

**WIDIA™ Turning Toolholders  
and Boring Bars  
ADVANCES 2015**

**WIDIA** ™

# Turning Toolholders

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Tools for External Machining .....2-29

Tools for Internal Machining .....30-52

## Tools for External Turning

Modern machining operations performed on CNC machine tools and flexible production facilities require high-performance tools that provide straightforward design and application versatility. WIDIA™ offers an extensive range of toolholders for external turning to meet even the most exacting production demands across a broad spectrum of workpiece shapes and sizes.

Whatever your operation requirements — from light finishing cuts at very high cutting speeds to heavy roughing applications — there is a WIDIA solution to meet your needs. The complete program includes toolholders for pin-, screw-, or clamp-type holding.



### D-Style Clamping

- Used for negative style inserts.
- Clamp assembly contains clamp, screw, and retaining ring.
- Quick insert indexing.
- Ensures insert repeatability and seating.
- Reduced chatter and extended tool life.

### P-Style Clamping

- Lever-type clamping system for negative indexable inserts.
- No interference to chip flow.
- Fast insert changes.

*P style available in metric sizes only.*



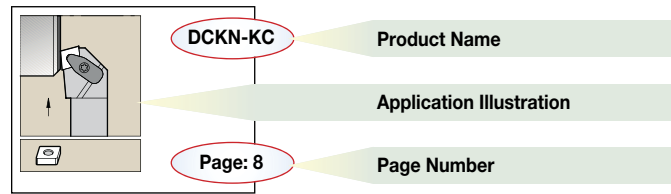
### S-Style Clamping

- Screw clamping system for positive indexable inserts.
- Compact design for high reliability and cost efficiency.
- Carbide shim for additional tool protection.

### C-Style Clamping

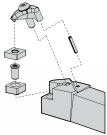
- Height-adjustable clamp permits use of additional chipbreakers.
- Universal clamping system for positive and negative flat top inserts.
- Robust engineering makes it easy to handle.
- Carbide shim for extra tool protection.

Each unique Clamping System offers product options to fill your specific toolholder needs. Find the illustration that fits your application and navigate to the corresponding page to get the correct solution.



### D-Style Clamping

#### D

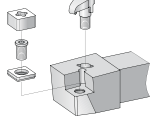


One-piece clamp assembly holder for use with negative style inserts. An extremely rigid clamping system. The tool is protected by a carbide shim.

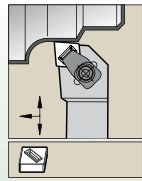
	<b>DCKN</b> 15° Page: 8		<b>DCLN</b> 5° Page: 9		<b>DCRN</b> 15° Page: 10		<b>DDJN</b> -3° Page: 11
	<b>DDPN</b> 27.5° Page: 12		<b>DDQN</b> 17.5° Page: 12		<b>DRGN</b> Page: 13		<b>DSDN</b> 45° Page: 13
	<b>DSKN</b> 15° Page: 14		<b>DSRN</b> 15° Page: 14		<b>DSSN</b> 45° Page: 15		<b>DTFN</b> 0° Page: 15
	<b>DTGN</b> 0° Page: 16		<b>DTJN</b> -3° Page: 16		<b>DVJN</b> 3° Page: 17		<b>DVVN</b> 17.5° Page: 18
	<b>DWLN</b> -5° Page: 18						

**C-Style Clamping**

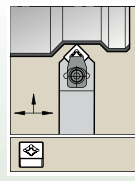
**C**



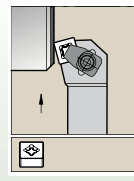
Top clamping system for negative and positive indexable inserts to DIN 4968. This universal clamping system is robust and easy to handle. Some height-adjustable clamps enable the use of additional chipbreakers. A carbide shim provides additional tool protection. Toolholders with cutting edge heights upwards of .625" and insert iCs greater than .250".



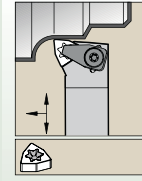
**CCLN-MX**  
-5°  
Page: 19



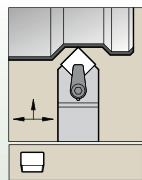
**CSDN-MX**  
45°  
Page: 19



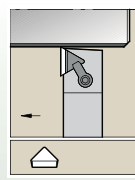
**CSKN-MX**  
15°  
Page: 20



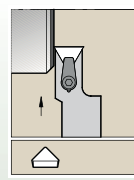
**CWLN-MX**  
-5°  
Page: 20



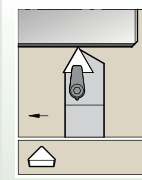
**CSDP**  
45°  
Page: 21



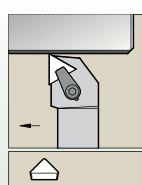
**CTAP**  
0°  
Page: 21



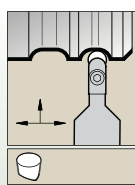
**CTCP**  
0°  
Page: 22



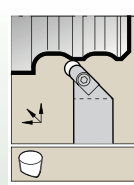
**CTEP**  
30°  
Page: 22



**CTGP**  
0°  
Page: 23



**CRDP\***  
0°  
Page: 23

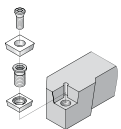


**CRGP\***  
45°  
Page: 24

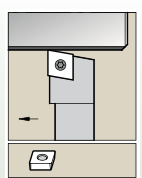
\*Exact Clamping System not shown.

**S-Style Clamping**

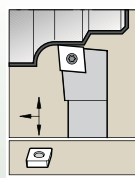
**S**



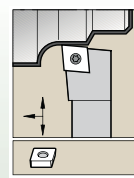
Screw clamping system for positive indexable inserts with countersunk hole to DIN 4967. Compact design using a minimum of spare parts for high reliability and cost efficiency. A carbide shim provides additional tool protection. Toolholders with cutting edge heights upwards of .625" and insert iCs from .375" are secured by means of a threaded bushing.



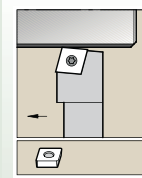
**SCGP**  
0°  
Page: 25



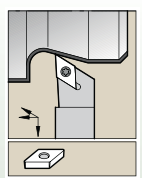
**SCLC**  
-5°  
Page: 25



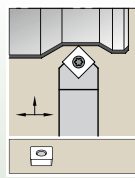
**SCLP**  
-5°  
Page: 26



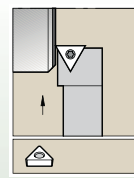
**SCRIP**  
15°  
Page: 26



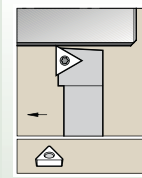
**SDJC**  
-3°  
Page: 27



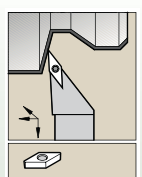
**SSDC**  
45°  
Page: 27



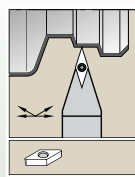
**STFP**  
0°  
Page: 28



**STGP**  
0°  
Page: 28



**SVJB**  
-3°  
Page: 29



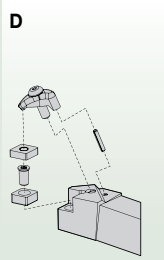
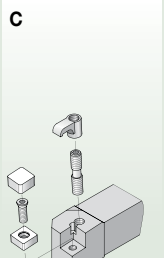
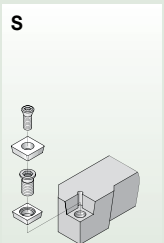






































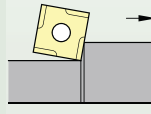
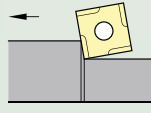
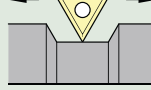
**SVVB**  
17.5°  
Page: 29

## 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.



DCLNR164DKC3

D	C	L	N	R	
Insert Holding Method	Insert Shape	Tool Style or Lead Angle	Insert Clearance Angle	Hand of Tool	Additional Information
<p><b>D</b></p>  <p><b>C</b></p>  <p><b>S</b></p> 	<p><b>A</b> </p> <p><b>B</b> </p> <p><b>C</b> </p> <p><b>D</b> </p> <p><b>E</b> </p> <p><b>H</b> </p> <p><b>K</b> </p> <p><b>L</b> </p> <p><b>M</b> </p> <p><b>O</b> </p> <p><b>P</b> </p> <p><b>R</b> </p> <p><b>S</b> </p> <p><b>T</b> </p> <p><b>V</b> </p> <p><b>W</b> </p>	<p><b>A</b>  <b>L</b> </p> <p><b>B</b>  <b>P</b> </p> <p><b>C</b>  <b>Q</b> </p> <p><b>D</b>  <b>R</b> </p> <p><b>E</b>  <b>S</b> </p> <p><b>F</b>  <b>U</b> </p> <p><b>G</b>  <b>V</b> </p> <p><b>Y</b> </p>	<p><b>N</b> </p> <p><b>B</b> </p> <p><b>C</b> </p> <p><b>P</b> </p> <p><b>D</b> </p> <p><b>E</b> </p> <p><b>F</b> </p>	<p><b>R</b> =</p> <p>Right hand</p> <p><b>L</b> =</p> <p>Left hand</p> <p><b>N</b> =</p> <p>Neutral</p> <p><b>R</b></p>  <p><b>L</b></p>  <p><b>N</b></p> 	<p><b>C</b> =</p> <p>Deep pocket for ceramic insert</p> <p><b>S</b> =</p> <p>Single pocket locating wall</p> <p><b>F</b> =</p> <p>Straight shank, no offset</p>

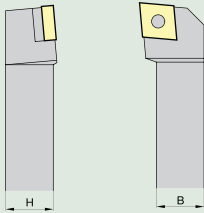
By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



DCLNR164DKC3

**1**

**Shank Dimensions**



The 7th and 8th position shall be a significant two-digit number that indicates the holder cross section. For shanks 5/8" square and over, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width "B" and the second digit the number of quarters of height "H", except for a toolholder 1-1/4" x 1-1/2" which is given the number 91.

**6**

**4**

**Insert Size**

**Insert iC**  
Number of 1/8ths if "D"

**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
- F** = Qualified back and end, 8" long
- G\*** = Qualified back and end, 5.5" long
- H\*** = Qualified back and end, 5.625" long
- I\*** = Qualified back and end, 3" long
- J\*** = Qualified back and end, 5.3" long
- K\*** = Qualified back and end, 14" long
- L\*** = Qualified back and end, 6.8" long
- M** = Qualified front and end, 4" long
- N** = Qualified front and end, 4.5" long
- P** = Qualified front and end, 5" long
- R** = Qualified front and end, 6" long
- S** = Qualified front and end, 7" long
- T** = Qualified front and end, 8" long
- U\*** = Qualified front and end, 5.5" long
- V\*** = Qualified back and end, 3.5" long
- W\*** = Qualified front and end, 3.5" long
- Y\*** = Qualified back and end, 3.75" long
- Z\*** = Qualified back and end, 3.250" long

\* WIDIA™ standard only.

**KC**

**Additional Information**

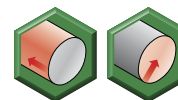
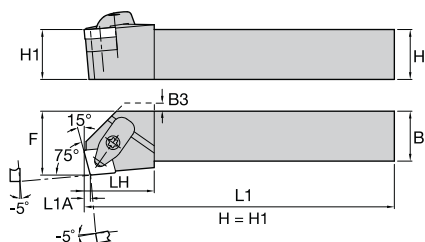
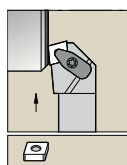
- R** = Radial clearance for 4" minimum bore
- S** = 3.00 minimum bore
- KC** = D-Style

**3**

**Insert Thickness (optional)**

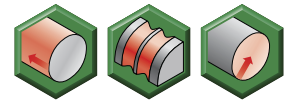
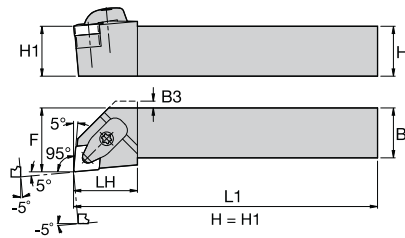
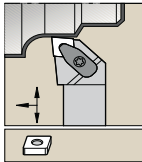
- 3** = .188"
- 4** = .250"





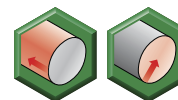
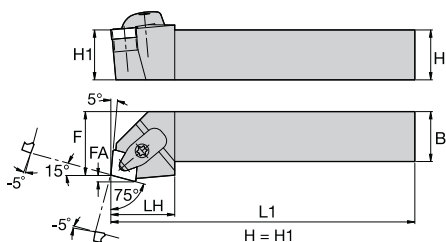
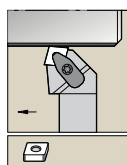
■ DCKN 15°

order number	catalog number	H	B	F	L1	LH	L1A	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>															
5696521	DCKNR124BKC3	.75	.75	1.000	4.50	1.25	.122	.22	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696522	DCKNR164DKC3	1.00	1.00	1.250	6.00	1.25	.122	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696523	DCKNR204DKC3	1.25	1.25	1.500	6.00	1.25	.122	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696524	DCKNR205DKC4	1.25	1.25	1.500	6.00	1.25	.150	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696525	DCKNR206DKC4	1.25	1.25	1.500	6.00	1.50	.183	—	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M
<b>left hand</b>															
5696308	DCKNL164DKC3	1.00	1.00	1.250	6.00	1.25	.122	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696309	DCKNL204DKC3	1.25	1.25	1.500	6.00	1.25	.122	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696520	DCKNL205DKC4	1.25	1.25	1.500	6.00	1.25	.150	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M



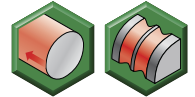
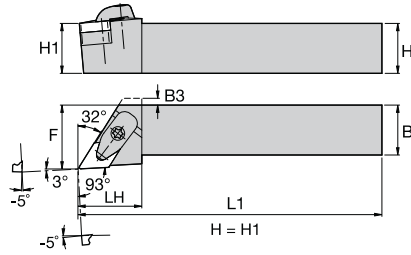
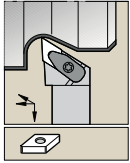
## ■ DCLN -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin	optional lock pin
<b>right hand</b>															
5564318	DCLNR123BKC3	.75	.75	1.000	4.50	1.12	.06	CN..322	ICSN332	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM34L9IP
5564319	DCLNR124BKC3	.75	.75	1.000	4.50	1.25	.15	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM4615IP
5564320	DCLNR163DKC3	1.00	1.00	1.250	6.00	1.12	—	CN..332	ICSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM34L9IP
5564321	DCLNR164DKC3	1.00	1.00	1.250	6.00	1.25	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
5696526	DCLNR165CKC4	1.00	1.00	1.250	5.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564322	DCLNR165DKC4	1.00	1.00	1.250	6.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564323	DCLNR166DKC4	1.00	1.00	1.250	6.00	1.38	—	CN..643	ICSN633	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM6825IP
5564324	DCLNR204DKC3	1.25	1.25	1.500	6.00	1.25	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
5564325	DCLNR205DKC4	1.25	1.25	1.500	6.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564326	DCLNR206DKC4	1.25	1.25	1.500	6.00	1.63	—	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM68L25IP
5564327	DCLNR244DKC3	1.50	1.50	2.000	6.00	1.25	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
5564328	DCLNR245DKC4	1.50	1.50	2.000	6.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564329	DCLNR246DKC4	1.50	1.50	2.000	6.00	1.63	—	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM68L25IP
5564330	DCLNR246EKC4	1.50	1.50	2.000	7.00	1.63	—	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM68L25IP
<b>left hand</b>															
5564295	DCLNL123BKC3	.75	.75	1.000	4.50	1.12	.06	CN..322	ICSN332	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM34L9IP
5564296	DCLNL124BKC3	.75	.75	1.000	4.50	1.25	.15	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM4615IP
5564297	DCLNL163DKC3	1.00	1.00	1.250	6.00	1.12	—	CN..322	ICSN332	KMSP39IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM34L9IP
5564298	DCLNL164DKC3	1.00	1.00	1.250	6.00	1.25	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
5564299	DCLNL165DKC4	1.00	1.00	1.250	6.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564310	DCLNL166DKC4	1.00	1.00	1.250	6.00	1.63	—	CN..643	ICSN633	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM6825IP
5564311	DCLNL204DKC3	1.25	1.25	1.500	6.00	1.25	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
5564312	DCLNL205DKC4	1.25	1.25	1.500	6.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564313	DCLNL206DKC4	1.25	1.25	1.500	6.00	1.63	—	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM68L25IP
5564315	DCLNL244DKC3	1.50	1.50	2.000	6.00	1.25	—	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	KLM46L15IP
5564316	DCLNL245DKC4	1.50	1.50	2.000	6.00	1.38	—	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M	KLM58L15IP
5564317	DCLNL246DKC4	1.50	1.50	2.000	6.00	1.63	—	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	KLM68L25IP



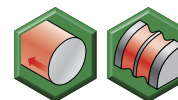
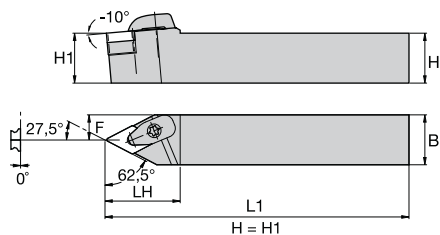
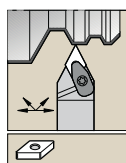
■ DCRN 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>														
5696531	DCRNR124BKC3	.75	.75	.878	4.50	1.25	.12	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696532	DCRNR164DKC3	1.00	1.00	1.128	6.00	1.25	.13	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696533	DCRNR204DKC3	1.25	1.25	1.378	6.00	1.25	.12	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696535	DCRNR245DKC4	1.50	1.50	1.851	6.00	1.38	.15	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696534	DCRNR206DKC4	1.25	1.25	1.501	6.00	1.38	.18	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M
<b>left hand</b>														
5696527	DCRNL164DKC3	1.00	1.00	1.128	6.00	1.25	.12	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696528	DCRNL204DKC3	1.25	1.25	1.378	6.00	1.25	.12	CN..432	ICSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696530	DCRNL245DKC4	1.50	1.50	1.851	6.00	1.38	.15	CN..543	ICSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696529	DCRNL206DKC4	1.25	1.25	1.501	6.00	1.38	.18	CN..643	ICSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M



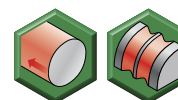
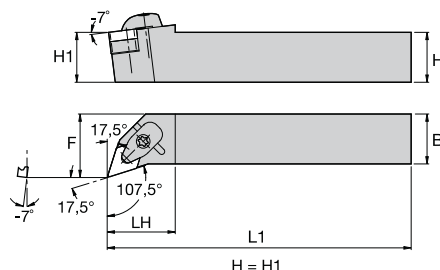
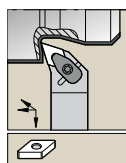
## ■ DDJN -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>														
5696544	DDJNR123BKC3	.75	.75	1.000	4.50	1.25	.06	DN..332	IDSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696545	DDJNR163DKC3	1.00	1.00	1.250	6.00	1.25	—	DN..332	IDSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696548	DDJNR203DKC3	1.25	1.25	1.500	6.00	1.25	—	DN..332	IDSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696546	DDJNR164DKC3	1.00	1.00	1.250	6.00	1.25	—	DN..432	IDSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696549	DDJNR204DKC3	1.25	1.25	1.500	6.00	1.25	—	DN..432	IDSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696547	DDJNR165DKC4	1.00	1.00	1.250	6.00	1.38	.15	DN..543	IDSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696550	DDJNR205DKC4	1.25	1.25	1.500	6.00	1.38	—	DN..543	IDSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696551	DDJNR245DKC4	1.50	1.50	2.000	6.00	1.38	—	DN..543	IDSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
<b>left hand</b>														
5696536	DDJNL123BKC3	.75	.75	1.000	4.50	1.25	.06	DN..332	IDSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696537	DDJNL163DKC3	1.00	1.00	1.250	6.00	1.25	—	DN..332	IDSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696540	DDJNL203DKC3	1.25	1.25	1.500	6.00	1.25	—	DN..332	IDSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696538	DDJNL164DKC3	1.00	1.00	1.250	6.00	1.25	—	DN..432	IDSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696541	DDJNL204DKC3	1.25	1.25	1.500	6.00	1.25	—	DN..332	IDSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5696539	DDJNL165DKC4	1.00	1.00	1.250	6.00	1.38	.15	DN..543	IDSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696542	DDJNL205DKC4	1.25	1.25	1.500	6.00	1.38	—	DN..543	IDSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5696543	DDJNL245DKC4	1.50	1.50	2.000	6.00	1.38	—	DN..543	IDSN543	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M



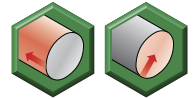
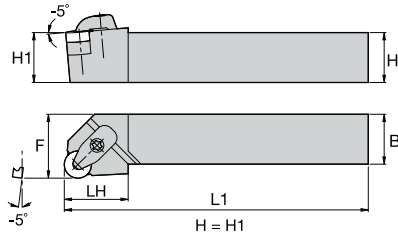
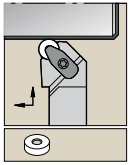
■ DDPN 27.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
5696552	DDPNN164DKC3	1.00	1.00	.497	6.00	1.62	DN..432	IDSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M



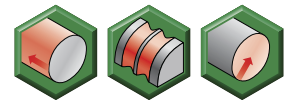
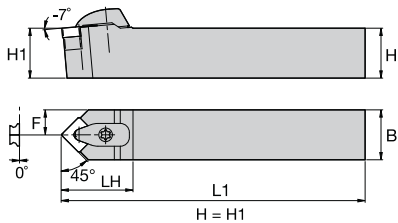
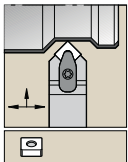
■ DDQN -17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>													
5564339	DDQNR164CKC3	1.00	1.00	1.250	5.00	1.38	DN..432	IDSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5564340	DDQNR204DKC3	1.25	1.25	1.500	6.00	1.38	DN..432	IDSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
<b>left hand</b>													
5564337	DDQNL164DKC3	1.00	1.00	1.250	6.00	1.38	DN..432	IDSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5564338	DDQNL204DKC3	1.25	1.25	1.500	6.00	1.38	DN..432	IDSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M



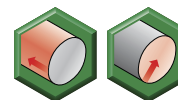
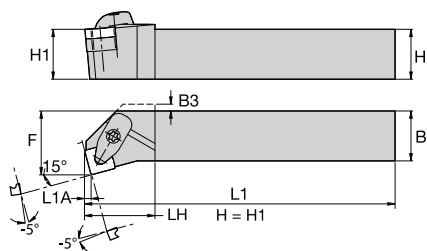
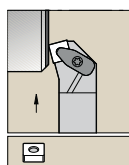
## DRGN

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>													
5697735	DRGNR124BKC3	.75	.75	1.000	4.50	1.25	RN..43	IRSN43	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697736	DRGNR164DKC3	1.00	1.00	1.250	6.00	1.25	RN..43	IRSN44	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697738	DRGNR204DKC3	1.25	1.25	1.500	6.00	1.25	RN..43	IRSN44	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697737	DRGNR165DKC4	1.00	1.00	1.250	6.00	1.25	RN..54	IRSN54	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5697739	DRGNR206DKC4	1.25	1.25	1.500	6.00	1.38	RN..64	IRSN64	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M
<b>left hand</b>													
5697730	DRGNL124BKC3	.75	.75	1.000	4.50	1.25	RN..43	IRSN43	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697731	DRGNL164DKC3	1.00	1.00	1.250	6.00	1.25	RN..43	IRSN44	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697733	DRGNL204DKC3	1.25	1.25	1.500	6.00	1.25	RN..43	IRSN44	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697732	DRGNL165DKC4	1.00	1.00	1.250	6.00	1.25	RN..54	IRSN54	KMSP515IP	15 IP	CM209R ASSY	15 IP	SSP025016M
5697734	DRGNL206DKC4	1.25	1.25	1.500	6.00	1.38	RN..64	IRSN64	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M



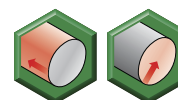
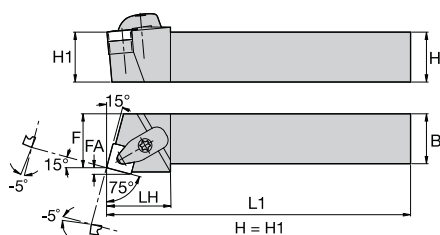
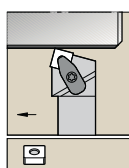
## DSDN 45°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
5697740	DSDNN124KC3	.75	.75	.375	4.50	1.44	SN..432	ISSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697741	DSDNN164KC3	1.00	1.00	.500	6.00	1.44	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697742	DSDNN204KC3	1.25	1.25	.625	6.00	1.44	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697743	DSDNN206KC4	1.25	1.25	.625	6.00	1.75	SN..643	ISSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M



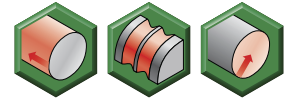
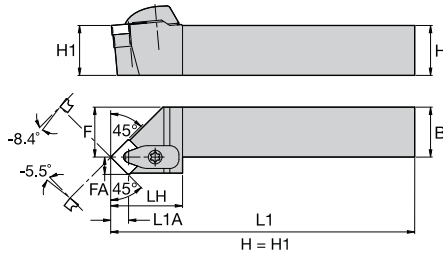
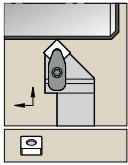
■ DSKN 15°

order number	catalog number	H	B	F	L1	LH	L1A	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>															
5697745	DSKNR164CKC3	1.00	1.00	1.250	5.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697746	DSKNR164DKC3	1.00	1.00	1.250	6.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
<b>left hand</b>															
5697744	DSKNL164DKC3	1.00	1.00	1.250	6.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M



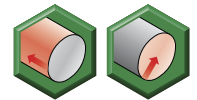
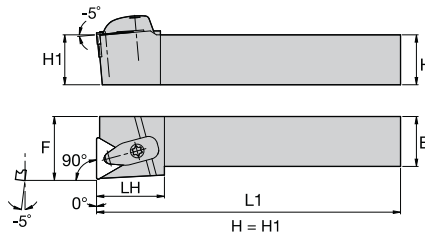
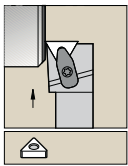
■ DSRN 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin	
<b>right hand</b>															
5564343	DSRRN164DKC3	1.00	1.00	1.130	6.00	1.25	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	
<b>left hand</b>															
5564341	DSRNL164DKC3	1.00	1.00	1.130	6.00	1.25	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	
5564342	DSRNL206DKC4	1.25	1.25	1.321	6.00	1.50	.18	SN..643	ISSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M	



## ■ DSSN 45°

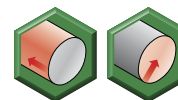
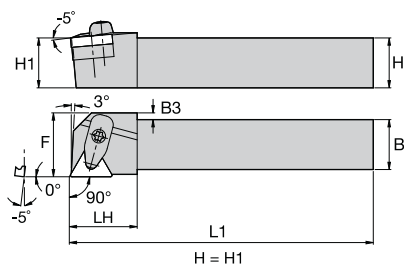
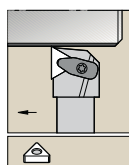
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin	
<b>right hand</b>															
5697754	DSSNR164DKC3	1.00	1.00	.912	6.00	1.50	.34	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	
<b>left hand</b>															
5697753	DSSNL164DKC3	1.00	1.00	.912	6.00	1.50	.34	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M	



## ■ DTFN 0°

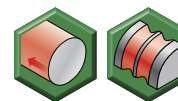
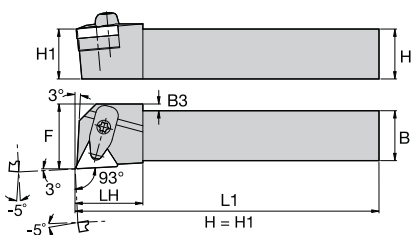
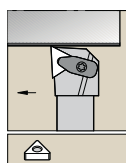
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>													
5697758	DTFNR123BKC3	.75	.75	1.000	4.50	1.25	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697759	DTFNR163DKC3	1.00	1.00	1.250	6.00	1.25	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697760	DTFNR164DKC3	1.00	1.00	1.250	6.00	1.38	TN..432	ITSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
<b>left hand</b>													
5697755	DTFNL123BKC3	.75	.75	1.000	4.50	1.25	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697756	DTFNL163DKC3	1.00	1.00	1.250	6.00	1.25	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697757	DTFNL164DKC3	1.00	1.00	1.250	6.00	1.38	TN..432	ITSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M





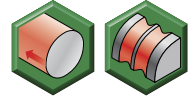
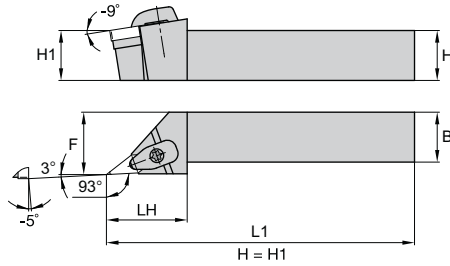
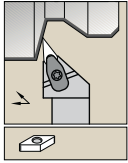
■ DTGN 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>														
5697764	DTGNR123BKC3	.75	.75	1.000	4.50	1.12	.25	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697765	DTGNR163DKC3	1.00	1.00	1.250	6.00	1.12	—	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697766	DTGNR164DKC3	1.00	1.00	1.250	6.00	1.25	.09	TN..432	ITSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
<b>left hand</b>														
5697761	DTGNL123BKC3	.75	.75	1.000	4.50	1.12	.25	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697762	DTGNL163DKC3	1.00	1.00	1.250	6.00	1.12	—	TN..332	ITSN323	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697763	DTGNL164DKC3	1.00	1.00	1.250	6.00	1.25	.09	TN..432	ITSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M



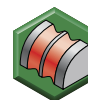
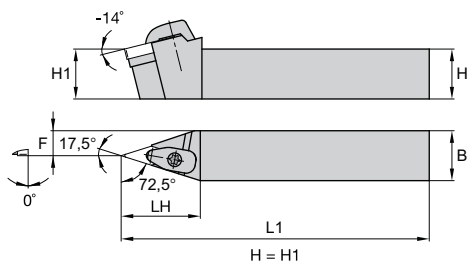
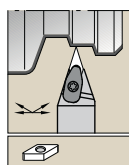
■ DTJN -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>														
5697767	DTJNR164DKC3	1.00	1.00	1.250	6.00	1.25	.12	TN..432	ITSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M



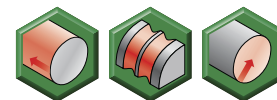
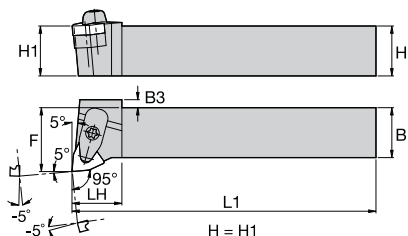
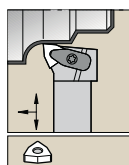
## ■ DVJN 3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>													
5697781	DVJNR123CKC3	.75	.75	1.000	5.00	1.82	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
5564346	DVJNR163DKC3	1.00	1.00	1.250	6.00	1.82	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
5697782	DVJNR853DKC3	1.25	1.00	1.250	6.00	1.82	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
5564347	DVJNR164DKC3	1.00	1.00	1.250	6.00	2.15	VN..432	IVSN432	KMSP415IP	15 IP	CM235R ASSY	15 IP	SSP025016M
5697783	DVJNR854DKC3	1.25	1.00	1.250	6.00	2.15	VN..432	IVSN432	KMSP415IP	15 IP	CM235R ASSY	15 IP	SSP025016M
<b>left hand</b>													
5697780	DVJNL854DKC3	1.25	1.00	1.250	6.00	2.15	VN..432	—	—	15 IP	—	15 IP	—
5697768	DVJNL123CKC3	.75	.75	1.000	5.00	1.82	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
5564344	DVJNL163DKC3	1.00	1.00	1.250	6.00	1.82	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
5697769	DVJNL853DKC3	1.25	1.00	1.250	6.00	1.82	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
5564345	DVJNL164DKC3	1.00	1.00	1.250	6.00	2.15	VN..432	IVSN432	KMSP415IP	15 IP	CM235R ASSY	15 IP	SSP025016M



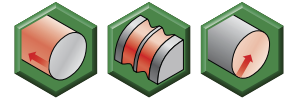
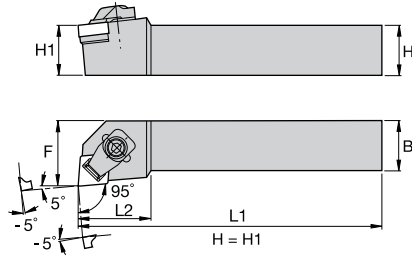
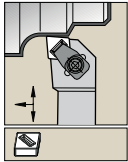
■ DVVN 17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
5564348	DVVNN163DKC3	1.00	1.00	.496	6.00	1.97	VN..332	IWSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M



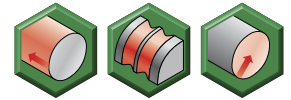
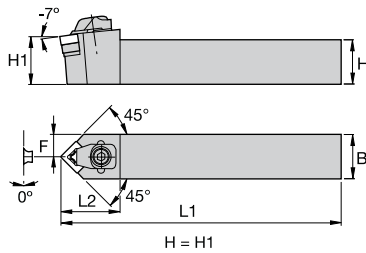
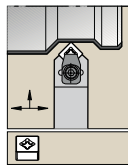
■ DWLN -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
<b>right hand</b>														
5697789	DWLNR123BKC3	.75	.75	1.000	4.50	1.00	.28	WN..332	IWSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697790	DWLNR163DKC3	1.00	1.00	1.250	6.00	1.00	.06	WN..332	IWSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697791	DWLNR164CKC3	1.00	1.00	1.250	5.00	1.00	.15	WN..432	IWSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697792	DWLNR164DKC3	1.00	1.00	1.250	6.00	1.00	.15	WN..432	IWSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697793	DWLNR204DKC3	1.25	1.25	1.500	6.00	—	—	WN..432	IWSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
<b>left hand</b>														
5697784	DWLNL123BKC3	.75	.75	1.000	4.50	1.00	.28	WN..332	IWSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697785	DWLNL163DKC3	1.00	1.00	1.250	6.00	1.00	.06	WN..332	IWSN322	KMSP315IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697786	DWLNL164CKC3	1.00	1.00	1.250	5.00	1.00	.15	WN..432	IWSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697787	DWLNL164DKC3	1.00	1.00	1.250	6.00	1.00	.15	WN..432	IWSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
5697788	DWLNL204DKC3	1.25	1.25	1.500	6.00	1.00	—	WN..432	IWSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M



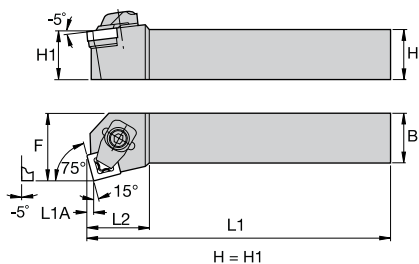
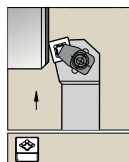
## ■ CCLN-MX -5°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	Torx	clamp assembly	Torx
<b>right hand</b>												
3093607	CCLNR164DMX5	1.00	1.00	1.250	6.00	1.25	CN.X452	552.221	554.260	T20	551.326	T25
3093608	CCLNR165DMX5	1.00	1.00	1.250	6.00	1.38	CN.X553	552.223	554.261	T25	551.342	T25
<b>left hand</b>												
3093605	CCLNL164DMX5	1.00	1.00	1.250	6.00	1.25	CN.X452	552.221	554.260	T20	551.326	T25
3093606	CCLNL244DMX5	1.50	1.50	2.000	6.00	1.25	CN.X452	552.221	554.260	T20	551.326	T25



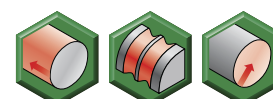
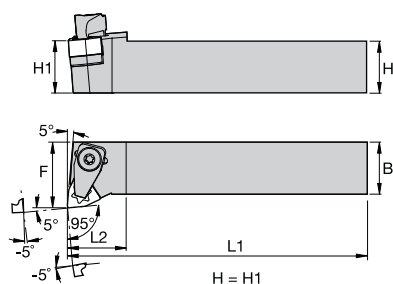
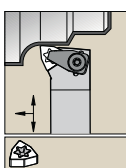
## ■ CSDN-MX 45°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	Torx	clamp assembly	Torx
3093609	CSDNN164DMX5	1.00	1.00	.500	6.00	1.38	SN.X452	552.232	554.260	T20	551.326	T25



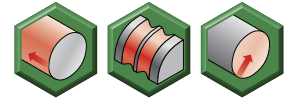
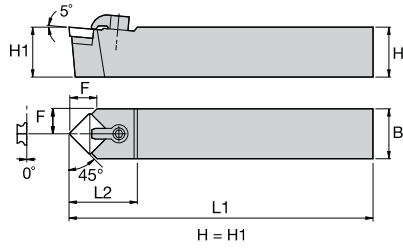
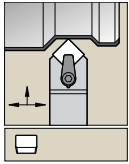
■ CSKN-MX 15°

order number	catalog number	H	B	F	L1	L2	L1A	gage insert	shim	shim screw	Torx	clamp assembly	Torx
<b>right hand</b>													
3093281	CSKNR164DMX5	1.00	1.00	1.250	6.00	1.06	.12	SN.X452	552.232	554.260	T20	551.326	T25
<b>left hand</b>													
3093282	CSKNL164DMX5	1.00	1.00	1.250	6.00	1.06	.12	SN.X452	552.232	554.260	T20	551.326	T25



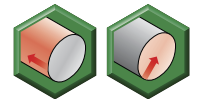
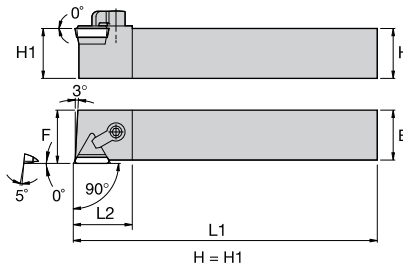
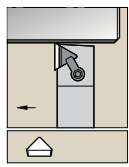
■ CWLN-MX -5°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	Torx	clamp assembly	Torx
<b>right hand</b>												
3093603	CWLN164DMX5	1.00	1.00	1.250	6.00	1.12	WN.X452	552.210	554.260	T20	551.326	T25
<b>left hand</b>												
3093604	CWLN164DMX5	1.00	1.00	1.250	6.00	1.12	WN.X452	552.210	554.260	T20	551.326	T25



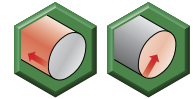
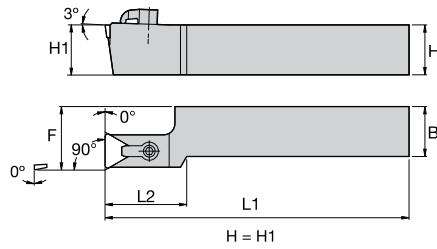
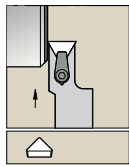
## ■ CSDP 45°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
2951032	CSDPN103	.63	.63	.310	4.50	.94	SP.322	SM120	SL344	—	CK7	STC5	3/32
2951284	CSDPN124	.75	.75	.372	4.50	1.38	SP.422	SM40	S111	1/16	CK10	STC8	5/32
2951285	CSDPN164	1.00	1.00	.497	6.00	1.38	SP.422	SM40	S111	1/16	CK9	STC4	5/32



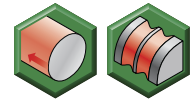
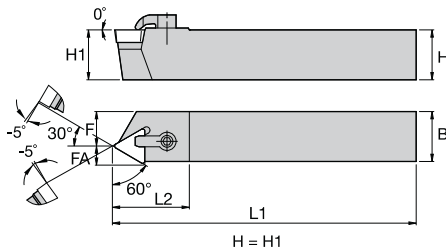
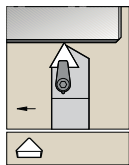
## ■ CTAP 0°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
<b>right hand</b>													
2951286	CTAPR082B	.50	.50	.500	4.50	.75	TP.221	SM119	SL344	—	CK19	STC9	3/32
2951287	CTAPR123B	.75	.75	.750	4.50	1.06	TP.322	SM41	S111	1/16	CK10	STC8	5/32



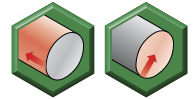
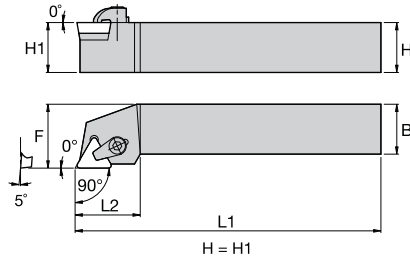
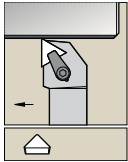
■ CTCP 0°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
<b>left hand</b>													
2951288	CTCPN443	1.00	.50	.542	8.00	1.19	TP.322	SM41	S111	1/16	CK23	STC11	1/8



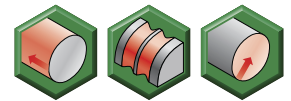
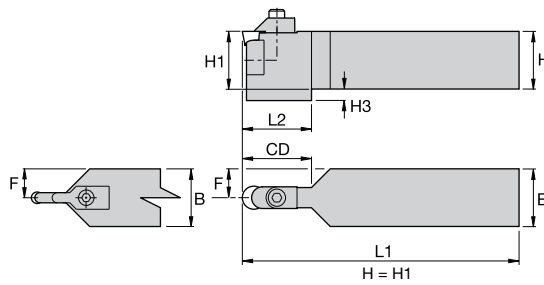
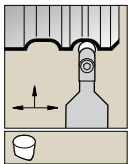
■ CTEP 30°

order number	catalog number	H	B	F	L1	L2	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
<b>right hand</b>														
2951289	CTEPR123B	.75	.75	.460	4.50	1.25	.28	TP.322	SM41	S111	1/16	CK10	STC8	5/32
2951290	CTEPR163D	1.00	1.00	.700	6.00	1.25	.28	TP.322	SM41	S111	1/16	CK9	STC4	5/32



## ■ CTGP 0°

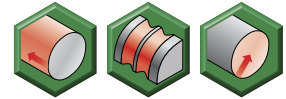
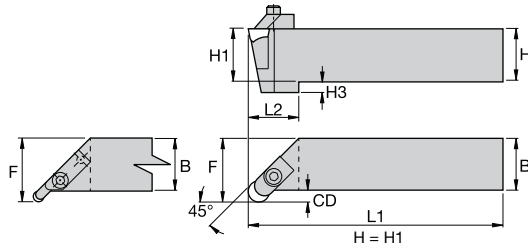
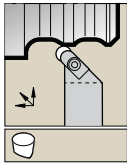
order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
<b>right hand</b>													
2951292	CTGPR123B	.75	.75	1.000	4.50	1.13	TP.322	SM41	S111	1/16	CK10	STC8	5/32
<b>left hand</b>													
2951291	CTGPL123B	.75	.75	1.000	4.50	1.13	TP.322	SM41	S111	1/16	CK10	STC8	5/32



## ■ CRDP 0°

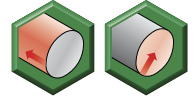
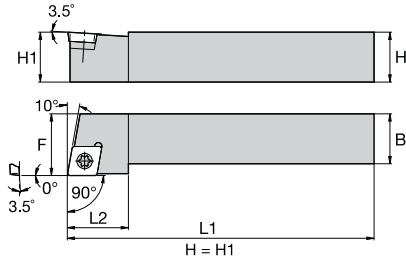
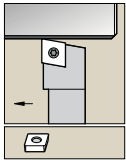
order number	catalog number	H	B	F	L1	L2	CD	H3	gage insert	nest	clamp	clamp screw	hex
3871495	CRDPN162DV	1.00	1.00	.496	6.00	—	.75	—	R..V23	NST1	CM214	MS1321	2.5 mm
3871496	CRDPN163DV	1.00	1.00	.496	6.00	—	1.13	—	R..V35	NST2	CM219	CS412	3.5 mm
3871497	CRDPN203DV	1.25	1.25	.621	6.00	—	1.13	—	R..V35	NST2	CM219	CS412	3.5 mm
3871498	CRDPN164DV	1.00	1.00	.496	6.00	1.50	1.50	.25	R..V45	NST3	CM216	CS412	3.5 mm
3871499	CRDPN204DV	1.25	1.25	.621	6.00	—	1.50	—	R..V45	NST3	CM216	CS412	3.5 mm





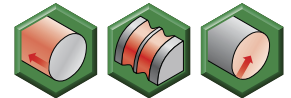
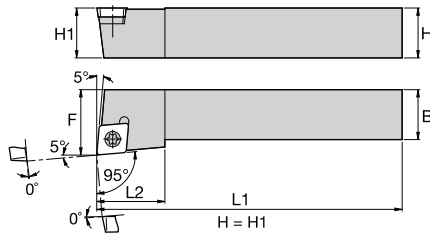
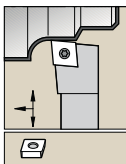
■ CRGP 45°

order number	catalog number	H	B	F	L1	L2	CD	H3	gage insert	nest	clamp	clamp screw	hex
<b>right hand</b>													
3871506	CRGPR164DV	1.00	1.00	1.250	6.00	1.19	.25	.25	R..V45	NST3	CM216	CS412	3.5 mm
3871504	CRGPR203DV	1.25	1.25	1.500	6.00	—	.25	—	R..V35	NST2	CM219	CS412	3.5 mm
3871508	CRGPR204DV	1.25	1.25	1.500	6.00	—	.25	—	R..V45	NST3	CM216	CS412	3.5 mm
<b>left hand</b>													
3871501	CRGPL162DV	1.00	1.00	1.250	6.00	—	.25	—	R..V23	NST1	CM214	MS1321	2.5 mm
3871507	CRGPL164DV	1.00	1.00	1.250	6.00	1.19	.25	.25	R..V45	NST3	CM216	CS412	3.5 mm
3871505	CRGPL203DV	1.25	1.25	1.500	6.00	—	.25	—	R..V35	NST2	CM219	CS412	3.5 mm
3871509	CRGPL204DV	1.25	1.25	1.500	6.00	—	.25	—	R..V45	NST3	CM216	CS412	3.5 mm



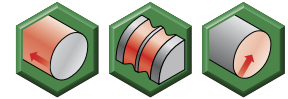
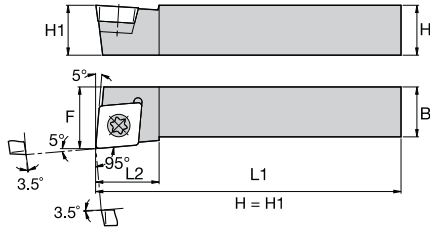
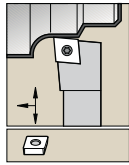
## ■ SCGP 0°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	insert screw	Torx
<b>right hand</b>												
5094166	SCGPR083V	.50	.50	.625	3.50	.62	CP..3252	—	—	—	MS1027	T9
5094167	SCGPR123B	.75	.75	1.000	4.50	.63	CP..3252	SM417	MS1028	3/32	MS1027	T9
<b>left hand</b>												
5094164	SCGPL083V	.50	.50	.625	3.50	.62	CP..3252	—	—	—	MS1027	T9
5094165	SCGPL123B	.75	.75	1.000	4.50	.63	CP..3252	SM417	MS1028	3/32	MS1027	T9



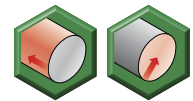
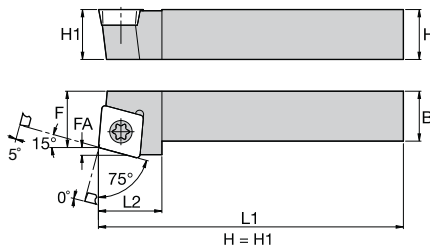
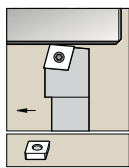
## ■ SCLC -5°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	insert screw	Torx
<b>right hand</b>												
2951352	SCLCR062	.38	.38	.500	2.50	.50	CC..2151	—	—	—	MS1153	T7
2951363	SCLCR083	.50	.50	.625	3.50	.63	CC..3252	—	—	—	MS1155	T15
2951364	SCLCR103	.63	.63	.750	4.00	.62	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15
2951365	SCLCR123	.75	.75	1.000	4.50	.62	CC..3252	SKCP343	SRS3	3.5 mm	MS1156	T15
2951366	SCLCR164D	1.00	1.00	1.250	6.00	.75	CC..432	SKCP453	SRS4	4 mm	MS1158	T15
<b>left hand</b>												
2951350	SCLCL062	.38	.38	.500	2.50	.50	CC..2151	—	—	—	MS1153	T7
2951351	SCLCL083	.50	.50	.625	3.50	.63	CC..3252	—	—	—	MS1155	T15



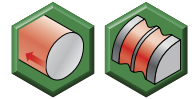
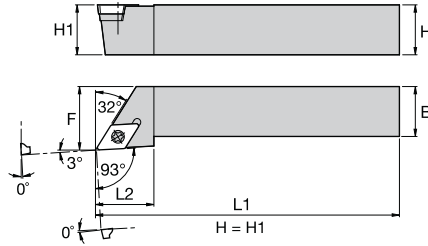
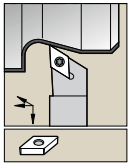
■ SCLP -5°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	insert screw	Torx
<b>right hand</b>												
5094214	SCLPR062	.38	.38	.500	2.50	.44	CP..2151	—	—	—	MS1153	T7
5094215	SCLPR083V	.50	.50	.625	3.50	.62	CP..3252	—	—	—	MS1027	T9
5094219	SCLPR123B	.75	.75	1.000	4.50	.62	CP..3252	SM417	MS1028	3/32	MS1027	T9
<b>left hand</b>												
5094168	SCLPL062	.38	.38	.500	2.50	.44	CP..2151	—	—	—	MS1153	T7
5094210	SCLPL083V	.50	.50	.625	3.50	.62	CP..3252	—	—	—	MS1027	T9
5094213	SCLPL123B	.75	.75	1.000	4.50	.62	CP..3252	SM417	MS1028	3/32	MS1027	T9



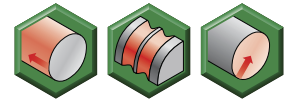
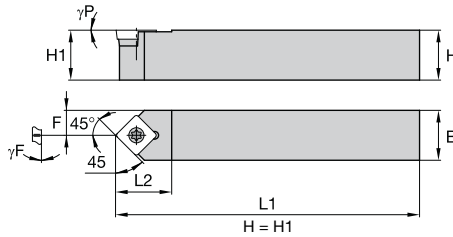
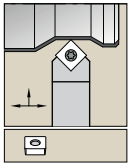
■ SCR 15°

order number	catalog number	H	B	F	L1	L2	FA	gage insert	insert screw	Torx
<b>right hand</b>										
5094252	SCRPR062	.38	.38	.439	2.50	.44	.06	CP..2151	MS1153	T7
5094253	SCRPR083V	.50	.50	.437	3.50	.62	.09	CP..3252	MS1027	T9
<b>left hand</b>										
5094250	SCRPL062	.38	.38	.439	2.50	.44	.06	CP..2151	MS1153	T7
5094251	SCRPL083V	.50	.50	.437	3.50	.62	.09	CP..3252	MS1027	T9



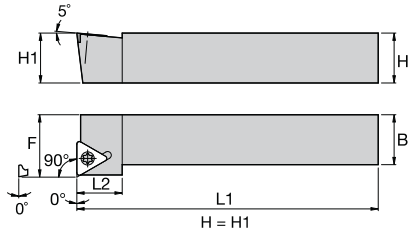
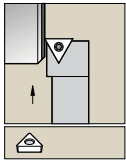
## SDJC -3°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	insert screw	Torx
<b>right hand</b>												
2951369	SDJCR062	.38	.38	.500	2.50	.62	DC..2151	—	—	—	MS1153	T7
2951370	SDJCR123	.75	.75	1.000	4.50	.88	DC..3252	SKDP343	SRS3	3.5 mm	MS1156	T15
2951371	SDJCR163	1.00	1.00	1.250	6.00	.88	DC..3252	SKDP343	SRS3	3.5 mm	MS1156	T15
<b>left hand</b>												
2951367	SDJCL102	.63	.63	.750	4.00	.62	DC..2151	—	—	—	MS1153	T7
2951368	SDJCL163	1.00	1.00	1.250	6.00	.88	DC..3252	SKDP343	SRS3	3.5 mm	MS1156	T15



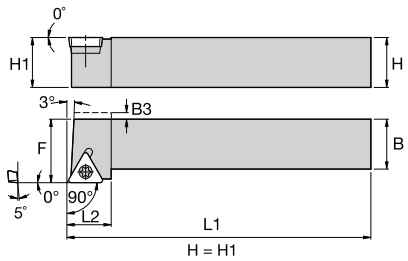
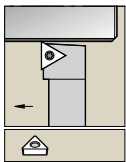
## SSDC 45°

order number	catalog number	H	B	F	L1	L2	$\gamma F^\circ$	$\gamma P^\circ$	gage insert	insert screw	Torx
<b>left hand</b>											
2951372	SSDCN083	.50	.50	.250	3.50	.63	0.0	0.0	SC..3252	MS1155	T15



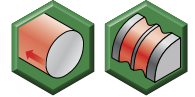
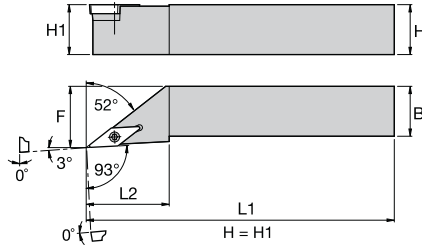
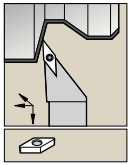
■ STFP 0°

order number	catalog number	H	B	F	L1	gage insert	insert screw	Torx
<b>right hand</b>								
5094255	STFPR062	.38	.38	.500	2.50	TP..2151	MS1153	T7
<b>left hand</b>								
5094254	STFPL062	.38	.38	.500	2.50	TP..2151	MS1153	T7



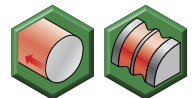
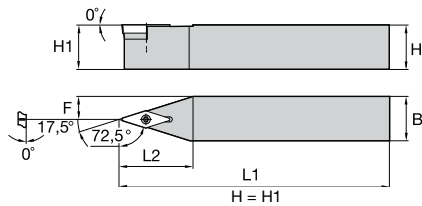
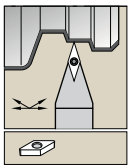
■ STGP 0°

order number	catalog number	H	B	F	L1	L2	gage insert	insert screw	Torx
<b>right hand</b>									
5094258	STGPR062	.38	.38	.500	2.50	.56	TP..2151	MS1153	T7
5094259	STGPR082V	.50	.50	.625	3.50	.56	TP..2151	MS1153	T7
<b>left hand</b>									
5094256	STGPL062	.38	.38	.500	2.50	.56	TP..2151	MS1153	T7
5094257	STGPL082V	.50	.50	.625	3.50	.56	TP..2151	MS1153	T7



■ SVJB -3°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	insert screw	Torx
<b>right hand</b>												
2951375	SVJBR123	.75	.75	1.000	4.50	1.38	VB..332	SKVN343	SRS3	3.5 mm	MS1156	T15
2951376	SVJBR163	1.00	1.00	1.250	6.00	1.38	VB..332	SKVN343	SRS3	3.5 mm	MS1156	T15
<b>left hand</b>												
2951373	SVJBL123	.75	.75	1.000	4.50	1.38	VB..332	SKVN343	SRS3	3.5 mm	MS1156	T15
2951374	SVJBL163	1.00	1.00	1.250	6.00	1.38	VB..332	SKVN343	SRS3	3.5 mm	MS1156	T15



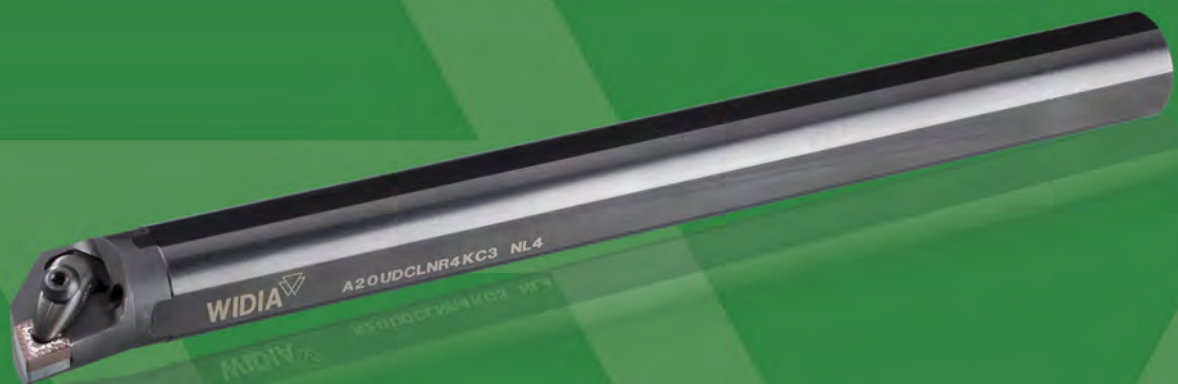
■ SVB 17.5°

order number	catalog number	H	B	F	L1	L2	gage insert	shim	shim screw	hex	insert screw	Torx
<b>left hand</b>												
2951377	SVBN163	1.00	1.00	.500	6.00	1.31	VB..332	SKVN343	SRS3	3.5 mm	MS1156	T15

## Tools for Internal Boring

Today's modern boring operations require the most reliable, high-performance tools. WIDIA™ offers an extensive range of toolholders for internal boring to meet even the most precise production demands across a broad spectrum of workpiece shapes and sizes.

WIDIA boring bars, available with both a conventional steel shank or a vibration-resistant carbide shank and coolant hole, guarantee consistent results and enhanced production reliability.



### D-Style Clamping

- Used for negative style inserts.
- Clamp assembly contains clamp, screw, and retaining ring.
- Quick insert indexing.
- Ensures insert repeatability and seating.
- Reduced chatter and extended tool life.

### P-Style Clamping

- Lever-type clamping system for negative indexable inserts.
- No interference to chip flow.
- Fast insert changes.

*P style available in metric sizes only.*



### S-Style Clamping

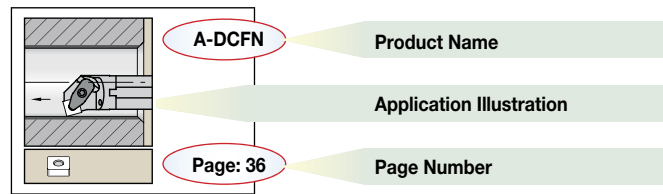
- Screw clamping system for positive indexable inserts.
- Compact design for high reliability and cost efficiency.
- Carbide shim for additional tool protection.

### C-Style Clamping

- Height-adjustable clamp permits use of additional chipbreakers.
- Universal clamping system for positive and negative flat top inserts.
- Robust engineering makes it easy to handle.
- Carbide shim for extra tool protection.

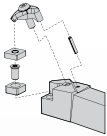


Each unique Clamping System offers product options to fill your specific toolholder needs. Find the illustration that fits your application and navigate to the corresponding page to get the correct solution.

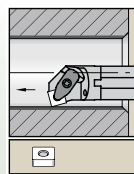


## D-Style Clamping

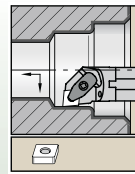
### D



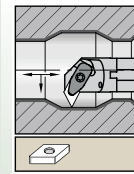
One-piece clamp assembly holder for use with negative style inserts. An extremely rigid clamping system. The tool is protected by a carbide shim.



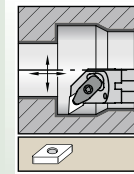
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Page:  
**36**



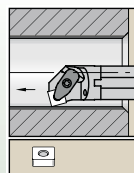
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Page:  
**37**



**A-DDPN**  
27.5°  
Page:  
**38**



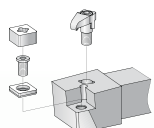
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**38**



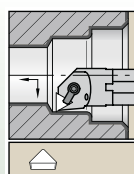
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Page:  
**39**

## C-Style Clamping

### C



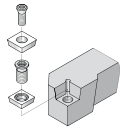
Top clamping system for negative and positive indexable inserts to DIN 4968. This universal clamping system is robust and easy to handle. Some height-adjustable clamps enable the use of additional chipbreakers. A carbide shim provides additional tool protection. Toolholders with cutting edge heights upwards of .625" and insert ICs greater than .250".



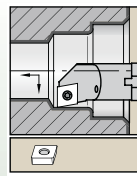
**A-CTFP**  
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Page:  
**40**

**S-Style Clamping**

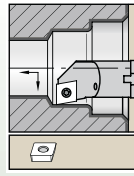
**S**



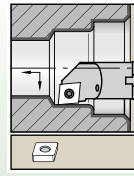
Screw clamping system for positive indexable inserts with countersunk hole to DIN 4967. Compact design using a minimum of spare parts for high reliability and cost efficiency. A carbide shim provides additional tool protection. Toolholders with cutting edge heights upwards of .625" and insert iCs from .375" are secured by means of a threaded bushing.



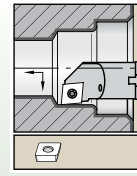
**A-SCFC**  
0°  
Page: 41



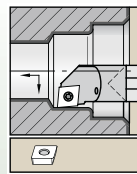
**A-SCFP**  
0°  
Page: 42



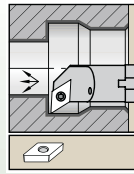
**A-SCLC**  
-5°  
Page: 43



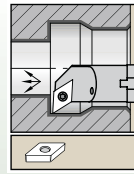
**A-SCLP**  
-5°  
Page: 44



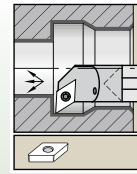
**E-SCLP**  
-5°  
Page: 45



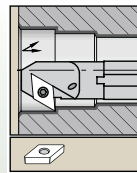
**A-SDUC**  
-3°  
Page: 46



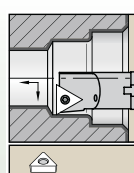
**A-SDUP**  
-3°  
Page: 47



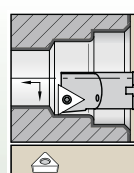
**E-SDUP**  
-3°  
Page: 48



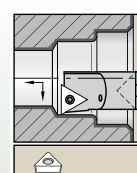
**A-SDXP**  
-5°  
Page: 49



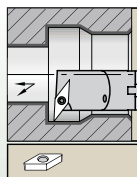
**A-STFC**  
0°  
Page: 50



**A-STFP**  
0°  
Page: 50



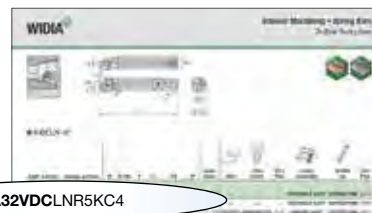
**E-STFP**  
0°  
Page: 51





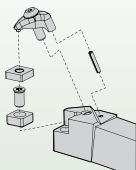
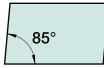

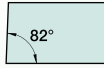

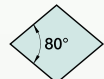

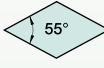

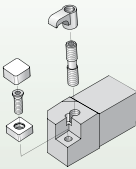
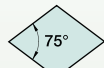



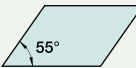

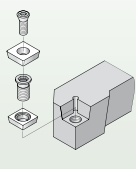
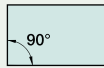

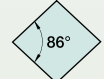







**A-SVUB**  
-3°  
Page: 52

## How Do Catalog Numbers Work?

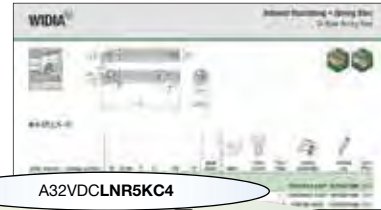
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



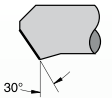
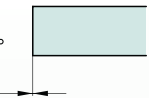
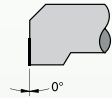
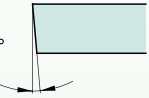
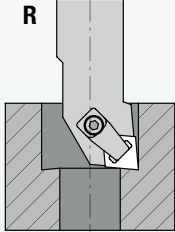
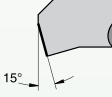
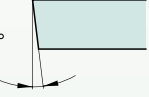
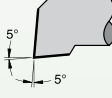
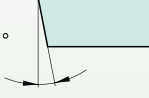
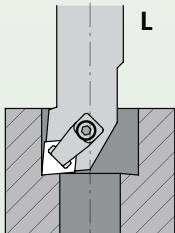
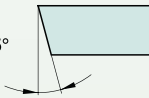
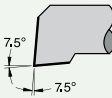

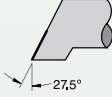
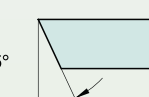
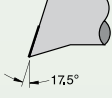
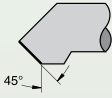
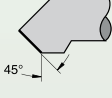
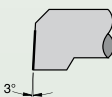
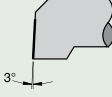
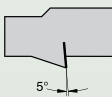
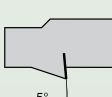
A32VDCLNR5KC4

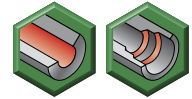
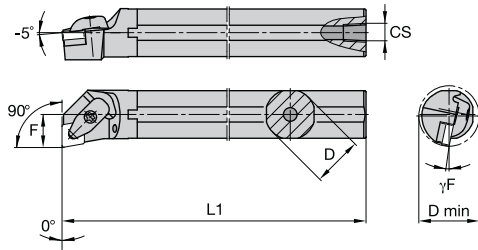
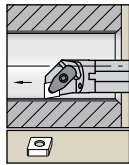
A	32	V	D	C
Bar Type	Bar Diameter	Bar Length**	Insert Holding Method	Insert Shape
<b>A</b>  Steel bar with coolant	 Inch: A two-digit number indicates the bar diameter in 1/16" increments	3 = F 3.5 = G 4 = H 4.5 = J 5 = K 5.5 = L 6 = M 6.5 = N 7 = Q 8 = R 10 = S 12 = T 14 = U 16 = V 18 = W 20 = Y	<b>D</b> 	<b>A</b> 
<b>S</b>  Steel bar without coolant				<b>B</b> 
<b>C</b>  Carbide bar				<b>C</b> 
<b>D</b>  DeVibrator bar with coolant				<b>D</b> 
<b>D</b>  Tuneable bar with coolant			<b>C</b> 	<b>E</b> 
<b>E</b>  Carbide bar with coolant		**Used only when more than one length is available or a special length is required.		<b>H</b> 
<b>B</b>  DeVibrator				<b>K</b> 
<b>H</b>  Interchangeable head			<b>S</b> 	<b>L</b> 
<b>L</b>  Heavy metal bar with coolant				<b>M</b> 
				<b>O</b> 
				<b>P</b> 
				<b>R</b> 
				<b>S</b> 
				<b>T</b> 
				<b>V</b> 
				<b>W</b> 

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



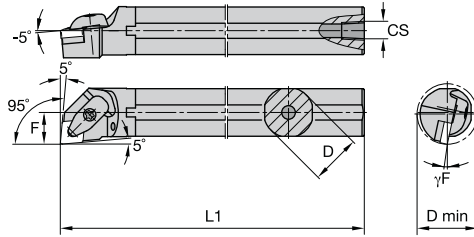
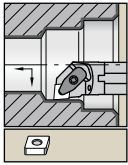
A32VDCLNR5KC4

L	N	R	5	KC4
Bar Style or Lead Angle	Insert Clearance Angle	Hand of Tool	Insert Size	Additional Information
<p><b>E</b></p>  <p>30°</p>	<p><b>N</b> 0°</p> 	<p><b>R =</b> Right-hand boring bar</p>	<p><b>Insert iC</b> Number of 1/8ths of "D"</p>	<p>M... = TNT/MTS clamping systems for ceramic and PCBN inserts</p>
<p><b>F</b></p>  <p>0°</p>	<p><b>B</b> 5°</p> 	<p><b>R</b></p> 		<p>D = Dual pocket</p>
<p><b>K</b></p>  <p>15°</p>	<p><b>C</b> 7°</p> 	<p><b>L =</b> Left-hand boring bar</p>		<p>AP5 = Axil positive</p>
<p><b>L</b></p>  <p>5°</p>	<p><b>P</b> 11°</p> 	<p><b>L</b></p> 		<p>KC = D-Style</p>
<p>(E-style inserts)</p>	<p><b>D</b> 15°</p> 			<p>+ = Insert thickness</p>
<p><b>L</b></p>  <p>7,5°</p>	<p><b>E</b> 20°</p> 			
<p><b>P</b></p>  <p>27,5°</p>	<p><b>F</b> 25°</p> 			
<p><b>Q</b></p>  <p>17,5°</p>	<p><b>S</b></p>  <p>45°</p>			
<p><b>S</b></p>  <p>45°</p>	<p><b>U</b></p>  <p>3°</p>			
<p><b>U</b></p>  <p>3°</p>	<p><b>X</b></p>  <p>5°</p>			
<p><b>X</b></p>  <p>5°</p>				



■ **A-DCFN 0°**

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
<b>right hand</b>														
5696051	A16TDCFNR4KC3	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	—	—	15 IP	CM234RLP ASSY	SSP025016M	15 IP
5696052	A20UDCFNR4KC3	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696053	A24UDCFNR4KC3	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
<b>left hand</b>														
5695949	A16TDCFNL4KC3	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	—	—	15 IP	CM234RLP ASSY	SSP025016M	15 IP
5696050	A20UDCFNL4KC3	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP

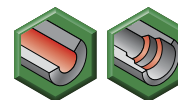
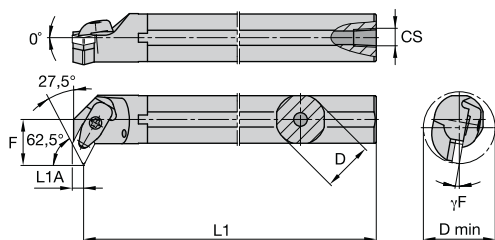
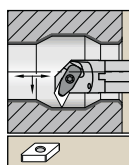


## ■ A-DCLN -5°

order number	catalog number	D	D min	F	L1	CS	$\gamma F^\circ$	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
<b>right hand</b>														
5696296	A16TDCLNR3KC2	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	—	—	—	CM234RLP ASSY	SSP025016M	15 IP
5696297	A16TDCLNR4KC3	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	—	—	—	CM234RLP ASSY	SSP025016M	15 IP
5696298	A20UDCLNR4KC3	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP4S15IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696299	A24UDCLNR4KC3	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696300	A24UDCLNR5KC4	1.500	1.760	.890	14.00	1/4-18 NPT	-14.0	CN..543	ICSN533	KMSP5S15IP	15 IP	CM209R ASSY	SSP025018M	15 IP
5696301	A28UDCLNR4KC3	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696302	A32VDCLNR4KC3	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696303	A32VDCLNR5KC4	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	ICSN533	KMSP515IP	15 IP	CM209R ASSY	SSP025018M	15 IP
5696304	A32VDCLNR6KC4	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	ICSN633	KMSP625IP	25 IP	CM210R ASSY	SSP025018M	25 IP
5696305	A40VDCLNR4KC3	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696306	A40VDCLNR6KC4	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	ICSN633	KMSP625IP	25 IP	CM210R ASSY	SSP025018M	25 IP
<b>left hand</b>														
5696285	A16TDCLNL3KC2	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	—	—	—	CM234RLP ASSY	SSP025016M	15 IP
5696286	A16TDCLNL4KC3	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	—	—	—	CM234RLP ASSY	SSP025016M	15 IP
5696287	A20UDCLNL4KC3	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP4S15IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696288	A24UDCLNL4KC3	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696289	A24UDCLNL5KC4	1.500	1.760	.890	14.00	1/4-18 NPT	-14.0	CN..543	ICSN533	KMSP5S15IP	15 IP	CM209R ASSY	SSP025018M	15 IP
5696290	A28UDCLNL4KC3	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696291	A32VDCLNL4KC3	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696292	A32VDCLNL5KC4	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	ICSN533	KMSP515IP	15 IP	CM209R ASSY	SSP025018M	15 IP
5696293	A32VDCLNL6KC4	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	ICSN633	KMSP625IP	25 IP	CM210R ASSY	SSP025018M	25 IP
5696294	A40VDCLNL4KC3	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	ICSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696295	A40VDCLNL6KC4	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	ICSN633	KMSP625IP	25 IP	CM210R ASSY	SSP025018M	25 IP

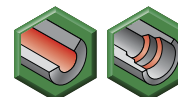
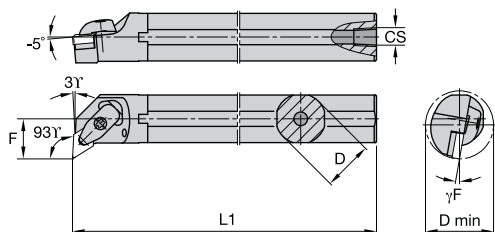
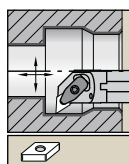
# D-Style Clamping Boring Bars for Negative Inserts

## Steel Shank with Through Coolant



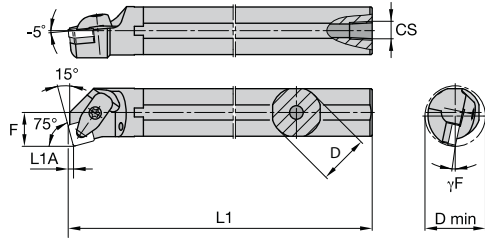
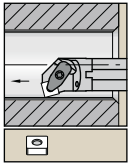
### ■ A-DDPN 27.5°

order number	catalog number	D	D min	F	L1	L1A	CS	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
<b>right hand</b>														
5696054	A20UDDPNR4KC3	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	DN.432	IDSN443	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696055	A24UDDPNR4KC3	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	DN.432	IDSN443	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP



### ■ A-DDUN -3°

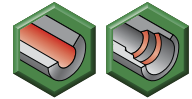
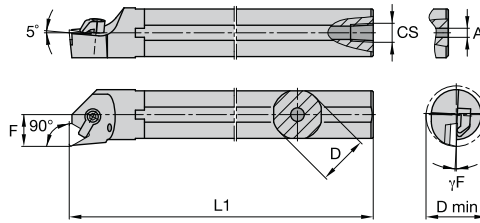
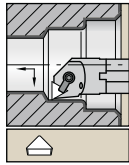
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	clamp assembly	slotted pin	Torx Plus
<b>left hand</b>													
5696056	A16TDDUNL3KC3	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	K15IP	KLM33L9IP	CM234RLP ASSY	SSP025016M	15 IP



■ **A-DSKN 15°**

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
<b>right hand</b>															
5696058	A20UDSKNR4KC3	1.500	1.760	.890	14.00	.12	1/4-18 NPT	-10.0	SN..432	ISSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP
5696059	A24UDSKNR4KC3	2.000	2.400	1.281	16.00	.18	1/4-18 NPT	-12.0	SN..643	ISSN433	KMSP415IP	25 IP	CM234R ASSY	SSP025016M	25 IP
5696070	A32VDSKNR6KC4	2.000	2.400	1.281	16.00	.18	1/4-18 NPT	-12.0	SN..643	ISSN633	KMSP625IP	25 IP	CM210R ASSY	SSP025018M	25 IP
<b>left hand</b>															
5696057	A24UDSKNL4KC3	1.500	1.760	.890	14.00	.12	1/4-18 NPT	-10.0	SN..432	ISSN433	KMSP415IP	15 IP	CM234R ASSY	SSP025016M	15 IP

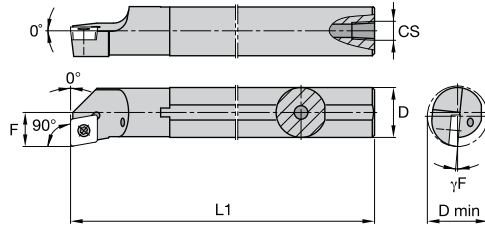
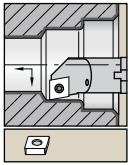




■ **A-CTFP 0°**

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
<b>right hand</b>															
2951396	A16TCTFPR3	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	TP.322	—	—	—	CK20	STC11	1/8
2951400	A20UCTFPR3	1.250	1.470	.765	14.00	.25	1/4-18 NPT	-3.0	TP.322	SM41	S19	1/16	CK10	STC8	5/32



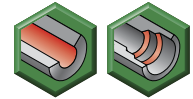
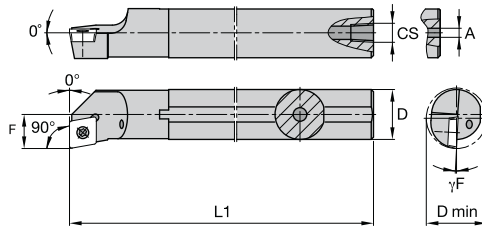
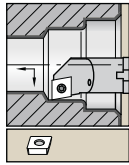


## ■ A-SCFC 0°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	insert screw	Torx
<b>right hand</b>										
3883416	A08RSCFCR2	.500	.600	.312	8.00	1/16-27 NPT	-7.0	CC..2151	<b>MS1153</b>	T7
3883418	A10SSCFR2	.625	.770	.406	10.00	1/8-27 NPT	-5.0	CC..2151	<b>MS1153</b>	T7
3883421	A12SSCFR3	.750	.930	.500	10.00	1/8-27 NPT	-5.0	CC..3252	<b>MS1155</b>	T15
<b>left hand</b>										
3883415	A08RSCFCL2	.500	.600	.312	8.00	1/16-27 NPT	-7.0	CC..2151	<b>MS1153</b>	T7
3883417	A10SSCFCL2	.625	.770	.406	10.00	1/8-27 NPT	-5.0	CC..2151	<b>MS1153</b>	T7
3883419	A12SSCFCL3	.750	.930	.500	10.00	1/8-27 NPT	-5.0	CC..3252	<b>MS1155</b>	T15

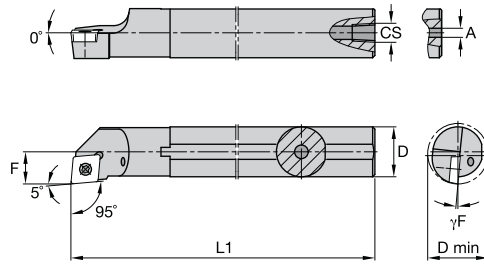
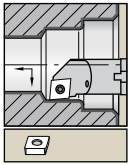
# S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant



## ■ A-SCFP 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
<b>right hand</b>											
5077440	A06MSCFPR2	.375	.480	.250	6.00	.13	—	-4.0	CP..2151	MS1153	T7
5077445	A08RSCFPR2	.500	.600	.312	8.00	—	1/16 - 27 NPT	-2.0	CP..2151	MS1153	T7
5077495	A10SSCFPR2	.625	.770	.406	10.00	—	1/8 - 27 NPT	.0	CP..2151	MS1153	T7
5077499	A12SSCFPR3	.750	.930	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	MS1155	T15
5077555	A16TSCFPR3	1.000	1.200	.640	12.00	—	1/4 - 18 NPT	.0	CP..3252	MS1155	T15
<b>left hand</b>											
5077119	A06MSCFPL2	.375	.480	.250	6.00	.13	—	-4.0	CP..2151	MS1153	T7
5077444	A08RSCFPL2	.500	.600	.312	8.00	—	1/16 - 27 NPT	-2.0	CP..2151	MS1153	T7
5077493	A10SSCFPL2	.625	.770	.406	10.00	—	1/8 - 27 NPT	.0	CP..2151	MS1153	T7
5077498	A12SSCFPL3	.750	.930	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	MS1155	T15
5077554	A16TSCFPL3	1.000	1.200	.640	12.00	—	1/4 - 18 NPT	.0	CP..3252	MS1155	T15

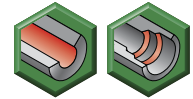
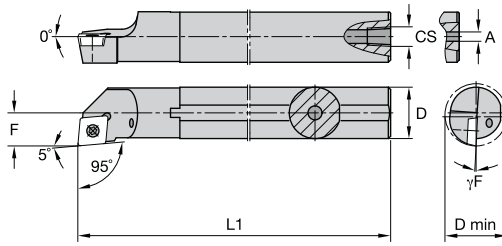
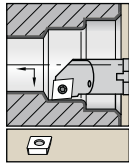


■ **A-SCLC -5°**

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
<b>right hand</b>											
2951383	A06MSCLCR2	.375	.480	.250	6.00	.13	—	-8.0	CC..2151	MS1939	T7
2951386	A08RSCLCR2	.500	.600	.312	8.00	—	1/16-27 NPT	-7.0	CC..2151	MS1153	T7
2951388	A10SSCLCR2	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	CC..2151	MS1153	T7
2951392	A12SSCLCR3	.750	.930	.500	10.00	—	1/8-27 NPT	-5.0	CC..3252	MS1155	T15
2951399	A16TSCLCR3	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	CC..3252	MS1155	T15
2951408	A20USCLCR4	1.250	1.470	.765	14.00	—	1/4-18 NPT	-5.0	CC..432	MS1157	T15
2951418	A24USCLCR4	1.500	1.760	.890	14.00	—	1/4-18 NPT	-4.0	CC..432	MS1157	T15
<b>left hand</b>											
2951391	A12SSCLCL3	.750	.930	.500	10.00	—	1/8-27 NPT	-5.0	CC..3252	MS1155	T15

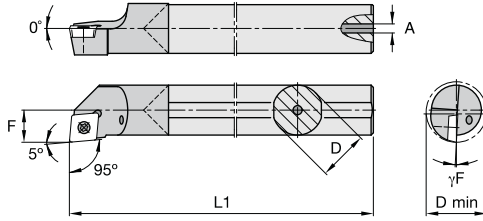
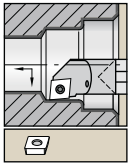
# S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant



## ■ A-SCLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
<b>right hand</b>											
5077618	A06MSCLPR2	.375	.480	.250	6.00	—	—	-6.0	CP..2151	<b>MS1153</b>	T7
5077643	A08RSCLPR2	.500	.600	.312	8.00	—	1/16 - 27 NPT	-3.0	CP..2151	<b>MS1153</b>	T7
5077648	A10SSCLPR2	.625	.770	.406	10.00	—	1/8 - 27 NPT	-2.0	CP..2151	<b>MS1153</b>	T7
5077649	A10SSCLPR3	.625	.770	.406	10.00	.16	1/8 - 27 NPT	-2.0	CPMT3252	<b>MS1155</b>	T15
5077687	A12SSCLPR3D	.750	1.030	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	<b>MS1155</b>	T15
5077686	A12SSCLPR3	.750	.930	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	<b>MS1155</b>	T15
5077699	A16TSCLPR3	1.000	1.200	.640	12.00	—	1/4 - 18 NPT	.0	CP..3252	<b>MS1155</b>	T15
<b>left hand</b>											
5077616	A06MSCLPL2	.375	.480	.250	6.00	—	—	-6.0	CP..2151	<b>MS1153</b>	T7
5077642	A08RSCLPL2	.500	.600	.312	8.00	—	1/16 - 27 NPT	-3.0	CP..2151	<b>MS1153</b>	T7
5077646	A10SSCLPL2	.625	.770	.406	10.00	—	1/8 - 27 NPT	-2.0	CP..2151	<b>MS1153</b>	T7
5077647	A10SSCLPL3	.625	.770	.406	10.00	.16	1/8 - 27 NPT	-2.0	CPMT3252	<b>MS1155</b>	T15
5077682	A12SSCLPL3	.750	.930	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	<b>MS1155</b>	T15
5077696	A16TSCLPL3	1.000	1.200	.640	12.00	—	1/4 - 18 NPT	.0	CP..3252	<b>MS1155</b>	T15

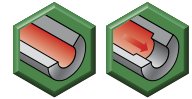
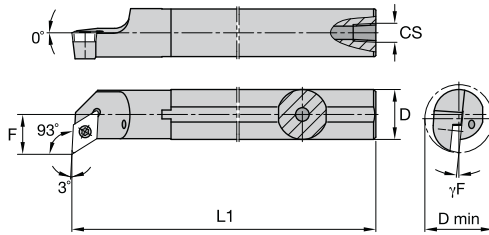
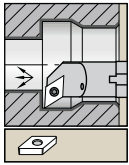


## ■ E-SCLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
<b>right hand</b>										
5092925	E05KSCLPR18	.313	.415	.219	4.950	.093	-5.0	CP..18151/CP.050204	MS1933	T7
5093092	E06MSCLPR2	.375	.480	.250	5.950	.125	-6.0	CP..2151	MS1939	T7
5093096	E08RSCLPR2	.500	.600	.312	7.930	.187	-2.0	CP..2151	MS1153	T7
5093141	E10SSCLPR2	.625	.770	.406	9.905	.218	-2.0	CP..21051	MS1153	T7
5093142	E10SSCLPR3	.625	.770	.406	9.930	.218	-3.0	CP..3252	MS1155	T15
5093147	E12SSCLPR2	.750	.930	.500	9.905	.281	-2.0	CP..2151	MS1153	T7
5093148	E12SSCLPR3	.750	.930	.500	9.905	.281	-2.0	CP..3252	MS1155	T15
5093183	E16TSCLPR3	1.000	1.200	.640	11.905	.312	.0	CP..3252	MS1155	T15
<b>left hand</b>										
5092924	E05KSCLPL18	.313	.415	.219	4.950	.093	-5.0	CP..18151/CP.050204	MS1933	T7
5093091	E06MSCLPL2	.375	.480	.250	5.950	.125	-6.0	CP..2151	MS1939	T7
5093095	E08RSCLPL2	.500	.600	.312	7.930	.187	-2.0	CP..2151	MS1153	T7
5093099	E10SSCLPL2	.625	.770	.406	9.905	.218	-2.0	CP..2151	MS1153	T7
5093140	E10SSCLPL3	.625	.770	.406	9.930	.218	-3.0	CP..3252	MS1155	T15
5093145	E12SSCLPL2	.750	.930	.500	9.905	.281	-2.0	CP..2151	MS1153	T7
5093146	E12SSCLPL3	.750	.930	.500	9.905	.281	-2.0	CP..3252	MS1155	T15
5093182	E16TSCLPL3	1.000	1.200	.640	11.905	.312	.0	CP..3252	MS1155	T15

# S-Style Screw Clamp Boring Bars for Positive Inserts

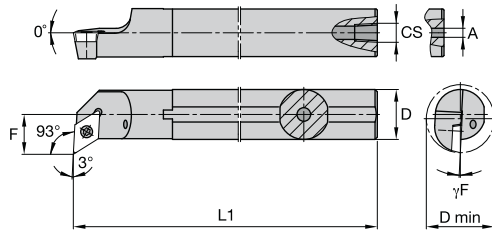
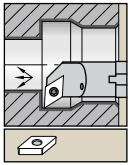
Steel Shank with Through Coolant



## ■ A-SDUC -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	insert screw	hex
<b>right hand</b>										
2951394	A12SSDUCR3	.750	.980	.562	10.00	1/8-27 NPT	-5.0	DC..3252	<b>MS1155</b>	T15
<b>left hand</b>										
2951393	A12SSDUCL3	.750	.980	.562	10.00	1/8-27 NPT	-5.0	DC..3252	<b>MS1155</b>	T15





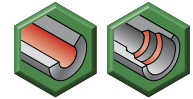
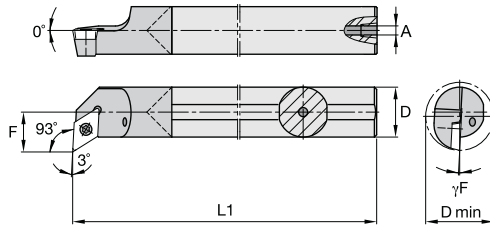
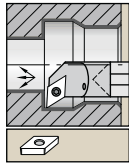
## ■ A-SDUP -3°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
<b>right hand</b>											
5078324	A06MSDUPR2	.375	.600	.375	6.000	.125	—	-3.0	DP..2151	<b>MS1153</b>	T7
5078326	A08RSDUPR2	.500	.730	.437	8.000	.156	1/16-27 NPT	.0	DP..2151	<b>MS1153</b>	T7
5078328	A10SSDUPR2	.625	.850	.500	10.000	.156	1/8-27 NPT	.0	DP..2151	<b>MS1153</b>	T7
5078362	A12SSDUPR3	.750	.980	.562	10.000	.156	1/8-27 NPT	.0	DP..3252	<b>MS1155</b>	T15
5078366	A16TSDUPR3	1.000	1.300	.750	12.000	.250	1/4-18 NPT	.0	DP..3252	<b>MS1155</b>	T15
<b>left hand</b>											
5078321	A06MSDUPL2	.375	.600	.375	6.000	.125	—	-3.0	DP..2151	<b>MS1153</b>	T7
5078325	A08RSDUPL2	.500	.730	.437	8.000	.156	1/16-27 NPT	.0	DP..2151	<b>MS1153</b>	T7
5078327	A10SSDUPL2	.625	.850	.500	10.000	.156	1/8-27 NPT	.0	DP..2151	<b>MS1153</b>	T7
5078361	A12SSDUPL3	.750	.980	.562	10.000	.156	1/8-27 NPT	.0	DP..3252	<b>MS1155</b>	T15
5078365	A16TSDUPL3	1.000	1.300	.750	12.000	.250	1/4-18 NPT	.0	DP..3252	<b>MS1155</b>	T15



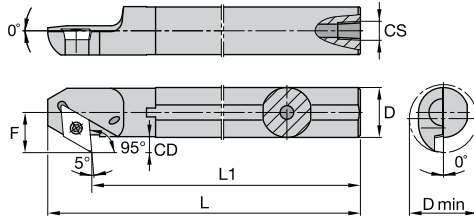
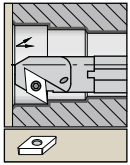
# S-Style Screw Clamp Boring Bars for Positive Inserts

Carbide Shank with Through Coolant



## ■ E-SDUP -3°

order number	catalog number	D	D min	F	L1	A	$\gamma F^\circ$	gage insert	insert screw	Torx
<b>right hand</b>										
5093422	E06MSDUPR2	.375	.600	.375	5.950	.125	-2.0	DP..2151	MS1153	T7
5093424	E08RSDUPR2	.500	.730	.437	7.930	.187	.0	DP..2151	MS1153	T7
5093427	E10SSDUPR2	.625	.850	.500	9.910	.218	.0	DP..2151	MS1153	T7
5093593	E12SSDUPR2	.750	.980	.562	9.905	.281	.0	DP..2151	MS1153	T7
5093632	E12SSDUPR3	.750	.980	.562	9.905	.281	.0	DP..3252	MS1155	T15
5093636	E16TSDUPR3	1.000	1.300	.750	11.900	.312	.0	DP..3252	MS1155	T15
<b>left hand</b>										
5093421	E06MSDUPL2	.375	.600	.375	5.950	.125	-2.0	DP..2151	MS1153	T7
5093423	E08RSDUPL2	.500	.730	.437	7.930	.187	.0	DP..2151	MS1153	T7
5093425	E10SSDUPL2	.625	.850	.500	9.910	.218	.0	DP..2151	MS1153	T7
5093592	E12SSDUPL2	.750	.980	.562	9.905	.281	.0	DP..2151	MS1153	T7
5093599	E12SSDUPL3	.750	.980	.562	9.905	.281	.0	DP..3252	MS1155	T15
5093635	E16TSDUPL3	1.000	1.300	.750	11.900	.312	.0	DP..3252	MS1155	T15

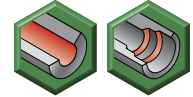
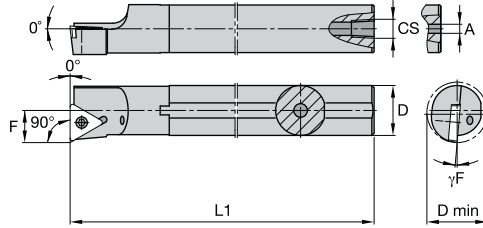
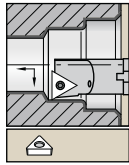


■ **A-SDXP -5**


order number	catalog number	D	D min	F	L1	L	CD	CS	gage insert	insert screw	Torx
<b>right hand</b>											
5078377	A08RSDXPR2	.500	.730	.437	8.00	8.50	.187	1/16-27 NPT	DP..2151	<b>MS1153</b>	T7
5078379	A10SSDXPR2	.620	.850	.500	10.00	10.50	.187	1/8-27 NPT	DP..2151	<b>MS1153</b>	T7
5078403	A12SSDXPR3	.750	.980	.562	10.00	10.63	.187	1/8-27 NPT	DP..3252	<b>MS1155</b>	T15
5078408	A16TSDXPR3	1.000	1.300	.750	12.00	12.66	.250	1/4-18 NPT	DP..3252	<b>MS1155</b>	T15
<b>left hand</b>											
5078378	A10SSDXPL2	.620	.850	.500	10.00	10.50	.187	1/8-27 NPT	DP..2151	<b>MS1153</b>	T7
5078402	A12SSDXPL3	.750	.980	.562	10.00	10.63	.187	1/8-27 NPT	DP..3252	<b>MS1155</b>	T15
5078406	A16TSDXPL3	1.000	1.300	.750	12.00	12.66	.250	1/4-18 NPT	DP..3252	<b>MS1155</b>	T15

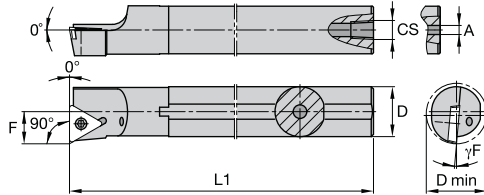
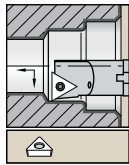
# S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant




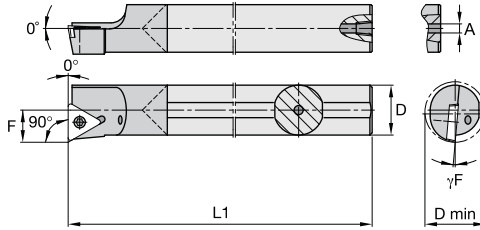
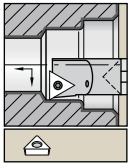
## ■ A-STFC 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	hex
<b>right hand</b>											
2951385	A06MSTFCR2	.375	.480	.250	6.00	.13	—	-8.0	TC..2151		MS1153 T7
2951387	A08RSTFCR2	.500	.600	.312	8.00	.16	1/16-27 NPT	-7.0	TC..2151	MS1153	T7
2951389	A10SSTFCR2	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	TC..2151	MS1153	T7
2951395	A12SSTFCR2	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TC..2151	MS1153	T7



## ■ A-STFP -0°

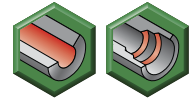
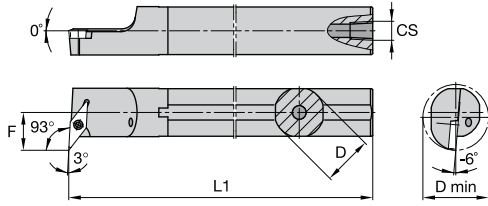
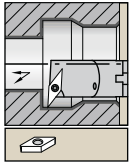
order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
<b>right hand</b>											
5086723	A06MSTFPR2	.375	.480	.250	6.000	.125	Y	-4.0	TP..2151		MS1153 T7
5086728	A08RSTFPR2	.500	.600	.312	8.000	.160	Y	-2.0	TP..2151	MS1153	T7
5086729	A10SSTFPR2	.625	.770	.406	10.000	—	Y	.0	TP..2151	MS1153	T7
5086804	A12SSTFPR3	.750	.930	.500	10.000	.156	1/8-27 NPT	-2.0	TPMT3252	MS1155	T15
5086805	A16TSTFPR3	1.000	1.200	.640	12.000	—	Y	.0	TP..3252	MS1155	T15
<b>left hand</b>											
5086722	A06MSTFPL2	.375	.480	.250	6.000	.125	Y	-4.0	TP..2151	MS1153	T7
5086727	A08RSTFPL2	.500	.600	.312	8.000	.160	Y	-2.0	TP..2151	MS1153	T7
5086803	A12SSTFPL3	.750	.930	.500	10.000	.156	1/8-27 NPT	-2.0	TPMT3252	MS1155	T15



## ■ E-STFP -0°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
<b>right hand</b>										
5093688	E05KSTFPR18	.313	.415	.219	5.000	.093	-5.0	TP..18151	<b>MS1933</b>	T7
5093689	E06DSTFPR2A	.375	.480	.250	5.879	.125	-7.0	TP41	—	3/32
5093693	E06MSTFPR2	.375	.480	.250	6.000	.125	-4.0	TP..2151	<b>MS1153</b>	T7
5093698	E08RSTFPR2	.500	.600	.312	7.930	.187	-2.0	TP..2151	<b>MS1153</b>	T7
5093753	E10SSTFPR2	.625	.770	.406	10.000	.218	.0	TP..2151	<b>MS1153</b>	T7
5093757	E12SSTFPR3	.750	.930	.500	10.000	.281	-2.0	TP..3252	<b>MS1155</b>	T15
5093771	E16TSTFPR3	1.000	1.200	.640	12.000	.312	.0	TP..3252	<b>MS1155</b>	T15
<b>left hand</b>										
5093680	E05KSTFPL18	.313	.415	.219	5.000	.093	-5.0	TP..18151	<b>MS1933</b>	T7
5093690	E06MSTFPL2	.375	.480	.250	6.000	.125	-4.0	TP..2151	<b>MS1153</b>	T7
5093697	E08RSTFPL2	.500	.600	.312	7.930	.187	-2.0	TP..2151	<b>MS1153</b>	T7
5093752	E10SSTFPL2	.625	.770	.406	10.000	.218	.0	TP..2151	<b>MS1153</b>	T7
5093756	E12SSTFPL3	.750	.930	.500	10.000	.281	-2.0	TP..3252	<b>MS1155</b>	T15
5093770	E16TSTFPL3	1.000	1.200	.640	12.000	.312	.0	TP..3252	<b>MS1155</b>	T15

**S-Style Screw Clamp Boring Bars for Positive Inserts**  
Steel Shank with Through Coolant



■ **A-SVUB -3°**

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
<b>right hand</b>									
3883423	A12SSVUBR2	.750	.980	.562	10.00	1/8-27 NPT	VB..221	<b>MS1153</b>	T7
3883425	A16TSVUBR3	1.000	1.300	.750	12.00	1/4-18 NPT	VB..332	<b>MS1155</b>	T15
<b>left hand</b>									
3883422	A12SSVUBL2	.750	.980	.562	10.00	1/8-27 NPT	VB..221	<b>MS1153</b>	T7
3883424	A16TSVUBL3	1.000	1.300	.750	12.00	1/4-18 NPT	VB..332	<b>MS1155</b>	T15



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