

SABRE HSS-E-PM TAPS



SABRE HSS-E-PM TAPS



TAP TYPE			SABRE Universal Application Tapping						SABRE HS High Speed Tapping			
DIN 371/376	M	Series No. (TSYC)	TM9430	P.4	TM9515	P.5	TM9834	P.14	TM9036	P.16	TM9031	P.17
DIN 374	MF		TM9431	P.6-7	TM9516	P.8-9						
DIN 371/376	UNC		TM9432	P.10	TM9517	P.11						
DIN 371/374	UNF		TM9433	P.12	TM9518	P.13						
APPLICATION TYPE			UV		UV		UV		GS		GS	
TREATMENT/COATING			AlCr Base		AlCr Base		AlCr Base		TiN		TiN	
SPIRAL FLUTE ANGLE			45°				45°		45°		45°	
CHAMFER LEAD TO DIN 2197			C		B		E		C		C	
HOLE TYPE			 Max 2.5xD		 Max 3.0xD		 Max 2.5xD		 Max 2.5xD		 Max 2.5xD	
TAP STYLE												

VDI MATERIAL GROUP			HRc	COOLANT TYPE	● Primary Application ○ Secondary Application vc (m/min)				
P	1-5	Non-alloy Steel	<25	Emulsion	● 10-40	● 10-40	● 10-40	● 28-46	● 28-46
	6-9	Low alloy Steel	25-35	Emulsion	● 8-30	● 8-30	● 8-30	● 28-33	● 28-33
	10-11	High alloy Steel, Tool Steel	35-45	Neat oil or Emulsion	○ 8-30	○ 8-30	○ 8-30		
M	12-13	Ferritic / Martensitic Stainless steel		Neat oil	● 5-15	● 5-15	● 5-15	● 13-23	● 13-23
	14	Austenitic Stainless steel		Neat oil	● 5-15	● 5-15	● 5-15	● 10-14	● 10-14
K	15-16	Grey Cast iron		Neat oil or Emulsion	○ 15-30	○ 15-30	○ 15-30	○ 28-33	○ 28-33
	17-20	Nodular & Malleable Cast iron		Neat oil or Emulsion	● 15-30	● 15-30	● 15-30	○ 28-33	○ 28-33
N	21-25	Aluminium (HSM)		Emulsion				● 30-46	● 30-46
		Aluminium			● 15-35	● 15-35	● 15-35		
	26-28	Copper & Copper alloys		Emulsion	● 15-35	● 15-35	● 15-35	○ 25-50	○ 25-50
	29.1	Thermosetting Plastics, Acrylics		Dry or emulsion					
	29.2	CFRP/GFRP		-					
	30	Synthetic Graphite		-					
S	31-35	HRSA Fe & Ni/Co Based		Neat oil					
	36-37	Titanium & Titanium alloys		Neat oil					
H	38	Hardened Steel	40-55	Neat oil					
	39	Hardened Steel	55-60	Neat oil					
	40-41	Chilled & Hardened Cast Iron	42-55	Neat oil					

3 Europa Tool Co.,Ltd



SABRE SPIRAL FLUTE METRIC

HSS-E
PMTCT
6HXAlCr base
COATED

DIN 371

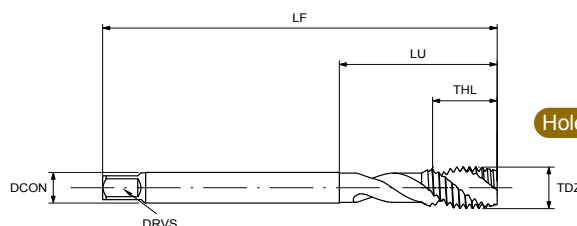
Series No. TM9430

► cutting conditions : p.2

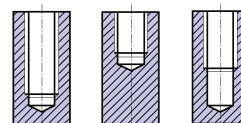
Patented geometry.



DIN 376



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM94300200	M2	0.4	3.2	45	13	2.8	2.1	2	DIN371	1.6
TM94300250	M2.5	0.45	3.6	50	15	2.8	2.1	2	DIN371	2.1
TM94300300	M3	0.5	4.0	56	18	3.5	2.7	3	DIN371	2.5
TM94300350	M3.5	0.6	4.8	56	20	4.0	3.0	3	DIN371	2.9
TM94300400	M4	0.7	5.6	63	21	4.5	3.4	3	DIN371	3.3
TM94300500	M5	0.8	6.4	70	25	6.0	4.9	3	DIN371	4.2
TM94300600	M6	1.0	8.0	80	30	6.0	4.9	3	DIN371	5.0
TM94300700	M7	1.0	10.0	80	30	7.0	5.5	3	DIN371	6.0
TM94300800	M8	1.25	13.0	90	35	8.0	6.2	3	DIN371	6.8
TM94300900	M9	1.25	13.0	90	35	9.0	7.0	3	DIN371	7.8
TM94301000	M10	1.5	15.0	100	39	10.0	8.0	3	DIN371	8.5
TM94301200	M12	1.75	18.0	110	44	9.0	7.0	3	DIN376	10.3
TM94301400	M14	2.0	20.0	110	44	11.0	9.0	3	DIN376	12.0
TM94301600	M16	2.0	20.0	110	44	12.0	9.0	3	DIN376	14.0
TM94301800	M18	2.5	25.0	125	50	14.0	11.0	4	DIN376	15.5
TM94302000	M20	2.5	25.0	140	54	16.0	12.0	4	DIN376	17.5
TM94302200	M22	2.5	25.0	140	54	18.0	14.5	4	DIN376	19.5
TM94302400	M24	3.0	30.0	160	60	18.0	14.5	4	DIN376	21.0

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE HSS-E-PM TAPS



SABRE SPIRAL POINT METRIC



DIN 371



DIN 376

HSS-E
PMTCT
6HXAlCr base
COATED

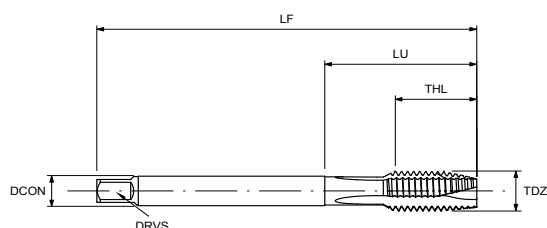
Series No. TM9515

► cutting conditions : p.2

Patented geometry.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM95150200	M2	0.4	8.0	45	13	2.8	2.1	2	DIN371	1.6
TM95150250	M2.5	0.45	9.0	50	15	2.8	2.1	2	DIN371	2.1
TM95150300	M3	0.5	11.0	56	18	3.5	2.7	3	DIN371	2.5
TM95150350	M3.5	0.6	12.0	56	20	4.0	3.0	3	DIN371	2.9
TM95150400	M4	0.7	13.0	63	21	4.5	3.4	3	DIN371	3.3
TM95150500	M5	0.8	15.0	70	25	6.0	4.9	3	DIN371	4.2
TM95150600	M6	1.0	17.0	80	30	6.0	4.9	3	DIN371	5.0
TM95150700	M7	1.0	17.0	80	30	7.0	5.5	3	DIN371	6.0
TM95150800	M8	1.25	20.0	90	35	8.0	6.2	3	DIN371	6.8
TM95150900	M9	1.25	20.0	90	35	9.0	7.0	3	DIN371	7.8
TM95151000	M10	1.5	22.0	100	39	10.0	8.0	3	DIN371	8.5
TM95151200	M12	1.75	24.0	110	44	9.0	7.0	3	DIN376	10.3
TM95151400	M14	2.0	26.0	110	44	11.0	9.0	3	DIN376	12.0
TM95151600	M16	2.0	27.0	110	44	12.0	9.0	3	DIN376	14.0
TM95151800	M18	2.5	30.0	125	50	14.0	11.0	3	DIN376	15.5
TM95152000	M20	2.5	32.0	140	54	16.0	12.0	3	DIN376	17.5
TM95152200	M22	2.5	32.0	140	54	18.0	14.5	3	DIN376	19.5
TM95152400	M24	3.0	34.0	160	60	18.0	14.5	3	DIN376	21.0

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE SPIRAL FLUTE METRIC FINE

HSS-E
PMTCT
6HXTHCHT
CTHFT
M60

FHA 45°

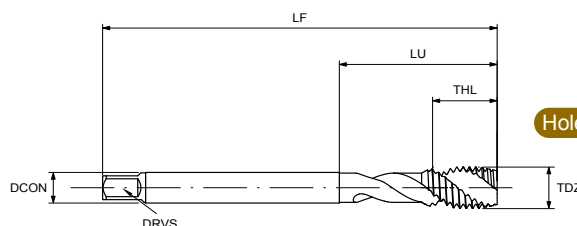
AlCr base
COATED

DIN 374

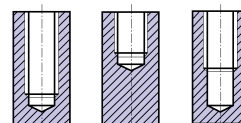
Series No. TM9431

► cutting conditions : p.2

Patented geometry.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM94310400	M4	0.5	5.6	63	21	2.8	2.1	3	DIN374	3.5
TM94310401	M4	0.35	5.6	63	21	2.8	2.1	3	DIN374	3.7
TM94310500	M5	0.5	6.4	70	25	3.5	2.7	3	DIN374	4.5
TM94310600	M6	0.75	8.0	80	30	4.5	3.4	3	DIN374	5.3
TM94310601	M6	0.5	8.0	80	30	4.5	3.4	3	DIN374	5.5
TM94310800	M8	1.0	10.0	90	36	6.0	4.9	3	DIN374	7.0
TM94310801	M8	0.75	10.0	80	30	6.0	4.9	3	DIN374	7.3
TM94310900	M9	1.0	10.0	90	36	6.0	4.9	3	DIN374	8.0
TM94310901	M9	0.75	10.0	80	30	6.0	4.9	3	DIN374	8.3
TM94311000	M10	1.25	13.0	100	40	7.0	5.5	3	DIN374	8.8
TM94311001	M10	1.0	10.0	90	36	7.0	5.5	3	DIN374	9.0
TM94311002	M10	0.75	10.0	90	36	7.0	5.5	3	DIN374	9.3
TM94311200	M12	1.5	15.0	100	40	9.0	7.0	3	DIN374	10.5
TM94311201	M12	1.25	15.0	100	40	9.0	7.0	3	DIN374	10.8
TM94311202	M12	1.0	15.0	100	40	9.0	7.0	3	DIN374	11.0
TM94311400	M14	1.5	15.0	100	40	11.0	9.0	3	DIN374	12.5
TM94311401	M14	1.25	15.0	100	40	11.0	9.0	3	DIN374	12.8
TM94311402	M14	1.0	15.0	100	40	11.0	9.0	3	DIN374	13.0

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ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE HSS-E-PM TAPS



SABRE SPIRAL FLUTE METRIC FINE



DIN 374

HSS-E
PMTCT
6HXTHCHT
CTHFT
M60

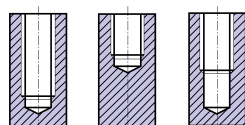
FHA 45°

AlCr base
COATED

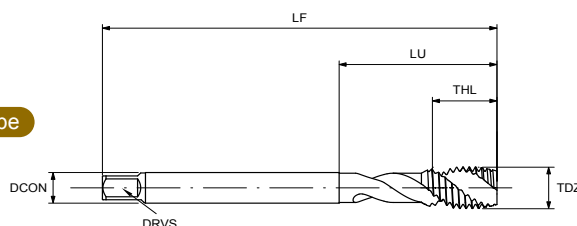
Series No. TM9431

► cutting conditions : p.2

Patented geometry.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM94311600	M16	1.5	15.0	100	40	12.0	9.0	3	DIN374	14.5
TM94311602	M16	1.0	15.0	100	40	12.0	9.0	3	DIN374	15.0
TM94311800	M18	2.0	20.0	125	50	14.0	11.0	4	DIN374	16.0
TM94311801	M18	1.5	15.0	110	44	14.0	11.0	4	DIN374	16.5
TM94311802	M18	1.0	15.0	110	44	14.0	11.0	4	DIN374	17.0
TM94312000	M20	2.0	20.0	140	54	16.0	12.0	4	DIN374	18.0
TM94312001	M20	1.5	15.0	125	50	16.0	12.0	4	DIN374	18.5
TM94312002	M20	1.0	15.0	125	50	16.0	12.0	4	DIN374	19.0
TM94312200	M22	2.0	20.0	140	54	18.0	14.5	4	DIN374	20.0
TM94312201	M22	1.5	15.0	125	50	18.0	14.5	4	DIN374	20.5
TM94312202	M22	1.0	15.0	125	50	18.0	14.5	4	DIN374	21.0
TM94312400	M24	2.0	20.0	140	54	18.0	14.5	4	DIN374	22.0
TM94312401	M24	1.5	15.0	140	54	18.0	14.5	4	DIN374	22.5
TM94312402	M24	1.0	15.0	140	54	18.0	14.5	4	DIN374	23.0

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE SPIRAL POINT METRIC FINE

HSS-E PM TCT 6HX THCHT B THFT M60 AlCr base COATED

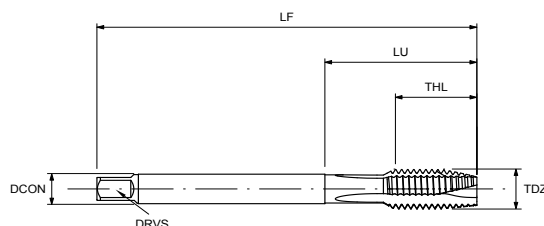


DIN 374

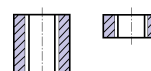
Series No. TM9516

► cutting conditions : p.2

Patented geometry.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM95160400	M4	0.5	10.0	63	21	2.8	2.1	3	DIN374	3.5
TM95160401	M4	0.35	10.0	63	21	2.8	2.1	3	DIN374	3.7
TM95160500	M5	0.5	11.0	70	25	3.5	2.7	3	DIN374	4.5
TM95160600	M6	0.75	13.0	80	30	4.5	3.4	3	DIN374	5.3
TM95160601	M6	0.5	13.0	80	30	4.5	3.4	3	DIN374	5.5
TM95160800	M8	1.0	17.0	90	36	6.0	4.9	3	DIN374	7.0
TM95160801	M8	0.75	14.0	80	30	6.0	4.9	3	DIN374	7.3
TM95160900	M9	1.0	20.0	90	36	6.0	4.9	3	DIN374	8.0
TM95160901	M9	0.75	17.0	80	30	6.0	4.9	3	DIN374	8.3
TM95161000	M10	1.25	22.0	100	40	7.0	5.5	3	DIN374	8.8
TM95161001	M10	1.0	18.0	90	36	7.0	5.5	3	DIN374	9.0
TM95161002	M10	0.75	18.0	90	36	7.0	5.5	3	DIN374	9.3
TM95161200	M12	1.5	22.0	100	40	9.0	7.0	3	DIN374	10.5
TM95161201	M12	1.25	22.0	100	40	9.0	7.0	3	DIN374	10.8
TM95161202	M12	1.0	18.0	100	40	9.0	7.0	3	DIN374	11.0
TM95161400	M14	1.5	22.0	100	40	11.0	9.0	3	DIN374	12.5
TM95161401	M14	1.25	22.0	100	40	11.0	9.0	3	DIN374	12.8
TM95161402	M14	1.0	18.0	100	40	11.0	9.0	3	DIN374	13.0

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ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary ○ Secondary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●



SABRE HSS-E-PM TAPS



SABRE SPIRAL POINT METRIC FINE



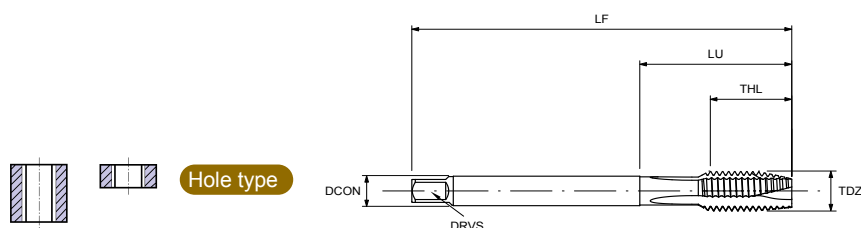
DIN 374

HSS-E
PMTCT
6HXAlCr base
COATED

Series No. TM9516

► cutting conditions : p.2

Patented geometry.



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM95161600	M16	1.5	22.0	100	40	12.0	9.0	3	DIN374	14.5
TM95161602	M16	1.0	18.0	100	40	12.0	9.0	3	DIN374	15.0
TM95161800	M18	2.0	26.0	125	50	14.0	11.0	3	DIN374	16.0
TM95161801	M18	1.5	25.0	110	44	14.0	11.0	3	DIN374	16.5
TM95161802	M18	1.0	20.0	110	44	14.0	11.0	3	DIN374	17.0
TM95162000	M20	2.0	27.0	140	54	16.0	12.0	3	DIN374	18.0
TM95162001	M20	1.5	25.0	125	50	16.0	12.0	3	DIN374	18.5
TM95162002	M20	1.0	20.0	125	50	16.0	12.0	3	DIN374	19.0
TM95162200	M22	2.0	27.0	140	54	18.0	14.5	3	DIN374	20.0
TM95162201	M22	1.5	25.0	125	50	18.0	14.5	3	DIN374	20.5
TM95162202	M22	1.0	20.0	125	50	18.0	14.5	3	DIN374	21.0
TM95162400	M24	2.0	27.0	140	54	18.0	14.5	3	DIN374	22.0
TM95162401	M24	1.5	27.0	140	54	18.0	14.5	3	DIN374	22.5
TM95162402	M24	1.0	20.0	140	54	18.0	14.5	3	DIN374	23.0

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE SPIRAL FLUTE UNC

HSS-E
PMTCT
2BXAlCr base
COATED

DIN 371

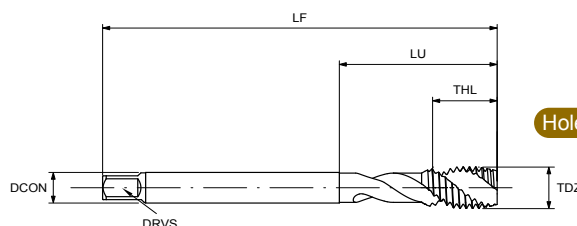
Series No. TM9432

► cutting conditions : p.2

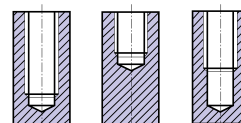
Patented geometry.



DIN 376



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM94320400	#4	40	5.1	56	18	3.5	2.7	2	DIN371	2.3
TM94320500	#5	40	5.1	56	18	3.5	2.7	3	DIN371	2.6
TM94320600	#6	32	6.4	56	20	4.0	3.0	3	DIN371	2.8
TM94320800	#8	32	6.4	63	21	4.5	3.4	3	DIN371	3.4
TM94321000	#10	24	8.5	70	25	6.0	4.9	3	DIN371	3.9
TM94321200	#12	24	8.5	80	30	6.0	4.9	3	DIN371	4.5
TM94329160	1/4	20	10.2	80	30	7.0	5.5	3	DIN371	5.1
TM94329200	5/16	18	14.2	90	35	8.0	6.2	3	DIN371	6.6
TM94329240	3/8	16	15.9	100	39	9.0	7.0	3	DIN371	8.0
TM94329280	7/16	14	18.2	110	40	8.0	6.2	3	DIN376	9.4
TM94329320	1/2	13	19.6	110	44	9.0	7.0	3	DIN376	10.8
TM94329360	9/16	12	21.2	110	44	11.0	9.0	3	DIN376	12.2
TM94329400	5/8	11	23.1	110	44	12.0	9.0	3	DIN376	13.6
TM94329480	3/4	10	25.4	125	50	14.0	11.0	4	DIN376	16.5
TM94329560	7/8	9	28.3	140	54	18.0	14.5	4	DIN376	19.5
TM94329640	1"	8	31.8	160	60	20.0	16.0	4	DIN376	22.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE HSS-E-PM TAPS



SABRE SPIRAL POINT UNC



DIN 371



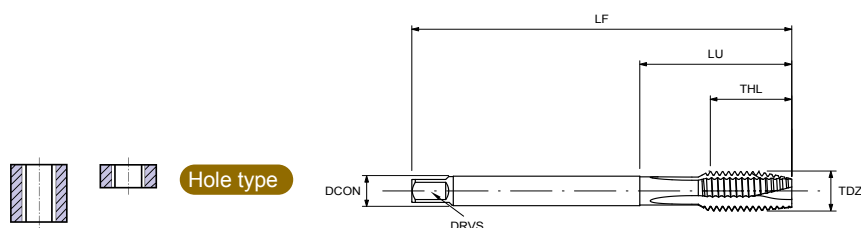
DIN 374

HSS-E
PMTCT
2BXAlCr base
COATED

Series No. TM9517

► cutting conditions : p.2

Patented geometry.



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM95170400	#4	40	11.0	56	18	3.5	2.7	2	DIN371	2.3
TM95170500	#5	40	11.0	56	18	3.5	2.7	3	DIN371	2.6
TM95170600	#6	32	12.0	56	20	4.0	3.0	3	DIN371	2.8
TM95170800	#8	32	13.0	63	21	4.5	3.4	3	DIN371	3.4
TM95171000	#10	24	15.0	70	25	6.0	4.9	3	DIN371	3.9
TM95171200	#12	24	16.0	80	30	6.0	4.9	3	DIN371	4.5
TM95179160	1/4	20	17.0	80	30	7.0	5.5	3	DIN371	5.1
TM95179200	5/16	18	20.0	90	35	8.0	6.2	3	DIN371	6.6
TM95179240	3/8	16	22.0	100	39	9.0	7.0	3	DIN371	8.0
TM95179280	7/16	14	22.0	110	40	8.0	6.2	3	DIN376	9.4
TM95179320	1/2	13	25.0	110	44	9.0	7.0	3	DIN376	10.8
TM95179360	9/16	12	26.0	110	44	11.0	9.0	3	DIN376	12.2
TM95179400	5/8	11	27.0	110	44	12.0	9.0	3	DIN376	13.6
TM95179480	3/4	10	30.0	125	50	14.0	11.0	3	DIN376	16.5
TM95179560	7/8	9	32.0	140	54	18.0	14.5	3	DIN376	19.5
TM95179640	1"	8	36.0	160	60	20.0	16.0	3	DIN376	22.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE SPIRAL FLUTE UNF

HSS-E
PMTCT
2BXTHCHT
CTHFT
UN60

FHA 45°

AlCr base
COATED

DIN 371

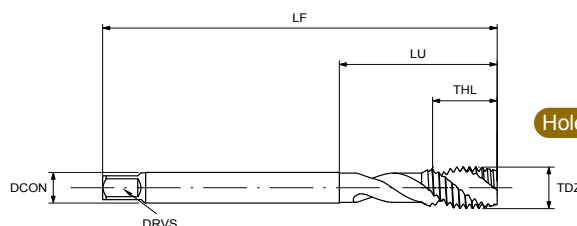
Series No. TM9433

► cutting conditions : p.2

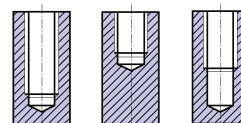
Patented geometry.



DIN 376



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM94330400	#4	48	5.1	56	18	3.5	2.7	2	DIN371	2.4
TM94330500	#5	44	5.1	56	18	3.5	2.7	3	DIN371	2.7
TM94330600	#6	40	6.4	56	20	4.0	3.0	3	DIN371	2.9
TM94330800	#8	36	6.4	63	21	4.5	3.4	3	DIN371	3.5
TM94331000	#10	32	8.5	70	25	6.0	4.9	3	DIN371	4.1
TM94331200	#12	28	8.5	80	30	6.0	4.9	3	DIN371	4.6
TM94339160	1/4	28	10.2	80	30	7.0	5.5	3	DIN371	5.5
TM94339200	5/16	24	10.6	90	35	8.0	6.2	3	DIN371	6.9
TM94339240	3/8	24	10.6	100	39	9.0	7.0	3	DIN371	8.5
TM94339280	7/16	20	12.7	100	40	8.0	6.2	3	DIN374	9.9
TM94339320	1/2	20	12.7	100	40	9.0	7.0	3	DIN374	11.5
TM94339360	9/16	18	14.2	100	40	11.0	9.0	3	DIN374	12.9
TM94339400	5/8	18	14.2	100	40	12.0	9.0	3	DIN374	14.5
TM94339480	3/4	16	15.9	110	44	14.0	11.0	4	DIN374	17.5
TM94339560	7/8	14	18.2	125	50	18.0	14.5	4	DIN374	20.5
TM94339640	1"	12	21.2	140	54	20.0	16.0	4	DIN374	23.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE HSS-E-PM TAPS



SABRE SPIRAL POINT UNF



DIN 371

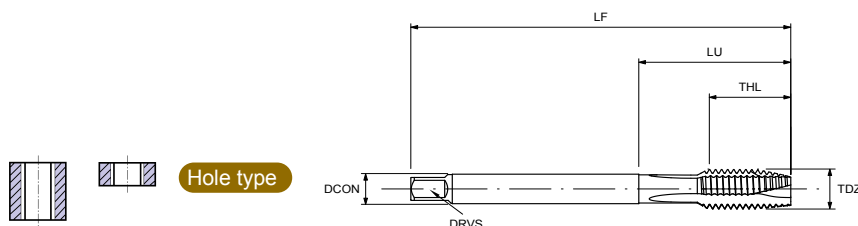


DIN 374

HSS-E
PMTCT
2BXAlCr base
COATED
Series No. TM9518

► cutting conditions : p.2

Patented geometry.



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM95180400	#4	48	11.0	56	18	3.5	2.7	2	DIN371	2.4
TM95180500	#5	44	11.0	56	18	3.5	2.7	3	DIN371	2.7
TM95180600	#6	40	12.0	56	20	4.0	3.0	3	DIN371	2.9
TM95180800	#8	36	13.0	63	21	4.5	3.4	3	DIN371	3.5
TM95181000	#10	32	15.0	70	25	6.0	4.9	3	DIN371	4.1
TM95181200	#12	28	16.0	80	30	6.0	4.9	3	DIN371	4.6
TM95189160	1/4	28	17.0	80	30	7.0	5.5	3	DIN371	5.5
TM95189200	5/16	24	17.0	90	35	8.0	6.2	3	DIN371	6.9
TM95189240	3/8	24	18.0	100	39	9.0	7.0	3	DIN371	8.5
TM95189280	7/16	20	22.0	100	40	8.0	6.2	3	DIN374	9.9
TM95189320	1/2	20	22.0	100	40	9.0	7.0	3	DIN374	11.5
TM95189360	9/16	18	22.0	100	40	11.0	9.0	3	DIN374	12.9
TM95189400	5/8	18	22.0	100	40	12.0	9.0	3	DIN374	14.5
TM95189480	3/4	16	25.0	110	44	14.0	11.0	3	DIN374	17.5
TM95189560	7/8	14	26.0	125	50	18.0	14.5	3	DIN374	20.5
TM95189640	1"	12	28.0	140	54	20.0	16.0	3	DIN374	23.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE SPIRAL FLUTE METRIC SHORT CHAMFER

HSS-E
PMTCT
6HXTHCHT
ETHFT
M60

FHA 45°

AlCr base
COATED

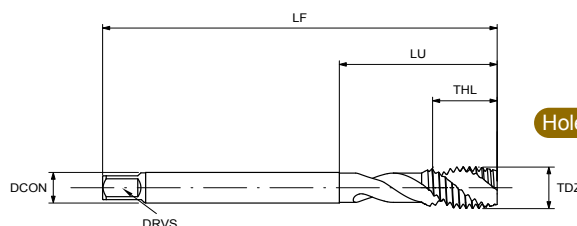
DIN 371

Series No. TM9834

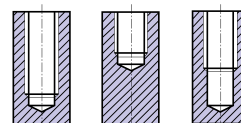
► cutting conditions : p.2

Short chamfer Form E
Patented geometry.

DIN 376



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM98340200	M2	0.4	3.2	45	13	2.8	2.1	2	DIN371	1.6
TM98340300	M3	0.5	4.0	56	18	3.5	2.7	3	DIN371	2.5
TM98340400	M4	0.7	5.6	63	21	4.5	3.4	3	DIN371	3.3
TM98340500	M5	0.8	6.4	70	25	6.0	4.9	3	DIN371	4.2
TM98340600	M6	1.0	8.0	80	30	6.0	4.9	3	DIN371	5.0
TM98340800	M8	1.25	13.0	90	35	8.0	6.2	3	DIN371	6.8
TM98341000	M10	1.5	15.0	100	39	10.0	8.0	3	DIN371	8.5
TM98341200	M12	1.75	18.0	110	44	9.0	7.0	3	DIN376	10.3
TM98341400	M14	2.0	20.0	110	44	11.0	9.0	3	DIN376	12.0
TM98341600	M16	2.0	20.0	110	44	12.0	9.0	3	DIN376	14.0
TM98342000	M20	2.5	25.0	140	54	16.0	12.0	4	DIN376	17.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
○ Secondary	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



SABRE HSS-E-PM TAPS

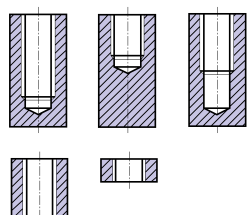
SABRE HS STRAIGHT FLUTE METRIC



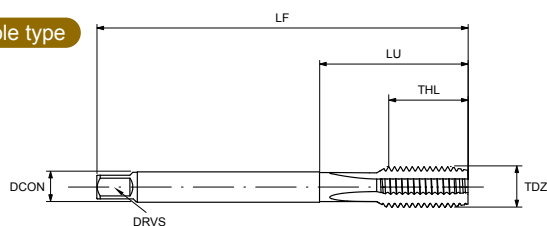
DIN 371



DIN 376



Hole type

HSS-E
PMTCT
6HXTHCHT
CTHFT
M60TiCN
COATED
Series No. TM9235

► cutting conditions : p.3

 For high speed machining and
high precision threads.


EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM92350300	M3	0.5	5	56	18	3.5	2.7	3	DIN371	2.5
TM92350400	M4	0.7	7	63	21	4.5	3.4	3	DIN371	3.3
TM92350500	M5	0.8	8	70	25	6.0	4.9	3	DIN371	4.2
TM92350600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM92350800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM92351000	M10	1.5	15	100	39	10.0	8.0	4	DIN371	8.5
TM92351200	M12	1.75	18	110	44	9.0	7.0	4	DIN376	10.2
TM92351400	M14	2.0	20	110	44	11.0	9.0	4	DIN376	12.0
TM92351600	M16	2.0	20	110	44	12.0	9.0	4	DIN376	14.0
TM92351800	M18	2.5	25	125	50	14.0	11.0	4	DIN376	15.5
TM92352000	M20	2.5	25	140	54	16.0	12.0	4	DIN376	17.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●				●	●	●								
○ Secondary																



SABRE HS SPIRAL FLUTE METRIC THROUGH COOLANT

HSS-E
PM

TCT
6HX

THCHT
C

THFT
M60

FHA 45°

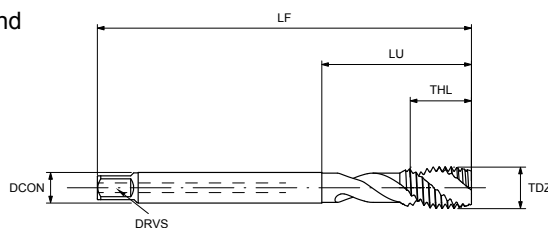
CNSC 1

TIN
COATED

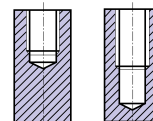
Series No. TM9036

► cutting conditions : p.2

Through coolant.
For high speed machining and
high precision threads.



Hole type



DIN 371

DIN 376

EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM90360600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM90360800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM90361000	M10	1.5	15	100	39	10.0	8.0	3	DIN371	8.5
TM90361200	M12	1.75	18	110	44	9.0	7.0	3	DIN376	10.2
TM90361400	M14	2.0	20	110	44	11.0	9.0	3	DIN376	12.0
TM90361600	M16	2.0	20	110	44	12.0	9.0	3	DIN376	14.0
TM90361800	M18	2.5	25	125	50	14.0	11.0	4	DIN376	15.5
TM90362000	M20	2.5	25	140	54	16.0	12.0	4	DIN376	17.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●				○	○	●	○							
○ Secondary																



SABRE HS SPIRAL FLUTE METRIC



DIN 371



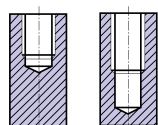
DIN 376

HSS-E
PMTCT
6HXTIN
COATED

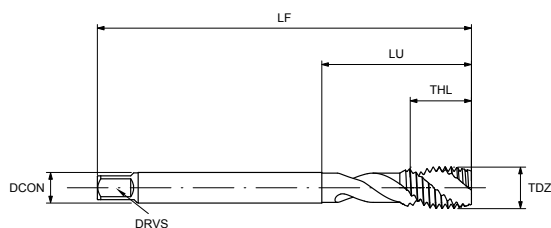
Series No. TM9031

► cutting conditions : p.2

For high speed machining and
high precision threads.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM90310300	M3	0.5	6	56	18	3.5	2.7	3	DIN371	2.5
TM90310400	M4	0.7	7	63	21	4.5	3.4	3	DIN371	3.3
TM90310500	M5	0.8	8	70	25	6.0	4.9	3	DIN371	4.2
TM90310600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM90310800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM90311000	M10	1.5	15	100	39	10.0	8.0	3	DIN371	8.5
TM90311200	M12	1.75	18	110	44	9.0	7.0	3	DIN376	10.2
TM90311400	M14	2.0	20	110	44	11.0	9.0	3	DIN376	12.0
TM90311600	M16	2.0	20	110	44	12.0	9.0	3	DIN376	14.0
TM90311800	M18	2.5	25	125	50	14.0	11.0	4	DIN376	15.5
TM90312000	M20	2.5	25	140	54	16.0	12.0	4	DIN376	17.5

ISO		P			M		K		N					S		H	
VDI GROUP		1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	○ Secondary	●	●				○	○	●	○							



SABRE HS SPIRAL POINT METRIC THROUGH COOLANT

HSS-E
PMTCT
6HXTHCHT
BTHFT
M60

CNCS 1

TIN
COATED

DIN 371

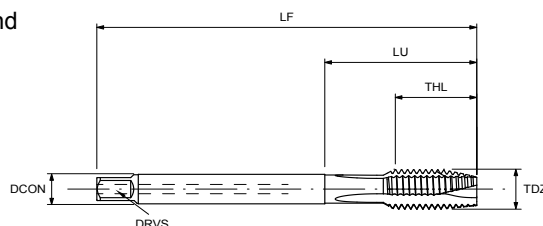
Series No. TM9136

► cutting conditions : p.3

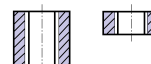
Through coolant.
For high speed machining and
high precision threads.



DIN 376



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM91360600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM91360800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM91361000	M10	1.5	15	100	39	10.0	8.0	3	DIN371	8.5
TM91361200	M12	1.75	18	110	44	9.0	7.0	4	DIN376	10.2
TM91361400	M14	2.0	20	110	44	11.0	9.0	4	DIN376	12.0
TM91361600	M16	2.0	20	110	44	12.0	9.0	4	DIN376	14.0
TM91361800	M18	2.5	25	125	50	14.0	11.0	4	DIN376	15.5
TM91362000	M20	2.5	25	140	54	16.0	12.0	4	DIN376	17.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●				○	○	●	○							
○ Secondary																



SABRE HS SPIRAL POINT METRIC



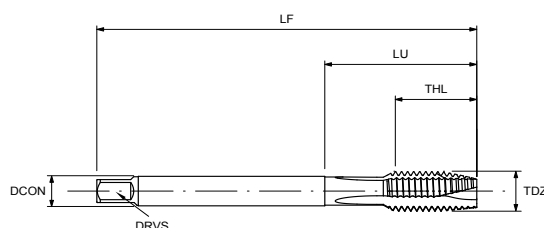
DIN 371



DIN 376



Hole type

HSS-E
PMTCT
6HXTHCHT
BTHFT
M60TIN
COATED

Series No. TM9133

► cutting conditions : p.3

For high speed machining and
high precision threads.



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM91330300	M3	0.5	5	56	18	3.5	2.7	3	DIN371	2.5
TM91330400	M4	0.7	7	63	21	4.5	3.4	3	DIN371	3.3
TM91330500	M5	0.8	8	70	25	6.0	4.9	3	DIN371	4.2
TM91330600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM91330800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM91331000	M10	1.5	15	100	39	10.0	8.0	3	DIN371	8.5
TM91331200	M12	1.75	18	110	44	9.0	7.0	4	DIN376	10.2
TM91331400	M14	2.0	20	110	44	11.0	9.0	4	DIN376	12.0
TM91331600	M16	2.0	20	110	44	12.0	9.0	4	DIN376	14.0
TM91331800	M18	2.5	25	125	50	14.0	11.0	4	DIN376	15.5
TM91332000	M20	2.5	25	140	54	16.0	12.0	4	DIN376	17.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●				○	○	●	○							
○ Secondary																



SABRE HS COLD FORMING METRIC THROUGH COOLANT

HSS-E
PMTCT
6HXTHCHT
CTHFT
M60

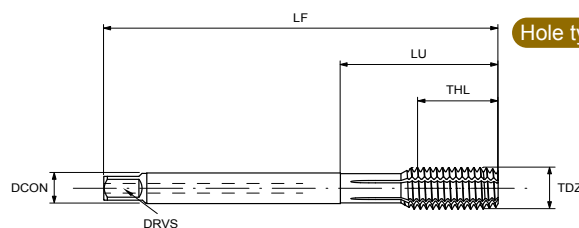
CNCS 1

TIN
COATED

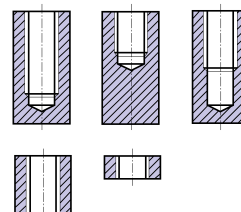
Series No. TM9336

► cutting conditions : p.3

Through coolant.
For high speed machining and
high precision threads.



Hole type



DIN 371

DIN 376

EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		STD. BSG	TAPPING DRILL PHD
						DCON	DRVS		
TM93360600	M6	1.0	10	80	30	6.0	4.9	DIN371	5.6
TM93360800	M8	1.25	13	90	35	8.0	6.2	DIN371	7.4
TM93361000	M10	1.5	15	100	39	10.0	8.0	DIN371	9.3
TM93361200	M12	1.75	18	110	44	9.0	7.0	DIN376	11.2
TM93361400	M14	2.0	26	110	44	11.0	9.0	DIN376	13.0
TM93361600	M16	2.0	27	110	44	12.0	9.0	DIN376	15.0
TM93361800	M18	2.5	30	125	50	14.0	11.0	DIN376	16.8
TM93362000	M20	2.5	32	140	54	16.0	12.0	DIN376	18.8

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	●	●		●				●	●							
○ Secondary																



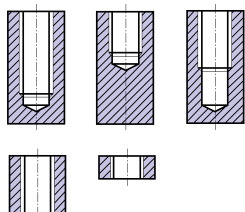
SABRE HS COLD FORMING METRIC



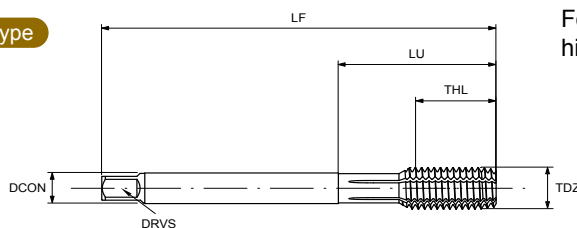
DIN 371



DIN 376



Hole type

HSS-E
PMTCT
6HXTHCHT
CTHFT
M60TIN
COATED

Series No. TM9337

► cutting conditions : p.3

With oil grooves.
For high speed machining and
high precision threads.



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		STD. BSG	TAPPING DRILL PHD
						DCON	DRVS		
TM93370300	M3	0.5	5	56	18	3.5	2.7	DIN371	2.8
TM93370400	M4	0.7	7	63	21	4.5	3.4	DIN371	3.7
TM93370500	M5	0.8	8	70	25	6.0	4.9	DIN371	4.7
TM93370600	M6	1.0	10	80	30	6.0	4.9	DIN371	5.6
TM93370800	M8	1.25	13	90	35	8.0	6.2	DIN371	7.4
TM93371000	M10	1.5	15	100	39	10.0	8.0	DIN371	9.3
TM93371200	M12	1.75	18	110	44	9.0	7.0	DIN376	11.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary ○ Secondary	●	●		●				●	●							



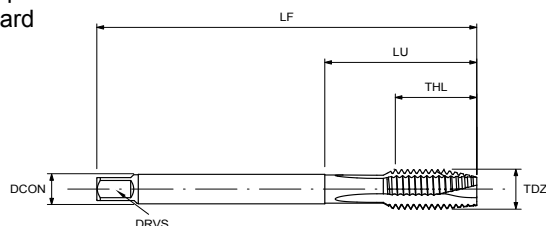
SABRE S SPIRAL POINT METRIC

HSS-E
PMTCT
6HBRIGHT
FINISH

Series No. TM7110

► cutting conditions : p.3

Thick web for higher cutting speed.
Titanium, Nickel alloys and hard materials.

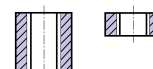


DIN 371



DIN 376

Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM71100200	M2	0.4	8	45	13	2.8	2.1	3	DIN371	1.6
TM71100220	M2.2	0.45	8	45	13	2.8	2.1	3	DIN371	1.75
TM71100250	M2.5	0.45	9	50	15	2.8	2.1	3	DIN371	2.05
TM71100300	M3	0.5	11	56	18	3.5	2.7	3	DIN371	2.5
TM71100350	M3.5	0.6	12	56	20	4.0	3.0	3	DIN371	2.9
TM71100400	M4	0.7	13	63	21	4.5	3.4	3	DIN371	3.3
TM71100450	M4.5	0.75	14	63	25	6.0	4.9	3	DIN371	3.7
TM71100500	M5	0.8	15	70	25	6.0	4.9	3	DIN371	4.2
TM71100600	M6	1.0	17	80	30	6.0	4.9	3	DIN371	5.0
TM71100700	M7	1.0	17	80	30	7.0	5.5	3	DIN371	6.0
TM71100800	M8	1.25	20	90	35	8.0	6.2	3	DIN371	6.8
TM71101000	M10	1.5	22	100	39	10.0	8.0	3	DIN371	8.5
TM71101200	M12	1.75	24	110	44	9.0	7.0	3	DIN376	10.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary ○ Secondary		●											○	●		



SABRE S SPIRAL FLUTE METRIC



DIN 371



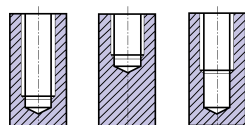
DIN 376

HSS-E
PMTCT
6HBRIGHT
FINISH

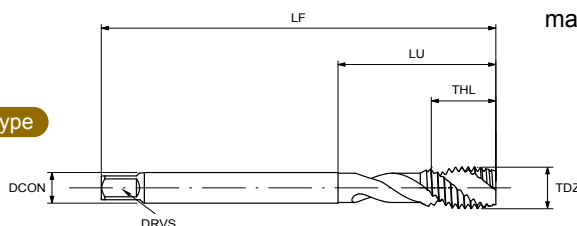
Series No. TM7210

► cutting conditions : p.3

Titanium, Nickel alloys and hard materials.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM72100200	M2	0.4	8	45	13	2.8	2.1	3	DIN371	1.6
TM72100220	M2.2	0.45	8	45	13	2.8	2.1	3	DIN371	1.75
TM72100250	M2.5	0.45	9	50	15	2.8	2.1	3	DIN371	2.05
TM72100300	M3	0.5	6	56	18	3.5	2.7	3	DIN371	2.5
TM72100350	M3.5	0.6	7	56	20	4.0	3.0	3	DIN371	2.9
TM72100400	M4	0.7	7	63	21	4.5	3.4	3	DIN371	3.3
TM72100500	M5	0.8	8	70	25	6.0	4.9	3	DIN371	4.2
TM72100600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM72100700	M7	1.0	10	80	30	7.0	5.5	3	DIN371	6.0
TM72100800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM72101000	M10	1.5	15	100	39	10.0	8.0	3	DIN371	8.5
TM72101200	M12	1.75	18	110	44	9.0	7.0	3	DIN376	10.2

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary ○ Secondary		●											○	●		



SABRE S SPIRAL FLUTE METRIC

HSS-E
PMTCT
6HTiAlN
COATED

DIN 371

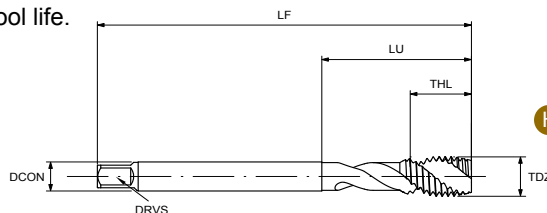
Series No. TM7428

► cutting conditions : p.3

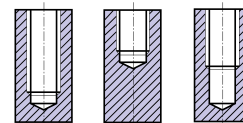
Nickel alloys and hard materials.
TiAlN coated for increased tool life.



DIN 376



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM74280200	M2	0.4	8	45	13	2.8	2.1	3	DIN371	1.6
TM74280250	M2.5	0.45	9	50	15	2.8	2.1	3	DIN371	2.05
TM74280300	M3	0.5	6	56	18	3.5	2.7	3	DIN371	2.5
TM74280350	M3.5	0.6	7	56	20	4.0	3.0	3	DIN371	2.9
TM74280400	M4	0.7	7	63	21	4.5	3.4	3	DIN371	3.3
TM74280450	M4.5	0.75	8	70	25	6.0	4.9	3	DIN371	3.7
TM74280500	M5	0.8	8	70	25	6.0	4.9	3	DIN371	4.2
TM74280600	M6	1.0	10	80	30	6.0	4.9	3	DIN371	5.0
TM74280800	M8	1.25	13	90	35	8.0	6.2	3	DIN371	6.8
TM74281000	M10	1.5	15	100	39	10.0	8.0	3	DIN371	8.5
TM74281200	M12	1.75	18	110	44	9.0	7.0	3	DIN376	10.2
TM74281400	M14	2.0	20	110	44	11.0	9.0	3	DIN376	12.0
TM74281600	M16	2.0	20	110	44	12.0	9.0	3	DIN376	14.0
TM74281800	M18	2.5	25	125	50	14.0	11.0	4	DIN376	15.5
TM74282000	M20	2.5	25	140	54	16.0	12.0	4	DIN376	17.5
TM74282200	M22	2.5	25	140	54	18.0	14.5	4	DIN376	19.5
TM74282400	M24	3.0	30	160	60	18.0	14.5	4	DIN376	21.0
TM74282700	M27	3.0	30	160	60	20.0	16.0	4	DIN376	24.0
TM74283000	M30	3.5	35	180	70	22.0	18.0	4	DIN376	26.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	○ Secondary	●											●			



SABRE HSS-E-PM TAPS



SABRE S SPIRAL POINT METRIC



DIN 371



DIN 376

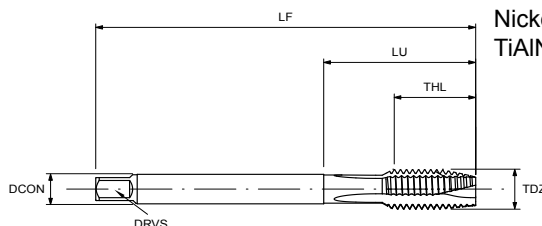
HSS-E
PMTCT
6HTiAlN
COATED
Series No. TM7328

► cutting conditions : p.3

Thick web for higher cutting speed.
Nickel alloys and hard materials.
TiAlN coated for increased tool life.



Hole type



EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM73280200	M2	0.4	8	45	13	2.8	2.1	3	DIN371	1.6
TM73280250	M2.5	0.45	9	50	15	2.8	2.1	3	DIN371	2.05
TM73280300	M3	0.5	11	56	18	3.5	2.7	3	DIN371	2.5
TM73280350	M3.5	0.6	12	56	20	4.0	3.0	3	DIN371	2.9
TM73280400	M4	0.7	13	63	21	4.5	3.4	3	DIN371	3.3
TM73280450	M4.5	0.75	14	70	25	6.0	4.9	3	DIN371	3.7
TM73280500	M5	0.8	15	70	25	6.0	4.9	3	DIN371	4.2
TM73280600	M6	1.0	17	80	30	6.0	4.9	3	DIN371	5.0
TM73280800	M8	1.25	20	90	35	8.0	6.2	3	DIN371	6.8
TM73281000	M10	1.5	22	100	39	10.0	8.0	3	DIN371	8.5
TM73281200	M12	1.75	24	110	44	9.0	7.0	3	DIN376	10.2
TM73281400	M14	2.0	26	110	44	11.0	9.0	3	DIN376	12.0
TM73281600	M16	2.0	27	110	44	12.0	9.0	4	DIN376	14.0
TM73281800	M18	2.5	30	125	50	14.0	11.0	4	DIN376	15.5
TM73282000	M20	2.5	32	140	54	16.0	12.0	4	DIN376	17.5
TM73282200	M22	2.5	32	140	54	18.0	14.5	4	DIN376	19.5
TM73282400	M24	3.0	34	160	60	18.0	14.5	4	DIN376	21.0
TM73282700	M27	3.0	36	160	60	20.0	16.0	4	DIN376	24.0
TM73283000	M30	3.5	40	180	70	22.0	18.0	4	DIN376	26.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	○ Secondary	●											●			



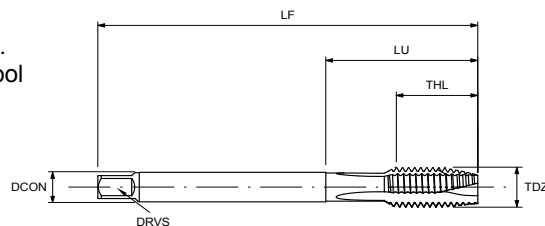
SABRE S SPIRAL POINT METRIC

HSS-E
PMTCT
6HTiAlN
COATED

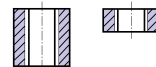
Series No. TM7010

► cutting conditions : p.3

Interrupted thread for reduced torque.
Titanium and Titanium alloys.
TiAlN coated for increased tool life.



Hole type



DIN 371



DIN 376

EUROPA CODE ORDCODE	SIZE TDZ	PITCH TP	THREAD LENGTH THL	O/ALL LENGTH LF	NECK LENGTH LU	CZC _{MS}		NO. OF FLUTES NOF	STD. BSG	TAPPING DRILL PHD
						DCON	DRVS			
TM70100200	M2	0.4	8	45	13	2.8	2.1	3	DIN371	1.6
TM70100250	M2.5	0.45	9	50	15	2.8	2.1	3	DIN371	2.05
TM70100300	M3	0.5	11	56	18	3.5	2.7	3	DIN371	2.5
TM70100350	M3.5	0.6	12	56	20	4.0	3.0	3	DIN371	2.9
TM70100400	M4	0.7	13	63	21	4.5	3.4	3	DIN371	3.3
TM70100450	M4.5	0.75	14	70	25	6.0	4.9	3	DIN371	3.7
TM70100500	M5	0.8	15	70	25	6.0	4.9	3	DIN371	4.2
TM70100600	M6	1.0	17	80	30	6.0	4.9	3	DIN371	5.0
TM70100800	M8	1.25	20	90	35	8.0	6.2	3	DIN371	6.8
TM70101000	M10	1.5	22	100	39	10.0	8.0	3	DIN371	8.5
TM70101200	M12	1.75	24	110	44	9.0	7.0	3	DIN376	10.2
TM70101400	M14	2.0	26	110	44	11.0	9.0	3	DIN376	12.0
TM70101600	M16	2.0	27	110	44	12.0	9.0	3	DIN376	14.0
TM70101800	M18	2.5	30	125	50	14.0	11.0	4	DIN376	15.5
TM70102000	M20	2.5	32	140	54	16.0	12.0	4	DIN376	17.5
TM70102200	M22	2.5	32	140	54	18.0	14.5	4	DIN376	19.5
TM70102400	M24	3.0	34	160	60	18.0	14.5	4	DIN376	21.0
TM70102700	M27	3.0	36	160	60	20.0	16.0	4	DIN376	24.0
TM70103000	M30	3.5	40	180	70	22.0	18.0	4	DIN376	26.5

ISO	P			M		K		N					S		H	
VDI GROUP	1-5	6-9	10-11	12, 13	14	15-16	17-20	21-25	26-28	29.1	29.2	30	31-35	36-37	38-39	40-41
● Primary	○ Secondary	○											●			