



IGUTENSILI
HIGH PRECISION CUTTING TOOLS

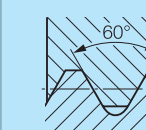
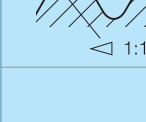
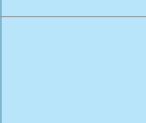
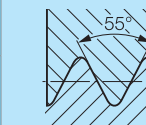
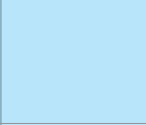
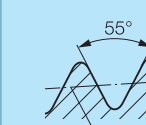
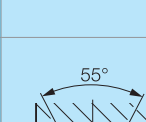
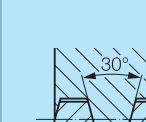
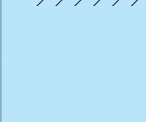
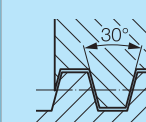
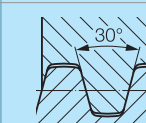
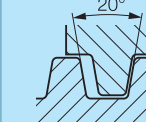
Standard thread profiles

Profili standard di filettatura - Genormte Gewindeprofile



THREADS ACCORDING TO DIN STANDARDS OR ISO, STANDARDS THREADS ACCORDING TO FOREIGN STANDARDS

Filettature secondo norme DIN o norme ISO, filettature secondo norme straniere / Gewinde nach DIN-Normen oder ISO-Normen Gewinde nach ausländischen Normen

DESIGNATION	PROFILE	CODE LETTERS	SHORT NAME EXAMPLES	NOMINAL SIZE	ACCORDING TO STANDARD	APPLICATION			
Metric ISO thread (single and multiple starts) Filettatura metrica ISO (principio singolo e multiplo) Metrisches ISO- Gewinde (ein- und mehrgängig)		M	M 0,8 - 3G 6H	0,3 mm to 0,9 mm	DIN 14-1 to DIN 14-4	For watch and precision engineering			
			M 8 - 6H	1 mm to 68 mm	DIN 13-1 DIN ISO 965-1	general (standard thread)			
			M 24 x 6 P 3 - 6H		DIN 13-52 (multi-course)				
			M 6 x 0,75 - 6H M 8 x 1 - 6H - LH	1 mm to 100 mm	DIN 13-2 bis DIN 13-11 DIN ISO 965-1	general (fine thread)			
M 24 x 4 P 2 - 6H				DIN 13-52 (multi-course)					
Metric ISO thread with transition tolerance field (formerly thread for fixed fit) Filettatura metrica ISO con campo di tolleranza (precedentemente filettatura fissaggio fisso) Metr ISO-Gewinde mit Übergangstoleranzfeld (früher Gewinde für Festsitz)			M 3 - 4H6H M 30 x 2 - 4H5H	1,6 mm to 200 mm	LN 9163	for Aerospace			
			M 63 x 1,5 - 7H	6 mm to 110 mm	DIN EN 60423 or DIN EN 50262	Electrical installation pipes			
Metric thread with large clearance Filettatura metrica con ampio gioco Metrisches Gewinde mit großem Spiel				M 10 Sn 4 M 10 Sk 6	1 mm to 150 mm	DIN 13-51	for screw ends on stud screws	not close connection	
				M 10 Sn 4 close	1 mm to 150 mm		close connection on stud screws		
				M 36 DIN 2510	12 mm to 180 mm	DIN 2510	Screw connections with expansion shaft		
Metric ISO Thread, Mounting thread for thread inserts Filettatura metrica ISO, Filettatura di montaggio per inserti filettati Metrisches ISO-Gewinde, Aufnahmegewinde für Gewindeeinsätze		EG M	EG M 20 - 6H mod	2 mm to 52 mm	DIN 8140	Mounting thread (regular and fine thread) for wire thread inserts			
Metric ISO thread for fixed fit. Filettatura metrica ISO per fissaggio fisso Metrisches ISO-Gewinde für Festsitz		MFS	MFS 12 x 1,5	5 mm to 16 mm	DIN 8141	for tight fit in cast aluminum alloys (regular and fine thread)			
Metric tapered external thread. Filettatura esterna conica metrica. Metrisches kegeliges Außengewinde		M	M 30 x 2 keg	6 mm to 60 mm	DIN 158	for closure screws and grease nipples			
			M 30 x 2 keg short						
Filettatura MJ (raggio del nucleo ingrandito o diametro del nucleo rispetto alla filettatura M) MJ thread (enlarged core radius or core diameter compared to M thread) MJ-Gewinde (vergrößerter Kernradius bzw. Kern-ø gegenüber dem M- Gewinde)		MJ	MJ 6 x 1 - 4h6h	1,6 mm to 39 mm	DIN ISO 5855	Aerospace			
			MJ 6 x 1 - 4H5H						
Cylindrical pipe thread for non-sealing connections Filettatura cilindrica per tubi per connessioni non sigillanti Zylindrisches Rohrgewinde für nicht im Gewinde dichtende Verbindungen		G $\triangle$ PF (BSP, BSPP)	G 1 1/2 A G 1 1/2 B	1/16 to 6	DIN EN ISO 228	external thread	for pipes, pipe fittings, and valves		
			G 1 1/2			internal thread.			
Cylindrical pipe thread for sealing connections Filettatura cilindrica per tubi per connessioni sigillanti zylindrisches Rohrgewinde für im Gewinde dichtende Verbindungen		Rp $\triangle$ PS (BSPP)	Rp 1/2	1/16 to 6	DIN EN 10226	internal thread for threaded pipes and fittings			
			Rp 1/8	1/8 to 1 1/2	DIN 3858	internal thread for pipe fittings (not identical to DIN EN 10226)			
Tapered pipe thread for sealing connections Filettatura conica per tubi per connessioni sigillanti Kegeliges Rohrgewinde für im Gewinde dichtende Verbindungen		R	R 1/2	1/16 to 6	DIN EN 10226	external thread for threaded pipes and fittings			
			R 1/8 - 1	1/8 to 1 1/2	DIN 3858	external thread for pipe fittings (not identical to DIN EN 10226)			
Tapered pipe thread for sealing connections Filettatura conica per tubi per connessioni sigillanti Kegeliges Rohrgewinde für im Gewinde dichtende Verbindungen		Rc $\triangle$ PT (BSPT)	Rc 1/2	1/16 to 6	DIN EN 10226	internal thread for threaded pipes and fittings			
Metric ISO trapezoidal thread (single and multiple starts) Filettatura trapezoidale metrica ISO (principio singolo e multiplo) Metrisches ISO- Trapezgewinde (ein- und mehrgängig)		Tr	Tr 40 x 7 - 7H		DIN 103	general			
			Tr 40 x 14 P 7 - 7H						
			Tr 40 x 7 DIN 380	8 mm to 300 mm	DIN 380				
			Flat metric trapezoidal thread (single and multiple starts) Filettatura trapezoidale metrica piatta (a passo singolo e multiplo) Flaches Metrisches Trapezgewinde (ein- und mehrgängig)			Tr 40 x 14 P 7 DIN 380			DIN 263
Tr 48 x 12 DIN 263	48 mm								
Trapezoidal thread (single and multiple starts) with backlash Filettatura trapezoidale (principio singolo e multiplo) con gioco. Trapezgewinde (ein- und zweigängig) mit Spiel			Tr 40 x 16 P 8 DIN 263	40 mm	DIN 6341	for (pull-) collets			
			Tr 32x1,5-7H DIN 6341	12 mm to 32 mm					
Rounded trapezoidal thread Filettatura trapezoidale arrotondata Gerundetes Trapezgewinde			Tr 40 x 5 DIN 30295	26 mm to 80 mm	DIN 30295	for rail vehicles			
Trapezoidal thread Filettatura trapezoidale Trapezgewinde		KT	KT 22 DIN 6063	10 mm to 50 mm	DIN 6063-2	for plastic containers in packaging industry			
Metric saw thread (single and multi-start) Filettatura metrica per seghe (singola e multipla) Metrisches Sägewinde (ein- und mehrgängig)			S 48 x 8 - 7H	10 mm to 640 mm	DIN 513				
			S 40 x 14 P 7 - 7H						
Filettatura per seghe 45° Saw thread 45° Sägewinde 45°		S	S 630 x 20 DIN 2781	100 mm to 1250 mm	DIN 2781	for hydraulic presses			
Self-forming tapered external thread Filettatura esterna conica autofornante selbstformendes kegeliges Außengewinde			S 8 x 1 DIN 71412	6 mm to 10 mm	DIN 71412	for conical grease nipples			

DESIGNATION	PROFILE	CODE LETTERS	SHORT NAME EXAMPLES	NOMINAL SIZE	ACCORDING TO STANDARD	APPLICATION	
Saw thread Filettatura per seghe Sägewinde		S	S 25 x 1,5 DIN 20401	6 mm to 40 mm	DIN 20401	in mining	
		S	S 22 (nut thread)			for plastic and glass containers in packaging	
		GS	GS 22 (bolt thread)	10 mm to 50 mm	DIN 55525		
		KS	KS 22 (bolt thread)			for plastic containers in packaging	
		KS	KS 22 DIN 6063	10 mm to 60 mm	DIN 6063-1		
Cylindrical round thread (single and multiple starts) Filettatura cilindrica rotonda (principio singolo e multiplo) Zylindrisches Rundgewinde (ein- und mehrgängig)		Rd	Rd 40 x 1/6 - 7H Rd 40 x 1/3 P 1/6 - 7H	8 mm to 200 mm	DIN 405	general	
			Rd 40 x 5 DIN 20400	10 mm to 300 mm	DIN 20400	with a large load-bearing depth, in mining	
			Rd 80 x 10 DIN 15403	50 mm to 320 mm	DIN 15403	for load hooks	
Cylindrical round thread Filettatura cilindrica rotonda Zylindrisches Rundgewinde		Rd	Rd 70 DIN 7273	20 mm to 100 mm	DIN 7273-1	for sheet metal parts and related parts screw connections	
Cylindrical round thread with clearance and steep flank, with a pitch of 7 mm Filettatura cilindrica rotonda con gioco e flangia ripida, con passo di 7 mm zylindrisches Rundgewinde mit Spiel und steiler Flanke, mit Steigung 7 mm.		Rd	Rd 59 x 7 DIN 262	34 mm to 79 mm, with gradient 7 mm	DIN 262	for rail vehicles	
			Rd 59 x 7 left DIN 262				
Cylindrical round thread with clearance and flat flank, with a pitch of 7 mm Filettatura cilindrica rotonda con gioco e flangia piatta, con passo di 7 mm Zylindrisches Rundgewinde mit Spiel und flacher Flanke, mit Steigung 7 mm.		Rd	Rd 50 x 7 DIN 264	50 mm, with gradient 7 mm	DIN 264	for rail vehicles	
			Rd 50 x 7 left DIN 264				
Cylindrical round thread Filettatura cilindrica rotonda Zylindrisches Rundgewinde		Rd	Rd 110 x 1/3 DIN 3182	110 mm	DIN 3182	for breathing apparatus and diving equipment	
			Rd 40x1/7 DIN EN 148-1	40 mm	DIN EN 148-1	for respiratory protective devices	
Electrical thread Filettatura elettrica Elektrogewinde		E	E 27 DIN 40400	14 mm to 33 mm	DIN 40400	for D fuses, lamp bases and sockets	
			E5	5 mm to 40 mm	DIN EN 60061-1	for lamp bases and sockets	
Cylindrical Whitworth thread Filettatura cilindrica Zylindrisches Whitworth-Gewinde		W	W 3/16 DIN 49301	3/16	DIN 49301 (invalid)	for D fuses	
Steel armored pipe thread Filettatura per tubi in acciaio rinforzati Stahlpanzerrohrgewinde		Pg	Pg 21 DIN 40430	7 mm to 48 mm	DIN 40430	in electrical engineering	
Sheet metal screw thread Filettatura per viti da lamiera Blechschraubengewinde		ST	ST 3.5 ISO 1478	1,5 mm to 9,5 mm	DIN EN ISO 1478	for sheet metal screws	
Wood screw thread Filettatura per viti da legno Holzschraubengewinde		-	4 DIN 7998	1,6 mm to 20 mm	DIN 7998	for wood screws	
Bicycle thread Filettatura per biciclette Fahrradgewinde		FG	FG 9,5 DIN 79012	2 mm to 34,8 mm	DIN 79012 (withdrawn)	for bicycles and mopeds	
Valve thread Filettatura della valvola Ventilgewinde		Vg	Vg 12 DIN 7756	5 mm to 12 mm	DIN 7756	Valves for vehicle tires	
			8V1 ISO 4570	5,2 mm to 20,5 mm	ISO 4570		
Tapered Whitworth thread Filettatura Whitworth conica kegeliges Whitworth-Gewinde		E17 17E	E 17 con 17E (earlier: W19,8 x 1/14 keg.)	19,8 mm	DIN EN 144 DIN ISO11116	Screw-in connection for gas bottles	
		25E	25E (earlier: W28,8 x 1/14 keg.)	28,8 mm	DIN EN 629 ISO 10920		
		W	W31,3 x 1/14 keg. DIN 477	31,3 mm	DIN 477-1		
Cylindrical Whitworth thread Filettatura Whitworth cilindrica zylindrisches Whitworth-Gewinde		W	W 21,8 x 1/14 zyl. DIN 477	21,8 mm 24,32 mm 25,4 mm	DIN 477-1	Side connection of gas bottle valves	
			W 80 x 1/11 DIN EN 962	80 mm	DIN EN 962	for protective caps on gas bottles	
RMS thread Filettatura RMS RMS-Gewinde		RMS	W0,8 x 1/36 DIN ISO 8038	20,32 mm	DIN ISO 8038	for microscope lenses	
Tapered rod pipe thread Filettatura conica per tubi kegeliges Gestänge- rohrgewinde		Gg	Gg 4 1/2 DIN 20314	3 1/2 4 1/2 5 1/2 6 5/8	DIN 20314	in mining	

THREADS ACCORDING TO FOREIGN STANDARDS

Filettature secondo gli standard stranieri / Gewinde nach ausländischen Normen

DESIGNATION	PROFILE	CODE LETTERS	SHORT NAME EXAMPLES	ACCORDING TO STANDARD	COUNTRY
Unified small screw thread Piccola Filettatura unificata Unified Kleinschraubengewinde		UNM	0.80 UNM	ASME B1.10M	USA
Unified screw thread Filettatura unificata Unified Schraubengewinde		UN, UNC, UNF, UNEF, UNS	1/4 - 20 UNC - 2A or 0.250 - 20 UNC - 2A Nr. 6 (0.138) - 32 UNC - 2A	ASME B1.1 BS 1580	USA UK
		UNR, UNRC, UNRF, UNREF, UNRS	7/16 - 20 UNRF - 2A or 0.4375 - 20 UNRF - 2A	ASME B1.1	USA
		UNJ, UNJC, UNJF, UNJEF	0.250 - 28 UNJF - 3A	ASME B1.15 SAE AS8879	USA
American screw thread (obsolete) Filettatura americana (obsoleta) Amerikanisches Schraubengewinde (veraltet)		NC, NF NEF, NS, N	Nr. 12 - 32 NEF	ASA B1.1 (outdated)	USA
Whitworth screw thread Filettatura Whitworth Whitworth-Gewinde		BSW BSF	1/4 in. - 20 B.S.W.	BS 84	UK
BA screw thread Filettatura BA B.A.-Gewinde		B.A.	11 B.A.	BS 93	
Cylindrical pipe thread Filettatura cilindrica per tubi Zylindrisches Rohrgewinde		NPSC	1/8 - 27 NPSC	ANSI/ ASME B1.20.1	USA
		NPSM			
		NPSH, NH, NHR	1/2 - 14 NPSH 3/4 - 11.5 NH	ASME B1.20.7	
		NPSF, NPSI	1/8 - 28 NPSF	ASME B1.20.3	
		NGO	0.903 - 14 NGO-RH-EXT	CGA V-1	
		G $\triangle$ PF (BSPF, BSP)	G 1/4	ISO 228 DIN EN ISO 228-1	
		Rp $\triangle$ PS (BSPP)	Rp 1/4	ISO 7/1 (DIN EN 10226)	
		NPT	3/8 - 18 NPT	ANSI/ ASME B1.20.1	USA
		NPTF PTF-SAE-SHORT PTF-SPL-SHORT PTF-SPL-EXTRA SHORT - SPL-PTF	1/8 - 27 NPTF - 1	ANSI B1.20.3	
	NGT	1/8 - 27 NGT	CGA V-1		
Tapered pipe thread Filettatura conica per tubi Kegeliges Rohrgewinde		R	R 1/2	ISO 7/1 (DIN EN 10226)	
		Rc $\triangle$ PT (BSPT)	Rc 1/2		
		UNC-STI UNF-STI	1/4 - 20 UNC - 2B - STI or 0.125 - 20 UNC - 2B - STI	ASME B18.29.1	
Interfering thread nut Filettatura a interferenza Festsitzgewinde		NC5-IF NC5-HF u.a.	1/2 - 13 NC5 - IF or 0.500 - 13 NC5 - IF	ASME/ANSI B1.12	USA
Microscope thread Filettatura per microscopio Mikroskop-Gewinde		AMO	0.800 - 36 AMO	ASA B1.11	
Trapezoidal thread Filettatura trapezoidale Trapezgewinde		ACME	1 3/4 - 4 ACME - 2G	ASME B1.5 BS 1104	UK
		STUB-Acme	0.500 - 20 STUB ACME	ANSI B1.8	USA
Saw thread Filettatura per seghe Sägewinde		BUTT	2.5 - 8 BUTT - 2A	ANSI B1.9	USA
		Buttress	2.0 B.S. Buttress thread 8 tpi medium class	BS 1657	UK
		ART	ART 120 x 8 Gg.	NF E 03-611	France
Bicycle thread Filettatura per biciclette Fahrradgewinde		BSC	1/4 - 26 BSC - Med.	BS 811	UK
API thread thread of the American Petroleum Institute for the petroleum industry Filettatura API Filettatura dell'American Istituito petrolifero per l'industria petrolifera Gewinde des American Petroleum Institute für die Erdölindustrie		CSG, LCSG, BCSG, XCSG, LINE PIPE LP, TBG, UP TBG	4 1/2 API TBG	API Std 5 B	
		NC ROTARY, REG, REG LH, FH, IF	API 4 IF THD	API Spec 7	USA
		Sucker Rods	API - SR 3/4 1 1/16 - 10 Box - 2B	API Spec 11 B	