insert.

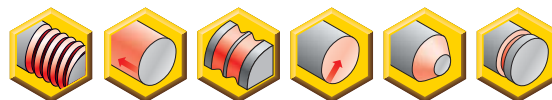
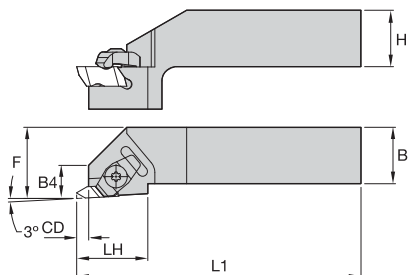
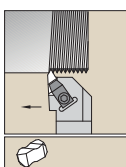


■ NS (with Shim)



order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	shim	shim screw	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand															
1097592	NSR164C	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097595	NSR164D	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097600	NSR204C	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097593	NSR204D	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097594	NSR244D	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097597	NSR244E	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097598	NSR854D	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097599	NSR864E	1.500	1.000	1.250	7.00	1.38	.54	.294	N.4R	SM420	SL344	CM72LP	—	S2112	25 IP
1097604	NSR166D	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6R	SM416	S111	CM120	S412	—	5/32
1097602	NSR206D	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6R	SM416	S111	CM120	S412	—	5/32
1097603	NSR246D	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6R	SM416	S111	CM120	S412	—	5/32
1097605	NSR168D	1.000	1.000	1.250	6.00	1.25	.72	.225	N.8R	SM419	S112	CM144	S422	—	3/16
left hand															
1097263	NSL164C	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097266	NSL164D	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097271	NSL204C	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097264	NSL204D	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097265	NSL244D	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097268	NSL244E	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097269	NSL854D	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4L	SM420	SL344	CM73LP	—	S2112	25 IP
1097275	NSL166D	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6L	SM416	S111	CM121	S412	—	5/32
1097273	NSL206D	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6L	SM416	S111	CM121	S412	—	5/32
1097274	NSL246D	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6L	SM416	S111	CM121	S412	—	5/32

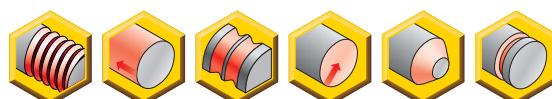
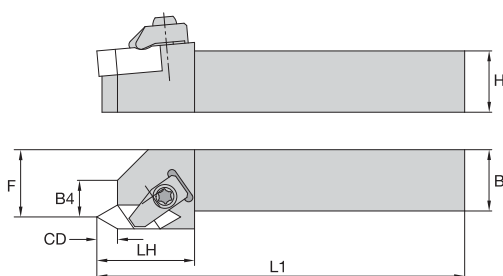
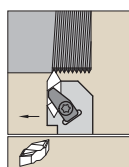
NOTE: F dimension measured over sharp point of N-style threading insert.



■ NS-DH

order number	catalog number	H	B	F	L1	L2	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus	jack screw	hex (inch)
right hand															
1097644	NSRDH122B	.750	.750	1.000	4.50	.75	.40	.130	N.2R	CM74	S310	—	7/64	S1020	1/8
1097645	NSRDH162C	1.000	1.000	1.250	5.00	.75	.40	.138	N.2R	CM74	S310	—	7/64	S1020	1/8
1097649	NSRDH123A	.750	.750	1.250	4.00	1.25	.58	.210	N.3R	CM72LP	—	S2112	25 IP	—	—
1097646	NSRDH163C	1.000	1.000	1.250	5.00	1.25	.58	.210	N.3R	CM72LP	—	S2112	25 IP	—	—
1097648	NSRDH163D	1.000	1.000	1.250	6.00	1.25	.58	.210	N.3R	CM72LP	—	S2112	25 IP	—	—
1097647	NSRDH203D	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3R	CM72LP	—	S2112	25 IP	S965	3/16
1097650	NSRDH204D	1.250	1.250	1.500	6.00	1.38	.62	.294	N.4R	CM72LP	—	S2112	25 IP	S965	3/16
left hand															
1097681	NSLDH203D	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3L	CM73LP	—	S2112	25 IP	S965	3/16

NOTE: F dimension measured over sharp point of N-style threading insert.

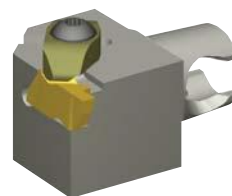
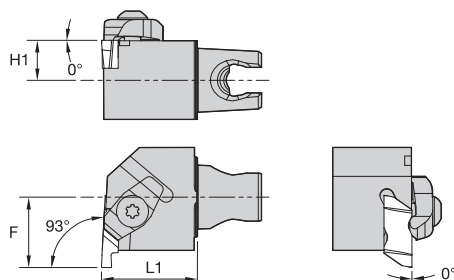


■ NSU

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand												
1097673	NSUR124C	.750	.750	.875	5.00	1.25	.50	.240	NTU4R	CM72LP	S2112	25 IP
1097676	NSUR164D	1.000	1.000	1.125	6.00	1.25	.50	.240	NTU4R	CM72LP	S2112	25 IP
left hand												
1097680	NSUL164D	1.000	1.000	1.125	6.00	1.25	.50	.240	NTU4L	CM73LP	S2112	25 IP

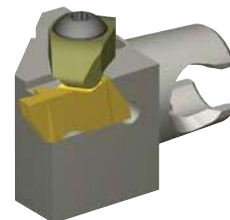
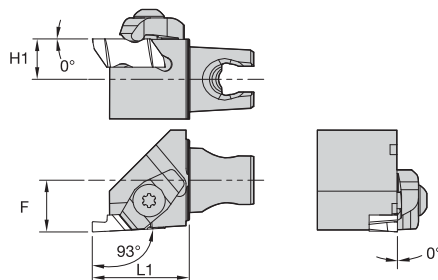
NOTE: Toolholders only for threading inserts NTU4...

F dimension measured over sharp point of Top Notch style threading insert.



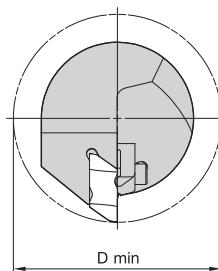
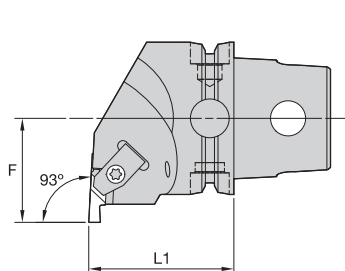
■ NE 93°

											
order number	catalog number	L1		F		H1		gage insert	clamp	clamp screw	clamp screw
		mm	in	mm	in	mm	in				
right hand											
2399462	KM25NER230	30	1.181	22	.866	12,5	.492	NG2L	CM75	—	MS1200
2399494	KM25NER330	30	1.181	22	.866	12,5	.492	NG3L	CM73LP	MS2111	—
2399496	KM25NER430	30	1.181	24	.945	12,5	.492	NG4L	CM73LP	MS2111	—
left hand											
2399495	KM25NEL330	30	1.181	22	.866	12,5	.492	NG3R	CM72LP	MS2111	—
2399497	KM25NEL430	30	1.181	24	.945	12,5	.492	NG4R	CM72LP	MS2111	—



■ NS 93°

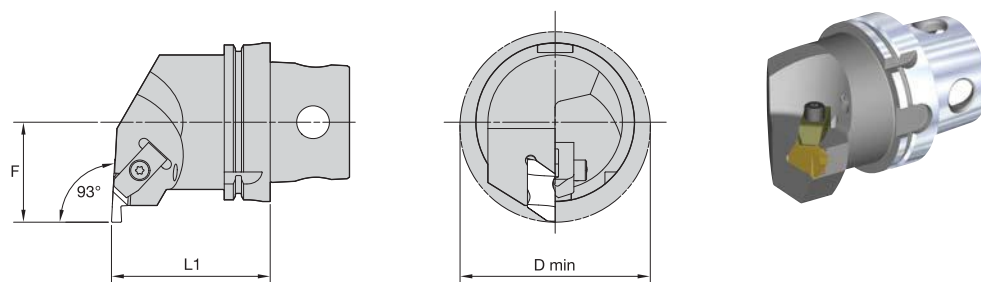
											
		L1		F		H1					
order number	catalog number	mm	in	mm	in	mm	in	gage insert	clamp	clamp screw	clamp screw
right hand											
2399498	KM25NSR230	30	1.181	16	.630	12,5	.492	NG2R	CM74	—	MS1200
2399500	KM25NSR330	30	1.181	16	.630	12,5	.492	NG3R	CM72LP	MS2111	—
left hand											
2399499	KM25NSL230	30	1.181	16	.630	12,5	.492	NG2L	CM75	—	MS1200
2399501	KM25NSL330	30	1.181	16	.630	12,5	.492	NG3L	CM73LP	MS2111	—
2399503	KM25NSL430	30	1.181	16	.630	12,5	.492	NG4L	CM213LP	MS2111	—



■ NE 93°



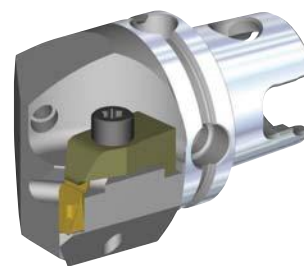
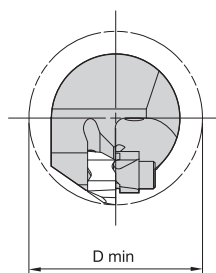
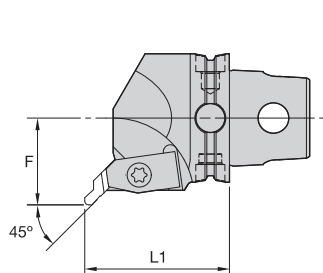
order number	catalog number	L1		F		D min		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in					
right hand												
3902285	KM40TSNER2	40	1.575	27	1.063	54	2.126	NG2L	CM75	MS1488	0,30	.66
3902286	KM40TSNER3	40	1.575	27	1.063	54	2.126	NG3L	CM73	MS1489	0,30	.67
3902287	KM40TSNER4	40	1.575	27	1.063	54	2.126	NG4L	CM73	MS1489	0,30	.65
left hand												
3902132	KM40TSNEL2	40	1.575	27	1.063	54	2.126	NG2R	CM74	MS1488	0,30	.66
3902283	KM40TSNEL3	40	1.575	27	1.063	54	2.126	NG3R	CM-72	MS1489	0,30	.67
3902284	KM40TSNEL4	40	1.575	27	1.063	54	2.126	NG4R	CM-72	MS1489	0,30	.65



■ NE



order number	catalog number	L1		F		D min		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in					
right hand												
5337758	KM4X100NER3	100	3.937	63	2.480	120	4.724	NG3L	CM73	MS1489	4,45	9.80
5337759	KM4X100NER4	100	3.937	63	2.480	120	4.724	NG4L	CM73	MS1489	4,51	9.93
5337770	KM4X100NER5	100	3.937	63	2.480	120	4.724	NG5L	CM81	MS1490	4,65	10.25
5337771	KM4X100NER6	100	3.937	63	2.480	120	4.724	NG6L	CM121	MS1489	4,48	9.88
left hand												
5337754	KM4X100NEL3	100	3.937	63	2.480	120	4.724	NG3R	CM-72	MS1489	4,45	9.80
5337755	KM4X100NEL4	100	3.937	63	2.480	120	4.724	NG4R	CM-72	MS1489	4,51	9.93
5337756	KM4X100NEL5	100	3.937	63	2.480	120	4.724	NG5R	CM80	MS1490	4,65	10.25
5337757	KM4X100NEL6	100	3.937	63	2.480	120	4.724	NG6R	CM120	MS1489	4,48	9.88

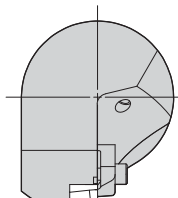
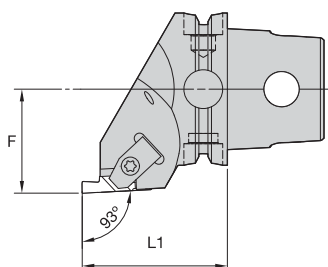


Threading

■ NR 45°



order number	catalog number	L1		F		D min		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in					
right hand												
3902289	KM40TSNRR3045M	45	1.772	27	1.063	54	2.126	NU3L	CM73	MS1489	0,34	.75
left hand												
3902288	KM40TSNRL3045M	45	1.772	27	1.063	54	2.126	NU3R	CM-72	MS1489	0,33	.74



■ NS 93°



order number	catalog number	L1		F		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in					
right hand										
3902293	KM40TSNSR2	40	1.575	27	1.063	NG2R	CM74	MS1488	0,32	.70
3902294	KM40TSNSR3	47	1.850	27	1.063	NG3R	CM-72	MS1489	0,32	.71
3902295	KM40TSNSR4	47	1.850	27	1.063	NG4R	CM-72	MS1489	0,30	.66
left hand										
3902290	KM40TSNSL2	40	1.575	27	1.063	NG2L	CM75	MS1488	0,32	.70
3902291	KM40TSNSL3	47	1.850	27	1.063	NG3L	CM73	MS1489	0,33	.72
3902292	KM40TSNSL4	47	1.850	27	1.063	NG4L	CM73	MS1489	0,30	.66

How Do Catalog Numbers Work?

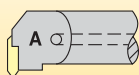
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

A32NER3

A

Bar
Type

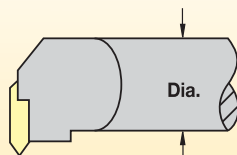
Steel with coolant



32

Bar
Diameter

A two-digit number that indicates the bar diameter in 1/16" increments.



N

Insert
Holding
Method

N — Top Notch*

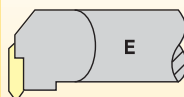


*Proprietary standard only.

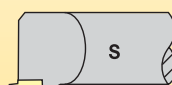
E

Insert
Location

E = End mount



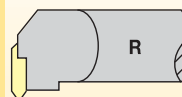
S = Side mount



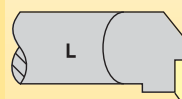
R

Hand
of Tool

R = Right hand

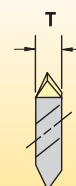


L = Left hand

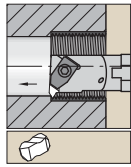


3

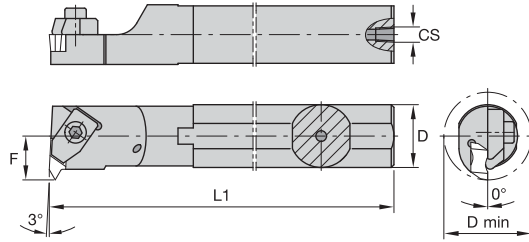
Insert
Size



insert size	T
1	.100"
2	.150"
3	.195"
4	.255"
5	.380"
6	.383"
8	.438"



Steel shank with through coolant.

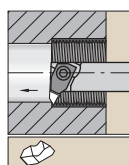


A-NE

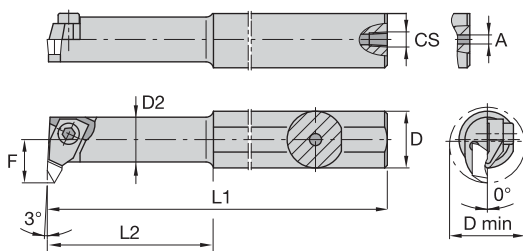


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp	clamp	hex (inch)/ Torx Plus
right hand											
1094824	A08NER2	.730	.500	8	.437	1/16-27 NPT	N.2L	CM147	—	S39	7/64
1094829	A10SNER2	1.000	.625	10	.500	1/8-27 NPT	N.2L	CM75	—	S310	7/64
1094831	A12SNER2	1.125	.750	10	.562	1/8-27 NPT	N.2L	CM75	—	S310	7/64
1094833	A16TNER2	1.375	1.000	12	.688	1/4-18 NPT	N.2L	CM75	—	S310	7/64
1094835	A16NER3	1.375	1.000	12	.688	1/4-18 NPT	N.3L	CM73LP	S2112	—	25 IP
1094837	A20NER3	1.750	1.250	14	.875	1/4-18 NPT	N.3L	CM73LP	S2112	—	25 IP
1094839	A24NER3	2.000	1.500	14	1.000	1/4-18 NPT	N.3L	CM73LP	S2112	—	25 IP
1094841	A28NER3	2.250	1.750	14	1.125	1/4-18 NPT	N.3L	CM73LP	S2112	—	25 IP
1094843	A32NER3	2.500	2.000	16	1.250	1/4-18 NPT	N.3L	CM73LP	S2112	—	25 IP
1094845	A40NER3	3.000	2.500	16	1.500	1/4-18 NPT	N.3L	CM73LP	S2112	—	25 IP
1094847	A28NER4	2.500	1.750	14	1.250	1/4-18 NPT	N.4L	CM73LP	S2112	—	25 IP
1094849	A32NER4	2.750	2.000	16	1.375	1/4-18 NPT	N.4L	CM73LP	S2112	—	25 IP
1094853	A40NER4	3.250	2.500	16	1.625	1/4-18 NPT	N.4L	CM73LP	S2112	—	25 IP
1094859	A32NER6	2.750	2.000	16	1.375	1/4-18 NPT	N.6L	CM121	S2112	—	5/32
left hand											
1094825	A08NEL2	.730	.500	8	.437	1/16-27 NPT	N.2R	CM146	—	S39	7/64
1094830	A10SNEL2	1.000	.625	10	.500	1/8-27 NPT	N.2R	CM74	—	S310	7/64
1094832	A12NEL2	1.125	.750	10	.562	1/8-27 NPT	N.2R	CM74	—	S310	7/64
1094834	A16TNEL2	1.375	1.000	12	.688	1/4-18 NPT	N.2R	CM74	—	S310	7/64
1094836	A16NEL3	1.375	1.000	12	.688	1/4-18 NPT	N.3R	CM72LP	S2112	—	25 IP
1094838	A20NEL3	1.750	1.250	14	.875	1/4-18 NPT	N.3R	CM72LP	S2112	—	25 IP
1094840	A24NEL3	2.000	1.500	14	1.000	1/4-18 NPT	N.3R	CM72LP	S2112	—	25 IP
1094842	A28NEL3	2.250	1.750	14	1.125	1/4-18 NPT	N.3R	CM72LP	S2112	—	25 IP
1094844	A32NEL3	2.500	2.000	16	1.250	1/4-18 NPT	N.3R	CM72LP	S2112	—	25 IP
1094846	A40NEL3	3.000	2.500	16	1.500	1/4-18 NPT	N.3R	CM72LP	S2112	—	25 IP
1094848	A28NEL4	2.500	1.750	14	1.250	1/4-18 NPT	N.4R	CM72LP	S2112	—	25 IP
1094850	A32NEL4	2.750	2.000	16	1.375	1/4-18 NPT	N.4R	CM72LP	S2112	—	25 IP
1094856	A32NEL5	2.812	2.000	16	1.406	1/4-18 NPT	N.5R	CM80	—	S352	1/4
1094860	A32NEL6	2.750	2.000	16	1.375	1/4-18 NPT	N.6R	CM120	S2112	—	5/32

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Necked steel shank with through coolant.

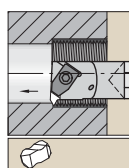


A-NE -1

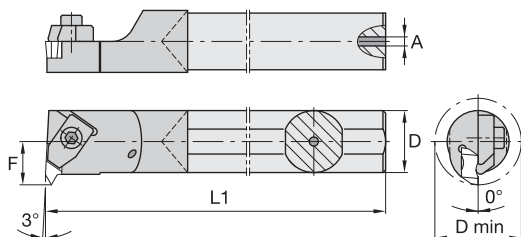


order number	catalog number	D min	D	D2	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex/Torx Plus
right hand													
1094826	A06NER1	.440	.375	—	6	1.25	.258	.13	—	N.1L	CM109	S304	5/64
1094827	A08NER1	.440	.500	.372	8	1.29	.258	.09	1/16-27 NPT	N.1L	CM109	S304	5/64
1094828	A10NER1	.800	.625	—	10	—	.406	—	1/8-27 NPT	N.1L	CM109	S304	5/64

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Carbide shank with through coolant.

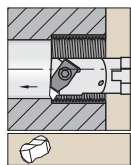


E-NE

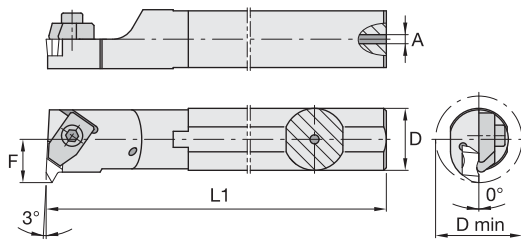


order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	hex (inch)/Torx Plus
right hand										
1152688	E08NER2	.730	.500	8	.437	.19	N.2L	CM147	S39	7/64
1152606	E10NER2	1.000	.625	10	.500	.22	N.2L	CM75	S310	7/64
1152608	E12NER2	1.125	.750	10	.562	.28	N.2L	CM75	S310	7/64
1152610	E16NER3	1.375	1.000	12	.688	.31	N.3L	CM73	S412	25 IP
left hand										
1152689	E08NEL2	.730	.500	8	.437	.19	N.2R	CM146	S39	7/64
1152607	E10NEL2	1.000	.625	10	.500	.22	N.2R	CM74	S310	7/64
1152609	E12NEL2	1.125	.750	10	.562	.28	N.2R	CM74	S310	7/64
1152611	E16NEL3	1.375	1.000	12	.688	.31	N.3R	CM-72	S412	25 IP

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



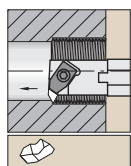
Heavy metal shank with through coolant.



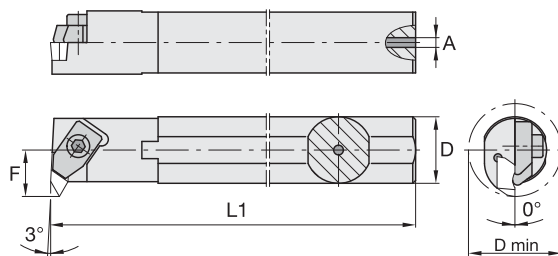
L-NE

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
3331091	L08RNER2	.730	.500	8	.432	.16	N.2L	CM147	—	S39	7/64
3331103	L10RNER2	1.000	.625	8	.495	.16	N.2L	CM75	—	S310	7/64
3331092	L12RNER2	1.125	.750	8	.557	.16	N.2L	CM75	—	S310	7/64
3331105	L16SNER3	1.375	1.000	10	.683	.25	N.3L	CM73LP	S2112	—	25 IP
left hand											
3331084	L08RNEL2	.730	.500	8	.432	.16	N.2R	CM146	—	S39	7/64

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



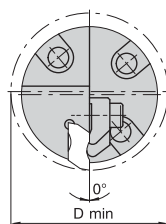
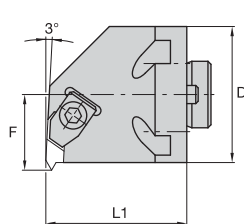
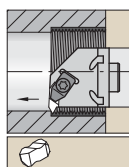
Heavy metal shank with through coolant.



L-NE-S

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
3331089	L08RNER1S	.600	.500	8	.325	.16	NG1L	CM109	S304	—	5/64
3331090	L05MNER1S	.440	.310	6	.258	.09	N.1L	CM109	S304	—	5/64
3331088	L06MNER1S	.480	.370	6	.265	.13	N.1L	CM109	S304	—	5/64

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Threading

■ H-NE

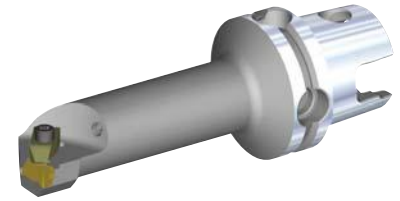
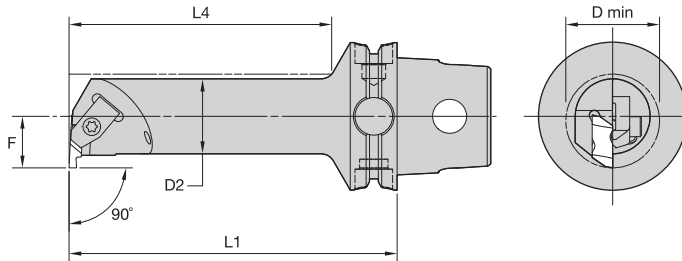


order number	catalog number	D min	D	F	L1	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand													
1095314	H20NER3W	1.750	1.250	.875	1.625	N.3L	—	—	—	CM73LP	S2112	—	25 IP
1095362	H24NER3W	2.000	1.500	1.000	1.625	N.3L	—	—	—	CM73LP	S2112	—	25 IP
1095418	H28NER3W	2.250	1.750	1.125	1.625	N.3L	—	—	—	CM73LP	S2112	—	25 IP
1095456	H32NER3W	2.500	2.000	1.250	1.625	N.3L	—	—	—	CM73LP	S2112	—	25 IP
1095533	H40NER3W	3.000	2.500	1.500	1.625	N.3L	—	—	—	CM73LP	S2112	—	25 IP
1095421	H28NER4W	2.500	1.750	1.250	1.625	N.4L	—	—	—	CM73LP	S2112	—	25 IP
1095458	H32NER4W	2.750	2.000	1.375	1.625	N.4L	—	—	—	CM73LP	S2112	—	25 IP
1095516	H36NER4W	3.000	2.250	1.500	1.625	N.4L	—	—	—	CM73LP	S2112	—	25 IP
1095535	H40NER4W	3.250	2.500	1.625	1.625	N.4L	—	—	—	CM73LP	S2112	—	25 IP
1095452	H28NER6W	2.500	1.750	1.250	1.625	N.6L	—	—	—	CM121	—	S412	5/32
1095512	H32NER6W	2.750	2.000	1.375	1.625	N.6L	—	—	—	CM121	—	S412	5/32
1095571	H40NER6W	3.250	2.500	1.625	1.625	N.6L	—	—	—	CM121	—	S412	5/32
1095367	H24NER8W	2.000	1.500	1.000	1.625	N.8L	SM427	S111	1/16	CM145	—	S422	3/16
left hand													
1095315	H20NEL3W	1.750	1.250	.875	1.625	N.3R	—	—	—	CM72LP	S2112	—	25 IP
1095363	H24NEL3W	2.000	1.500	1.000	1.625	N.3R	—	—	—	CM72LP	S2112	—	25 IP
1095419	H28NEL3W	2.250	1.750	1.125	1.625	N.3R	—	—	—	CM72LP	S2112	—	25 IP
1095457	H32NEL3W	2.500	2.000	1.250	1.625	N.3R	—	—	—	CM72LP	S2112	—	25 IP
1095534	H40NEL3W	3.000	2.500	1.500	1.625	N.3R	—	—	—	CM72LP	S2112	—	25 IP
1095459	H32NEL4W	2.750	2.000	1.375	1.625	N.4R	—	—	—	CM72LP	S2112	—	25 IP
1095536	H40NEL4W	3.250	2.500	1.625	1.625	N.4R	—	—	—	CM72LP	S2112	—	25 IP

NOTE: For boring adapters, see pages B406–B409.

Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.

F dimension measured over sharp point of N-style threading insert.



Threading

■ NE 90° • Steel

order number	catalog number	D2		D min		F		L4		L1		gage insert	kg	lbs
		mm	in	mm	in	mm	in	mm	in	mm	in			
right hand														
3955481	KM40TSS12ENER2	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2L	0,27	.58
3955483	KM40TSS16FNER2	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2L	0,28	.62
3955485	KM40TSS20GNER2	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2L	0,35	.76
3955487	KM40TSS25ENER2	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2L	0,34	.75
3955491	KM40TSS25ENER3	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3L	0,35	.77
3955489	KM40TSS25HNER2	25	.984	32	1.26	17	.669	75	2.954	100	3.937	NG2L	0,49	1.08
3955493	KM40TSS25HNER3	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3L	0,49	1.09
3955497	KM40TSS32GNER3	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3L	0,55	1.21
3955495	KM40TSS32JNER3	32	1.260	40	1.57	22	.866	96	3.780	110	4.331	NG3L	0,67	1.48
left hand														
3955480	KM40TSS12ENEL2	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2R	0,27	.59
3955482	KM40TSS16FNEL2	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2R	0,28	.62
3955484	KM40TSS20GNEL2	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2R	0,35	.76
3955486	KM40TSS25ENEL2	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2R	0,34	.75
3955490	KM40TSS25ENEL3	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3R	0,35	.77
3955492	KM40TSS25HNEL3	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3R	0,49	1.09
3955496	KM40TSS32GNEL3	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3R	0,55	1.21

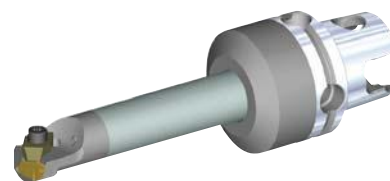
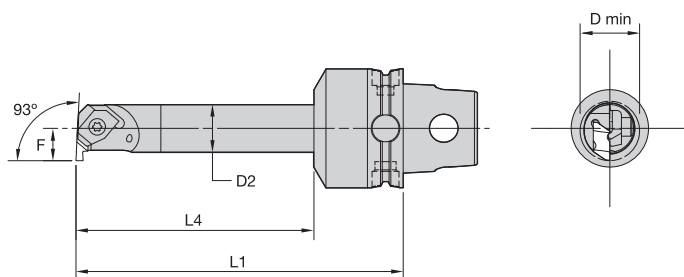
■ Spare Parts



catalog number	clamp	clamp
right hand		
KM40TSS12ENER2	CM147	MS1488
KM40TSS16FNER2	CM147	MS1488
KM40TSS20GNER2	CM75	MS1488
KM40TSS25ENER2	CM75	MS1488
KM40TSS25ENER3	CM73	MS1489
KM40TSS25HNER2	CM75	MS1488
KM40TSS25HNER3	CM73	MS1489
KM40TSS32GNER3	CM73	MS1489
KM40TSS32JNER3	CM73	MS1489
left hand		
KM40TSS12ENEL2	CM146	MS1488
KM40TSS16FNEL2	CM146	MS1488
KM40TSS20GNEL2	CM74	MS1488
KM40TSS25ENEL2	CM74	MS1488
KM40TSS25ENEL3	CM-72	MS1489
KM40TSS25HNEL3	CM-72	MS1489
KM40TSS32GNEL3	CM-72	MS1489



Threading



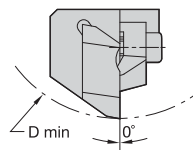
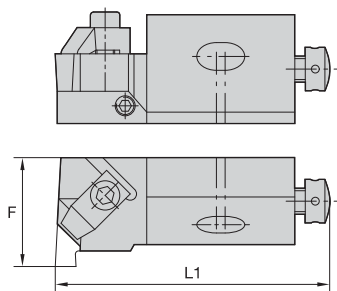
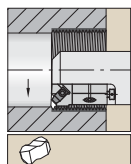
■ NE 90° • Carbide

order number	catalog number	D2		D min		F		L4		L1		gage insert	kg	lbs
		mm	in	mm	in	mm	in	mm	in	mm	in			
right hand														
3951836	KM40TSE16JNER2	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2L	0,41	.90
left hand														
3951835	KM40TSE16JNEL2	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2R	0,41	.90

■ Spare Parts



catalog number		clamp	clamp screw
right hand			
KM40TSE16JNER2		CM146	MS1488
left hand			
KM40TSE16JNEL2		CM147	MS1488



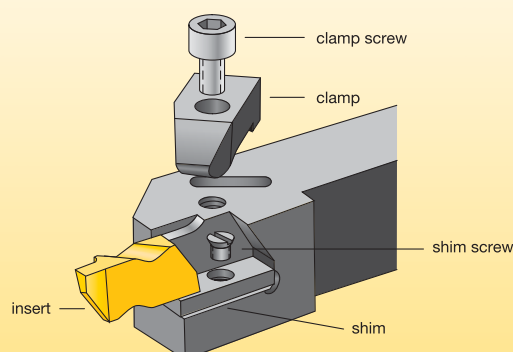
■ Steel Boring Cartridge • Inch

Threading

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	hex	washer	hold down screw
right hand														
1098380	NER12CA2	1.969	.787	2.19	N.2L	CM75	MS1025	2.5 mm	KUAM23	2.5 mm	KUAM31	4 mm	CSWM 060 050	191.406
left hand														
1098624	NEL12CA2	1.969	.787	2.17	N.2R	CM74	MS1025	2.5 mm	KUAM23	2.5 mm	KUAM31	4 mm	CSWM 060 050	191.406
1098626	NEL25CA3	3.937	1.260	3.94	N.3R	CM72LP	MS412	4 mm	KUAM26	4 mm	KUAM33	6 mm	CSWM 100 080	—

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.

Toolholders and Boring Bars



				
insert size and style	clamp	clamp screw	shim	shim screw
NG-1L 	CM-109	S-304	–	–
NG-2R	CM-182	S-310	–	–
NG-2L	CM-183	S-310	–	–
NG-2R 	CM-74	S-310	–	–
NG-2L	CM-75	S-310	–	–
NG-3R	CM-184	S-412	–	–
NG-3L	CM-185	S-412	–	–
NG-3R	CM-72	S-412	–	–
NG-3L 	CM-73	S-412	–	–
NG-3R*	CM-78	S-412	–	–
NG-3L*	CM-70	S-412	–	–
NG-4R	CM-72	S-412	SM-420	SL-344
NG-4L 	CM-73	S-412	SM-420	SL-344
NG-5R	CM-80	S-352	–	–
NG-5L 	CM-81	S-352	–	–
NG-6R	CM-120	S-412	SM-416	S-111
NG-6L 	CM-121	S-412	SM-416	S-111
NG-8R	CM-144	S-422	SM-419	S-112
NG-8L	CM-145	S-422	SM-419	S-112
NG-8R** 	CM-144	S-422	SM-427	S-111
NG-8L**	CM-145	S-422	SM-427	S-111
Top Notch relief grooving				
NU-3125R	CM-72	S-412	–	–
NU-3125L	CM-73	S-412	–	–
NU-3125R**	CM-72	S-618	–	–
NU-3125L**	CM-73	S-618	–	–

*25mm diameter boring head.

**Boring head.