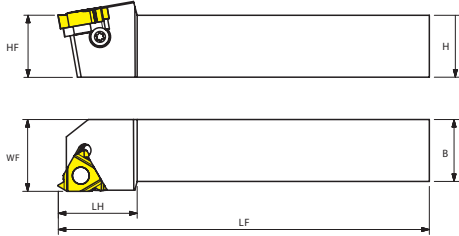





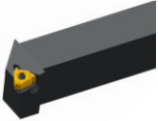


External Threading Turning Tool



Type	Dimension					Adaptable Inserts	Inserts Screw	Shim	Shim Screw	Wrench
	H	HF	B	LF	WF					
	SWR/L1010H11	10	10	10	100	16	11IR/ER G-	—	—	T08
	SWR/L1212H11	12	12	12	100	16				
	SWR/L1616H16	16	16	16	100	20	16IR/ER G-	L60 M3.5 × 12	TT16-	SS04008
	SWR/L2020K16	20	20	20	125	25				
	SWR/L2525M16	25	25	25	150	32				
	SWR/L3225P16	32	32	25	170	32				
	SWR/L3232P16	32	32	32	170	40				
	SWR/L2525M22	25	25	25	150	32	22IR/ER G-	L60 M4 × 16	TT22-	SS04008
	SWR/L2525P22	32	32	25	170	32				
	SWR/L3232P22	32	32	32	170	40				
	SWR/4040S22	40	40	40	250	50	27IR/ER G-	L60 M6 × 16	TT27-	T20 S2.5
	SWR/L3232P22	32	32	32	170	40				
	SWR/L4040S27	40	40	40	250	50				

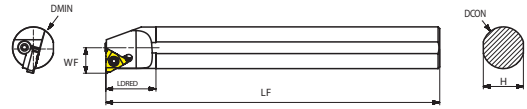
B


C

D

E

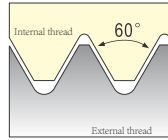
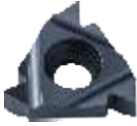
External Threading Turning Tool



Type	Dimension							Adaptable Inserts	Screw	Shim	Shim Screw	Wrench																																																																																		
	DMIN	DCON	H	LF	WF	LDRED																																																																																								
	SNR/L0010K11	10	12	9.5	125	6	32	11IR/ER L-	L60 M2.5×5			T08																																																																																		
	SNR/L0012K11	12	16	11.5	125	6	32						SNR/L0013M16	13	16	15.5	150	10	32	16IR/ER L-	L60 M3.5×8	TT16	SS04008	T15 S2.5	SNR/L0016M16	16	20	15.5	150	12	40	SNR/L0020Q16	20	25	19.5	180	14	40	SNR/L0025R16	25	30	24	200	16	45	SNR/L32S16	32	38	30	250	20	55	SNR/L0025R22	25	30	24	200	18	45	22IR/ER L-	L60 M4×16	TT22	SS04008	T20 S2.5	SNR/L0032S22	32	38	30	250	22	55	SNR/L0040T22	40	46	38	300	26	60	SNR/L0032S27	32	40	30	250	24	55	27IR/ER L-	L60 M6×16	TT27			SNR/L0040T27	40	50	38
	SNR/L0013M16	13	16	15.5	150	10	32	16IR/ER L-	L60 M3.5×8	TT16	SS04008	T15 S2.5																																																																																		
	SNR/L0016M16	16	20	15.5	150	12	40																																																																																							
	SNR/L0020Q16	20	25	19.5	180	14	40																																																																																							
	SNR/L0025R16	25	30	24	200	16	45																																																																																							
	SNR/L32S16	32	38	30	250	20	55																																																																																							
	SNR/L0025R22	25	30	24	200	18	45	22IR/ER L-	L60 M4×16	TT22	SS04008	T20 S2.5																																																																																		
	SNR/L0032S22	32	38	30	250	22	55																																																																																							
	SNR/L0040T22	40	46	38	300	26	60																																																																																							
	SNR/L0032S27	32	40	30	250	24	55	27IR/ER L-	L60 M6×16	TT27																																																																																				
	SNR/L0040T27	40	50	38	300	30	60																																																																																							

Threading Insert

60° General Pitch Thread



▶ Application for insert

it is suitable for all machining

▶ Standard

▶ Tolerance grade

External thread		
Ground type	Applicative pitch	
	mm	TPI
06ER-A60	0.5-1.25	48-16
16ER-A60	0.5-1.5	48-16
16ER-AG60	0.5-1.5	26-8
16ER-G60	0.5-3.0	14-8
22ER-N60	0.5-1.5	7-5
27ER-Q60	0.5-3.0	4.5-4

Internal thread			
Ground type	Applicative pitch		
	mm	TPI	
06IR-A60	0.5-1.25	48-20	
08IR-A60	0.5-1.5	48-16	
11IR-A60	0.5-1.5	48-16	
11IR-AG60	1.0-2.5	26-9	
16IR-A60	0.5-1.5	48-16	
16IR-AG60	1.0-3.0	26-8	
16IR-G60	1.75-3.0	14-8	
22IR-N60	3.5-5.0	7-5	
27IR-Q60	5.5-6.0	4.5-4	

B

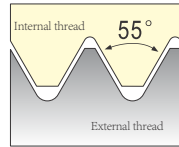
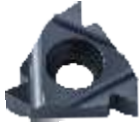
C

D

E

Threading Insert

55° General Pitch Thread



► Application for insert

it is suitable for all machining

► Standard

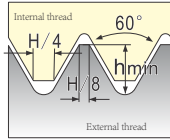
► Tolerance grade

External thread		
Ground type	Applicative pitch	
	mm	TPI
11ER-A55	0.5-1.5	48-16
16ER-A55	0.5-1.5	48-16
16ER-AG55	1.0-3.0	26-8
16ER-G55	1.75-3.0	14-8
22ER-N55	3.5-5.0	7-5
27ER-Q55	5.5-6.0	4.5-4

Internal thread		
Ground type	Applicative pitch	
	mm	TPI
06IR-A55	0.5-1.25	48-20
08IR-A55	0.5-1.5	48-16
11IR-A55	0.5-1.5	48-16
11IR-AG55	1.0-2.5	26-9
16IR-A55	0.5-1.5	48-16
16IR-AG55	1.0-3.0	26-8
16IR-G55	1.75-3.0	14-8
22IR-N55	3.5-5.0	7-5
27IR-Q55	5.5-6.0	4.5-4

Threading Insert

Unified Thread (American Standard Thread)



▶ Application for insert

It is suitable for all machining

▶ Standard
ANSI B1. 1:74

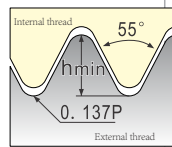
▶ Tolerance grade
2A/2B

External thread		
Ground type	Applicative pitch	
	mm	TPI
11ER-28UN	28	0.56
11ER-24UN	24	0.65
11ER-20UN	20	0.78
11ER-18UN	18	0.87
11ER-16UN	16	0.97
11ER-14UN	14	1.11
11ER-12UN	12	1.30
16ER-48UN	48	0.30
16ER-40UN	40	0.39
16ER-32UN	32	0.49
16ER-28UN	28	0.56
16ER-24UN	24	0.65
16ER-20UN	20	0.78
16ER-18UN	18	0.87
16ER-16UN	16	0.97
16ER-14UN	14	1.11
16ER-12UN	12	1.30
16ER-11UN	11	1.42
16ER-10UN	10	1.56
16ER-9UN	9	1.73
16ER-8UN	8	1.95
22ER-7UN	7	2.22
22ER-6UN	6	2.60
22ER-5UN	5	3.12
27ER-4.5UN	4.5	3.46
27ER-4UN	4	3.89

Internal thread		
Ground type	Applicative pitch	
	mm	TPI
06IR-28UN	28	0.52
06IR-24UN	24	0.61
06IR-20UN	20	0.73
06IR-18UN	18	0.81
08IR-28UN	28	0.52
08IR-24UN	24	0.61
08IR-20UN	20	0.73
08IR-18UN	18	0.81
08IR-16UN	16	0.92
11IR-28UN	28	0.52
11IR-24UN	24	0.61
11IR-20UN	20	0.73
11IR-18UN	18	0.81
11IR-16UN	16	0.92
11IR-14UN	14	1.05
11IR-12UN	12	1.22
16IR-48UN	48	0.31
16IR-40UN	40	0.37
16IR-32UN	32	0.46
16IR-28UN	28	0.52
16IR-24UN	24	0.61
16IR-20UN	20	0.73
16IR-18UN	18	0.81
16IR-16UN	16	0.92
16IR-14UN	14	1.05
16IR-12UN	12	1.22
16IR-11UN	11	1.28
16IR-10UN	10	1.47
16IR-9UN	9	1.63
16IR-8UN	8	1.83
22IR-7UN	7	2.09
22IR-6UN	6	2.44
22IR-5UN	5	2.93
27IR-4.5UN	4.5	3.26
27IR-4UN	4	3.67

Threading Insert

Whitworth Thread



Application for insert

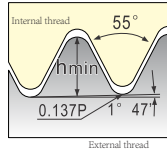
It is suitable for all machining

- ▶ **Standard**
B.S.84:1956,
DIN259,ISO228/1:1982
- ▶ **Tolerance grade**
Medium class A

External thread				Internal thread			
Ground type	A type	Applicative pitch		Ground type	A type	Applicative pitch	
		mm	TPI			mm	TPI
				06IR-28W		28	0.58
				06IR-24W		24	0.68
				06IR-20W		20	0.51
				06IR-19W		19	0.90
				08IR-28W		28	0.58
				08IR-24W		24	0.68
				08IR-20W		20	0.81
				08IR-19W		19	0.90
				08IR-16W		16	1.02
				11IR-28W		28	0.58
				11IR-24W		24	0.68
				11IR-20W		20	0.81
				11IR-19W		19	0.90
				11IR-16W		16	1.02
				11IR-14W		14	1.16
				11IR-11W		11	1.48
				16IR-48W		48	0.34
				16IR-40W		40	0.41
				16IR-32W		32	0.51
				16IR-28W		28	0.58
				16IR-26W		26	0.63
				16IR-24W		24	0.68
				16IR-20W		20	0.81
				16IR-19W		19	0.90
				16IR-16W		16	1.02
11ER-28W		28	0.58	16IR-14WM	16IR-14WA	14	1.16
11ER-24W		24	0.68	16IR-12W		12	1.36
11ER-20W		20	0.81	16IR-11W	16IR-11WA	11	1.48
11ER-19W		19	0.90	16IR-10W		10	1.63
11ER-16W		16	1.02	16IR-9W		9	1.81
11ER-14W		14	1.16	16IR-8W		8	2.03
11ER11W		11	1.48	22IR-7W		7	2.41
16ER-48W		48	0.34	22IR-6W		6	2.71
16ER-40W		40	0.41	22IR-5W		5	3.25
16ER-32W		32	0.51	27ER-4.5W		4.5	3.61
16ER-28W		28	0.58	27ER-4W		4	4.07
16ER-26W		26	0.63				
16ER-24W		24	0.68				
16ER-20W		20	0.81				
16ER-19W		19	0.90				
16ER-16W		16	1.02				
16ER-14W	16ER-14WA	14	1.16				
16ER-12W		12	1.36				
16ER-11W	16ER-11WA	11	1.48				
16ER-10W		10	1.63				
16ER-9W		9	1.81				
16ER-8WM		8	2.03				
22ER-7W		7	2.41				
22ER-6W		6	2.71				
22ER-5W		5	3.25				
27ER-4.5W		4.5	3.61				
27ER-4W		4	4.07				

Threading Insert

British Standard Taper Pipe Thread



Application for insert

It is suitable for all machining

Standard

B.S.21:1985

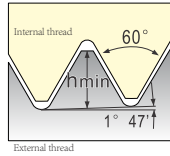
Tolerance grade

External thread			
Ground type	Full pressed	Applicative pitch	
		mm	TPI
16ER-28BSP		28	0.58
16ER-19BSPT		19	0.86
16ER-14BSPT	16ER-14BSPTA	14	1.16
16ER-11BSPT	16ER-11BSPTA	11	1.48

Internal thread			
Ground type	Full pressed	Applicative pitch	
		mm	TPI
06IR-28BSPT		28	0.58
080IR-28BSPT		28	0.58
08IR-19BSPT		19	0.86
11IR-19BSPT		19	0.86
11IR-14BSPT		14	1.16
11IR-11BSPT		11	1.48
16IR-28BSPT		28	0.58
16IR-19BSPT		19	0.86
16IR-14BSPT	16IR-14BSPTA	14	1.16
16IR-11BSPT	16IR-11BSPTA	11	1.48

Threading Insert

NPT American Standard Taper Pipe Thread



▶ Application for insert

it is suitable for all machining

▶ Standard

USAS B2. 1:1968

▶ Tolerance grade

External thread		
Ground type	Applicative pitch	
	mm	TPI
16ER-27NPT	27	0.66
16ER-18NPT	18	1.01
16ER-14NPT	14	1.33
16ER-11.5NPT	11.5	1.64
16ER-8NPT	8	2.42

Internal thread			
Ground type	Applicative pitch		
	mm	TPI	
06IR-27NPT	27	0.66	
08IR-27NPT	27	0.66	
08IR-18NPT	18	1.01	
11IR-18NPT	18	1.01	
11IR-14NPT	14	1.33	
16IR-18NPT	18	1.01	
16IR-14NPT	14	1.33	
16IR-11.5NPT	11.5	1.64	
16IR-8NPT	8	2.42	

B

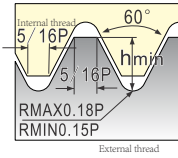
C

D

E

Threading Insert

UNJ American Standard Aerospace and Aviation Thread



▶ Application for insert

It is suitable for all machining

▶ Standard

MIL-D-8879C

▶ Tolerance grade

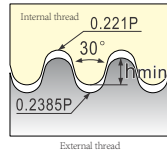
3A/3B

External thread		
Ground type	Applicative pitch	
	mm	TPI
16ER-40UN	40	0.37
16ER-36UN	36	0.41
16ER-32UN	32	0.46
16ER-28UN	28	0.52
16ER-24UN	24	0.61
16ER-20UN	20	0.73
16ER-18UN	18	0.81
16ER-16UN	16	0.92
16ER-14UN	14	1.05
16ER-12UN	12	1.22
16ER-10UN	10	1.47
16ER-8UN	8	1.83
22ER-7UN	7	2.09
22ER-6UN	6	2.44
22ER-5UN	5	2.93
27ER-4.5UN	4.5	3.26
27ER-4UN	4	3.67

Internal thread			
Ground type	Applicative pitch		
	mm	TPI	
06IR-18UN	18	0.74	
08IR-16UN	16	0.83	
08IR-14UN	14	0.95	
11IR-12UN	12	1.11	
16IR-10UN	10	1.33	
16IR-8UN	8	1.66	
22IR-7UN	7	1.90	
22IR-6UN	6	2.21	
22IR-5UN	5	2.66	
27IR-4.5UN	4.5	2.95	
27IR-4UN	4	3.32	

Threading Insert

30°DIN405 Round Thread



▶ Application for insert

It is suitable for all machining

▶ Standard
DIN405

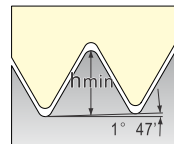
▶ Tolerance grade
7h/7H

External thread		
Ground type	Applicative pitch	
	mm	TPI
16ER-10R	10	1.27
16ER-8R	8	1.59
16ER-6R	6	2.12
22ER-6R	6	2.12
22ER-4R	4	3.18

Internal thread		
Ground type	Applicative pitch	
	mm	TPI
16IR-10R	10	1.27
16IR-8R	8	1.59
16IR-6R	6	2.12
22IR-6R	6	2.12
22IR-4R	4	3.18

APIRD

Petroleum Pipeline Threading insert



▶ Application for insert

It is suitable for all machining

▶ Standard
STD.5B.1979

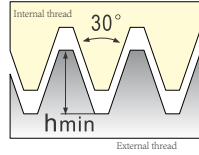
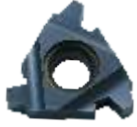
▶ Tolerance grade

external thread		
ground type	applicative pitch	
	mm	TPI
16ER-10APIRD	10	1.41
16ER-8APIRD	8	1.81

internal thread		
ground type	applicative pitch	
	mm	TPI
16IR-10APIRD	10	1.41
16IR-8APIRD	8	1.81

Threading Insert

30°ISO Metric Thread



▶ Application for insert

It is suitable for all machining

▶ Standard

DIN103

▶ Tolerance grade

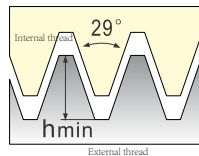
7e/7H

External thread		
Ground type	Applicative pitch	
	mm	TPI
16ER-1.5TR	1.5	0.90
16ER-2TR	2	1.25
16ER-3TR	3	1.75
22ER-4TR	4	2.25
22ER-5TR	5	2.75
27ER-6TR	6	3.50
27ER-7TR	7	4.00

Internal thread		
Ground type	Applicative pitch	
	mm	TPI
16IR-1.5TR	1.5	0.90
16IR-2TR	2	1.25
16IRL-3TR	3	1.75
22IRL-4TR	4	2.25
22IR-5TR	5	2.75
27IR-6TR	6	3.50
27IR-7TR	7	4.00

ACME

29°American ACME Thread



▶ Application for insert

It is suitable for all machining

▶ Standard

ANSI B1.5:1988

▶ Tolerance grade

3G

External thread		
Ground type	Applicative pitch	
	mm	TPI
16ER-12ACME	12	1.19
16ER-10ACME	10	1.52
16ER-8ACME	8	1.84
22ER-6ACME	6	2.37
22ER-5ACME	5	2.79
27ER-4ACME	4	3.43

Internal thread		
Ground type	Applicative pitch	
	mm	TPI
16IR-8ACME	8	1.84
22IR-6ACME	6	2.37
22IR-5ACME	5	2.79
27IR-4ACME	4	3.43