

# CMT Vertical Mill-Thread



**Vertical milling indexable inserts and toolholders to perform a wide variety of threads, grooves, chamfers and more.**

## Advantages of CMT - Vertical Mill-Thread

- Ground profile inserts for high precision and excellent performance.
- Working at high machining parameters, with high surface quality.
- Solid and accurate clamping method enables full repeatability.
- Same insert for right-hand or left-hand threads.
- Toolholders include weldon shank and coolant bore.
- Chamfer inserts are also available.

### Contents:

### Page:

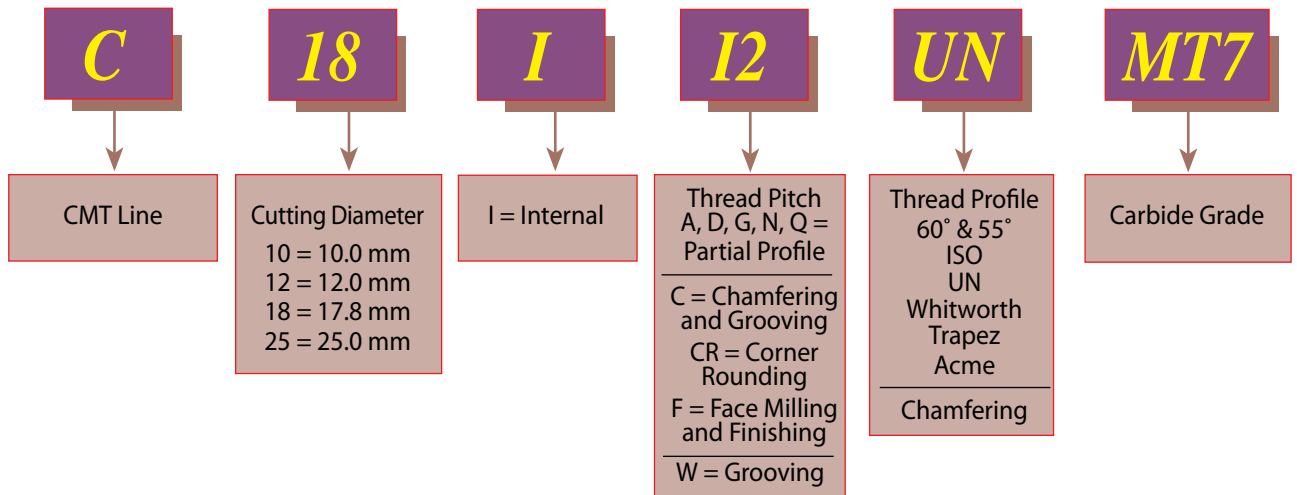
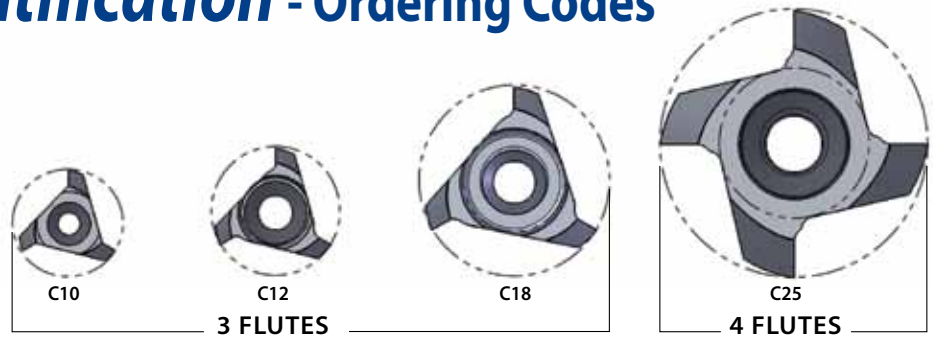
Product Identification	178-179
Partial Profile 60° - UN, ISO	180-181
Partial Profile 60° - NPT	181
Partial Profile 55° - BSW, BSF, BSP (G)	182
Full Profile - ISO	183-184
Full Profile - UN	185-186
G 55° - BSW, BSF, BSP (G)	187
Trapez - DIN 103	187
Acme	187
Chamfering and Grooving	188
Chamfering, Grooving and Boring	188
Groove Milling	189-190
Full Radius Groove Milling	191

### Contents:

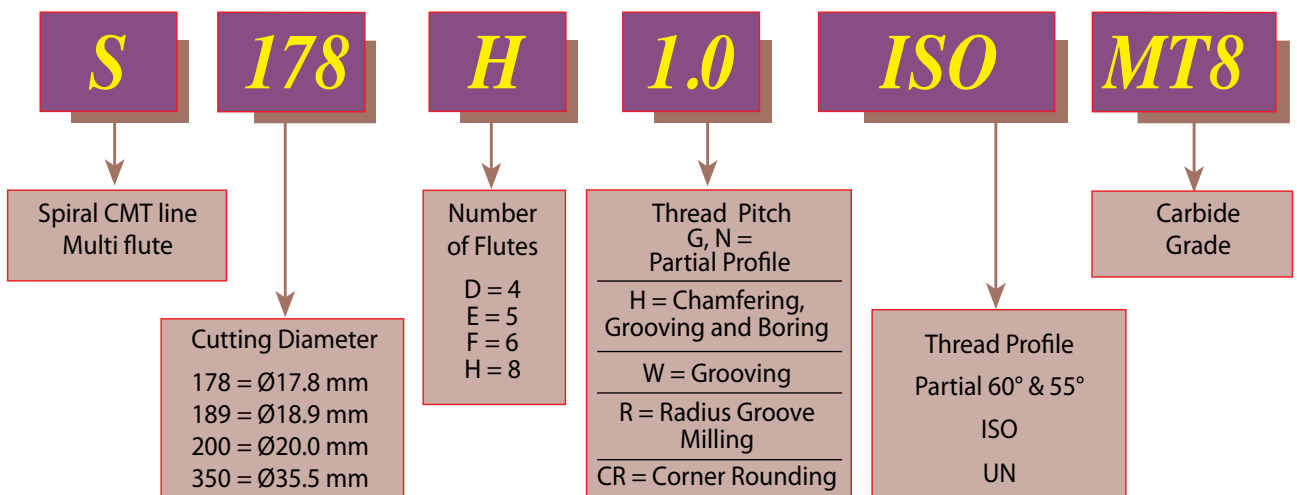
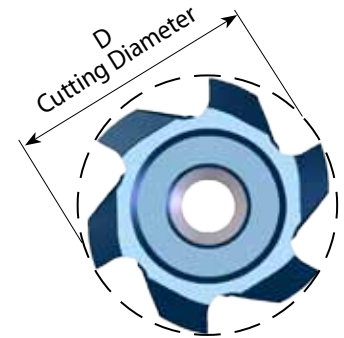
### Page:

Face Milling and Finishing	191
Corner Rounding	192
Steel Toolholders - with Coolant Bore	193
Carbide Shank Toolholders	194
CMT Multi insert Milling Cutters	195
Product Identification	196
Groove Milling	197
Groove Milling with Chamfer	198
Partial Profile 60° - ISO, UN	199
<b>Toolholders</b>	
Milling cutter- Arbor	200
Milling cutter- Weldon Shank	200
Milling cutter- Disc Milling	201

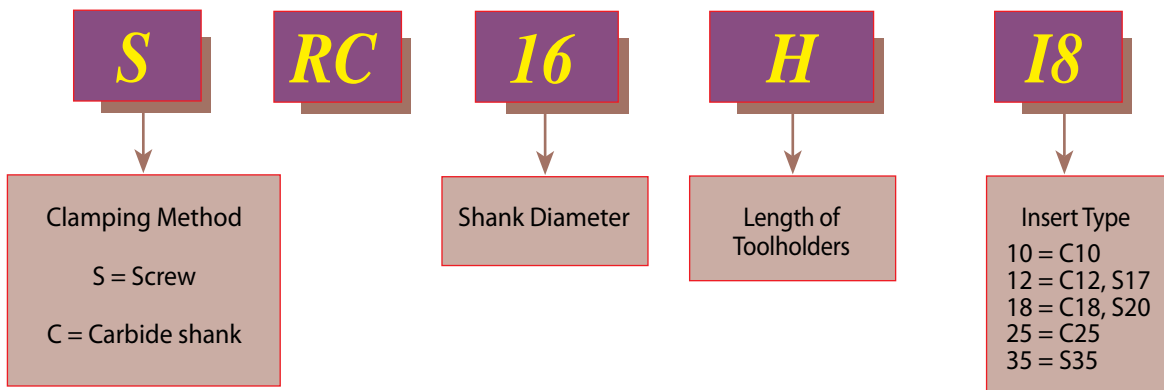
## Product Identification - Ordering Codes



## CMT Spiral Multi Flute Inserts

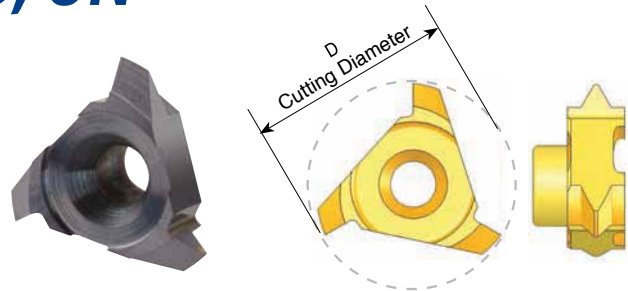


## *Product Identification* - Ordering Codes CMT Toolholders



## Partial Profile 60° - ISO, UN

Same insert for internal and external thread



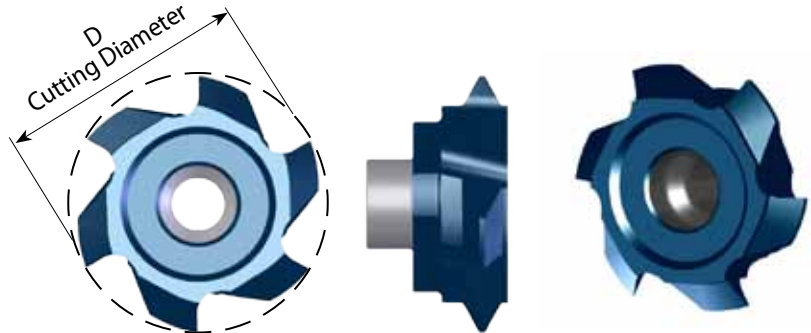
Insert Type	Pitch Range mm	Pitch Range TPI	Ordering Code	D	Thread Diameter (min)		Holder Code
					Pitch Low Range	Pitch High Range	
C10	Int. 0.5 - 0.8	56 - 28	<b>C10 A60</b>	10.0	$\emptyset \geq 11$	$\emptyset \geq 12$	H1, 2, 12, 13
	Ex. 0.4 - 0.8	64 - 32					
	Int. 1.0 - 2.0	28 - 13	<b>C10 G60</b>		$\emptyset \geq 12$	$\emptyset \geq 14$	
	Ex. 0.8 - 1.75	32 - 15					
C12	Int. 0.5 - 0.8	56 - 28	<b>C12 A60</b>	12.0	$\emptyset \geq 13$	$\emptyset \geq 14$	H3, 4, 5, 14, 15
	Ex. 0.4 - 0.8	64 - 32					
	Int. 1.0 - 2.0	28 - 13	<b>C12 G60</b>		$\emptyset \geq 14$	$\emptyset \geq 16$	
	Ex. 0.8 - 1.75	32 - 15					
C18	Int. 0.5 - 0.8	56 - 28	<b>C18 A60</b>	17.8	$\emptyset \geq 19$		H6, 7, 8, 9, 16
	Ex. 0.4 - 0.8	64 - 32					
	Int. 1.0 - 1.75	28 - 14	<b>C18 G60</b>		$\emptyset \geq 20$	$\emptyset \geq 21$	
	Ex. 0.8 - 1.5	32 - 16					
	Int. 2.0 - 3.0	13 - 8	<b>C18 D60</b>		$\emptyset \geq 21$	$\emptyset \geq 23$	
	Ex. 1.75 - 2.5	15 - 10					
C25	Int. 1.5 - 2.5	16 - 10	<b>C25 G60</b>	25.0	$\emptyset \geq 28$	$\emptyset \geq 30$	H10, 11, 17, 18
	Ex. 1.0 - 2.0	28 - 13					
	Int. 3.0 - 5.0	8 - 5	<b>C25 N60</b>		$\emptyset \geq 30$	$\emptyset \geq 34$	
	Ex. 2.5 - 4.5	10 - 6					
	Int. 5.0 - 6.0	5 - 4	<b>C25 Q60</b>		$\emptyset \geq 34$	$\emptyset \geq 35$	
	Ex. 4.5 - 5.0	6 - 5					

\* For complete toolholder description see pages 193 and 194

## Partial Profile 60° - ISO, UN

Same insert for internal and external thread

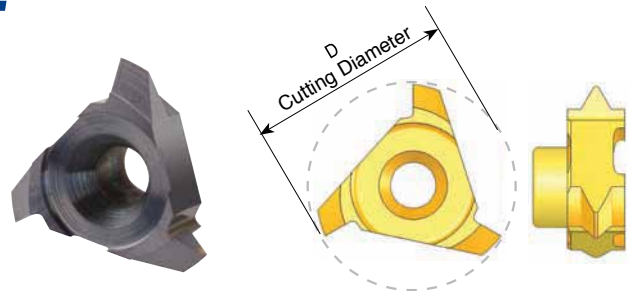
Multi Flute



Insert Type	Ordering Code	Pitch Range mm	Pitch Range TPI	D	No. of Flutes	Thread Dia (min)		Holder Code
						Pitch Low range	Pitch High range	
S20	<b>S200 F G60</b>	Int. 1.5-2.5	16-10	20.0	6	$\text{Ø} \geq 23$	$\text{Ø} \geq 25$	H6, 7, 8, 9, 16
		Ex. 1.0-2.0	28-13	20.0	6	$\text{Ø} \geq 23$	$\text{Ø} \geq 25$	
	<b>S200 D N60</b>	Int. 3.0-5.0	8- 5	20.0	4	$\text{Ø} \geq 25$	$\text{Ø} \geq 29$	H16
		Ex. 2.5-4.5	10-6	20.0	4	$\text{Ø} \geq 25$	$\text{Ø} \geq 29$	

## Partial Profile 60° - NPT

Same insert for internal and external thread

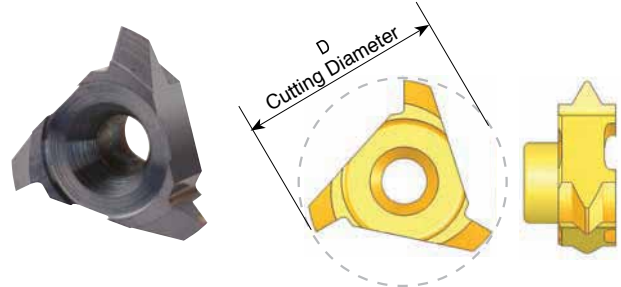


Insert Type	Pitch TPI	Standard	Ordering Code	D	Holder Code
C10	18	1/4 - 3/8	<b>C10 18 NPT</b>	10.0	H1, 2, 12
C18	14	1/2 - 3/4	<b>C18 14 NPT</b>	15.8	H16
C25	11.5	1-2	<b>C25 11.5NPT</b>	25.0	H10, 11, 17, 18
	8	$\geq 2 \frac{1}{2}$	<b>C25 8 NPT</b>	25.0	

\* For complete toolholder description see pages 193 and 194

## Partial Profile 55° - BSP(G), BSF, BSW

Same insert for internal and external thread

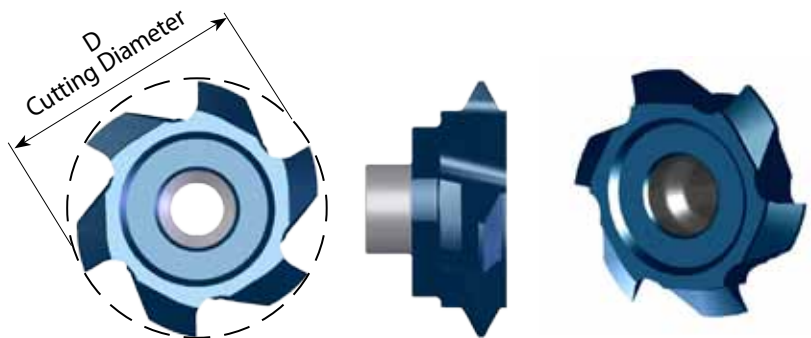


Insert Type	Pitch Range TPI	Ordering Code	D	Thread Dia. (min)	Holder Code
C10	19-14	<b>C10 G55</b>	10.0	$\text{Ø} \geq 13$	H1, 2, 12
C12	28-19	<b>C12 G55</b>	12.0	$\text{Ø} \geq 14$	H3, 4, 5, 14, 15
	14- 11	<b>C12 N55</b>	12.2	$\text{Ø} \geq 16$	H3, 4, 5, 14
C18	14- 8	<b>C18 G55</b>	18.0	$\text{Ø} \geq 23$	H6, 7, 8, 9, 16
C25	7- 5	<b>C25 N55</b>	25.0	$\text{Ø} \geq 31$	H10, 11, 17, 18

## Partial Profile 55° - BSP(G), BSF, BSW

Same insert for internal and external thread

Multi Flute

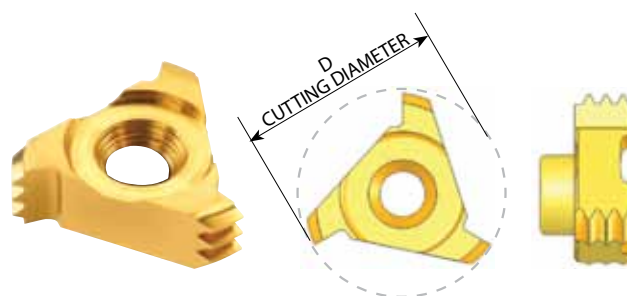


Insert Type	Ordering Code	Pitch Range TPI	D	No. of Flutes	Thread Dia (min)	Holder Code
S20	<b>S195 F G55</b>	14	19.5	6	$\text{Ø} \geq 23$	H6, 7, 8, 9, 16
	<b>S200 D N55</b>	8-6	20.0	4	$\text{Ø} \geq 25$	H16

\* For complete toolholder description see pages 193 and 194

## Full Profile - ISO

Inserts for internal thread



Insert Type	Pitch mm	M coarse	M fine	Ordering Code	Number of Teeth	D	Holder Code
C10	0.5		$\varnothing \geq 10$	<b>C10 I 0.5 ISO</b>	6	9.0	H1, 2, 12, 13
	1.0		$\varnothing \geq 12$	<b>C10 I 1.0 ISO</b>	3	10.0	
	1.5		$\varnothing \geq 13$	<b>C10 I 1.5 ISO</b>	2	10.0	
	1.75	M12	$\varnothing \geq 13$	<b>C10 I 1.75ISO</b>	1	9.6	H1, 2, 12
	2.0	M14	$\varnothing \geq 14$	<b>C10 I 2.0 ISO</b>	1	10.0	
C12	0.5		$\varnothing \geq 13$	<b>C12 I 0.5 ISO</b>	6	12.0	H3, 4, 5, 14, 15
	0.75		$\varnothing \geq 13$	<b>C12 I 0.75ISO</b>	4	12.0	
	1.0		$\varnothing \geq 14$	<b>C12 I 1.0 ISO</b>	3	12.0	
	1.5		$\varnothing \geq 15$	<b>C12 I 1.5 ISO</b>	2	12.0	
	2.0	M16	$\varnothing \geq 16$	<b>C12 I 2.0 ISO</b>	1	12.4	
	2.5	M18, M20	$\varnothing \geq 17$	<b>C12 I 2.5 ISO</b>	1	12.0	H3, 4, 5, 14
	3.0		$\varnothing \geq 17$	<b>C12 I 3.0 ISO</b>	1	12.4	
C18	0.5		$\varnothing \geq 19$	<b>C18 I 0.5 ISO</b>	9	17.8	H6, 7, 8, 9, 16
	0.75		$\varnothing \geq 19$	<b>C18 I 0.75ISO</b>	6	17.8	
	1.0		$\varnothing \geq 20$	<b>C18 I 1.0 ISO</b>	5	17.8	
	1.5		$\varnothing \geq 20$	<b>C18 I 1.5 ISO</b>	3	17.8	
	2.0		$\varnothing \geq 21$	<b>C18 I 2.0 ISO</b>	2	17.8	
	2.5	M22	$\varnothing \geq 22$	<b>C18 I 2.5 ISO</b>	2	17.8	
	3.0	M24, M27	$\varnothing \geq 23$	<b>C18 I 3.0 ISO</b>	1	17.8	
	3.5	M30, M33	$\varnothing \geq 24$	<b>C18 I 3.5 ISO</b>	1	17.8	
C25	3.0	M32, M33	$\varnothing \geq 30$	<b>C25 I 3.0 ISO</b>	2	25.0	H10, 11, 17, 18
	4.0	M36, M39	$\varnothing \geq 32$	<b>C25 I 4.0 ISO</b>	1	25.0	
	4.5	M45	$\varnothing \geq 33$	<b>C25 I 4.5 ISO</b>	1	25.0	
	5.0	M48, M52	$\varnothing \geq 34$	<b>C25 I 5.0 ISO</b>	1	25.0	
	5.5	M60	$\varnothing \geq 35$	<b>C25 I 5.5 ISO</b>	1	25.0	
	6.0	M64, M68	$\varnothing \geq 36$	<b>C25 I 6.0 ISO</b>	1	25.0	

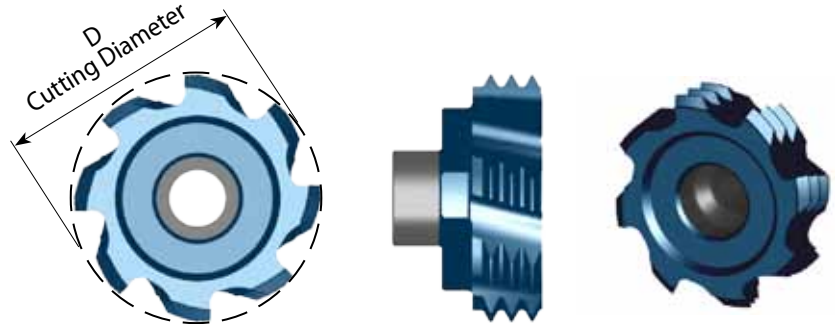
\* For complete toolholder description see pages 193 and 194



## Full Profile - ISO

Inserts for internal thread

Multi Flute



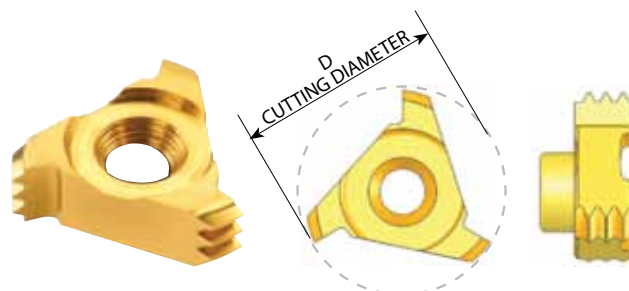
Insert Type	Ordering Code	Pitch mm	M coarse	M fine	Number of Teeth	D	No. of Flutes	Holder Code
S20	<b>S163 H 1.0 ISO</b>	1.0		$\text{Ø} \geq 18$	5	16.3	8	H6, 7, 8, 9, 16
	<b>S175 H 1.5 ISO</b>	1.5		$\text{Ø} \geq 20$	3	17.5	8	
	<b>S186 F 2.0 ISO</b>	2.0		$\text{Ø} \geq 22$	2	18.6	6	
S17	<b>S160 F 2.5 ISO</b>	2.5	M20	$\text{Ø} \geq 20$	1	16.0	6	H3, 4, 5, 14, 15
S20	<b>S178 F 2.5 ISO</b>	2.5	M22	$\text{Ø} \geq 22$	2	17.8	6	H6, 7, 8, 9, 16
	<b>S189 F 3.0 ISO</b>	3.0	M24, M27	$\text{Ø} \geq 24$	1	18.9	6	
	<b>S200 F 3.5 ISO</b>	3.5	M30, M33	$\text{Ø} \geq 26$	1	20.0	6	
	<b>S200 F 4.0 ISO</b>	4.0	M36, M39	$\text{Ø} \geq 27$	1	20.0	6	
	<b>S200 E 4.5 ISO</b>	4.5	M42, M45	$\text{Ø} \geq 28$	1	20.0	5	
	<b>S200 D 5.0 ISO</b>	5.0	M48, M52	$\text{Ø} \geq 29$	1	20.0	4	H16
S35	<b>S350 F 6.0 ISO</b>	6.0	M64, M68	$\text{Ø} \geq 46$	1	35.0	6	H19, 20, 21
	<b>S350 F 8.0 ISO</b>	8.0		$\text{Ø} \geq 50$	1	35.0	6	

\* For complete toolholder description see pages 193 and 194



## Full Profile - UN

Inserts for internal thread



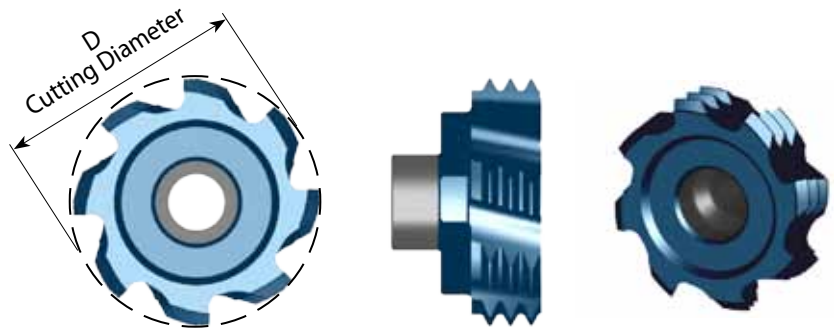
Insert Type	Pitch TPI	Nominal Size	UNC	UNF	UNEF	Ordering Code	Number of Teeth	D	Holder Code
C10	20			1/2		<b>C10 I 20 UN</b>	2	10.0	H1, 2, 12, 13
	18			9/16		<b>C10 I 18 UN</b>	2	10.0	
	13		1/2			<b>C10 I 13 UN</b>	1	10.0	H1, 2, 12
	12	5/8, 11/16, 3/4	9/16			<b>C10 I 12 UN</b>	1	10.0	
C12	32	9/16, 5/8				<b>C12 I 32 UN</b>	3	12.0	H3, 4, 5, 14, 15
	28	9/16, 5/8, 11/16				<b>C12 I 28 UN</b>	3	12.0	
	24				9/16, 5/8, 11/16	<b>C12 I 24 UN</b>	2	12.0	
	20	9/16, 5/8, 11/16			3/4	<b>C12 I 20 UN</b>	2	12.0	
	18			5/8		<b>C12 I 18 UN</b>	2	12.0	
	16	5/8, 11/16		3/4		<b>C12 I 16 UN</b>	1	12.0	
	11		5/8			<b>C12 I 11 UN</b>	1	12.0	H3, 4, 5, 14
	10		3/4			<b>C12 I 10 UN</b>	1	12.0	
C18	32	3/4, 13/16, 7/8				<b>C18 I 32 UN</b>	6	17.8	H6, 7, 8, 9, 16
	28	3/4, 13/16, 7/8				<b>C18 I 28 UN</b>	5	17.8	
	24					<b>C18 I 24 UN</b>	4	17.8	
	20	1 1/16, 1 1/8			13/16, 7/8, 15/16	<b>C18 I 20 UN</b>	3	17.8	
	18					<b>C18 I 18 UN</b>	3	17.8	
	16	7/8, 1				<b>C18 I 16 UN</b>	3	17.8	
	14			7/8		<b>C18 I 14 UN</b>	2	17.8	
	12	7/8		1, 1 1/8		<b>C18 I 12 UN</b>	2	17.8	
	11					<b>C18 I 11 UN</b>	2	17.8	
	9		7/8			<b>C18 I 9 UN</b>	1	17.8	
C25	8	1 3/16, 1 1/4, 1 5/16				<b>C25 I 8 UN</b>	2	25.0	H10, 11, 17, 18
	7		1 1/4			<b>C25 I 7 UN</b>	1	25.0	
	6	1 7/16, 1 9/16	1 3/8, 1 1/2			<b>C25 I 6 UN</b>	1	25.0	
	5		1 3/4			<b>C25 I 5 UN</b>	1	25.0	
	4		2 1/2, 2 3/4			<b>C25 I 4 UN</b>	1	25.0	

\* For complete toolholder description see pages 193 and 194

## Full Profile - UN

Inserts for internal thread

Multi Flute

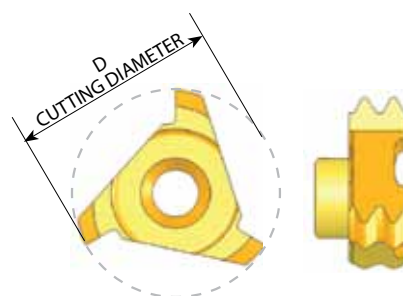


Insert Type	Ordering Code	Pitch TPI	Nominal size	UNC	UNF	UNEF	Number of Teeth	D	No. of Flutes	Holder Code
S20	<b>S160 H 24 UN</b>	24				11/16	4	16.0	8	H6, 7, 8, 9, 16
	<b>S169 H 20 UN</b>	20				3/4, 13/16, 7/8, 15/16, 1	4	16.9	8	
	<b>S164 F 16 UN</b>	16	7/8, 15/16, 1		3/4		3	16.4	6	
	<b>S191 F 14 UN</b>	14			7/8		2	19.1	6	
	<b>S186 F 12 UN</b>	12	7/8, 15/16		1		2	18.6	6	
	<b>S178 F 9 UN</b>	9		7/8			1	17.8	6	
	<b>S200 F 8 UN</b>	8	1 1/8	1			1	20.0	6	
	<b>S200 F 7 UN</b>	7		1 1/8, 1 1/4			1	20.0	6	
	<b>S200 E 6 UN</b>	6	1 7/16	1 3/8, 1 1/2			1	20.0	5	
	<b>S200 D 5 UN</b>	5		1 3/4			1	20.0	4	H16
S35	<b>S350 F 4 UN</b>	4		2 1/2, 2 3/4, 3			1	35.0	6	H19, 20, 21

\* For complete toolholder description see pages 193 and 194

## G 55° BSW, BSF, BSP

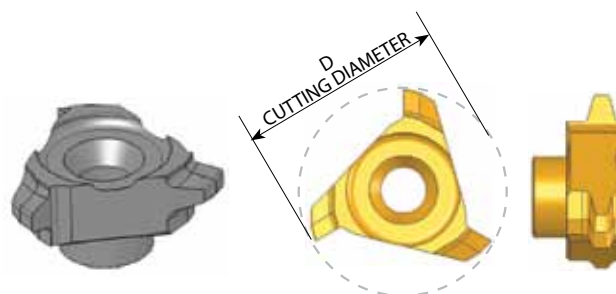
Same Insert for internal and external thread



Insert Type	Pitch TPI	Standard	Ordering Code	Number of Teeth	D	Holder Code
C10	19	G 1/4	<b>C10 19 W</b>	2	10.0	H1, 2, 12, 13
C12	19	G 3/8	<b>C12 19 W</b>	2	12.0	H3, 4, 5, 14, 15
C18	14	G 7/8	<b>C18 14 W</b>	2	17.8	H6, 7, 8, 9, 16
	11	G ≥ 1	<b>C18 11 W</b>	2	17.8	

## Trapez - DIN 103

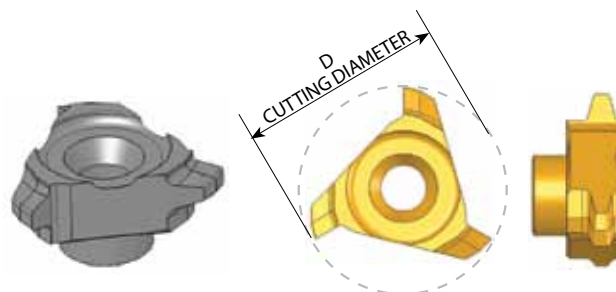
Inserts for internal thread



Insert Type	Pitch mm	Standard	Ordering Code	D	Holder Code
C10	2.0	Ø ≥ 16	<b>C10 I 2 TR</b>	10.0	H1, 2, 12,
C18	3.0	Ø ≥ 24	<b>C18 I 3 TR</b>	17.8	H6, 7, 8, 9, 16
	4.0	Ø ≥ 26	<b>C18 I 4 TR</b>	17.8	H16
	5.0	Ø ≥ 28	<b>C18 I 5 TR</b>	17.8	
C25	6.0	Ø ≥ 36	<b>C25 I 6 TR</b>	25.0	H10, 11, 17, 18

## Acme

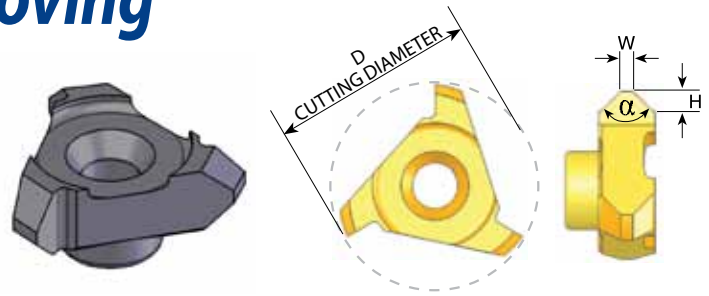
Inserts for internal thread



Insert Type	Pitch TPI	Standard	Ordering Code	D	Holder Code
C18	5	1 1/8, 1 1/4	<b>C18 I 5 ACME</b>	18.0	H16
C25	4	1 1/2, 1 3/4, 2	<b>C25 I 4 ACME</b>	25.0	H10, 11, 17, 18

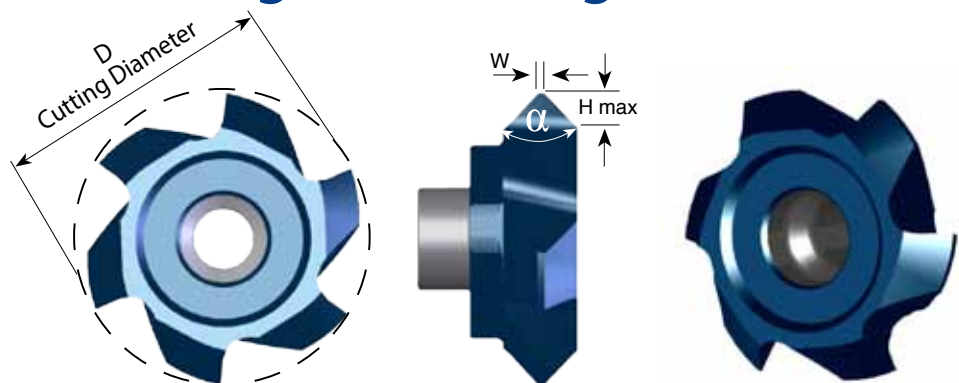
\* For complete toolholder description see pages 193 and 194

## Chamfering and Grooving



Insert Type	Ordering Code	D	H	W	α	Holder Code*
C10	<b>C10 C90</b>	10.0	1.30	0.4	90°	H1, 2, 12
C12	<b>C12 C90</b>	12.0	1.35	0.3	90°	H3, 4, 5, 14
C18	<b>C18 C90</b>	17.8	1.95	1.1	90°	H6, 7, 8, 9, 16
C25	<b>C25 C90</b>	25.0	2.50	1.0	90°	H10, 11, 17, 18

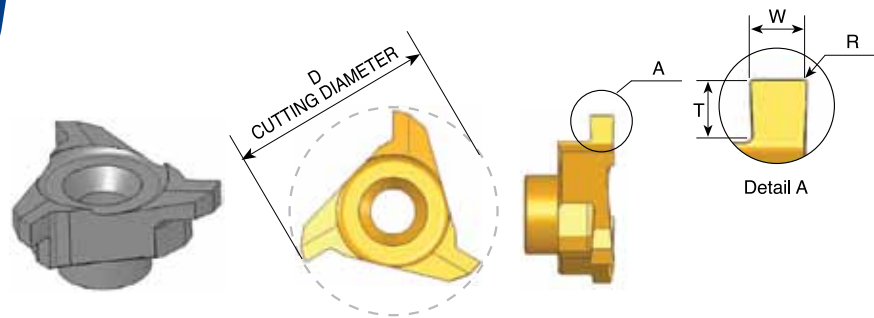
## Chamfering, Grooving and Boring Multi Flute



Insert Type	Ordering Code	D	H max	W	α	No. of Flutes	Holder Code
S17	<b>SC160 E H14</b>	16.0	1.35	0.2	90°	5	H3, 4, 5, 14, 15
S20	<b>SC170 E H14</b>	17.0	1.35	0.2	90°	5	H6, 7, 8, 9, 16
	<b>SC200 F H14</b>	20.0	1.35	0.2	90°	6	H6, 7, 8, 9, 16
	<b>SC200 F H24</b>	20.0	2.35	0.2	90°	6	
	S35	<b>SC350 F H42</b>	35.0	4.20	0.2	90°	6
S20	<b>SC200 F H20</b>	20.0	1.95	1.0	90°	6	H6, 7, 8, 9, 16
	<b>SC200 F H17</b>	20.0	1.70	1.5	90°	6	
	<b>SC200 F H15</b>	20.0	1.50	2.0	90°	6	
	<b>SC200 F H12</b>	20.0	1.20	2.5	90°	6	

\* For complete toolholder description see pages 193 and 194

## Groove Milling

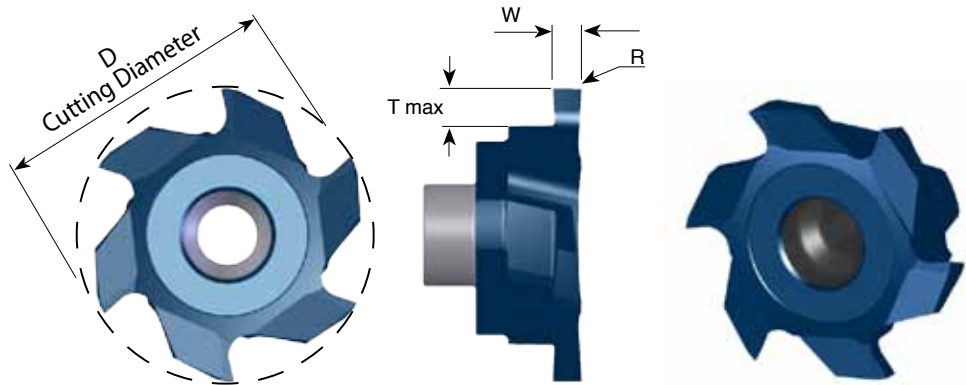


Insert Type	Ordering Code	D	W ±0.02	T max.	R	Groove Dia. (min.)	Holder Code
C10	<b>C10 W08</b>	10.0	0.80	0.80	0.1	Ø > 10.0	H1, 2, 12, 13
	<b>C10 W09</b>		0.90	0.90			
	<b>C10 W10</b>		1.00	0.90			
C12	<b>C12 W08</b>	12.0	0.80	0.80	0.1	Ø > 12.0	H3, 4, 5, 14, 15
	<b>C12 W10</b>		1.00	0.90			
C18	<b>C18 W10</b>	17.8	1.00	1.50	0.1	Ø > 17.8	H6, 7, 8, 9, 16
	<b>C18 W12</b>		1.20	1.50			
	<b>C18 W15</b>		1.50	1.95			
	<b>C18 W20</b>		2.00	2.80			H16
C25	<b>C25 W20</b>	25.0	2.00	3.00	0.2	Ø > 25	H10, 11, 17, 18
	<b>C25 W25</b>		2.50	3.00			
	<b>C25 W30</b>		3.00	3.00			
	<b>C25 W35</b>		3.50	3.50			
	<b>C25 W40</b>		4.00	3.50			
	<b>C25 W50</b>		5.00	3.50			

\* For complete toolholder description see pages 193 and 194

## Groove Milling

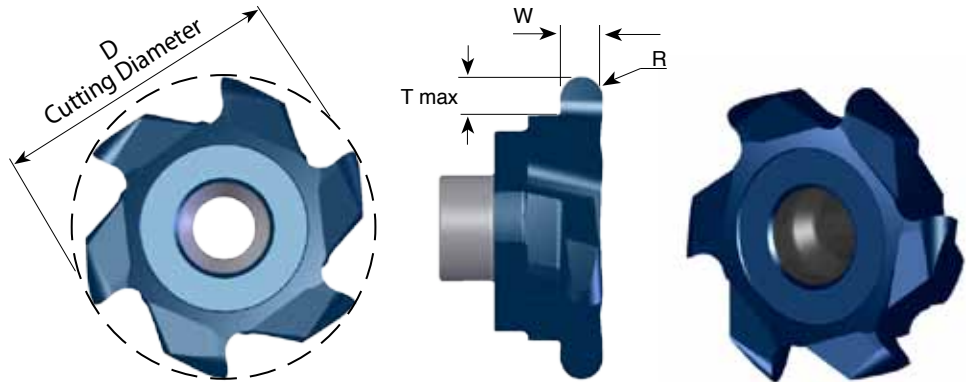
### Multi Flute



Insert Type	Ordering Code	D	W ±0.02	T Max.	R	Groove Dia. (min)	No. of Flutes	Holder Code
S17	<b>SG170 F W15</b>	17.0	1.5	2.8	0.2	Ø > 17	6	H3, 4, 5, 14, 15
	<b>SG170 F W20</b>	17.0	2.0					
	<b>SG170 F W25</b>	17.0	2.5					
S20	<b>SG200 F W15</b>	20.0	1.5	2.9	0.2	Ø > 20	6	H6, 7, 8, 9, 16
	<b>SG200 F W20</b>	20.0	2.0					
	<b>SG200 F W25</b>	20.0	2.5					
	<b>SG200 F W30</b>	20.0	3.0					
	<b>SG200 F W40</b>	20.0	4.0					
	<b>SG200 F W49</b>	20.0	4.9					
S20	<b>SG200 E W20T</b>	20.0	2.0	3.7	0.2	Ø > 20	5	H16
	<b>SG200 E W25T</b>	20.0	2.5					
	<b>SG200 E W30T</b>	20.0	3.0					
S35	<b>SG350 F W30T</b>	35.0	3.0	6.3	0.2	Ø > 35	6	H19, 20, 21
	<b>SG350 F W40T</b>	35.0	4.0					
	<b>SG350 F W50T</b>	35.0	5.0					
	<b>SG350 F W60T</b>	35.0	6.0					
	<b>SG350 F W80T</b>	35.0	8.0					

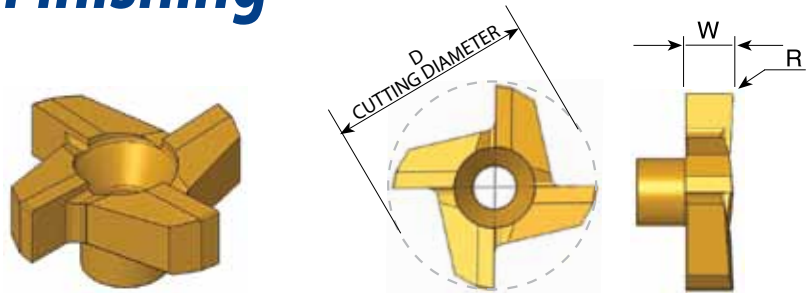
\* For complete toolholder description see pages 193 and 194

## Full Radius Groove Milling Multi Flute



Insert Type	Ordering Code	D	R	W ±0.02	T Max.	Groove Dia. (min)	No. of Flutes	Holder Code
S20	<b>SG200 F R10</b>	20.0	1.0	2.0	2.9	Ø > 20	6	H6, 7, 8, 9, 16
	<b>SG200 F R12</b>	20.0	1.2	2.4				
	<b>SG200 F R15</b>	20.0	1.5	3.0				
	<b>SG200 F R20</b>	20.0	2.0	4.0				

## Face Milling and Finishing

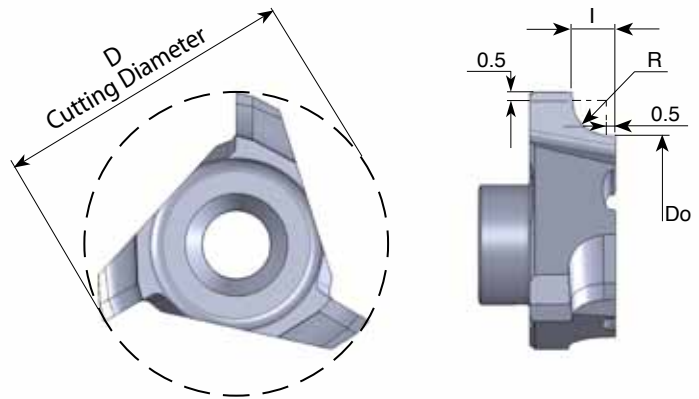


Insert Type	Ordering Code	D	W	R	Holder Code
C18	<b>C18 F R0.1</b>	17.8	5.0	0.1	H6, 7, 8, 9, 16
C25	<b>C25 F R0.2</b>	25.0	6.0	0.2	H10, 11, 17, 18

\* For complete toolholder description see pages 193 and 194

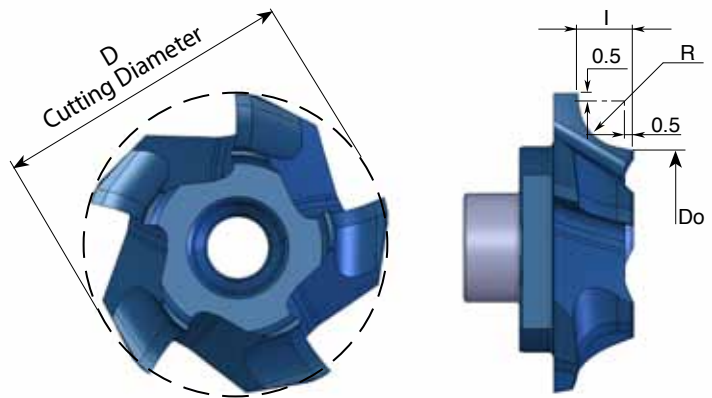


## Corner Rounding



Insert Type	Ordering Code	D	Do	R	I	Holder Code
C10	<b>C10 CR05</b>	10.0	7.9	0.5	1.05	H1, 2, 12, 13
	<b>C10 CR10</b>	10.0	6.9	1.0	1.55	
C18	<b>C18 CR13</b>	17.8	14.2	1.25	1.80	H6, 7, 8, 9, 16
	<b>C18 CR15</b>	17.8	13.7	1.5	2.05	
	<b>C18 CR20</b>	17.8	12.7	2.0	2.55	

## Corner Rounding Multi Flute

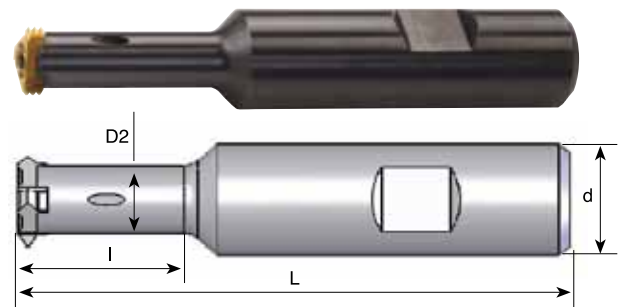


Insert Type	Ordering Code	D	Do	R	I	No. of Flutes	Holder Code
S17	<b>S170 E CR10</b>	17.0	13.9	1.0	1.55	5	H3, 4, 5, 14, 15
	<b>S170 E CR13</b>	17.0	13.4	1.25	1.80	5	
	<b>S170 E CR15</b>	17.0	12.9	1.5	2.05	5	

\* For complete toolholder description see pages 193 and 194

## Steel Toolholders

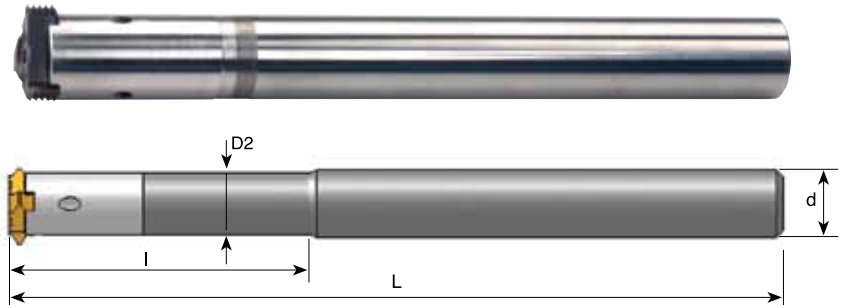
With internal coolant



Tool No.	Ordering Code	Insert Type	d	D2	l	L	Insert Screw	Torx Key
H1	<a href="#">SRC 1210 E</a>	C10	12	7.3	19	70	S5	K5
H2	<a href="#">SRC 1610 G</a>		16		19	90		
H3	<a href="#">SRC 1212 E</a>	C12, S17	12	9.0	25	70	S10	K10
H4	<a href="#">SRC 1612 G</a>		16		25	90		
H5	<a href="#">SRC 1612 H</a>		16		35	100		
H6	<a href="#">SRC 1618 H</a>	C18, S20	16	13.8	48	100	S16	K16
H7	<a href="#">SRC 2018 H</a>		20		32	100		
H8	<a href="#">SRC 2018 J</a>		20		48	110		
H9	<a href="#">SRC 2018 L</a>		20		74	140		
H10	<a href="#">SRC 2525 J</a>	C25	25	17.5	45	115	S27	K27
H11	<a href="#">SRC 2525 M</a>		25		80	150		
H19	<a href="#">SRC 2535 H</a>	S35	25	22	40	100	S33	K33
H20	<a href="#">SRC 2535 K</a>		25		60	130		

## Carbide Shank Toolholders

With internal coolant

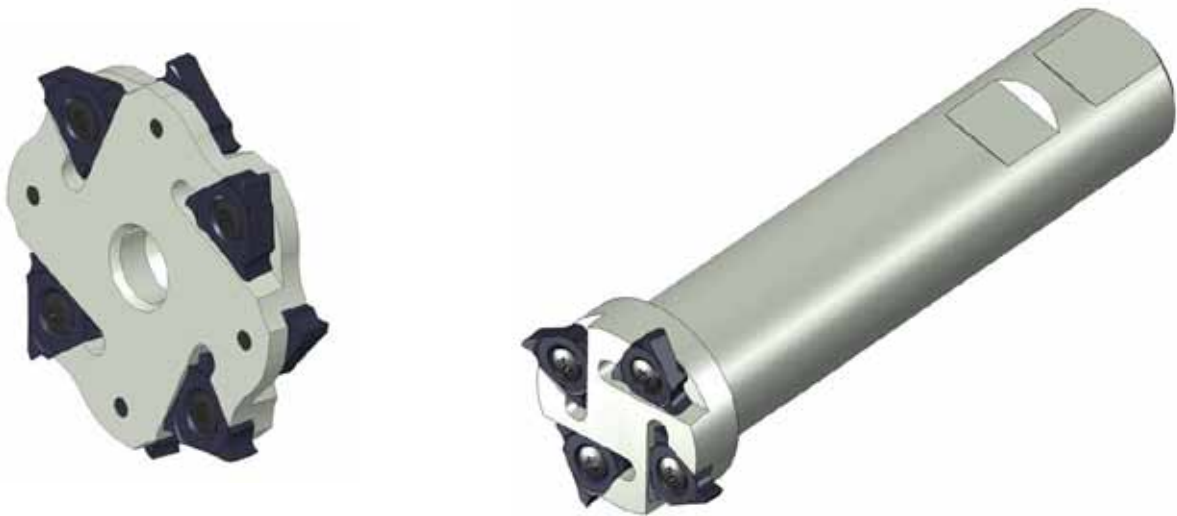


Tool No.	Ordering Code	Insert Type	d	D2	l	L	Insert Screw	Torx Key
H12	<b>CRC 0810 L35 K</b>	C10	8	7.3	35	125	S5	K5
H13	<b>CRC 0810 K</b>		8	8.0	—	125	S5	K5
H14	<b>CRC 1012 L40 M</b>	C12, S17	10	9.0	40	150	S10	K10
H15	<b>CRC 1012 M</b>		10	10.0	—	150	S10	K10
H16	<b>CRC 1218 P</b>	C18, S20	12	12.0	—	170	S16	K16
H17	<b>CRC 1625 R</b>	C25	16	16.0	—	205	S27	K27
H18	<b>CRC 2025 L85 S</b>		20	17.5	85	250	S27	K27
H21	<b>CRC 2035 S</b>	S35	20	22.0	—	260	S33	K33

Toolholders without Weldon

## CMT Multi Insert Milling Cutters

C.P.T. presents a new generation of CMT indexable milling inserts and cutters for Grooving, Chamfering and Threading



### Inserts

- Insert profiles are fully ground
- Spiral inserts for smooth cutting operation
- Three cutting edges on each insert
- For a wide range of materials and applications

Carbide grade: MT7

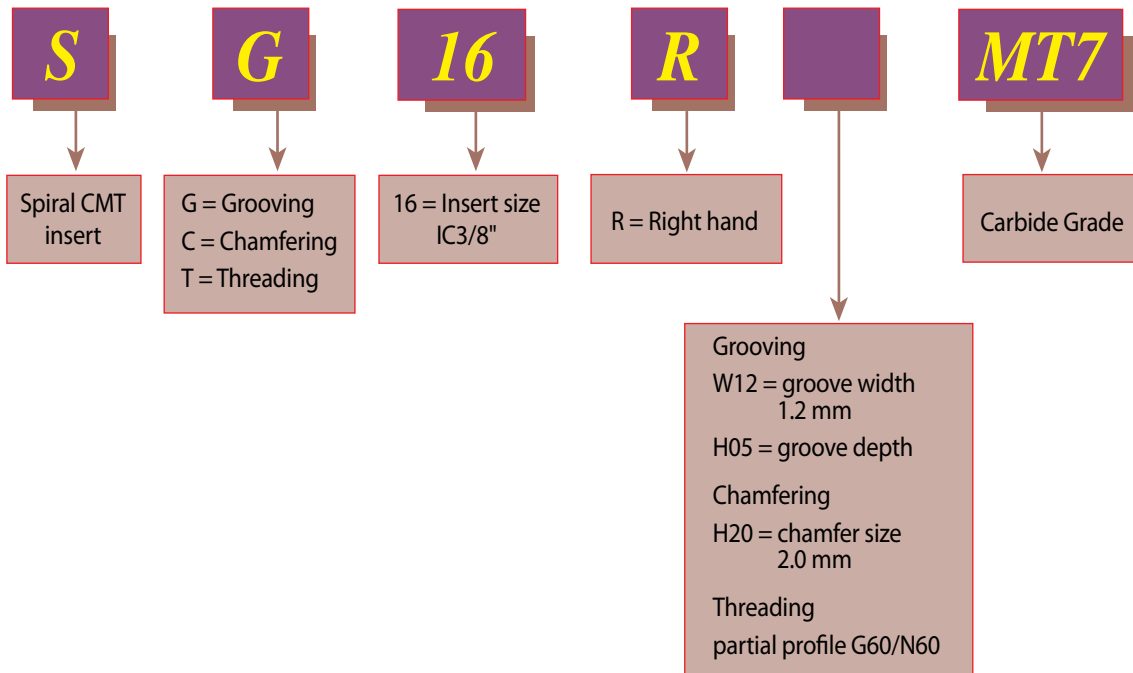


### Milling cutters / Disc milling cutter

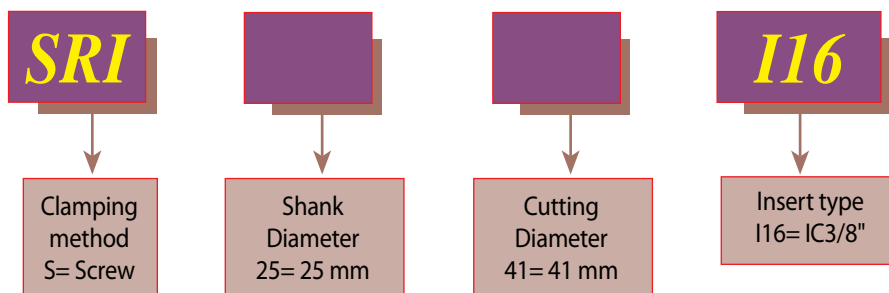
- 4 - 8 inserts per holder, for high productivity
- To use with C.P.T. standard CMT - S35 toolholders
- The milling cutters are coated with a special layer (silver color) for high Anti-corrosive resistance and extra protection against cutting burrs

## Product Identification - Ordering Codes

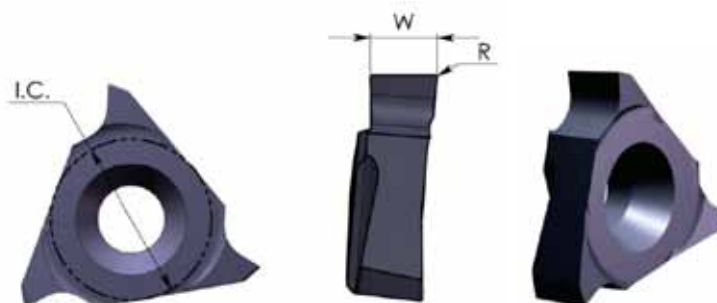
### Inserts



### Toolholders



## Groove Milling



### DIN 471 / 472

Insert Type	I.C.	Ordering Code	W	R	Holder Code
SI16	3/8"	<b>SG 16 R W14</b>	1.40	0.10	H22, H23
		<b>SG 16 R W17</b>	1.70	0.10	
		<b>SG 16 R W19</b>	1.95	0.15	
		<b>SG 16 R W22</b>	2.25	0.15	
		<b>SG 16 R W27</b>	2.75	0.20	
		<b>SG 16 R W32</b>	3.25	0.20	
		<b>SG 16 R W42</b>	4.25	0.20	
		<b>SG 16 R W43</b>	4.35	0.20	H22, H23, H24

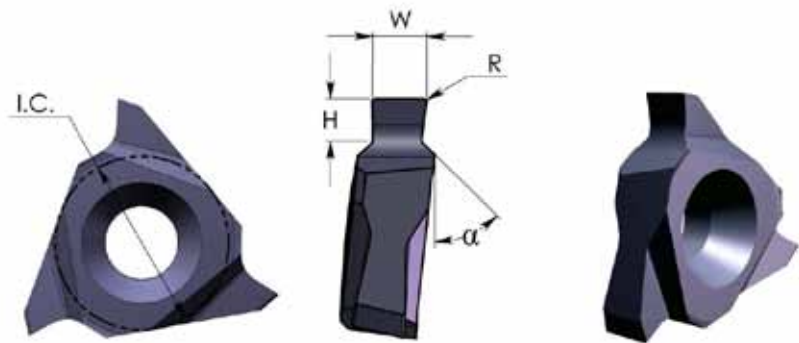
Right hand cutting

Insert Type	I.C.	Ordering Code	W	R	Holder Code
SI16	3/8"	<b>SG 16 L W43</b>	4.35	0.20	H24

Left hand cutting

\* Maximum groove depth (T max) according to the toolholder.

## Groove Milling with Chamfer

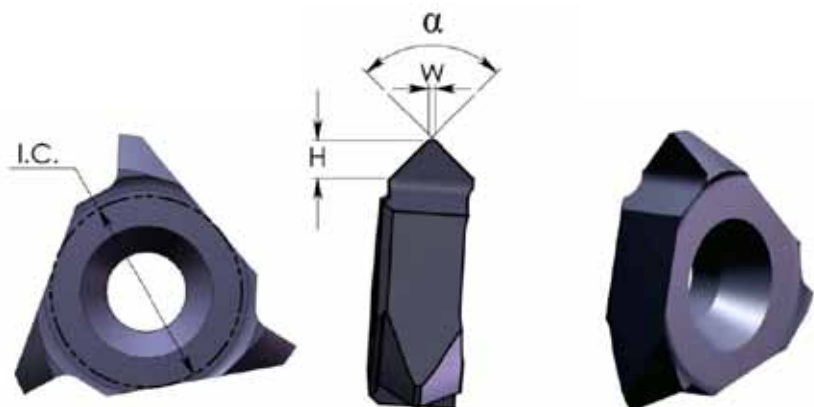


### DIN 471 / 472

Insert Type	I.C.	Ordering Code	W	H max	R	$\alpha$	Holder Code
SI16	3/8"	<b>SG 16 R W12 H05</b>	1.20	0.50	0.10	45°	H22, H23
		<b>SG 16 R W14 H07</b>	1.40	0.70			
		<b>SG 16 R W14 H08</b>	1.40	0.85			
		<b>SG 16 R W17 H08</b>	1.70	0.85			
		<b>SG 16 R W17 H10</b>	1.70	1.00			
		<b>SG 16 R W19 H12</b>	1.95	1.25	0.15		
		<b>SG 16 R W22 H15</b>	2.25	1.50			
		<b>SG 16 R W27 H15</b>	2.75	1.50			
		<b>SG 16 R W27 H17</b>	2.75	1.75			
		<b>SG 16 R W32 H17</b>	3.25	1.75			
		<b>SG 16 R W42 H20</b>	4.25	2.00			
		<b>SG 16 R W42 H25</b>	4.25	2.50			

Right hand cutting

## Chamfering



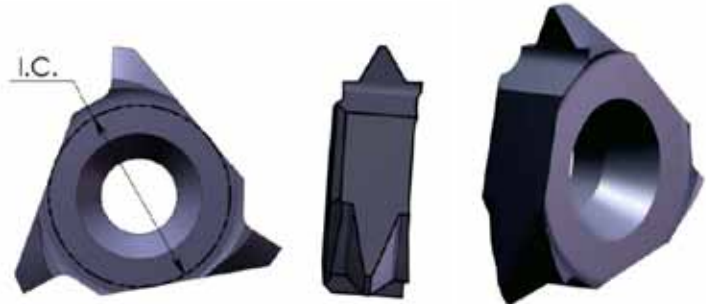
Insert Type	I.C.	Ordering Code	H max	W	$\alpha$	Holder Code
SI16	3/8"	<b>SC 16 R H20</b>	2.00	0.2	90°	H22, H23
		<b>SC 16 R H19</b>	1.90	0.5		

Maximum groove depth (T max) according to the toolholder.



## Partial Profile 60° - ISO, UN

Same Insert for internal and external thread

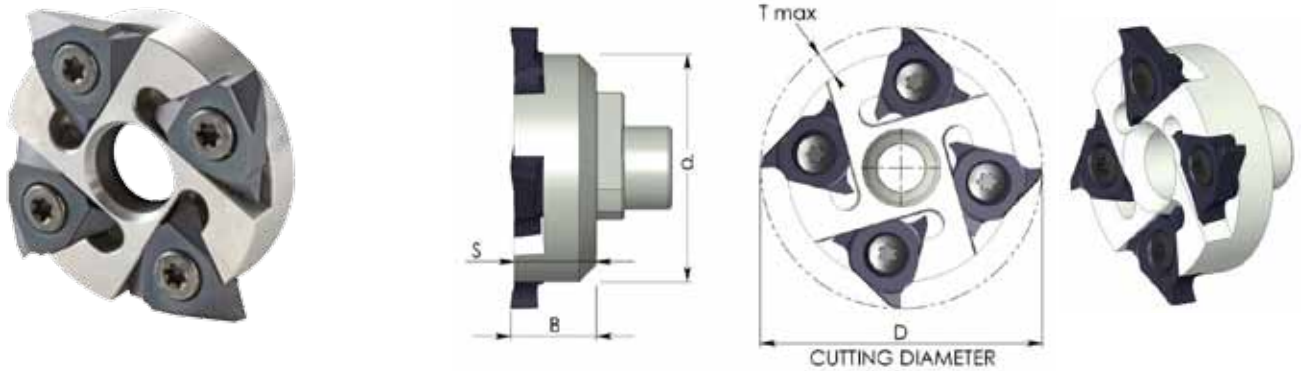


Insert Type	I.C.	Ordering Code	Pitch Range mm	Pitch Range TPI	Holder Code
SI16	3/8"	<b>ST 16 R G60</b>	1.5-3.0	16-8	H22, H23
		<b>ST 16 R N60</b>	3.5-5.0	7-5	

Right hand cutting

## Toolholders

### Milling Cutter- Arbor

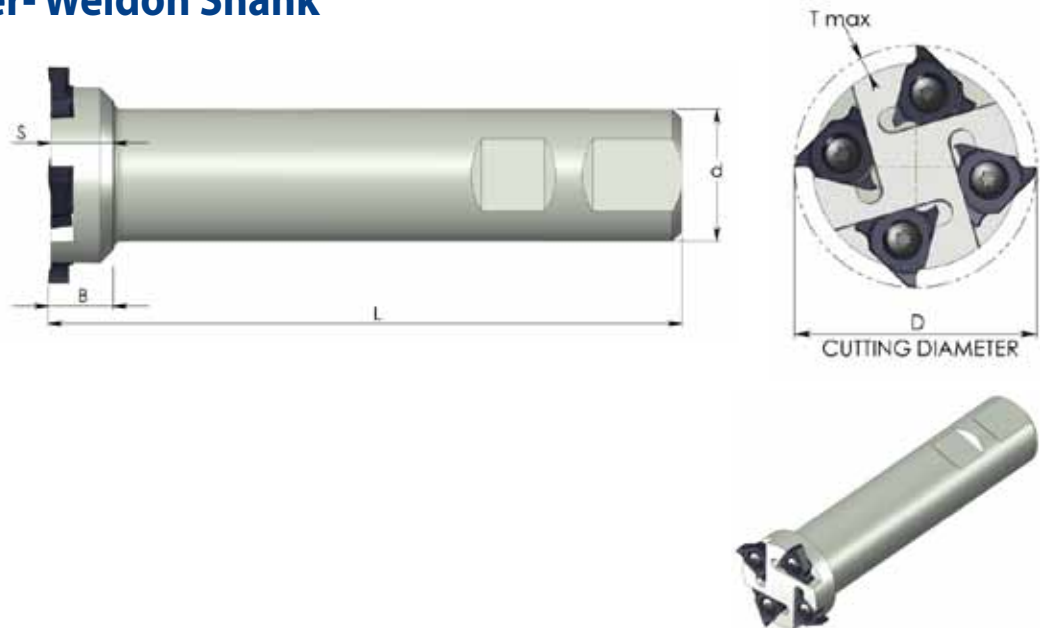


Tool No.	Ordering Code	Insert type	D	d	T max	B	S	Insert Screw	Torx Key
H22	<b>SRI 41- I16</b>	SI16	41	33.2	3.6	12.5	12.0	S16S	K16

Right hand cutting

To connect to the standard CMT toolholders S35: SRC 2535 H, SRC 2535 K, CRC 2035 S

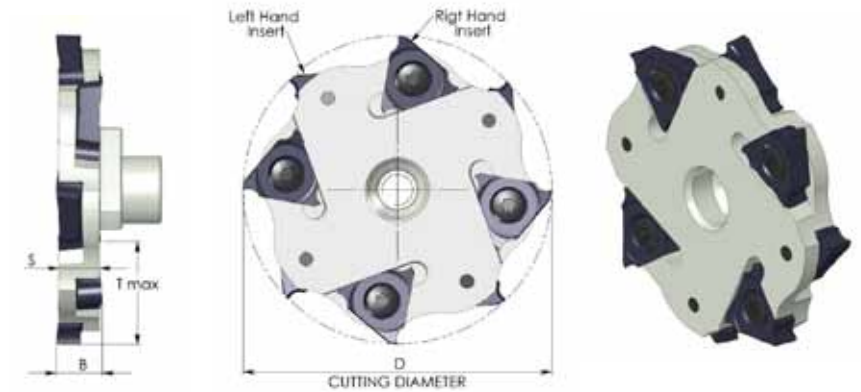
### Milling Cutter- Weldon Shank



Tool No.	Ordering Code	Insert type	D	d	T max	B	S	L	Insert Screw	Torx Key
H23	<b>SRI 2541-I16</b>	SI16	41	25	3.6	12.5	12.0	125	S16S	K16

Right hand cutting

## Mill Cutter - Disc Milling



Tool No.	Ordering Code	Insert type	D	T max	B	S	Insert Screw	Torx Key
H24	<b>SRI 55-I16</b>	SI16	55	15.5	8.2	7.2	S16M	K16

Right hand cutting

To use only with inserts SG 16 R W43, and SG 16 L W43

To connect to the standard CMT toolholders S35: SRC 2535 H, SRC 2535 K, CRC 2035 S

