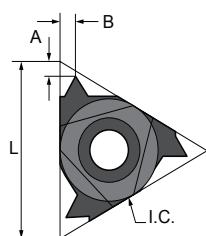
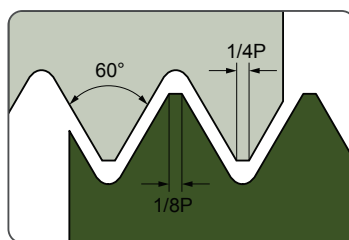
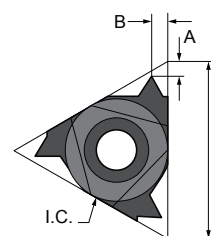


ISO METRIC

Designation		Pitch		Dimensions			Catalog Nr.
EX / IN	Grade	mm	L mm	I.C.	A	B	
ISO 1.0 IR11	LT10	1.00	11	6.350	0.7	0.7	TH000028
ISO 1.5 IR11	LT10	1.50	11	6.350	0.8	1.0	TH000031
ISO 2.0 IR11	LT10	2.00	11	6.350	0.8	0.9	TH000034
ISO 1.0 ER16	LT10	1.00	16	9.525	0.7	0.7	TH000037
ISO 1.0 IR16	LT10	1.00	16	9.525	0.7	0.7	TH000040
ISO 1.25 ER16	LT10	1.25	16	9.525	0.8	0.9	TH000043
ISO 1.25 IR16	LT10	1.25	16	9.525	0.8	0.9	TH000046
ISO 1.5 ER16	LT10	1.50	16	9.525	0.8	1.0	TH000049
ISO 1.5 IR16	LT10	1.50	16	9.525	0.8	1.0	TH000052
ISO 1.75 ER16	LT10	1.75	16	9.525	0.9	1.2	TH000055
ISO 2.0 ER16	LT10	2.00	16	9.525	1.0	1.3	TH000058
ISO 2.0 IR16	LT10	2.00	16	9.525	1.0	1.3	TH000061
ISO 2.5 ER16	LT10	2.50	16	9.525	1.1	1.5	TH000064
ISO 2.5 IR16	LT10	2.50	16	9.525	1.1	1.5	TH000067
ISO 3.0 ER16	LT10	3.00	16	9.525	1.2	1.5	TH000070
ISO 3.0 IR16	LT10	3.00	16	9.525	1.2	1.5	TH000073



External Right

ISO Metric ISO 965-1:1999-11
DIN 13: 2005-08

Internal Right

Material Group		Gr. N°	VDI Group	Material Examples*	Hardness	Vc [m/min]	
						min	max
Steel	Non-alloyed	1	1	C35, Ck45, 1020,	125 HB	120	200
			2	1045, 1060,	190 HB	110	180
			3	28Mn6	250 HB	100	170
	Low alloyed	2	6	42CrMo4, St50, Ck60, 4140, 4340, 100Cr6	180 HB	100	170
			4,6		230 HB	100	170
			5,7		280 HB	70	120
			8		350 HB	60	90
	High alloyed	3	10	X40CrMoV5, H13, M42, D3, S6-5-2, 12Ni19	220 HB	100	170
			10		280 HB	100	170
			11		320 HB	70	120
			11		350 HB	60	90
Stainless Steel	Austenitic	4	14	304, 316, X5CrNi18-9	180 HB	70	140
			14		240 HB	80	120
	Duplex	5	14	X2CrNiN23-4, S31500	290 HB	50	110
			14		310 HB	50	110
	Ferritic & Martensitic	6	12	410, X6Cr17, 17-4 PH, 430	200 HB	70	140
			13		42 HRc	50	110
Cast Iron	Grey	7	15	GG20, GG40, EN-GJL-250, No30B	150 HB	70	150
			15		200 HB	100	140
			16		250 HB	70	120
	Malleable & Nodular	8	17,19	GGG40, GGG70, 50005	150 HB	70	150
			17,19		200 HB	100	140
			18,20		250 HB	70	120
High Temp. Alloys	Fe, Ni & Co based	9	31,32	Incoloy 800	240 HB	40	60
			33	Inconel 700	250 HB	30	50
			34	Stellite 21	350 HB	20	35
	Ti based	10	36	TiAl6V4	-	50	70
			37	T40	-	40	60
Hardened Mat.	Steel	11	38	X100CrMo13, 440C, G-X260NiCr42	45 HRc	25	50
			38		50 HRc	25	50
			38		55 HRc	25	35
	Chilled Cast Iron	11	40	Ni-Hard 2	400 HB	25	35
	White Cast Iron		41	G-X300CrMo15	55 HRc	25	35
NF	Al (>8%Si)	12	25	AlSi12	130 HB	100	400

Pitch		Passes	
mm	TPI	min	max
0.5	48	4	6
1.0	24	4	9
1.5	16	5	11
2.0	12	7	12
2.5	10	8	15
3.0	8	12	22