TURNING

Threading

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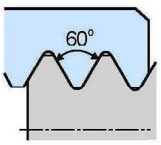
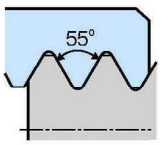
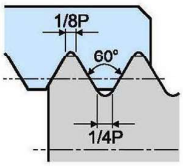
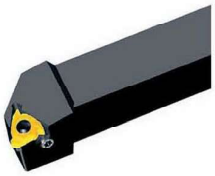
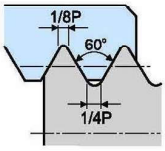
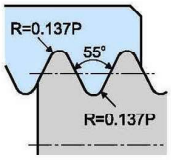
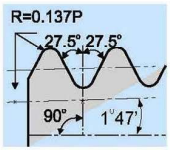
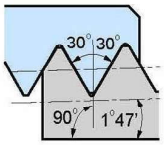
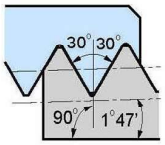
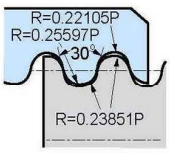
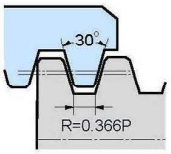
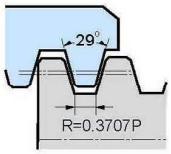
American ACME	A86

TURNING Threading Tools
Threading tools overview

Applications		for general use		
Legend				
Thread name		Partial Profile 60°	Partial Profile 55°	ISO metric
Threading pitch		**60**	**55**	**GM**
Shape of insert (length: 11, 16, 22mm)		R style shown	R style shown	R style shown
Pitch / Toolholder	Dimensions (mm) (H × W × L) (Dia × L × Min.dia)	Pitch/mm (pitch/Inch)	Pitch/mm (pitch/Inch)	Pitch/mm
External thread	 R–type shown	16×16×100 20×20×125 25×25×150 32×25×170 32×32×170 40×40×250	0.5~6.0 (5~48)	0.5~6.0 (5~48)	0.35~6.0
Internal thread	R–type shown	16×125×12 16×150×16 16×150×20 20×150×25 20×180×25 25×150×32 32×200×40 32×250×40 40×300×50 50×350×63	0.5~6.0 (5~48)	0.5~6.0 (5~48)	0.35~6.0

For aerospace industry	For general use	Heater, gas and water pipe thread	For gas and water faucet and pipe connection	For gas and water pipe thread
				
UN	**W**	**BSP**	**NPT**	**NPTF**
R–type shown	R–type shown	R–type shown	R–type shown	R–type shown
Pitch/mm (pitch/Inch)	Pitch/mm (pitch/Inch)	Pitch/mm (pitch/Inch)	Pitch/mm (pitch/Inch)	Pitch/mm (pitch/Inch)
72~4	72~4	28~11	27~8	27~8
72~4	72~4	28~11	27~8	27~8

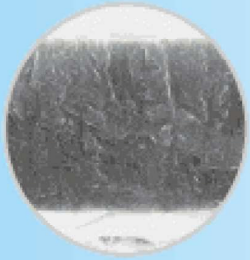
TURNING Threading Tools
Threading tools overview

Applications		For food industry and firefighting thread	Transmission trapezoid screw thread	For transmission trapezoidal screw
Legend				
Thread name		DIN405 Round thread	DIN103 Trapezoidal thread	American Trapezoidal thread
Threading pitch		**R**	**Tr**	**ACME**
Shape of insert (length: 11, 16, 22mm)		R style shown	R style shown	R style shown
Tool holder Dimensions (mm) (H × W × L) (Dia × L × Min.dia)		Pitch/mm (pitch/Inch)	Pitch/mm	Pitch/mm (pitch/Inch)
External thread	16×16×100 20×20×125 25×25×150 32×25×170 32×32×170 40×40×250	10~4	1.5~6.0	16~4
Internal thread	16×125×12 16×150×16 16×150×20 20×150×25 20×180×25 25×150×32 32×200×40 32×250×40 40×300×50 50×350×63	10~4	1.5~6.0	16~4

Advanced surface treatment techniques effectively reduce friction and allows for better wear observation.
It has excellent Anti-wear properties owing to the TIAIN coating in the Inner layer.

SD1125

Coated grade which is the combination of hard substrate and coating(thick nc-TiAIN) It is suitable for finishing to semi-finishing of turning machining and High-temperature alloy rough turning.



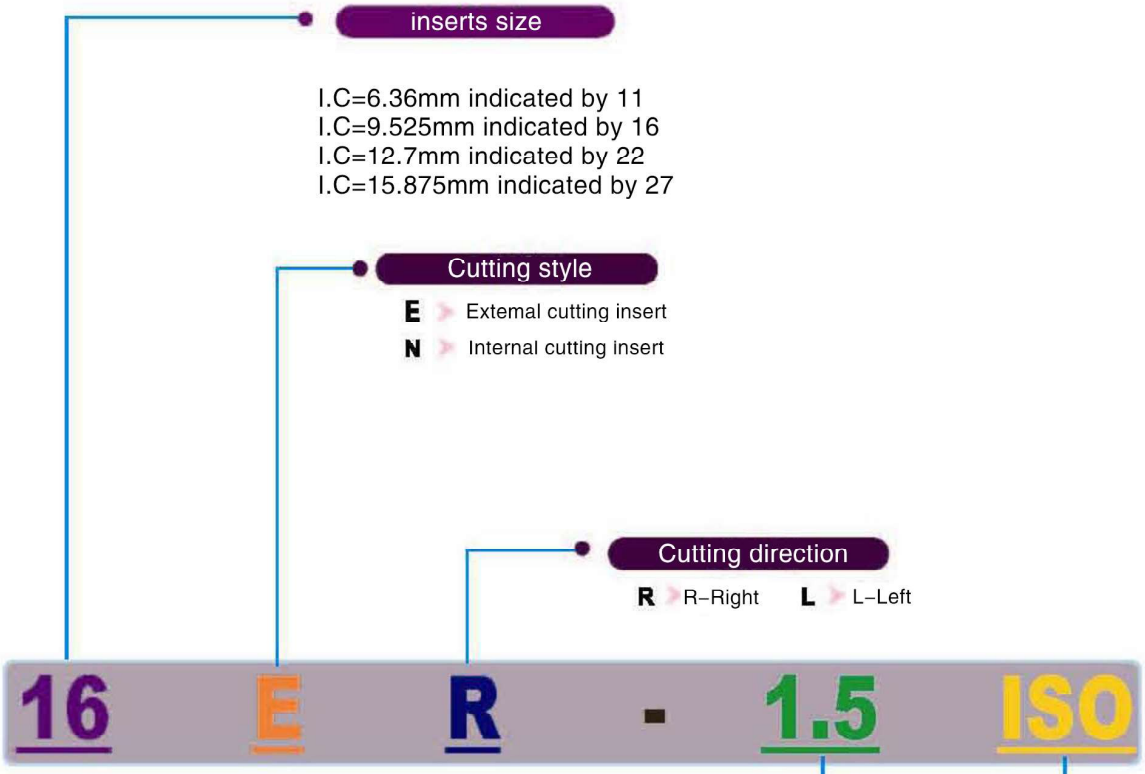
Advanced TiAIN substrate nano coating, in combination with proper coating ingredients. Improves the mechanical and thermal properties of coating. Further optimizing coating structure improving coating stress and enhancing bond strength of coating and substrate.

SD1025

Coated carbide TiN and PVD makes good Toughness and wear resistance. It is the first choice for high quality of the threading carbon steel, stainless steel and cast iron in variety of materials e.g. steel.

TURNING Threading Inserts

Threading machining inserts code key



Screw pitch

Full profile(range of screw pitch is indicated by numbers)

mm	TPI
0.35-9.0	72-2

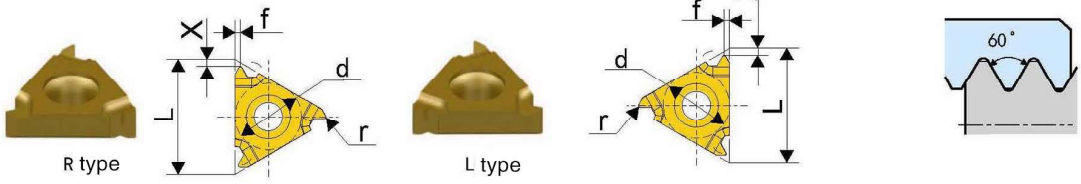
V profile
(range of screw pitch is indicated by letters)

	mm	TPI
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	41/2-4

Profile

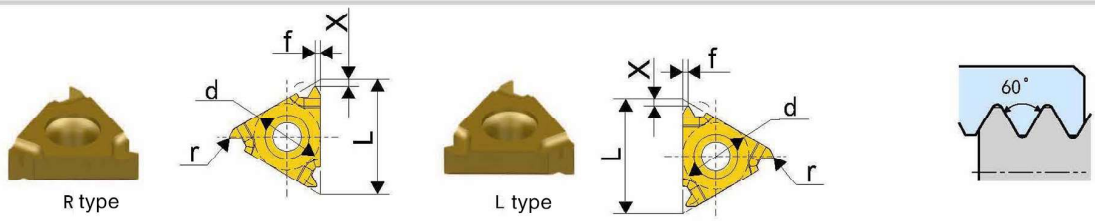
60°	60° general pitch thread
55°	55° general pitch thread
ISO	metric 60° pitch thread
UN	60° unified thread(American standard threads)
UNJ	60° American Aviation standards threads
W	55° Whitworth thread
NPT	60° American standard taper piper thread
NPTF	60° National DRYSEAL piper thread
BSPT	55° British standard taper piper thread
ACME	29° American standard Trapezoidal thread
STACME	29° American standatd Short tooth trapezoidal thread
TR	30° Standard trapezoidal thread
ABUT	American Sawtooth Thread
RD	Fire food machinery round thread
API RD	API Round thread

Generic threading



Type	Oesignnation Right	Oesignnation Left	Screw pitch (mm)	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
					d	L	X	f	SD1025		SD1125	
									R	L	R	L
Extemel	11ER-A60	11EL-A60	0.5-1.5	48-16	6.35	11	0.8	0.9	★	★	★	★
	11ER-G60	11EL-G60	1.75-3.0	14-8	9.525	16	1.2	1.7	★	★	★	★
	11ER-AG60	11EL-AG60	0.5-3.0	48-8	9.525	16	1.2	1.7	★	★	★	★
	22ER-N60	22EL-N60	3.5-5.0	7-5	12.7	22	1.7	2.5	★	★	★	★
	27ER-Q60	27EL-Q60	5.5-6.0	4.5-4	15.875	27	2.1	3.1	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order



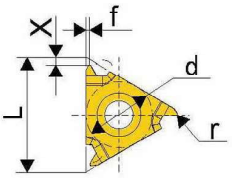
Type	Oesignnation Right	Oesignnation Left	Screw pitch (mm)	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
					d	L	X	f	SD1025		SD1125	
									R	L	R	L
Internal	11NR-A60	11NL-A60	0.5-1.5	48-16	6.35	11	0.8	0.9	★	★	★	★
	11NR-G60	11NL-G60	1.75-3.0	14-8	9.525	16	1.2	1.7	★	★	★	★
	11NR-AG60	11NL-AG60	0.5-3.0	48-8	9.525	16	1.2	1.7	★	★	★	★
	22NR-N60	22NL-N60	3.5-5.0	7-5	12.7	22	1.7	2.5	★	★	★	★
	27NR-Q60	27NL-Q60	5.5-6.0	4.5-4	15.875	27	1.8	2.7	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

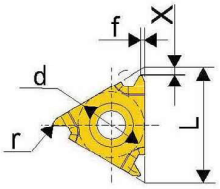
TURNING Threading Inserts

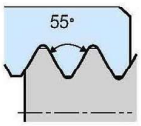
Generic threading

R type



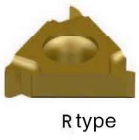
L type

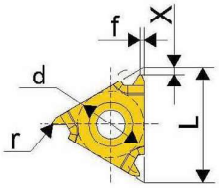




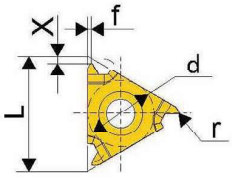
Type	Oesignnation Right	Oesignnation Left	Screw pitch (mm)	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
					d	L	X	f	SD1025		SD1125	
									R	L	R	L
External	11ER-A55	11EL-A55	0.5-1.5	48-16	6.35	11	0.8	0.9	★	★	★	★
	11ER-G55	11EL-G55	1.75-3.0	14-8	9.525	16	1.2	1.7	★	★	★	★
	11ER-AG55	11EL-AG55	0.5-3.0	48-8	9.525	16	1.2	1.7	★	★	★	★
	22ER-N55	22EL-N55	3.5-5.0	7-5	12.7	22	1.7	2.5	★	★	★	★
	27ER-Q55	27EL-Q55	5.5-6.0	4.5-4	15.875	27	2	2.9	★	★	★	★

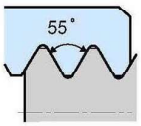
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order


R type



L type



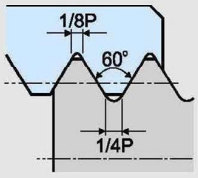


Type	Oesignnation Right	Oesignnation Left	Screw pitch (mm)	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
					d	L	X	f	SD1025		SD1125	
									R	I	R	I
Internal	11NR-A55	11NL-A55	0.5-1.5	48-16	6.35	11	0.8	0.9	★	★	★	★
	11NR-G55	11NL-G55	1.75-3.0	14-8	9.525	16	1.2	1.7	★	★	★	★
	11NR-AG55	11NL-AG55	0.5-3.0	48-8	9.525	16	1.2	1.7	★	★	★	★
	22NR-N55	22NL-N55	3.5-5.0	7-5	12.7	22	1.7	2.5	★	★	★	★
	27NR-Q55	27NL-Q55	5.5-6.0	4.5-4	15.875	27	2	2.9	★	★	★	★

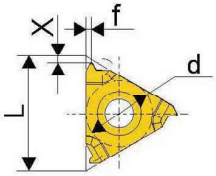
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

ISO Threading

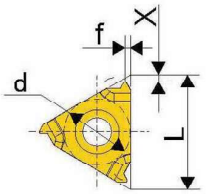
ISO 965-1980 DIN 13
GB/T 197-2003 Tolerance level: 6g/6H



R type



L type



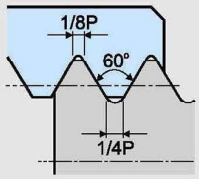
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Extemal	11ER-0.35ISO	11EL-0.35ISO	0.35	6.35	11	0.8	0.4	★	★	★	★
	11ER-0.4ISO	11EL-0.4ISO	0.4	6.35	11	0.7	0.4	★	★	★	★
	11ER-0.45ISO	11EL-0.45ISO	0.45	6.35	11	0.7	0.4	★	★	★	★
	11ER-0.5ISO	11EL-0.5ISO	0.5	6.35	11	0.6	0.4	★	★	★	★
	11ER-0.6ISO	11EL-0.6ISO	0.6	6.35	11	0.6	0.6	★	★	★	★
	11ER-0.7ISO	11EL-0.7ISO	0.7	6.35	11	0.6	0.6	★	★	★	★
	11ER-0.75ISO	11EL-0.75ISO	0.75	6.35	11	0.6	0.6	★	★	★	★
	11ER-0.8ISO	11EL-0.8ISO	0.8	6.35	11	0.6	0.6	★	★	★	★
	11ER-1.0ISO	11EL-1.0ISO	1	6.35	11	0.7	0.7	★	★	★	★
	11ER-1.25ISO	11EL-1.25ISO	1.25	6.35	11	0.8	0.9	★	★	★	★
	11ER-1.5ISO	11EL-1.5ISO	1.5	6.35	11	0.8	1	★	★	★	★
	11ER-1.75ISO	11EL-1.75ISO	1.75	6.35	11	0.8	1.1	★	★	★	★
	16ER-0.35ISO	16EL-0.35ISO	0.35	9.525	16	0.8	0.4	★	★	★	★
	16ER-0.4ISO	16EL-0.4ISO	0.4	9.525	16	0.7	0.4	★	★	★	★
	16ER-0.45ISO	16EL-0.45ISO	0.45	9.525	16	0.7	0.4	★	★	★	★
	16ER-0.5ISO	16EL-0.5ISO	0.5	9.525	16	0.6	0.4	★	★	★	★
	16ER-0.6ISO	16EL-0.6ISO	0.6	9.525	16	0.6	0.6	★	★	★	★
	16ER-0.7ISO	16EL-0.7ISO	0.7	9.525	16	0.6	0.6	★	★	★	★
	16ER-0.75ISO	16EL-0.75ISO	0.75	9.525	16	0.6	0.6	★	★	★	★
	16ER-0.8ISO	16EL-0.8ISO	0.8	9.525	16	0.6	0.6	★	★	★	★

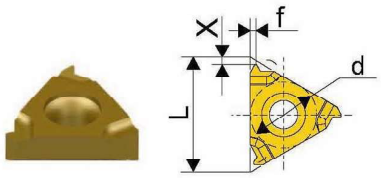
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

TURNING Threading Inserts

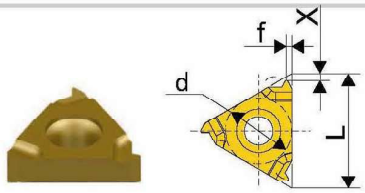
ISO Threading

ISO 965-1980 DIN 13
GB/T 197-2003 tolerance grade: 6g/6H





R type



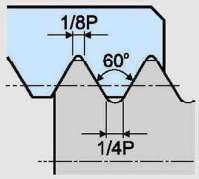
L type

Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Extemal	16ER-1.0ISO	16EL-1.0ISO	1	9.525	16	0.7	0.7	★	★	★	★
	16ER-1.25ISO	16EL-1.25ISO	1.25	9.525	16	0.8	0.9	★	★	★	★
	16ER-1.5ISO	16EL-1.5ISO	1.5	9.525	16	0.8	1	★	★	★	★
	16ER-1.75ISO	16EL-1.75ISO	1.75	9.525	16	0.9	1.2	★	★	★	★
	16ER-2.0ISO	16EL-2.0ISO	2	9.525	16	1	1.3	★	★	★	★
	16ER-2.5ISO	16EL-2.5ISO	2.5	9.525	16	1.1	1.5	★	★	★	★
	16ER-3.0SO	16EL-3.0ISO	3	9.525	16	1.2	1.6	★	★	★	★
	22ER-3.5ISO	22EL-3.5ISO	3.5	12.7	22	1.6	2.3	★	★	★	★
	22ER-4.0ISO	22EL-4.0ISO	4	12.7	22	1.6	2.3	★	★	★	★
	22ER-4.5ISO	22EL-4.5ISO	4.5	12.7	22	1.7	2.4	★	★	★	★
	22ER-5.0ISO	22EL-5.0ISO	5	12.7	22	1.7	2.5	★	★	★	★
	27ER-5.5ISO	27EL-5.5ISO	5.5	15.875	27	1.9	2.7	★	★	★	★
	27ER-6.0ISO	27EL-6.0ISO	6	15.875	27	2	2.9	★	★	★	★

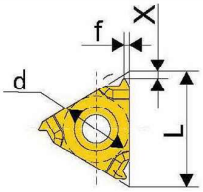
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

ISO Threading

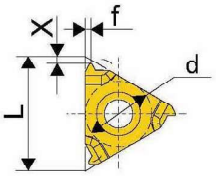
ISO 965-1980 DIN 13
GB/T 197-2003 Tolerance level: 6g/6H



Rtype



Ltype



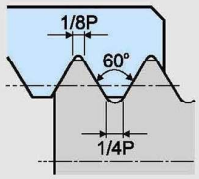
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	11NR-0.35ISO	11NL-0.35ISO	0.35	6.35	11	0.8	0.3	★	★	★	★
	11NR-0.4ISO	11NL-0.4ISO	0.4	6.35	11	0.8	0.4	★	★	★	★
	11NR-0.45ISO	11NL-0.45ISO	0.45	6.35	11	0.8	0.4	★	★	★	★
	11NR-0.5ISO	11NL-0.5ISO	0.5	6.35	11	0.6	0.4	★	★	★	★
	11NR-0.6ISO	11NL-0.6ISO	0.6	6.35	11	0.6	0.6	★	★	★	★
	11NR-0.7ISO	11NL-0.7ISO	0.7	6.35	11	0.6	0.6	★	★	★	★
	11NR-0.75ISO	11NL-0.75ISO	0.75	6.35	11	0.6	0.6	★	★	★	★
	11NR-0.8ISO	11NL-0.8ISO	0.8	6.35	11	0.6	0.6	★	★	★	★
	11NR-1.0ISO	11NL-1.0ISO	1	6.35	11	0.6	0.7	★	★	★	★
	11NR-1.25ISO	11NL-1.25ISO	1.25	6.35	11	0.8	0.9	★	★	★	★
	11NR-1.5ISO	11NL-1.5ISO	1.5	6.35	11	0.8	1	★	★	★	★
	11NR-1.75ISO	11NL-1.75ISO	1.75	6.35	11	0.9	1.1	★	★	★	★
	11NR-2.0ISO	11NL-2.0ISO	2	6.35	11	0.9	1.1	★	★	★	★
	11NR-2.5ISO	11NL-2.5ISO	2.5	6.35	11	0.8	1.1	★	★	★	★
	16NR-0.35ISO	16NL-0.35ISO	0.35	9.525	16	0.8	0.3	★	★	★	★
	16NR-0.4ISO	16NL-0.4ISO	0.4	9.525	16	0.8	0.4	★	★	★	★
	16NR-0.45ISO	16NL-0.45ISO	0.45	9.525	16	0.8	0.4	★	★	★	★
	16NR-0.5ISO	16NL-0.5ISO	0.5	9.525	16	0.6	0.4	★	★	★	★
	16NR-0.6ISO	16NL-0.6ISO	0.6	9.525	16	0.6	0.6	★	★	★	★
	16NR-0.7ISO	16NL-0.7ISO	0.7	9.525	16	0.6	0.6	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

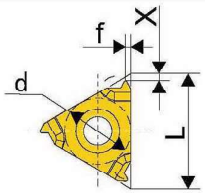
TURNING Threading Inserts

ISO Threading

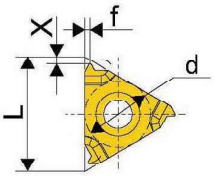
ISO 965-1980 DIN 13
GB/T 197-2003 tolerance grade: 6g/6H



R type



L type

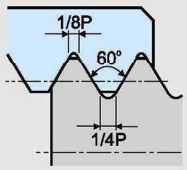


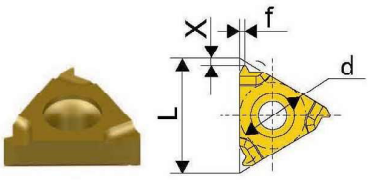
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions(mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	16NR-0.75ISO	16NL-0.75ISO	0.75	9.525	16	0.6	0.6	★	★	★	★
	16NR-0.8ISO	16NL-0.8ISO	0.8	9.525	16	0.6	0.6	★	★	★	★
	16NR-1.0ISO	16NL-1.0ISO	1	9.525	16	0.6	0.7	★	★	★	★
	16NR-1.25ISO	16NL-1.25ISO	1.25	9.525	16	0.8	0.9	★	★	★	★
	16NR-1.5ISO	16NL-1.5ISO	1.5	9.525	16	0.8	1	★	★	★	★
	16NR-1.75ISO	16NL-1.75ISO	1.75	9.525	16	0.9	1.2	★	★	★	★
	16NR-2.0ISO	16NL-2.0ISO	2	9.525	16	1	1.3	★	★	★	★
	16NR-2.5ISO	16NL-2.5ISO	2.5	9.525	16	1.1	1.5	★	★	★	★
	16NR-3.0ISO	16NL-3.0ISO	3	9.525	16	1.1	1.5	★	★	★	★
	22NR-3.5ISO	22NL-3.5ISO	3.5	12.7	22	1.6	2.3	★	★	★	★
	22NR-4.0ISO	22NL-4.0ISO	4	12.7	22	1.6	2.3	★	★	★	★
	22NR-4.5ISO	22NL-4.5ISO	4.5	12.7	22	1.6	2.4	★	★	★	★
	22NR-5.0ISO	22NL-5.0ISO	5	12.7	22	1.6	2.3	★	★	★	★
	27NR-5.5ISO	27NL-5.5ISO	5.5	15.875	27	1.6	2.3	★	★	★	★
	27NR-6.0ISO	27NL-6.0ISO	6	15.875	27	1.8	2.5	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

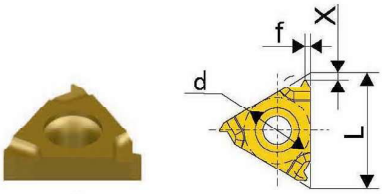
American standard thread

ASME B1.1-1989
tolerance grade: 2A/2B





Rtype



Ltype

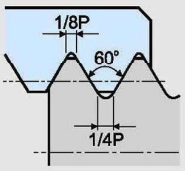
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade SD1025		Recommended grade SD1125	
				d	L	X	f	R	L	R	L
Extemal	11ER-72UN	11EL-72UN	72	6.35	11	0.8	0.4	★	★	★	★
	11ER-64UN	11EL-64UN	64	6.35	11	0.8	0.4	★	★	★	★
	11ER-56UN	11EL-56UN	56	6.35	11	0.7	0.4	★	★	★	★
	11ER-48U	11EL-48UN	48	6.35	11	0.6	0.6	★	★	★	★
	11ER-44UN	11EL-44UN	44	6.35	11	0.6	0.6	★	★	★	★
	11ER-40UN	11EL-40UN	40	6.35	11	0.6	0.6	★	★	★	★
	11ER-36UN	11EL-36UN	36	6.35	11	0.6	0.6	★	★	★	★
	11ER-32UN	11EL-32UN	32	6.35	11	0.6	0.6	★	★	★	★
	11ER-28UN	11EL-28UN	28	6.35	11	0.6	0.7	★	★	★	★
	11ER-27UN	11EL-27UN	27	6.35	11	0.7	0.8	★	★	★	★
	11ER-24UN	11EL-24UN	24	6.35	11	0.7	0.8	★	★	★	★
	11ER-20UN	11EL-20UN	20	6.35	11	0.8	0.9	★	★	★	★
	11ER-18UN	11EL-18UN	18	6.35	11	0.8	1	★	★	★	★
	11ER-16UN	11EL-16UN	16	6.35	11	0.9	1.1	★	★	★	★
	11ER-14UN	11EL-14UN	14	6.35	11	0.9	1.1	★	★	★	★
	16ER-72UN	16EL-72UN	72	9.525	16	0.8	0.4	★	★	★	★
	16ER-64UN	16EL-64UN	64	9.525	16	0.8	0.4	★	★	★	★
	16ER-56UN	16EL-56UN	56	9.525	16	0.7	0.4	★	★	★	★
	16ER-48UN	16EL-48UN	48	9.525	16	0.6	0.6	★	★	★	★
	16ER-44UN	16EL-44UN	44	9.525	16	0.6	0.6	★	★	★	★
	16ER-40UN	16EL-40UN	40	9.525	16	0.6	0.6	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

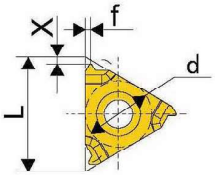
TURNING Threading Inserts

American standard thread

ASME B1.1-1989
tolerance grade: 2A/2B



Rtype



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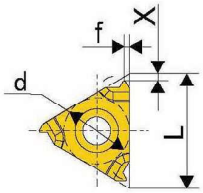
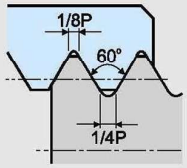


Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade SD1025		Recommended grade SD1125	
				d	L	X	f	R	L	R	L
Extemal	16ER-36UN	16EL-36UN	36	9.525	16	0.6	0.6	★	★	★	★
	16ER-32UN	16EL-32UN	32	9.525	16	0.6	0.6	★	★	★	★
	16ER-28UN	16EL-28UN	28	9.525	16	0.6	0.7	★	★	★	★
	16ER-27UN	16EL-27UN	27	9.525	16	0.7	0.8	★	★	★	★
	16ER-24UN	16EL-24UN	24	9.525	16	0.7	0.8	★	★	★	★
	16ER-20UN	16EL-20UN	20	9.525	16	0.8	0.9	★	★	★	★
	16ER-18UN	16EL-18UN	18	9.525	16	0.8	1	★	★	★	★
	16ER-16UN	16EL-16UN	16	9.525	16	0.9	1.1	★	★	★	★
	16ER-14UN	16EL-14UN	14	9.525	16	1	1.2	★	★	★	★
	16ER-13UN	16EL-13UN	13	9.525	16	1	1.3	★	★	★	★
	16ER-12UN	16EL-12UN	12	9.525	16	1.1	1.4	★	★	★	★
	16ER-11.5UN	16EL-11.5UN	11.5	9.525	16	1.1	1.5	★	★	★	★
	16ER 11UN	16EL 11UN	11	9.525	16	1.1	1.5	★	★	★	★
	16ER-10UN	16ENL-10UN	10	9.525	16	1.1	1.5	★	★	★	★
	16ER-9UN	16EL-9UN	9	9.525	16	1.2	1.7	★	★	★	★
	16ER-8UN	16NEL-8UN	8	9.525	16	1.2	1.6	★	★	★	★
	22ER-7UN	22EL-7UN	7	12.7	22	1.6	2.3	★	★	★	★
	22ER-6UN	22EL-6UN	6	12.7	22	1.6	2.3	★	★	★	★
	22ER-5UN	22EL-5UN	5	12.7	22	1.7	2.5	★	★	★	★
	27ER-4.5UN	27EL-4.5UN	4.5	15.875	27	1.9	2.7	★	★	★	★
	27ER-4UN	27EL-4UN	4	15.875	27	2.1	3	★	★	★	★

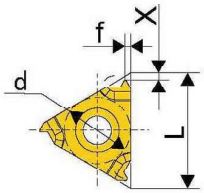
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

American standard thread

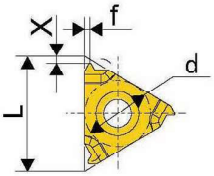
ASME B1.1-1989
tolerance grade: 2A/2B



Rtype



Ltype



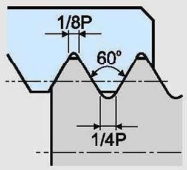
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade SD1025		Recommended grade SD1125	
				d	L	X	f	R	L	R	L
Internal	11NR-72W	11NL-72W	72	6.35	11	0.7	0.4	★	★	★	★
	11NR-64W	11NL-64W	64	6.35	11	0.7	0.4	★	★	★	★
	11NR-56UN	11NL-56UN	56	6.35	11	0.7	0.4	★	★	★	★
	11NR-48U	11NL-48UN	48	6.35	11	0.6	0.6	★	★	★	★
	11NR-44UN	11NL-44UN	44	6.35	11	0.6	0.6	★	★	★	★
	11NR-40UN	11NL-40UN	40	6.35	11	0.6	0.6	★	★	★	★
	11NR-36UN	11NL-36UN	36	6.35	11	0.6	0.6	★	★	★	★
	11NR-32UN	11NL-32UN	32	6.35	11	0.6	0.6	★	★	★	★
	11NR-28UN	11NL-28UN	28	6.35	11	0.6	0.7	★	★	★	★
	11NR-27UN	11NL-27UN	27	6.35	11	0.7	0.8	★	★	★	★
	11NR-24UN	11NL-24UN	24	6.35	11	0.7	0.8	★	★	★	★
	11NR-20UN	11NL-20UN	20	6.35	11	0.8	0.9	★	★	★	★
	11NR-18UN	11NL-18UN	18	6.35	11	0.8	1	★	★	★	★
	11NR-16UN	11NL-16UN	16	6.35	11	0.9	1.1	★	★	★	★
	11NR-14UN	11NL-14UN	14	6.35	11	0.9	1.1	★	★	★	★
	11NR-12UN	11NL-12UN	12	6.35	11	0.8	1.1	★	★	★	★
	11NR-11UN	11NL-11UN	11	6.35	11	0.8	1.1	★	★	★	★
	16NR-72UN	16NL-72UN	72	9.525	16	0.8	0.4	★	★	★	★
	16NR-64UN	16NL-64UN	64	9.525	16	0.8	0.4	★	★	★	★
	16NR-56UN	16NL-56UN	56	9.525	16	0.7	0.4	★	★	★	★
	16NR-48UN	16NL-48UN	48	9.525	16	0.6	0.6	★	★	★	★
	16NR-44UN	16NL-44UN	44	9.525	16	0.6	0.6	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

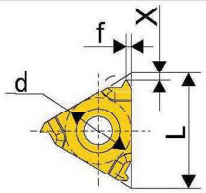
TURNING Threading Inserts

American standard thread

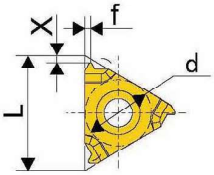
ASME B1.1-1989
tolerance grade: 2A/2B



Rtype



Ltype

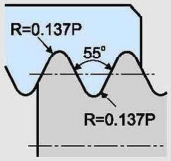


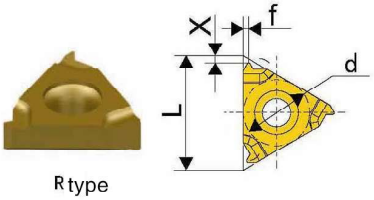
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	16NR-40UN	16NL-40UN	40	9.525	16	0.6	0.6	★	★	★	★
	16NR-36UN	16NL-36UN	36	9.525	16	0.6	0.6	★	★	★	★
	16NR-32UN	16NL-32UN	32	9.525	16	0.6	0.6	★	★	★	★
	16NR-28UN	16NL-28UN	28	9.525	16	0.6	0.7	★	★	★	★
	16NR-27UN	16NL-27UN	27	9.525	16	0.7	0.8	★	★	★	★
	16NR-24UN	16NL-24UN	24	9.525	16	0.7	0.8	★	★	★	★
	16NR-20UN	16NL-20UN	20	9.525	16	0.8	0.9	★	★	★	★
	16NR-18UN	16NL-18UN	18	9.525	16	0.8	1	★	★	★	★
	16NR-16UN	16NL-16UN	16	9.525	16	0.9	1.1	★	★	★	★
	16NR 14UN	16NL 14UN	14	9.525	16	1	1.2	★	★	★	★
	16NR-13UN	16NL-13UN	13	9.525	16	1	1.3	★	★	★	★
	16NR-12UN	16NL-12UN	12	9.525	16	1.1	1.4	★	★	★	★
	16NR-11.5UN	16NL-11.5UN	11.5	9.525	16	1.1	1.5	★	★	★	★
	16NR-11UN	16NL-11UN	11	9.525	16	1.1	1.5	★	★	★	★
	16NR-10UN	16NL-10UN	10	9.525	16	1.1	1.5	★	★	★	★
	16NR-9UN	16NL-9UN	9	9.525	16	1.2	1.7	★	★	★	★
	16NR-8UN	16NL-8UN	8	9.525	16	1.2	1.5	★	★	★	★
	22NR-7UN	22NL-7UN	7	12.7	22	1.6	2.3	★	★	★	★
	22NR-6UN	22NL-6UN	6	12.7	22	1.6	2.3	★	★	★	★
	22NR-5UN	22NL-5UN	5	12.7	22	1.7	2.3	★	★	★	★
	27NR-4.5UN	27NL-4.5UN	4.5	15.875	27	1.9	2.4	★	★	★	★
	27NR-4UN	27NL-4UN	4	15.875	27	2.1	2.7	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

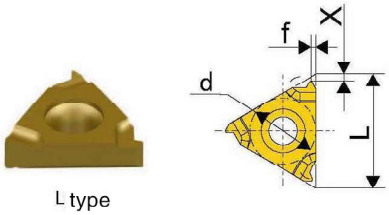
American standard thread

ISO 228/1:1982,
DIN 259, B.S.84:1956
tolerance grade: Medium class A





R type



L type

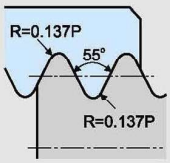
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade SD1025		Recommended grade SD1125	
				d	L	X	f	R	L	R	L
External	11ER-72W	11EL-72W	72	6.35	11	0.7	0.4	★	★	★	★
	11ER-64W	11EL-64W	64	6.35	11	0.7	0.4	★	★	★	★
	11ER-56W	11EL-56W	56	6.35	11	0.7	0.4	★	★	★	★
	11ER-48W	11EL-48W	48	6.35	11	0.6	0.6	★	★	★	★
	11ER-44W	11EL-44W	44	6.35	11	0.6	0.6	★	★	★	★
	11ER-40W	11EL-40W	40	6.35	11	0.6	0.6	★	★	★	★
	11ER-36W	11EL-36W	36	6.35	11	0.6	0.6	★	★	★	★
	11ER-32W	11EL-32W	32	6.35	11	0.6	0.6	★	★	★	★
	11ER-28W	11EL-28W	28	6.35	11	0.6	0.7	★	★	★	★
	11ER-26W	11EL-26W	27	6.35	11	0.7	0.8	★	★	★	★
	11ER-24W	11EL-24W	24	6.35	11	0.7	0.8	★	★	★	★
	11ER-22W	11EL-22W	24	6.35	11	0.8	0.9	★	★	★	★
	11ER-20W	11EL-20W	20	6.35	11	0.8	0.9	★	★	★	★
	11ER-19W	11EL-19W	19	6.35	11	0.8	1	★	★	★	★
	11ER-18W	11EL-18W	18	6.35	11	0.8	1	★	★	★	★
	11ER-16W	11EL-16W	16	6.35	11	0.9	1.1	★	★	★	★
	11ER-14W	11EL-14W	14	6.35	11	1	1.2	★	★	★	★
	16ER-72W	16EL-72W	72	9.525	16	0.7	0.4	★	★	★	★
	16ER-60W	16EL-60W	60	9.525	16	0.7	0.4	★	★	★	★
	16ER-56W	16EL-56W	56	9.525	16	0.7	0.4	★	★	★	★
	16ER-48W	16EL-48W	48	9.525	16	0.6	0.6	★	★	★	★
	16ER-44W	16EL-44W	44	9.525	16	0.6	0.6	★	★	★	★

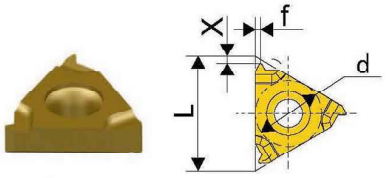
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

TURNING Threading Inserts

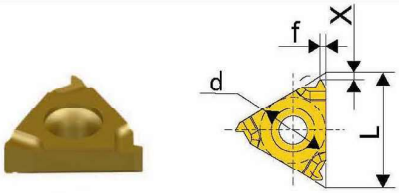
American standard thread

ISO 228/1:1982,
DIN 259, B.S.84:1956
tolerance grade: Medium class A





R type



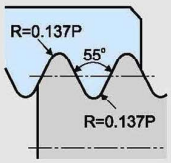
L type

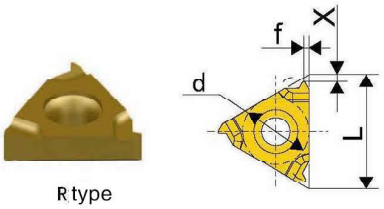
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
External	16ER-40W	16EL-40W	40	9.525	16	0.6	0.6	★	★	★	★
	16ER-36W	16EL-36W	36	9.525	16	0.6	0.6	★	★	★	★
	16ER-32W	16EL-32W	32	9.525	16	0.6	0.6	★	★	★	★
	16ER-28W	16EL-28W	28	9.525	16	0.6	0.7	★	★	★	★
	16ER-26W	16EL-26W	26	9.525	16	0.7	0.8	★	★	★	★
	16ER-24W	16EL-24W	24	9.525	16	0.7	0.8	★	★	★	★
	16ER-22W	16EL-22W	22	9.525	16	0.7	0.8	★	★	★	★
	16ER-20W	16EL-20W	20	9.525	16	0.8	0.9	★	★	★	★
	16ER-18W	16EL-18W	18	9.525	16	0.8	1	★	★	★	★
	16ER-16W	16EL-16W	16	9.525	16	0.9	1.1	★	★	★	★
	16ER-14W	16EL-14W	14	9.525	16	1	1.2	★	★	★	★
	16ER-12W	16EL-12W	12	9.525	16	1.1	1.4	★	★	★	★
	16ER-11W	16EL-11W	11	9.525	16	1.1	1.5	★	★	★	★
	16ER-10W	16ENL-10W	10	9.525	16	1.1	1.5	★	★	★	★
	16ER-9W	16EL-9W	9	9.525	16	1.2	1.7	★	★	★	★
	16ER-8W	16NEL-8W	8	9.525	16	1.2	1.5	★	★	★	★
	22ER-7W	22EL-7W	7	12.7	22	1.6	2.3	★	★	★	★
	22ER-6W	22EL-6W	6	12.7	22	1.6	2.3	★	★	★	★
	22ER-5W	22EL-5W	5	12.7	22	1.7	2.4	★	★	★	★
	27ER-4.5W	27EL-4.5W	4.5	15.875	27	1.8	2.6	★	★	★	★
	27ER-4UN	27EL-4UN	4	15.875	27	2.1	2.9	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

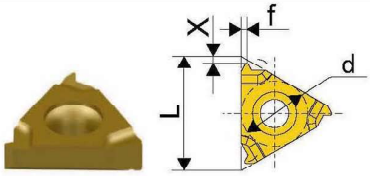
American standard thread

ISO 228/1:1982,
DIN 259, B.S.84:1956
tolerance grade: Medium class A





R type



L type

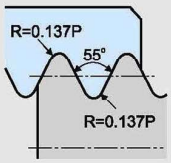
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade SD1025		Recommended grade SD1125	
				d	L	X	f	R	L	R	L
Internal	11NR-72W	11NL-72W	72	6.35	11	0.7	0.4	★	★	★	★
	11NR-64W	11NL-64W	64	6.35	11	0.7	0.4	★	★	★	★
	11NR-56W	11NL-56W	56	6.35	11	0.7	0.4	★	★	★	★
	11NR-48W	11NL-48W	48	6.35	11	0.6	0.6	★	★	★	★
	11NR-40W	11N-40W	40	6.35	11	0.6	0.6	★	★	★	★
	11NR-36W	11NL-36W	36	6.35	11	0.6	0.6	★	★	★	★
	11NR-32W	11NL-32W	32	6.35	11	0.6	0.6	★	★	★	★
	11NR-28W	11NL-28W	28	6.35	11	0.6	0.7	★	★	★	★
	11NR-26W	11NL-26W	27	6.35	11	0.7	0.8	★	★	★	★
	11NR-24W	11NL-24W	24	6.35	11	0.7	0.8	★	★	★	★
	11NR-22W	11NL-22W	24	6.35	11	0.8	0.9	★	★	★	★
	11NR-20W	11NL-20W	20	6.35	11	0.8	0.9	★	★	★	★
	11NR-19W	11NL-19W	19	6.35	11	0.8	1	★	★	★	★
	11NR-18W	11NL-18W	18	6.35	11	0.8	1	★	★	★	★
	11NR-16W	11NL-16W	16	6.35	11	0.9	1.1	★	★	★	★
	11NR-14W	11NL-14W	14	6.35	11	0.9	1.1	★	★	★	★
	11NR-12W	11NL-12W	12	6.35	11	0.9	1.2	★	★	★	★
	16NR-72W	16NL-72W	72	9.525	16	0.7	0.4	★	★	★	★
	16NR-60W	16NL-60W	60	9.525	16	0.7	0.4	★	★	★	★
	16NR-56W	16NL-56W	56	9.525	16	0.7	0.4	★	★	★	★
	16NR-48W	16NL-48W	48	9.525	16	0.6	0.6	★	★	★	★
	16NR-40W	16NL-40W	40	9.525	16	0.6	0.6	★	★	★	★

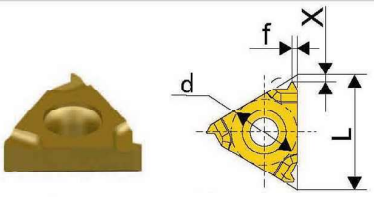
★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

TURNING Threading Inserts

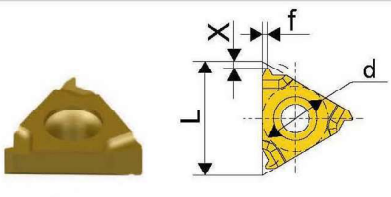
Whitworth thread

ISO 228/1:1982,
DIN 259, B.S.84:1956
tolerance grade: Medium class A





R type



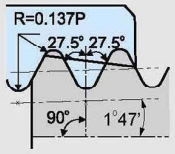
L type

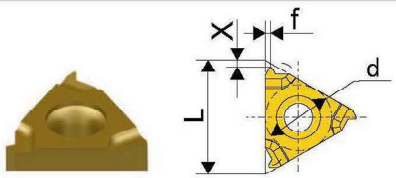
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	16NR-36W	16NL-36W	36	9.525	16	0.6	0.6	★	★	★	★
	16NR-32W	16NL-32W	32	9.525	16	0.6	0.6	★	★	★	★
	16NR-30W	16NL-30W	30	9.525	16	0.6	0.7	★	★	★	★
	16NR-28W	16NL-28W	28	9.525	16	0.6	0.7	★	★	★	★
	16NR-26W	16NL-26W	26	9.525	16	0.7	0.8	★	★	★	★
	16NR-24W	16NL-24W	24	9.525	16	0.7	0.8	★	★	★	★
	16NR-22W	16NL-22W	22	9.525	16	0.8	0.9	★	★	★	★
	16NR-20W	16NL-20W	20	9.525	16	0.8	0.9	★	★	★	★
	16NR-19W	16NL-19W	20	9.525	16	0.8	1	★	★	★	★
	16NR-18W	16NL-18W	18	9.525	16	0.8	1	★	★	★	★
	16NR-16W	16NL-16W	16	9.525	16	0.9	1.1	★	★	★	★
	16NR-14W	16NL-14W	14	9.525	16	1	1.2	★	★	★	★
	16NR-12W	16NL-12W	12	9.525	16	1.1	1.4	★	★	★	★
	16NR-11W	16NL-11W	11	9.525	16	1.1	1.5	★	★	★	★
	16NR-10W	16NL-10W	10	9.525	16	1.1	1.5	★	★	★	★
	16NR-9W	16NL-9W	9	9.525	16	1.2	1.7	★	★	★	★
	16NR-8W	16NL-8W	8	9.525	16	1.2	1.5	★	★	★	★
	22NR-7W	22NL-7W	7	12.7	22	1.6	2.3	★	★	★	★
	22NR-6W	22NL-6W	6	12.7	22	1.6	2.3	★	★	★	★
	22NR-5W	22NL-5W	5	12.7	22	1.7	2.4	★	★	★	★
	27NR-4.5W	27NL-4.5W	4.5	15.875	27	1.8	2.6	★	★	★	★
	27NR-4W	27NL-4W	4	15.875	27	2.1	2.9	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

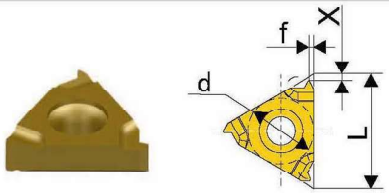
BSP inch thread

ISO 7/1:1994
B.S.21:1985
Standard BSPT





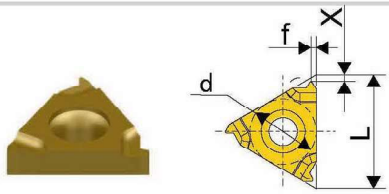
Rtype



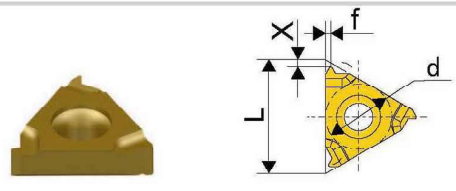
Ltype

Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
External	11ER-28BSPT	11NL-28BSPT	28	6.35	11	0.6	0.6	★	★	★	★
	11ER-19BSPT	11NL-28BSPT	19	6.35	11	0.8	0.9	★	★	★	★
	11ER-14BSPT	11NL-14BSPT	14	6.35	11	0.9	1	★	★	★	★
	16ER-28BSPT	16NL-28BSPT	28	9.525	16	0.6	0.6	★	★	★	★
	16ER-19BSPT	16NL-19BSPT	19	9.525	16	0.8	0.9	★	★	★	★
	16ER-14BSPT	16NL-14BSPT	14	9.525	16	1	1.2	★	★	★	★
	16ER-11BSPT	11NL-11BSPT	11	9.525	16	1.1	1.5	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order



Rtype



Ltype

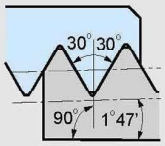
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	11NR-28BSPT	11NL-28BSPT	28	6.35	11	0.6	0.6	★	★	★	★
	11NR-19BSPT	11NL-28BSPT	19	6.35	11	0.8	0.9	★	★	★	★
	11NR-14BSPT	11NL-14BSPT	14	6.35	11	0.9	1	★	★	★	★
	16NR-28BSPT	16NL-28BSPT	28	9.525	16	0.6	0.6	★	★	★	★
	16NR-19BSPT	16NL-19BSPT	19	9.525	16	0.8	0.9	★	★	★	★
	16NR-14BSPT	16NL-14BSPT	14	9.525	16	1	1.2	★	★	★	★
	16NR-11BSPT	11NL-11BSPT	11	9.525	16	1.1	1.5	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

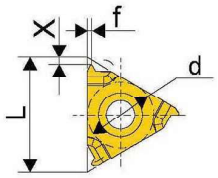
TURNING Threading Inserts

U. S. 60° spinal canal thread NPT

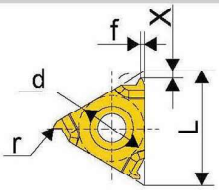
ASME B1. 20. 1-1983
Standard NPT



Rtype



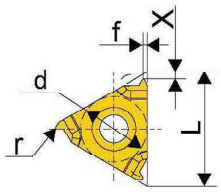
Ltype



Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
External	11ER-27NPT	11EL-27NPT	27	6. 35	11	0. 7	0. 8	★	★	★	★
	11ER-18NPT	11EL-18NPT	18	6. 35	11	0. 8	1	★	★	★	★
	11ER-14NPT	11EL-14NPT	14	6. 35	11	0. 8	1	★	★	★	★
	16ER-28NPT	16EL-28NPT	28	9. 525	16	0. 7	0. 8	★	★	★	★
	16ER-18NPT	16EL-18NPT	18	9. 525	16	0. 8	1	★	★	★	★
	16ER-14NPT	16EL-14NPT	14	9. 525	16	0. 9	1. 2	★	★	★	★
	16ER-11. 5NPT	11EL-11. 5NPT	11. 5	9. 525	16	1. 1	1. 5	★	★	★	★
	16ER-8NPT	11EL-8NPT	8	9. 525	16	1. 3	1. 8	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

Rtype



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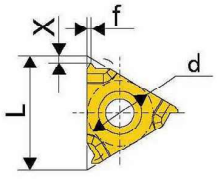
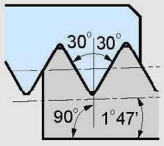


Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	11NR-27NPT	11NL-27NPT	27	6. 35	11	0. 7	0. 8	★	★	★	★
	11NR-18NPT	11NL-18NPT	18	6. 35	11	0. 8	1	★	★	★	★
	11NR-14NPT	11NL-14NPT	14	6. 35	11	0. 8	1	★	★	★	★
	16NR-28NPT	16NL-28NPT	28	9. 525	16	0. 7	0. 8	★	★	★	★
	16NR-18NPT	16NL-18NPT	18	9. 525	16	0. 8	1	★	★	★	★
	16NR-14NPT	16NL-14NPT	14	9. 525	16	0. 9	1. 2	★	★	★	★
	16NR-11. 5NPT	11NL-11. 5NPT	11. 5	9. 525	16	1. 1	1. 5	★	★	★	★
	16NR-8NPT	11NL-8NPT	8	9. 525	16	1. 3	1. 8	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

American dry sealing straight pipe thread NPTF

NPTF60°
Standard: ANSI B1.20.1-1983
tolerance grade: two grades



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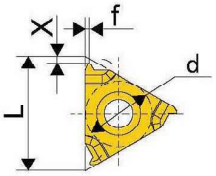

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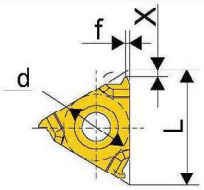
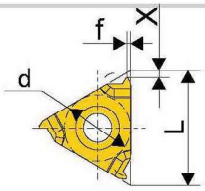


Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
External	11ER-27NPTF	11EL-27NPTF	27	6.35	11	0.7	0.8	★	★	★	★
	11ER-18NPTF	11EL-18NPTF	18	6.35	11	0.8	1	★	★	★	★
	11ER-14NPTF	11EL-14NPTF	14	6.35	11	0.8	1	★	★	★	★
	16ER-28NPTF	16EL-28NPTF	28	9.525	16	0.7	0.8	★	★	★	★
	16ER-18NPTF	16EL-18NPTF	18	9.525	16	0.8	1	★	★	★	★
	16ER-14NPTF	16EL-14NPTF	14	9.525	16	0.9	1.2	★	★	★	★
	16ER-11.5NPTF	11EL-11.5NPTF	11.5	9.525	16	1.1	1.5	★	★	★	★
	16ER-8NPTF	11EL-8NPTF	8	9.525	16	1.3	1.8	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

Rtype



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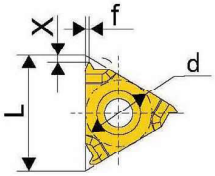


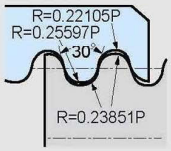
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	11NR-27NPTF	11NL-27NPTF	27	6.35	11	0.7	0.8	★	★	★	★
	11NR-18NPTF	11NL-18NPTF	18	6.35	11	0.8	1	★	★	★	★
	11NR-14NPTF	11NL-14NPTF	14	6.35	11	0.8	1	★	★	★	★
	16NR-28NPTF	16NL-28NPTF	28	9.525	16	0.7	0.8	★	★	★	★
	16NR-18NPTF	16NL-18NPTF	18	9.525	16	0.8	1	★	★	★	★
	16NR-14NPTF	16NL-14NPTF	14	9.525	16	0.9	1.2	★	★	★	★
	16NR-11.5NPTF	11NL-11.5NPTF	11.5	9.525	16	1.1	1.5	★	★	★	★
	16NR-8NPTF	11NL-8NPTF	8	9.525	16	1.3	1.8	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

TURNING Threading Inserts

DIN405 Round tooth thread

DIN 405
tolerance grade: 7级



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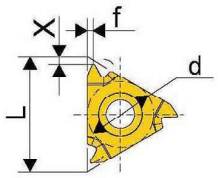

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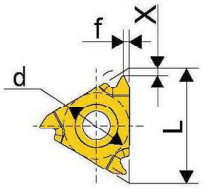
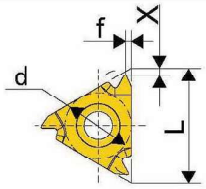


Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Extemal	16ER-10RD	16EL-10RD	10	9.525	16	1.1	1.2	★	★	★	★
	16ER-8RD	16EL-8RD	8	9.525	16	1.4	1.3	★	★	★	★
	16ER-6RD	16EL-6RD	6	9.525	16	1.5	1.7	★	★	★	★
	22ER-6RD	22EL-6RD	6	12.7	22	1.5	1.7	★	★	★	★
	22ER-4RD	22EL-4RD	4	12.7	22	2.2	2.3	★	★	★	★
	27ER-4RD	27EL-4RD	4	15.875	27	2.2	2.3	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

Rtype



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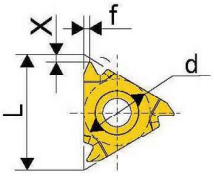
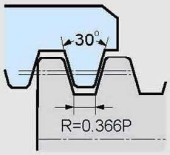


Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	16ER-10RD	16EL-10RD	10	9.525	16	1.1	1.2	★	★	★	★
	16ER-8RD	16EL-8RD	8	9.525	16	1.4	1.3	★	★	★	★
	16ER-6RD	16EL-6RD	6	9.525	16	1.5	1.7	★	★	★	★
	22ER-6RD	22EL-6RD	6	12.7	22	1.5	1.7	★	★	★	★
	22ER-4RD	22EL-4RD	4	12.7	22	2.2	2.3	★	★	★	★
	27ER-4RD	27EL-4RD	4	15.875	27	2.2	2.3	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

DINI103 Acme screw thread

ISO 2901-2904
tolerance grade: 7级



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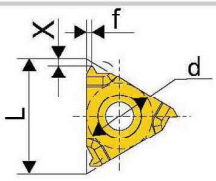

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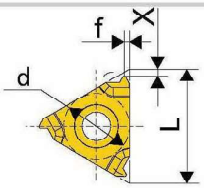
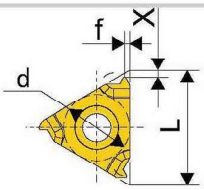


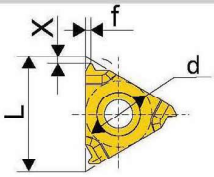
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
External	11ER-1.5TR	11EL-1.5TR	1.5	6.35	11	0.8	0.9	★	★	★	★
	16ER-1.5TR	16EL-1.5TR	1.5	9.525	16	1	1.1	★	★	★	★
	16ER-2.0TR	16EL-2.0TR	2	9.525	16	1.1	1.3	★	★	★	★
	16ER-3.0TR	16EL-3.0TR	3	9.525	16	1.3	1.5	★	★	★	★
	22ER-4.0TR	22EL-4.0TR	4	12.7	22	1.7	1.9	★	★	★	★
	22ER-5.0TR	22EL-5.0TR	5	12.7	22	2.1	2.5	★	★	★	★
	27ER-6.0TR	27ER-6.0TR	6	15.875	27	2.3	2.7	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

R type



L type



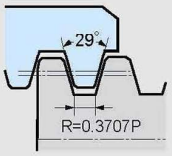
Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended grade		Recommended grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	11NR-1.5TR	11NL-1.5TR	1.5	6.35	11	0.8	0.9	★	★	★	★
	16NR-1.5TR	16NL-1.5TR	1.5	9.525	16	1	1.1	★	★	★	★
	16NR-2.0TR	16NL-2.0TR	2	9.525	16	1.1	1.3	★	★	★	★
	16NR-3.0TR	16NL-3.0TR	3	9.525	16	1.3	1.5	★	★	★	★
	22NR-4.0TR	22NL-4.0TR	4	12.7	22	1.7	1.9	★	★	★	★
	22NR-5.0TR	22NL-5.0TR	5	12.7	22	2.1	2.5	★	★	★	★
	27NR-6.0TR	27NR-6.0TR	6	15.875	27	2.3	2.7	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

TURNING Threading Inserts

Whitworth thread

ANSI B1.5-1988 ANSI B1.5-1988
tolerance grade: 2G



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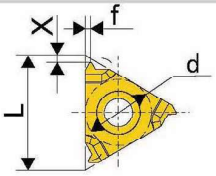

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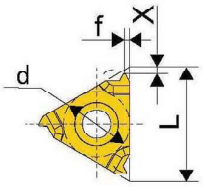
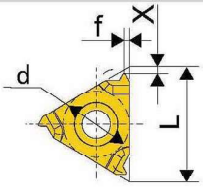


Type	Oesignnation Right	Oesignnation Left	TPI	尺寸Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
External	11ER-16ACME	11EL-16ACMT	16	6.35	11	1	1.1	★	★	★	★
	16ER-16ACME	16EL-16ACME	16	9.525	16	1	1.1	★	★	★	★
	16ER-14ACME	16EL-14ACME	14	9.525	16	1	1.2	★	★	★	★
	16ER-12ACME	16EL-12ACME	12	9.525	16	1.1	1.2	★	★	★	★
	16ER-10ACME	16EL-10ACME	10	9.525	16	1.3	1.4	★	★	★	★
	16ER-8CME	16EL-8ACME	8	9.525	16	1.4	1.5	★	★	★	★
	16ER-6ACME	16EL-6ACME	6	9.525	16	1.7	1.9	★	★	★	★
	22ER-6ACME	22EL-6ACME	6	12.7	22	1.8	2.1	★	★	★	★
	22ER-5ACME	22EL-5ACME	5	12.7	22	2	2.3	★	★	★	★
	27ER-4ACME	27EL-4ACME	4	15.875	27	2.4	2.7	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

R type



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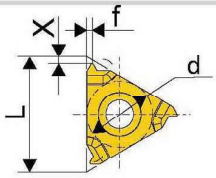

Type	Oesignnation Right	Oesignnation Left	TPI	Dimensions (mm)				Recommended coating grade		Recommended coating grade	
				d	L	X	f	SD1025		SD1125	
								R	L	R	L
Internal	11NR-16ACME	11NL-16ACMT	16	6.35	11	1	1.1	★	★	★	★
	16NR-16ACME	16NL-16ACME	16	9.525	16	1	1.1	★	★	★	★
	16NR-14ACME	16NL-14ACME	14	9.525	16	1	1.2	★	★	★	★
	16NR-12ACME	16NL-12ACME	12	9.525	16	1.1	1.2	★	★	★	★
	16NR-10ACME	16NL-10ACME	10	9.525	16	1.3	1.4	★	★	★	★
	16NR-8CME	16NL-8ACME	8	9.525	16	1.4	1.5	★	★	★	★
	16NR-6ACME	16NL-6ACME	6	9.525	16	1.7	1.9	★	★	★	★
	22NR-6ACME	22NL-6ACME	6	12.7	22	1.8	2.1	★	★	★	★
	22NR-5ACME	22NL-5ACME	5	12.7	22	2	2.3	★	★	★	★
	27NR-4ACME	27NL-4ACME	4	15.875	27	2.3	2.6	★	★	★	★

★ Recommended grade (always stock available) ☆ Available grade ○ Make-to-order

MILLING

Indexable Milling Tools

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Grade Classification for Milling Inserts	B10–B11
Indexable Milling Inserts Specification	B12–B48
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