

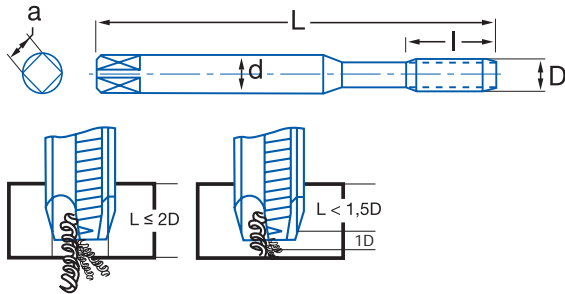
Ref. **3130**

**MACHO RECTO MÁQUINA MÉTRICA MATERIALES DUROS M. REFORZADO**

Reinforced Shank Hard Materials Metric Machine Straight Tap  
Taraud Droit Machine Metrique Matériaux Durs Queue Renforcée



PMX	TIALN	DIN 371	B 3,5-5h	Tol. 6H	GUN	$\alpha$ 2-4°		
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Material		Vc
Grupo	Sub.	TIALN
1	1.3	4-8
1	1.4	3-5
4		10-15
7	7.2	20-30

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TIALN	€
M3	0,50	56	11	3,50	2,70	3	15354	22,04
M4	0,70	63	13	4,50	3,40	3	15355	22,04
M5	0,80	70	16	6,00	4,90	3	15357	21,30
M6	1,00	80	19	6,00	4,90	3	15360	23,59
M8	1,25	90	22	8,00	6,20	3	15361	27,36
M10	1,50	100	24	10,00	8,00	3	15363	33,34

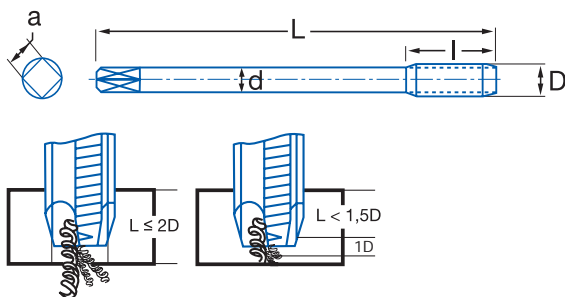
Ref. **3230**

**MACHO RECTO MÁQUINA MÉTRICA MATERIALES DUROS**

Hard Materials Metric Machine Straight Tap  
Taraud Droit Machine Metrique Matériaux Durs



PMX	TIALN	DIN 376	B 3,5-5h	Tol. 6H	GUN	$\alpha$ 2-4°		
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Material		Vc
Grupo	Sub.	TIALN
1	1.3	4-8
1	1.4	3-5
4		10-15
7	7.2	20-30

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TIALN	€
M12	1,75	110	29	9,00	7	3	16394	41,46
M14	2,00	110	30	11,00	9	3	16395	57,38
M16	2,00	110	32	12,00	9	3	16396	70,15
M18	2,50	125	34	14,00	11	3	13216	131,68
M20	2,50	140	34	16,00	12	3	13217	151,45

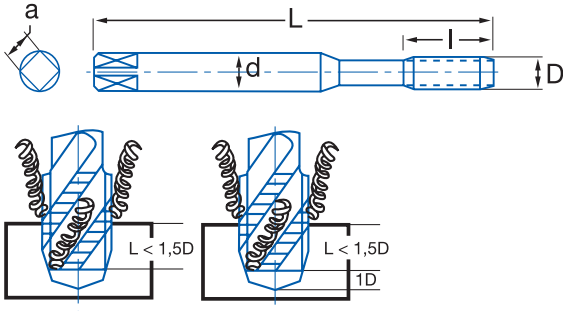
Ref. **3170**

**MACHO HELICOIDAL MÁQUINA MÉTRICA MATERIALES DUROS M. REFORZADO**

Reinforced Shank Hard Materials Metric Machine Spiral Tap  
Taraud Hélicoïdal Machine Métrique Matériaux Durs Queue Renforcée



PMX TIALN DIN 371 C 2-3h Tol. 6H 15°  $\alpha$  4° ± 1 60°



Material		Vc
Grupo	Sub.	TIALN
1	1.3	4-8
1	1.4	3-5
4		10-15
7	7.2	20-30

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIALN	€
M3	0,50	56	11	3,50	2,70	3	15366	24,17
M4	0,70	63	13	4,50	3,40	3	15367	24,17
M5	0,80	70	16	6,00	4,90	3	15369	24,17
M6	1,00	80	19	6,00	4,90	3	15372	25,43
M8	1,25	90	22	8,00	6,20	3	15373	30,44
M10	1,50	100	24	10,00	8,00	3	15375	37,82

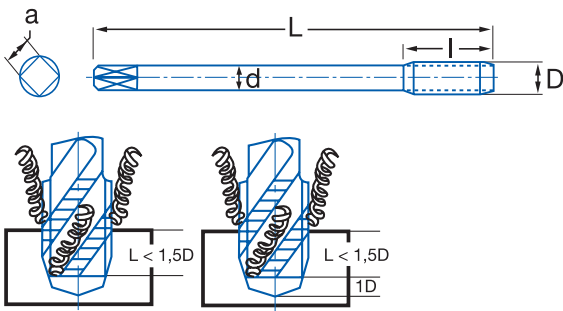
Ref. **3270**

**MACHO HELICOIDAL MÁQUINA MÉTRICA MATERIALES DUROS**

Hard Materials Metric Machine Spiral Tap  
Taraud Hélicoïdal Machine Métrique Matériaux Durs



PMX TIALSIN DIN 376 C 2-3h Tol. 6H 15°  $\alpha$  4° ± 1 60°



Material		Vc
Grupo	Sub.	TIALN
1	1.3	4-8
1	1.4	3-5
4		10-15
7	7.2	20-30

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIALN	€
M12	1,75	110	18	9,00	7,00	3	16399	49,85
M14	2,00	110	20	11,00	9,00	3	16400	65,41
M16	2,00	110	20	12,00	9,00	4	16401	82,62
M18	2,50	125	25	14,00	11,00	4	13218	113,21
M20	2,50	140	25	16,00	12,00	4	13219	121,52

Ref. **3143**

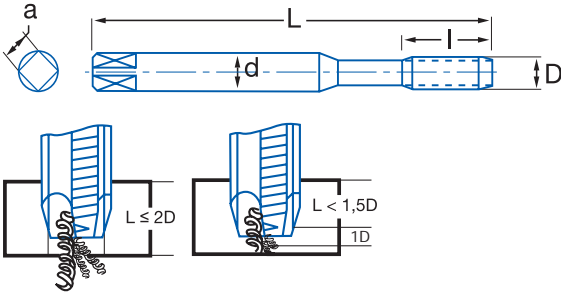
**MACHO RECTO MÁQUINA MÉTRICA MATERIALES ALEADOS M. REFORZADO**

Reinforced Shank Alloy Materials Metric Machine Straight Tap

Taraut Droit Machine Metrique Matériaux Alliages Queue Renforcée



HSSE V	DIN 371	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	HSSE-V
1	1.2	6-8
3	3.2	7-10
6	6.3	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSSE-V	€
M3	0,50	56	11	3,50	2,70	3	69532	12,56
M4	0,70	63	13	4,50	3,40	3	69534	12,84
M5	0,80	70	16	6,00	4,90	3	69535	12,84
M6	1,00	80	17	6,00	4,90	3	69537	14,12
M8	1,25	90	20	8,00	6,20	3	69538	15,84
M10	1,50	100	24	10,00	8,00	3	15672	18,24

Ref. **3243**

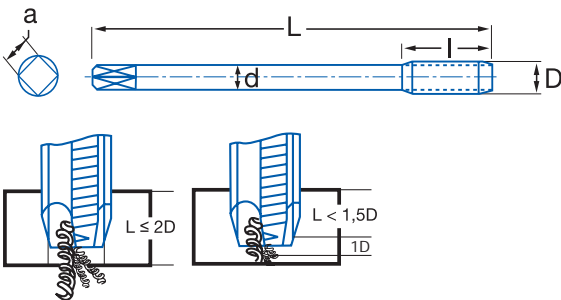
**MACHO RECTO MÁQUINA MÉTRICA MATERIALES ALEADOS**

Alloy Materials Metric Machine Straight Tap

Taraut Droit Machine Metrique Matériaux Alliages



HSSE V	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	HSSE-V
1	1.2	6-8
3	3.2	7-10
6	6.3	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSSE-V	€
M8	1,25	90	20	6,00	4,90	3	69876	16,55
M10	1,50	100	22	7,00	5,50	3	69877	20,35
M12	1,75	110	24	9,00	7,00	3	69879	25,06
M14	2,00	110	26	11,00	9,00	3	69880	31,35
M16	2,00	110	27	12,00	9,00	3	69882	36,87
M18	2,50	125	30	14,00	11,00	4	69883	52,25
M20	2,50	140	32	16,00	12,00	4	69885	56,43

Ref. **3153**

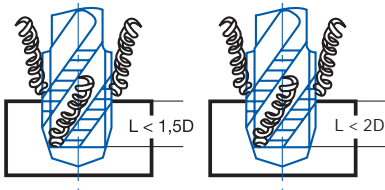
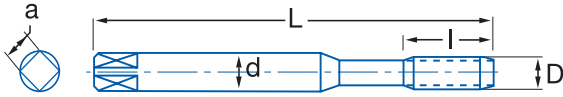
**MACHO HELICOIDAL MÁQUINA MÉTRICA MATERIALES ALEADOS M. REFORZADO**

Reinforced Shank Alloy Materials Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Matériaux Alliages Queue Renforcée



HSSE V	DIN 371	C 2-3h	40°	Tol. 6H	$\alpha$ 6° ± 1		
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Material		Vc
Grupo	Sub.	HSSE-V
1	1.2	6-8
3	3.2	7-10
6	6.3	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSSE-V	€
M3	0,50	56	5	3,50	2,70	3	69412	13,82
M4	0,70	63	7	4,50	3,40	3	69414	14,14
M5	0,80	70	8	6,00	4,90	3	69415	14,14
M6	1,00	80	10	6,00	4,90	3	69483	15,51
M8	1,25	90	13	8,00	6,20	3	69484	17,41
M10	1,50	100	15	10,00	8,00	3	69519	20,07

Ref. **3253**

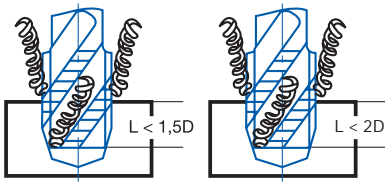
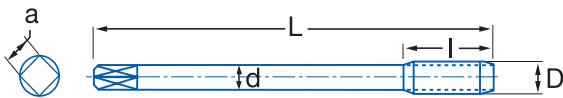
**MACHO HELICOIDAL MÁQUINA MÉTRICA MATERIALES ALEADOS**

Alloy Materials Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Matériaux Alliages



HSSE V	DIN 376	C 2-3h	40°	Tol. 6H	$\alpha$ 6° ± 1		
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Material		Vc
Grupo	Sub.	HSSE-V
1	1.2	6-8
3	3.2	7-10
6	6.3	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSSE-V	€
M8	1,25	90	13	6	4,90	3	69864	18,21
M10	1,50	100	15	7	5,50	3	69865	22,40
M12	1,75	110	18	9	7,00	3	69867	27,58
M14	2,00	110	20	11	9,00	4	69868	34,49
M16	2,00	110	20	12	9,00	4	69870	40,57
M18	2,50	125	25	14	11,00	4	69871	57,47
M20	2,50	140	25	16	12,00	4	69873	62,09

Ref. **3125**

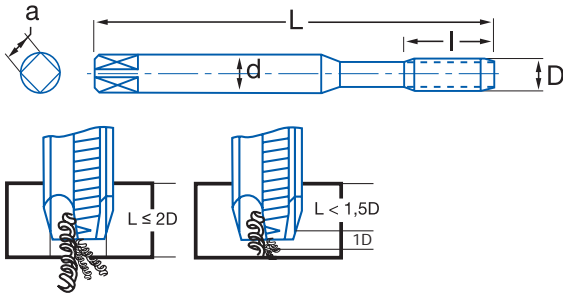
**MACHO RECTO MÁQUINA MÉTRICA INOX GRAN RENDIMIENTO M. REFORZADO**

Reinforced Shank High Performance Stainless Metric Machine Straight Tap

Taraut Droit Machine Metrique Inox Haut Rendement Queue Renforcée



PMX	TIALN	DIN 371	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		A.R.I.* * Alto Rendimiento Intensivo I.H.P.* * Intensive High Performance H.P.I.* * Haute Performance Intensif	
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Material		Vc *
Grupo	Sub.	TIALN
1	1.2	6-8
	2.1	8-14
2	2.2	6-10
	5.1	10-15
5	5.2	12-20

\* Possible Uso en Seco: Vc -50 %  
\* Possible Dry-Use: Vc -50%  
\* Emploi possible à sec: Vc -50 %

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TIALN	€
M3	0,50	56	11	3,50	2,70	3	28059	22,05
M4	0,70	63	13	4,50	3,40	3	28060	22,58
M5	0,80	70	16	6,00	4,90	3	28062	23,81
M6	1,00	80	17	6,00	4,90	3	28063	23,81
M8	1,25	90	20	8,00	6,20	3	28064	27,59
M10	1,50	100	24	10,00	8,00	3	28065	32,92

**Ref. 3125 + 1016 TIALSIN**



Cont. 10 pcs	N° Art. TIALSIN	€
Machos / Taps / Tarauds DIN 371: M4--M10	32669	158,36
Brocas / Twist Drills / Forets 1016 TIALSIN: 3,3-4,2-5,0-6,8-8,5		

**Ref. 3125 + 1020 HSSE**



Cont. 10 pcs	N° Art. 5% Co	€
Machos / Taps / Tarauds DIN 371: M4-M5-M6-M8-M10	32674	148,23
Brocas / Twist Drills / Forets 1020 HSSE: 3,3-4,2-5,0-6,8-8,5		

Ref. **3225**

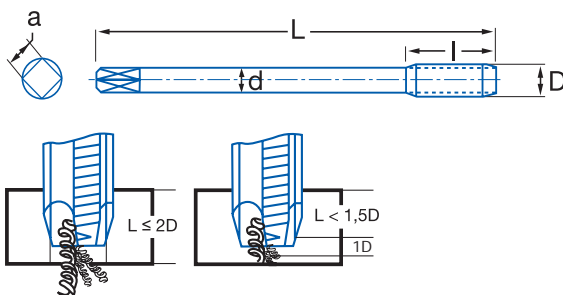
**MACHO RECTO MÁQUINA MÉTRICA INOX GRAN RENDIMIENTO**

High Performance Stainless Metric Machine Straight Tap

Taraut Droit Machine Metrique Inox Haut Rendement



PMX	TIALN	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		A.R.I.* * Alto Rendimiento Intensivo I.H.P.* * Intensive High Performance H.P.I.* * Haute Performance Intensif	
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Material		Vc *
Grupo	Sub.	TIALN
1	1.2	6-8
	2.1	8-14
2	2.2	6-10
	5.1	10-15
5	5.2	12-20

\* Possible Uso en Seco: Vc -50 %  
\* Possible Dry-Use: Vc -50%  
\* Emploi possible à sec: Vc -50 %

Vc= m/min.

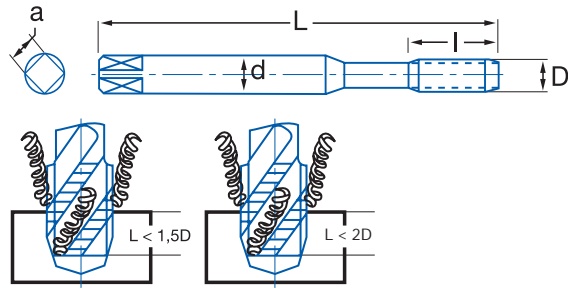
M	P	L mm	l mm	d mm	a mm	Z	N° Art. TIALN	€
M12	1,75	110	24	9,00	7,00	3	28073	41,93

Ref. **3165**

**MACHO HELICOIDAL MÁQUINA MÉTRICA INOX GRAN RENDIMIENTO M. REFORZADO**  
 Reinforced Shank High Performance Stainless Metric Machine Spiral Tap  
 Taraud Hélicoïdal Machine Métrique Inox Haut Rendement Queue Renforcée



PMX	TIALN	DIN 371	C 2-3h	35°	Tol. 6H	$\alpha$ 12° ± 2		A.R.I.* * Alto Rendimiento Intensivo I.H.P.* * Intensive High Performance H.P.I.* * Haute Performance Intensif	
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Material		Vc *
Grupo	Sub.	TIALN
1	1.2	6-8
	2.1	8-14
2	2.2	6-10
	5.1	10-15
5	5.2	12-20

\* Posible Uso en Seco: Vc -50 %  
 \* Possible Dry-Use: Vc -50%  
 \* Emploi possible à sec: Vc -50 %

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIALN	€
M3	0,50	56	11	3,50	2,70	3	28066	25,28
M4	0,70	63	13	4,50	3,40	3	28068	25,28
M5	0,80	70	16	6,00	4,90	3	28069	25,90
M6	1,00	80	17	6,00	4,90	3	28070	26,99
M8	1,25	90	20	8,00	6,20	3	28071	31,38
M10	1,50	100	24	10,00	8,00	3	28072	37,06

**Ref. 3165 + 1016 TIALSIN**



Cont. 10 pcs	Nº Art. TIALSIN	€
Machos / Taps / Tarauds DIN 371: M4-M5-M6-M8-M10	32675	174,26
Brocas / Twist Drills / Forets 1016 TIALSIN: 3,3-4,2-5,0-6,8-8,5		

**Ref. 3165 + 1020 HSSE**



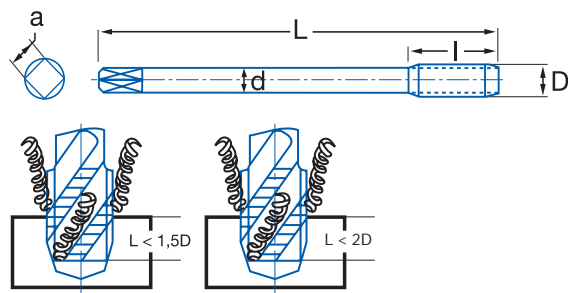
Cont. 10 pcs	Nº Art. 5% Co	€
Machos / Taps / Tarauds DIN 371: M4-M5-M6-M8-M10	32670	164,13
Brocas / Twist Drills / Forets 1020 HSSE: 3,3-4,2-5,0-6,8-8,5		

Ref. **3265**

**MACHO HELICOIDAL MÁQUINA MÉTRICA INOX GRAN RENDIMIENTO**  
 High Performance Stainless Metric Machine Spiral Tap  
 Taraud Hélicoïdal Machine Métrique Inox Haut Rendement



PMX	TIALN	DIN 376	C 2-3h	35°	Tol. 6H	$\alpha$ 12° ± 2		A.R.I.* * Alto Rendimiento Intensivo I.H.P.* * Intensive High Performance H.P.I.* * Haute Performance Intensif	
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Material		Vc *
Grupo	Sub.	TIALN
1	1.2	6-8
	2.1	8-14
2	2.2	6-10
	5.1	10-15
5	5.2	12-20

\* Posible Uso en Seco: Vc -50 %  
 \* Possible Dry-Use: Vc -50%  
 \* Emploi possible à sec: Vc -50 %

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIALN	€
M12	1,75	110	24	9,00	7,00	3	28074	50,28

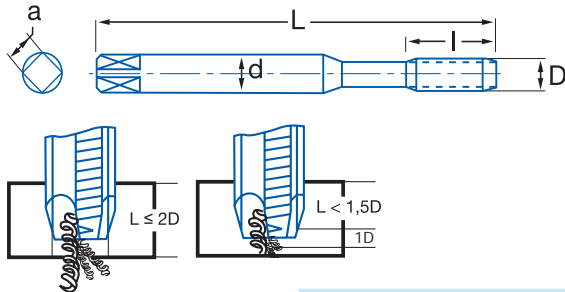
Ref. **3149**

## MACHO RECTO MÁQUINA MÉTRICA INOX MANGO REFORZADO

Reinforced Shank Stainless Metric Machine Straight Tap  
Taraud Droit Machine Metrique Inox Queue Renforcée



HSSE 5% Co	TIN	DIN 371	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	TIN
2	2.1	8-12
	2.2	5-8
5	5.1	8-12
	5.2	12-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIN	€
M3	0,50	56	11	3,50	2,70	3	21834	16,45
M4	0,70	63	13	4,50	3,40	3	21835	16,66
M5	0,80	70	16	6,00	4,90	3	21836	17,26
M6	1,00	80	17	6,00	4,90	3	21837	17,38
M8	1,25	90	20	8,00	6,20	3	21838	20,25
M10	1,50	100	24	10,00	8,00	3	21839	23,55

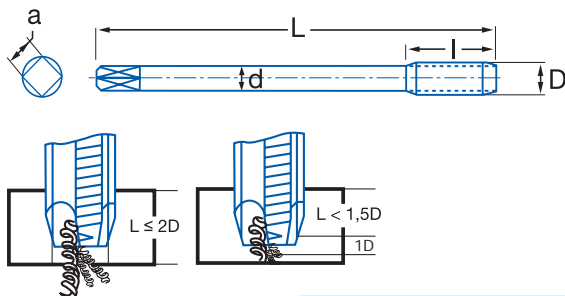
Ref. **3249**

## MACHO RECTO MÁQUINA MÉTRICA INOX

Stainless Metric Machine Straight Tap  
Taraud Droit Machine Metrique Inox



HSSE 5% Co	TIN	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	TIN
2	2.1	8-12
	2.2	5-8
5	5.1	8-12
	5.2	12-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIN	€
M8	1,25	90	20	6	4,90	3	21840	22,29
M10	1,50	100	22	7	5,50	3	21841	25,48
M12	1,75	110	24	9	7,00	3	21843	30,10
M14	2,00	110	26	11	9,00	3	21844	39,25
M16	2,00	110	27	12	9,00	3	21846	43,28
M18	2,50	125	30	14	11,00	4	21847	67,42
M20	2,50	140	32	16	12,00	4	21848	70,18
M22	2,50	140	34	18	14,50	4	16268	90,12
M24	3,00	160	38	18	14,50	4	16269	76,07

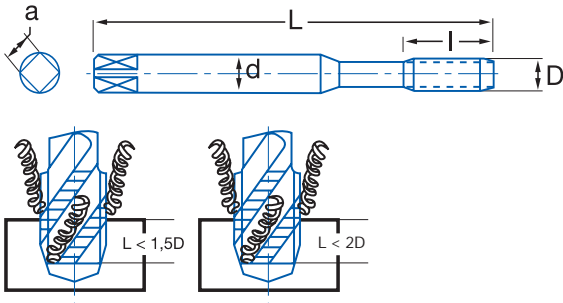
Ref. **3159**

## MACHO HELICOIDAL MÁQUINA MÉTRICA INOX M. REFORZADO

Reinforced Shank Stainless Metric Machine Spiral Tap  
Taraud Hélicoïdal Machine Métrique Inox Queue Renforcée



HSSE 5% Co	TIN	DIN 371	C 2-3h	35°	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	TIN
2	2.1	8-12
	2.2	5-8
5	5.1	8-12
	5.2	12-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TIN	€
M3	0,50	56	5	3,50	2,70	3	21849	17,88
M4	0,70	63	7	4,50	3,40	3	21850	17,88
M5	0,80	70	8	6,00	4,90	3	21851	18,30
M6	1,00	80	10	6,00	4,90	3	21852	19,11
M8	1,25	90	13	8,00	6,20	3	21853	22,10
M10	1,50	100	15	10,00	8,00	3	21854	25,99

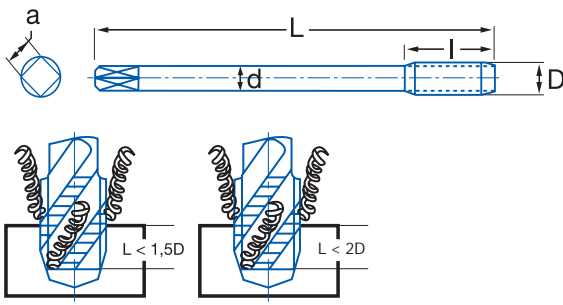
Ref. **3259**

## MACHO RECTO MÁQUINA MÉTRICA INOX

Stainless Metric Machine Straight Tap  
Taraud Droit Machine Métrique Inox



HSSE 5% Co	TIN	DIN 376	C 2-3h	35°	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	TIN
2	2.1	8-12
	2.2	5-8
5	5.1	8-12
	5.2	12-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TIN	€
M8	1,25	90	13	6,00	4,90	3	21855	23,43
M10	1,50	100	15	7,00	5,50	3	21856	29,31
M12	1,75	110	18	9,00	7,00	3	21857	34,13
M14	2,00	110	20	11,00	9,00	4	21858	42,65
M16	2,00	110	20	12,00	9,00	4	21859	46,87
M18	2,50	125	25	14,00	11,00	4	21860	67,64
M20	2,50	140	25	16,00	12,00	4	21861	69,90
M22	2,50	140	25	18,00	14,50	4	16270	92,34
M24	3,00	160	30	18,00	14,50	4	16271	87,87

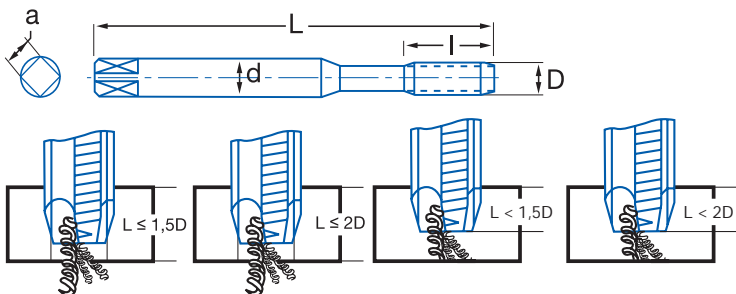
Ref. **3176**

**MACHO RECTO MÁQUINA MÉTRICA FUNDICIÓN M. REFORZADO**

Reinforced Shank Cast Iron Metric Machine Straight Tap  
Taraud Droit Machine Metrique Fonte Queue Renforcée



HSSE 5% Co	TICN	DIN 371	C 2-3h		Tol. 6HX	$\alpha$ 1-3°		
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Material		Vc
Grupo <b>3</b>	Sub. 3.1	TICN 15-20
	3.2	10-15

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TICN	€
M3	0,50	56	10	3,50	2,70	3	19680	14,43
M4	0,70	63	12	4,50	3,40	3	19681	14,70
M5	0,80	70	14	6,00	4,90	3	19682	14,70
M6	1,00	80	16	6,00	4,90	4	19683	16,71
M8	1,25	90	18	8,00	6,20	4	19685	18,77
M10	1,50	100	20	10,00	8,00	4	19686	21,45

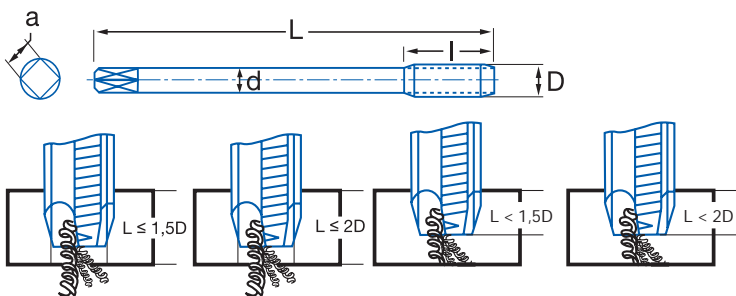
Ref. **3276**

**MACHO RECTO MÁQUINA MÉTRICA FUNDICIÓN**

Cast Iron Metric Machine Straight Tap  
Taraud Droit Machine Metrique Fonte



HSSE 5% Co	TICN	DIN 376	C 2-3h		Tol. 6HX	$\alpha$ 1-3°		
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Material		Vc
Grupo <b>3</b>	Sub. 3.1	TICN 15-20
	3.2	10-15

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. TICN	€
M6	1,00	80	16	4,50	3,40	4	19687	17,43
M8	1,25	90	18	6,00	4,90	4	19688	19,57
M10	1,50	100	20	7,00	5,50	4	19690	22,46
M12	1,75	110	22	9,00	7,00	4	19691	26,72
M14	2,00	110	25	11,00	9,00	4	19694	43,92
M16	2,00	110	28	12,00	9,00	4	19696	51,68
M18	2,50	125	32	14,00	11,00	4	19697	74,35
M20	2,50	140	32	16,00	12,00	4	19698	74,63

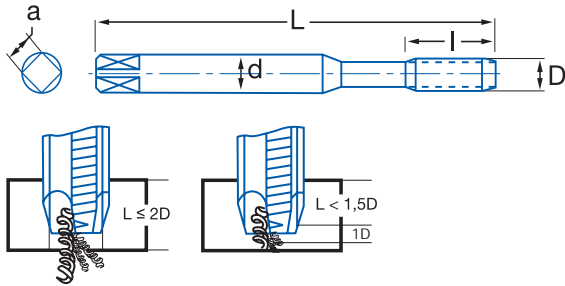
Ref. **3172**

**MACHO RECTO MÁQUINA MÉTRICA ALUMINIO M. REFORZADO**

Reinforced Shank Aluminium Metric Machine Straight Tap  
Taraud Droit Machine Metrique Aluminium Queue Renforcée



HSSE 5%Co	DIN 371	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	5% Co
6	6.1	15-35

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	3,50	2,70	3	14557	17,27
M4	0,70	63	13	4,50	3,40	3	14574	17,35
M5	0,80	70	16	6,00	4,90	3	14745	17,27
M6	1,00	80	19	6,00	4,90	3	14725	18,21
M8	1,25	90	22	8,00	6,20	3	14746	21,81
M10	1,50	100	24	10,00	8,00	3	14737	25,67

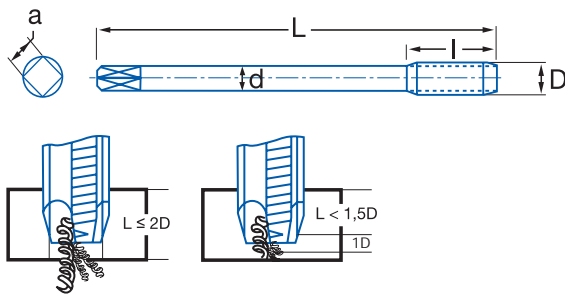
Ref. **3272**

**MACHO RECTO MÁQUINA MÉTRICA ALUMINIO**

Aluminium Metric Machine Straight Tap  
Taraud Droit Machine Metrique Aluminium



HSSE 5%Co	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	5% Co
6	6.1	15-35

Vc= m/min.

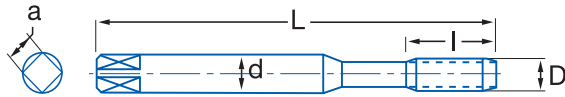
M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M12	1,75	110	29	9,00	7,00	3	14751	32,04
M14	2,00	110	30	11,00	9,00	3	14761	58,04
M16	2,00	110	32	12,00	9,00	3	14764	63,29
M18	2,50	125	30	14,00	11,00	4	14767	81,90
M20	2,50	140	32	16,00	12,00	4	14773	87,13

Ref. **3175**

## MACHO HELICOIDAL MÁQUINA MÉTRICA ALUMINIO M. REFORZADO

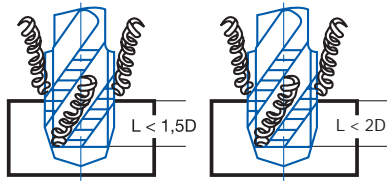
Reinforced Shank Aluminium Metric Machine Spiral Tap

Taraut Hélicoïdal Machine Metrique Aluminium Queue Renforcée



Material		Vc
Grupo	Sub.	5% Co
6	6.1	15-35

Vc= m/min.



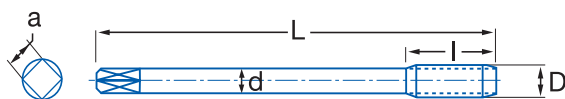
M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	3,50	2,70	2	14565	19,20
M4	0,70	63	13	4,50	3,40	2	14577	19,28
M5	0,80	70	16	6,00	4,90	2	14724	19,20
M6	1,00	80	19	6,00	4,90	2	14730	20,25
M8	1,25	90	22	8,00	6,20	2	14733	24,24
M10	1,50	100	24	10,00	8,00	2	14739	28,52

Ref. **3275**

## MACHO HELICOIDAL MÁQUINA MÉTRICA ALUMINIO

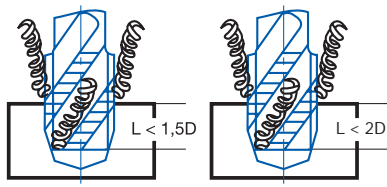
Aluminium Metric Machine Spiral Tap

Taraut Hélicoïdal Machine Metrique Aluminium



Material		Vc
Grupo	Sub.	5% Co
6	6.1	15-35

Vc= m/min.



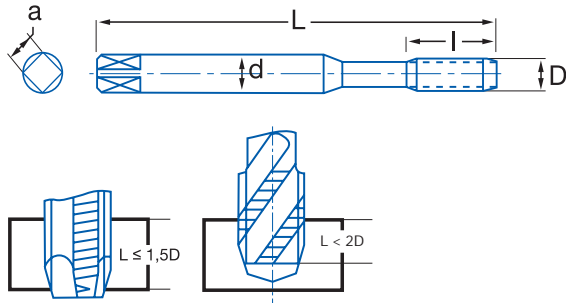
M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M12	1,75	110	29	9,00	7,00	2	14755	35,61
M14	2,00	110	30	11,00	9,00	3	14763	64,49
M16	2,00	110	32	12,00	9,00	3	14766	70,32
M18	2,50	125	30	14,00	11,00	3	14769	90,99
M20	2,50	140	32	16,00	12,00	3	14775	96,80

Ref. **3174**

**MACHO RECTO MÁQUINA MÉTRICA ALUMINIO M. REFORZADO DENTADO ALTERNO**  
 Interrupted Thread Reinforced Shank Aluminium Metric Machine Straight Tap  
 Taraud Droit Machine Metrique Aluminium Queue Renforcée Denture Alternée



HSSE 5%Co	DIN 371	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 17-20°	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	20-25
1	1.2	8-18
2	2.1	8-10
2	2.2	8-10
5	5.1	10-25
5	5.2	10-25
6	6.1	12-25
6	6.2	12-25
6	6.3	15-20
7	7.1	20-25

Vc= m/min.

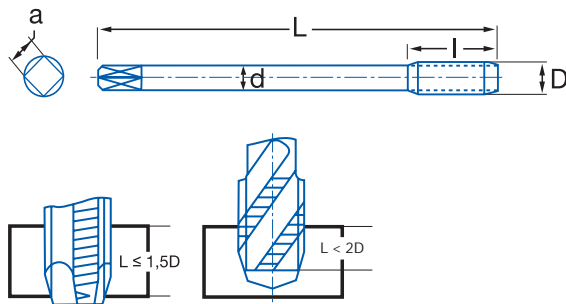
M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	3,50	2,70	3	69390	18,12
M4	0,70	63	13	4,50	3,40	3	69393	18,12
M5	0,80	70	16	6,00	4,90	3	69394	18,12
M6	1,00	80	19	6,00	4,90	3	69396	19,08
M8	1,25	90	22	8,00	6,20	3	69397	22,82
M10	1,50	100	24	10,00	8,00	3	69399	26,88

Ref. **3274**

**MACHO RECTO MÁQUINA MÉTRICA ALUMINIO DENTADO ALTERNO**  
 Interrupted Thread Aluminium Metric Machine Straight Tap  
 Taraud Droit Machine Metrique Aluminium Denture Alternée



HSSE 5%Co	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 17-20°	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	20-25
1	1.2	8-18
2	2.1	8-10
2	2.2	8-10
5	5.1	10-25
5	5.2	10-25
6	6.1	12-25
6	6.2	12-25
6	6.3	15-20
7	7.1	20-25

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M5	0,80	70	16	3,50	2,70	3	69853	18,12
M8	1,25	90	22	6,00	4,90	3	69856	22,82
M10	1,50	100	24	7,00	5,50	3	69858	26,88
M12	1,75	110	29	9,00	7,00	3	69859	33,56
M14	2,00	110	30	11,00	9,00	3	69861	60,80
M16	2,00	110	32	12,00	9,00	3	69862	61,18

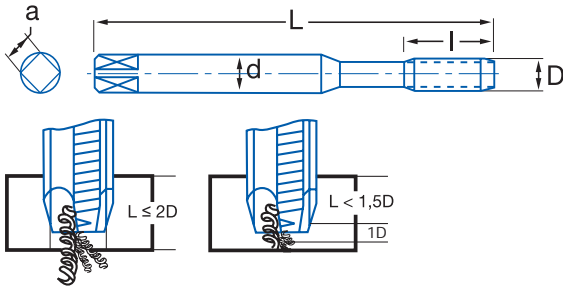
Ref. **3120**

**MACHO RECTO MÁQUINA MÉTRICA MULTIFUNCIÓN M. REFORZADO**

Reinforced Shank Multipurpose Metric Machine Straight Tap  
Taraud Droit Machine Metrique Multifonction Queue Renforcée



HSSE V
TIN
DIN 371
B 3,5-5h
GUN
Tol. 6H
 $\alpha$  10 - 12°



Material		Vc
Grupo	Sub.	TIN
1	1.1	10-12
1	1.2	4-6
2	2.1	6-10
	2.2	4-7
3	3.1	8-12
	3.2	7-10
5	5.1	8-12
	5.2	12-20
6	6.2	12-20
	6.3	12-20
7	7.1	10-15

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIN	€
M3	0,50	56	11	3,50	2,70	3	28046	22,57
M4	0,70	63	13	4,50	3,40	3	28047	22,86
M5	0,80	70	16	6,00	4,90	3	28048	23,77
M6	1,00	80	17	6,00	4,90	3	28049	23,86
M8	1,25	90	20	8,00	6,20	3	28050	27,62
M10	1,50	100	24	10,00	8,00	3	28051	32,31

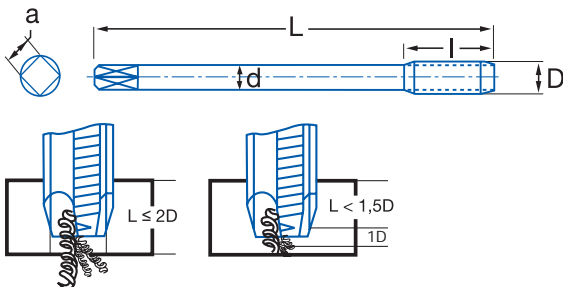
Ref. **3220**

**MACHO RECTO MÁQUINA MÉTRICA MULTIFUNCIÓN**

Multipurpose Metric Machine Straight Tap  
Taraud Droit Machine Metrique Multifonction



HSSE V
TIN
DIN 376
B 3,5-5h
GUN
Tol. 6H
 $\alpha$  10 - 12°



Material		Vc
Grupo	Sub.	TIN
1	1.1	10-12
1	1.2	4-6
2	2.1	6-10
	2.2	4-7
3	3.1	8-12
	3.2	7-10
5	5.1	8-12
	5.2	12-20
6	6.2	12-20
	6.3	12-20
7	7.1	10-15

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIN	€
M12	1,75	110	24	9,00	7,00	3	28075	41,05
M14	2,00	110	26	11,00	9,00	3	28077	53,58
M16	2,00	110	27	12,00	9,00	3	28079	59,16
M18	2,50	125	30	14,00	11,00	4	28081	84,82
M20	2,50	140	32	16,00	12,00	4	28083	87,29

Ref. **3160**

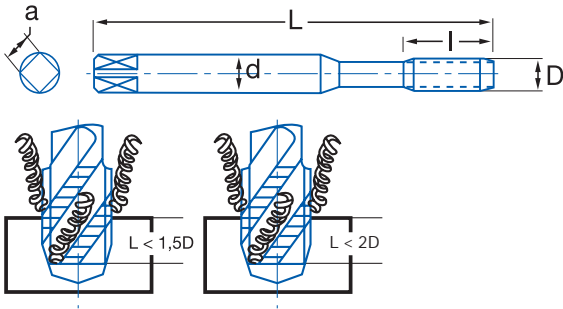
**MACHO HELICOIDAL MÁQUINA MÉTRICA MULTIFUNCIÓN M. REFORZADO**

Reinforced Shank Multipurpose Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Multifonction Queue Renforcée



HSSE V
TIN
DIN 371
C 2-3h
35°
Tol. 6H
 $\alpha$  6° ± 2



Material		Vc
Grupo	Sub.	TIN
1	1.1	10-12
1	1.2	4-6
2	2.1	6-10
	2.2	4-7
3	3.1	8-12
	3.2	7-10
5	5.1	8-12
	5.2	12-20
6	6.2	12-20
	6.3	12-20
7	7.1	10-15

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIN	€
M3	0,50	56	11	3,50	2,70	3	28052	24,45
M4	0,70	63	13	4,50	3,40	3	28053	24,45
M5	0,80	70	16	6,00	4,90	3	28054	25,05
M6	1,00	80	17	6,00	4,90	3	28055	26,15
M8	1,25	90	20	8,00	6,20	3	28056	30,32
M10	1,50	100	24	10,00	8,00	3	28057	35,69

Ref. **3260**

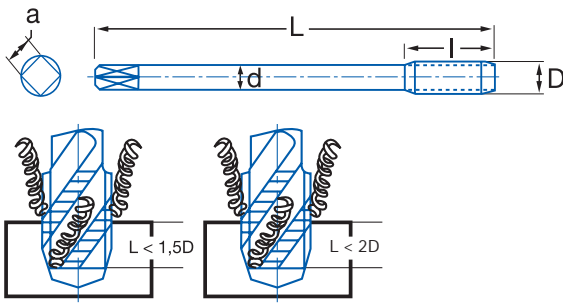
**MACHO HELICOIDAL MÁQUINA MÉTRICA MULTIFUNCIÓN**

Multipurpose Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Multifonction



HSSE V
TIN
DIN 376
C 2-3h
35°
Tol. 6H
 $\alpha$  6° ± 2



Material		Vc
Grupo	Sub.	TIN
1	1.1	10-12
1	1.2	4-6
2	2.1	6-10
	2.2	4-7
3	3.1	8-12
	3.2	7-10
5	5.1	8-12
	5.2	12-20
6	6.2	12-20
	6.3	12-20
7	7.1	10-15

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. TIN	€
M12	1,75	110	24	9,00	7,00	3	28076	46,62
M14	2,00	110	26	11,00	9,00	3	28078	58,25
M16	2,00	110	27	12,00	9,00	3	28080	64,02
M18	2,50	125	30	14,00	11,00	4	28082	92,24
M20	2,50	140	32	16,00	12,00	4	28084	95,23

Ref. **3110**

## MACHO RECTO MÁQUINA MÉTRICA MANGO REFORZADO

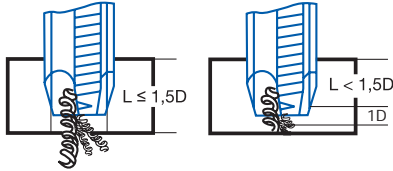
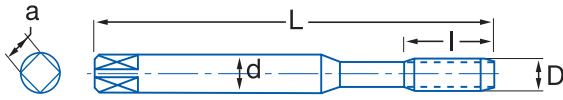
Reinforced Shank Metric Machine Straight Tap  
Taraud Droit Machine Métrique Queue Renforcée



HSSE 5%Co	DIN 371	C 2-3h	Tol. 6H	$\alpha$ $10^\circ \pm 2$	$60^\circ$
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Material		Vc
Grupo	Sub.	5%Co
3	3.1	15-20
5	5.1	5-8
6	6.3	12-15

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M2	0,40	45	9	2,80	2,10	3	62945	14,00
M2,5	0,45	50	9	2,80	2,10	3	77131	14,00
M3	0,50	56	11	3,50	2,70	3	62948	8,36
M3,5	0,60	56	13	4,00	3,00	3	62951	12,56
M4	0,70	63	13	4,50	3,40	3	62954	8,50
M4,5	0,75	70	16	6,00	4,90	3	77138	17,60
M5	0,80	70	16	6,00	4,90	3	62957	8,50
M6	1,00	80	19	6,00	4,90	3	62960	9,71
M7	1,00	80	19	7,00	5,50	3	62963	14,20
M8	1,25	90	22	8,00	6,20	3	62969	10,92
M10	1,50	100	24	10,00	8,00	3	62984	12,42

Ref. **3110**



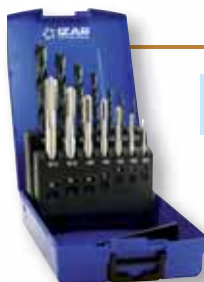
Cont. 7 pcs

N° Art.  
5% Co €

Machos / Taps / Tarauds  
DIN 371: M3-M4-M5-M6-  
M8-M10 + DIN 376: M12

43351 83,82

Ref. **3110 + 1010 HSS**



Cont. 14 pcs

N° Art.  
HSS €

Machos / Taps / Tarauds  
DIN 371: M3-M4-M5-M6-  
M8-M10 + DIN 376: M12

43357 95,69

Brocas / Twist Drills / Forets  
HSS: 2,5-3,3-4,2-5,0-6,8-  
8,5-10,2

Ref. **3110 + 1016 HSSE**



Cont. 14 pcs

N° Art.  
5% Co €

Machos / Taps / Tarauds  
DIN 371: M3-M4-M5-M6-  
M8-M10 + DIN 376: M12

16198 103,58

Brocas / Twist Drills / Forets  
HSSE: 2,5-3,3-4,2-5,0-6,8-  
8,5-10,2

Ref. **3210**

## MACHO RECTO MÁQUINA MÉTRICA

Metric Machine Straight Tap

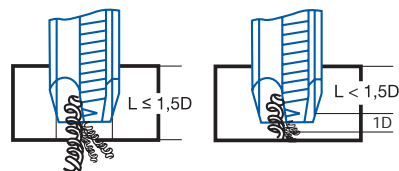
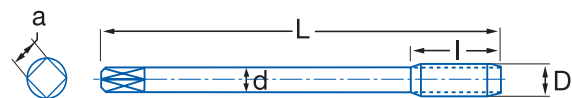
Taraud Droit Machine Métrique



HSSE 5%Co	M	DIN 376	C 2-3h	Tol. 6H	$\alpha$ $10^\circ \pm 2$	$60^\circ$
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Material		Vc
Grupo	Sub.	5%Co
3	3.1	15-20
5	5.1	5-8
6	6.3	12-15

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	2,20		3	69993	8,35
M4	0,70	63	13	2,80	2,10	3	69850	8,48
M5	0,80	70	16	3,50	2,70	3	69994	8,48
M6	1,00	80	19	4,50	3,40	3	69996	9,66
M7	1,00	80	19	5,50	4,30	3	70144	14,17
M8	1,25	90	22	6,00	4,90	3	69997	10,87
M10	1,50	100	24	7,00	5,50	3	69999	12,37
M12	1,75	110	29	9,00	7,00	3	70117	14,76
M14	2,00	110	30	11,00	9,00	3	70119	24,97
M16	2,00	110	32	12,00	9,00	3	70120	29,37
M18	2,50	125	34	14,00	11,00	3	70122	42,22
M20	2,50	140	34	16,00	12,00	3	70123	44,97
M22	2,50	140	34	18,00	14,50	3	70146	54,44
M24	3,00	160	38	18,00	14,50	4	70147	65,18
M27	3,00	160	38	20,00	16,00	4	70149	81,37
M30	3,50	180	45	22,00	18,00	4	70150	104,19
M33	3,50	180	50	25,00	20,00	4	70152	125,24
M36	4,00	200	56	28,00	22,00	4	70153	160,11

Ref. **3210**

## MACHO RECTO MÁQUINA MÉTRICA FINA

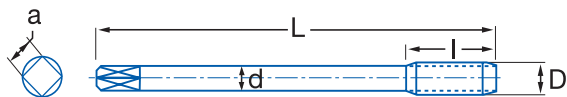
Metric Fine Machine Straight Tap

Taraud Droit Machine Métrique Pas Fin

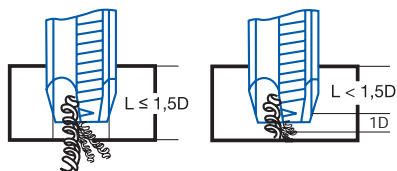


HSSE 5%Co	Métrica Fina	DIN 374	C 2-3h		Tol. 6H	$\alpha$ $10^\circ \pm 2$	
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Material		Vc
Grupo	Sub.	5%Co
3	3.1	15-20
5	5.1	5-8
6	6.3	12-15



Vc= m/min.

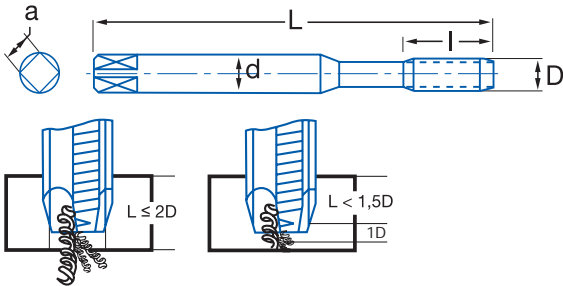


M	P	L mm	l mm	d mm	a mm	Z	Nº Art. 5% Co	€
MF4	0,50	63	10	2,80	2,10	3	70365	20,48
MF5	0,50	70	12	3,50	2,70	3	70366	21,07
MF6	0,50	80	14	4,50	3,40	3	74951	25,06
MF6	0,75	80	14	4,50	3,40	3	70368	16,61
MF8	0,50	80	13	6,00	4,90	3	70369	28,30
MF8	0,75	80	19	6,00	4,90	3	70305	20,25
MF8	1,00	90	22	6,00	4,90	3	70306	17,18
MF9	1,00	90	22	7,00	5,50	3	70371	25,06
MF10	0,75	90	20	7,00	5,50	3	70372	30,90
MF10	1,00	90	20	7,00	5,50	3	70308	19,05
MF10	1,25	100	24	7,00	5,50	3	70309	21,80
MF11	1,00	90	20	8,00	6,20	3	70374	31,66
MF12	1,00	100	22	9,00	7,00	3	70312	25,13
MF12	1,25	100	22	9,00	7,00	3	70314	25,45
MF12	1,50	100	22	9,00	7,00	3	70315	22,79
MF14	1,00	100	22	11,00	9,00	3	70317	38,59
MF14	1,25	100	22	11,00	9,00	3	70318	34,11
MF14	1,50	100	22	11,00	9,00	3	70320	26,86
MF15	1,00	100	22	12,00	9,00	3	70378	48,21
MF16	1,00	100	22	12,00	9,00	3	70380	48,00
MF16	1,50	100	22	12,00	9,00	3	70323	33,61
MF18	1,00	110	25	14,00	11,00	3	70326	53,76
MF18	1,50	110	25	14,00	11,00	3	70327	42,04
MF18	2,00	125	34	14,00	11,00	3	70329	54,25
MF20	1,00	125	25	16,00	12,00	3	70330	71,01
MF20	1,50	125	25	16,00	12,00	3	70332	47,58
MF20	2,00	140	34	16,00	12,00	3	70333	62,32
MF22	1,00	125	25	18,00	14,50	3	70381	79,60
MF22	1,50	125	25	18,00	14,50	3	75023	57,28
MF22	2,00	140	34	18,00	14,50	3	70335	79,60
MF24	1,00	140	28	18,00	14,50	4	70383	86,75
MF24	1,50	140	28	18,00	14,50	4	70336	70,37
MF24	2,00	140	28	18,00	14,50	4	70338	88,96
MF25	1,50	140	28	18,00	14,50	4	70384	103,69
MF26	1,50	140	28	18,00	14,50	4	70339	94,92
MF27	1,50	140	28	20,00	16,00	4	70386	103,85
MF27	2,00	140	28	20,00	16,00	4	70341	123,38
MF28	1,50	140	28	20,00	16,00	4	70342	103,69
MF30	1,00	150	28	22,00	18,00	4	70387	132,63
MF30	1,50	150	28	22,00	18,00	4	70344	108,07
MF30	2,00	150	28	22,00	18,00	4	70389	133,77
MF32	1,50	150	28	22,00	18,00	4	70345	129,40
MF33	1,50	160	30	25,00	20,00	4	70347	148,34
MF33	2,00	160	30	25,00	20,00	4	70348	252,48
MF35	1,50	170	30	28,00	22,00	4	70350	171,24
MF42	1,50	170	30	32,00	24,00	6	70390	242,35
MF45	1,50	180	32	36,00	29,00	6	70351	300,12
MF48	2,00	190	32	36,00	29,00	6	75037	461,62
MF50	1,50	190	32	36,00	29,00	6	70393	358,57

Ref. **3100**

## MACHO RECTO MÁQUINA MÉTRICA MANGO REFORZADO

Reinforced Shank Metric Machine Straight Tap  
Taraud Droit Machine Métrique Queue Renforcée



Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	Nº Art. 5% Co	€
M2	0,40	45	9	2,80	2,10	3	62771	14,91
M2,5	0,45	50	9	2,80	2,10	3	76724	14,91
M2,6	0,45	50	9	2,80	2,10	3	76725	14,91
M3	0,50	56	11	3,50	2,70	3	62774	8,47
M3,5	0,60	56	13	4,00	3,00	3	62777	13,40
M4	0,70	63	13	4,50	3,40	3	62780	8,93
M4,5	0,75	70	16	6,00	4,90	3	76728	20,29
M5	0,80	70	16	6,00	4,90	3	62783	8,93
M6	1,00	80	19	6,00	4,90	3	62789	9,82
M7	1,00	80	19	7,00	5,50	3	76733	15,54
M8	1,25	90	22	8,00	6,20	3	62795	10,99
M10	1,50	100	24	10,00	8,00	3	62807	13,52



Cont. 25 pcs	Nº Art. 5% Co	€
Machos / Taps / Tarauds DIN 371: M4-M5-M6-M8-M10 (5 pcs x M)	38998	260,95

### Ref. 3100



Cont. 7 pcs	Nº Art. 5% Co	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6-M8-M10 + DIN 376: M12	43348	86,57

### Ref. 3100 + 1010 HSS



Cont. 14 pcs	Nº Art. HSS	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6-M8-M10 + DIN 376: M12	43354	98,09
Brocas / Twist Drills / Forets HSS: 2,5-3,3-4,2-5,0-6,8-8,5-10,2		

### Ref. 3100 + 1016 HSSE



Cont. 14 pcs	Nº Art. 5% Co	€
Machos / Taps / Tarauds DIN 371: M3-M4-M5-M6-M8-M10 + DIN 376: M12	21801	105,76
Brocas / Twist Drills / Forets HSSE: 2,5-3,3-4,2-5,0-6,8-8,5-10,2		

Ref. **3101**

**MACHO RECTO MÁQUINA MÉTRICA CORTE IZQUIERDA M. REFORZADO**

Reinforced Shank Left Cutting Metric Machine Straight Tap

Taraud Droit Machine Métrique Coupe à Gauche Queue Renforcée

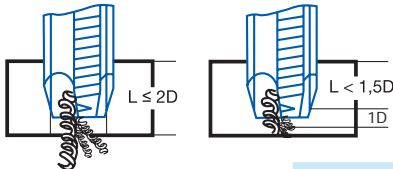
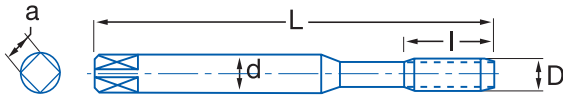
**NEW!**



HSSE 5%Co	DIN 371	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10 - 12°		
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M2	0,40	45	9	2,80	2,10	3	59469	29,82
M3	0,50	56	11	3,50	2,70	3	59470	16,94
M4	0,70	63	13	4,50	3,40	3	59471	17,86
M5	0,80	70	16	6,00	4,90	3	59472	17,86
M6	1,00	80	19	6,00	4,90	3	59473	19,64
M7	1,00	80	19	7,00	5,50	3	59474	31,08
M8	1,25	90	22	8,00	6,20	3	59475	21,98
M10	1,50	100	24	10,00	8,00	3	59476	27,04

Ref. **3105**

**MACHO RECTO MÁQUINA MÉTRICA MANGO REFORZADO**

Reinforced Shank Metric Machine Straight Tap

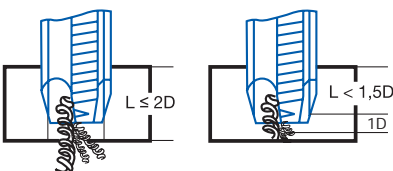
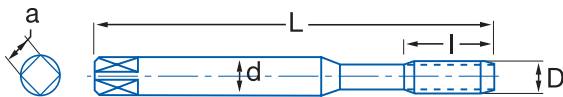
Taraud Droit Machine Métrique Queue Renforcée



HSSE 5%Co	DIN 371	B 3,5-5h	GUN	Tol. 6G	$\alpha$ 10 - 12°	
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	3,50	2,70	3	38319	11,84
M4	0,70	63	13	4,50	3,40	3	38320	11,84
M5	0,80	70	16	6,00	4,90	3	38321	11,84
M6	1,00	80	19	6,00	4,90	3	38322	11,94
M8	1,25	90	22	8,00	6,20	3	38323	14,33
M10	1,50	100	24	10,00	8,00	3	38324	16,84

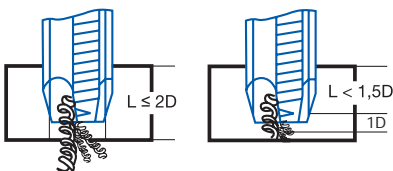
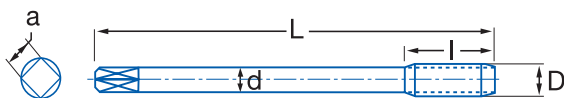
Ref. **3200**

## MACHO RECTO MÁQUINA MÉTRICA

Metric Machine Straight Tap  
Taraud Droit Machine Métrique



HSSE 5%Co	Métrica	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	2,20			70090	9,04
M4	0,70	63	13	2,80	2,10	3	70092	9,14
M5	0,80	70	16	3,50	2,70	3	70093	9,14
M6	1,00	80	19	4,50	3,40	3	70095	10,05
M7	1,00	80	19	5,50	4,30	3	70224	15,95
M8	1,25	90	22	6,00	4,90	3	70096	11,29
M10	1,50	100	24	7,00	4,50	3	70098	13,89
M11	1,50	100	24	8,00	6,20	3	70225	26,80
M12	1,75	110	29	9,00	7,00	3	70183	17,11
M14	2,00	110	30	11,00	9,00	3	70185	27,46
M16	2,00	110	32	12,00	9,00	3	70186	32,31
M18	2,50	125	34	14,00	11,00	3	75215	45,77
M20	2,50	140	34	16,00	12,00	3	70189	49,48
M22	2,50	140	34	18,00	14,50	3	70212	59,85
M24	3,00	160	38	18,00	14,50	4	70213	71,16
M27	3,00	160	38	20,00	16,00	4	70215	89,18
M30	3,50	180	45	22,00	18,00	4	70216	114,58
M33	3,50	180	50	25,00	20,00	4	70218	144,12
M36	4,00	200	56	28,00	22,00	4	70219	176,08



Cont. 25 pcs	N° Art. 5% Co	€
Machos / Taps / Tarauds DIN 376: M4-M5-M6-M8-M10 (5 pcs x M)	39000	267,55

Ref. **3200**

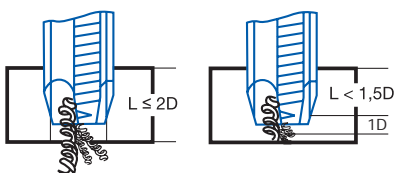
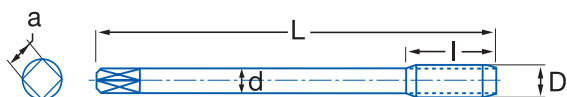
## MACHO RECTO MÁQUINA MÉTRICA FINA

Metric Fine Machine Straight Tap

Taraud Droit Machine Métrique Pas Fin



HSSE 5%Co	Métrica Fina	DIN 374	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
MF8	0,75	80	19	6	4,90	3	70267	23,28
MF8	1,00	90	22	6	4,90	3	70248	18,87
MF10	1,00	90	20	7	5,50	3	70249	21,03
MF10	1,25	100	24	7	5,50	3	70251	25,06
MF12	1,00	100	22	9	7,00	3	70252	27,69
MF12	1,25	100	22	9	7,00	3	70254	27,96
MF12	1,50	100	22	9	7,00	3	70255	24,97
MF14	1,00	100	22	11	9,00	3	70281	42,45
MF14	1,25	100	22	11	9,00	3	70257	37,21
MF14	1,50	100	22	11	9,00	3	70258	29,56
MF15	1,50	100	22	12	9,00	3	70282	47,12
MF16	1,50	100	22	12	9,00	3	70260	36,96
MF18	1,00	110	25	14	11,00	3	70284	59,13
MF18	1,50	110	25	14	11,00	3	70261	46,23
MF18	2,00	125	34	14	11,00	3	70285	59,68
MF20	1,00	125	25	16	12,00	4	70287	78,05
MF20	1,50	125	25	16	12,00	4	70263	52,28
MF20	2,00	140	34	16	12,00	4	70288	68,56
MF22	1,50	125	25	18	14,50	4	75216	62,99
MF22	2,00	140	34	18	14,50	4	70290	99,82
MF24	1,50	140	28	18	14,50	4	70264	77,43
MF24	2,00	140	28	18	14,50	4	70291	97,88
MF26	1,50	140	28	18	14,50	4	70293	99,51
MF27	2,00	140	28	20	16,00	4	70294	135,71
MF28	1,50	140	28	20	16,00	4	70296	113,81
MF30	1,50	150	28	22	18,00	4	70266	118,87
MF32	1,50	150	28	22	18,00	4	70297	142,26
MF33	1,50	160	30	25	20,00	4	70299	162,65
MF33	2,00	160	30	25	20,00	4	70300	277,65
MF35	1,50	170	30	28	22,00	4	70302	188,42
MF45	1,50	180	32	36	29,00	6	70303	330,12

Ref. **3201**

**MACHO RECTO MÁQUINA MÉTRICA CORTE IZQUIERDA**

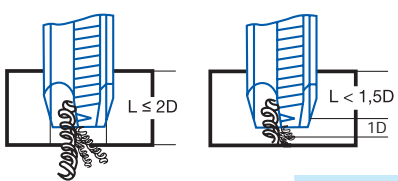
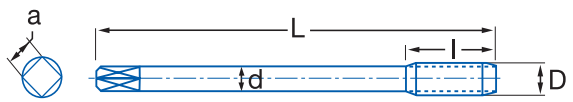
Left Cutting Metric Machine Straight Tap

Taraud Droit Machine Métrique Coupe à Gauche



HSSE 5%Co	Métrica	DIN 376	B 3,5-5h	GUN	Tol. 6H	$\alpha$ 10-12°		
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	2,20			59840	18,08
M4	0,70	63	13	2,80	2,10	3	20077	18,28
M5	0,80	70	16	3,50	2,70	3	20078	18,28
M6	1,00	80	19	4,50	3,40	3	20079	20,10
M7	1,00	80	19	5,50	4,30	3	59843	31,90
M8	1,25	90	22	6,00	4,90	3	10767	22,58
M10	1,50	100	24	7,00	5,50	3	59844	27,78
M11	1,50	100	24	8,00	6,20	3	59845	53,60
M12	1,75	110	29	9,00	7,00	3	29501	34,22
M14	2,00	110	30	11,00	9,00	3	59846	54,92
M16	2,00	110	32	12,00	9,00	3	59847	64,62

Vc= m/min.

Ref. **3205**

**MACHO RECTO MÁQUINA MÉTRICA TOLERANCIA 6G**

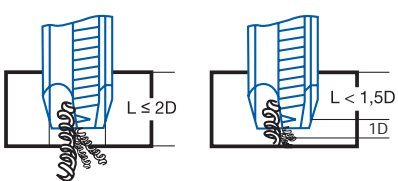
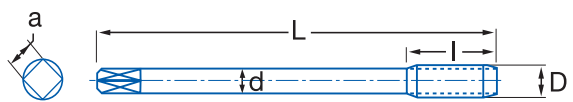
6G Tolerance Metric Machine Straight Tap

Taraud Droit Machine Métrique Tolérance 6G



HSSE 5%Co	DIN 376	B 3,5-5h	Tol. 6G	GUN	$\alpha$ 10-12°	
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M12	1,75	110	29	9,00	7,00	3	38325	21,05
M14	2,00	110	30	11,00	9,00	3	38326	26,40
M16	2,00	110	32	12,00	9,00	3	38327	31,94
M18	2,50	125	34	14,00	11,00	3	38328	43,86
M20	2,50	140	34	16,00	12,00	3	38329	45,85

Vc= m/min.

Ref. **3150**

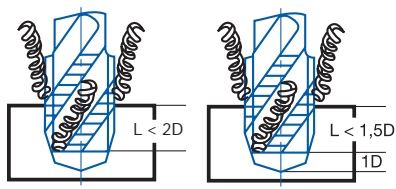
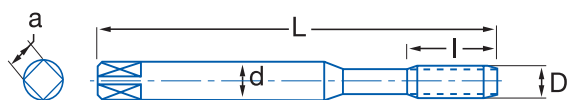
## MACHO HELICOIDAL MÁQUINA MÉTRICA M. REFORZADO

Reinforced Shank Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Queue Renforcée



HSSE 5%Co	DIN 371	C 2-3h	35°	Tol. 6H	$\alpha$ 10° ± 2	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	3,50	2,70	3	63050	11,14
M3,5	0,60	56	6	4,00	3,00	3	63053	16,40
M4	0,70	63	7	4,50	3,40	3	63056	11,14
M5	0,80	70	8	6,00	4,90	3	63059	10,64
M6	1,00	80	10	6,00	4,90	3	63062	11,69
M7	1,00	80	10	7,00	5,50	3	63065	18,20
M8	1,25	90	13	8,00	6,20	3	63071	13,35
M10	1,50	100	15	10,00	8,00	3	63083	15,84



Cont. 25 pcs

N° Art.  
5% Co

€

Machos / Taps / Tarauds

DIN 371: M4-M5-M6-M8-M10 38999 313,30  
(5 pcs x M)

Ref. 3150

Ref. 3150 + 1010 HSS

Ref. 3150 + 1016 HSSE



Cont. 7 pcs

N° Art.

€

Machos /  
Taps / Tarauds

DIN 371: M3-M4-M5-  
M6-M8-M10 43353 98,42  
+ DIN 376: M12



Cont. 14 pcs

N° Art.  
HSS

€

Machos /  
Taps / Tarauds

DIN 371: M3-M4-M5-  
M6-M8-M10 43359 109,94  
+ DIN 376: M12

Brocas /

Twist Drills / Forets  
HSS: 2,5-3,3-4,2-5,0-6,8-  
8,5-10,2



Cont. 14 pcs

N° Art.  
5% Co

€

Machos /  
Taps / Tarauds  
DIN 371: M3-M4-M5-  
M6-M8-M10 21802 117,58  
+ DIN 376: M12

Brocas /

Twist Drills / Forets  
HSSE: 2,5-3,3-4,2-5,0-  
6,8-8,5-10,2

Ref. **3161**

**MACHO HELICOIDAL MÁQUINA MÉTRICA CORTE IZQUIERDA M. REFORZADO**

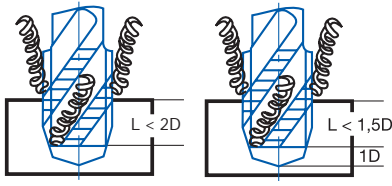
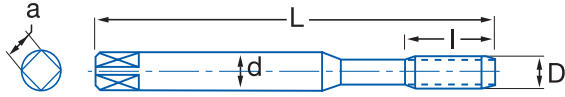
Reinforced Shank Left Cutting Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Coupe à Gauche Queue Renforcée



HSSE 5%Co	DIN 371	C 2-3h		Tol. 6H	$\alpha$ $10^\circ \pm 2$		
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20



Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	3,50	2,70	3	59477	22,28
M4	0,70	63	7	4,50	3,40	3	59478	22,28
M5	0,80	70	8	6,00	4,90	3	59479	21,28
M6	1,00	80	10	6,00	4,90	3	59480	23,38
M7	1,00	80	10	7,00	5,50	3	59481	36,40
M8	1,25	90	13	8,00	6,20	3	59482	26,70
M10	1,50	100	15	10,00	8,00	3	59483	31,68

Ref. **3155**

**MACHO HELICOIDAL MÁQUINA MÉTRICA M. REFORZADO TOLERANCIA 6G**

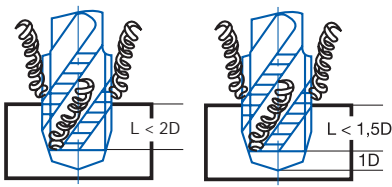
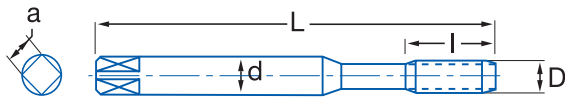
6G Tolerance Reinforced Shank Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Queue Renforcée Tolérance 6G



HSSE 5%Co	DIN 371	C 2-3h	Tol. 6G		$\alpha$ $10^\circ \pm 2$	
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20



Vc= m/min.

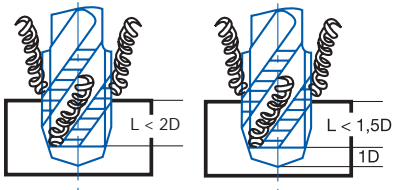
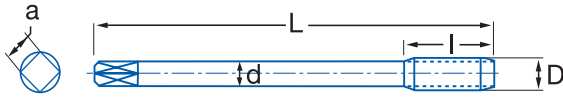
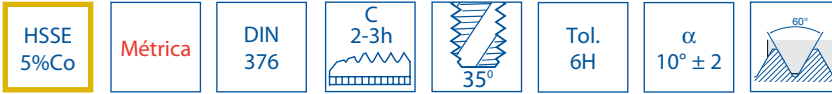
M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	3,50	2,70	3	38330	13,05
M4	0,70	63	7	4,50	3,40	3	38331	13,05
M5	0,80	70	8	6,00	4,90	3	38332	12,59
M6	1,00	80	10	6,00	4,90	3	38333	13,80
M8	1,25	90	13	8,00	6,20	3	38334	16,47
M10	1,50	100	15	10,00	8,00	3	38335	19,54

Ref. **3250**

## MACHO HELICOIDAL MÁQUINA MÉTRICA

Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique



Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	2,20		3	70063	10,87
M4	0,70	63	7	2,80	2,10	3	70065	10,78
M5	0,80	70	8	3,50	2,70	3	70066	10,32
M6	1,00	80	10	4,50	3,40	3	70068	11,32
M8	1,25	90	13	6,00	4,90	3	70069	13,27
M10	1,50	100	15	7,00	5,50	3	70071	15,77
M12	1,75	110	18	9,00	7,00	3	70161	20,29
M14	2,00	110	20	11,00	9,00	3	70162	31,85
M16	2,00	110	20	12,00	9,00	4	70164	38,48
M18	2,50	125	25	14,00	11,00	4	75057	51,81
M20	2,50	140	25	16,00	12,00	4	70167	55,14
M22	2,50	140	25	18,00	14,50	4	70206	68,04
M24	3,00	160	30	18,00	14,50	4	70207	81,44
M27	3,00	160	30	20,00	16,00	4	70209	101,73
M30	3,50	180	35	22,00	18,00	4	70210	130,30



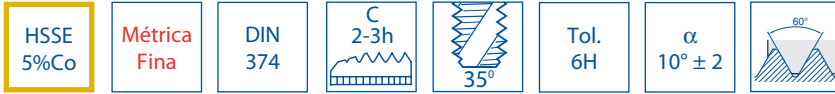
Cont. 25 pcs	N° Art. 5% Co	€
Machos / Taps / Tarauds DIN 376: M4-M5-M6-M8-M10 (5 pcs x M)	39001	307,30

Ref. **3250**

## MACHO HELICOIDAL MÁQUINA MÉTRICA FINA

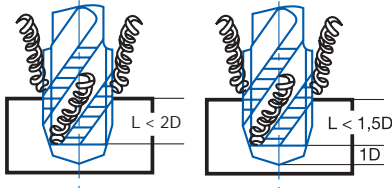
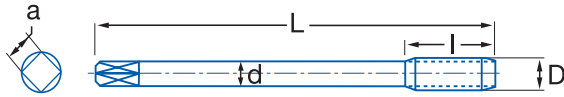
Metric Fine Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Pas Fin



Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	Nº Art. 5% Co	€
MF8	1,00	90	13	6	4,90	3	70228	22,37
MF10	1,00	90	12	7	5,50	3	70230	26,37
MF10	1,25	100	15	7	5,50	3	70231	28,70
MF12	1,00	100	14	9	7,00	3	70233	32,75
MF12	1,25	100	14	9	7,00	3	70234	31,34
MF12	1,50	100	14	9	7,00	3	70236	30,16
MF14	1,25	100	16	11	9,00	3	70237	46,30
MF14	1,50	100	16	11	9,00	3	70239	37,07
MF16	1,50	100	16	12	9,00	4	70240	45,58
MF18	1,50	110	20	14	11,00	4	70242	55,06
MF20	1,50	125	20	16	12,00	4	70243	62,89
MF22	1,50	125	20	18	14,50	4	75192	82,30
MF24	1,50	140	22	18	14,50	4	70245	92,18
MF30	1,50	150	28	22	18,00	3	70246	141,74

Ref. **3261**

**MACHO HELICOIDAL MÁQUINA MÉTRICA CORTE IZQUIERDA**

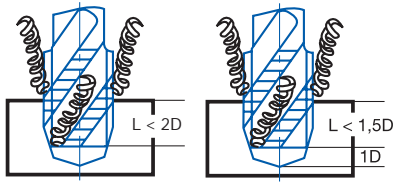
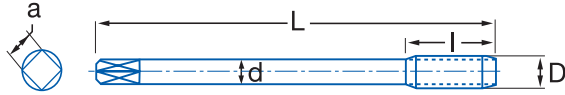
Left Cutting Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Coupe à Gauche



HSSE 5%Co	Métrica	DIN 376	C 2-3h	35°	Tol. 6H	$\alpha$ $10^\circ \pm 2$	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20



Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	2,20			59848	21,74
M4	0,70	63	7	2,80	2,10	3	59849	21,56
M5	0,80	70	8	3,50	2,70	3	59850	20,64
M6	1,00	80	10	4,50	3,40	3	59851	22,64
M8	1,25	90	13	6,00	4,90	3	59852	26,54
M10	1,50	100	15	7,00	5,50	3	59853	31,54
M12	1,75	110	18	9,00	7,00	3	59854	40,58
M14	2,00	110	20	11,00	9,00	3	59855	63,70
M16	2,00	110	20	12,00	9,00	4	59856	76,96

Ref. **3255**

**MACHO HELICOIDAL MÁQUINA MÉTRICA TOLERANCIA 6G**

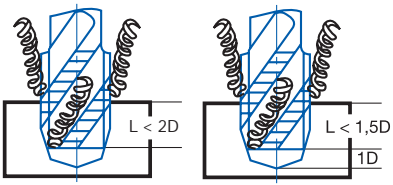
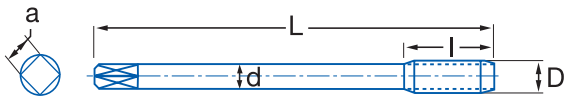
6G Tolerance Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Métrique Tolérance 6G



HSSE 5%Co	DIN 376	C 2-3h	Tol. 6G	35°	$\alpha$ $10^\circ \pm 2$	60°
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20



Vc= m/min.

M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M12	1,75	110	18	9,00	7,00	3	38336	26,07
M14	2,00	110	20	11,00	9,00	3	38337	30,10
M16	2,00	110	20	12,00	9,00	4	38338	36,36
M18	2,50	125	25	14,00	11,00	4	38339	49,51
M20	2,50	140	25	16,00	12,00	4	38340	52,10

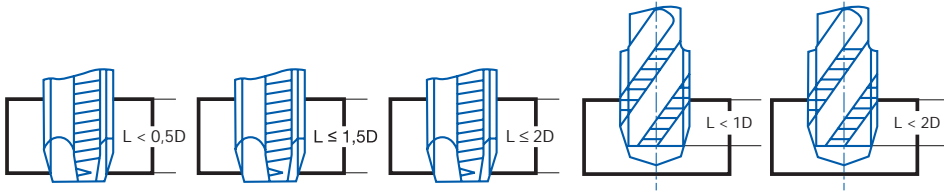
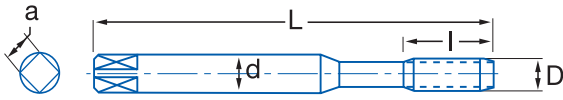
Ref. **3163**

**MACHO MÁQUINA MÉTRICA LAMINACIÓN MANGO REFORZADO**

Reinforced Shank Cold Forming Metric Machine Tap  
Taraud Machine Métrique Réfourleur Queue Renforcée



HSSE 5% Co	TICN	DIN 2174	C 2-3h		Tol. 6HX	
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Material		Vc
Grupo	Sub.	TICN
1	1.1	10-15
5	5.1	15-30
	5.2	15-30
6	6.1	15-35
	6.2	15-30

Vc= m/min.

Materiales con un Coeficiente de Alargamiento de 12-14% - 12-14% Lengthening Coefficient Materials - Matériaux avec coefficient de rallonge 12-14%

M	P	L mm	l mm	d mm	a mm	Nº Art. TICN	€
M3	0,50	56	10	3,50	2,70	21818	30,46
M3,5	0,60	56	11	4,00	3,00	21819	31,92
M4	0,70	63	12	4,50	3,40	21820	30,46
M5	0,80	70	14	6,00	4,90	21821	30,46
M6	1,00	80	16	6,00	4,90	21822	32,84
M8	1,25	90	18	8,00	6,20	21823	38,35
M10	1,50	100	20	10,00	8,00	21824	42,62
M12	1,75	110	22	9,00	7,00	21825	50,17

Ref. **3151**

**MACHO HELICOIDAL MÁQUINA MÉTRICA M. REFORZADO VAPORIZADO**

Vaporized Reinforced Shank Metric Machine Spiral Tap

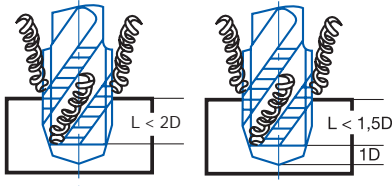
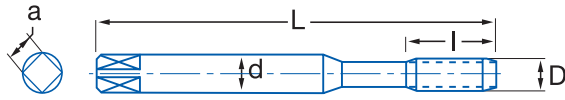
Taraud Hélicoïdal Machine Métrique Queue Renforcée Vaporisée



HSSE 5%Co	DIN 371	C 2-3h	Tol. 6H	35°	$\alpha$ 10° ± 2	Rompe Virutas Chip Breaker Brise copeaux	
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
6	6.1	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	Nº Art. 5% Co	€
M3	0,50	56	11	3,50	2,70	3	14779	16,90
M4	0,70	63	13	4,50	3,40	3	14782	16,90
M5	0,80	70	16	6,00	4,90	3	14785	17,25
M6	1,00	80	19	6,00	4,90	3	14788	18,06
M8	1,25	90	22	8,00	6,20	3	14790	21,00
M10	1,50	100	24	10,00	8,00	3	14791	24,67

Ref. **3251**

**MACHO HELICOIDAL MÁQUINA MÉTRICA VAPORIZADO**

Vaporized Metric Machine Spiral Tap

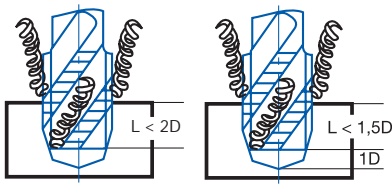
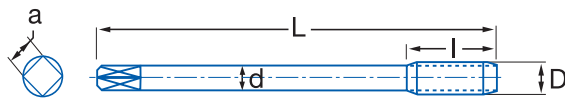
Taraud Hélicoïdal Machine Métrique Vaporisée



HSSE 5%Co	DIN 376	C 2-3h	Tol. 6H	35°	$\alpha$ 10° ± 2	Rompe Virutas Chip Breaker Brise copeaux	
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	6-10
6	6.1	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	Nº Art. 5% Co	€
M12	1,75	110	29	9,00	7,00	3	14793	32,26
M14	2,00	110	30	11,00	9,00	3	14797	40,27
M16	2,00	110	32	12,00	9,00	3	14802	44,22
M18	2,50	125	30	14,00	11,00	4	14803	63,21
M20	2,50	140	32	16,00	12,00	4	14806	65,95

Ref. **3140**

**MACHO RECTO MÁQUINA MÉTRICA COBRE/BRONCE M. REFORZADO**

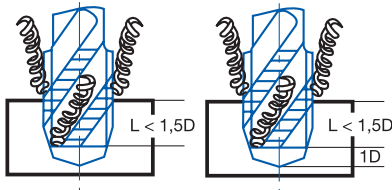
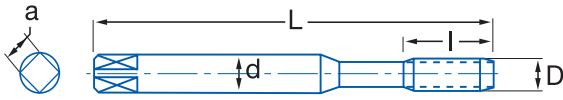
Reinforced Shank Copper/Bronze Metric Machine Straight Tap  
Taraud Droit Machine Métrique Cuivre/Bronze Queue Renforcée



HSSE 5% Co	DIN 371	C 2-3h	15°	Tol. 6H	$\alpha$ $10^\circ \pm 2$	60°
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Material		Vc
Grupo	Sub.	5% Co
5	5.1	10-15

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	3,50	2,70	3	69543	12,35
M3,5	0,60	56	6	4,00	3,00	3	69411	18,21
M4	0,70	63	7	4,50	3,40	3	69544	12,35
M5	0,80	70	8	6,00	4,90	3	69546	11,85
M6	1,00	80	10	6,00	4,90	3	69547	12,99
M7	1,00	80	10	7,00	5,50	3	69520	20,20
M8	1,25	90	13	8,00	6,20	3	69549	14,83
M10	1,50	100	15	10,00	8,00	3	69550	17,57

Ref. **3240**

**MACHO RECTO MÁQUINA MÉTRICA COBRE/BRONCE**

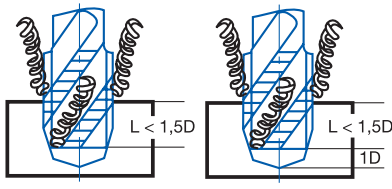
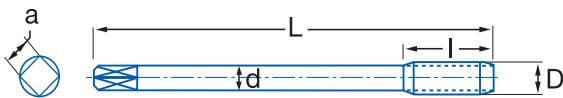
Copper/Bronze Metric Machine Straight Tap  
Taraud Droit Machine Métrique Cuivre/Bronze



HSSE 5% Co	DIN 376	C 2-3h	15°	Tol. 6H	$\alpha$ $10^\circ \pm 2$	60°
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Material		Vc
Grupo	Sub.	5% Co
5	5.1	10-15

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	5	2,20		3	69573	12,67
M4	0,70	63	7	2,80	2,10	3	69574	13,48
M5	0,80	70	8	3,50	2,70	3	69576	12,91
M6	1,00	80	10	4,50	3,40	3	69577	14,17
M8	1,25	90	13	6,00	4,90	3	69579	15,49
M10	1,50	100	15	7,00	5,50	3	69844	18,37
M12	1,75	110	18	9,00	7,00	3	69846	23,67
M14	2,00	110	20	11,00	9,00	3	69847	37,14
M16	2,00	110	20	12,00	9,00	3	69400	44,86
M18	2,50	125	25	14,00	11,00	4	16267	64,74
M20	2,50	140	25	16,00	12,00	4	40153	66,81

Ref. **3600**

## MACHO RECTO MÁQUINA MÉTRICA MANGO REFORZADO

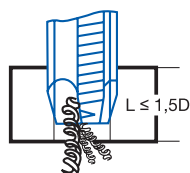
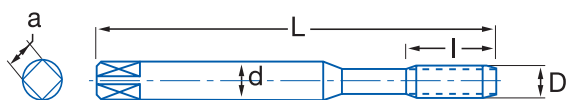
Reinforced Shank Metric Machine Straight Tap  
Taraud Droit Machine Métrique Queue Renforcée



HSSE 5%Co	M	DIN 371	A 6-8h	Tol. 6H		$\alpha$ $10^\circ \pm 2$	
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Material		Vc
Grupo	Sub.	5% Co
1	1.1	10-14

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. 5% Co	€
M3	0,50	56	11	3,50	2,70	3	76567	10,02
M4	0,70	63	13	4,50	3,40	3	76573	10,22
M5	0,80	70	16	6,00	4,90	3	76580	10,22
M6	1,00	80	19	6,00	4,90	3	76586	11,23
M8	1,25	90	22	8,00	6,20	3	76594	12,56
M10	1,50	100	24	10,00	8,00	3	76602	15,44

Ref. **3109**

**MACHO RECTO MÁQUINA MÉTRICA ISO MANGO REFORZADO**

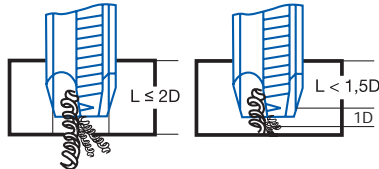
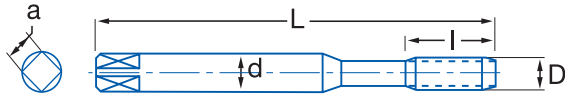
Reinforced Shank ISO Standard Metric Machine Straight Tap  
Taraud Droit Machine Metrique Norme ISO Queue Renforcée



HSS	ISO 529	B 4-5h	Tol. 6H	GUN	$\alpha$ 10-12°	
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Material		Vc
Grupo	Sub.	HSS
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSS	€
M3	0,50	48	11	3,15	2,50	3	38180	6,56
M4	0,70	53	13	4,00	3,15	3	38182	6,56
M5	0,80	58	16	5,00	4,00	3	38373	6,56
M6	1,00	66	19	6,30	5,00	3	38185	6,56
M8	1,25	72	22	8,00	6,30	3	38187	8,76
M10	1,50	80	24	10,00	8,00	3	38188	11,14

Ref. **3207**

**MACHO RECTO MÁQUINA MÉTRICA NORMA ISO**

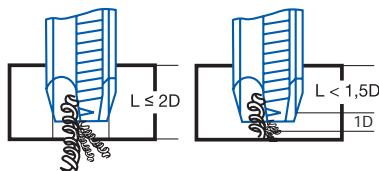
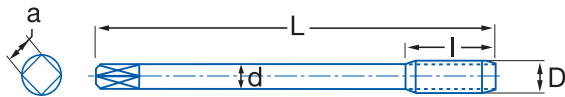
ISO Standard Metric Machine Straight Tap  
Taraud Droit Machine Metrique Norme ISO



HSS	ISO 529	B 4-5h	Tol. 6H	GUN	$\alpha$ 10-12°	
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Material		Vc
Grupo	Sub.	HSS
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSS	€
M12	1,75	89	29	9,00	7,10	3	38189	14,32
M14	2,00	95	30	11,20	9,00	3	38190	17,12
M16	2,00	102	32	12,50	10,00	3	38191	21,27
M18	2,50	112	37	14,00	11,20	3	38192	32,02
M20	2,50	112	37	14,00	11,20	3	38193	35,79
M22	2,50	118	38	16,00	12,50	3	38194	41,38
M24	3,00	130	45	18,00	14,00	3	38195	46,75
M27	3,00	135	45	20,00	16,00	3	38196	57,57
M30	3,50	138	48	20,00	16,00	3	38197	85,53

Ref. **3157**

## MACHO HELICOIDAL MÁQUINA MÉTRICA ISO M. REFORZADO

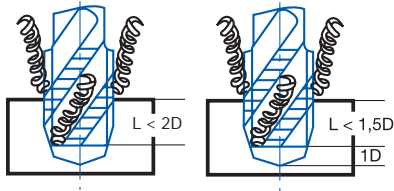
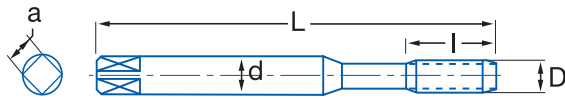
Reinforced Shank ISO Standard Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Metrique Norme ISO Queue Renforcée



Material		Vc
Grupo	Sub.	HSS
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSS	€
M3	0,50	48	11	3,15	2,50	3	38198	7,90
M4	0,70	53	13	4,00	3,15	3	38201	7,90
M5	0,80	58	16	5,00	4,00	3	38206	7,90
M6	1,00	66	19	6,30	5,00	3	38209	8,08
M8	1,25	72	22	8,00	6,30	3	38214	9,06
M10	1,50	80	24	10,00	8,00	3	38216	11,68

Ref. **3247**

## MACHO HELICOIDAL MÁQUINA MÉTRICA NORMA ISO

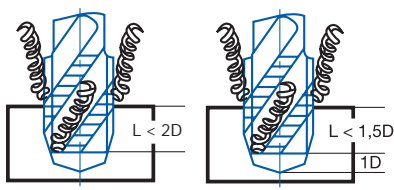
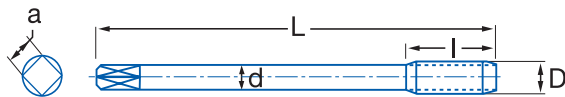
ISO Standard Metric Machine Spiral Tap

Taraud Hélicoïdal Machine Metrique Norme ISO



Material		Vc
Grupo	Sub.	HSS
1	1.1	6-10
5	5.1	5-8
6	6.1	15-35
	6.2	14-20

Vc= m/min.



M	P	L mm	l mm	d mm	a mm	Z	N° Art. HSS	€
M12	1,75	89	29	9,00	7,10	3	38226	15,17
M14	2,00	95	30	11,20	9,00	3	38228	20,73
M16	2,00	102	32	12,50	10,00	3	38229	24,05