

D

THREADING


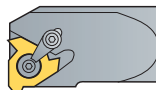
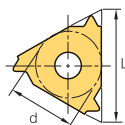
Korloy threading tools are available for machining various shapes of thread at various pitches while ensuring high quality performances



D Threading Code System

Threading holder code system

1	2	3	4	5	6	7
E	R	H	10	(N)	- 11	(C)
Holder type	Hand of insert	Name	Height of shank	Shim	Insert size (mm)	Clamping system

1 Holder type E R H 10 (N) - 11 (C) E: For External I: For Internal	4 Height of shank E R H 10 (N) - 11 (C)  - External 8, 10, 12, 16, 20, 25, 32, 40, 50  - Internal 10, 12, 13, 16, 20, 25, 32, 49, 50, 60 *Refer to the specification for shank diameter information	6 Insert size (mm) E R H 10 (N) - 11 (C) 11: d = 6.35 16: d = 9.525 22: d = 12.7 27: d = 15.875 
2 Hand of insert E R H 10 (N) - 11 (C) R: Right handed L: Left handed	5 Shim E R H 10 (N) - 11 (C) No code: Shim required N: No shim required	7 Clamping system E R H 10 (N) - 11 (C) No code: Screw on system C: Clamp on system
3 Name E R H 10 (N) - 11 (C) H: Holder		

Threading insert code system

E	R	M	16	-	1.5	ISO
1	2	3	4	5	6	
Insert type	Hand of insert	Chip breaker	Insert size (mm)	Pitch	Type	

1

Insert type

E R M 16 - 1.5 ISO

E: External thread I: Internal thread

2

Hand of insert

E R M 16 - 1.5 ISO

R: Right handed L: Left handed

3

Chip breaker

E R M 16 - 1.5 ISO

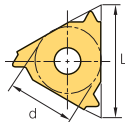
M: With chip breaker

4


Insert size (mm)


E R M 16 - 1.5 ISO

11: d = 6.35
16: d = 9.525
22: d = 12.7
27: d = 15.875



Insert shape

 < ER/IR >

 < ERM/IRM >

5

Pitch

E R M 16 - 1.5 ISO

Full profile		Partial profile	
mm	tpi	mm	tpi
0.35-6.0	72-3	A 0.5-1.5	48-16
		AG 0.5-3.0	48-8
		G 1.75-3.0	14-8
		N 3.5-5.0	7-5
		Q 5.5-6.0	4.5-4

6

Type

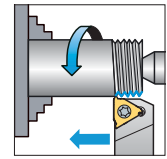
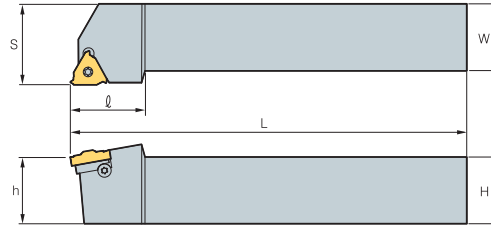
E R M 16 - 1.5 ISO

Partial profile 60°
Partial Profile 55°
ISO Metric (Full Profile)
American UN (Full Profile) UN, UNC, UNF, UNEF
Whitworth (Full Profile) BSW, BSF, BSP
British Standard Pipe thread (Full Profile) BSPT
National Pipe Thread (Full Profile) NPT
National Pipe Threads-Dryseal (Full Profile) NPTF
Round DIN 405
Trapez DIN 103
American ACME
Stub ACME
UNJ
American Buttress
British Buttress
Metric Buttress-Sagengewinde
API
API Buttress Casing
API Round Casing & Tubing
EL-Extreme Line Casing



ER(L)H

(Screw on system)



Righthand drawing

(mm)

Designation	Inscribed circle	H	W	L	S	H	ℓ	Insert screw	Shim screw	Screw RH	Screw LH	Wrench
ER(L)H												
08N-11	6.35	8	8	136.4	11	8	17.5					
10N-11	6.35	10	10	70.0	11	10	17.5	ST11N	-	-	-	TW08P
12N-11	6.35	12	12	80.0	12	12	17.5					
12N-16	9.525	12	12	83.2	16	12	22	ST16N	-	-	-	TW10P
09-16	9.525	9.52	9.52	63.6	16	9.52	20.5					
12-16	9.525	12	12	83.2	16	12	22					
16-16	9.525	16	16	100.0	16	16	20.5	ST16	STA16	ATE16	ATI22	TW10P
20-16	9.525	20	20	128.6	20	20	30					
25-16	9.525	25	25	153.6	25	25	30					
32-16	9.525	32	32	173.6	32	32	30					
25-22	12.7	25	25	155.7	25	25	36					
32-22	12.7	32	32	175.7	32	32	36	ST22	STA22	ATE22	ATI22	TW20P
40-22	12.7	40	40	205.7	40	40	36					
25-27	15.875	25	25	151.6	32	25	35					
32-27	15.875	32	32	176.6	32	32	40	ST27	STA27	ATE27	ATI27	TW25L
40-27	15.875	40	40	206.6	40	40	40					
50-27	15.875	50	50	256.6	50	50	40					

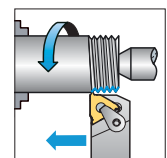
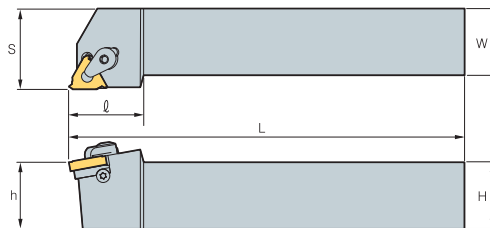
➡ Applicable inserts D10~D13, D16, D18, D19, D22, D23~D26

• Helix angle is 1.5° for all holders

• No shim needed for N type holder

ER(L)H-C

(Clamp on system)



Righthand drawing

(mm)

Designation	Inscribed circle	H	W	L	S	H	ℓ	Shim screw	Clamp	Screw RH	Screw LH	Wrench
ER(L)H												
20-16C	9.525	20	20	128.6	20	20	30					
25-16C	9.525	25	25	153.6	25	25	30	STA16	CTH16	ATE16	ATI16	TW10P
32-16C	9.525	32	32	173.6	32	32	30					TW15P
25-22C	12.7	25	25	155.7	25	25	36					
32-22C	12.7	32	32	175.7	32	32	36	STA22	CTH22	ATE22	ATI22	TW20P
40-22C	12.7	40	40	205.7	40	40	36					
25-27C	15.875	25	25	151.6	25	25	35					
32-27C	15.875	32	32	176.6	32	32	40	STA27	CTH27	ATE27	ATI27	TW25L
40-27C	15.875	40	40	206.6	40	40	40					
50-27C	15.875	50	50	256.6	50	50	40					

➡ Applicable inserts D10~D13, D16, D18, D19, D22, D23~D26

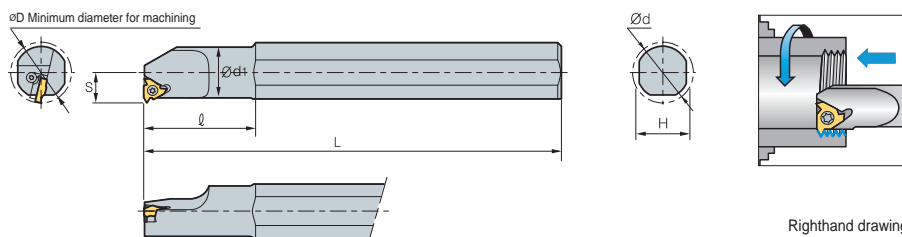
• Helix angle is 1.5° for all holders

Threading








D

IR(L)H (Screw on system)



Righthand drawing

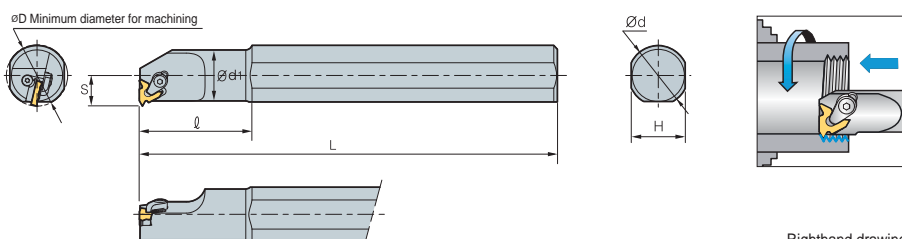
(mm)

Designation		Inscribed circle	ØD	Ød	Ød ₁	H	L	S	ℓ	Insert screw 	Shim screw 	Screw RH 	Screw LH 	Wrench 
IR(L)H	10DN-11	6.35	13	10	10.0	9.5	100	7.3	-	ST11N	-	-	-	TW08P
	10N-11	6.35	13	20	10.0	18.0	180	7.3	25					
	13N-11	6.35	16	20	13.0	18.0	180	8.9	32					
	13N-16	9.525	17	20	12.7	18.0	180	10.3	32	ST16N	-	-	-	TW10P
	16N-16	9.525	20	20	16.0	18.0	180	11.5	40					
	16DN-16	9.525	20	16	16.0	15.2	150	11.3	32					
	20-16	9.525	24	20	20.0	18.0	180	13.4	40	ST16	STA16	ATI16	ATE16	TW10P
	25-16	9.525	29	32	25.0	29.0	250	16.3	60					
	25D-16	9.525	29	25	24.5	22.6	200	16.1	45					
	32-16	9.525	36	32	32.0	29.0	250	19.6	60					
	40-16	9.525	44	40	40.0	36.0	300	23.8	60					
	20N-22	12.7	27	20	20.0	18.0	180	15.6	50	ST22N	-	-	-	TW20P
	25-22	12.7	32	32	25.0	29.0	250	17.4	60	ST22	STA22	ATI22	ATE22	TW20P
	25D-22	12.7	32	25	24.6	22.6	200	17.2	45					
	32-22	12.7	39	32	32.0	29.0	250	21.5	60					
	40-22	12.7	47	40	40.0	36.0	300	25.8	60					
	32-27	15.875	40	32	32.0	29.0	250	22.4	60	ST27	STA27	ATI27	ATE27	TW25L
	40-27	15.875	48	40	40.0	36.0	300	26.4	60					
	50-27	15.875	58	50	50.0	45.0	350	31.4	75					
	60-27	15.875	69	60	60.0	54.0	400	36.4	75					

➔ Applicable inserts D10, D11, D14, D15, D17, D20~D25, D27~D30






• Helix angle is 1.5° for all holders • No shim needed for N type holder

IR(L)H-C (Clamp on system)



Righthand drawing

(mm)

Designation		Inscribed circle	ØD	Ød	Ød ₁	H	L	S	ℓ	Shim screw 	Clamp 	Screw RH 	Screw LH 	Wrench 
IR(L)H	20-16C	9.525	24	20	20.0	18.0	180	13.4	50	STA16	CTH16	ATI16	ATE16	TW10P TW15P
	25-16C	9.525	29	32	25.0	28.0	250	16.3	60					
	25D-16C	9.525	29	25	24.6	22.6	200	16.1	45					
	32-16C	9.525	36	32	32.0	29.0	250	19.6	60					
	40-16C	9.525	44	40	40.0	36.0	300	23.8	60					
	25-22C	12.7	32	32	25.0	29.0	250	17.4	60	STA22	CTH22	ATI22	ATE22	TW20P
	25D-22C	12.7	32	25	24.6	22.6	200	17.2	45					
	32-22C	12.7	39	32	32.0	29.0	250	21.5	60					
	40-22C	12.7	47	40	40.0	36.0	300	25.8	60					
	32-27C	15.875	40	32	32.0	29.0	250	22.4	60					
	40-27C	15.875	48	40	40.0	36.0	300	26.4	60	STA27	CTH27	ATI27	ATE27	TW25L
	50-27C	15.875	58	50	50.0	45.0	350	31.4	75					
60-27C	15.875	69	60	60.5	54.0	400	36.4	75						

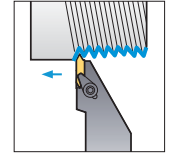
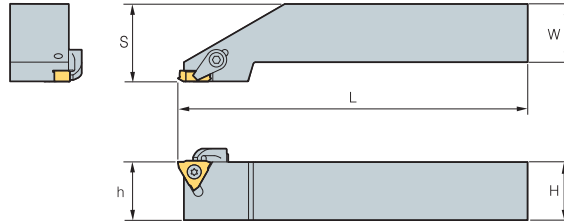
➔ Applicable inserts D10, D11, D14, D15, D17, D20~D25, D27~D30

• Helix angle is 1.5° for all holders

VTH



VETR



Righthand drawing
(mm)

Designation	H = (h)	W	L	S	Insert	Clamp	Clamp screw	Screw	Wrench
VTH 2020R	20	20	125	26.4	VETR	CS6R1	DHA0617	FTKA03510	TW15P, HW30L
2525R	25	25	150	33.4					
3225R	32	25	170	33.4					

Vertical type thread insert

Picture	Designation	Cermet	Uncoated	Dimensions			Configuration
		CN20	ST10	Pitch (mm)	θ	f	
	VETR 080			0.8	60°	1.4	 d: 9.525 t: 4.76
	100		●	1.0	60°	1.4	
	125			1.25	60°	1.4	
	150		●	1.5	60°	1.2	
	175			1.75	60°	1.2	
	200		●	2.0	60°	1.2	
	250			2.5	60°	1.4	
	300		●	3.0	60°	1.6	
	150F	●	●	0.8~1.5	60°	1.4	
	300F	●	●	1.5~3.0	60°	1.6	

● : Stock item