
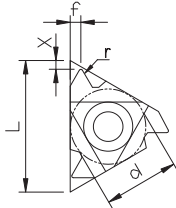
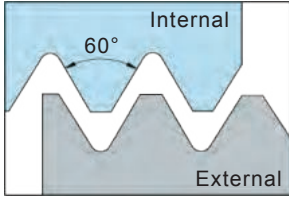



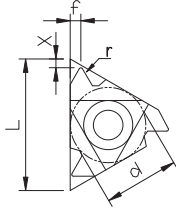
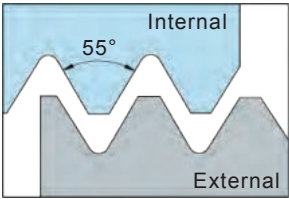
Partial profile  
60° thread angle

Grade: TG3225

						(mm)	
Type	Order No.	Pitch	Dimension (mm)				
			L	X	f	r	d
External	16ERA60-TC	0.5-1.5	16	0.8	0.9	0.08	9.525
	16ERAG60-TC	0.5-3.0	16	1.1	1.5	0.08	9.525
	16ERG60-TC	1.75-3.0	16	1.2	1.7	0.25	9.525
	22ERN60-TC	3.5-5.0	22	1.7	2.5	0.51	12.7
Internal	11IRA60-TC	0.5-1.5	11	0.8	0.9	0.08	6.35
	16IRA60-TC	0.5-1.5	16	0.8	0.9	0.08	9.525
	16IRAG60-TC	0.5-3.0	16	1.1	1.5	0.08	9.525
	16IRG60-TC	1.75-3.0	16	1.2	1.7	0.13	9.525
	22IRN60-TC	3.5-5.0	22	1.7	2.5	0.25	12.7

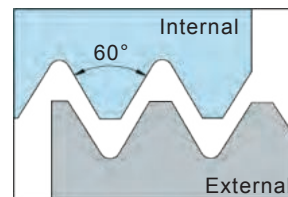
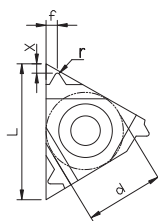
Partial profile  
55° thread angle

Grade: TG3225

						(mm)	
Type	Order No.	Pitch	Dimension (mm)				
			L	X	f	r	d
External	16ERA55-TC	48-16	16	0.8	0.9	0.08	9.525
	16ERAG55-TC	48-8	16	1.1	1.5	0.08	9.525
	16ERG55-TC	14-8	16	1.2	1.7	0.21	9.525
	22ERN55-TC	7-5	22	1.7	2.5	0.44	12.7
Internal	11IRA55-TC	48-16	11	0.8	0.9	0.08	6.35
	16IRA55-TC	48-16	16	0.8	0.9	0.08	9.525
	16IRAG55-TC	48-8	16	1.1	1.5	0.08	9.525
	16IRG55-TC	14-8	16	1.2	1.7	0.21	9.525
	22IRN55-TC	7-5	22	1.7	2.5	0.44	12.7

Full profile  
ISO Metric

Grade: TG3225



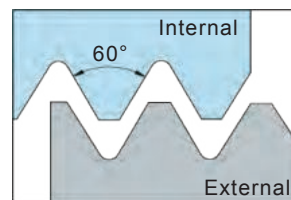
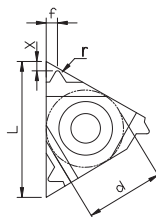
(mm)

Type	Order No.	Pitch	Dimension (mm)				
			L	X	f	r	d
External	16ER1.00ISO-TC	1	16	0.8	0.7	0.14	9.525
	16ER1.25ISO-TC	1.25	16	0.8	0.9	0.18	9.525
	16ER1.50ISO-TC	1.5	16	0.8	1	0.22	9.525
	16ER1.75ISO-TC	1.75	16	1.2	1.2	0.25	9.525
	16ER2.00ISO-TC	2	16	1.2	1.3	0.29	9.525
	16ER2.50ISO-TC	2.5	16	1.2	1.5	0.36	9.525
	16ER3.00ISO-TC	3	16	1.2	1.5	0.43	9.525
	22ER3.50ISO-TC	3.5	22	1.6	2.3	0.45	12.7
	22ER4.00ISO-TC	4	22	1.6	2.3	0.52	12.7
	22ER4.50ISO-TC	4.5	22	1.7	2.4	0.58	12.7
	22ER5.00ISO-TC	5	22	1.7	2.5	0.63	12.7
Internal	11IR1.00ISO-TC	1	11	0.8	0.7	0.07	6.35
	11IR1.25ISO-TC	1.25	11	0.8	0.9	0.09	6.35
	11IR1.50ISO-TC	1.5	11	0.8	1	0.11	6.35
	11IR1.75ISO-TC	1.75	11	0.9	1.1	0.13	6.35
	11IR2.00ISO-TC	2	11	0.9	1.1	0.15	6.35
	16IR1.00ISO-TC	1	16	0.8	0.7	0.07	9.525
	16IR1.25ISO-TC	1.25	16	0.8	0.9	0.09	9.525
	16IR1.50ISO-TC	1.5	16	0.8	1	0.11	9.525
	16IR1.75ISO-TC	1.75	16	1.2	1.2	0.13	9.525
	16IR2.00ISO-TC	2	16	1.2	1.3	0.15	9.525
	16IR2.50ISO-TC	2.5	16	1.2	1.5	0.18	9.525
	16IR3.00ISO-TC	3	16	1.2	1.5	0.22	9.525
	22IR3.50ISO-TC	3.5	22	1.6	2.3	0.22	12.7
	22IR4.00ISO-TC	4	22	1.6	2.3	0.25	12.7
	22IR4.50ISO-TC	4.5	22	1.6	2.4	0.28	12.7
22IR5.00ISO-TC	5	22	1.6	2.3	0.32	12.7	

Insert  
External Toolholder  
Internal Toolholder  
Threading  
Parting, Grooving  
Miniature Tool

Full profile  
Unified

Grade: TG3225

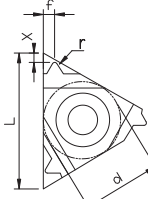
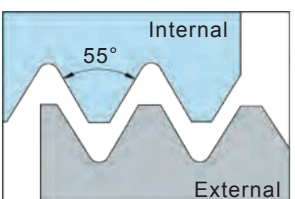


(mm)

Type	Order No.	Pitch	Dimension (mm)				
			L	X	f	r	d
External	16ER24UN-TC	24	16	0.8	0.8	0.15	9.525
	16ER20UN-TC	20	16	0.8	0.9	0.18	9.525
	16ER18UN-TC	18	16	0.8	1	0.2	9.525
	16ER16UN-TC	16	16	0.9	1.1	0.23	9.525
	16ER14UN-TC	14	16	1.2	1.5	0.26	9.525
	16ER12UN-TC	12	16	1.2	1.5	0.31	9.525
	16ER10UN-TC	10	16	1.2	1.5	0.37	9.525
	16ER8UN-TC	8	16	1.3	1.7	0.46	9.525
Internal	11IR20UN-TC	20	11	0.8	0.9	0.09	6.35
	11IR18UN-TC	18	11	0.8	1	0.1	6.35
	16IR24UN-TC	24	16	0.8	0.8	0.08	9.525
	16IR20UN-TC	20	16	0.8	0.9	0.09	9.525
	16IR18UN-TC	18	16	0.8	1	0.1	9.525
	16IR16UN-TC	16	16	0.9	1.1	0.12	9.525
	16IR14UN-TC	14	16	1.2	1.5	0.13	9.525
	16IR12UN-TC	12	16	1.2	1.5	0.16	9.525
	16IR10UN-TC	10	16	1.2	1.5	0.19	9.525
	16IR8UN-TC	8	16	1.3	1.7	0.23	9.525

Full profile  
Whitworth

Grade: TG3225

				 				(mm)
Type	Order No.	Pitch	Dimension (mm)					
			L	X	f	r	d	
External	16ER19W-TC	19	16	0.8	1	0.17	9.525	
	16ER14W-TC	14	16	1.2	1.5	0.24	9.525	
	16ER11W-TC	11	16	1.2	1.5	0.3	9.525	
Internal	16IR19W-TC	19	16	0.8	1	0.17	9.525	
	16IR14W-TC	14	16	1.2	1.5	0.24	9.525	
	16IR11W-TC	11	16	1.2	1.5	0.3	9.525	

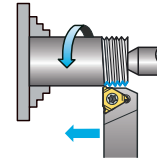
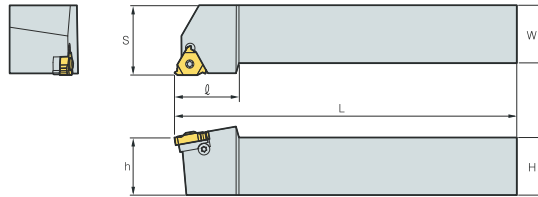
Standard Cutting Conditions

ISO	Workpiece Material		Vc(m/min)
P	Non-Alloy steel	<0.25%C	120-230
		0.25%C- 0.55%C	100-195
		≥0.55%C	90-180
	Low Alloy Steel		60-180
	High Alloy Steel		70-140
M	Martensitic Stainless Steel		70-170
	Austenitic Stainless Steel		90-140
K	Grey Cast Iron		80-160
	Ductile Cast Iron		80-160
N	Cast Aluminum Alloy		100-500
	Aluminum Alloy		300-700
	Copper Alloy		80-300
S	Heat-resistance Alloy		10-50
	Titanium Alloy		50-70
H	Hardened Alloy	45-50 HRC	40-50
		51-55 HRC	30-50

Insert  
 External Toolholder  
 Internal Toolholder  
 Threading  
 Parting, Grooving  
 Miniature Tool

External Threading Toolholders

**SER**  
(Screw on system)

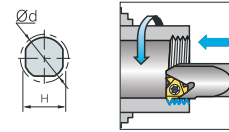
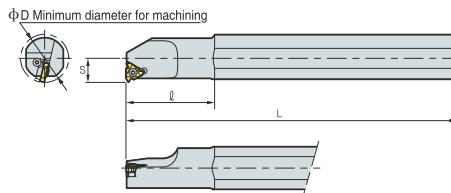


Righthand drawing  
(mm)

Order No.	Dimension (mm)					Insert	Pin	Shim	Wrench	Screw
	H	W	S	L	h					
SER-1212H16	12	12	16	100	12	16ER..	ST3509	-	T15	-
SER-1616H16	16	16	20	100	16		ST3512	STM16	T15 L2.5	ST3006N
SER-2020K16	20	20	25	125	20					
SER-2525M16	25	25	32	150	25					
SER-3232P16	32	32	40	170	32					
SER-2525M22	25	25	32	150	25	22ER..	ST4016	STM22	T20 L3	ST4006N
SER-3232P22	32	32	40	170	32					

Internal Threading Bars

**SNR**  
(Screw on system)



Righthand drawing

(mm)

Order No.	Dimension (mm)						Insert	Pin	Shim	Wrench	Screw
	D	d	L	S	H	I					
SNR-0008K11	11	8	125	5.5	7	20	11IR..	ST2508	-	T8	-
SNR-0010K11	13	10	125	6.5	9	22					
SNR-0012K11	15	12	125	7.5	11	26					
SNR-0016Q16	19	16	180	10	15	36	16IR..	ST3509	-	T15	-
SNR-0020R16	24	20	200	12	18	40					
SNR-0025R16	29	25	200	14.5	23	45					
SNR-0032T16	36	32	300	18.5	30	45					
SNR-0040T16	44	40	300	22	37	60					
SNR-0020R22	23	20	200	11.5	18	40	22IR..	ST4016	STM22	T20 L3	ST4006N
SNR-0025S22	31	25	250	16	23	45					
SNR-0032T22	38	32	300	19.5	30	45					
SNR-0040T22	46	40	300	24	37	60					