

## Advanced Ceramic Toolholders

Greenleaf toolholder systems for use with ceramic inserts are based upon industry standard hardware. However, geometry and pocket depth are designed to maximize ceramic performance. Negative tools have a 10° negative side rake rather than the 5° usually found in tools for carbide inserts. This will increase clearance and, in turn, tool life. The additional pocket depth allows for thicker inserts with shims available to adjust the thickness stack-up for thinner tools if necessary.

The standard clamp is the long series to secure the inserts without a hole which is a stronger set-up. (Short clamps are an optional item.) All tools are fully heat-treated alloy steel and are qualified to  $\pm 0,07$  on the "F" and "C" dimensions.

Greenleaf has designated a "C" prefix for a ceramic insert toolholder and an "H" prefix for ceramic insert toolholder for hard material machining.

### Rough Stuff® Surface Treatment

Greatly improved insert-gripping power for greater accuracy, speed and pocket retention. Available on WG-300®, WG-600®, WG-700™, and GSN100™ ceramics.

U.S. Patent No. 6,712,564 B1

### Greenleaf Tune-Up Kits

A Tune-Up Kit consists of all the standard hardware to refurbish a particular toolholder, boring bar, or milling cutter. A toolholder will have a readily visible, laser-inscribed Tune-Up Kit number on it for ease in ordering. This number will prevent any confusion created by searching a catalog for hardware, and it will help reduce downtime.

Greenleaf Corporation is continually upgrading its products. For the most current information, please visit our web site at:

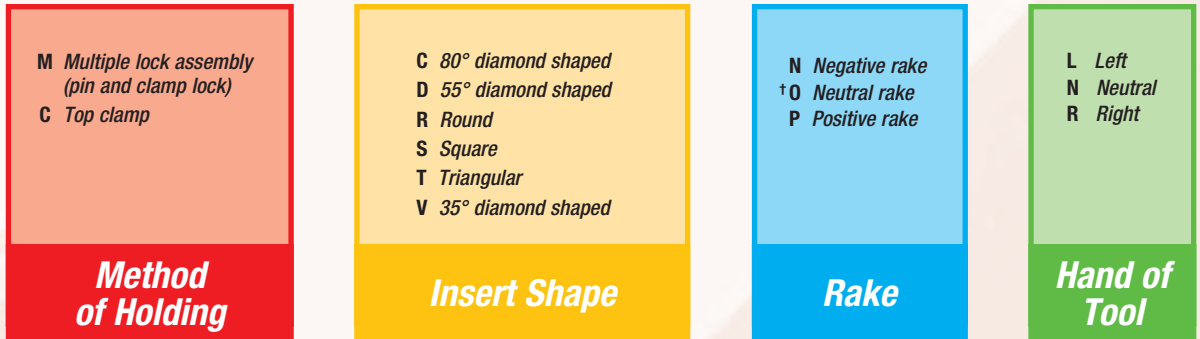
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# Toolholder Identification System



**G** = Industry Standard Toolholder  
**C** = Ceramic Insert Toolholder for heat-resistant alloys  
**H** = Ceramic Insert toolholder for hardened materials

**Toolholder Style Prefix †**

**A** Straight shank with 90° side cutting edge angle  
**B** Straight shank with 75° side cutting edge angle  
**C** Straight shank with 90° end cutting edge angle  
**D** Straight shank with 45° side cutting edge angle  
**E** Straight shank with 60° side cutting edge angle  
**F** Offset shank with 90° end cutting edge angle  
**G** Offset shank with 90° side cutting edge angle  
**†H** Offset shank for I.D. threading and shallow grooving  
**†I** Offset shank with 62.5° end cutting edge angle  
**J** Offset shank with negative 93° side cutting edge angle  
**K** Offset shank with 75° end or side cutting edge angle  
**L** Offset shank with negative 95° end or side cutting edge angle

**M** Straight shank with 40° side cutting edge angle  
**N** Straight shank with 63° side cutting edge angle  
**†O** Straight shank with centrally located round insert  
**P** Straight shank with 62.5° side cutting edge angle  
**R** Offset shank with 75° side cutting edge angle  
**S** Offset shank with 45° side cutting edge angle  
**†T** Offset shank with negative 62.5° side or end cutting edge angle  
**†U** Offset shank for deep grooving  
**†V** Offset shank with negative 72.5° side or end cutting edge angle  
**W** Offset shank with 80° side cutting edge angle

**Toolholder Style**

† Greenleaf standard.

Integers to be preceded by 0.  
Example: 8mm = 08

**Toolholder  
Shank Width**

**Cutting Edge Length**

32   32   P   =   12

Integers to be preceded by 0.  
Example: 8mm = 08

**Toolholder  
Shank Height**

A = 32	N = 160
B = 40	P = 170
C = 50	Q = 180
D = 60	R = 200
E = 70	S = 250
F = 80	T = 300
G = 90	U = 350
H = 100	V = 400
J = 110	W = 450
K = 125	Y = 500
L = 140	X = Special Length
M = 150	

**Toolholder Length**

**NOTE:**  
All toolholders are qualified to  $\pm 0,07$  over gage insert radius on the "C" and "F" dimensions as standard. Some toolholders are qualifiable on the "C" length dimension only.

# Advanced Ceramic Toolholder Usage Reference Guide

Toolholder Style

Geometry

Toolholder Application

Insert Geometry

Insert

Tune-Up Kits

**C-MCKNR/L**  
Style K  
80° Diamond  
(Using 100° Corner)  
Negative Rake, 15° Lead

Part Number	Gage	Stock	Dimensions (millimeters)							Standard Components			*Tune-Up Kit			Optional Components		
Right	Left	Insert	R	A	B	C	E	F	Shim Seat	Seat	Clamp	Includes All Standard Components	Lock Pin	Clamp	Shim Seat	Shim Seat	Shim Seat	
C-MCKNR-2528M12	C-MCKNR-2528M12	CN6N-120428	25	25	150	32	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCKNR-3228P12	C-MCKNR-3228P12	CN6N-120428	32	32	170	38	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCKNR-3228P12	C-MCKNR-3228P12	CN6N-120428	32	32	170	38	40	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCKNR-3228P19	C-MCKNR-3228P19	CN6N-190812	32	32	170	38	40	32	C26-433	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		
C-MCKNR-4048P19	C-MCKNR-4048P19	CN6N-190812	40	40	200	38	32	32	C26-443	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

**C-MCRNR/L**  
Style R  
80° Diamond  
(Using 100° Corner)  
Negative Rake, 15° Lead

Part Number	Gage	Stock	Dimensions (millimeters)							Standard Components			*Tune-Up Kit			Optional Components		
Right	Left	Insert	R	A	B	C	E	F	Shim Seat	Seat	Clamp	Includes All Standard Components	Lock Pin	Clamp	Shim Seat	Shim Seat	Shim Seat	
C-MCRNR-2528M12	C-MCRNR-2528M12	CN6N-120428	25	25	150	32	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCRNR-3228P12	C-MCRNR-3228P12	CN6N-120428	32	32	170	38	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCRNR-3228P12	C-MCRNR-3228P12	CN6N-120428	32	32	170	38	40	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCRNR-3228P19	C-MCRNR-3228P19	CN6N-190812	32	32	170	38	40	32	C26-433	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		
C-MCRNR-4048P19	C-MCRNR-4048P19	CN6N-190812	40	40	200	38	32	32	C26-443	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

**C-MCLNR/L**  
Style L  
80° Diamond  
Negative Rake  
Reverse Lead

Part Number	Gage	Stock	Dimensions (millimeters)							Standard Components			*Tune-Up Kit			Optional Components		
Right	Left	Insert	R	A	B	C	E	F	Shim Seat	Seat	Clamp	Includes All Standard Components	Lock Pin	Clamp	Shim Seat	Shim Seat	Shim Seat	
C-MCLNR-2528M12	C-MCLNR-2528M12	CN6N-120428	25	25	150	32	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCLNR-3228P12	C-MCLNR-3228P12	CN6N-120428	32	32	170	38	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCLNR-3228P12	C-MCLNR-3228P12	CN6N-120428	32	32	170	38	40	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCLNR-3228P19	C-MCLNR-3228P19	CN6N-190812	32	32	170	38	40	32	C26-433	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		
C-MCLNR-4048P19	C-MCLNR-4048P19	CN6N-190812	40	40	200	38	32	32	C26-443	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

**C-MCSNR/L**  
Style S  
80° Diamond  
(Using 100° Corner)  
Negative Rake, 45° Lead

Part Number	Gage	Stock	Dimensions (millimeters)							Standard Components			*Tune-Up Kit			Optional Components		
Right	Left	Insert	R	A	B	C	E	F	Shim Seat	Seat	Clamp	Includes All Standard Components	Lock Pin	Clamp	Shim Seat	Shim Seat	Shim Seat	
C-MCSNR-2528M12	C-MCSNR-2528M12	CN6N-120428	25	25	150	32	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCSNR-3228P12	C-MCSNR-3228P12	CN6N-120428	32	32	170	38	32	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCSNR-3228P12	C-MCSNR-3228P12	CN6N-120428	32	32	170	38	40	32	C26-433	S-40M	CLM-12	ST2M-4	TK-02750	NLM-48L	CLM-9	C26-433		
C-MCSNR-3228P19	C-MCSNR-3228P19	CN6N-190812	32	32	170	38	40	32	C26-433	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		
C-MCSNR-4048P19	C-MCSNR-4048P19	CN6N-190812	40	40	200	38	32	32	C26-443	S-40M	CLM-30	ST2M-4	TK-02751	NLM-48L	CLM-12	C26-433		

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

**Part Number**

**Standard Components**

**Dimensions**

**Stocking Program**

**Optional Components**

**Optional Components**

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**80°/100° Diamond – Negative**

**C-MCKNR/L**  
Style K  
80° Diamond  
(Using 100° Corner)  
Negative Rake  
75° Lead Angle  
page: T 104

**C-MCLNR/L**  
Style L  
80° Diamond  
Negative Rake  
95° Lead Angle  
page: T 104

**C-MCRNR/L**  
Style R  
80° Diamond  
(Using 100° Corner)  
Negative Rake  
75° Lead Angle  
page: T 105

**C-MCSNR/L**  
Style S  
80° Diamond  
(Using 100° Corner)  
Negative Rake  
45° Lead Angle  
page: T 105

**55° Diamond – Negative**

**C-MDJNR/L**  
Style J  
55° Diamond  
Negative Rake  
93° Lead Angle  
page: T 106

**C-MDPNN**  
Style P  
55° Diamond  
Negative Rake  
72.5° Lead Angle  
page: T 106

**Round – Negative**

**C-MRGNR/L**  
Style G  
Round  
Negative Rake  
page: T 107

**C-MRDNN**  
Style D  
Round  
Negative Rake  
page: T 107

**Square – Negative**

**C-MSKNR/L**  
Style K  
Square  
Negative Rake  
75° Lead Angle  
page: T 108

**C-MSRNR/L**  
Style R  
Square  
Negative Rake  
75° Lead Angle  
page: T 108

**C-MSSNR/L**  
Style S  
Square  
Negative Rake  
45° Lead Angle  
page: T 109

**Triangle – Negative**

**C-MTFNR/L**  
Style F  
Triangle  
Negative Rake  
90° Lead Angle  
page: T 110

**C-MTGNR/L**  
Style G  
Triangle  
Negative Rake  
90° Lead Angle  
page: T 110

**C-MTLNR/L**  
Style L  
Triangle  
Negative Rake  
95° Lead Angle  
page: T 111

**Trigon – Negative**

**C-MWLNRL**  
Style L  
Trigon  
Negative Rake  
95° Lead Angle  
page: T 111

**Hard-Turning – Negative**

**H-MCLNR/L**  
Style L  
80° Diamond  
Negative Rake  
95° Lead Angle  
page: T 112

**H-MRGNR/L**  
Style G  
Round  
Negative Rake  
page: T 112

**H-MSRNR/L**  
Style R  
Square  
Negative Rake  
75° Lead Angle  
page: T 113

**H-MWLNRL**  
Style L  
Trigon  
Negative Rake  
95° Lead Angle  
page: T 113

**80°/100° Diamond – Positive**

**C-CCKPR/L**  
Style K  
80° Diamond  
(Using 100° Corner)  
Positive Rake  
75° Lead Angle  
page: T 114

**C-CCLPR/L**  
Style L  
80° Diamond  
Positive Rake  
95° Lead Angle  
page: T 114

**C-CCRPR/L**  
Style R  
80° Diamond  
(Using 100° Corner)  
Positive Rake  
75° Lead Angle  
page: T 114

**80°/100° Diamond – Positive *continued***

**C-CCSPR/L**  
Style S  
80° Diamond  
(Using 100° Corner)  
Positive Rake  
45° Lead Angle  
page: T 115

**Round – Positive**

**C-CRGPRL**  
Style G  
Round  
Positive Rake  
page: T 115

**Square – Positive**

**C-CSDPN**  
Style D  
Square  
Positive Rake  
45° Lead Angle  
page: T 116

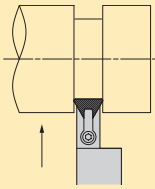
**C-CSKPR/L**  
Style K  
Square  
Positive Rake  
75° Lead Angle  
page: T 116

**C-CSRPR/L**  
Style R  
Square  
Positive Rake  
75° Lead Angle  
page: T 117

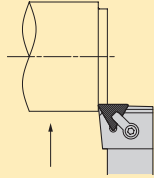
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Style S  
Square  
Positive Rake  
45° Lead Angle  
page: T 117

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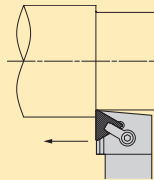
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**Triangle – Positive**

**C-CTCPR/L**

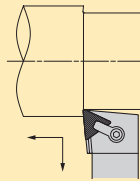
Style C  
Triangle  
Positive Rake  
90° Lead Angle  
*page: T 118*


**C-CTFPR/L**

Style F  
Triangle  
Positive Rake  
90° Lead Angle  
*page: T 118*


**C-CTGPR/L**

Style G  
Triangle  
Positive Rake  
90° Lead Angle  
*page: T 119*


**C-CTLPR/L**

Style L  
Triangle  
Positive Rake  
95° Lead Angle  
*page: T 119*

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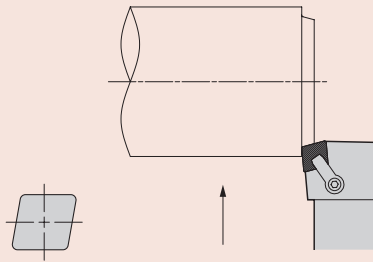
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80°

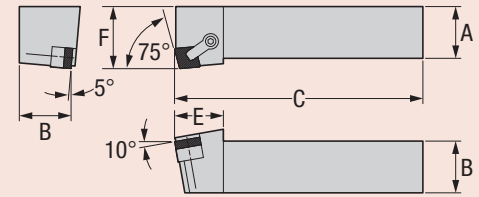


# C-MCKNR/L

Style K, 80° Diamond  
(Using 100° Corner)  
Negative Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown

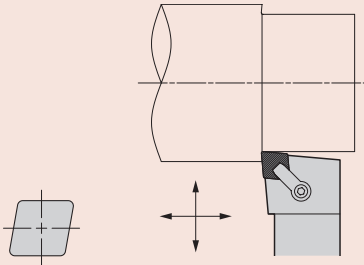


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MCKNR-2525M12	C-MCKNL-2525M12	CNGN-120408	○	○	25	25	150	30	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCKNR-2525P12	C-MCKNL-2525P12	CNGN-120408	●	●	25	25	170	30	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCKNR-3232P12	C-MCKNL-3232P12	CNGN-120408	●	●	32	32	170	30	40	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCKNR-3232P19	C-MCKNL-3232P19	CNGN-190612	○	○	32	32	170	36	40	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633
C-MCKNR-4040R19	C-MCKNL-4040R19	CNGN-190612	○	○	40	40	200	36	50	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633

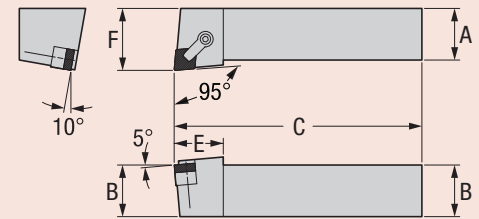
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-MCLNR/L

Style L  
80° Diamond  
Negative Rake  
95° Lead Angle



Right-Hand  
Toolholder Shown

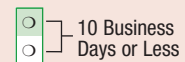
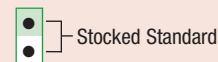


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MCLNR-2525M12	C-MCLNL-2525M12	CNGN-120408	○	○	25	25	150	30	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCLNR-2525P12	C-MCLNL-2525P12	CNGN-120408	●	●	25	25	170	30	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCLNR-3232P12	C-MCLNL-3232P12	CNGN-120408	●	●	32	32	170	30	40	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCLNR-3232P19	C-MCLNL-3232P19	CNGN-190612	○	○	32	32	170	40	40	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633
C-MCLNR-4040R19	C-MCLNL-4040R19	CNGN-190612	○	○	40	40	200	40	50	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

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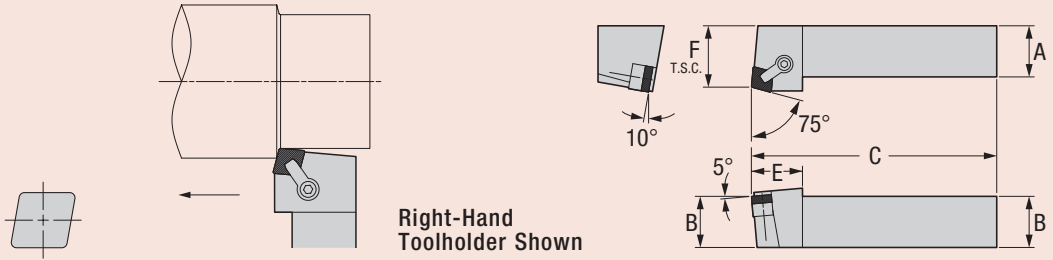
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# C-MCRNR/L

Style R, 80° Diamond  
(Using 100° Corner)  
Negative Rake  
75° Lead Angle

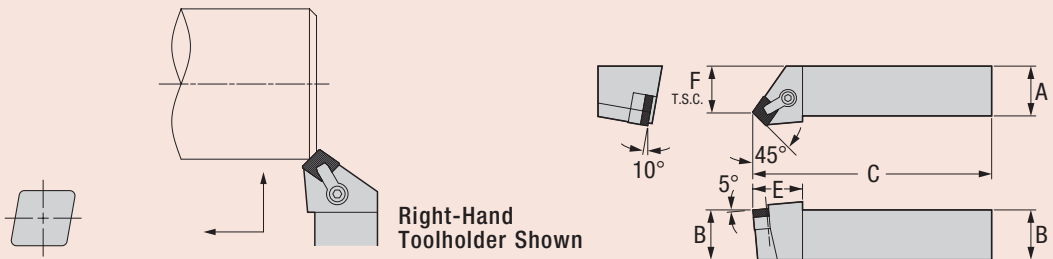


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7.92 Insert Shim Seat
C-MCRNR-2525M12	C-MCRNL-2525M12	CNGN-120408	○	○	25	25	150	32	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCRNR-2525P12	C-MCRNL-2525P12	CNGN-120408	●	●	25	25	170	32	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCRNR-3232P12	C-MCRNL-3232P12	CNGN-120408	●	●	32	32	170	32	40	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCRNR-3232P19	C-MCRNL-3232P19	CNGN-190612	○	○	32	32	170	38	40	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633
C-MCRNR-4040R19	C-MCRNL-4040R19	CNGN-190612	○	○	40	40	200	38	50	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-MCSNR/L

Style S, 80° Diamond  
(Using 100° Corner)  
Negative Rake  
45° Lead Angle



Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7.92 Insert Shim Seat
C-MCSNR-2525M12	C-MCSNL-2525M12	CNGN-120408	○	○	25	25	150	32	23	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCSNR-2525P12	C-MCSNL-2525P12	CNGN-120408	○	○	25	25	170	32	23	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCSNR-3232P12	C-MCSNL-3232P12	CNGN-120408	○	○	32	32	170	32	29	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
C-MCSNR-3232P19	C-MCSNL-3232P19	CNGN-190612	○	○	32	32	170	38	25	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633
C-MCSNR-4040R19	C-MCSNL-4040R19	CNGN-190612	○	○	40	40	200	38	38	CSN-643	S-68M	CLM-30	STCM-4	TK-02751	NLM-68L	CLM-12	CSN-633

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

10 Business Days or Less

Stocked Standard

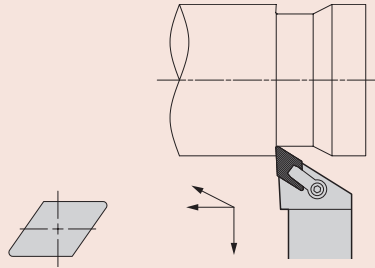
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55°

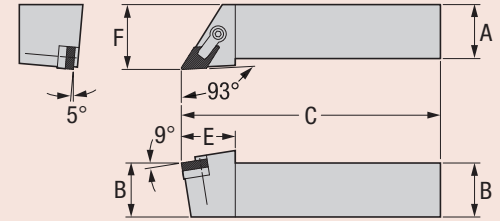


# C-MDJNR/L

Style J  
55° Diamond  
Negative Rake  
93° Lead Angle



Right-Hand  
Toolholder Shown

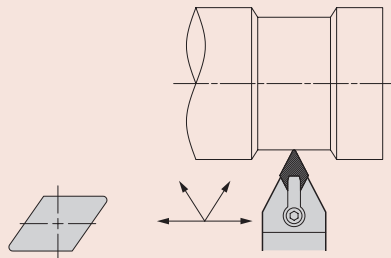


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components	
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp
C-MDJNR-2525M11	C-MDJNL-2525M11	DNGN-110308	○	○	25	25	150	25	32	DSN-333	S-34M	CLM-7	STCM-25	TK-02788	NLM-34L	CLM-6
C-MDJNR-2525P11	C-MDJNL-2525P11	DNGN-110308	○	○	25	25	170	25	32	DSN-333	S-34M	CLM-7	STCM-25	TK-02788	NLM-34L	CLM-6
C-MDJNR-3232P11	C-MDJNL-3232P11	DNGN-110308	○	○	32	32	170	25	40	DSN-333	S-34M	CLM-7	STCM-25	TK-02788	NLM-34L	CLM-6
C-MDJNR-2525M15	C-MDJNL-2525M15	DNGN-150408	○	○	25	25	150	32	32	DSN-433	S-46M	CLM-22	STCM-26	TK-02789	NLM-46	CLM-20
C-MDJNR-2525P15	C-MDJNL-2525P15	DNGN-150408	●	●	25	25	170	32	32	DSN-433	S-46M	CLM-22	STCM-26	TK-02789	NLM-46	CLM-20
C-MDJNR-3232P15	C-MDJNL-3232P15	DNGN-150408	●	●	32	32	170	32	40	DSN-433	S-46M	CLM-22	STCM-26	TK-02789	NLM-46	CLM-20
C-MDJNR-4040R15	C-MDJNL-4040R15	DNGN-150408	○	○	40	40	200	32	50	DSN-433	S-46M	CLM-22	STCM-26	TK-02789	NLM-46	CLM-20

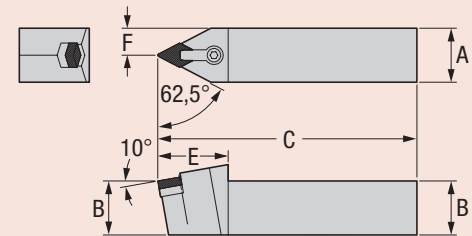
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-MDPNN

Style P  
55° Diamond  
Negative Rake  
62,5° Lead Angle



Neutral  
Toolholder Shown

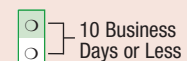
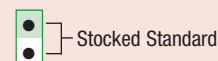


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components	
Neutral		Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp
C-MDPNN-2525M11		DNGN-110308	○		25	25	150	40	12,5	DSN-333	S-34M	CLM-12	STCM-4	TK-02785	NLM-34L	CLM-9
C-MDPNN-2525P11		DNGN-110308	○		25	25	170	40	12,5	DSN-333	S-34M	CLM-12	STCM-4	TK-02785	NLM-34L	CLM-9
C-MDPNN-3232P11		DNGN-110308	○		32	32	170	40	16	DSN-333	S-34M	CLM-12	STCM-4	TK-02785	NLM-34L	CLM-9
C-MDPNN-2525M15		DNGN-150408	○		25	25	150	41	12,5	DSN-433	S-46M	CLM-30	STCM-4	TK-02786	NLM-46L	CLM-12
C-MDPNN-2525P15		DNGN-150408	●		25	25	170	41	12,5	DSN-433	S-46M	CLM-30	STCM-4	TK-02786	NLM-46L	CLM-12
C-MDPNN-3232P15		DNGN-150408	●		32	32	170	41	16	DSN-433	S-46M	CLM-30	STCM-4	TK-02786	NLM-46L	CLM-12
C-MDPNN-4040R15		DNGN-150408	○		40	40	200	41	20	DSN-433	S-46M	CLM-30	STCM-4	TK-02786	NLM-46L	CLM-12

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

## Greenleaf Sales

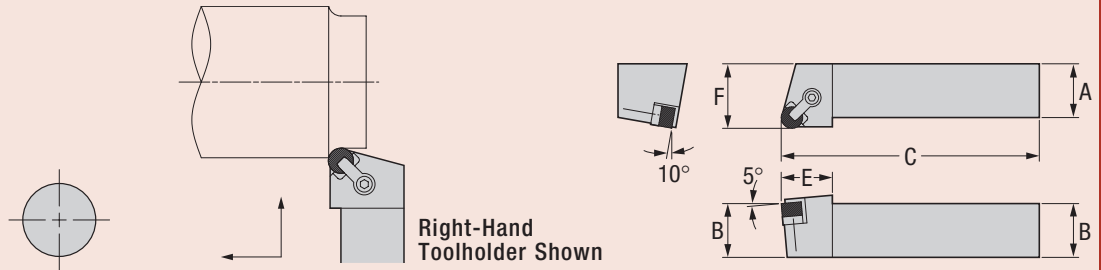
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# C-MRGNR/L

Style G  
Round  
Negative Rake

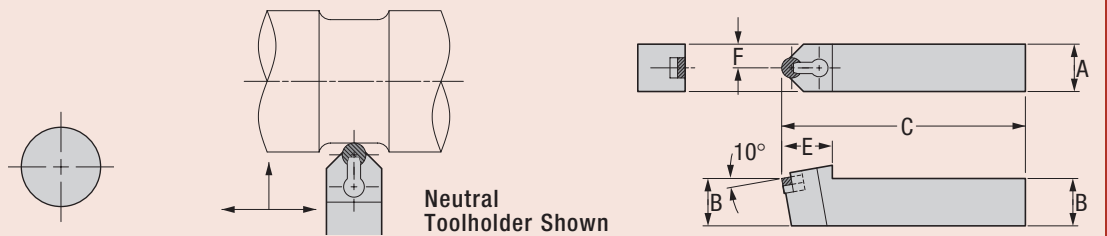


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit Includes All Std. Components	Optional Components #1		Optional Components #2	
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw		Lock Pin	Clamp	Ins. Thk.	Shim Seat
C-MRGNR-2525M09	C-MRGNL-2525M09	RNGN-090400	○	○	25	25	150	25	32	RSN-32	S-34M	CLM-7	STCM-25	TK-02790	NLM-34L	CLM-6	3,18	RSN-33
C-MRGNR-2525P09	C-MRGNL-2525P09	RNGN-090400	○	○	25	25	170	25	32	RSN-32	S-34M	CLM-7	STCM-25	TK-02790	NLM-34L	CLM-6	3,18	RSN-33
C-MRGNR-3232P09	C-MRGNL-3232P09	RNGN-090400	○	○	32	32	170	25	40	RSN-32	S-34M	CLM-7	STCM-25	TK-02790	NLM-34L	CLM-6	3,18	RSN-33
C-MRGNR-2525M12	C-MRGNL-2525M12	RNGN-120700	○	○	25	25	150	30	32	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRGNR-2525P12	C-MRGNL-2525P12	RNGN-120700	●	●	25	25	170	30	32	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRGNR-3232P12	C-MRGNL-3232P12	RNGN-120700	●	●	32	32	170	30	40	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRGNR-4040R12	C-MRGNL-4040R12	RNGN-120700	○	○	40	40	200	30	50	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRGNR-2525M19	C-MRGNL-2525M19	RNGN-190700	○	○	25	25	150	38	32	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-
C-MRGNR-2525P19	C-MRGNL-2525P19	RNGN-190700	○	○	25	25	170	38	32	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-
C-MRGNR-3232P19	C-MRGNL-3232P19	RNGN-190700	○	○	32	32	170	38	40	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-
C-MRGNR-4040R19	C-MRGNL-4040R19	RNGN-190700	○	○	40	40	200	38	50	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-MRDNN

Style D  
Round  
Negative Rake



Part Number		Gage	Stock	Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components #1		Optional Components #2	
Neutral	Insert	Insert		A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	Insert Thcknss	Shim Seat
C-MRDNN-2525M09	RNGN-090400	RNGN-090400	○	25	25	150	25	12,5	RSN-32	S-34M	CLM-7	STCM-25	TK-02790	NLM-34L	CLM-6	3,18	RSN-33
C-MRDNN-2525P09	RNGN-090400	RNGN-090400	○	25	25	170	25	12,5	RSN-32	S-34M	CLM-7	STCM-25	TK-02790	NLM-34L	CLM-6	3,18	RSN-33
C-MRDNN-3232P09	RNGN-090400	RNGN-090400	○	32	32	170	25	16	RSN-32	S-34M	CLM-7	STCM-25	TK-02790	NLM-34L	CLM-6	3,18	RSN-33
C-MRDNN-2525M12	RNGN-120700	RNGN-120700	○	25	25	150	35	12,5	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRDNN-2525P12	RNGN-120700	RNGN-120700	●	25	25	170	35	12,5	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRDNN-3232P12	RNGN-120700	RNGN-120700	●	32	32	170	35	16	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRDNN-4040R12	RNGN-120700	RNGN-120700	○	40	40	200	35	20	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	4,75	IRSN-45
C-MRDNN-2525M19	RNGN-190700	RNGN-190700	○	25	25	150	40	12,5	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-
C-MRDNN-2525P19	RNGN-190700	RNGN-190700	○	25	25	170	40	12,5	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-
C-MRDNN-3232P19	RNGN-190700	RNGN-190700	○	32	32	170	40	16	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-
C-MRDNN-4040R19	RNGN-190700	RNGN-190700	○	40	40	200	40	20	RSN-63	S-68M	CLM-30	STCM-4	TK-02792	NLM-68L	CLM-12	-	-

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

10 Business Days or Less

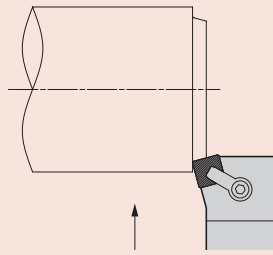
Stocked Standard

90°

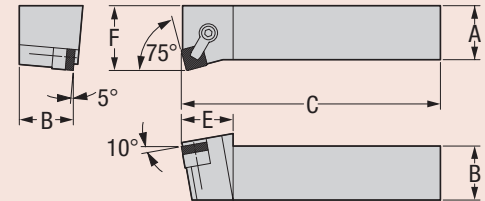


# C-MSKNR/L

Style K  
Square  
Negative Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown



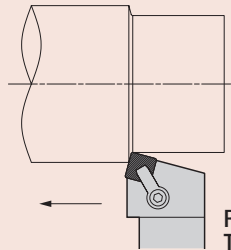
Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MSKNR-2525M12	C-MSKNL-2525M12	SNGN-120408	○	○	25	25	150	31	32	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSKNR-2525P12	C-MSKNL-2525P12	SNGN-120408	●	●	25	25	170	31	32	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSKNR-3232P12	C-MSKNL-3232P12	SNGN-120408	●	●	32	32	170	31	40	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSKNR-3232P15	C-MSKNL-3232P15	SNGN-150612	○	○	32	32	170	36	40	SSN-533	S-58M	CLM-12	STCM-4	TK-02794	NLM-58	CLM-9	-
C-MSKNR-4040R15	C-MSKNL-4040R15	SNGN-150612	○	○	40	40	200	36	50	SSN-533	S-58M	CLM-12	STCM-4	TK-02794	NLM-58	CLM-9	-
C-MSKNR-3232P19	C-MSKNL-3232P19	SNGN-190612	○	○	32	32	170	40	40	ISSN-633	S-68M	CLM-30	STCM-4	TK-02795	NLM-68	CLM-12	**ISSN-623
C-MSKNR-4040R19	C-MSKNL-4040R19	SNGN-190612	○	○	40	40	200	40	50	ISSN-633	S-68M	CLM-30	STCM-4	TK-02795	NLM-68	CLM-12	**ISSN-623

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

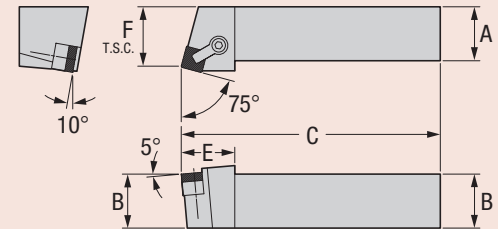
\*\* The lock pin option can NOT be used with this shim.

# C-MSRNR/L

Style R  
Square  
Negative Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown



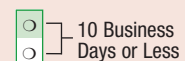
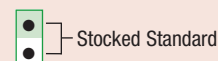
Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MSRNR-2525M12	C-MSRNL-2525M12	SNGN-120408	○	○	25	25	150	31	28	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSRNR-2525P12	C-MSRNL-2525P12	SNGN-120408	○	○	25	25	170	31	28	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSRNR-3232P12	C-MSRNL-3232P12	SNGN-120408	○	○	32	32	170	31	39	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSRNR-3232P15	C-MSRNL-3232P15	SNGN-150612	○	○	32	32	170	37	34	SSN-533	S-58M	CLM-12	STCM-4	TK-02794	NLM-58	CLM-9	-
C-MSRNR-4040R15	C-MSRNL-4040R15	SNGN-150612	○	○	40	40	200	37	47	SSN-533	S-58M	CLM-12	STCM-4	TK-02794	NLM-58	CLM-9	-
C-MSRNR-3232P19	C-MSRNL-3232P19	SNGN-190612	○	○	32	32	170	40	33	ISSN-633	S-68M	CLM-30	STCM-4	TK-02795	NLM-68	CLM-12	**ISSN-623
C-MSRNR-4040R19	C-MSRNL-4040R19	SNGN-190612	○	○	40	40	200	40	46	ISSN-633	S-68M	CLM-30	STCM-4	TK-02795	NLM-68	CLM-12	**ISSN-623

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

\*\* The lock pin option can NOT be used with this shim.

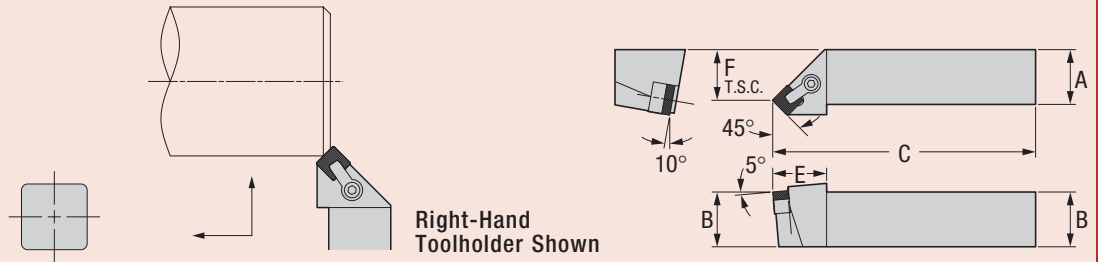
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# C-MSSNR/L

Style S  
Square  
Negative Rake  
45° Lead Angle



Right-Hand  
Toolholder Shown

Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MSSNR-2525M12	C-MSSNL-2525M12	SNGN-120408	○	○	25	25	150	31	23	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSSNR-2525P12	C-MSSNL-2525P12	SNGN-120408	●	●	25	25	170	31	23	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSSNR-3232P12	C-MSSNL-3232P12	SNGN-120408	●	●	32	32	170	31	29	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
C-MSSNR-3232P15	C-MSSNL-3232P15	SNGN-150612	○	○	32	32	170	35	27	SSN-533	S-58M	CLM-12	STCM-4	TK-02794	NLM-58	CLM-9	-
C-MSSNR-4040R15	C-MSSNL-4040R15	SNGN-150612	○	○	40	40	200	35	40	SSN-533	S-58M	CLM-12	STCM-4	TK-02794	NLM-58	CLM-9	-
C-MSSNR-3232P19	C-MSSNL-3232P19	SNGN-190612	○	○	32	32	170	38	25	ISSN-633	S-68M	CLM-30	STCM-4	TK-02795	NLM-68	CLM-12	**ISSN-623
C-MSSNR-4040R19	C-MSSNL-4040R19	SNGN-190612	○	○	40	40	200	38	40	ISSN-633	S-68M	CLM-30	STCM-4	TK-02795	NLM-68	CLM-12	**ISSN-623

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

\*\* The lock pin option can NOT be used with this shim.

10 Business Days or Less

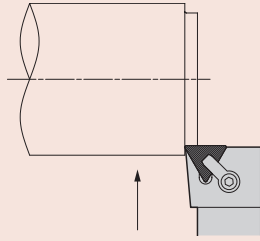
Stocked Standard

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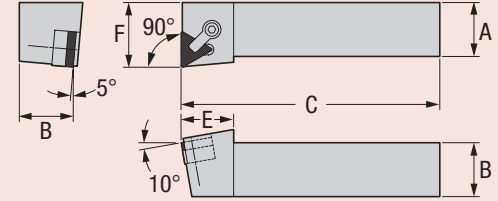


# C-MTFNR/L

Style F  
Triangle  
Negative Rake  
90° Lead Angle



Right-Hand  
Toolholder Shown

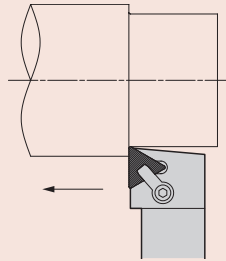


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MTFNR-2525M16	C-MTFNL-2525M16	TNGN-160408	○	○	25	25	150	24	32	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTFNR-2525P16	C-MTFNL-2525P16	TNGN-160408	○	○	25	25	170	24	32	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTFNR-3232P16	C-MTFNL-3232P16	TNGN-160408	○	○	32	32	170	24	40	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTFNR-2525M22	C-MTFNL-2525M22	TNGN-220408	○	○	25	25	150	30	32	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTFNR-2525P22	C-MTFNL-2525P22	TNGN-220408	○	○	25	25	170	30	32	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTFNR-3232P22	C-MTFNL-3232P22	TNGN-220408	○	○	32	32	170	30	40	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTFNR-4040R22	C-MTFNL-4040R22	TNGN-220408	○	○	40	40	200	30	50	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433

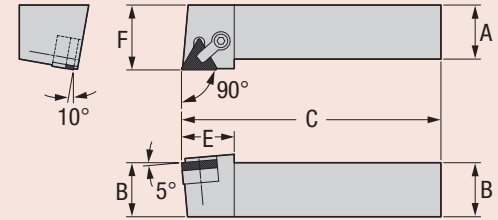
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-MTGNR/L

Style G  
Triangle  
Negative Rake  
90° Lead Angle



Right-Hand  
Toolholder Shown



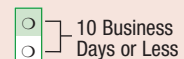
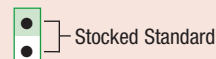
Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MTGNR-2525M16	C-MTGNL-2525M16	TNGN-160408	○	○	25	25	150	28	32	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTGNR-2525P16	C-MTGNL-2525P16	TNGN-160408	○	○	25	25	170	28	32	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTGNR-3232P16	C-MTGNL-3232P16	TNGN-160408	○	○	32	32	170	28	40	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTGNR-2525M22	C-MTGNL-2525M22	TNGN-220408	○	○	25	25	150	30	32	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTGNR-2525P22	C-MTGNL-2525P22	TNGN-220408	○	○	25	25	170	30	32	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTGNR-3232P22	C-MTGNL-3232P22	TNGN-220408	○	○	32	32	170	30	40	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTGNR-4040R22	C-MTGNL-4040R22	TNGN-220408	○	○	40	40	200	30	50	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

\*\* The lock pin option can NOT be used with this shim.

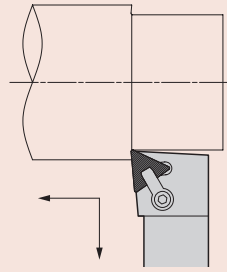
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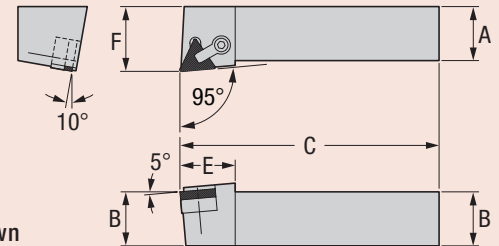


# C-MTLNR/L

Style L  
Triangle  
Negative Rake  
95° Lead Angle



Right-Hand  
Toolholder Shown

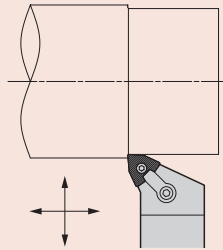


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
C-MTLNR-2525M16	C-MTLNL-2525M16	TNGN-160408	○	○	25	25	150	28	32	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTLNR-2525P16	C-MTLNL-2525P16	TNGN-160408	○	○	25	25	170	28	32	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTLNR-3232P16	C-MTLNL-3232P16	TNGN-160408	○	○	32	32	170	28	40	ITSN-322	S-34M	CLM-7	STCM-25	TK-02809	NLM-34L	CLM-6	-
C-MTLNR-2525M22	C-MTLNL-2525M22	TNGN-220408	○	○	25	25	150	30	32	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTLNR-2525P22	C-MTLNL-2525P22	TNGN-220408	○	○	25	25	170	30	32	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTLNR-3232P22	C-MTLNL-3232P22	TNGN-220408	○	○	32	32	170	30	40	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433
C-MTLNR-4040R22	C-MTLNL-4040R22	TNGN-220408	○	○	40	40	200	30	50	ITSN-453	S-46M	CLM-12	STCM-4	TK-02810	NLM-46L	CLM-9	ITSN-433

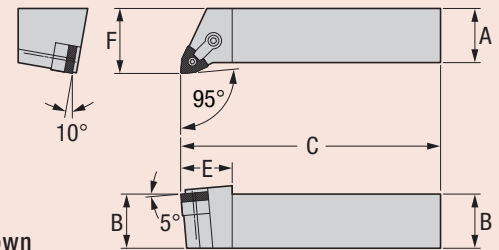
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-MWLNR/L

Style L  
Trigon  
Negative Rake  
95° Lead Angle



Right-Hand  
Toolholder Shown



Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Lock Pin	Clamp	Clamp Screw	Includes All Standard Components
C-MWLNR-2020M06	C-MWLNL-2020M06	WNGA-060408	○	○	20	20	150	25	25	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
C-MWLNR-2525M06	C-MWLNL-2525M06	WNGA-060408	○	○	25	25	150	25	32	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
C-MWLNR-3232P06	C-MWLNL-3232P06	WNGA-060408	○	○	32	32	170	25	40	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
C-MWLNR-4040R06	C-MWLNL-4040R06	WNGA-060408	○	○	40	40	200	25	50	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
C-MWLNR-2020M08	C-MWLNL-2020M08	WNGA-080408	○	○	20	20	150	27	25	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812
C-MWLNR-2525M08	C-MWLNL-2525M08	WNGA-080408	○	○	25	25	150	27	32	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812
C-MWLNR-3232P08	C-MWLNL-3232P08	WNGA-080408	○	○	32	32	170	27	40	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812
C-MWLNR-4040R08	C-MWLNL-4040R08	WNGA-080408	○	○	40	40	200	27	50	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

10 Business Days or Less

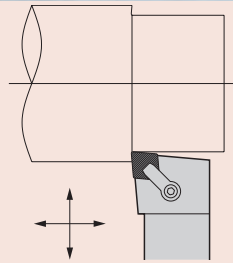
Stocked Standard

80°

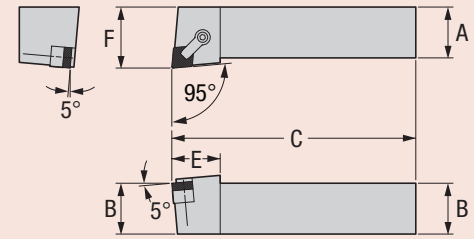


# H-MCLNR/L

Style L  
80° Diamond  
Negative Rake  
95° Lead Angle



Right-Hand  
Toolholder Shown

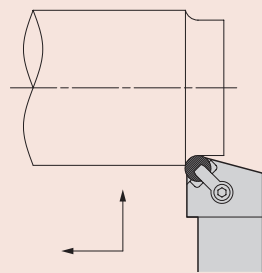


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
H-MCLNR-2525M12	H-MCLNL-2525M12	CNGN-120408	○	○	25	25	150	30	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
H-MCLNR-2525P12	H-MCLNL-2525P12	CNGN-120408	●	●	25	25	170	30	32	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433
H-MCLNR-3232P12	H-MCLNL-3232P12	CNGN-120408	●	●	32	32	170	30	40	CSN-453	S-46M	CLM-12	STCM-4	TK-02750	NLM-46L	CLM-9	CSN-433

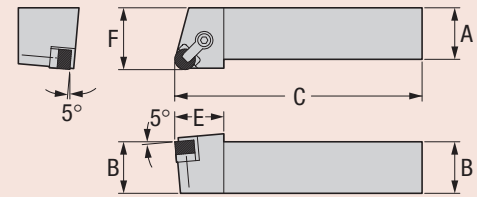
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# H-MRGNR/L

Style G  
Round  
Negative Rake



Right-Hand  
Toolholder Shown



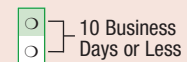
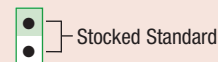
Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	4,75 Insert Shim Seat
H-MRGNR-2525M12	H-MRGNL-2525M12	RNGN-120700	○	○	25	25	150	30	32	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	IRSN-45
H-MRGNR-2525P12	H-MRGNL-2525P12	RNGN-120700	●	●	25	25	170	30	32	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	IRSN-45
H-MRGNR-3232P12	H-MRGNL-3232P12	RNGN-120700	●	●	32	32	170	30	40	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	IRSN-45
H-MRGNR-3232R12	H-MRGNL-3232R12	RNGN-120700	○	○	40	40	200	30	50	IRSN-43	S-46M	CLM-12	STCM-4	TK-02791	NLM-46L	CLM-9	IRSN-45

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

*These toolholders are for hard turning  
with ceramic inserts  
using industry standard components.*

## Greenleaf Sales

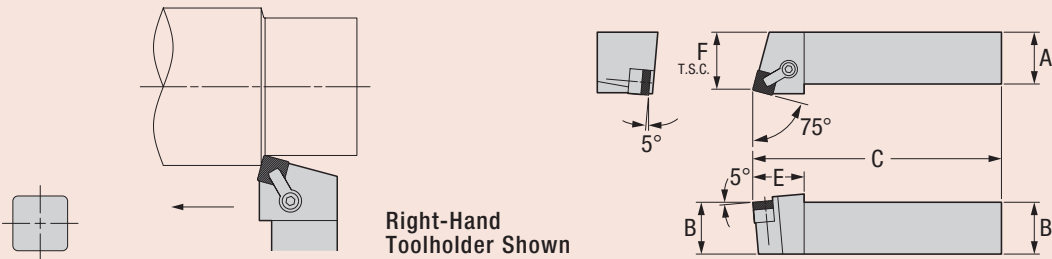
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# H-MSRNR/L

Style R  
Square  
Negative Rake  
75° Lead Angle



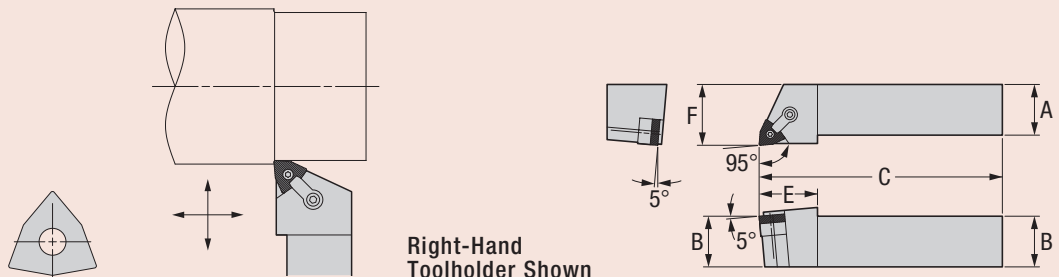
Right-Hand Toolholder Shown

Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit	Optional Components		
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components	Lock Pin	Clamp	7,92 Insert Shim Seat
H-MSRNR-2525M12	H-MSRNL-2525M12	SNGN-120408	○	○	25	25	150	31	28	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
H-MSRNR-2525P12	H-MSRNL-2525P12	SNGN-120408	○	○	25	25	170	31	28	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433
H-MSRNR-3232P12	H-MSRNL-3232P12	SNGN-120408	○	○	32	32	170	31	35	ISSN-453	S-46M	CLM-12	STCM-4	TK-02793	NLM-46L	CLM-9	ISSN-433

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# H-MWLNR/L

Style L  
Trigon  
Negative Rake  
95° Lead Angle



Right-Hand Toolholder Shown

Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
H-MWLNR-2020M06	H-MWLNL-2020M06	WNGA-060408	○	○	20	20	150	25	25	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
H-MWLNR-2525M06	H-MWLNL-2525M06	WNGA-060408	○	○	25	25	150	25	32	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
H-MWLNR-3232P06	H-MWLNL-3232P06	WNGA-060408	○	○	32	32	170	25	40	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
H-MWLNR-4040R06	H-MWLNL-4040R06	WNGA-060408	○	○	40	40	200	25	50	IWSN-322	NLM-34L	CLM-6	STCM-25	TK-02811
H-MWLNR-2020M08	H-MWLNL-2020M08	WNGA-080408	○	○	20	20	150	27	25	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812
H-MWLNR-2525M08	H-MWLNL-2525M08	WNGA-080408	○	○	25	25	150	27	32	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812
H-MWLNR-3232P08	H-MWLNL-3232P08	WNGA-080408	○	○	32	32	170	27	40	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812
H-MWLNR-4040R08	H-MWLNL-4040R08	WNGA-080408	○	○	40	40	200	27	50	IWSN-453	NLM-46L	CLM-20	STCM-26	TK-02812

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

**These toolholders are for hard turning with ceramic inserts using industry standard components.**

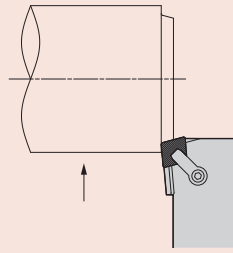
10 Business Days or Less

Stocked Standard

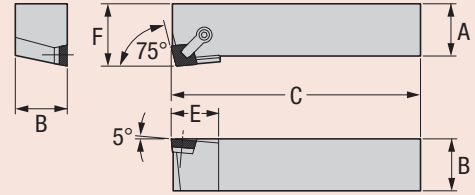
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# C-CCKPR/L

Style K  
80° Diamond (Using 100° Corner)  
Positive Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown

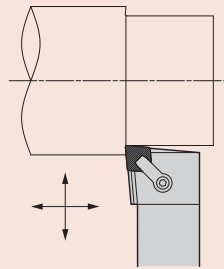


Part Number		Gage	Stock	Dimensions (millimeters)						Shim Seat	Seat Screw	Clamp	Clamp Screw	* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F					Includes All Standard Components
C-CCKPR-2525M12	C-CCKPL-2525M12	CPGN-120408	○	○	25	25	150	30	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCKPR-2525P12	C-CCKPL-2525P12	CPGN-120408	○	○	25	25	170	30	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCKPR-3232P12	C-CCKPL-3232P12	CPGN-120408	○	○	32	32	170	30	40	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779

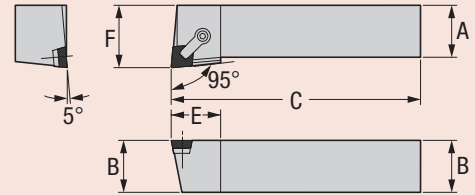
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CCLPR/L

Style L  
80° Diamond  
Positive Rake  
95° Lead Angle



Right-Hand  
Toolholder Shown

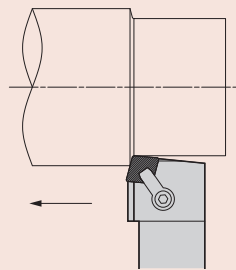


Part Number		Gage	Stock	Dimensions (millimeters)						Shim Seat	Seat Screw	Clamp	Clamp Screw	* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F					Includes All Standard Components
C-CCLPR-2525M12	C-CCLPL-2525M12	CPGN-120408	○	○	25	25	150	30	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCLPR-2525P12	C-CCLPL-2525P12	CPGN-120408	○	○	25	25	170	30	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCLPR-3232P12	C-CCLPL-3232P12	CPGN-120408	○	○	32	32	170	30	40	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779

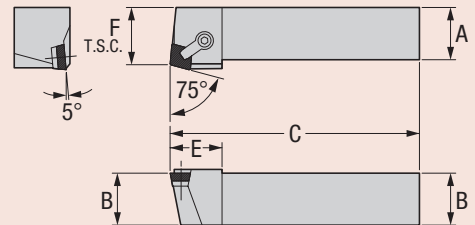
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CCRPR/L

Style R  
80° Diamond (Using 100° Corner)  
Positive Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown

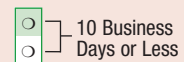
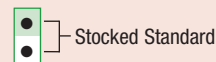


Part Number		Gage	Stock	Dimensions (millimeters)						Shim Seat	Seat Screw	Clamp	Clamp Screw	* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F					Includes All Standard Components
C-CCRPR-2525M12	C-CCRPL-2525M12	CPGN-120408	○	○	25	25	150	32	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCRPR-2525P12	C-CCRPL-2525P12	CPGN-120408	○	○	25	25	170	32	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCRPR-3232P12	C-CCRPL-3232P12	CPGN-120408	○	○	32	32	170	32	40	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

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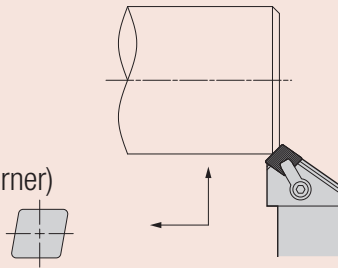


CERAMIC TOOLHOLDERS

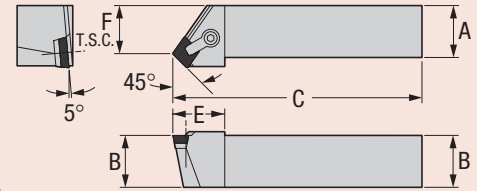


# C-CCSPR/L

Style S  
80° Diamond (Using 100° Corner)  
Positive Rake  
45° Lead Angle



Right-Hand Toolholder Shown

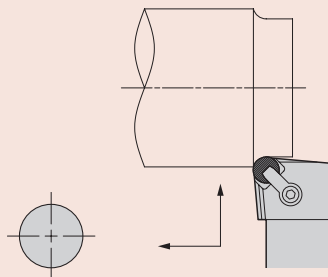


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CCSPR-2525M12	C-CCSPL-2525M12	CPGN-120408	○	○	25	25	150	32	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCSPR-2525P12	C-CCSPL-2525P12	CPGN-120408	○	○	25	25	170	32	32	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779
C-CCSPR-3232P12	C-CCSPL-3232P12	CPGN-120408	○	○	32	32	170	32	40	SP-49	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02779

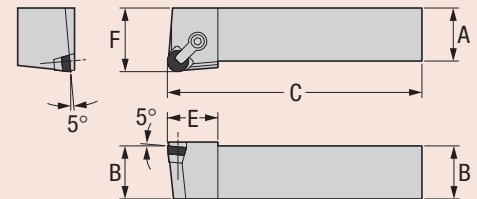
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CRGPR/L

Style G  
Round  
Positive Rake



Right-Hand Toolholder Shown



Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CRGPR-2525M09	C-CRGPL-2525M09	RPGN-090300	○	○	25	25	150	25	32	SP-34	TSHCS M2-0.4x6mm	CLM-7	STCM-25	TK-02813
C-CRGPR-2525P09	C-CRGPL-2525P09	RPGN-090300	○	○	25	25	170	25	32	SP-34	TSHCS M2-0.4x6mm	CLM-7	STCM-25	TK-02813
C-CRGPR-3232P09	C-CRGPL-3232P09	RPGN-090300	○	○	32	32	170	25	40	SP-34	TSHCS M2-0.4x6mm	CLM-7	STCM-25	TK-02813
C-CRGPR-2525M12	C-CRGPL-2525M12	RPGN-120400	○	○	25	25	150	30	32	SP-44	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02814
C-CRGPR-2525P12	C-CRGPL-2525P12	RPGN-120400	●	●	25	25	170	30	32	SP-44	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02814
C-CRGPR-3232P12	C-CRGPL-3232P12	RPGN-120400	●	●	32	32	170	30	40	SP-44	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02814
C-CRGPR-4040R12	C-CRGPL-4040R12	RPGN-120400	○	○	40	40	200	30	50	SP-44	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02814

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

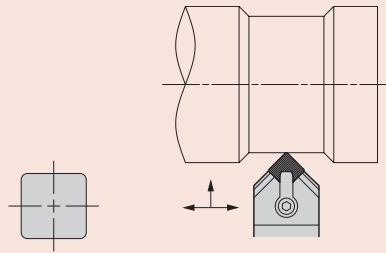
10 Business Days or Less

Stocked Standard

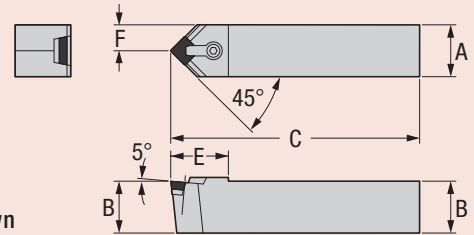
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# C-CSDPN

Style D  
Square  
Positive Rake  
45° Lead Angle



Neutral  
Toolholder Shown

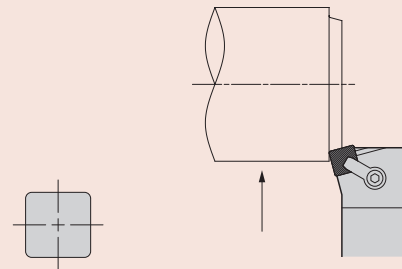


Part Number	Gage Insert	Stock	Dimensions (millimeters)					Standard Components				* Tune-Up Kit
			A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CSDPN-2525M12	SPGN-120408	○	25	25	150	35	12,5	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSDPN-2525P12	SPGN-120408	●	25	25	170	35	12,5	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSDPN-3232P12	SPGN-120408	●	32	32	170	35	16	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780

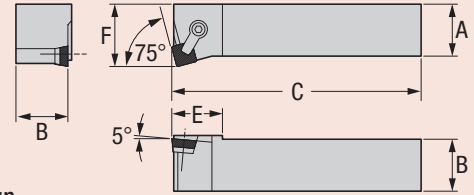
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CSKPR/L

Style K  
Square  
Positive Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown

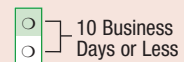
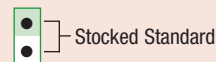


Part Number		Gage Insert	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left		R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CSKPR-2525M12	C-CSKPL-2525M12	SPGN-120408	○	○	25	25	150	31	32	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSKPR-2525P12	C-CSKPL-2525P12	SPGN-120408	○	○	25	25	170	31	32	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSKPR-3232P12	C-CSKPL-3232P12	SPGN-120408	○	○	32	32	170	31	40	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

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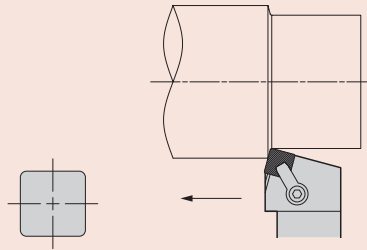
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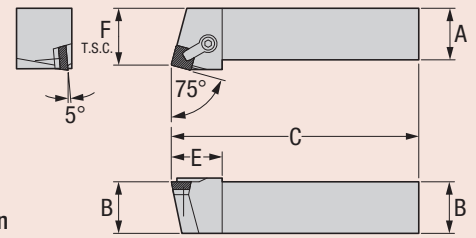
CERAMIC TOOLHOLDERS

# C-CSRPR/L

Style R  
Square  
Positive Rake  
75° Lead Angle



Right-Hand  
Toolholder Shown

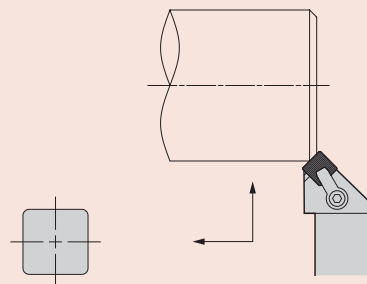


Part Number		Gage	Stock	Dimensions (millimeters)						Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CSRPR-2525M12	C-CSRPL-2525M12	SPGN-120408	○	○	25	25	150	31	28	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSRPR-2525P12	C-CSRPL-2525P12	SPGN-120408	○	○	25	25	170	31	28	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSRPR-3232P12	C-CSRPL-3232P12	SPGN-120408	○	○	32	32	170	31	35	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780

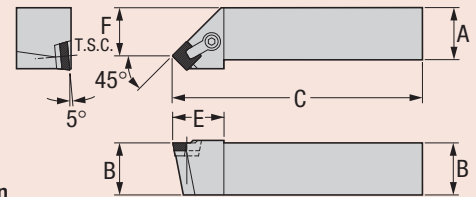
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CSSPR/L

Style S  
Square  
Positive Rake  
45° Lead



Right-Hand  
Toolholder Shown



Part Number		Gage	Stock	Dimensions (millimeters)						Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CSSPR-2525M12	C-CSSPL-2525M12	SPGN-120408	○	○	25	25	150	31	23	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSSPR-2525P12	C-CSSPL-2525P12	SPGN-120408	○	○	25	25	170	31	23	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780
C-CSSPR-3232P12	C-CSSPL-3232P12	SPGN-120408	○	○	32	32	170	31	29	SP-41	TFHCS M3-0.5x10mm	CLM-12	STCM-4	TK-02780

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

CERAMIC TOOLHOLDERS

10 Business Days or Less

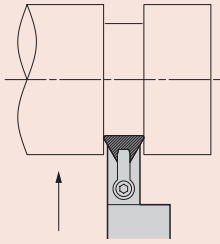
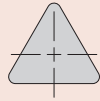
Stocked Standard

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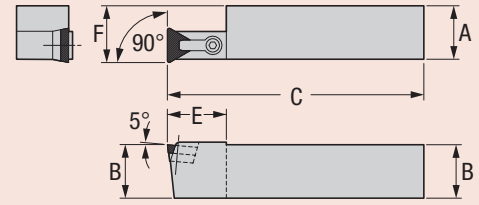


# C-CTCPR/L

Style C  
Triangle  
Positive Rake  
90° Lead Angle



Right-Hand  
Toolholder Shown

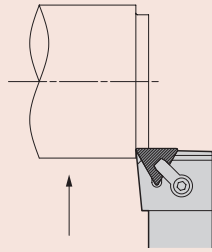
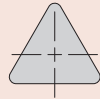


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CTCPR-2525M16	C-CTCPL-2525M16	TPGN-160308	○	○	25	25	150	29	26,2	SP3A	TFHCS M3-0.5x10mm	CLM-22	STCM-26	TK-02815
C-CTCPR-2525P16	C-CTCPL-2525P16	TPGN-160308	○	○	25	25	170	29	26,2	SP3A	TFHCS M3-0.5x10mm	CLM-22	STCM-26	TK-02815
C-CTCPR-3232P16	C-CTCPL-3232P16	TPGN-160308	○	○	32	32	170	29	33,2	SP3A	TFHCS M3-0.5x10mm	CLM-22	STCM-26	TK-02815
C-CTCPR-2525M22	C-CTCPL-2525M22	TPGN-220408	○	○	25	25	150	35	27	SP-4	TFHCS M3-0.5x12mm	CLM-30	STCM-4	TK-02816
C-CTCPR-2525P22	C-CTCPL-2525P22	TPGN-220408	○	○	25	25	170	35	27	SP-4	TFHCS M3-0.5x12mm	CLM-30	STCM-4	TK-02816
C-CTCPR-3232P22	C-CTCPL-3232P22	TPGN-220408	○	○	32	32	170	35	34	SP-4	TFHCS M3-0.5x12mm	CLM-30	STCM-4	TK-02816
C-CTCPR-4040R22	C-CTCPL-4040R22	TPGN-220408	○	○	40	40	200	35	42	SP-4	TFHCS M3-0.5x12mm	CLM-30	STCM-4	TK-02816

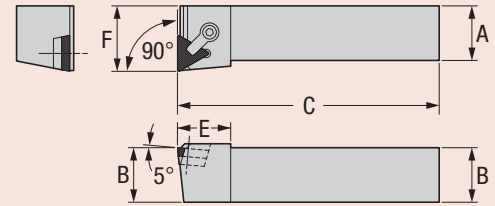
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CTFPR/L

Style F  
Triangle  
Positive Rake  
90° Lead Angle



Right-Hand  
Toolholder Shown

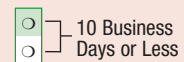
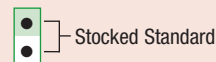


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CTFPR-2525M16	C-CTFPL-2525M16	TPGN-160308	○	○	25	25	150	24	32	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTFPR-2525P16	C-CTFPL-2525P16	TPGN-160308	○	○	25	25	170	24	32	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTFPR-3232P16	C-CTFPL-3232P16	TPGN-160308	○	○	32	32	170	24	40	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTFPR-2525M22	C-CTFPL-2525M22	TPGN-220408	○	○	25	25	150	31	32	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTFPR-2525P22	C-CTFPL-2525P22	TPGN-220408	○	○	25	25	170	31	32	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTFPR-3232P22	C-CTFPL-3232P22	TPGN-220408	○	○	32	32	170	31	40	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTFPR-4040R22	C-CTFPL-4040R22	TPGN-220408	○	○	40	40	200	31	50	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

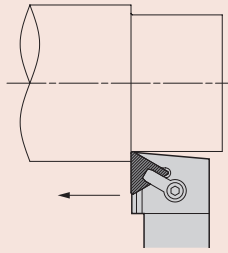
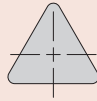
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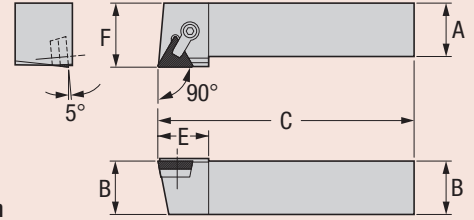


# C-CTGPR/L

Style G  
Triangle  
Positive Rake  
90° Lead Angle



Right-Hand  
Toolholder Shown

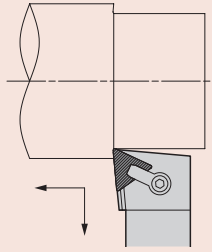


Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CTGPR-2525M16	C-CTGPL-2525M16	TPGN-160308	○	○	25	25	150	28	32	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTGPR-2525P16	C-CTGPL-2525P16	TPGN-160308	○	○	25	25	170	28	32	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTGPR-3232P16	C-CTGPL-3232P16	TPGN-160308	○	○	32	32	170	28	40	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTGPR-2525M22	C-CTGPL-2525M22	TPGN-220408	○	○	25	25	150	30	32	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTGPR-2525P22	C-CTGPL-2525P22	TPGN-220408	○	○	25	25	170	30	32	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTGPR-3232P22	C-CTGPL-3232P22	TPGN-220408	○	○	32	32	170	30	40	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTGPR-4040R22	C-CTGPL-4040R22	TPGN-220408	○	○	40	40	200	30	50	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818

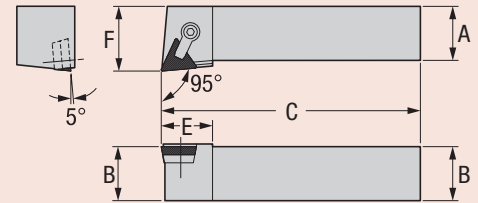
\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

# C-CTLPR/L

Style L  
Triangle  
Positive Rake  
95° Lead Angle



Right-Hand  
Toolholder Shown



Part Number		Gage	Stock		Dimensions (millimeters)					Standard Components				* Tune-Up Kit
Right	Left	Insert	R	L	A	B	C	E	F	Shim Seat	Seat Screw	Clamp	Clamp Screw	Includes All Standard Components
C-CTLPR-2525M16	C-CTLPL-2525M16	TPGN-160308	○	○	25	25	150	28	32	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTLPR-2525P16	C-CTLPL-2525P16	TPGN-160308	○	○	25	25	170	28	32	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTLPR-3232P16	C-CTLPL-3232P16	TPGN-160308	○	○	32	32	170	28	40	SP3A	TFHCS M3-0.5x10mm	CLM-7	STCM-25	TK-02817
C-CTLPR-2525M22	C-CTLPL-2525M22	TPGN-220408	○	○	25	25	150	30	32	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTLPR-2525P22	C-CTLPL-2525P22	TPGN-220408	○	○	25	25	170	30	32	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTLPR-3232P22	C-CTLPL-3232P22	TPGN-220408	○	○	32	32	170	30	40	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818
C-CTLPR-4040R22	C-CTLPL-4040R22	TPGN-220408	○	○	40	40	200	30	50	SP-4	TFHCS M3-0.5x12mm	CLM-12	STCM-4	TK-02818

\* Tune-Up Kits include one complete set of Standard Components to allow you to refurbish the toolholder.

10 Business Days or Less

Stocked Standard