

CHATTER ♦ FREE

BORING BARS

By:

ULTRA-DEX

Proudly Made in Flushing, MI USA



Standard Connection

Serrated Connection

ULTRA-DEX



AHB Tooling & Machinery, Inc.
Complete Metalworking Solutions
Roseville Saginaw & Jackson, MI

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CHATTER-FREE

Proudly Made in Flushing, MI USA

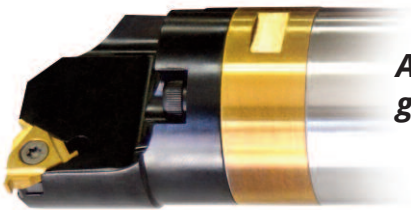
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Our Chatter-Free Tooling (CFT) utilizes **Tunable Internal Dampening Technology**. This technology enables extended reaches of up to 10x bar diameter and 14x bar diameter with our carbide reinforced bars. Increase productivity with higher feed rates and improved surface finishes. The CFT modular system gives the operator the ability to perform multiple operations with one bar. We offer heads for roughing, finishing, grooving, and threading.

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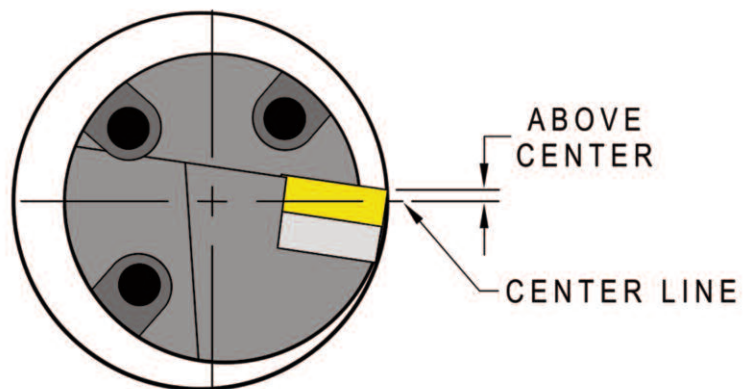
Setup Tips

- ◆ Choosing the largest possible bar size with the shortest overhang will provide rigidity to minimize vibrations.
- ◆ Make sure to allow clearance for chips.
- ◆ 5:1 Chatter-Free bars are recommended for grooving and threading where forces are higher than in turning.
- ◆ Proper clamping of the bar is crucial to performance. - *see page 3* -
(set screws should not come in contact with the bar)



All Chatter-Free bars have a flat located on the gold ring to indicate the insert on center line.

- ◆ Overhang is measured from cutting edge to face of boring bar holder. Bars should not be extended past the specified diameter to length ratio. The Bars can be modified to reduce overall length. - *see page 4* -
- ◆ To compensate for bar deflection due to extended overhangs, rotating the insert above center line will help.



Proper Holding

Split Collar System

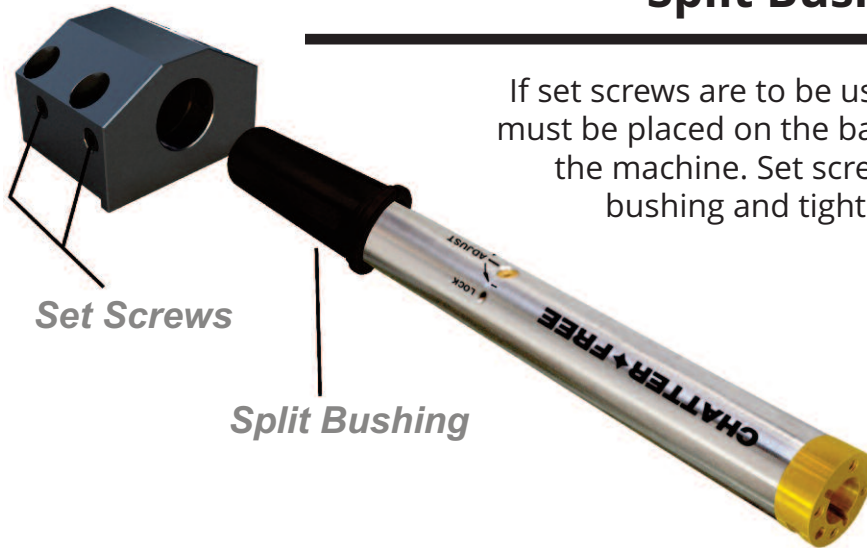
To assure the best rigidity of the boring bar, the Split Collar System is the best holder. This process is achieved by locking the bar 360° on the diameter.



BEST

Split Bushing System

If set screws are to be used, a split bushing must be placed on the bar before placing in the machine. Set screws will contact the bushing and tighten around the bar.



BETTER



Set Screw Lock System

DO NOT lock in the boring bar with set screws. This creates very poor rigidity when there is one point of contact.

BAD

Hangout Specs

5:1 Ratio

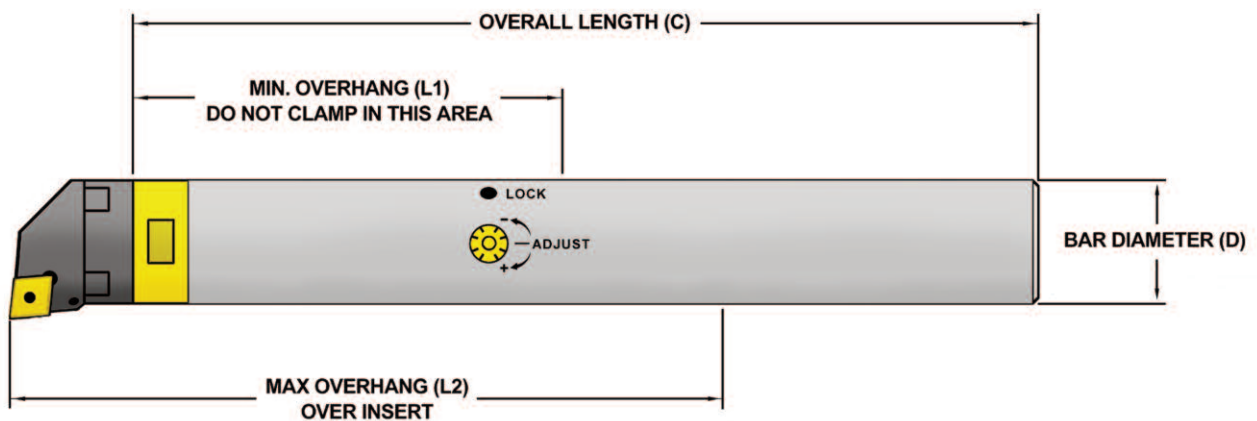
BAR DIAMETER (D)	MIN. OVERHANG (L1)	MAX. OVERHANG (L2)	OVERALL LENGTH (C)	WEIGHT (LBS)
1.500	5.750	7.50	9.00	4.5
2.000	6.375	10.00	12.00	10.7
2.500	6.750	12.50	16.00	22.8

7:1 Ratio

1.000	5.000	7.00	10.00	2.2
1.250	5.000	8.75	12.00	4.1
1.500	5.750	10.50	15.00	7.5
1.750	6.000	12.25	18.00	11.3
2.000	6.375	14.00	20.00	18.0
2.500	6.750	17.50	27.00	42.0
3.000	12.500	21.00	31.00	63.0

10:1 Ratio

1.000	6.000	10.00	14.00	3.1
1.250	6.750	12.50	16.00	5.7
1.500	9.000	15.00	19.00	11.0
1.750	10.625	17.50	23.00	17.0
2.000	12.375	20.00	26.00	25.0
2.500	15.875	25.00	33.00	42.0
3.000	19.375	30.00	40.00	88.0
4.000	26.375	40.00	50.00	182.0



ULTRA-DEX recommends a min. clamping length of $3xD$
 5:1 Chatter-Free bars have a min. clamping length of $2xD$

Hangout Specs

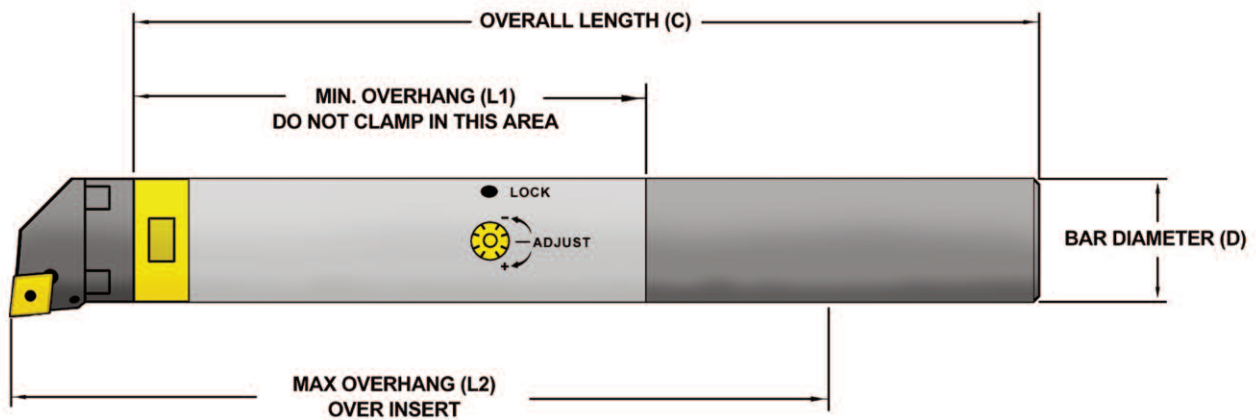
(Carbide Reinforced)

12:1 Ratio

BAR DIAMETER (D)	MIN. OVERHANG (L1)	MAX. OVERHANG (L2)	OVERALL LENGTH (C)	WEIGHT (LBS)
1.000	9.250	12.00	16.00	5.9
1.250	12.160	15.00	18.00	9.0
1.500	14.750	18.00	22.00	16.4
1.750	16.435	21.00	25.00	25.4
2.000	17.750	24.00	29.00	37.7

14:1 Ratio

1.000	9.250	14.00	18.00	6.9
1.250	12.160	17.50	21.00	10.9
1.500	14.750	21.00	25.00	18.6
1.750	16.435	24.50	29.00	31.0
2.000	17.750	28.00	33.00	44.2

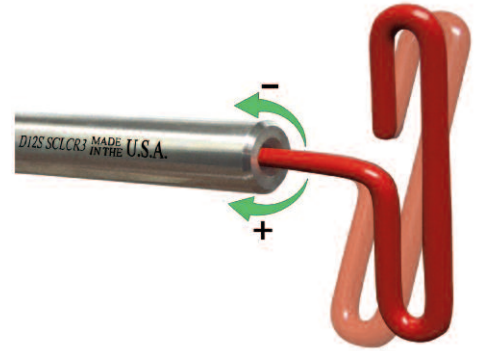


ULTRA-DEX recommends a min. clamping length of 3xD

Tuning Guide

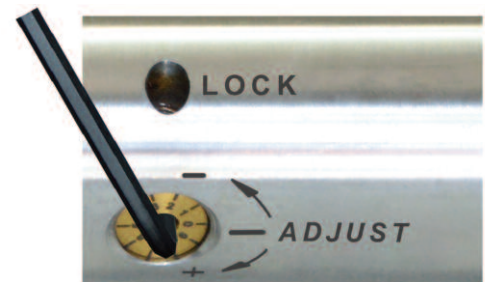
For Bars \varnothing .75" and Smaller:

1. Make a test cut with the bar.
2. Insert supplied T-handle wrench into the end of the bar.
3. If the pitch of the chatter was high, tighten the adjust screw 1/16 turn. (+)
If the pitch of the chatter was low, loosen the adjust screw 1/16 turn. (-)
4. Make a test cut with the bar.
5. Repeat step 3 until the desired performance is achieved.



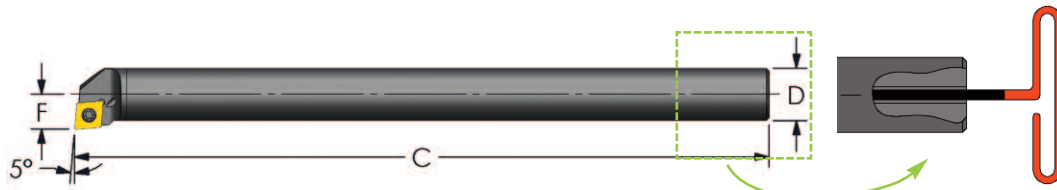
For Bars \varnothing 1.0" and Above:

1. Make a test cut with the bar.
2. Loosen lock screw two complete turns in the negative direction.
3. If the pitch of the chatter was high, tighten the adjust screw 1/2 digit. (+)
If the pitch of the chatter was low, loosen the adjust screw 1/2 digit. (-)
4. Make a test cut with the bar.
5. Repeat step 3 until the desired performance is achieved.
6. Tighten lock screw. **DO NOT** over tighten lock screw.



All Chatter-Free boring bars come pre-tuned from the factory, but due to variances in the rigidity of each machine the bars may need to be tuned.

Chatter-Free Solid Bars



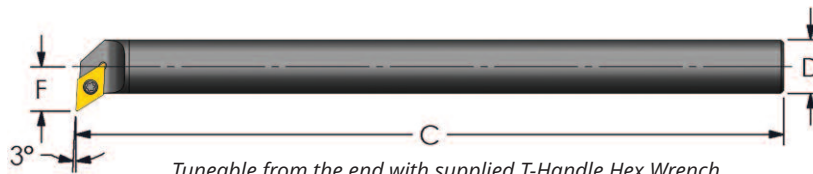
Tuneable from the end with supplied T-Handle Hex Wrench.

8:1 Ratio

Positive 80° Diamond (-5° Lead)

Coolant Thru

Designation	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
D08R SCLCR2	.500	8	.281	.580	CCMT 21.51	MTS-255	T-7	\$652.87
D10X SCLCR3	.625	9	.406	.770	CCMT 32.51	MTS-35	T-15	\$707.73
D12S SCLCR3	.750	10	.500	.930		MTS-35	T-15	\$762.59



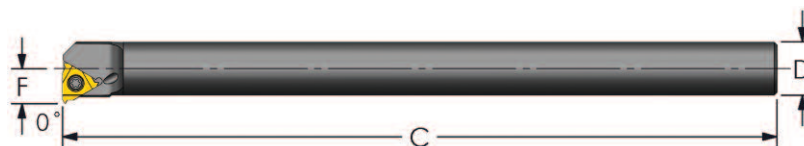
Tuneable from the end with supplied T-Handle Hex Wrench.

8:1 Ratio

Positive 55° Diamond (-3° Lead)

Coolant Thru

Designation	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
D08R SDUCR2	.500	8	.437	.730	DCMT 21.51	MTS-255	T-7	\$652.87
D10X SDUCR2	.625	9	.500	.850		MTS-255	T-7	\$707.73
D12S SDUCR3	.750	10	.625	1.050	DCMT 32.51	MTS-35	T-15	\$762.59



Tuneable from the end with supplied T-Handle Hex Wrench.

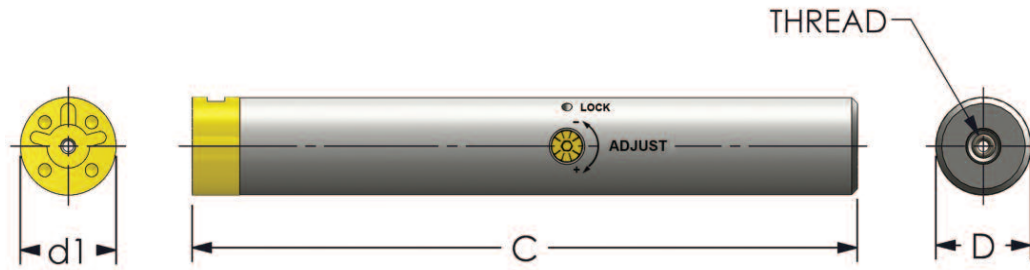
8:1 Ratio

Threading/Grooving Laydown

Coolant Thru

Designation	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Price
D12S LSER3	.750	10	.510	.935	3IR	MTS-35	\$762.59

(Prices are subject to change without notice.)



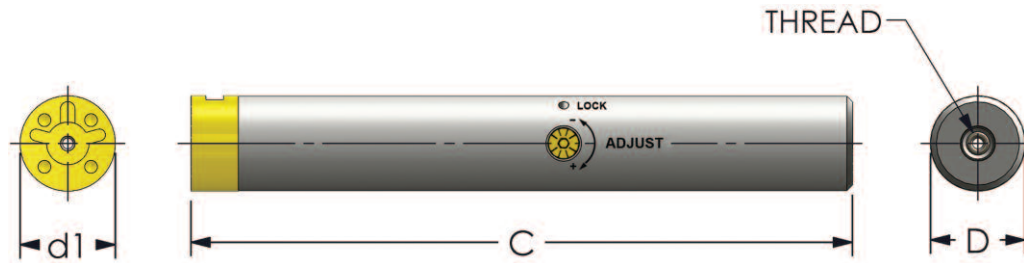
Standard (Pin) Bars (English)

Coolant Thru

Designation	D Dia.	d1 (Coupling)	C OAL	Min Bore	Head Bolts	Thread	Price
5:1 Ratio							
CFT B1500-9	1.500	1.500	9	1.760	10-24 HB	1/8-27 NPT	\$1,157.60
CFT B2000-12	2.000	2.000	12	2.400	1/4-20 HB	1/8-27 NPT	\$1,406.67
CFT B2500-16	2.500	2.500	16	2.800	5/16-18 HB	1/8-27 NPT	\$1,913.60
7:1 Ratio							
CFT B1000-10	1.000	1.000	10	1.200	8-32 HB	1/8-27 NPT	\$888.77
CFT B1250-12	1.250	1.250	12	1.470	10-24 HB	1/8-27 NPT	\$993.02
CFT B1500-15	1.500	1.500	15	1.760	10-24 HB	1/8-27 NPT	\$1,157.60
CFT B1750-18	1.750	1.750	18	2.010	1/4-20 HB	1/8-27 NPT	\$1,327.67
CFT B2000-20	2.000	2.000	20	2.400	1/4-20 HB	1/8-27 NPT	\$1,406.67
CFT B2500-27	2.500	2.500	27	2.800	5/16-18 HB	1/4-18 NPT	\$1,913.60
CFT B3000-31	3.000	2.500	31	3.525	5/16-18 HB	1/4-18 NPT	\$2,304.23
10:1 Ratio							
CFT B1000-14	1.000	1.000	14	1.200	8-32 HB	1/8-27 NPT	\$1,716.10
CFT B1250-16	1.250	1.250	16	1.470	10-24 HB	1/8-27 NPT	\$1,869.71
CFT B1500-19	1.500	1.500	19	1.760	10-24 HB	1/8-27 NPT	\$1,919.10
CFT B1750-23	1.750	1.750	23	2.010	1/4-20 HB	1/8-27 NPT	\$2,024.43
CFT B2000-26	2.000	2.000	26	2.400	1/4-20 HB	1/8-27 NPT	\$2,134.16
CFT B2500-33	2.500	2.500	33	2.800	5/16-18 HB	1/8-18 NPT	\$2,909.91
CFT B3000-40	3.000	2.500	40	3.525	5/16-18 HB	1/4-18 NPT	\$4,222.22
CFT B4000-50	4.000	2.500	50	4.350	5/16-18 HB	1/4-18 NPT	\$7,465.69
12:1 Ratio							
CFT B1000-16	1.000	1.000	16	1.200	8-32 HB	--	\$3,805.26
CFT B1250-18	1.250	1.250	18	1.470	10-24 HB	--	\$4,710.50
CFT B1500-22	1.500	1.500	22	1.760	10-24 HB	--	\$5,806.65
CFT B1750-25	1.750	1.750	25	2.010	1/4-20 HB	--	\$7,098.12
CFT B2000-29	2.000	2.000	29	2.400	1/4-20 HB	--	\$8,904.19
14:1 Ratio							
CFT B1000-18	1.000	1.000	18	1.200	8-32 HB	--	\$7,419.60
CFT B1250-21	1.250	1.250	21	1.470	10-24 HB	--	\$8,842.74
CFT B1500-25	1.500	1.500	25	1.760	10-24 HB	--	\$10,262.58
CFT B1750-29	1.750	1.750	29	2.010	1/4-20 HB	--	\$11,940.27
CFT B2000-33	2.000	2.000	33	2.400	1/4-20 HB	--	\$15,296.77

Chatter-Free Modular Bars

(Standard Pin Connection)

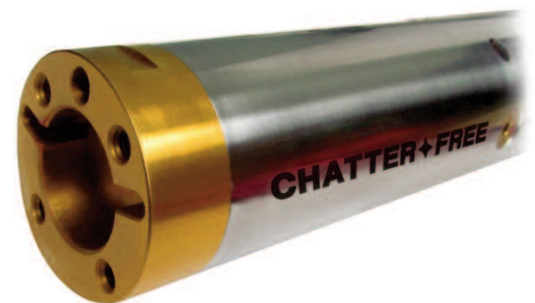


Standard (Pin) Bars (Metric)

Coolant Thru

Designation	D Dia.	d1 (Coupling)	C OAL	Min Bore	Head Bolts	Thread	Price
7:1 Ratio							
CFT B25MM-250	25mm	1.000	250mm	1.200	8-32 HB	1/8-27 NPT	\$888.77
CFT B32MM-320	32mm	1.250	320mm	1.470	10-24 HB	1/8-27 NPT	\$993.02
CFT B40MM-400	40mm	1.500	400mm	1.760	10-24 HB	1/8-27 NPT	\$1,157.60
CFT B50MM-500	50mm	2.000	500mm	2.400	1/4-20 HB	1/8-27 NPT	\$1,406.67
CFT B60MM-600	60mm	2.000	600mm	2.830	1/4-20 HB	1/8-27 NPT	\$1,913.60
10:1 Ratio							
CFT B25MM-325	25mm	1.000	325mm	1.200	8-32 HB	1/8-27 NPT	\$1,716.10
CFT B32MM-416	32mm	1.250	416mm	1.470	10-24 HB	1/8-27 NPT	\$1,869.71
CFT B40MM-520	40mm	1.500	520mm	1.760	10-24 HB	1/8-27 NPT	\$1,919.10
CFT B50MM-650	50mm	2.000	650mm	2.400	1/4-20 HB	1/8-27 NPT	\$2,134.16
CFT B60MM-780	60mm	2.000	780mm	2.830	1/4-20 HB	1/8-27 NPT	\$2,909.91
12:1 Ratio							
CFT B32MM-480	32mm	1.250	480mm	1.470	10-24 HB	--	\$4,710.50
CFT B40MM-600	40mm	1.500	600mm	1.760	10-24 HB	--	\$5,806.65
CFT B50MM-750	50mm	2.000	750mm	2.400	1/4-20 HB	--	\$8,904.19
14:1 Ratio							
CFT B32MM-544	32mm	1.250	544mm	1.470	10-24 HB	--	\$8,842.74
CFT B40MM-680	40mm	1.500	680mm	1.760	10-24 HB	--	\$10,262.58
CFT B50MM-850	50mm	2.000	850mm	2.400	1/4-20 HB	--	\$15,296.77

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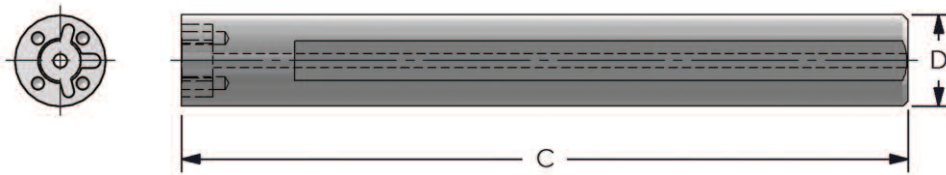


Modular Bars

(Standard Pin Connection)



In addition to our Chatter-Free bars, we offer a solid carbide or steel alternative with the same connection! These solid bars fit all heads following this page with the ending "-CFT" designation.



Steel Shank

4:1 Ratio
Coolant Thru

Designation	D Dia.	C OAL	Min Bore	Head Bolts	Price
A1000-12	1.000	12	1.200	8-32	\$175.56
A1250-14	1.250	14	1.500	10-24	\$227.14
A1500-14	1.500	14	1.710	10-24	\$251.28
A1750-16	1.750	16	2.010	1/4-20	\$299.55
A2000-20	2.000	20	2.400	1/4-20	\$395.01
A2500-12	2.500	12	2.900	5/16-18	\$452.07
A2500-24	2.500	24	2.900	5/16-18	\$646.29
A3000-18*	3.000	18	3.525	5/16-18	\$741.74

* 3" bar takes 2.5" head

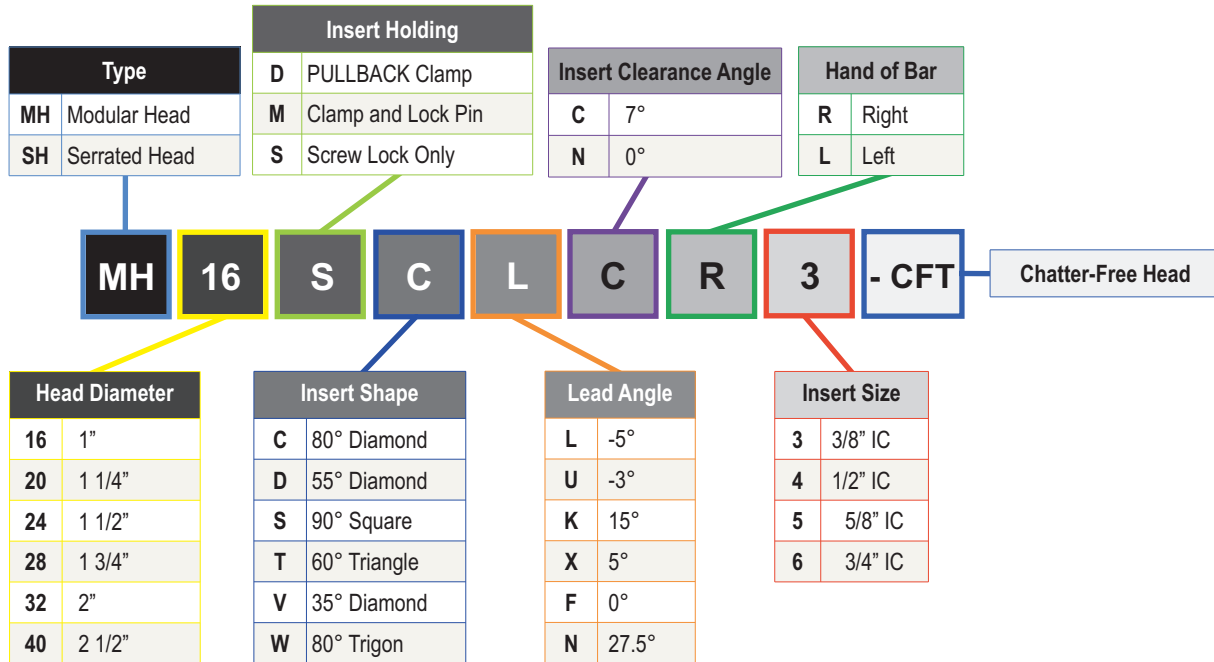
Carbide Shank

8:1 Ratio
Coolant Thru

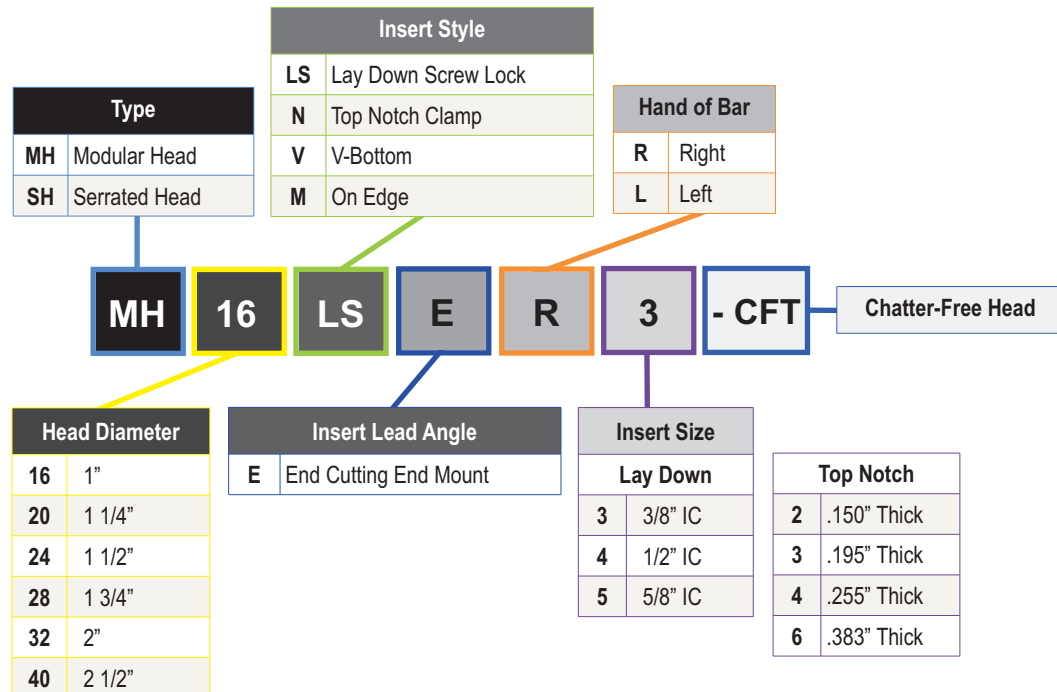
Designation	D Dia.	C OAL	Min Bore	Head Bolts	Price
E1000-12	1.000	12	1.200	8-32	\$1,024.83
E1250-14	1.250	14	1.500	10-24	\$1,787.43
E1500-14	1.500	14	1.710	10-24	\$2,115.50
E1750-16	1.750	16	2.010	1/4-20	\$3,173.25
E2000-20	2.000	20	2.400	1/4-20	\$4,701.72

Head Nomenclature

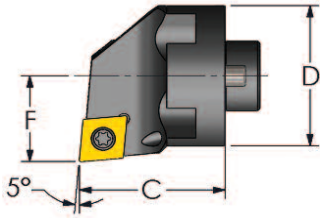
(Standard & Serrated)



Threading / Grooving



(Prices are subject to change without notice.)

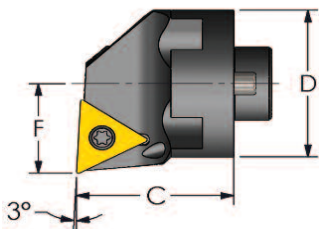


**Positive 80° Diamond
(-5° Lead)
Coolant Thru**

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 SCLCR3-CFT	1.000	.790	.625	1.200	CCMT 32.51	MTS-35	T-15	\$168.98
MH20 SCLCR3-CFT	1.250	1.250	.765	1.470		MTS-35	T-15	\$174.47
MH24 SCLCR3-CFT	1.500	1.250	.890	1.760		MTS-35	T-15	\$185.44
MH28 SCLCR3-CFT	1.750	1.250	1.015	2.030		MTS-35	T-15	\$207.39
MH24 SCLCR4-CFT	1.500	1.250	.890	1.760	CCMT 432	MTS-4	T-20	\$229.33
MH28 SCLCR4-CFT	1.750	1.250	1.015	2.030		MTS-4	T-20	\$251.28
MH32 SCLCR4-CFT	2.000	1.625	1.281	2.400		MTS-4	T-20	\$229.33
MH40 SCLCR4-CFT	2.500	1.625	1.500	2.800		MTS-4	T-20	\$251.28

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 SCLCL3-CFT	1.000	.790	.625	1.200	CCMT 32.51	MTS-35	T-15	\$179.95
MH20 SCLCL3-CFT	1.250	1.250	.765	1.470		MTS-35	T-15	\$185.44
MH24 SCLCL3-CFT	1.500	1.250	.890	1.760		MTS-35	T-15	\$196.41
MH28 SCLCL3-CFT	1.750	1.250	1.015	2.030		MTS-35	T-15	\$218.36
MH32 SCLCL4-CFT	2.000	1.625	1.281	2.400	CCMT 432	MTS-4	T-20	\$240.30
MH40 SCLCL4-CFT	2.500	1.625	1.500	2.800		MTS-4	T-20	\$262.25

Also available in: Serrated CFT pg: 27

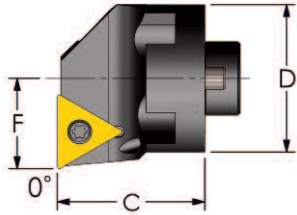


**Positive Triangle
(-3° Lead)
Coolant Thru**

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 STUCR2-CFT	1.000	.790	.625	1.200	TCMT 21.51	MTS-255	T-7	\$168.98
MH20 STUCR3-CFT	1.250	1.250	.765	1.470	TCMT 32.51	MTS-35	T-15	\$174.47
MH24 STUCR3-CFT	1.500	1.250	.890	1.760		MTS-35	T-15	\$185.44
MH28 STUCR3-CFT	1.750	1.250	1.015	2.030		MTS-35	T-15	\$207.39
MH32 STUCR3-CFT	2.000	1.625	1.281	2.400		MTS-35	T-15	\$229.33
MH40 STUCR3-CFT	2.500	1.625	1.500	2.800		MTS-35	T-15	\$251.28

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 STUCL2-CFT	1.000	.790	.625	1.200	TCMT 21.51	MTS-255	T-7	\$190.92
MH20 STUCL3-CFT	1.250	1.250	.765	1.470	TCMT 32.51	MTS-35	T-15	\$196.41
MH24 STUCL3-CFT	1.500	1.250	.890	1.760		MTS-35	T-15	\$207.39
MH28 STUCL3-CFT	1.750	1.250	1.015	2.030		MTS-35	T-15	\$229.33
MH32 STUCL3-CFT	2.000	1.625	1.281	2.400		MTS-35	T-15	\$251.28
MH40 STUCL3-CFT	2.500	1.625	1.500	2.800		MTS-35	T-15	\$273.22

Also available in: Serrated CFT pg: 27

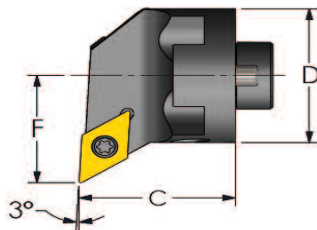


**Positive Triangle
(0° Lead)
Coolant Thru**

New!

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 STFCR2-CFT	1.000	.790	.625	1.200	TCMT 21.51	MTS-255	T-7	\$168.98
MH20 STFCR3-CFT	1.250	1.250	.765	1.470	TCMT 32.51	MTS-35	T-15	\$174.47
MH24 STFCR3-CFT	1.500	1.250	.890	1.760		MTS-35	T-15	\$185.44
MH28 STFCR3-CFT	1.750	1.250	1.015	2.030		MTS-35	T-15	\$207.39
MH32 STFCR3-CFT	2.000	1.625	1.281	2.400		MTS-35	T-15	\$229.33
MH40 STFCR3-CFT	2.500	1.625	1.500	2.800		MTS-35	T-15	\$251.28
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 STFCL2-CFT	1.000	.790	.625	1.200	TCMT 21.51	MTS-255	T-7	\$190.92
MH20 STFCL3-CFT	1.250	1.250	.765	1.470	TCMT 32.51	MTS-35	T-15	\$196.41
MH24 STFCL3-CFT	1.500	1.250	.890	1.760		MTS-35	T-15	\$207.39
MH28 STFCL3-CFT	1.750	1.250	1.015	2.030		MTS-35	T-15	\$229.33
MH32 STFCL3-CFT	2.000	1.625	1.281	2.400		MTS-35	T-15	\$251.28
MH40 STFCL3-CFT	2.500	1.625	1.500	2.800		MTS-35	T-15	\$273.22

Also available in: [Serrated CFT pg: 28](#)

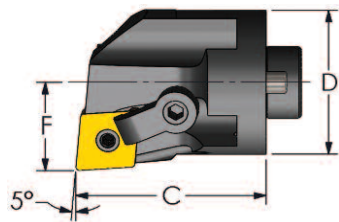


**Positive 55° Diamond
(-3° Lead) Profiling
Coolant Thru**

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 SDUCR3-CFT	1.000	.790	.750	1.300	DCMT 32.51	MTS-35	T-15	\$168.98
MH20 SDUCR3-CFT	1.250	1.250	1.000	1.675		MTS-35	T-15	\$174.47
MH24 SDUCR3-CFT	1.500	1.250	1.120	1.920		MTS-35	T-15	\$185.44
MH28 SDUCR3-CFT	1.750	1.250	1.250	2.175		MTS-35	T-15	\$207.39
MH32 SDUCR3-CFT	2.000	1.625	1.375	2.425		MTS-35	T-15	\$229.33
MH40 SDUCR3-CFT	2.500	1.625	1.500	2.800		MTS-35	T-15	\$251.28
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
MH16 SDUCL3-CFT	1.000	.790	.750	1.300	DCMT 32.51	MTS-35	T-15	\$179.95
MH20 SDUCL3-CFT	1.250	1.250	1.000	1.675		MTS-35	T-15	\$185.44
MH24 SDUCL3-CFT	1.500	1.250	1.120	1.920		MTS-35	T-15	\$196.41
MH28 SDUCL3-CFT	1.750	1.250	1.250	2.175		MTS-35	T-15	\$218.36
MH32 SDUCL3-CFT	2.000	1.625	1.375	2.425		MTS-35	T-15	\$240.30
MH40 SDUCL3-CFT	2.500	1.625	1.500	2.800		MTS-35	T-15	\$262.25

(Prices are subject to change without notice.)

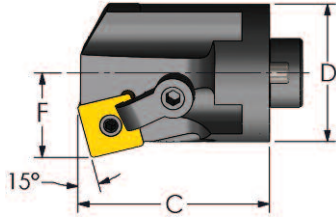
Also available in: [Serrated CFT pg: 28](#)



**Negative 80° Diamond
(-5° Lead)
Coolant Thru**

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MCLNR4-CFT	1.000	1.625	.640	1.200	CNMG 432	--	CL-20	XNS-47	NL-44	\$179.95
MH20 MCLNR4-CFT	1.250	1.625	.765	1.470		ICSN-433	CL-20	XNS-47	NL-46	\$185.44
MH24 MCLNR4-CFT	1.500	1.625	.890	1.760		ICSN-433	CL-20	XNS-47	NL-46	\$196.41
MH28 MCLNR4-CFT	1.750	1.625	1.015	2.010		ICSN-433	CL-20	XNS-47	NL-46	\$201.89
MH32 MCLNR4-CFT	2.000	1.625	1.281	2.400		ICSN-433	CL-20	XNS-47	NL-46	\$229.33
MH40 MCLNR4-CFT	2.500	1.625	1.531	2.980		ICSN-433	CL-20	XNS-47	NL-46	\$246.89
MH24 MCLNR5-CFT	1.500	1.625	.890	1.760	CNMG 543	--	CL-20	XNS-47	NL-56	\$218.36
MH32 MCLNR5-CFT	2.000	1.625	1.281	2.400		ICSN-533	CL-12	XNS-510	NL-58	\$251.28
MH40 MCLNR5-CFT	2.500	1.625	1.531	2.980		ICSN-533	CL-12	XNS-510	NL-58	\$268.83
MH32 MCLNR6-CFT	2.000	1.625	1.281	2.400	CNMG 643	ICSN-633	CL-12	XNS-59	NL-68	\$273.22
MH40 MCLNR6-CFT	2.500	1.625	1.531	3.030		ICSN-633	CL-12	XNS-59	NL-68	\$290.78

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MCLNL4-CFT	1.000	1.625	.640	1.200	CNMG 432	--	CL-20	XNS-47	NL-44	\$201.89
MH20 MCLNL4-CFT	1.250	1.625	.765	1.470		ICSN-433	CL-20	XNS-47	NL-46	\$207.39
MH24 MCLNL4-CFT	1.500	1.625	.890	1.760		ICSN-433	CL-20	XNS-47	NL-46	\$218.36
MH28 MCLNL4-CFT	1.750	1.625	1.015	2.010		ICSN-433	CL-20	XNS-47	NL-46	\$223.84
MH32 MCLNL4-CFT	2.000	1.625	1.281	2.400		ICSN-433	CL-20	XNS-47	NL-46	\$251.28
MH40 MCLNL4-CFT	2.500	1.625	1.531	2.980		ICSN-433	CL-20	XNS-47	NL-46	\$268.83
MH24 MCLNL5-CFT	1.500	1.625	.890	1.760	CNMG 543	--	CL-20	XNS-47	NL-56	\$240.30
MH32 MCLNL5-CFT	2.000	1.625	1.281	2.400		ICSN-533	CL-12	XNS-510	NL-58	\$273.22
MH40 MCLNL5-CFT	2.500	1.625	1.531	2.980		ICSN-533	CL-12	XNS-510	NL-58	\$290.78
MH32 MCLNL6-CFT	2.000	1.625	1.281	2.400	CNMG 643	ICSN-633	CL-12	XNS-59	NL-68	\$295.17
MH40 MCLNL6-CFT	2.500	1.625	1.531	3.030		ICSN-633	CL-12	XNS-59	NL-68	\$312.72



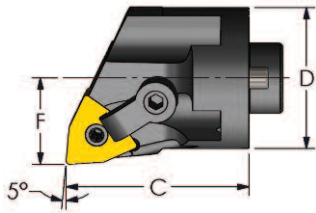
Negative Square (15° Lead) Coolant Thru

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH20 MSKNR4-CFT	1.250	1.744	.765	1.470	SNMG 432	ISSN-433	CL-20	XNS-47	NL-46	\$185.44
MH24 MSKNR4-CFT	1.500	1.744	.890	1.760		ISSN-433	CL-20	XNS-47	NL-46	\$196.41
MH28 MSKNR4-CFT	1.750	1.744	1.015	2.010		ISSN-433	CL-20	XNS-47	NL-46	\$201.89
MH32 MSKNR4-CFT	2.000	1.744	1.281	2.400		ISSN-433	CL-20	XNS-47	NL-46	\$229.33
MH40 MSKNR4-CFT	2.500	1.804	1.531	3.030		ISSN-433	CL-20	XNS-47	NL-46	\$246.89
MH32 MSKNR5-CFT	2.000	1.744	1.281	2.400	SNMG 543	ISSN-533	CL-12	XNS-510	NL-58	\$251.28
MH40 MSKNR5-CFT	2.500	1.804	1.531	3.030		ISSN-533	CL-12	XNS-510	NL-58	\$268.83
MH32 MSKNR6-CFT	2.000	1.744	1.281	2.400	SNMG 643	ISSN-633	CL-12	XNS-510	NL-68	\$273.22
MH40 MSKNR6-CFT	2.500	1.804	1.531	3.030		ISSN-633	CL-12	XNS-510	NL-68	\$290.78

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH20 MSKNL4-CFT	1.250	1.744	.765	1.470	SNMG 432	ISSN-433	CL-20	XNS-47	NL-46	\$207.39
MH24 MSKNL4-CFT	1.500	1.744	.890	1.760		ISSN-433	CL-20	XNS-47	NL-46	\$218.36
MH28 MSKNL4-CFT	1.750	1.744	1.015	2.010		ISSN-433	CL-20	XNS-47	NL-46	\$223.84
MH32 MSKNL4-CFT	2.000	1.744	1.281	2.400		ISSN-433	CL-20	XNS-47	NL-46	\$251.28
MH40 MSKNL4-CFT	2.500	1.804	1.531	3.030		ISSN-433	CL-20	XNS-47	NL-46	\$268.83
MH32 MSKNL5-CFT	2.000	1.744	1.281	2.400	SNMG 543	ISSN-533	CL-12	XNS-510	NL-58	\$273.22
MH40 MSKNL5-CFT	2.500	1.804	1.531	3.030		ISSN-533	CL-12	XNS-510	NL-58	\$290.78
MH32 MSKNL6-CFT	2.000	1.744	1.281	2.400	SNMG 643	ISSN-633	CL-12	XNS-510	NL-68	\$295.17
MH40 MSKNL6-CFT	2.500	1.804	1.531	3.030		ISSN-633	CL-12	XNS-510	NL-68	\$312.72



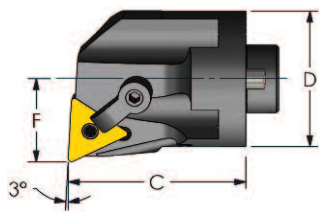
(Prices are subject to change without notice.)



Negative Trigon (-5° Lead) Coolant Thru

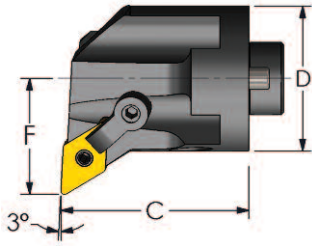
Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MWLNR4-CFT	1.000	1.625	.640	1.200	WNMG 432	--	CL-20	XNS-47	NL-44	\$179.95
MH20 MWLNR4-CFT	1.250	1.625	.765	1.470		IWSN-433	CL-20	XNS-47	NL-46	\$185.44
MH24 MWLNR4-CFT	1.500	1.625	.890	1.760		IWSN-433	CL-20	XNS-47	NL-46	\$196.41
MH28 MWLNR4-CFT	1.750	1.625	1.015	2.010		IWSN-433	CL-20	XNS-47	NL-46	\$201.89
MH32 MWLNR4-CFT	2.000	1.625	1.281	2.400		IWSN-433	CL-20	XNS-47	NL-46	\$229.33
MH40 MWLNR4-CFT	2.500	1.625	1.500	2.980		IWSN-433	CL-20	XNS-47	NL-46	\$246.89

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MWLNL4-CFT	1.000	1.625	.640	1.200	WNMG 432	--	CL-20	XNS-47	NL-44	\$201.89
MH20 MWLNL4-CFT	1.250	1.625	.765	1.470		IWSN-433	CL-20	XNS-47	NL-46	\$207.39
MH24 MWLNL4-CFT	1.500	1.625	.890	1.760		IWSN-433	CL-20	XNS-47	NL-46	\$218.36
MH28 MWLNL4-CFT	1.750	1.625	1.015	2.010		IWSN-433	CL-20	XNS-47	NL-46	\$223.84
MH32 MWLNL4-CFT	2.000	1.625	1.281	2.400		IWSN-433	CL-20	XNS-47	NL-46	\$251.28
MH40 MWLNL4-CFT	2.500	1.625	1.500	2.980		IWSN-433	CL-20	XNS-47	NL-46	\$268.83



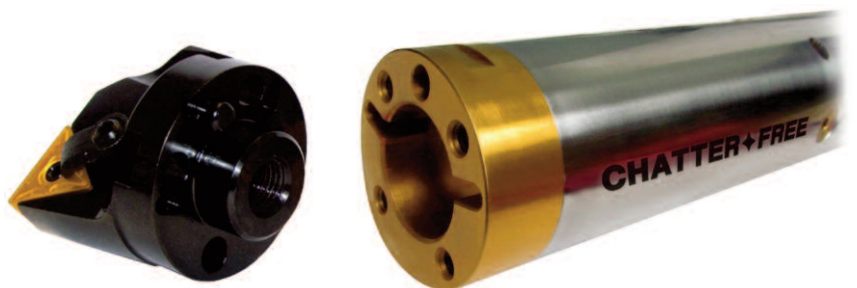
Negative Triangle (-3° Lead) Coolant Thru

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MTUNR3-CFT	1.000	1.625	.640	1.200	TNMG 332	--	CL-7	XNS-36	NL-33L	\$179.95
MH20 MTUNR3-CFT	1.250	1.625	.765	1.470		ITSN-323	CL-7	XNS-36	NL-34L	\$185.44
MH24 MTUNR4-CFT	1.500	1.625	.890	1.760	TNMG 432	ITSN-433	CL-20	XNS-47	NL-46	\$196.41
MH28 MTUNR4-CFT	1.750	1.625	1.015	2.010		ITSN-433	CL-20	XNS-47	NL-46	\$201.89
MH32 MTUNR4-CFT	2.000	1.625	1.281	2.400		ITSN-433	CL-20	XNS-47	NL-46	\$229.33
MH40 MTUNR4-CFT	2.500	1.625	1.531	2.900		ITSN-433	CL-20	XNS-47	NL-46	\$246.89

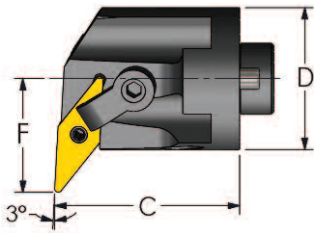


Negative 55° Diamond (-3° Lead) Coolant Thru

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MDUNR3-CFT	1.000	1.625	.750	1.300	DNMG 332	--	CL-7	XNS-36	NL-33L	\$179.95
MH20 MDUNR3-CFT	1.250	1.625	1.000	1.705		IDSN-322	CL-7	XNS-36	NL-34L	\$185.44
MH24 MDUNR3-CFT	1.500	1.625	1.125	2.000		IDSN-322	CL-7	XNS-36	NL-34L	\$196.41
MH28 MDUNR3-CFT	1.750	1.625	1.250	2.250		IDSN-322	CL-7	XNS-36	NL-34L	\$218.36
MH32 MDUNR3-CFT	2.000	1.625	1.375	2.500		IDSN-322	CL-7	XNS-36	NL-34L	\$240.30
MH40 MDUNR3-CFT	2.500	1.625	1.500	2.950		IDSN-322	CL-7	XNS-36	NL-34L	\$262.25
MH20 MDUNR4-CFT	1.250	1.625	1.000	1.705	DNMG 432	IDSN-433	CL-20	XNS-48	NL-46	\$185.44
MH24 MDUNR4-CFT	1.500	1.625	1.125	2.000		IDSN-433	CL-22	XNS-48	NL-46	\$196.41
MH28 MDUNR4-CFT	1.750	1.625	1.250	2.250		IDSN-433	CL-22	XNS-48	NL-46	\$218.36
MH32 MDUNR4-CFT	2.000	1.625	1.375	2.500		IDSN-433	CL-22	XNS-48	NL-46	\$240.30
MH40 MDUNR4-CFT	2.500	1.625	1.500	2.950		IDSN-433	CL-22	XNS-48	NL-46	\$262.25
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MDUNL3-CFT	1.000	1.625	.750	1.300	DNMG 332	--	CL-7	XNS-36	NL-33L	\$201.89
MH20 MDUNL3-CFT	1.250	1.625	1.000	1.705		IDSN-322	CL-7	XNS-36	NL-34L	\$207.39
MH24 MDUNL3-CFT	1.500	1.625	1.125	2.000		IDSN-322	CL-7	XNS-36	NL-34L	\$218.36
MH28 MDUNL3-CFT	1.750	1.625	1.250	2.250		IDSN-322	CL-7	XNS-36	NL-34L	\$240.30
MH32 MDUNL3-CFT	2.000	1.625	1.375	2.500		IDSN-322	CL-7	XNS-36	NL-34L	\$262.25
MH40 MDUNL3-CFT	2.500	1.625	1.500	2.950		IDSN-322	CL-7	XNS-36	NL-34L	\$284.19
MH20 MDUNL4-CFT	1.250	1.625	1.000	1.705	DNMG 432	IDSN-433	CL-20	XNS-48	NL-46	\$207.39
MH24 MDUNL4-CFT	1.500	1.625	1.125	2.000		IDSN-433	CL-22	XNS-48	NL-46	\$218.39
MH28 MDUNL4-CFT	1.750	1.625	1.250	2.250		IDSN-433	CL-22	XNS-48	NL-46	\$240.30
MH32 MDUNL4-CFT	2.000	1.625	1.375	2.500		IDSN-433	CL-22	XNS-48	NL-46	\$262.25
MH40 MDUNL4-CFT	2.500	1.625	1.500	2.950		IDSN-433	CL-22	XNS-48	NL-46	\$284.19



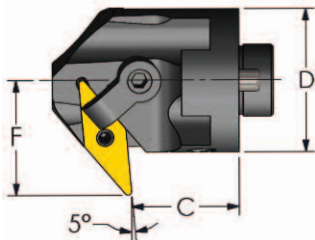
(Prices are subject to change without notice.)



**Negative 35° Diamond
(-3° Lead)
Coolant Thru**

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MVUNR3-CFT	1.000	1.625	.875	1.435	VNMG 332	IVSN-322	CL-20	XNS-47	NL-34L	\$179.95
MH20 MVUNR3-CFT	1.250	1.625	1.000	1.705		IVSN-322	CL-20	XNS-47	NL-34L	\$185.44
MH24 MVUNR3-CFT	1.500	1.625	1.125	2.000		IVSN-322	CL-20	XNS-47	NL-34L	\$196.41
MH28 MVUNR3-CFT	1.750	1.625	1.250	2.250		IVSN-322	CL-20	XNS-47	NL-34L	\$218.36
MH32 MVUNR3-CFT	2.000	1.625	1.375	2.500		IVSN-322	CL-20	XNS-47	NL-34L	\$240.30
MH40 MVUNR3-CFT	2.500	1.625	1.750	3.250		IVSN-322	CL-20	XNS-47	NL-34L	\$262.25
MH40 MVUNR4-CFT	2.500	1.625	1.750	3.250	VNMG 432	IVSN-432	CL-22	XNS-48	NL-46	\$262.25

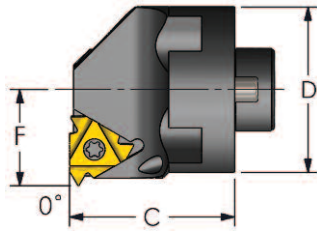
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MVUNL3-CFT	1.000	1.625	.875	1.435	VNMG 332	IVSN-322	CL-20	XNS-47	NL-34L	\$201.89
MH20 MVUNL3-CFT	1.250	1.625	1.000	1.705		IVSN-322	CL-20	XNS-47	NL-34L	\$207.39
MH24 MVUNL3-CFT	1.500	1.625	1.125	2.000		IVSN-322	CL-20	XNS-47	NL-34L	\$218.36
MH28 MVUNL3-CFT	1.750	1.625	1.250	2.250		IVSN-322	CL-20	XNS-47	NL-34L	\$240.30
MH32 MVUNL3-CFT	2.000	1.625	1.375	2.500		IVSN-322	CL-20	XNS-47	NL-34L	\$262.25
MH40 MVUNL3-CFT	2.500	1.625	1.750	3.250		IVSN-322	CL-20	XNS-47	NL-34L	\$284.19
MH40 MVUNL4-CFT	2.500	1.625	1.750	3.250	VNMG 432	IVSN-432	CL-22	XNS-48	NL-46	\$284.19



**Negative 35° Diamond
(5° Lead) Back Facing
Coolant Thru**

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MVXNR3-CFT	1.000	.940	.875	1.435	VNMG 332	IVSN-322	CL-20	XNS-47	NL-34L	\$190.92
MH20 MVXNR3-CFT	1.250	1.000	1.000	1.705		IVSN-322	CL-20	XNS-47	NL-34L	\$196.41
MH24 MVXNR3-CFT	1.500	1.120	1.125	2.000		IVSN-322	CL-20	XNS-47	NL-34L	\$207.39
MH28 MVXNR3-CFT	1.750	1.120	1.250	2.250		IVSN-322	CL-20	XNS-47	NL-34L	\$212.87
MH32 MVXNR3-CFT	2.000	1.120	1.375	2.500		IVSN-322	CL-20	XNS-47	NL-34L	\$240.30
MH40 MVXNR3-CFT	2.500	1.120	1.750	3.250		IVSN-322	CL-20	XNS-47	NL-34L	\$262.25

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Shim	Clamp	Clamp Screw	Lock Pin	Price
MH16 MVXNL3-CFT	1.000	.940	.875	1.435	VNMG 332	IVSN-322	CL-20	XNS-47	NL-34L	\$212.87
MH20 MVXNL3-CFT	1.250	1.000	1.000	1.705		IVSN-322	CL-20	XNS-47	NL-34L	\$218.87
MH24 MVXNL3-CFT	1.500	1.120	1.125	2.000		IVSN-322	CL-20	XNS-47	NL-34L	\$229.33
MH28 MVXNL3-CFT	1.750	1.120	1.250	2.250		IVSN-322	CL-20	XNS-47	NL-34L	\$234.81
MH32 MVXNL3-CFT	2.000	1.120	1.375	2.500		IVSN-322	CL-20	XNS-47	NL-34L	\$262.25
MH40 MVXNL3-CFT	2.500	1.120	1.750	3.250		IVSN-322	CL-20	XNS-47	NL-34L	\$284.19

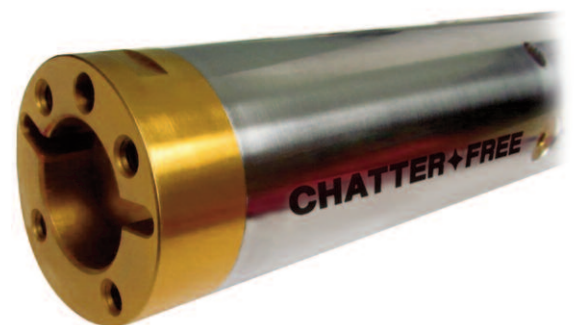


Threading / Grooving Laydown Coolant Thru

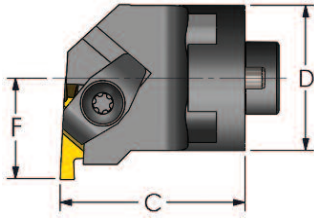
Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Anvil Screw	Anvil	Price
MH16 LSER3-CFT	1.000	1.625	.650	1.200	3IR	SA3T	SY3T	YI3	\$190.92
MH20 LSER3-CFT	1.250	1.625	.770	1.450		SA3T	SY3T	YI3	\$196.41
MH24 LSER3-CFT	1.500	1.625	.900	1.650		SA3T	SY3T	YI3	\$206.28
MH28 LSER3-CFT	1.750	1.625	1.090	2.020		SA3T	SY3T	YI3	\$221.64
MH32 LSER3-CFT	2.000	1.625	1.281	2.400		SA3T	SY3T	YI3	\$245.78
MH24 LSER4-CFT	1.500	1.625	.978	1.782	4IR	SA4T	SY4T	YI4	\$206.28
MH28 LSER4-CFT	1.750	1.625	1.090	2.020		SA4T	SY4T	YI4	\$221.64
MH32 LSER4-CFT	2.000	1.625	1.281	2.400		SA4T	SY4T	YI4	\$245.78
MH32 LSER5-CFT	2.000	1.625	1.281	2.400	5IR	SA5T	SY5T	YI5	\$245.78
MH40 LSER5-CFT	2.500	1.625	1.530	2.800		SA5T	SY5T	YI5	\$267.73

Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Insert Screw	Anvil Screw	Anvil	Price
MH16 LSEL3-CFT	1.000	1.625	.650	1.200	3IL	SA3T	SY3T	YE3	\$212.87
MH20 LSEL3-CFT	1.250	1.625	.770	1.450		SA3T	SY3T	YE3	\$218.36
MH24 LSEL3-CFT	1.500	1.625	.900	1.650		SA3T	SY3T	YE3	\$228.23
MH28 LSEL3-CFT	1.750	1.625	1.090	2.020		SA3T	SY3T	YE3	\$243.59
MH32 LSEL3-CFT	2.000	1.625	1.281	2.400		SA3T	SY3T	YE3	\$267.73
MH24 LSEL4-CFT	1.500	1.625	.978	1.782	4IL	SA4T	SY4T	YE4	\$228.23
MH28 LSEL4-CFT	1.750	1.625	1.090	2.020		SA4T	SY4T	YE4	\$243.59
MH32 LSEL4-CFT	2.000	1.625	1.281	2.400		SA4T	SY4T	YE4	\$267.73
MH32 LSEL5-CFT	2.000	1.625	1.281	2.400	5IL	SA5T	SY5T	YE5	\$267.73
MH40 LSEL5-CFT	2.500	1.625	1.530	2.800		SA5T	SY5T	YE5	\$289.67

Also available in: Serrated CFT pg: 32



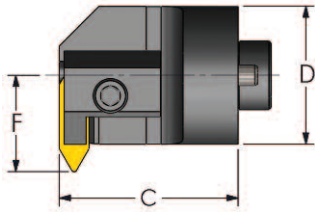
(Prices are subject to change without notice.)



Threading / Grooving Top Notch Coolant Thru

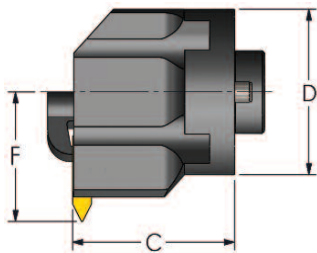
Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Clamp	Screw	Price
MH20 NER3-CFT	1.250	1.625	.875	1.750	NG 3L	CM-73	10-32	\$185.44
MH24 NER3-CFT	1.500	1.625	1.000	2.000		CM-73	10-32	\$195.31
MH28 NER3-CFT	1.750	1.625	1.125	2.250		CM-73	10-32	\$210.67
MH32 NER3-CFT	2.000	1.625	1.250	2.410		CM-73	10-32	\$234.81
MH28 NER4-CFT	1.750	1.625	1.250	2.500	NG 4L	CM-73	10-32	\$210.67
MH32 NER4-CFT	2.000	1.625	1.375	2.750		CM-73	10-32	\$234.81
MH40 NER4-CFT	2.500	1.625	1.625	3.250		CM-73	10-32	\$251.28
MH28 NER6-CFT	1.750	1.625	1.250	2.500	NG 6L	CM-121	10-32	\$210.67
MH32 NER6-CFT	2.000	1.625	1.375	2.750		CM-121	10-32	\$234.81
MH40 NER6-CFT	2.500	1.625	1.625	3.250		CM-121	10-32	\$251.28
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Clamp	Screw	Price
MH20 NEL3-CFT	1.250	1.625	.875	1.750	NG 3R	CM-72	10-32	\$207.39
MH24 NEL3-CFT	1.500	1.625	1.000	2.000		CM-72	10-32	\$217.26
MH28 NEL3-CFT	1.750	1.625	1.125	2.250		CM-72	10-32	\$232.62
MH32 NEL3-CFT	2.000	1.625	1.250	2.410		CM-72	10-32	\$256.76
MH28 NEL4-CFT	1.750	1.625	1.250	2.500	NG 4R	CM-72	10-32	\$232.62
MH32 NEL4-CFT	2.000	1.625	1.375	2.750		CM-72	10-32	\$256.76
MH40 NEL4-CFT	2.500	1.625	1.625	3.250		CM-72	10-32	\$273.22
MH28 NEL6-CFT	1.750	1.625	1.250	2.500	NG 6R	CM-120	10-32	\$232.62
MH32 NEL6-CFT	2.000	1.625	1.375	2.750		CM-120	10-32	\$256.76
MH40 NEL6-CFT	2.500	1.625	1.625	3.250		CM-120	10-32	\$273.22

Also available in: Serrated CFT pg: 32



Threading / Grooving V-Bottom Coolant Thru

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Clamp	Screw	Price
MH16 VE84R-CFT	1.000	1.625	.687	1.187	VE84 / VE85	CL-85	MTS 526	\$223.84
MH20 VE84R-CFT	1.250	1.625	.875	1.187		CL-85	MTS 526	\$229.33
MH24 VE84R-CFT	1.500	1.625	1.000	1.750		CL-85	MTS 526	\$240.30
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Clamp	Screw	Price
MH16 VE84L-CFT	1.000	1.625	.687	1.187	VE84 / VE85	CL-84	MTS 526	\$249.08
MH20 VE84L-CFT	1.250	1.625	.875	1.187		CL-84	MTS 526	\$256.76
MH24 VE84L-CFT	1.500	1.625	1.000	1.750		CL-84	MTS 526	\$266.64



Threading / Grooving On Edge Coolant Thru

Designation Right Hand	D Dia.	C OAL	F	Min Bore	Insert	Clamp	Screw	Pin	Price
MH24 MTHOR4-CFT	1.500	1.625	1.173	2.625	TNMA 43	CL-7	XNS-36	NL-44	\$195.31
MH28 MTHOR4-CFT	1.750	1.625	1.298	2.875		CL-7	XNS-36	NL-44	\$210.67
MH32 MTHOR4-CFT	2.000	1.625	1.423	2.875		CL-7	XNS-36	NL-44	\$234.81
Designation Left Hand	D Dia.	C OAL	F	Min Bore	Insert	Clamp	Screw	Pin	Price
MH24 MTHOL4-CFT	1.500	1.625	1.173	2.625	TNMA 43	CL-7	XNS-36	NL-44	\$217.26
MH28 MTHOL4-CFT	1.750	1.625	1.298	2.875		CL-7	XNS-36	NL-44	\$232.62
MH32 MTHOL4-CFT	2.000	1.625	1.423	2.875		CL-7	XNS-36	NL-44	\$256.76



(Prices are subject to change without notice.)

Ultra-Dex	Kennametal®
MH16 SCLCR3-CFT	H16 SCLCR3
MH16 SCLCL3-CFT	H16 SCLCL3
MH16 MCLNR4-CFT	H16 MCLNR4
MH20 MCLNR4-CFT	H20 MCLNR4
MH24 MCLNR4-CFT	H24 MCLNR4
MH28 MCLNR4-CFT	H28 MCLNR4
MH32 MCLNR4-CFT	H32 MCLNR4
MH40 MCLNR4-CFT	H40 MCLNR4
MH24 MCLNR5-CFT	H24 MCLNR5
MH32 MCLNR5-CFT	H32 MCLNR5
MH40 MCLNR5-CFT	H40 MCLNR5
MH32 MCLNR6-CFT	H32 MCLNR6
MH40 MCLNR6-CFT	H40 MCLNR6
MH16 MCLNL4-CFT	H16 MCLNL4
MH20 MCLNL4-CFT	H20 MCLNL4
MH24 MCLNL4-CFT	H24 MCLNL4
MH28 MCLNL4-CFT	H28 MCLNL4
MH32 MCLNL4-CFT	H32 MCLNL4
MH40 MCLNL4-CFT	H40 MCLNL4
MH24 MCLNL5-CFT	H24 MCLNL5
MH32 MCLNL5-CFT	H32 MCLNL5
MH40 MCLNL5-CFT	H40 MCLNL5
MH32 MCLNL6-CFT	H32 MCLNL6
MH40 MCLNL6-CFT	H40 MCLNL6
MH24 MSKNR4-CFT	H24 MSKNR4
MH28 MSKNR4-CFT	H28 MSKNR4
MH32 MSKNR4-CFT	H32 MSKNR4
MH40 MSKNR6-CFT	H40 MSKNR6
MH20 MSKNL4-CFT	H20 MSKNL4
MH24 MSKNL4-CFT	H24 MSKNL4
MH40 MSKNL6-CFT	H40 MSKNL6
MH20 MWLNR4-CFT	H20 MWLNR4
MH24 MWLNR4-CFT	H24 MWLNR4
MH28 MWLNR4-CFT	H28 MWLNR4
MH32 MWLNR4-CFT	H32 MWLNR4
MH20 MWLNL4-CFT	H20 MWLNL4
MH24 MWLNL4-CFT	H24 MWLNL4
MH28 MWLNL4-CFT	H28 MWLNL4
MH32 MWLNL4-CFT	H32 MWLNL4
MH16 MDUNR3-CFT	H16 MDUNR3
MH24 MDUNR3-CFT	H24 MDUNR3
MH32 MDUNR3-CFT	H32 MDUNR3
MH20 MDUNR4-CFT	H20 MDUNR4
MH24 MDUNR4-CFT	H24 MDUNR4
MH28 MDUNR4-CFT	H28 MDUNR4
MH32 MDUNR4-CFT	H32 MDUNR4
MH40 MDUNR4-CFT	H40 MDUNR4
MH16 MDUNL3-CFT	H16 MDUNL3
MH24 MDUNL3-CFT	H24 MDUNL3
MH32 MDUNL3-CFT	H32 MDUNL3
MH20 MDUNL4-CFT	H20 MDUNL4
MH24 MDUNL4-CFT	H24 MDUNL4
MH28 MDUNL4-CFT	H28 MDUNL4
MH32 MDUNL4-CFT	H32 MDUNL4
MH40 MDUNL4-CFT	H40 MDUNL4

Ultra-Dex	Kennametal®
MH20 MVUNR3-CFT	H20 MVUNR3
MH24 MVUNR3-CFT	H34 MVUNR3
MH32 MVUNR3-CFT	H32 MVUNR3
MH40 MVUNR3-CFT	H40 MVUNR3
MH20 MVUNL3-CFT	H20 MVUNL3
MH24 MVUNL3-CFT	H24 MVUNL3
MH32 MVUNL3-CFT	H32 MVUNL3
MH40 MVUNL3-CFT	H40 MVUNL3
MH40 MVUNR4-CFT	H40 MVUNR4
MH40 MVUNL4-CFT	H40 MVUNL4
MH16 LSER3-CFT	H16 LSER3
MH20 LSER3-CFT	H20 LSER3
MH24 LSER3-CFT	H24 LSER3
MH32 LSER3-CFT	H32 LSER3
MH24 LSER4-CFT	H24 LSER4
MH32 LSER4-CFT	H32 LSER4
MH32 LSER5-CFT	H32 LSER5
MH40 LSER5-CFT	H40 LSER5
MH16 LSEL3-CFT	H16 LSEL3
MH20 LSEL3-CFT	H20 LSEL3
MH24 LSEL3-CFT	H24 LSEL3
MH24 LSEL4-CFT	H24 LSEL4
MH32 LSEL4-CFT	H32 LSEL4
MH32 LSEL5-CFT	H32 LSEL5
MH40 LSEL5-CFT	H40 LSEL5
MH20 NER3-CFT	H20 NER3W
MH24 NER3-CFT	H24 NER3W
MH28 NER3-CFT	H28 NER3W
MH32 NER3-CFT	H32 NER3W
MH28 NER4-CFT	H28 NER4W
MH32 NER4-CFT	H32 NER4W
MH40 NER4-CFT	H40 NER4W
MH28 NER6-CFT	H28 NER6W
MH32 NER6-CFT	H32 NER6W
MH40 NER6-CFT	H40 NER6W
MH20 NEL3-CFT	H20 NEL3W
MH24 NEL3-CFT	H24 NEL3W
MH28 NEL3-CFT	H28 NEL3W
MH32 NEL3-CFT	H32 NEL3W
MH28 NEL4-CFT	H28 NEL4W
MH32 NEL4-CFT	H32 NEL4W
MH40 NEL4-CFT	H40 NEL4W
MH28 NEL6-CFT	H28 NEL6W
MH32 NEL6-CFT	H32 NEL6W
MH40 NEL6-CFT	H40 NEL6W



Crossover Charts

Ultra-Dex	Sandvik®
SH16 SCLCR3	570-SCLCR-25-09
SH20 SCLCR3	570-SCLCR-32-10
SH24 SCLCL4	570-SCLCR-40-12
SH16 SCLCL3	570-SCLCL-25-09
SH20 SCLCL3	570-SCLCL-32-10
SH24 SCLCR4	570-SCLCL-40-12
SH20 STFCR3	570-STFCR-32-16
SH24 STFCR3	570-STFCR-40-16
SH20 STFCL3	570-STFCL-32-16
SH24 STFCL3	570-STFCL-40-16
SH16 SDUCR3	570-SDUCR-25-11
SH20 SDUCR3	570-SDUCR-32-11
SH24 SDUCR3	570-SDUCR-40-11
SH16 SDUCL3	570-SDUCL-25-11
SH20 SDUCL3	570-SDUCL-32-11
SH24 SDUCL3	570-SDUCL-40-11
SH16 SDNCR2	570-SDXCR-25-07-D
SH20 SDNCR3	570-SDXCR-32-11
SH24 SDNCR3	570-SDXCR-40-11
SH16 SDNCL2	570-SDXCL-25-07-D
SH20 SDNCL3	570-SDXCL-32-11
SH24 SDNCL3	570-SDXCL-40-11

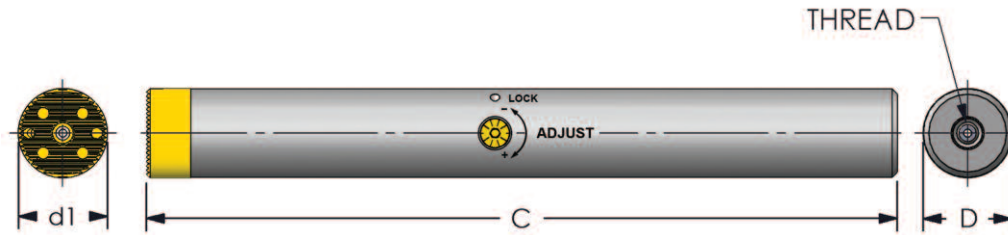
Ultra-Dex	Sandvik®
SH16 SDXCR2	570-SDUCR-25-07-DX
SH20 SDXCR3	570-SDUCR-32-11X
SH24 SDXCR3	570-SDUCR-40-11X
SH16 SDXCL2	570-SDUCL-25-07-DX
SH20 SDXCL3	570-SDUCL-32-11X
SH24 SDXCL3	570-SDUCL-40-11X
SH20 DCLNR4	570-DCLNR-32-12-L
SH24 DCLNR4	570-DCLNR-40-12-L
SH20 DCLNL4	570-DCLNL-32-12-L
SH24 DCLNL4	570-DCLNL-40-12-L
SH20 DDUNR3	570-DDUNR-32-11
SH20 DDUNL3	570-DDUNL-32-11
SH20 DTFNR3	570-DTFNR-32-16-L
SH24 DTFNR3	570-DTFNR-40-16-L
SH20 DTFNL3	570-DTFNL-32-16-L
SH24 DTFNL3	570-DTFNL-40-16-L
SH20 DWLNR4	570-DWLNR-32-08-LE
SH24 DWLNR4	570-DWLNR-40-08-L
SH20 DWLNL4	570-DWLNL-32-08-LE
SH24 DWLNL4	570-DWLNL-40-08-L

SAME DAY SHIPPING!

On orders placed before 3:30pm EST

SEE PAGE 33 for more details...



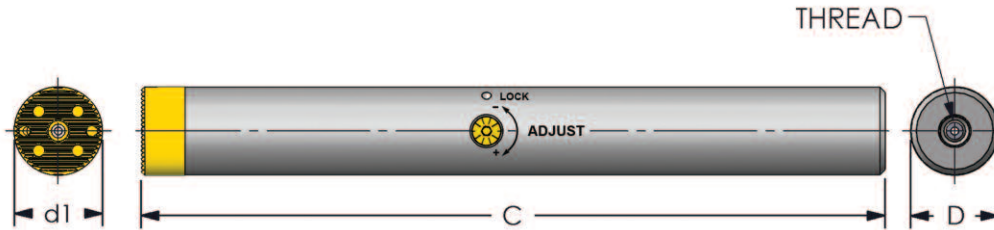


Serrated Bars (English)

Coolant Thru

Designation	D Dia.	d1 (Coupling)	C OAL	Min Bore	Head Bolts	Thread	Price
5:1 Ratio							
SCFT B1500-9	1.500	32mm	9	1.968	10-24 HB	1/8-27 NPT	\$1,157.60
SCFT B2000-12	2.000	40mm	12	2.400	1/4-20 HB	1/8-27 NPT	\$1,406.67
SCFT B2500-16	2.500	40mm	16	2.800	1/4-20 HB	1/8-27 NPT	\$1,913.60
7:1 Ratio							
SCFT B1000-10	1.000	25mm	10	1.260	8-32 HB	1/8-27 NPT	\$888.77
SCFT B1250-12	1.250	32mm	12	1.575	10-24 HB	1/8-27 NPT	\$993.02
SCFT B1500-15	1.500	32mm	15	1.968	10-24 HB	1/8-27 NPT	\$1,157.60
SCFT B1750-18	1.750	40mm	18	2.010	1/4-20 HB	1/8-27 NPT	\$1,327.67
SCFT B2000-20	2.000	40mm	20	2.400	1/4-20 HB	1/8-27 NPT	\$1,406.67
SCFT B2500-27	2.500	40mm	27	2.800	1/4-20 HB	1/4-18 NPT	\$1,913.60
10:1 Ratio							
SCFT B1000-14	1.000	25mm	14	1.260	8-32 HB	1/8-27 NPT	\$1,783.04
SCFT B1250-16	1.250	32mm	16	1.575	10-24 HB	1/8-27 NPT	\$1,992.61
SCFT B1500-19	1.500	32mm	19	1.968	10-24 HB	1/8-27 NPT	\$2,095.75
SCFT B1750-23	1.750	40mm	23	2.010	1/4-20 HB	1/8-27 NPT	\$2,484.17
SCFT B2000-26	2.000	40mm	26	2.400	1/4-20 HB	1/8-27 NPT	\$2,720.09
SCFT B2500-33	2.500	40mm	33	2.800	1/4-20 HB	1/4-18 NPT	\$3,419.03
12:1 Ratio							
SCFT B1000-16	1.000	25mm	16	1.260	8-32 HB	--	\$4,004.96
SCFT B1250-18	1.250	32mm	18	1.575	10-24 HB	--	\$4,959.57
SCFT B1500-22	1.500	32mm	22	1.968	10-24 HB	--	\$6,111.68
SCFT B1750-25	1.750	40mm	25	2.010	1/4-20 HB	--	\$7,472.27
SCFT B2000-29	2.000	40mm	29	2.400	1/4-20 HB	--	\$9,372.71
14:1 Ratio							
SCFT B1000-18	1.000	25mm	18	1.260	8-32 HB	--	\$7,809.13
SCFT B1250-21	1.250	32mm	21	1.575	10-24 HB	--	\$9,304.68
SCFT B1500-25	1.500	32mm	25	1.968	10-24 HB	--	\$10,802.43
SCFT B1750-29	1.750	40mm	29	2.010	1/4-20 HB	--	\$12,567.90
SCFT B2000-33	2.000	40mm	33	2.400	1/4-20 HB	--	\$16,101.05

Chatter-Free Modular Bars (Serrated Connection)



Serrated Bars (Metric)

Coolant Thru

Designation	D Dia.	d1 (Coupling)	C OAL	Min Bore	Head Bolts	Thread	Price
7:1 Ratio							
SCFT B25MM-250	25mm	25mm	250mm	1.260	8-32 HB	1/8-27 NPT	\$888.77
SCFT B32MM-320	32mm	32mm	320mm	1.575	10-24 HB	1/8-27 NPT	\$993.02
SCFT B40MM-400	40mm	40mm	400mm	1.968	1/4-20 HB	1/8-27 NPT	\$1,157.60
SCFT B50MM-500	50mm	40mm	500mm	2.400	1/4-20 HB	1/8-27 NPT	\$1,406.67
SCFT B60MM-600	60mm	40mm	600mm	2.830	1/4-20 HB	1/8-27 NPT	\$1,913.60
10:1 Ratio							
SCFT B25MM-325	25mm	25mm	325mm	1.260	8-32 HB	1/8-27 NPT	\$1,783.04
SCFT B32MM-416	32mm	32mm	416mm	1.575	10-24 HB	1/8-27 NPT	\$1,992.61
SCFT B40MM-520	40mm	40mm	520mm	1.968	1/4-20 HB	1/8-27 NPT	\$2,095.75
SCFT B50MM-650	50mm	40mm	650mm	2.400	1/4-20 HB	1/8-27 NPT	\$2,720.09
SCFT B60MM-780	60mm	40mm	780mm	2.830	1/4-20 HB	1/8-27 NPT	\$3,419.03
12:1 Ratio							
SCFT B32MM-480	32mm	32mm	480mm	1.260	10-24 HB	--	\$4,959.57
SCFT B40MM-600	40mm	40mm	600mm	1.575	1/4-20 HB	--	\$6,111.68
SCFT B50MM-750	50mm	40mm	750mm	1.968	1/4-20 HB	--	\$9,372.71
14:1 Ratio							
SCFT B32MM-544	32mm	32mm	544mm	1.260	10-24 HB	--	\$9,304.68
SCFT B40MM-680	40mm	40mm	680mm	1.575	1/4-20 HB	--	\$10,802.43
SCFT B50MM-850	50mm	40mm	850mm	1.968	1/4-20 HB	--	\$16,101.05

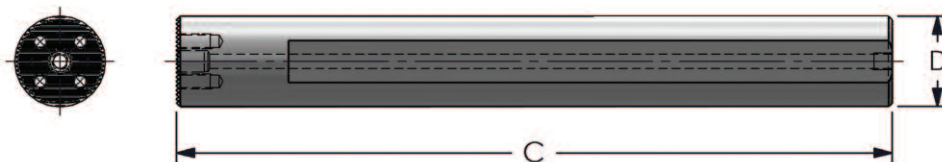
(Prices are subject to change without notice.)



Modular Bars

(Serrated Connection)

In addition to our Chatter-Free bars, we offer a solid carbide or steel alternative with the same connection! These solid bars fit all heads following this page with the beginning "SH" designation.



Steel Shank

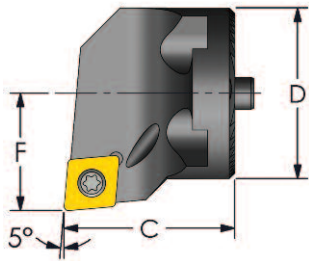
4:1 Ratio
Coolant Thru

Designation	D Dia.	d1 (Coupling) mm	C OAL	Min Bore	Head Bolts	Price
AS1000-12	1.000	25mm	12	1.260	8-32	\$351.12
AS1250-14	1.250	32mm	14	1.575	10-24	\$442.20
AS1500-14	1.500	32mm	14	1.968	10-24	\$539.85
AS1750-16	1.750	40mm	16	2.010	1/4-20	\$599.10
AS2000-20	2.000	40mm	20	2.400	1/4-20	\$790.02
AS2500-12	2.500	40mm	12	2.800	1/4-20	\$904.13
AS2500-24	2.500	40mm	24	2.800	1/4-20	\$1,292.56

Carbide Shank

8:1 Ratio
Coolant Thru

Designation	D Dia.	d1 (Coupling) mm	C OAL	Min Bore	Head Bolts	Price
ES1000-12	1.000	25mm	12	1.260	8-32	\$1,200.39
ES1250-14	1.250	32mm	14	1.575	10-24	\$2,014.55
ES1500-14	1.500	32mm	14	1.968	10-24	\$2,366.77
ES1750-16	1.750	40mm	16	2.010	1/4-20	\$3,472.80
ES2000-20	2.000	40mm	20	2.400	1/4-20	\$5,096.73

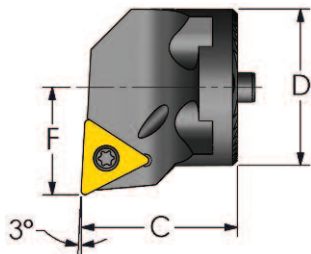


Positive 80° Diamond (-5° Lead) Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SCLCR3	.984	25mm	.787	.669	1.260	CCMT 32.52	MTS-35	T-15	\$211.77
SH20 SCLCR3	1.260	32mm	1.260	.866	1.575		MTS-35	T-15	\$217.26
SH24 SCLCR4	1.575	40mm	1.496	1.063	1.968	CCMT 432	MTS-4	T-20	\$231.53

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SCLCL3	.984	25mm	.787	.669	1.260	CCMT 32.52	MTS-35	T-15	\$211.77
SH20 SCLCL3	1.260	32mm	1.260	.866	1.575		MTS-35	T-15	\$217.26
SH24 SCLCL4	1.575	40mm	1.496	1.063	1.968	CCMT 432	MTS-4	T-20	\$231.53

Also available in: [Standard CFT pg: 12](#)



Positive Triangle (-3° Lead) Coolant Thru

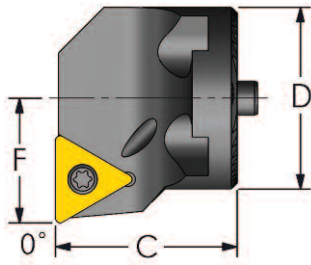
Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 STUCR2	.984	25mm	.787	.669	1.260	TCMT 21.51	MTS-255	T-7	\$211.77
SH20 STUCR3	1.260	32mm	1.260	.866	1.575	TCMT 32.52	MTS-35	T-15	\$217.26
SH24 STUCR3	1.575	40mm	1.496	1.063	1.968		MTS-35	T-15	\$231.53

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 STUCL2	.984	25mm	.787	.669	1.260	TCMT 21.51	MTS-255	T-7	\$211.77
SH20 STUCL3	1.260	32mm	1.260	.866	1.575	TCMT 32.52	MTS-35	T-15	\$217.26
SH24 STUCL3	1.575	40mm	1.496	1.063	1.968		MTS-35	T-15	\$231.53

Also available in: [Standard CFT pg: 12](#)



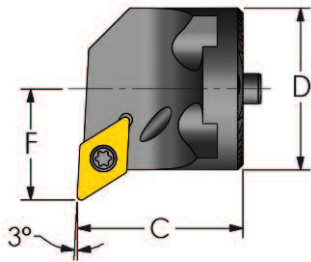
(Prices are subject to change without notice.)



**Positive Triangle
(0° Lead)
Coolant Thru**

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 STFCR2	.984	25mm	.787	.669	1.260	TCMT 21.51	MTS-255	T-7	\$211.77
SH20 STFCR3	1.260	32mm	1.260	.866	1.575	TCMT 32.52	MTS-35	T-15	\$217.26
SH24 STFCR3	1.575	40mm	1.496	1.063	1.968		MTS-35	T-15	\$231.53

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 STFCL2	.984	25mm	.787	.669	1.260	TCMT 21.51	MTS-255	T-7	\$211.77
SH20 STFCL3	1.260	32mm	1.260	.866	1.575	TCMT 32.52	MTS-35	T-15	\$217.26
SH24 STFCL3	1.575	40mm	1.496	1.063	1.968		MTS-35	T-15	\$231.53

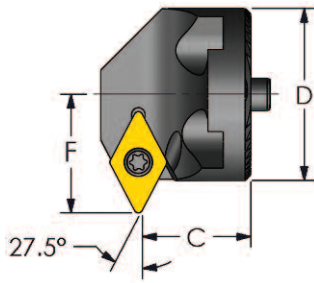


**Positive 55° Diamond
(-3° Lead) Profiling
Coolant Thru**

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SDUCR3	.984	25mm	.787	.669	1.260	DCMT 32.52	MTS-35	T-15	\$211.77
SH20 SDUCR3	1.260	32mm	1.260	.866	1.575		MTS-35	T-15	\$217.26
SH24 SDUCR3	1.575	40mm	1.496	1.063	1.968		MTS-35	T-15	\$231.53

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SDUCL3	.984	25mm	.787	.669	1.260	DCMT 32.52	MTS-35	T-15	\$211.77
SH20 SDUCL3	1.260	32mm	1.260	.866	1.575		MTS-35	T-15	\$217.26
SH24 SDUCL3	1.575	40mm	1.496	1.063	1.968		MTS-35	T-15	\$231.53

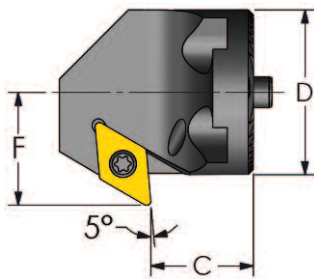
Also available in: **Standard CFT pg: 13**



Positive 55° Diamond (27.5° Lead) Profiling Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SDNCR2	.984	25mm	.591	.709	1.299	DCMT 21.51	MTS-255	T-7	\$211.77
SH20 SDNCR3	1.260	32mm	.787	.866	1.575	DCMT 32.52	MTS-35	T-15	\$217.26
SH24 SDNCR3	1.575	40mm	.787	1.063	1.968		MTS-35	T-15	\$231.53

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SDNCL2	.984	25mm	.591	.709	1.299	DCMT 21.51	MTS-255	T-7	\$211.77
SH20 SDNCL3	1.260	32mm	.787	.866	1.575	DCMT 32.52	MTS-35	T-15	\$217.26
SH24 SDNCL3	1.575	40mm	.787	1.063	1.968		MTS-35	T-15	\$231.53



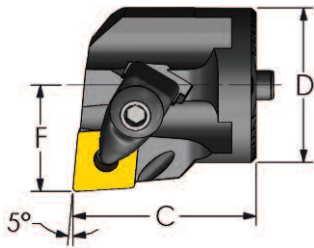
Positive 55° Diamond (5° Lead) Back Facing Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SDXCR2	.984	25mm	.591	.709	1.299	DCMT 21.51	MTS-255	T-7	\$211.77
SH20 SDXCR3	1.260	32mm	.787	.866	1.575	DCMT 32.52	MTS-35	T-15	\$217.26
SH24 SDXCR3	1.575	40mm	.787	1.063	1.968		MTS-35	T-15	\$231.53

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Insert Screw	Key	Price
SH16 SDXCL2	.984	25mm	.591	.709	1.299	DCMT 21.51	MTS-255	T-7	\$211.77
SH20 SDXCL3	1.260	32mm	.787	.866	1.575	DCMT 32.52	MTS-35	T-15	\$217.26
SH24 SDXCL3	1.575	40mm	.787	1.063	1.968		MTS-35	T-15	\$231.53



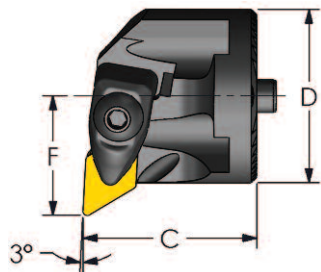
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PULLBACK Clamp
Negative 80° Diamond
(-5° Lead)
Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DCLNR4	1.260	32mm	1.496	.866	1.575	CNMG 432	ICSN-433	PB4-SS	PB4-CA	\$267.73
SH24 DCLNR4	1.575	40mm	1.496	1.063	1.968		ICSN-433	PB4-SS	PB4-CA	\$278.70

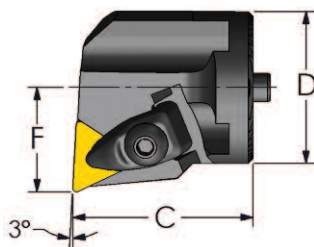
Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DCLNL4	1.260	32mm	1.496	.866	1.575	CNMG 432	ICSN-433	PB4-SS	PB4-CA	\$267.73
SH24 DCLNL4	1.575	40mm	1.496	1.063	1.968		ICSN-433	PB4-SS	PB4-CA	\$278.70



PULLBACK Clamp
Negative 55° Diamond
(-3° Lead)
Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DDUNR3	1.260	32mm	1.260	.866	1.575	DNMG 332	IDSN-322	PB3-SS	PB3-CA	\$267.73
SH24 DDUNR4	1.575	40mm	1.260	1.063	1.968	DNMG 432	IDSN-433	PB4-SS	PB4-CA	\$278.70

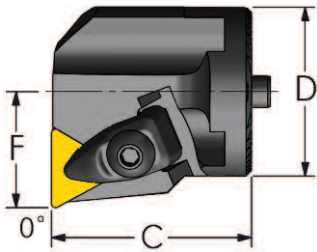
Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DDUNL3	1.260	32mm	1.260	.866	1.575	DNMG 332	IDSN-322	PB3-SS	PB3-CA	\$267.73
SH24 DDUNL4	1.575	40mm	1.260	1.063	1.968	DNMG 432	IDSN-433	PB4-SS	PB4-CA	\$278.70



PULLBACK Clamp
Negative Triangle
(-3° Lead)
Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DTUNR3	1.260	32mm	1.496	.866	1.575	TNMG 332	ITSN-323	PB3-SS	PB3-CA	\$267.73
SH24 DTUNR3	1.575	40mm	1.496	1.063	1.968		ITSN-323	PB3-SS	PB3-CA	\$278.70

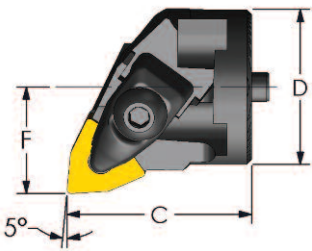
Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DTUNL3	1.260	32mm	1.496	.866	1.575	TNMG 332	ITSN-323	PB3-SS	PB3-CA	\$267.73
SH24 DTUNL3	1.575	40mm	1.496	1.063	1.968		ITSN-323	PB3-SS	PB3-CA	\$278.70



PULLBACK Clamp
Negative Triangle
(0° Lead)
Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DTFNR3	1.260	32mm	1.496	.866	1.575	TNMG 332	ITSN-323	PB3-SS	PB3-CA	\$267.73
SH24 DTFNR3	1.575	40mm	1.496	1.063	1.968		ITSN-323	PB3-SS	PB3-CA	\$278.70

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DTFNL3	1.260	32mm	1.496	.866	1.575	TNMG 332	ITSN-323	PB3-SS	PB3-CA	\$267.73
SH24 DTFNL3	1.575	40mm	1.496	1.063	1.968		ITSN-323	PB3-SS	PB3-CA	\$278.70



PULLBACK Clamp
Negative Trigon
(-5° Lead)
Coolant Thru

Designation Right Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DWLNR4	1.260	32mm	1.496	.866	1.575	WNMG 432	IWSN-433	PB4-SS	PB4-CA	\$267.73
SH24 DWLNR4	1.575	40mm	1.496	1.063	1.968		IWSN-433	PB4-SS	PB4-CA	\$278.70

Designation Left Hand	D Dia.	Coupling Size	C OAL	F	Min Bore	Insert	Shim Seat	Shim Screw	Clamp Assy.	Price
SH20 DWLNL4	1.260	32mm	1.496	.866	1.575	WNMG 432	IWSN-433	PB4-SS	PB4-CA	\$267.73
SH24 DWLNL4	1.575	40mm	1.496	1.063	1.968		IWSN-433	PB4-SS	PB4-CA	\$278.70

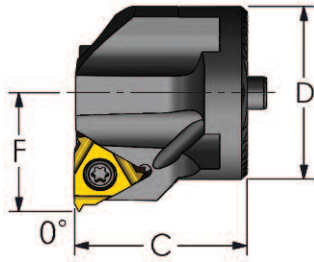
- **Increased Rigidity in Clamping**
- **Faster Insert Indexing**

Unlike conventional "CL" Barrel clamp systems, which requires a lockpin and clamp for proper clamping; our new system only requires the PULLBACK clamp. This clamp is an all-in-one solution that naturally draws the insert back into the center of the pocket creating maximum rigidity and allowing faster indexing.



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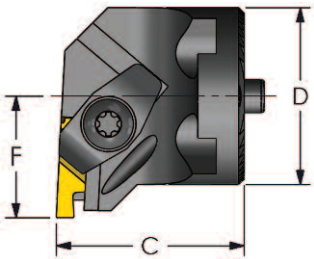


**Threading / Grooving
Laydown
Coolant Thru**

Designation Right Hand	D Dia.	D Dia.(mm)	C OAL	F	Min Bore	Insert	Insert Screw	Anvil Screw	Anvil	Price
SH16 LSER3	.984	25	.984	.669	1.260	3IR	SA3T	SY3T	YI3	\$285.29
SH20 LSER3	1.260	32	1.260	.866	1.575		SA3T	SY3T	YI3	\$312.72
SH24 LSER3	1.575	40	1.260	1.063	1.968		SA3T	SY3T	YI3	\$329.18
SH20 LSER4	1.260	32	1.260	.866	1.575	4IR	SA4T	SY4T	YI4	\$312.72
SH24 LSER4	1.575	40	1.260	1.063	1.968		SA4T	SY4T	YI4	\$329.18

Designation Left Hand	D Dia.	D Dia.(mm)	C OAL	F	Min Bore	Insert	Insert Screw	Anvil Screw	Anvil	Price
SH16 LSEL3	.984	25	.984	.669	1.260	3IL	SA3T	SY3T	YE3	\$285.29
SH20 LSEL3	1.260	32	1.260	.866	1.575		SA3T	SY3T	YE3	\$312.72
SH24 LSEL3	1.575	40	1.260	1.063	1.968		SA3T	SY3T	YE3	\$329.18
SH20 LSEL4	1.260	32	1.260	.866	1.575	4IL	SA4T	SY4T	YE4	\$312.72
SH24 LSEL4	1.575	40	1.260	1.063	1.968		SA4T	SY4T	YE4	\$329.18

Also available in: Standard CFT pg: 19



**Threading / Grooving
Top Notch
Coolant Thru**

Designation Right Hand	D Dia.	D Dia.(mm)	C OAL	F	Min Bore	Insert	Clamp	Screw	Price
SH20 NER3	1.260	32	1.340	.866	1.730	NG 3L	CM-73	10-32	\$301.75
SH24 NER3	1.575	40	1.575	1.102	2.210		CM-73	10-32	\$317.11
SH24 NER4	1.575	40	1.575	1.102	2.210	NG 4L	CM-73	10-32	\$317.11

Designation Left Hand	D Dia.	D Dia.(mm)	C OAL	F	Min Bore	Insert	Clamp	Screw	Price
SH20 NEL3	1.260	32	1.340	.866	1.730	NG 3R	CM-72	10-32	\$301.75
SH24 NEL3	1.575	40	1.575	1.102	2.210		CM-72	10-32	\$317.11
SH24 NEL4	1.575	40	1.575	1.102	2.210	NG 4R	CM-72	10-32	\$317.11

Also available in: Standard CFT pg: 20

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