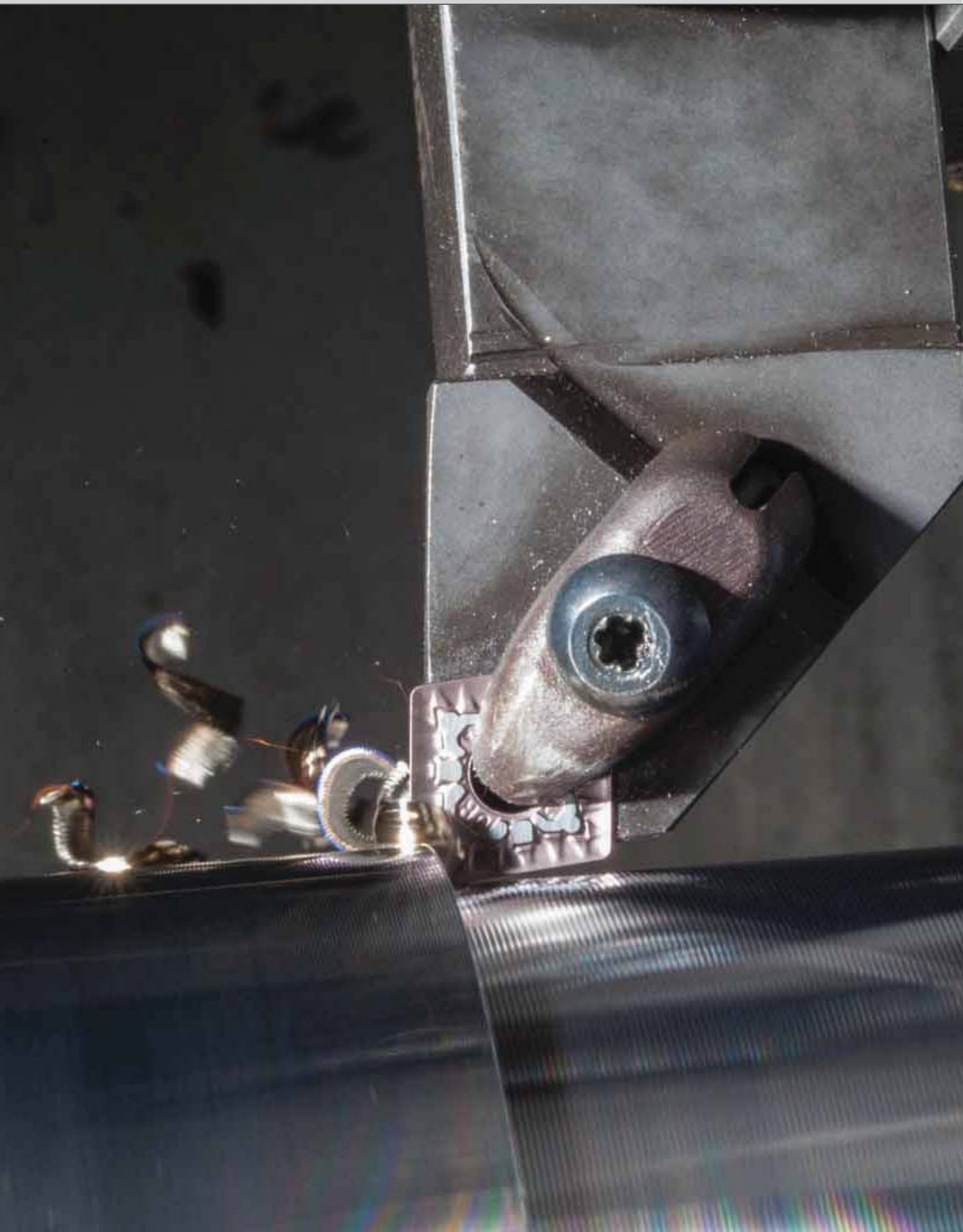




2017 Master Catalog

WIDIA  TM



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.

Tools for Internal Boring



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.

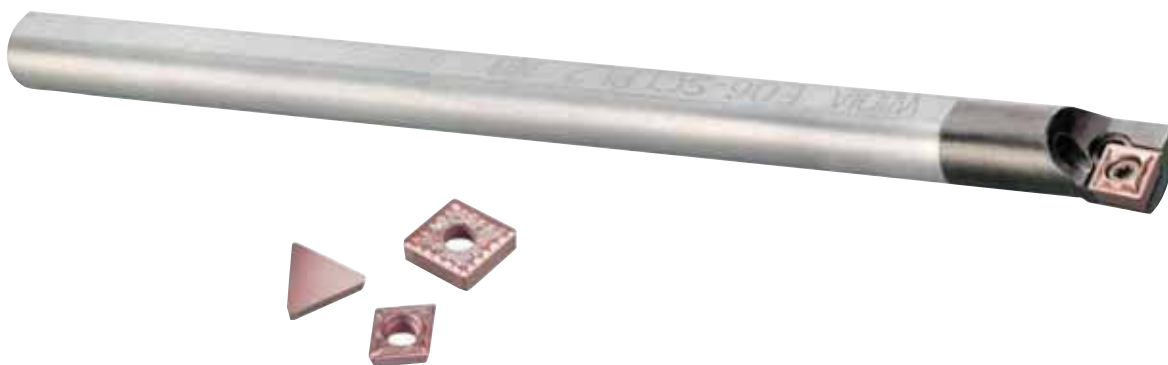
D-Style Clamping

- 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

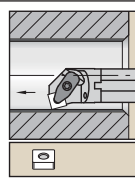
- Screw clamping system for positive indexable inserts.
- Compact design for high reliability and cost efficiency.
- Carbide shim for additional tool protection.

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.



A-DCFN

Product Name

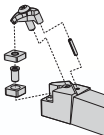
Application Illustration

Page: C36

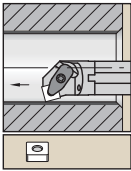
Page Number

D-Style Clamping

D



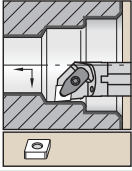
One-piece clamp assembly holder for use with negative style inserts. An extremely rigid clamping system. The tool is protected by a carbide shim.



A-DCFN

0°

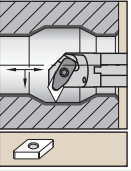
Page: C36



A-DCLN

-5°

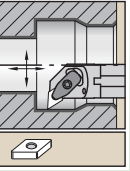
Page: C37



A-DDPN

27.5°

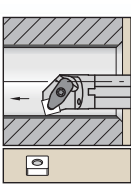
Page: C38



A-DDUN

-3°

Page: C38



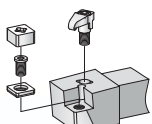
A-DSKN

15°

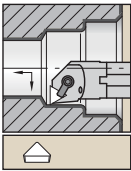
Page: C39

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".



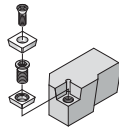
A-CTFP

0°

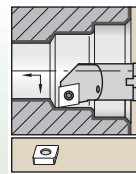
Page: C39

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.

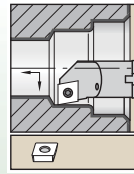


A-SCFC

0°

Page:

C40

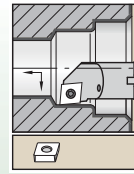


A-SCFP

0°

Page:

C41

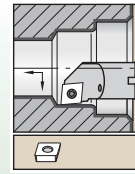


A-SCLC

-5°

Page:

C42

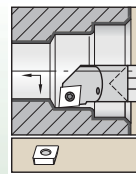


A-SCLP

-5°

Page:

C43

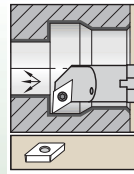


E-SCLP

-5°

Page:

C44

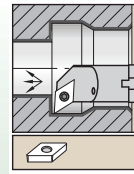


A-SDUC

-3°

Page:

C45

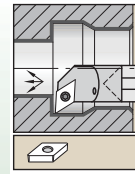


A-SDUP

-3°

Page:

C46

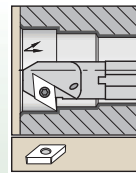


E-SDUP

-3°

Page:

C47

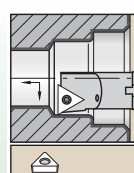


A-SDXP

-5°

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C48

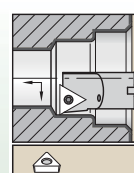


A-STFC

0°

Page:

C49

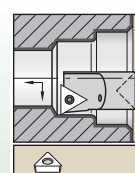


A-STFP

0°

Page:

C49

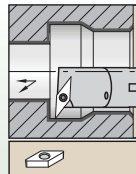


E-STFP

0°

Page:

C50



A-SVUB

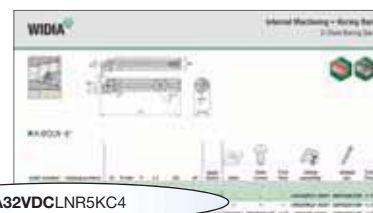
-3°

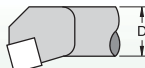
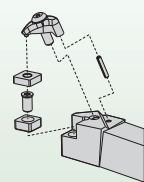
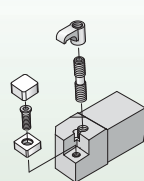
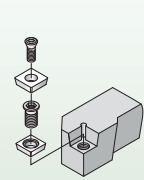
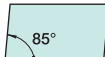
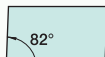
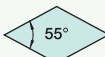
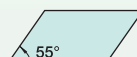
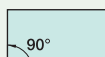
Page:

C51

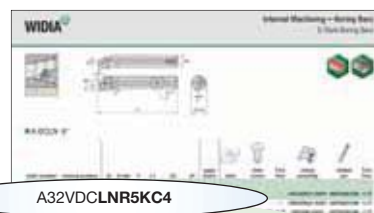
How Do Catalog Numbers Work?

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.



A	32	V	D	C
Bar Type	Bar Diameter	Bar Length**	Insert Holding Method	Insert Shape
A  Steel bar with coolant S  Steel bar without coolant C  Carbide bar D  DeVibrator bar with coolant D  Tunable bar with coolant E  Carbide bar with coolant B  DeVibrator H  Interchangeable head L  Heavy metal 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 **Used only when more than one length is available or a special length is required.	D  C  S 	A  85° B  82° C  80° D  55° E  75° H  120° K  55° L  90° M  86° O  135° P  108° R  S  90° T  60° V  35° W  80°

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

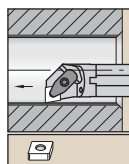


A32VDCLNR5KC4

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

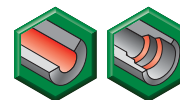
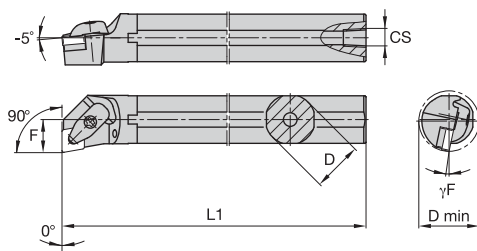
D-Style Clamping Boring Bars for Negative Inserts

Steel Shank with Through Coolant



Steel shank with through coolant.

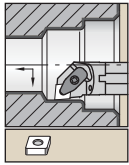
See pages B30–B46 for inserts.



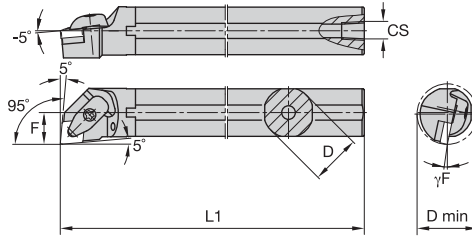
A-DCFN 0°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
5696051	A16TDCFN4KC3	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
left hand														
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





Steel shank with through coolant.
See pages B30–B46 for inserts.

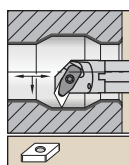


A-DCLN -5°

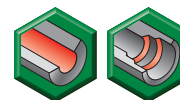
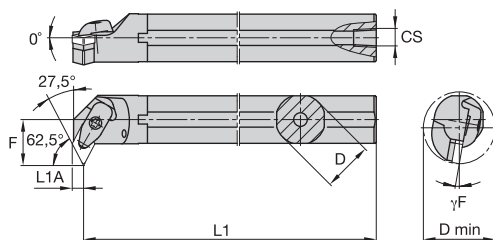
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
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5696300	A24UDCLNR5KC4	1.500	1.760	.890	14.00	1/4-18 NPT	-14.0	CN..543	ICSN533	KMSP5S15IP	15 IP	CM209R 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
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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
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left hand														
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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
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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

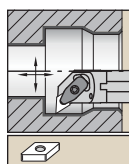


Steel shank with through coolant.
See pages B47–B64 for inserts.

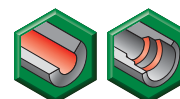
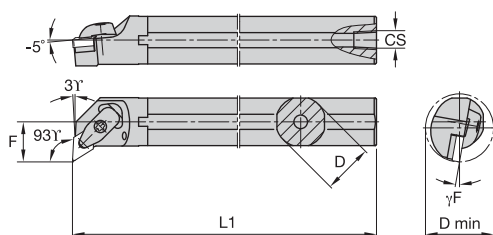


A-DDPN 27.5°

order number	catalog number	D	D min	F	L1	L1A	CS	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
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

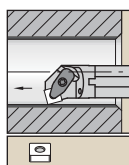


Steel shank with through coolant.
See pages B47–B64 for inserts.

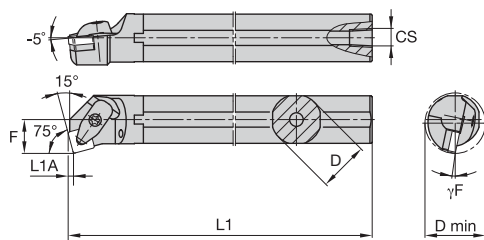


A-DDUN -3°

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

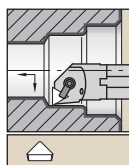


Steel shank with through coolant.
See pages B68–B80 for inserts.

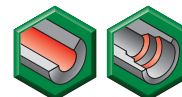
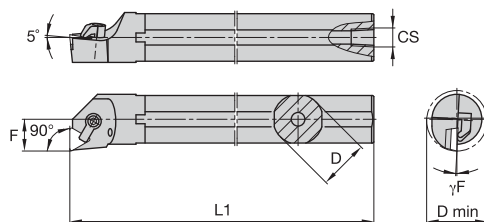


■ A-DSKN 15°

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
right hand															
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
left hand															
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



Steel shank with through coolant.
See pages B192–B194 and B212–B216 for inserts.

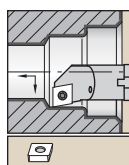


■ A-CTFP 0°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
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	1/4-18 NPT	-3.0	TP.322	SM41	S19	1/16	CK10	STC8	5/32

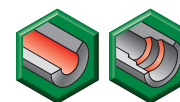
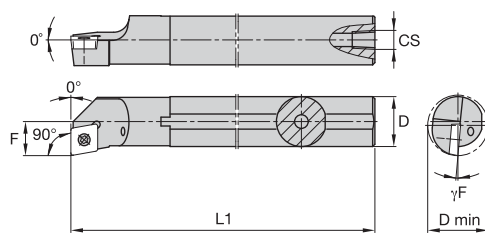
S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant



Steel shank with through coolant.

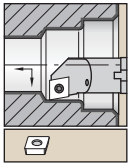
See pages B30–B46 for inserts.



■ A-SCFC 0°

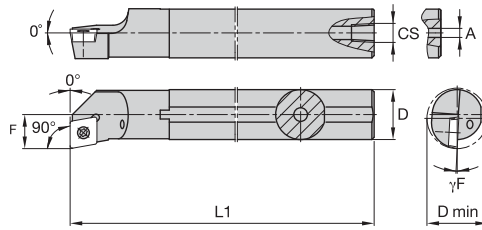


order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	insert screw	Torx
right hand										
3883416	A08RSCFCR2	.500	.600	.312	8.00	1/16-27 NPT	-7.0	CC..2151	MS1153	T7
3883418	A10SSFCR2	.625	.770	.406	10.00	1/8-27 NPT	-5.0	CC..2151	MS1153	T7
3883421	A12SSFCR3	.750	.930	.500	10.00	1/8-27 NPT	-5.0	CC..3252	MS1155	T15
left hand										
3883415	A08RSCFCL2	.500	.600	.312	8.00	1/16-27 NPT	-7.0	CC..2151	MS1153	T7
3883417	A10SSCFCL2	.625	.770	.406	10.00	1/8-27 NPT	-5.0	CC..2151	MS1153	T7
3883419	A12SSCFCL3	.750	.930	.500	10.00	1/8-27 NPT	-5.0	CC..3252	MS1155	T15



Steel shank with through coolant.

See pages B30–B46 for inserts.



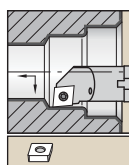
■ A-SCFP 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
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
left hand											
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

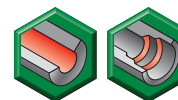
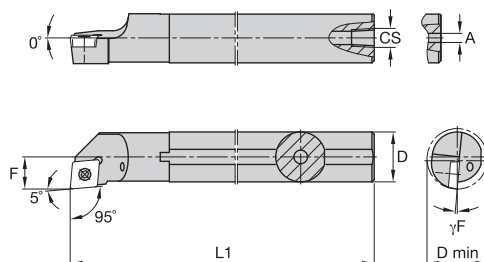


S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant



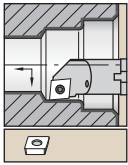
Steel shank with through coolant.
See pages B30–B46 for inserts.



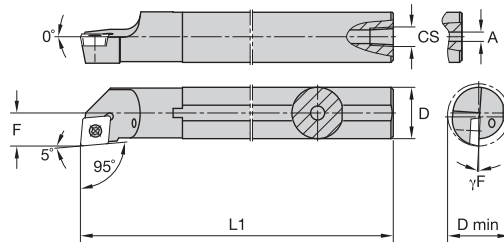
■ A-SCLC -5°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
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
left hand											
2951391	A12SSCLCL3	.750	.930	.500	10.00	—	1/8-27 NPT	-5.0	CC..3252	MS1155	T15



Steel shank with through coolant.
See pages B30–B46 for inserts.



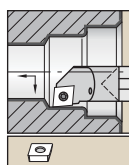
■ A-SCLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
5077618	A06MSCLPR2	.375	.480	.250	6.00	.13	—	-6.0	CP..2151	MS1153	T7
5077643	A08RSCLPR2	.500	.600	.312	8.00	.16	1/16 - 27 NPT	-3.0	CP..2151	MS1153	T7
5077648	A10SSCLPR2	.625	.770	.406	10.00	—	1/8 - 27 NPT	-2.0	CP..2151	MS1153	T7
5077649	A10SSCLPR3	.625	.770	.406	10.00	.16	1/8 - 27 NPT	-2.0	CPMT3252	MS1155	T15
5077687	A12SSCLPR3D	.750	1.030	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	MS1155	T15
5077686	A12SSCLPR3	.750	.930	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	MS1155	T15
5077699	A16TSCLPR3	1.000	1.200	.640	12.00	—	1/4 - 18 NPT	.0	CP..3252	MS1155	T15
left hand											
5077616	A06MSCLPL2	.375	.480	.250	6.00	.13	—	-6.0	CP..2151	MS1153	T7
5077642	A08RSCLPL2	.500	.600	.312	8.00	—	1/16 - 27 NPT	-3.0	CP..2151	MS1153	T7
5077646	A10SSCLPL2	.625	.770	.406	10.00	—	1/8 - 27 NPT	-2.0	CP..2151	MS1153	T7
5077647	A10SSCLPL3	.625	.770	.406	10.00	.16	1/8 - 27 NPT	-2.0	CPMT3252	MS1155	T15
5077682	A12SSCLPL3	.750	.930	.500	10.00	—	1/8 - 27 NPT	-2.0	CP..3252	MS1155	T15
5077696	A16TSCLPL3	1.000	1.200	.640	12.00	—	1/4 - 18 NPT	.0	CP..3252	MS1155	T15



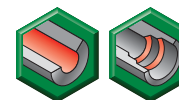
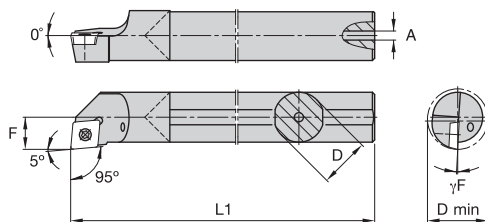
S-Style Screw Clamp Boring Bars for Positive Inserts

Carbide Shank with Through Coolant



Carbide shank with through coolant.

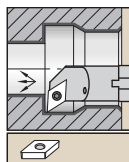
See pages B30-B46 for inserts.



E-SCLP -5°

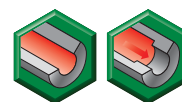
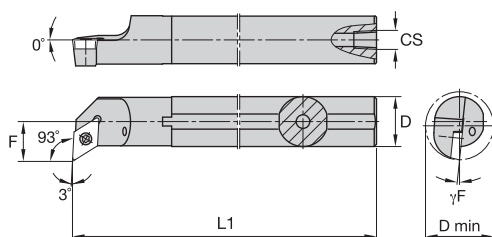


order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
5092925	E05KSCLPR18	.313	.415	.219	4.950	.093	-5.0	CP..18151	MS1933	T7
5093092	E06MSCLPR2	.375	.480	.250	5.950	.125	-6.0	CP..2151	MS1939	T7
5093096	E08RSCCLPR2	.500	.600	.312	7.930	.187	-2.0	CP..2151	MS1153	T7
5093141	E10SSCLPR2	.625	.770	.406	9.905	.218	-2.0	CP..2151	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
left hand										
5092924	E05KSCLPL18	.313	.415	.219	4.950	.093	-5.0	CP..18151	MS1933	T7
5093091	E06MSCLPL2	.375	.480	.250	5.950	.125	-6.0	CP..2151	MS1939	T7
5093095	E08RSCCLPL2	.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



Steel shank with through coolant.

See pages B47–B64 for inserts.



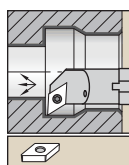
■ A-SDUC -3°

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



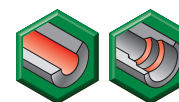
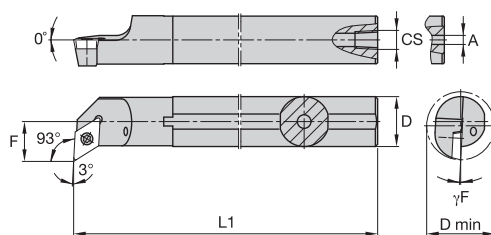
S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant



Steel shank with through coolant.

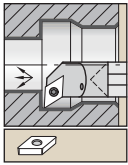
See pages B47-B64 for inserts.



■ A-SDUP -3°

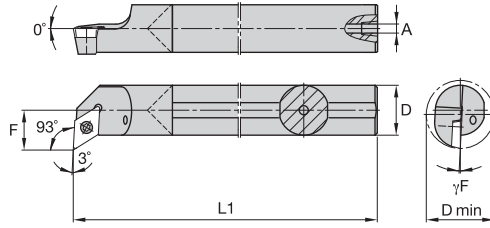
order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
5078324	A06MSDUPR2	.375	.600	.375	6.000	.125	—	-3.0	DP..2151	MS1153	T7
5078326	A08RSDUPR2	.500	.730	.437	8.000	.156	1/16-27 NPT	.0	DP..2151	MS1153	T7
5078328	A10SSDUPR2	.625	.850	.500	10.000	.156	1/8-27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





Carbide shank with through coolant.

See pages B47–B64 for inserts.



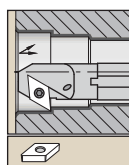
■ E-SDUP -3°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
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
left hand										
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

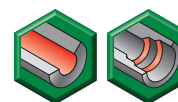
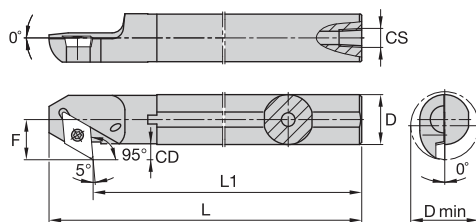


S-Style Screw Clamp Boring Bars for Positive Inserts

Steel Shank with Through Coolant



Steel shank with through coolant.

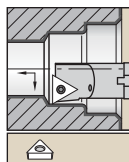


See pages B47-B64 for inserts.

■ A-SDXP -5°

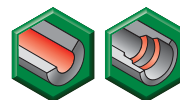
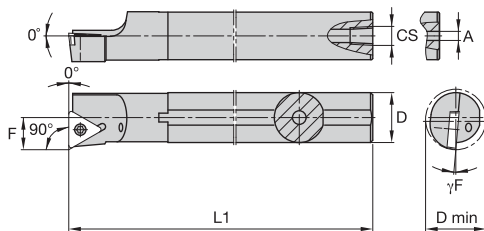


order number	catalog number	D	D min	F	L1	L	CD	CS	gage insert	insert screw	Torx
right hand											
5078377	A08RSDXPR2	.500	.730	.437	8.00	8.50	.187	1/16-27 NPT	DP..2151	MS1153	T7
5078379	A10SSDXPR2	.620	.850	.500	10.00	10.50	.187	1/8-27 NPT	DP..2151	MS1153	T7
5078403	A12SSDXPR3	.750	.980	.562	10.00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



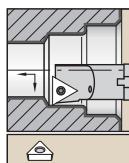
Steel shank with through coolant.

See pages B81–B93 for inserts.



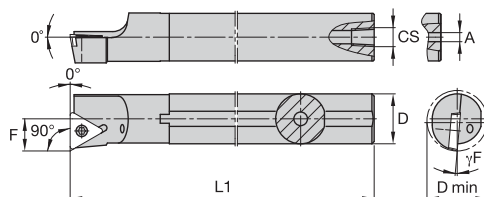
■ A-STFC 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	hex
right hand											
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	.16	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



Steel shank with through coolant.

See pages B81–B93 for inserts.



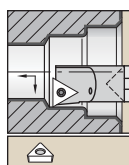
■ A-STFP 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
5086723	A06MSTFPR2	.375	.480	.250	6.000	.125	—	-4.0	TP..2151	MS1153	T7
5086728	A08RSTFPR2	.500	.600	.312	8.000	.160	—	-2.0	TP..2151	MS1153	T7
5086729	A10SSTFPR2	.625	.770	.406	10.000	.156	1/8-27 NPT	.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	.250	1/4 - 18 NPT	.0	TP..3252	MS1155	T15
left hand											
5086722	A06MSTFPL2	.375	.480	.250	6.000	.125	—	-4.0	TP..2151	MS1153	T7
5086727	A08RSTFPL2	.500	.600	.312	8.000	.160	1/16 - 27 NPT	-2.0	TP..2151	MS1153	T7
5086803	A12SSTFPL3	.750	.930	.500	10.000	.156	1/8-27 NPT	-2.0	TPMT3252	MS1155	T15



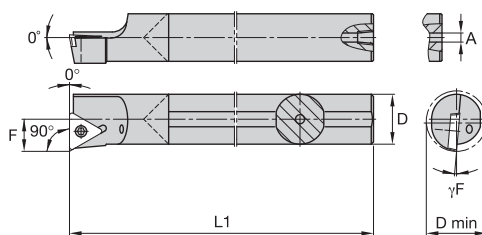
S-Style Screw Clamp Boring Bars for Positive Inserts

Carbide Shank with Through Coolant



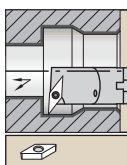
Carbide shank with through coolant.

See pages B81–B93 for inserts.



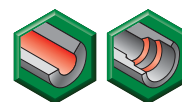
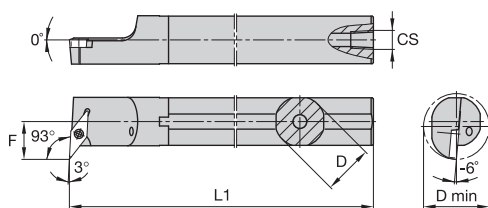
■ E-STFP 0°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	insert screw	Torx
right hand											
5093688	E05KSTFPR18	.313	.415	.219	5.000	.093	-5.0	TP..18151	MS1933	—	T7
5093689	E06DSTFPR2A	.375	.480	.250	5.879	.125	-7.0	TP41	—	S32	3/32
5093693	E06MSTFPR2	.375	.480	.250	6.000	.125	-4.0	TP..2151	MS1153	—	T7
5093698	E08RSTFPR2	.500	.600	.312	7.930	.187	-2.0	TP..2151	MS1153	—	T7
5093753	E10SSTFPR2	.625	.770	.406	10.000	.218	.0	TP..2151	MS1153	—	T7
5093757	E12SSTFPR3	.750	.930	.500	10.000	.281	-2.0	TP..3252	MS1155	—	T15
5093771	E16TSTFPR3	1.000	1.200	.640	12.000	.312	.0	TP..3252	MS1155	—	T15
left hand											
5093680	E05KSTFPL18	.313	.415	.219	5.000	.093	-5.0	TP..18151	MS1933	—	T7
5093690	E06MSTFPL2	.375	.480	.250	6.000	.125	-4.0	TP..2151	MS1153	—	T7
5093697	E08RSTFPL2	.500	.600	.312	7.930	.187	-2.0	TP..2151	MS1153	—	T7
5093752	E10SSTFPL2	.625	.770	.406	10.000	.218	.0	TP..2151	MS1153	—	T7
5093756	E12SSTFPL3	.750	.930	.500	10.000	.281	-2.0	TP..3252	MS1155	—	T15
5093770	E16TSTFPL3	1.000	1.200	.640	12.000	.312	.0	TP..3252	MS1155	—	T15



Steel shank with through coolant.

See pages B94-B99 for inserts.



■ A-SVUB -3°

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

