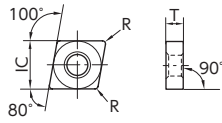


Item Number	IC	T
CN_1204_	12.7	4.76

## <80 degree Rhombic Negative type>



Steel	P															
Stainless Steel	M															
Cast Iron	K			●	●	●	●	●	●	●	●	●	●	●	●	●
Non-Ferrous Material	N															
Heat Resistant Alloy	S	●	●													
Hardened Material	H															

● : 1st Choice  
● : 2nd choice



Shape	ISO Item Number	Inch Item Number	R	Ceramics													For applicable holder, see pages:		
				BIDEMICS		Alumina-based							Silicon nitride-based					Whisker-based	
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9		WA1	WA5
	<b>CNGA 120404 S02025</b>	<b>CNGA431-SNF</b>	0.4							●									
	<b>120404 T01025</b>	<b>431-TN</b>	0.4							●									
	<b>120404 Z02025</b>	<b>431-ZNF</b>	0.4					●											
	<b>120408 S02025</b>	<b>432-SNF</b>	0.8							●									
	<b>120408 T00520</b>	—	0.8										●			●			
	<b>120408 T01020</b>	—	0.8											●		●			
	<b>120408 T01025</b>	<b>432-TN</b>	0.8				●		●	●									
	<b>120408 T02020</b>	—	0.8								●								
	<b>120408 T02025</b>	<b>432-TNF</b>	0.8										●						
	<b>120408 Z02025</b>	<b>432-ZNF</b>	0.8				●												
	<b>120412 S02025</b>	<b>433-SNF</b>	1.2								●								
	<b>120412 T00520</b>	—	1.2											●		●			
	<b>120412 T01020</b>	—	1.2												●	●			
	<b>120412 T01025</b>	<b>433-TN</b>	1.2			●	●		●	●									
	<b>120412 T02020</b>	—	1.2								●								
	<b>120412 T02025</b>	<b>433-TNF</b>	1.2										●						
	<b>120416 T00520</b>	—	1.6											●		●			
	<b>120416 T01020</b>	—	1.6												●				
	<b>120416 T02020</b>	—	1.6								●								
	<b>120416 T02025</b>	<b>434-TNF</b>	1.6										●						
	<b>CNGA 120408 WL T01025</b>	<b>CNGA432WL-TN</b>	0.8							●								<b>F9</b>	<b>K34</b>
	<b>120412 WL T01025</b>	<b>433WL-TN</b>	1.2							●									
	<b>CNGG 120408 Z01030 AG</b>	<b>CNGG432-ZNCGAG</b>	0.8							●								<b>F9</b>	<b>F11</b>
	<b>120412 Z01030 AG</b>	<b>433-ZNCGAG</b>	1.2							●								<b>G40</b>	<b>K34</b>

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

BIDEMICS • Ceramic

Item Number	IC	T
<b>CN_1204</b>	12.7	4.76
<b>CN_1207</b>	12.7	7.94
<b>CN_1607</b>	15.875	7.94

## <80 degree Rhombic Negative type>

				Steel	P															
				Stainless Steel	M															
				Cast Iron	K															
				Non-Ferrous Material	N															
				Heat Resistant Alloy	S															
				Hardened Material	H															
																	● : 1st Choice	● : 2nd choice		
Shape	ISO Item Number	Inch Item Number	R	BIDEMICS		Ceramics											For applicable holder, see pages:			
				JX1	JX3	Alumina-based					Silicon nitride-based				Whisker-based					
						HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5		
	<b>CNGN 120404 T01025</b>	<b>CNGN431-TN</b>	0.4					●		●										
	<b>120408 S02025</b>	<b>432-SNF</b>	0.8								●									
	<b>120408 T00520</b>	—	0.8												●				●	
	<b>120408 T00820</b>	—	0.8																	●
	<b>120408 T01020</b>	—	0.8													●			●	
	<b>120408 T01025</b>	<b>432-TN</b>	0.8					●		●	●									
	<b>120408 T02020</b>	—	0.8										●							
	<b>120408 T02025</b>	<b>432-TNF</b>	0.8				●									●				●
	<b>120408 Z02025</b>	<b>432-ZNF</b>	0.8						●											
	<b>120412 S02025</b>	<b>433-SNF</b>	1.2									●								
	<b>120412 T00520</b>	—	1.2													●				●
	<b>120412 T00820</b>	—	1.2																	●
	<b>120412 T01020</b>	—	1.2														●			●
	<b>120412 T01025</b>	<b>433-TN</b>	1.2				●		●		●	●								●
	<b>120412 T02020</b>	—	1.2										●							
	<b>120412 T02025</b>	<b>433-TNF</b>	1.2				●									●				●
	<b>120412 Z02025</b>	<b>433-ZNF</b>	1.2						●											
	<b>120416 T00520</b>	—	1.6																	●
	<b>120416 T02020</b>	—	1.6										●							
	<b>120416 T01020</b>	—	1.6														●			
	<b>120416 T02025</b>	<b>434-TNF</b>	1.6													●				
	<b>120420 T01025</b>	<b>435-TN</b>	2.0								●									
	<b>CNGN 120708 T00520</b>	—	0.8																	●
<b>120708 T02025</b>	<b>CNGN452-TN</b>	0.8						●												
<b>120712 T02025</b>	<b>453-TN</b>	1.2						●												
<b>CNGN 160716 T00520</b>	—	1.6																	●	
	<b>CNGX 120712 T02025</b>	—	1.2													●				<b>F9</b>
	<b>120716 T02025</b>	—	1.6													●				<b>K34</b>

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

Item Number	IC	T
DN_1504_	12.7	4.76
DN_1507_	12.7	7.94

## <55 degree Rhombic Negative type>

Shape	ISO Item Number	Inch Item Number	R	Ceramics															For applicable holder, see pages:	
				Alumina-based							Silicon nitride-based					Whisker-based				
				BIDEMICS																
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5		
	<b>DNGA 150404 S02025</b>	<b>DNGA431-SNF</b>	0.4																	<div style="display: flex; flex-direction: column; gap: 5px;"> <span style="background-color: #e0f2f1; padding: 2px;">F13</span> <span style="background-color: #e0f2f1; padding: 2px;">F15</span> <span style="background-color: #e0f2f1; padding: 2px;">G41</span> <span style="background-color: #e0f2f1; padding: 2px;">K35</span> </div>
	<b>150404 T01025</b>	<b>431-TN</b>	0.4					●		●	●									
	<b>150404 Z02025</b>	<b>431-ZNF</b>	0.4						●											
	<b>150408 S02025</b>	<b>432-SNF</b>	0.8					●			●									
	<b>150408 T00520</b>	—	0.8													●		●		
	<b>150408 T01020</b>	—	0.8														●			
	<b>150408 T01025</b>	<b>432-TN</b>	0.8					●		●	●									
	<b>150408 T02020</b>	—	0.8										●							
	<b>150408 T02025</b>	<b>432-TNF</b>	0.8													●				
	<b>150408 Z02025</b>	<b>432-ZNF</b>	0.8						●											
	<b>150412 S02025</b>	<b>433-SNF</b>	1.2								●									
	<b>150412 T01020</b>	—	1.2														●	●		
	<b>150412 T01025</b>	<b>433-TN</b>	1.2					●			●									
	<b>150412 T02020</b>	—	1.2										●							
<b>150412 T02025</b>	<b>433-TNF</b>	1.2													●					
	<b>DNGN 150404 T01025</b>	<b>DNGN431-TN</b>	0.4					●											<div style="display: flex; flex-direction: column; gap: 5px;"> <span style="background-color: #e0f2f1; padding: 2px;">F13</span> <span style="background-color: #e0f2f1; padding: 2px;">F15</span> </div>	
	<b>150408 S02025</b>	<b>432-SNF</b>	0.8								●									
	<b>150408 T01025</b>	<b>432-TN</b>	0.8							●	●									
	<b>150408 Z02025</b>	<b>432-ZNF</b>	0.8						●											
	<b>150412 T00520</b>	—	1.2														●			
	<b>150412 T02025</b>	<b>433-TNF</b>	1.2															●		
	<b>DNGG 150408 Z01030 AG</b>	<b>DNGG432-ZNCGAG</b>	0.8								●								<div style="display: flex; flex-direction: column; gap: 5px;"> <span style="background-color: #e0f2f1; padding: 2px;">F13</span> <span style="background-color: #e0f2f1; padding: 2px;">F15</span> <span style="background-color: #e0f2f1; padding: 2px;">G41</span> <span style="background-color: #e0f2f1; padding: 2px;">K35</span> </div>	
	<b>150412 Z01030 AG</b>	<b>433-ZNCGAG</b>	1.2								●									
	<b>DNGX 150716 T02025</b>	—	1.6													●			<div style="display: flex; flex-direction: column; gap: 5px;"> <span style="background-color: #e0f2f1; padding: 2px;">F13</span> <span style="background-color: #e0f2f1; padding: 2px;">F15</span> <span style="background-color: #e0f2f1; padding: 2px;">K35</span> </div>	

● : Standard stock    ● : New standard stock    ■ : Scheduled to be produced by order    ★ : Standard stock (Specified)

## <75 degree Rhombic Negative type>

Item Number	IC	T
EN_1307_	12.7	7.94

Shape	ISO Item Number	Inch Item Number	R	Ceramics															For applicable holder, see pages:
				Alumina-based							Silicon nitride-based					Whisker-based			
				BIDEMICS															
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5	
	<b>ENGN 130708 T02025</b>	<b>ENGN452-TN</b>	0.8					●											—
	<b>130712 T02025</b>	<b>453-TN</b>	1.2					●											

● : Standard stock    ● : New standard stock    ■ : Scheduled to be produced by order    ★ : Standard stock (Specified)

Item Number	IC	T
RN_1204	12.7	4.76
RN_1207	12.7	7.94
RN_1507	15.875	7.94
RN_1907	19.05	7.94
RN_2507	25.4	7.94

### <Round Negative type>

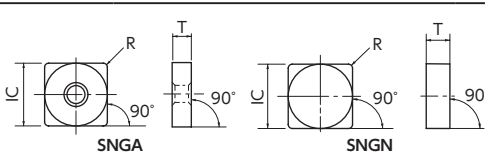
				Steel	P																● : 1st Choice ● : 2nd choice			
				Stainless Steel	M																			
				Cast Iron	K																			
Non-Ferrous Material	N																							
Heat Resistant Alloy	S																							
Hardened Material	H																							
Shape	ISO Item Number	Inch Item Number	R	BIDEMICS	Ceramics															For applicable holder, see pages:				
					Alumina-based							Silicon nitride-based					Whisker-based							
					JX1	JX3	HC1	HW2	HC2	HC4	HC6	HC7	ZC7	SX6	SX7	SX3	SX9	SP9	WA1		WA5			
	RNGN 120400 S02025	RNGN430-SNF	-																					
	120400 T00520	—	-																					
	120400 T00820	—	-																					
	120400 T00525	430-TNB	-																					
	120400 T01020	—	-																					
	120400 T01025	430-TN	-					●																
	120400 T02020	—	-								●													
	120400 T02025	430-TNF	-																					
	120400 Z02025	430-ZNF	-																					
	RNGN 120700 E002	—	-																					
	120700 E004	—	-		●	●																		
	120700 E007	RNGN450-ENC	-					●																
	120700 S02025	450-SNF	-																					
	120700 T00520	—	-																					
	120700 T00525	450-TNB	-																					
	120700 T00820	—	-		●	●																		
	120700 T01020	—	-																					
	120700 T02025	450-TN	-					●																
	120700 Z01520	—	-																					
	120700 Z02025	450-ZNF	-						●															
	120700 K20015	—	-																					
	RNGN 150700 T00520	—	-																					
150700 T00525	RNGN550-TNB	-																						
150700 T00820	—	-																						
RNGN 190700 T00520	—	-																						
190700 T00525	RNGN650-TNB	-																						
190700 T00820	—	-																						
190700 T01020	—	-																						
190700 K20015	—	-																						
RNGN 250700 T00520	—	-																						
250700 T00820	—	-																						

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

- Index
- Information
- Rotating Tools
- Endmills
- Application Introduction
- ID Tooling
- Shaper
- Threading
- Grooving / Side Turning
- Unique Swiss Tooling
- General Turning Toolholders
- Insert Item List
- Micrograin Carbide, PCD, TiAlN Coated Carbide
- Tool Materials / Selection Guide
- New Products

Item Number	IC	T
SN_0903_	9.525	3.18
SN_0904_	9.525	4.76
SN_1204_	12.7	4.76

## <90 degree Square Negative type>



Material	P	M	K	N	S	H
Steel	●					
Stainless Steel	●					
Cast Iron	●		●	●	●	●
Non-Ferrous Material	●		●	●	●	●
Heat Resistant Alloy	●		●	●	●	●
Hardened Material	●		●	●	●	●



● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	R	Ceramics												For applicable holder, see pages:				
				BIDEMICS		Alumina-based					Silicon nitride-based						Whisker-based			
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9		SP9	WA1	WA5	
	SNGA 120408 S02025	SNGA432-SNF	0.8																	F17 F19 K36
	120408 T01025	432-TN	0.8																	
	120408 T02020	—	0.8																	
	120412 S02025	433-SNF	1.2																	
	120412 T01025	433-TN	1.2																	
	120412 T02020	—	1.2																	
	120416 T02020	—	1.6																	
	SNGN 090308 T01025	SNGN322-TN	0.8																	—
	090316 T01025	324-TN	1.6																	
	SNGN 090408 T01025	SNGN332-TN	0.8																	
	SNGN 120404 T01025	SNGN431-TN	0.4																	F17 F19 F21 K36 N12 N14 N16
	120408 S02025	432-SNF	0.8																	
	120408 T00520	—	0.8																	
	120408 T00820	—	0.8																	
	120408 T01020	—	0.8																	
	120408 T01025	432-TN	0.8																	
	120408 T02020	—	0.8																	
	120408 T02025	432-TNF	0.8																	
	120408 Z02025	432-ZNF	0.8																	
	120412 S02025	433-SNF	1.2																	
	120412 T00520	—	1.2																	
	120412 T00820	—	—																	
120412 T01020	—	1.2																		

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

Item Number	IC	T
<b>SN_1204</b>	12.7	4.76
<b>SN_1207</b>	12.7	7.94
<b>SN_1507</b>	15.875	7.94
<b>SN_1906</b>	19.05	6.35
<b>SN_1907</b>	19.05	7.94

## <90 degree Square Negative type>

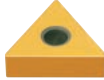

Shape	ISO Item Number	Inch Item Number	R	Ceramics															For applicable holder, see pages:	
				BIDEMICS		Alumina-based							Silicon nitride-based					Whisker-based		
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5		
	<b>SNGN 120412 T01025</b>	<b>SNGN433-TN</b>	1.2			●		●		●	●							●		<b>F17</b> <b>F19</b> <b>F21</b> <b>K36</b> <b>N12</b> <b>N14</b> <b>N16</b>
	<b>120412 T02020</b>	—	1.2											●				●		
	<b>120412 T02025</b>	<b>433-TNF</b>	1.2															●		
	<b>120412 Z02025</b>	<b>433-ZNF</b>	1.2						●											
	<b>120416 S02025</b>	<b>434-SNF</b>	1.6								●									
	<b>120416 T00520</b>	—	1.6															●		
	<b>120416 T01020</b>	—	1.6															●	●	
	<b>120416 T01025</b>	<b>434-TN</b>	1.6			●		●		●	●								●	
	<b>120416 T02020</b>	—	1.6								●									
	<b>120416 T02025</b>	<b>434-TNF</b>	1.6															●		
	<b>120416 Z02025</b>	<b>434-ZNF</b>	1.6						●											
	<b>120420 T01025</b>	<b>435-TN</b>	2					●		●										
	<b>120420 T01020</b>	—	2															●		
	<b>120420 T02020</b>	—	2								●									
	<b>120420 T02025</b>	<b>435-TNF</b>	2			●													●	
	<b>120424 T01025</b>	<b>436-TN</b>	2.4					●												
	<b>120424 T02020</b>	—	2.4								●									
	<b>SNGN 120708 T02025</b>	<b>SNGN452-TN</b>	0.8			●		●												
	<b>120712 S02025</b>	<b>453-SNF</b>	1.2					●												
	<b>120712 T02025</b>	<b>453-TN</b>	1.2					●												
<b>120716 T02025</b>	<b>454-TN</b>	1.6			●															
<b>SNGN 150716 T02025</b>	<b>SNGN554-TN</b>	1.6																●		
<b>SNGN 190616 T00525</b>	<b>SNGN644-TNB</b>	1.6															●			
<b>SNGN 190724 T00525</b>	<b>SNGN656-TNB</b>	2.4															●			
	<b>SNGX 120712 T02025</b>	—	1.2															●	<b>F17</b> <b>K36</b>	
	<b>120716 T02025</b>	—	1.6															●		

● : Standard stock    ● : New standard stock    ■ : Scheduled to be produced by order    ★ : Standard stock (Specified)

- New Products
- Tool Materials / Selection Guide
- BIDEMICS, PCD, CBN and Ceramics
- Micrograin Carbide, PVD Coated Carbide
- Insert Item List
- General Turning Toolholders
- Unique Swiss Tooling
- Grooving / Side Turning
- Threading
- Shaper
- ID Tooling
- Application Introduction
- Endmills
- Rotating Tools
- Information
- Index

Item Number	IC	T
<b>TN_1103</b>	6.35	3.18
<b>TN_1603</b>	9.525	3.18
<b>TN_1604</b>	9.525	4.76



## <60 degree Triangle Negative type>

			Steel	P																		
			Stainless Steel	M																		
			Cast Iron	K																		
			Non-Ferrous Material	N																		
			Heat Resistant Alloy	S																		
			Hardened Material	H																		
Shape	ISO Item Number	Inch Item Number	R	BIDEMICS		Ceramics															For applicable holder, see pages:	
				JX1	JX3	Alumina-based							Silicon nitride-based					Whisker-based				
						HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5				
	<b>TNGA 160404 S02025</b>	<b>TNGA331-SNF</b>	0.4								●											
	<b>160404 T01025</b>	<b>331-TN</b>	0.4								●											
	<b>160404 Z02025</b>	<b>331-ZNF</b>	0.4																			
	<b>160408 S02025</b>	<b>332-SNF</b>	0.8									●										
	<b>160408 T01025</b>	<b>332-TN</b>	0.8																			
	<b>160408 T02020</b>	—	0.8										●									
	<b>160408 T02025</b>	<b>332-TNF</b>	0.8																			
	<b>160408 Z02025</b>	<b>332-ZNF</b>	0.8																			
	<b>160412 S02025</b>	<b>333-SNF</b>	1.2																			
	<b>160412 T01025</b>	<b>333-TN</b>	1.2																			
	<b>160412 T02020</b>	—	1.2																			
	<b>160412 T02025</b>	<b>333-TNF</b>	1.2																			
<b>160416 T02025</b>	<b>334-TNF</b>	1.6																				
	<b>TNGN 110308 T00525</b>	<b>TNGN222-TN</b>	0.8																			
	<b>TNGN 160304 T01025</b>	<b>TNGN321-TN</b>	0.4																			
	<b>TNGN 160404 T01025</b>	<b>TNGN331-TN</b>	0.4																			
	<b>160404 Z02025</b>	<b>331-ZNF</b>	0.4																			
	<b>160408 S02025</b>	<b>332-SNF</b>	0.8																			
	<b>160408 T00820</b>	—	0.8																			
	<b>160408 T01020</b>	—	0.8																			
	<b>160408 T01025</b>	<b>332-TN</b>	0.8																			
	<b>160408 T02020</b>	—	0.8																			
	<b>160408 T02025</b>	<b>332-TNF</b>	0.8																			
	<b>160408 Z02025</b>	<b>332-ZNF</b>	0.8																			
	<b>160412 S02025</b>	<b>333-SNF</b>	0.8																			
	<b>160412 T00820</b>	—	1.2																			
	<b>160412 T01020</b>	—	1.2																			
	<b>160412 T01025</b>	<b>333-TN</b>	1.2																			
	<b>160412 T02020</b>	—	1.2																			
<b>160412 T02025</b>	<b>333-TNF</b>	1.2																				
<b>160412 Z02025</b>	<b>333-ZNF</b>	1.2																				

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

Item Number	IC	T
<b>TN_1604</b>	9.525	4.76
<b>TN_1607</b>	9.525	7.94
<b>TN_2204</b>	12.7	4.76
<b>TN_2207</b>	12.7	7.94

## <60 degree Triangle Negative type>

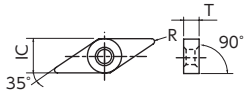
Shape	ISO Item Number	Inch Item Number	R	BIDEMICS		Ceramics										For applicable holder, see pages:					
				JX1	JX3	Alumina-based					Silicon nitride-based				Whisker-based						
						HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5			
	<b>TNGN 160416 T01020</b>	—	1.6																		
	<b>160416 T01025</b>	<b>TNGN334-TN</b>	1.6			●	●	●													
	<b>160416 T02020</b>	—	1.6										●								
	<b>160416 T02025</b>	<b>334-TNF</b>	1.6													●					
	<b>160420 T01025</b>	<b>335-TN</b>	1.6			●		●													
	<b>160420 T02020</b>	—	2										●								
	<b>TNGN 160708 T02025</b>	<b>TNGN352-TN</b>	0.8					●													
	<b>160712 T02025</b>	<b>353-TN</b>	1.2					●													
	<b>TNGN 220416 T00520</b>	—	1.6																	●	
	<b>TNGN 220716 T00520</b>	—	1.6																	●	
	<b>TNGG 160408 Z01030 AG</b>	<b>TNGG332-ZNCGAG</b>	0.8								●										<b>F23</b>
	<b>160412 Z01030 AG</b>	<b>333-ZNCGAG</b>	1.2								●										

● : Standard stock    ● : New standard stock    ■ : Scheduled to be produced by order    ★ : Standard stock (Specified)



Item Number	IC	T
<b>VN_1604_</b>	9.525	4.76
<b>VN_2204_</b>	12.7	4.76

### <35 degree Rhombic Negative type>



Steel	P																							
Stainless Steel	M																							
Cast Iron	K																							
Non-Ferrous Material	N																							
Heat Resistant Alloy	S																							
Hardened Material	H																							

● : 1st Choice  
● : 2nd choice

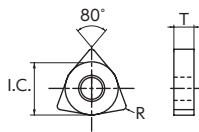
Shape	ISO Item Number	Inch Item Number	R	Ceramics																For applicable holder, see pages:					
				BIDEMICS		Alumina-based							Silicon nitride-based					Whisker-based							
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5							
	<b>VNGA 160404 S02025</b>	<b>VNGA331-SNF</b>	0.4																						
	<b>160404 T01020</b>	—	0.4																						
	<b>160404 T01025</b>	<b>331-TN</b>	0.4																						
	<b>160404 Z02025</b>	<b>331-ZNF</b>	0.4																						
	<b>160408 S02025</b>	<b>332-SNF</b>	0.8																						
	<b>160408 T00520</b>	—	0.8																						
	<b>160408 T01020</b>	—	0.8																						
	<b>160408 T01025</b>	<b>332-TN</b>	0.8																						
	<b>160408 Z02025</b>	<b>332-ZNF</b>	0.8																						
	<b>160412 S02025</b>	<b>333-SNF</b>	1.2																						
	<b>160412 T01020</b>	—	1.2																						
	<b>160412 T01025</b>	<b>333-TN</b>	1.2																						
	<b>160412 Z02025</b>	<b>333-ZNF</b>	1.2																						
<b>VNGA 220424 T01020</b>	—	—	2.4																						

**F27**

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

Item Number	IC	T
<b>WN_0804_</b>	12.7	4.76

### <80 degree Hexagon Negative type>



Steel	P																						
Stainless Steel	M																						
Cast Iron	K																						
Non-Ferrous Material	N																						
Heat Resistant Alloy	S																						
Hardened Material	H																						

● : 1st Choice  
● : 2nd choice

Shape	ISO Item Number	Inch Item Number	R	Ceramics																For applicable holder, see pages:			
				BIDEMICS		Alumina-based							Silicon nitride-based					Whisker-based					
				JX1	JX3	HC1	HW2	HC2	HC4	HC6	ZC7	SX6	SX7	SX3	SX9	SP9	WA1	WA5					
	<b>WNGA 080408 T00520</b>	—	0.8																				
	<b>080408 T01020</b>	—	0.8																				
	<b>080408 T02020</b>	—	0.8																				
	<b>080412 T00520</b>	—	1.2																				
	<b>080412 T01020</b>	—	1.2																				
	<b>080412 T02020</b>	—	1.2																				
	<b>080416 T02020</b>	—	—	1.6																			

**F29**  
**K37**

● : Standard stock   ● : New standard stock   ■ : Scheduled to be produced by order   ★ : Standard stock (Specified)

BIDEMICS • Ceramic

Negative type  
Positive type

G  
D  
E

R  
S

T  
V  
W

For Machining Mill Tools