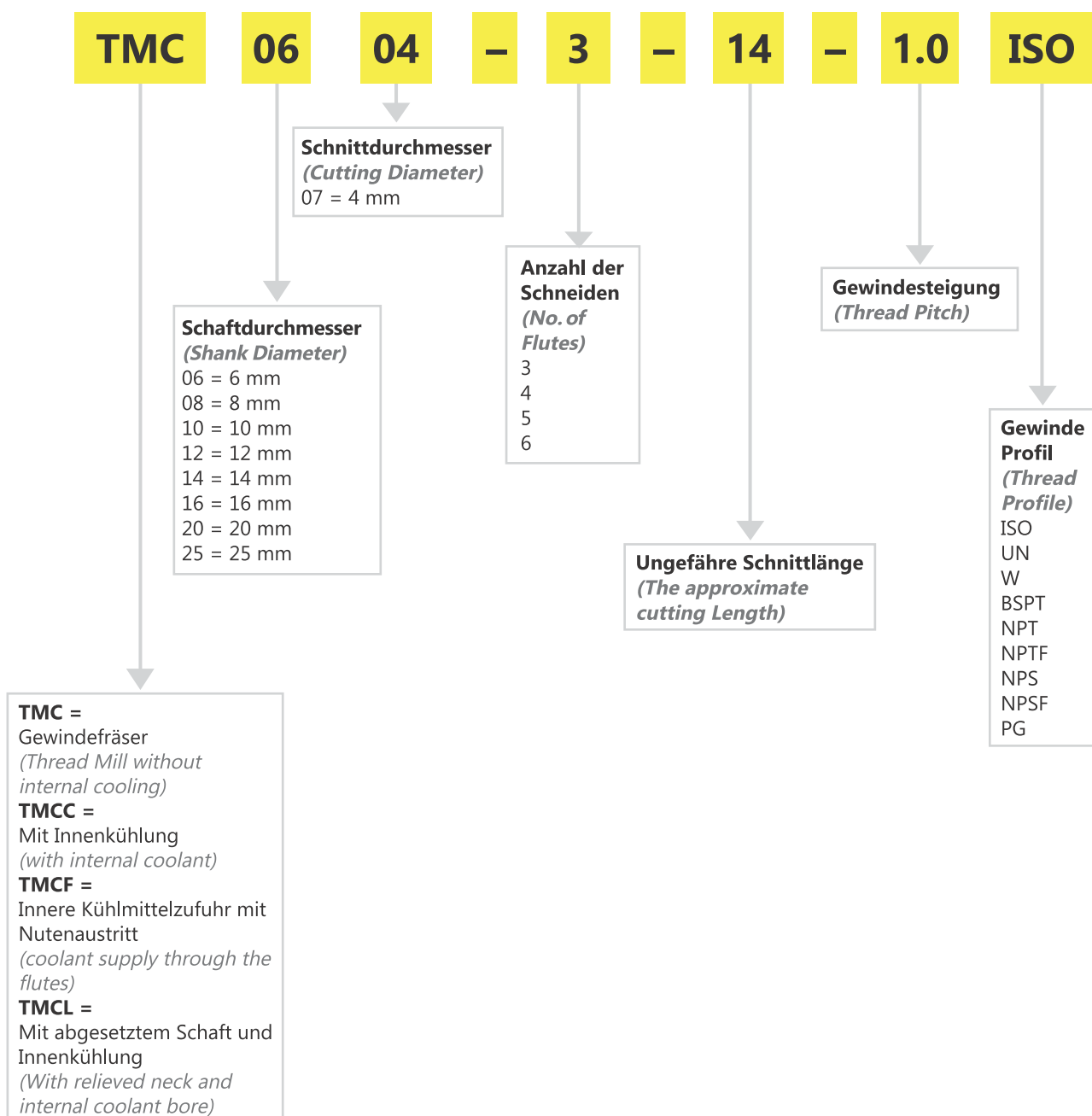


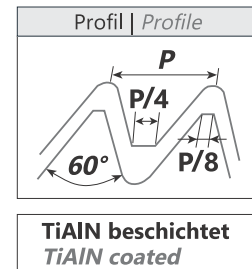
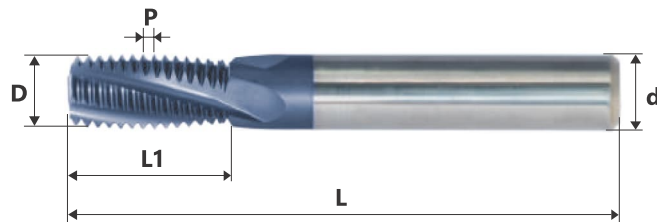


PRODUKT BEZEICHNUNG (PRODUCT DESIGNATION)

BEISPIEL (EXAMPLE): TMC0604-3-14-1.0 ISO



ISO

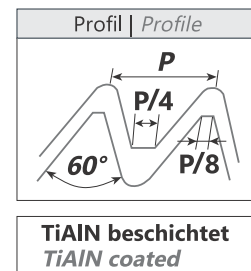
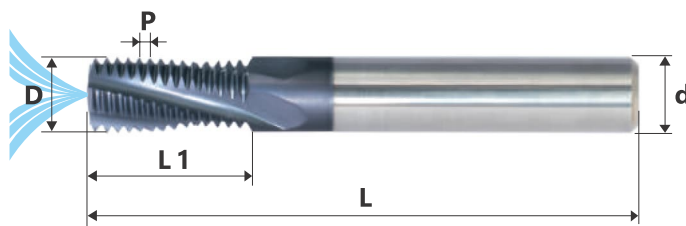


Werkzeuge zur Herstellung von Innengewinden | tools for internal threads

Artikelnummer (Item Number)	Maße in mm (Dimensions in mm)							Schneiden (Flutes)
	M grob (coarse)	P Steigung (Pitch)	M fein (fine)	D	d	L1	L	
TMC06022-3-5-0.5ISO	M3	0.5	Ø 4	2.2	6	5.3	58	3
TMC06038-3-10-0.5ISO		0.5	Ø 5	3.8	6	10.3	58	3
TMC06031-3-7-0.7ISO	M4	0.7	Ø 5	3.1	6	7.4	58	3
TMC06045-3-10-0.75ISO		0.75	Ø 6	4.5	6	10.1	58	3
TMC06036-3-9-0.8ISO	M5	0.8	Ø 6	3.6	6	9.2	58	3
TMC0604-3-10-1.0ISO	M6	1.0	Ø 7	4.0	6	10.5	58	3
TMC0604-3-14-1.0ISO	M6	1.0	Ø 7	4.0	6	14.5	58	3
TMC0606-3-12-1.0ISO		1.0	Ø 9	6.0	6	12.5	58	3
TMC0808-4-16-1.0ISO		1.0	Ø 10	8.0	8	16.5	64	4
TMC0605-3-14-1.25ISO	M8	1.25	Ø 10	5.0	6	14.4	58	3
TMC0605-3-19-1.25ISO	M8	1.25	Ø 10	5.0	6	19.4	58	3
TMC0807-3-17-1.5ISO	M10	1.5	Ø 12	7.0	8	17.3	64	3
TMC0807-3-24-1.5ISO	M10	1.5	Ø 12	7.0	8	24.8	76	3
TMC1010-4-21-1.5ISO		1.5	Ø 14	10.0	10	21.8	73	4
TMC1616-6-33-1.5ISO		1.5	Ø 20	16.0	16	33.8	105	6
TMC0808-3-20-1.75ISO	M12	1.75	Ø 14	8.0	8	22.1	64	3
TMC0808-3-28-1.75ISO	M12	1.75	Ø 14	8.0	8	28.9	76	3
TMC1010-3-27-2.0ISO	M16	2.0	Ø 17	10.0	10	27.0	73	3
TMC1010-3-39-2.0ISO	M16	2.0	Ø 17	10.0	10	39.0	105	3
TMC1212-4-27-2.0ISO		2.0	Ø 18	12.0	12	27.0	84	4
TMC2020-6-41-2.0ISO		2.0	Ø 26	20.0	20	41.0	108	6
TMC1414-4-33-2.5ISO	M20	2.5	Ø 22	14.0	14	33.8	84	4
TMC1414-4-48-2.5ISO	M20	2.5	Ø 22	14.0	14	48.8	105	4
TMC1616-3-40-3.0ISO	M24	3.0	Ø 25	16.0	16	40.5	105	3
TMC1616-3-58-3.0ISO	M24	3.0	Ø 25	16.0	16	58.5	120	3
TMC2020-4-43-3.0ISO	M27	3.0	Ø 28	20.0	20	43.5	105	4

Für Gewindefräser mit Innenkühlung siehe folgende Seiten | For thread mills with coolant bore see the following pages
 Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

ISO

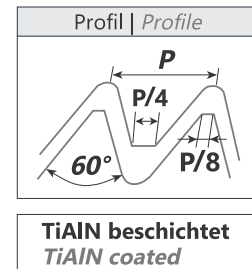
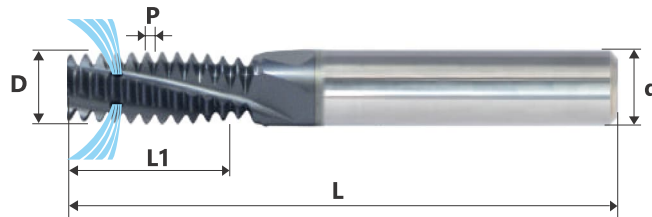


mit Innenkühlung – Werkzeuge zur Herstellung von Innengewinden
with internal coolant bore – tools for internal threads

Artikelnummer (Item Number)	Maße in mm (Dimensions in mm)							Schneiden (Flutes)
	P Steigung (Pitch)	M grob (coarse)	M fein (fine)	D	d	L1	L	
TMCC06038-3-10-0.5ISO	0.5		Ø 5	3.8	6	10.3	58	3
TMCC06031-3-7-0.7ISO	0.7	M4	Ø 5	3.1	6	7.4	58	3
TMCC06045-3-10-0.75ISO	0.75		Ø 6	4.5	6	10.1	58	3
TMCC1010-4-24-0.75ISO	0.75		Ø 12	10.0	10	24.4	73	4
TMCC06038-3-9-0.8ISO	0.8	M5	Ø 6	3.8	6	9.2	58	3
TMCC06046-3-10-1.0ISO	1.0	M6	Ø 7	4.6	6	10.5	58	3
TMCC06046-3-14-1.0ISO	1.0	M6	Ø 7	4.6	6	14.5	58	3
TMCC0606-3-12-1.0ISO	1.0		Ø 9	6.0	6	12.5	58	3
TMCC0808-4-16-1.0ISO	1.0		Ø 10	8.0	8	16.5	64	4
TMCC1010-4-24-1.0ISO	1.0		Ø 12	10.0	10	24.5	73	4
TMCC0606-3-14-1.25ISO	1.25	M8	Ø 10	6.0	6	14.4	58	3
TMCC0606-3-19-1.25ISO	1.25	M8	Ø 10	6.0	6	19.4	58	3
TMCC08078-3-17-1.5ISO	1.5	M10	Ø 12	7.8	8	17.0	64	3
TMCC08078-3-24-1.5ISO	1.5	M10	Ø 12	7.8	8	24.8	76	3
TMCC1010-4-21-1.5ISO	1.5		Ø 14	10.0	10	21.8	73	4
TMCC1212-4-26-1.5ISO	1.5		Ø 16	12.0	12	26.3	84	4
TMCC1616-6-33-1.5ISO	1.5		Ø 20	16.0	16	33.8	105	6
TMCC1009-3-20-1.75ISO	1.75	M12	Ø 12	9.0	10	20.1	73	3
TMCC1009-3-28-1.75ISO	1.75	M12	Ø 12	9.0	10	28.9	73	3
TMCC1010-3-27-2.0ISO	2.0	M14	Ø 15	10.0	10	27.0	73	3
TMCC12118-4-27-2.0ISO	2.0	M16	Ø 17	11.8	12	27.0	84	4
TMCC12118-4-39-2.0ISO	2.0	M16	Ø 17	11.8	12	39.0	105	4
TMCC2020-6-41-2.0ISO	2.0		Ø 26	20.0	20	41.0	105	6
TMCC1615-5-33-2.5ISO	2.5	M20	Ø 22	15.0	16	33.8	105	5
TMCC1615-5-48-2.5ISO	2.5	M20	Ø 22	15.0	16	48.8	105	5
TMCC2018-4-40-3.0ISO	3.0	M24	Ø 25	18.0	20	40.5	105	4
TMCC2018-4-58-3.0ISO	3.0	M24	Ø 25	18.0	20	58.5	120	4
TMCC2020-4-43-3.0ISO	3.0	M27	Ø 27	20.0	20	43.5	105	4

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

ISO

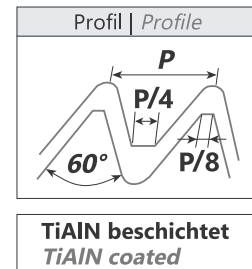
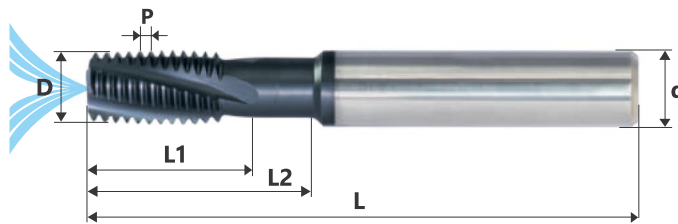


mit innerer Khlmittelzufuhr mit Nutenaustritt - Werkzeuge zur Herstellung von Innengewinden
with internal coolant supply via flutes - tools for internal threads

Artikelnummer (Item Number)	Mae in mm (Dimensions in mm)							Schneiden (Flutes)
	P Steigung (Pitch)	M grob (coarse)	M fein (fine)	D	d	L1	L	
TMCF06048-3-10-1.0ISO	1.0	M6	Ø 7	4.8	6	10.5	58	3
TMCF0606-3-12-1.0ISO	1.0		Ø 9	6.0	6	12.5	58	3
TMCF0808-4-16-1.0ISO	1.0		Ø 10	8.0	8	16.5	64	4
TMCF0606-3-14-1.25ISO	1.25	M8	Ø 10	6.0	6	14.4	58	3
TMCF0606-3-19-1.25ISO	1.25	M8	Ø 10	6.0	6	19.4	58	3
TMCF08078-3-17-1.5ISO	1.5	M10	Ø 12	7.8	8	17.0	64	3
TMCF1010-4-21-1.5ISO	1.5		Ø 14	10.0	10	21.8	73	4
TMCF1212-4-26-1.5ISO	1.5		Ø 16	12.0	12	26.3	84	4
TMCF1616-5-33-1.5ISO	1.5		Ø 20	16.0	16	33.8	101	5
TMCF1009-3-20-1.75ISO	1.75	M12	Ø 12	9.0	10	20.1	73	3
TMCF1009-3-28-1.75ISO	1.75	M12	Ø 12	9.0	10	28.9	73	3
TMCF1010-3-27-2.0ISO	2.0	M14	Ø 15	10.0	10	27.0	73	3
TMCF12118-4-27-2.0ISO	2.0	M16	Ø 17	11.8	12	27.0	84	4
TMCF1615-5-33-2.5ISO	2.5	M20	Ø 22	15.0	16	33.8	101	5

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

ISO

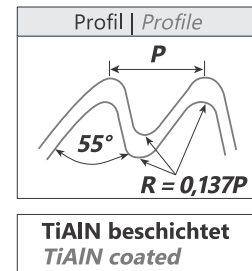
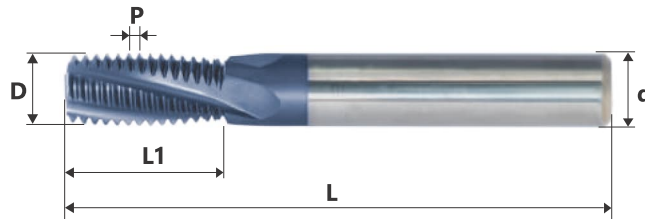


mit abgesetztem Schaft und Innenkühlung - Werkzeuge zur Herstellung von Innengewinden
with relieved neck and internal coolant bore - tools for internal threads

Artikelnummer (Item Number)	Maße in mm (Dimensions in mm)							Schneiden (Flutes)
	P Steigung (Pitch)	M fein (fine)	D	d	L1	L2	L	
TMCL1010-4-32-1.0ISO	1.0	Ø 12	10	10	18.0	32.0	73	4
TMCL1212-4-38-1.0ISO	1.0	Ø 14	12	12	21.0	38.0	84	4
TMCL1616-6-45-1.0ISO	1.0	Ø 18	16	16	26.0	45.0	105	6
TMCL1010-4-30-1.5ISO	1.5	Ø 13	10	10	18.0	30.0	73	4
TMCL1212-4-34-1.5ISO	1.5	Ø 15	12	12	19.5	34.5	84	4
TMCL1616-6-43-1.5ISO	1.5	Ø 19	16	16	25.5	43.5	105	6
TMCL2020-6-60-1.5ISO	1.5	Ø 23	20	20	36.0	60.0	105	6
TMCL1212-4-42-2.0ISO	2.0	Ø 16	12	12	24.0	42.0	84	4
TMCL1616-5-45-2.0ISO	2.0	Ø 20	16	16	26.0	45.0	105	5
TMCL2020-6-56-2.0ISO	2.0	Ø 24	20	20	34.0	56.0	105	6
TMCL1616-4-45-3.0ISO	3.0	Ø 22	16	16	30.0	45.0	105	4
TMCL2020-5-54-3.0ISO	3.0	Ø 26	20	20	33.0	54.0	105	5
TMCL2020-4-45-3.5ISO	3.5	Ø 26	20	20	28.0	45.5	105	4

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

G55° - BSF, BSP



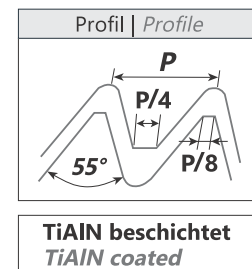
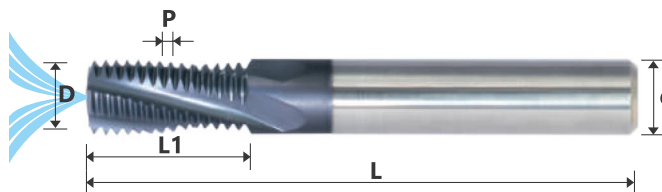
BSF, BSP - gleiches Werkzeug für Innen- und Außengewinde

BSF, BSP - same tool for internal and external threads

Artikelnummer (Item Number)	Maße in mm (Dimensions in mm)						Schneiden (Flutes)
	P Steigung (Pitch)	Standard	D	d	L1	L	
TMC0606-3-9-28W	28	G1/8	6	6	9.5	58	3
TMC0808-3-1419W	19	G1/4-3/8	8	8	14.0	64	3
TMC1212-4-19-14W	14	G1/2-7/8	12	12	19.0	84	4
TMC1212-4-26-14W	14	G1/2-7/8	12	12	26.3	84	4
TMC1212-3-24-11W	11	G≥1	12	12	24.2	84	3
TMC1616-4-38-11W	11	G≥1	16	16	38.1	105	4
TMC2020-5-47-11W	11	G≥1	20	20	47.3	105	5

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

G55° - BSF, BSP



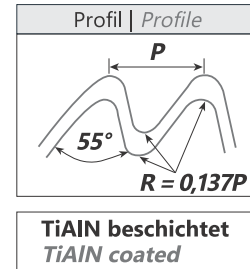
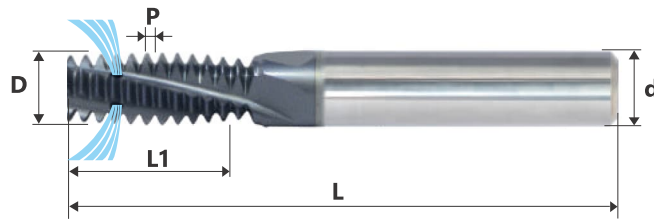
BSF, BSP mit Innenkühlung – gleiches Werkzeug für Innen- und Außengewinde

BSF, BSP with internal coolant bore – same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	L1 in mm	L in mm	Schneiden (Flutes)
TMCC08078-3-14-28W	28	G1/8	8	7.8	14.1	64	3
TMCC1010-4-16-19W	19	G1/4-3/8	10	10.0	16.7	73	4
TMCC1616-5-26-14W	14	G1/2-7/8	16	16.0	26.3	105	5
TMCC1616-4-38-11W	11	G≥1	16	16.0	38.1	105	4
TMCC2020-5-47-11W	11	G≥1	20	20.0	47.3	105	5

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

G55° - BSF, BSP

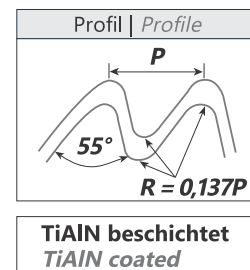
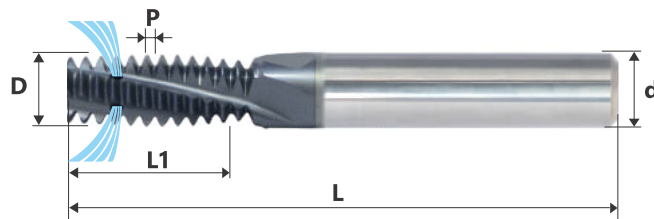


BSF, BSP mit innere K hlmittelezufuhr mit Nutenaustritt - gleiches Werkzeug f r Innen- und Au engewinde
BSF, BSP with internal coolant supply through the flutes - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCF08078-3-14-28W	28	G1/8	8	7.8	3	14.1	64
TMCF1010-4-16-19W	19	G1/4-3/8	10	10.0	4	16.7	73
TMCF1616-5-26-14W	14	G1/2-7/8	16	16.0	5	26.3	101
TMCF1616-4-38-11W	11	G�1	16	16.0	4	38.1	101

Mini-Gewindef rer siehe Seite 167-189 | Mini thread mills see page 167-189

WHITWORTH - BSW

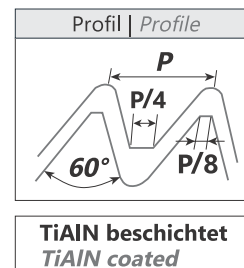
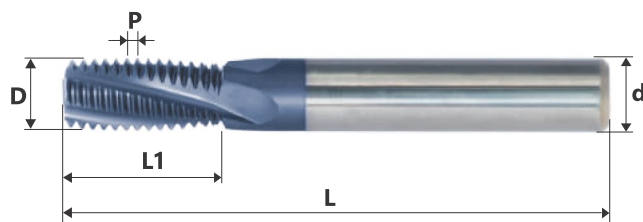


BSW mit innerer K hlmittelezufuhr mit Nutenaustritt - gleiches Werkzeug f r Innen- und Au engewinde
BSW with internal coolant supply through the flutes - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCF06046-3-12-20W	*20	1/4	6	4.6	3	12.1	58
TMCF06053-3-14-18W	18	5/16	6	5.3	3	14.8	58
TMCF08068-3-16-16W	16	3/8	8	6.8	3	16.7	64
TMCF10092-4-24-16W	16	1/2	10	9.2	4	24.6	73
TMCF08078-4-20-14W	14	7/16	8	7.8	4	20.9	64
TMCF10086-4-24-12W	12	1/2	10	8.6	4	24.4	73
TMCF12109-4-28-11W	11	5/8	12	10.9	4	28.9	84

* F rer ohne Innenk hlung | Cutter without coolant

UN



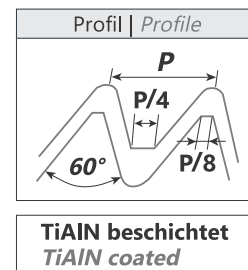
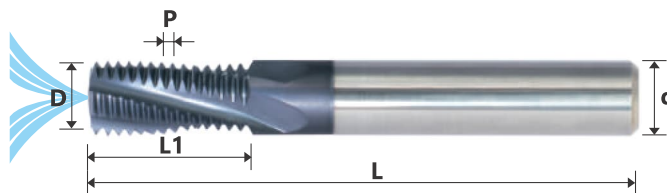
Werkzeuge zur Herstellung von Innengewinden | tools for internal threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	UNC	UNF	UNFE	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMC06025-3-6-40UN	40	5			6	2.5	3	6.0	58
TMC06032-3-6-32UN	32	8	10	12	6	3.2	3	6.8	58
TMC0604-3-11-28UN	28		1/4		6	4.0	3	11.3	58
TMC0606-3-14-28UN	28			7/16 - 1/2	6	6.0	3	14.1	58
TMC0605-3-14-24UN	24		5/16		6	5.0	3	14.3	58
TMC0807-3-21-24UN	24		3/8	9/16 - 5/8	8	7.0	3	20.6	64
TMC06045-3-12-20UN	20	1/4			6	4.5	3	12.1	58
TMC0807-3-21-20UN	20		7/16 - 1/2		8	7.0	3	21.0	64
TMC1212-5-27-20UN	20			3/4 - 1	12	12.0	5	27.3	84
TMC0605-3-14-18UN	18	5/16			6	5.0	3	14.8	58
TMC1010-4-26-18UN	18		9/16 - 5/8	1 1/8 - 1 5/8	10	10.0	4	26.1	73
TMC0606-3-16-16UN	16	3/8			6	6.0	3	16.7	58
TMC1212-4-31-16UN	16		3/4		12	12.0	4	31.0	84
TMC0807-3-20-14UN	14	7/16			8	7.0	3	20.9	64
TMC1615-5-37-14UN	14		7/8		16	15.0	5	37.2	105
TMC0808-3-22-13UN	13	1/2			8	8.0	3	22.5	64
TMC1010-3-26-12UN	12	9/16			10	10.0	3	26.5	73
TMC1616-5-41-12UN	12		1 - 1 1/2		16	16.0	5	41.3	105
TMC1010-3-28-11UN	11	5/8			10	10.0	3	28.9	73
TMC1212-3-34-10UN	10	3/4			12	12.0	3	34.3	84
TMC1615-3-38-9UN	9	7/8			16	15.0	3	38.1	150
TMC1616-3-42-8UN	8	1			16	16.0	3	42.9	105
TMC2020-4-45-7UN	7	1 1/8 - 1 1/4			20	20.0	4	45.3	105

Für Gewindefräser mit Innenkühlung siehe folgende Seiten | For thread mills with coolant bore see following pages

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

UN

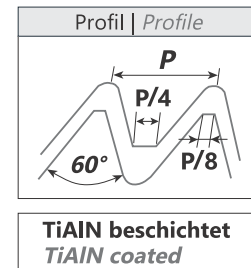
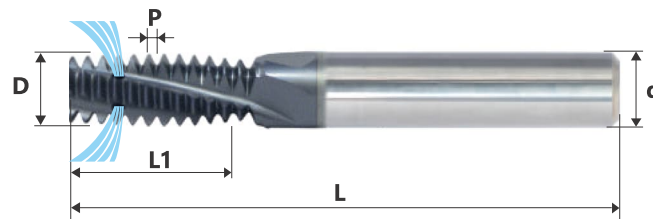


mit Innenkühlung - Werkzeuge zur Herstellung von Innengewinden
with internal coolant bore - tools for internal threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	UNC	UNF	UNFE	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC06032-3-6-32UN	32	8	10	12	6	3.2	3	6.8	58
TMCC0606-3-14-32UN	32			5/16	6	6.0	3	14.7	58
TMCC0808-4-18-32UN	32			3/8	8	8.0	4	18.7	64
TMCC0605-3-11-28UN	28		1/4		6	5.0	3	11.3	58
TMCC0606-3-14-28UN	28			7/16-1/2	6	6.0	3	14.1	58
TMCC08066-3-14-24UN	24		5/16		8	6.6	3	14.3	64
TMCC0808-4-21-24UN	24		3/8	9/16-5/8	8	8.0	4	20.6	64
TMCC06047-3-12-20UN	20	1/4			6	4.7	3	12.1	58
TMCC0808-3-21-20UN	20		7/16		8	8.0	3	21.0	64
TMCC1010-4-22-20UN	20		1/2		10	10.0	4	22.3	73
TMCC1212-5-27-20UN	20			3/4-1	12	12.0	5	27.3	84
TMCC06056-3-14-18UN	18	5/16			6	5.6	3	14.8	58
TMCC12113-4-26-18UN	18		9/16-5/8	1 1/8 - 1 1/4	12	11.3	4	26.1	84
TMCC08067-3-16-16UN	16	3/8			8	6.7	3	16.7	64
TMCC1212-4-31-16UN	16		3/4		12	12.0	4	31.0	84
TMCC08077-3-20-14UN	14	7/16			8	7.7	3	20.9	64
TMCC1616-5-37-14UN	14		7/8		16	16.0	5	37.2	105
TMCC10092-3-22-13UN	13	1/2			10	9.2	3	22.5	73
TMCC12105-3-26-12UN	12	9/16			12	10.5	3	26.5	84
TMCC1616-5-41-12UN	12		1 - 1 1/2		16	16.0	5	41.3	105
TMCC12114-3-28-11UN	11	5/8			12	11.4	3	28.9	84
TMCC16144-4-34-10UN	10	3/4			16	14.4	4	34.3	105
TMCC1616-3-38-9UN	9	7/8			16	16.0	3	38.1	105
TMCC20195-4-42-8UN	8	1			20	19.5	4	42.9	105
TMCC2020-4-45-7UN	7	1 1/8 - 1 1/4			20	20.0	4	45.3	105

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

UN

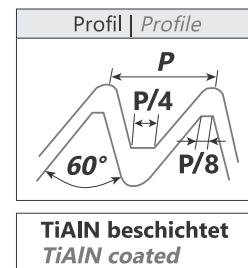
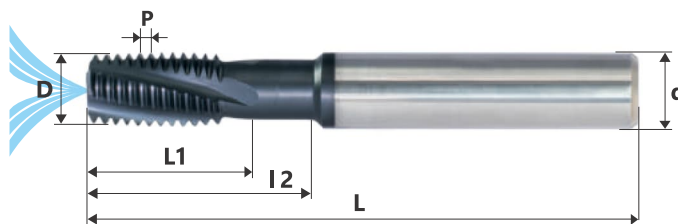


innere Kühlmittelzufuhr mit Nutenaustritt - Werkzeuge zur Herstellung von Innengewinden
with internal coolant supply through the flutes - tools for internal threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	UNC	UNF	UNFE	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCF0605-3-11-28UN	28		1/4		6	5.0	3	11.3	58
TMCF0606-3-14-28UN	28			7/16-1/2	6	6.0	3	14.1	58
TMCF08066-3-14-24UN	24		5/16		8	6.6	3	14.3	64
TMCF0808-4-21-24UN	24		3/8	9/16-5/8	8	8.0	4	20.6	64
TMCF0808-3-21-20UN	20		7/16		8	8.0	3	21.0	64
TMCF1010-4-22-20UN	20		1/2		10	10.0	4	22.3	73
TMCF1212-5-27-20UN	20			3/4-1	12	12.0	5	27.3	84
TMCF06056-3-14-18UN	18	5/16			6	5.6	3	14.8	58
TMCF12113-4-26-18UN	18		9/16-5/8	1 1/8 - 1 5/8	12	11.3	4	26.1	84
TMCF08067-3-16-16UN	16	3/8			8	6.7	3	16.7	64
TMCF1212-4-31-16UN	16		3/4		12	12.0	4	31.0	84
TMCF08077-3-20-14UN	14	7/16			8	7.7	3	20.9	64
TMCF1616-5-37-14UN	14		7/8		16	16.0	5	37.2	101
TMCF10092-3-22-13UN	13	1/2			10	9.2	3	22.5	73
TMCF12105-3-26-12UN	12	9/16			12	10.5	3	26.5	84
TMCF12114-3-28-11UN	11	5/8			12	11.4	3	28.9	84
TMCF16144-4-34-10UN	10	3/4			16	14.4	4	34.3	101

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

UN

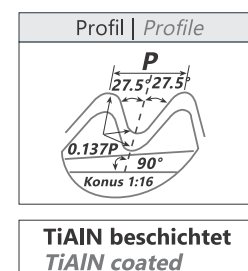
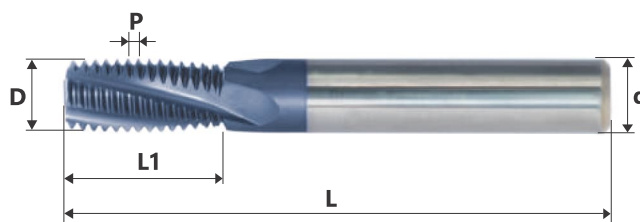


mit abgesetztem Schaft und Innenkühlung - Werkzeuge zur Herstellung von Innengewinden
with relieved neck and internal coolant bore - tools for internal threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	M fein (fine)	d in mm	D in mm	Schneiden (Flutes)	L2 in mm	L1 in mm	L in mm
TMCL1010-4-30-20UN	20	Ø 12	10	10.0	4	17.8	30.5	73
TMCL1212-5-35-20UN	20	Ø 14	12	12.0	5	20.3	35.6	84
TMCL1616-6-43-20UN	20	Ø 18	16	16.0	6	25.4	43.2	105
TMCL1212-4-35-18UN	18	Ø 15	12	12.0	4	19.7	35.3	84
TMCL1212-4-35-16UN	16	Ø 15	12	12.0	4	20.7	35.0	84
TMCL1616-5-42-16UN	16	Ø 19	16	16.0	5	25.4	42.9	105
TMCL2020-6-58-16UN	16	Ø 23	20	20.0	6	36.5	58.8	105
TMCL1616-5-45-14UN	14	Ø 20	16	16.0	5	25.4	45.3	105
TMCL1212-4-42-12UN	12	Ø 16	12	12.0	4	25.4	42.3	84
TMCL2020-5-55-12UN	12	Ø 24	20	20.0	5	33.9	55.1	105

Mini-Gewindefräser siehe Seite 167-189 | Mini thread mills see page 167-189

BSPT

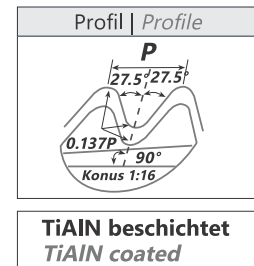
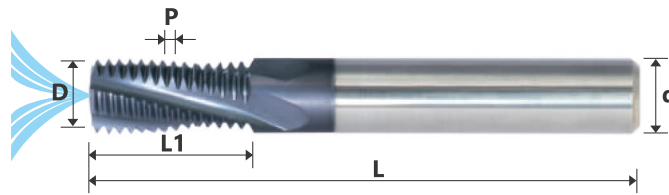


gleiches Werkzeug für Innen- und Außengewinde
same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMC0606-3-9-28BSPT	28	RC 1/16 - 1/8	6	6.0	3	9.5	58
TMC0808-3-14-19BSPT	19	RC 1/4 - 3/8	8	8.0	3	14.0	64
TMC1212-4-19-14BSPT	14	RC 1/2 - 7/8	12	12.0	4	19.1	84
TMC1616-4-28-11BSPT	11	RC 1 - 2	16	16.0	4	28.9	105

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

BSPT

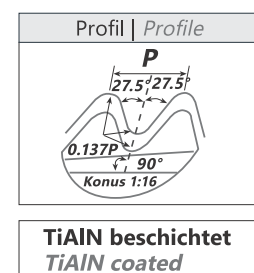
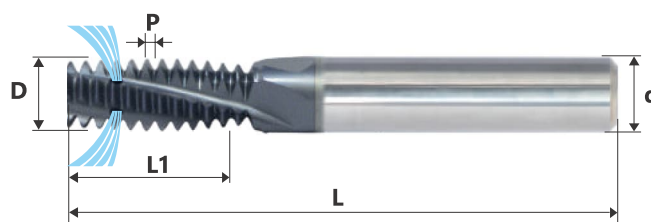


mit Innenkühlung - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant bore - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC08078-3-14-28BSPT	28	RC 1/8	8	7.8	3	14.1	64
TMCC1010-4-16-19BSPT	19	RC 1/4 - 3/8	10	10.0	4	16.7	73
TMCC1616-5-26-14BSPT	14	RC 1/2 - 7/8	16	16.0	5	26.3	105
TMCC1616-4-28-11BSPT	11	RC 1 - 2	16	16.0	4	28.9	105

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

BSPT

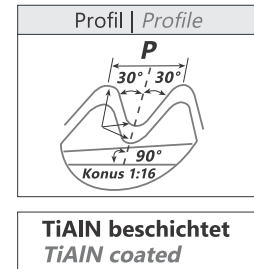
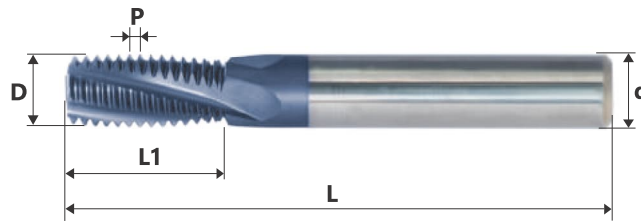


innere Kühlmittelzufuhr mit Nutenaustritt - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant through the flutes - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCF08078-3-14-28BSPT	28	RC 1/8	8	7.8	3	14.1	64
TMCF1010-4-16-19BSPT	19	RC 1/4 - 3/8	10	10.0	4	16.7	73
TMCF1616-5-26-14BSPT	14	RC 1/2 - 7/8	16	16.0	5	26.3	101
TMCF1616-4-28-11BSPT	11	RC 1 - 2	16	16.0	4	28.9	101

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

NPT

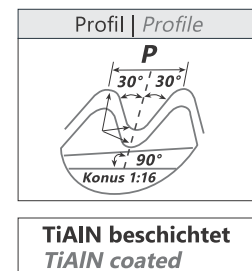
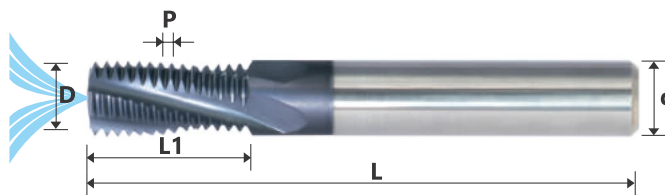


gleiches Werkzeug für Innen- und Außengewinde
same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMC0606-3-9-27NPT	27	1/16 - 1/8	6	6.0	3	9.9	58
TMC0808-3-14-18NPT	18	1/4 - 3/8	8	8.0	3	14.8	64
TMC1212-4-20-14NPT	14	1/2 - 3/4	12	12.0	4	20.9	84
TMC1616-4-27-11.5NPT	11.5	1 - 2	16	16.0	4	27.6	105
TMC2020-4-39-8NPT	8	≥ 2 1/2	20	20.0	4	39.7	105

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

NPT

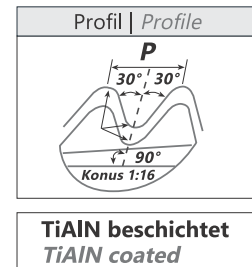
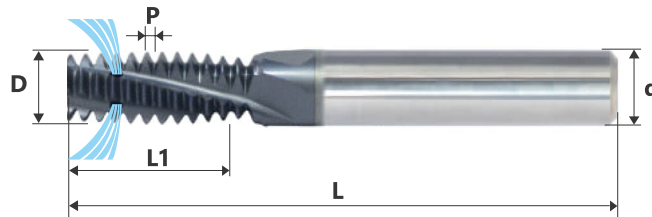


mit Innenkühlung - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant bore - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC08076-3-10-27NPT	27	1/16 - 1/8	8	7.6	3	10.8	64
TMCC1010-4-16-18NPT	18	1/4 - 3/8	10	10.0	4	16.2	73
TMCC16155-4-22-14NPT	14	1/2 - 3/4	16	15.5	4	22.7	105
TMCC2020-4-29-11.5NPT	11.5	1 - 2	20	20.0	4	29.8	105
TMCC2020-4-39-8NPT	8	≥ 2 1/2	20	20.0	4	39.7	105

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

NPT

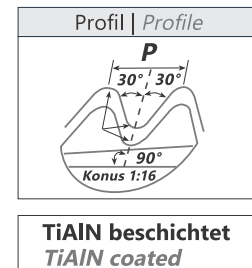
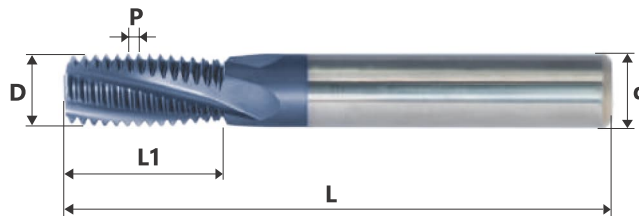


Innere Kühlmittelzufuhr mit Nutenaustritt - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant supply through the flutes - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCF08076-3-10-27NPT	27	1/8	8	7.6	3	10.8	64
TMCF1010-4-16-18NPT	18	1/4 - 3/8	10	10.0	4	16.2	73
TMCF16155-4-22-14NPT	14	1/2 - 3/4	16	15.5	4	22.7	101

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

NPTF

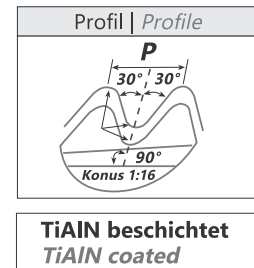
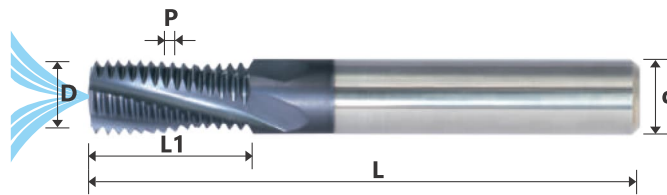


gleiches Werkzeug für Innen- und Außengewinde
same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMC0606-3-9-27NPTF	27	1/16 - 1/8	6	6.0	3	9.9	58
TMC0808-3-14-18NPTF	18	1/4 - 3/8	8	8.0	3	14.8	64
TMC1212-4-20-14NPTF	14	1/2 - 3/4	12	12.0	4	20.9	84
TMC1616-4-27-11.5NPTF	11.5	1 - 2	16	16.0	4	27.6	105
TMC2020-4-39-8NPTF	8	≥ 2 1/2	20	20.0	4	39.7	105

Für VHM-Gewindefräser mit Innenkühlung siehe nächste Seiten | For thread mills with coolant see following pages
Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

NPTF

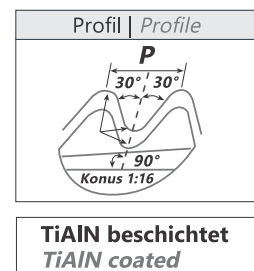
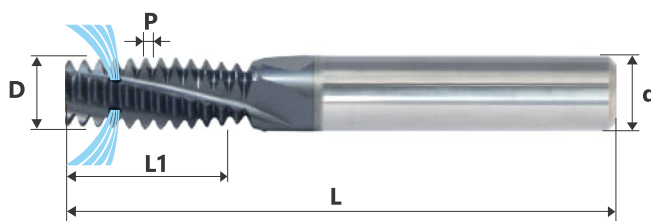


mit Innenkühlung - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant bore - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC08076-3-10-27NPTF	27	1/8	8	7.6	3	10.8	64
TMCC1010-4-16-18NPTF	18	1/4 - 3/8	10	10.0	4	16.2	73
TMCC16155-4-22-14NPTF	14	1/2 - 3/4	16	15.5	4	22.7	105
TMCC2020-4-29-11.5NPTF	11.5	1 - 2	20	20.0	4	29.8	105
TMCC2020-4-39-8NPTF	8	≥ 2 1/2	20	20.0	4	39.7	105

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

NPTF

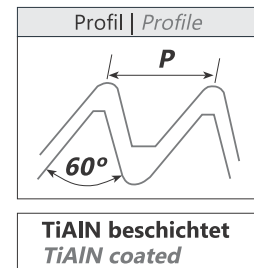
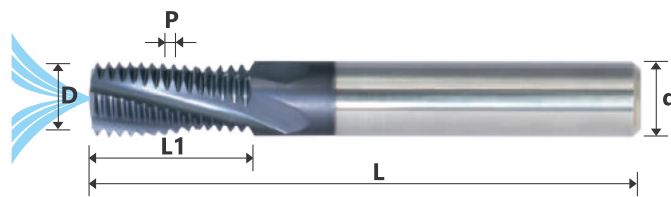


innere Kühlmittelzufuhr mit Nutenaustritt - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant through the flutes - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCF08076-3-10-27NPTF	27	1/8	8	7.6	3	10.8	64
TMCF1010-4-16-18NPTF	18	1/4 - 3/8	10	10.0	4	16.2	73
TMCF16155-4-22-14NPTF	14	1/2 - 3/4	16	15.5	4	22.7	101

Für Vorbearbeitung siehe konische VHM-Schaftfräser siehe Seite 166 | For conical preparation end mills see page 166

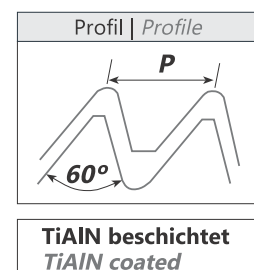
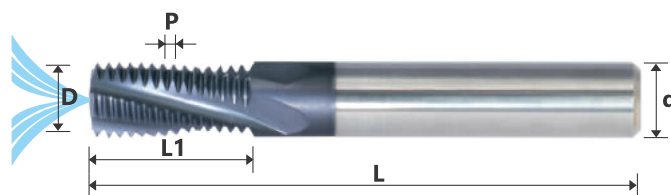
NPS



mit Innenkühlung - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant bore - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC0312-3-04-27NPS	27	1/8	5/16	7.6	3	10.8	63
TMCC0375-4-06-18NPS	18	1/4 - 3/8	3/8	9.5	4	16.2	76
TMCC0625-4-08-14NPS	14	1/2 - 3/4	5/8	15.5	4	22.7	101
TMCC0750-4-11-11.5NPS	11.5	1 - 2	3/4	19.0	4	29.8	101

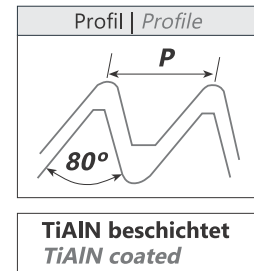
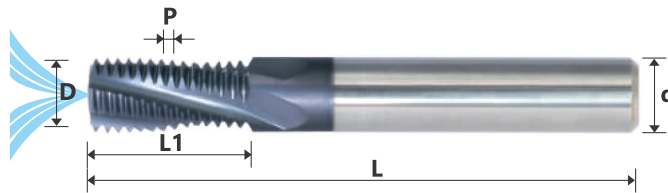
NPSF



mit Innenkühlung - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant bore - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC0312-3-04-27NPSF	27	1/8	5/16	7.6	3	10.8	63
TMCC0375-4-06-18NPSF	18	1/4 - 3/8	3/8	9.5	4	16.2	76
TMCC0625-4-08-14NPSF	14	1/2 - 3/4	5/8	15.5	4	22.7	101
TMCC0750-4-11-11.5NPSF	11.5	1 - 2	3/4	19.0	4	29.8	101

PG DIN 40430



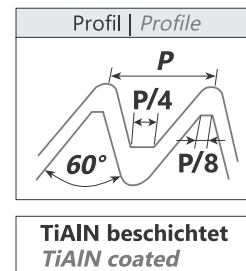
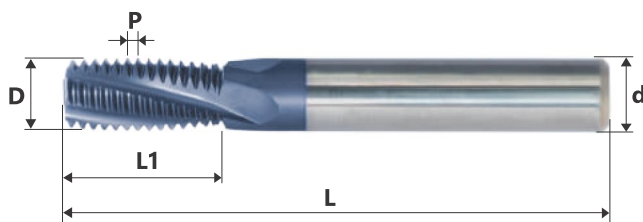
mit Innenkühlung - gleiches Werkzeug für Innen- und Außengewinde
with internal coolant bore - same tool for internal and external threads

Artikelnummer (Item Number)	Steigung (Pitch) P in TPI	Standard	d in mm	D in mm	Schneiden (Flutes)	L1 in mm	L in mm
TMCC1010-4-19-20PG	20	Pg 7	10	10.0	4	19.7	73
TMCC1212-4-20-18PG	18	Pg 9, 11, 13.5, 16	12	12.0	4	20.5	84
TMCC1212-4-23-16PG	16	Pg 21, 29, 36, 42, 48	12	12.0	4	23.0	84

TEST REPORT

Innengewinde Internal thread	M10 x 1
Gewindetiefe Thread depth	10.0 mm
Werkstoff Material	34CrNiMo6 (1.6582)
Werkzeug Tool	Halter Holder: TMCC 0606-3-12-1.0 ISO
	Platte Insert: 21IN3.0ISO
Schnittgeschwindigkeit Cutting speed	Vc: 100 m/min Fz: 0.02 mm/Z
Kühlung Coolant	Emulsion
Standzeit Tool life	758 Platten Pieces

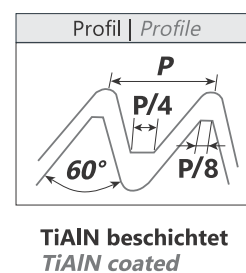
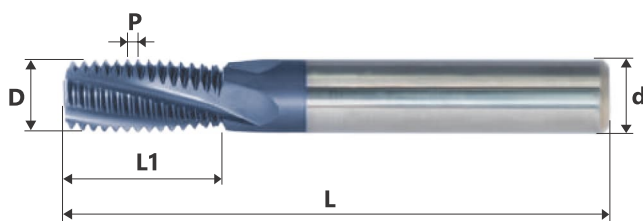
ISO



ohne Innenkühlung - nur für Außengewinde
without internal coolant bore - for external threads

Artikelnummer (Item Number)	Steigung (Pitch) in mm	d in mm	D in mm	Anzahl der Schneiden (No. of Flutes)	L1 in mm	L in mm
EXTMC1010-4-16-1.0ISO	1.0	10	10.0	4	16.5	73
EXTMC1212-5-20-1.0ISO	1.0	12	12.0	5	20.5	84
EXTMC1010-4-16-1.25ISO	1.25	10	10.0	4	16.9	73
EXTMC1010-4-15-1.5ISO	1.5	10	10.0	4	15.8	73
EXTMC1212-4-20-1.5ISO	1.5	12	12.0	4	20.3	84
EXTMC1212-4-20-1.75ISO	1.75	12	12.0	4	20.1	84
EXTMC1010-3-17-2.0ISO	2.0	10	10.0	3	17.0	73
EXTMC1212-4-21-2.0ISO	2.0	12	12.0	4	21.0	84

UN



ohne Innenkühlung - nur für Außengewinde
without internal coolant bore - for external threads

Artikelnummer (Item Number)	Steigung (Pitch) in mm	d in mm	D in mm	Anzahl der Schneiden (No. of Flutes)	L1 in mm	L in mm
EXTMC1010-4-16-24UN	24	10	10.0	4	16.4	73
EXTMV1212-5-21-20UN	20	12	12.0	5	21.0	84
EXTMC1212-4-20-18UN	18	12	12.0	4	20.5	84
EXTMC1212-4-21-16UN	16	12	12.0	4	21.4	84
EXTMC1212-4-20-14UN	14	12	12.0	4	20.9	84
EXTMC1212-4-20-12UN	12	12	12.0	4	20.1	84

KONISCHE VHM-SCHAFTFRÄSER

TAPERED SOLIDE CARBIDE END MILLS

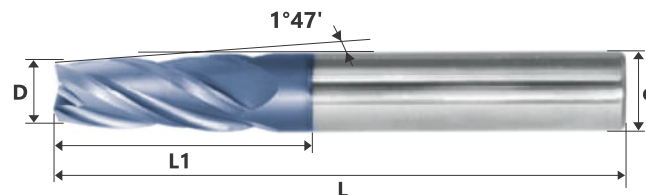
Konische VHM-Schaftfräser ermöglichen die Vorbearbeitung von konischen Gewinden.
Solid carbide tapered end mills are used for milling preparation of conical threads before the thread milling operation.

VORTEILE

- Verlängert die Standzeit der Gewindefräswerkzeuge
- Gleichmäßiger Schnittdruck bei der Gewindebearbeitung
- Kürzere Maschinenzeit durch konisch vorbereitete Kerndurchmesser oder Außendurchmesser

ADVANTAGES:

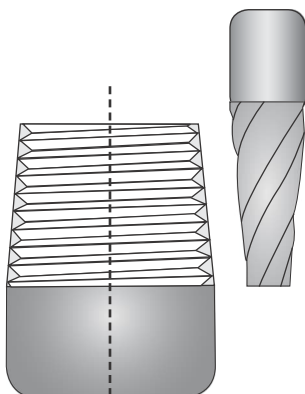
- increases tool life of thread milling cutters and indexable inserts
- equal and uniform load along the cutting edge of the thread milling cutter
- shorter machining time of the thread milling operation, due to the tapered preparation



TiAlN beschichtet
TiAlN coated

Artikelnummer (Item Number)	Größe (Size)	D in mm	d in mm	Schneiden (Flutes)	L1 in mm	L in mm
CC0652-4-12	NPT 1/16" - 1/8"	5.2	6	4	12	58
	NPTF 1/16" - 1/8"					
	BSPT 1/16" - 1/8"					
CC1085-4-24	NPT 1/8" - 1"	8.5	10	4	24	73
	NPTF 1/8" - 1"					
	BSPT 1/8" - 1"					
CC1210-4-32	NPT 1/4" - 3"	10.0	12	4	32	84
	NPTF 1/4" - 3"					
	BSPT 1/4" - 3"					

AUSSENBEARBEITUNG EXTERNAL MACHINING



INNENBEARBEITUNG INTERNAL MACHINING

