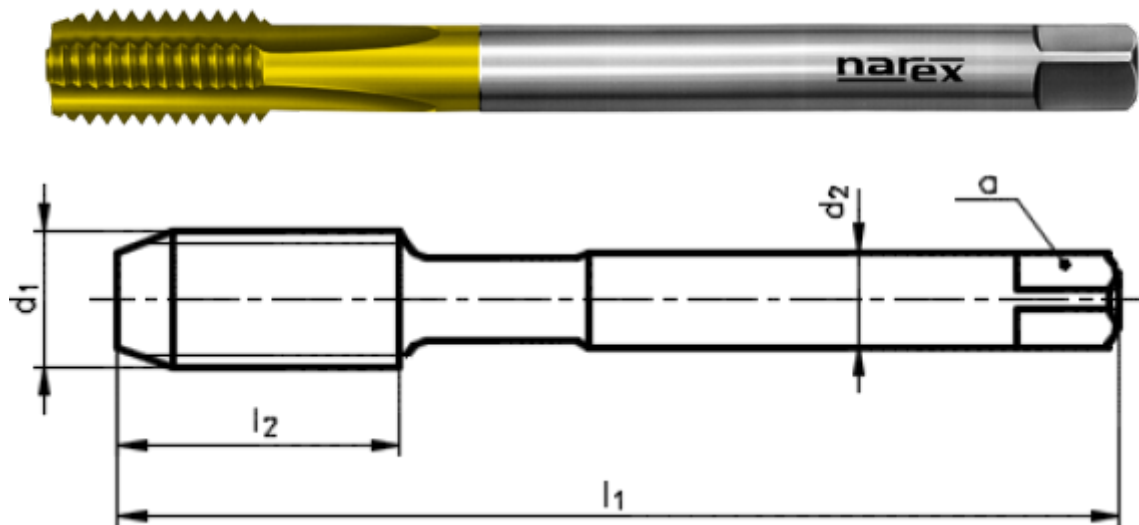


Machine tap with straight flutes



CATALOGUE NUMBER: 3010

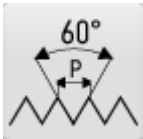
Machine tap with straight flutes, metric, DIN 376, DIN 374, TiN coated, suitable for structural steels, free cutting steels, short chipping copper alloys, grey cast iron, aluminium alloys with Si>10%.

M

THREAD M
ISO Metric coarse thread

MF

THREAD MF
ISO Metric fine thread



PROFILE SKETCH
60°

DIN 13

THREAD STANDARD
DIN13

typ
N

TYPE N
Tap for steels up to 800 N/mm²

HSSE

TAP MATERIAL
Super high speed steel

TiN

COATING
Titanium nitride coating

DIN 376

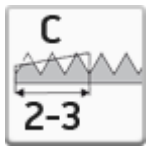
TAP STANDARD
DIN 376

DIN 374

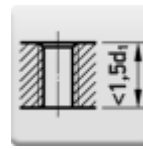
TAP STANDARD
DIN 374

ISO 2 6H

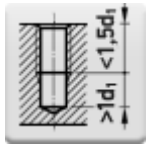
THREAD TOLERANCE
ISO 2 - 6H



CHAMFER C
Length 2-3 pitch



HOLE TYPE
Through hole (thread length $L < 1,5 \times d1$)



HOLE TYPE
Blind hole (thread length $< 1,5 \times d1$, pilot drilling depth $\geq L + d1$)

Select product model

ID	D1	P	Tolerance	l1	l2	d2	a	Price excl. VAT	Price incl. VAT
041535220030000	M3	0,5	6H	56	9	2,2	-	12.30 EUR	14.88 EUR
041535220040000	M4	0,7	6H	63	12	2,8	2,1	12.45 EUR	15.06 EUR
041535220050000	M5	0,8	6H	70	13	3,5	2,7	12.65 EUR	15.31 EUR
041535220060000	M6	1	6H	80	15	4,5	3,4	12.75 EUR	15.43 EUR
041535220070000	M7	1	6H	80	15	5,5	4,3	15.35 EUR	18.57 EUR
041535220080000	M8	1,25	6H	90	18	6	4,9	14.45 EUR	17.48 EUR
041535220100000	M10	1,5	6H	100	20	7	5,5	16.65 EUR	20.15 EUR
041535220120000	M12	1,75	6H	110	23	9	7	20.00 EUR	24.20 EUR
041535220140000	M14	2	6H	110	25	11	9	24.85 EUR	30.07 EUR
041535220160000	M16	2	6H	110	25	12	9	25.20 EUR	30.49 EUR
041535220180000	M18	2,5	6H	125	30	14	11	42.30 EUR	51.18 EUR
041535220200000	M20	2,5	6H	140	30	16	12	45.40 EUR	54.93 EUR
041535220220000	M22	2,5	6H	140	30	18	14,5	60.95 EUR	73.75 EUR
041535220240000	M24	3	6H	160	36	18	14,5	57.00 EUR	68.97 EUR
041535220270000	M27	3	6H	160	36	20	16	74.60 EUR	90.27 EUR
041535220300000	M30	3,5	6H	180	40	22	18	92.10 EUR	111.44 EUR
041535220330000	M33	3,5	6H	180	42	25	20	118.05 EUR	142.84 EUR
041535220360000	M36	4	6H	200	50	28	22	145.35 EUR	175.87 EUR
041535220390000	M39	4	6H	200	50	32	24	188.35 EUR	227.90 EUR
041535220420000	M42	4,5	6H	200	56	32	24	208.35 EUR	252.10 EUR
041535220450000	M45	4,5	6H	200	56	36	29	237.70 EUR	287.62 EUR

ID	D1	P	Tolerance	l1	l2	d2	a	Price excl. VAT	Price incl. VAT
041535220480000	M48	5	6H	250	63	36	29	273.75 EUR	331.24 EUR
041535220520000	M52	5	6H	250	63	40	32	295.35 EUR	357.37 EUR
041535420041000	M4	0,5	6H	63	12	2,8	2,1	18.00 EUR	21.78 EUR
041535420051000	M5	0,5	6H	70	13	3,5	2,7	18.25 EUR	22.08 EUR
041535420068000	M6	0,75	6H	80	15	4,5	3,4	18.45 EUR	22.32 EUR
041535420069000	M6	0,5	6H	80	15	4,5	3,4	18.70 EUR	22.63 EUR
041535420078000	M7	0,75	6H	80	15	5,5	4,3	20.35 EUR	24.62 EUR
041535420087000	M8	1	6H	90	18	6	4,9	18.55 EUR	22.45 EUR
041535420088000	M8	0,75	6H	80	15	6	4,9	20.35 EUR	24.62 EUR
041535420097000	M9	1	6H	90	18	7	5,5	25.10 EUR	30.37 EUR
041535420106000	M10	1,25	6H	100	20	7	5,5	24.60 EUR	29.77 EUR
041535420107000	M10	1	6H	90	20	7	5,5	18.70 EUR	22.63 EUR
041535420108000	M10	0,75	6H	90	20	7	5,5	27.30 EUR	33.03 EUR
041535420117000	M11	1	6H	90	20	8	6,2	29.20 EUR	35.33 EUR
041535420125000	M12	1,5	6H	100	21	9	7	21.95 EUR	26.56 EUR
041535420126000	M12	1,25	6H	100	21	9	7	25.05 EUR	30.31 EUR
041535420127000	M12	1	6H	100	21	9	7	22.35 EUR	27.04 EUR
041535420145000	M14	1,5	6H	100	21	11	9	28.30 EUR	34.24 EUR
041535420146000	M14	1,25	6H	100	21	11	9	27.45 EUR	33.21 EUR
041535420147000	M14	1	6H	100	21	11	9	28.95 EUR	35.03 EUR
041535420157000	M15	1	6H	100	21	12	9	35.30 EUR	42.71 EUR
041535420165000	M16	1,5	6H	100	21	12	9	31.25 EUR	37.81 EUR
041535420167000	M16	1	6H	100	21	12	9	33.85 EUR	40.96 EUR
041535420177000	M17	1	6H	100	21	12	9	49.60 EUR	60.02 EUR
041535420184000	M18	2	6H	125	24	14	11	44.35 EUR	53.66 EUR
041535420185000	M18	1,5	6H	110	24	14	11	38.95 EUR	47.13 EUR
041535420187000	M18	1	6H	110	24	14	11	41.65 EUR	50.40 EUR
041535420204000	M20	2	6H	140	30	16	12	62.70 EUR	75.87 EUR
041535420205000	M20	1,5	6H	125	24	16	12	45.40 EUR	54.93 EUR
041535420207000	M20	1	6H	125	24	16	12	48.35 EUR	58.50 EUR
041535420224000	M22	2	6H	140	30	18	14,5	66.35 EUR	80.28 EUR
041535420225000	M22	1,5	6H	125	24	18	14,5	48.35 EUR	58.50 EUR

ID	D1	P	Tolerance	l1	l2	d2	a	Price excl. VAT	Price incl. VAT
041535420227000	M22	1	6H	125	24	18	14,5	67.00 EUR	81.07 EUR
041535420244000	M24	2	6H	140	26	18	14,5	60.40 EUR	73.08 EUR
041535420245000	M24	1,5	6H	140	26	18	14,5	52.85 EUR	63.95 EUR
041535420247000	M24	1	6H	140	26	18	14,5	72.55 EUR	87.79 EUR
041535420255000	M25	1,5	6H	140	26	18	14,5	97.90 EUR	118.46 EUR
041535420265000	M26	1,5	6H	140	26	18	14,5	68.00 EUR	82.28 EUR
041535420274000	M27	2	6H	140	26	20	16	81.40 EUR	98.49 EUR
041535420275000	M27	1,5	6H	140	26	20	16	80.35 EUR	97.22 EUR
041535420277000	M27	1	6H	140	26	20	16	93.45 EUR	113.07 EUR
041535420284000	M28	2	6H	140	26	20	16	90.40 EUR	109.38 EUR
041535420285000	M28	1,5	6H	140	26	20	16	Ask for price	
041535420304000	M30	2	6H	150	28	22	18	95.85 EUR	115.98 EUR
041535420305000	M30	1,5	6H	150	28	22	18	84.45 EUR	102.18 EUR
041535420307000	M30	1	6H	150	28	22	18	98.95 EUR	119.73 EUR
041535420325000	M32	1,5	6H	150	28	22	18	103.05 EUR	124.69 EUR
041535420334000	M33	2	6H	160	30	25	20	116.40 EUR	140.84 EUR
041535420335000	M33	1,5	6H	160	30	25	20	115.45 EUR	139.69 EUR
041535420345000	M34	1,5	6H	170	30	28	22	Ask for price	
041535420355000	M35	1,5	6H	170	30	28	22	145.25 EUR	175.75 EUR
041535420363000	M36	3	6H	200	42	28	22	161.85 EUR	195.84 EUR
041535420364000	M36	2	6H	170	30	28	22	143.15 EUR	173.21 EUR
041535420365000	M36	1,5	6H	170	30	28	22	127.75 EUR	154.58 EUR
041535420405000	M40	1,5	6H	170	30	32	24	153.40 EUR	185.61 EUR
041535420423000	M42	3	6H	200	50	32	24	228.60 EUR	276.61 EUR
041535420424000	M42	2	6H	170	30	32	24	200.90 EUR	243.09 EUR
041535420425000	M42	1,5	6H	170	30	32	24	171.00 EUR	206.91 EUR
041535420453000	M45	3	6H	200	50	36	29	Ask for price	
041535420454000	M45	2	6H	180	32	36	29	241.10 EUR	291.73 EUR
041535420455000	M45	1,5	6H	180	32	36	29	187.50 EUR	226.88 EUR
041535420483000	M48	3	6H	225	50	36	29	297.70 EUR	360.22 EUR
041535420484000	M48	2	6H	190	32	36	29	288.40 EUR	348.96 EUR
041535420485000	M48	1,5	6H	190	32	36	29	225.55 EUR	272.92 EUR

ID	D1	P	Tolerance	l1	l2	d2	a	Price excl. VAT	Price incl. VAT
041535420505000	M50	1,5	6H	190	32	36	29	229.95 EUR	278.24 EUR
041535420525000	M52	1,5	6H	190	32	40	32	Ask for price	

Use

MACHINED MATERIAL	HOLE TYPE	CUTTING SPEED	LUBRICATION	USE
Aluminium alloys si content > 10%	through hole (thread length $L < 1,5 \times d1$)	14-20	Emulsion	Recommended use
Copper alloys (short chipping)	blind hole (thread length $< 1,5 \times d1$, pilot drilling depth $\geq L+d1$)	15-25	Cutting Oil/Emulsion	Recommended use
Copper alloys (short chipping)	through hole (thread length $L < 1,5 \times d1$)	15-25	Cutting Oil/Emulsion	Recommended use
Free cutting steels up to 800 N/mm ²	through hole (thread length $L < 1,5 \times d1$)	10-14	Cutting Oil/Emulsion	Possible use
Free cutting steels up to 800 N/mm ²	blind hole (thread length $< 1,5 \times d1$, pilot drilling depth $\geq L+d1$)	10-14	Cutting Oil/Emulsion	Possible use
Grey cast iron	blind hole (thread length $< 1,5 \times d1$, pilot drilling depth $\geq L+d1$)	8-12	Emulsion	Possible use
Grey cast iron	blind hole (thread length $L < 2,5 \times d1$)	8-12	Emulsion	Possible use
Grey cast iron	through hole (thread length $L > 1,5 \times d1$)	8-12	Emulsion	Possible use
Grey cast iron	blind hole (thread length $L < 1,5 \times d1$)	8-12	Emulsion	Possible use
Grey cast iron	through hole (thread length $L < 1,5 \times d1$)	8-12	Emulsion	Possible use
Grey cast iron	blind hole (thread length $L < 2 \times d1$)	8-12	Emulsion	Possible use
Structural steels up to 500 N/mm ²	blind hole (thread length $< 1,5 \times d1$, pilot drilling depth $\geq L+d1$)	5-8	Cutting Oil/Emulsion	Possible use
Structural steels up to 500 N/mm ²	through hole (thread length $L < 1,5 \times d1$)	5-8	Cutting Oil/Emulsion	Possible use

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