



MASTER TAP

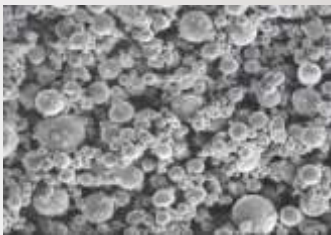
ONE SOLUTION



Gwintowniki maszynowe wysokowydajne
High performance machine taps

Grupa gwintowników **MASTERTAP** została zaprojektowana z myślą o wysokowydajnym gwintowaniu szerokiego spektrum materiałów takich jak **stale, stale nierdzewne, żeliwa, metale nieżelazne oraz stopy żaroodporne i stopy tytanu**. Gwintowanie może być wykonywane zarówno na **nowoczesnych wydajnych centrach obróbczych** jak również na **maszynach numerycznych starszego typu oraz na konwencjonalnych obrabiarkach**.

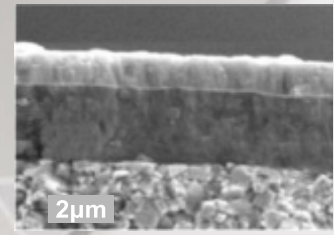
MASTERTAP's was designed for high-performance tapping a wide range of materials such as **steel, stainless steel, cast iron, non-ferrous metals, heat-resistant alloys and titanium alloys**. Threading may be performed both on **modern efficient machining centers with high cutting speeds, older type numerical machines and conventional machines with a slightly lower performance**.



STAL PROSZKOWA HSSE-PM
POWDERED STEEL



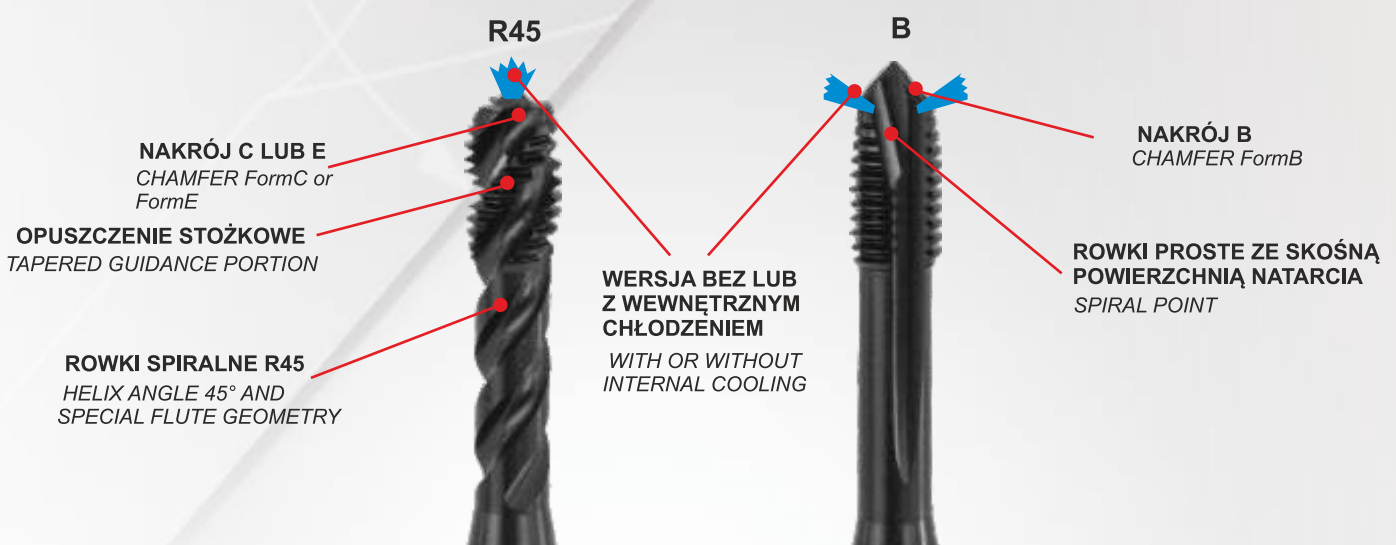
SPECJALNA MIKROGEOMETRIA OSTRZA
SPECIAL MICRO-GEOMETRY OF CUTTING EDGE



WIELOWARSTWOWA POWŁOKA PVD
MULTI-LAYER HARD MATERIAL COATING

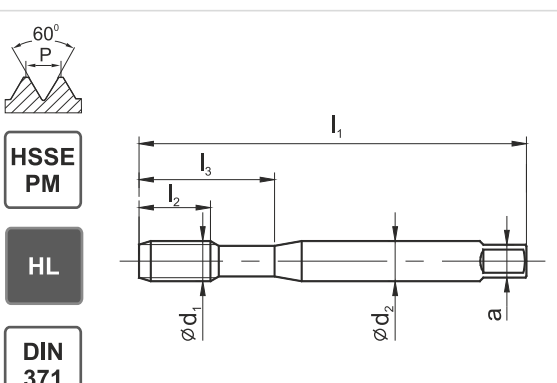
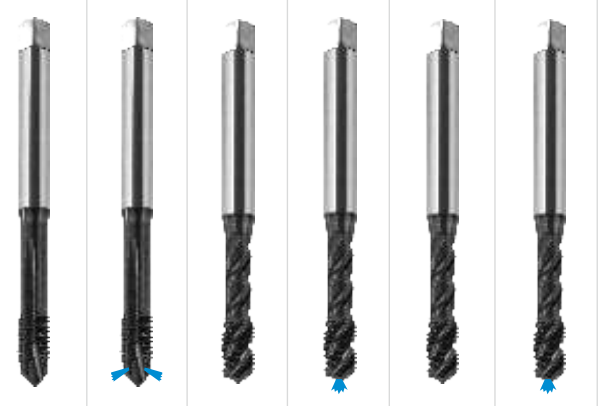
KORZYŚCI DLA UŻYTKOWNIKA / YOUR ADVANTAGES:

- **Jedno narzędzie do obróbki szerokiego spektrum materiałów** / One tool for working with wide range of materials
- **Najwyższa trwałość w porównaniu do dostępnych na rynku produktów** / The highest tool life in comparison with other products on the market
- **Najlepsza jakość powierzchni obrabianych oraz dokładność wymiarowa** / The best quality of machined surfaces
- **Doskonałe wyprowadzanie wióra** / Guaranteed optimum chip evacuation
- **Wysoka niezawodność procesu** / High level of process reliability
- **Możliwość obróbki na mokro i MQL (Minimum Quantity Lubrication)** / The possibility of wet and MQL (Minimum Quantity Lubrication) working



CECHY GWINTOWNIKÓW / FEATURES:

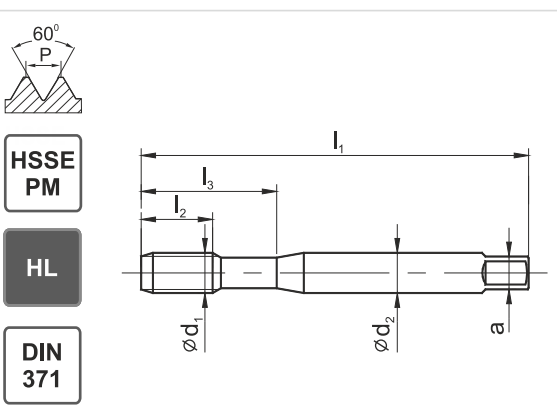



















- **Wielowarstwowa powłoka na bazie TiAlN+WC/C o znacznie wyższej twardości i gładkości**
The multi-layer coating based on TiAlN + WC / C with extra hardness and extremely smooth surface
- **Geometria i mikrogeometria ostrzy skrawających zapewniająca obróbkę szerokiej grupy materiałów**
Innovative geometry and micro-geometry of cutting edges for working with wide range of materials
- **Materiał HSSE-PM – gatunek stali szybko tnącej wykonanej w technologii spiekania proszków**
Made of HSSE-PM – high-speed powder steel

Gwint metryczny ISO DIN-13 ISO Metric thread DIN-13									MASTER TAP								
									B-HL	B-IKR-HL	C-R45-HL	C-R45-4K-HL	E-R45-HL	E-R45-4K-HL			
																	
HSSE PM HL DIN 371																	
Rodzaj materiału obrabianego / Material groups									P M K N S	P M K N S	P M K N S	P M K N S	P M K N S	P M K N S			
Typ otworu / Hole type																	
Rodzaj materiału / Quality of material									HSSE-PM HSSE-PM HSSE-PM HSSE-PM HSSE-PM HSSE-PM								
Rodzaj powłoki / Coating									HL HL HL HL HL HL								
Nakrój / Chamfer									B / 4-5P B / 4-5P C / 2-3P C / 2-3P E / 1,5-2P E / 1,5-2P								
M Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma DIN-371									
								Tol.	ISO1(4H)		ISO1(4H)						
									INDEX	C4-118M02		C4-528M02					
M1	0,25	40	6	13	2,5	2,1	0,75	0010	●			●					
M1,1	0,25	40	6	13	2,5	2,1	0,85	0011	●			●					
M1,2	0,25	40	6	13	2,5	2,1	0,95	0012	●			●					
M1,4	0,30	40	8	13	2,5	2,1	1,10	0014	●			●					
M Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma DIN-371									
								Tol.	ISO2 (6H)		ISO2 (6H)						
									INDEX	C4-118M01		C4-528M01					
M1,6	0,35	40	8	13	2,5	2,1	1,25	0016	●			●					
M1,7	0,35	40	8	13	2,5	2,1	1,35	0017	●			●					
M1,8	0,35	40	8	13	2,5	2,1	1,45	0018	●			●					
M2	0,40	45	10	13	2,8	2,1	1,60	0020	●			●					
M2,2	0,45	45	10	13	2,8	2,1	1,75	0022	●			●					
M2,3	0,40	45	10	13	2,8	2,1	1,90	0023	●			●					
M2,5	0,45	50	9	14	2,8	2,1	2,05	0025	●			●					
M2,6	0,45	50	9	14	2,8	2,1	2,15	0026	●			●					
M Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma DIN-371									
								Tol.	6HX	6HX	6HX	6HX	6HX	6HX			
									INDEX	C4-118M01	C4-118M61	C4-528M01	C4-528M51	C4-718M01	C4-718M51		
M3	0,50	56	5	18	3,5	2,7	2,50	0030	●	-	●	-	●	-			
M3,5	0,60	56	6	20	4,0	3,0	2,90	0035	●	-	●	-	●	-			
M4	0,70	63	7	21	4,5	3,4	3,30	0040	●	-	●	-	●	-			
M4,5	0,75	70	7,5	25	6,0	4,9	3,80	0045	●	-	●	-	●	-			
M5	0,80	70	8	25	6,0	4,9	4,20	0050	●	●	●	●	●	○			
M6	1,00	80	10	30	6,0	4,9	5,00	0060	●	●	●	●	●	○			
M7	1,00	80	10	30	7,0	5,5	6,00	0070	●	○	○	○	○	○			
M8	1,25	90	13	35	8,0	6,2	6,80	0080	●	●	●	●	●	○			
M9	1,25	90	13	35	9,0	7,0	7,80	0090	○	○	○	○	○	○			
M10	1,50	100	15	39	10,0	8,0	8,50	0100	●	●	●	●	●	○			
									ISO Vc (m/min)								
									P	5-40	5-50	5-40	5-50	5-40	5-50		
									M	5-15	5-25	5-15	5-25	5-15	5-25		
									K	10-30	10-50	10-30	10-50	10-30	10-50		
									N	10-30	10-50	10-30	10-50	10-30	10-50		
									S	1-8	1-8	1-8	1-8	1-8	1-8		

- **Dostępne z magazynu**
Available from stock
- **Na zapytanie**
On request

Przykład zamawiania / Example of order
C4-118M01-0100
 Gwintownik MasterTAP M10-6HX DIN-371 B HSSE-PM HL

Gwint metryczny ISO DIN-13 ISO Metric thread DIN-13									MASTER TAP									
									B-HL	B-IKR-HL	C-R45-HL	C-R45-IK-HL	E-R45-HL	E-R45-IK-HL				
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">HSSE PM</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">HL</div> <div style="border: 1px solid black; padding: 2px;">DIN 376</div> </div>																		
Rodzaj materiału obrabianego / Material groups									<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">P M K N S</div> <div style="text-align: center;">P M K N S</div> <div style="text-align: center;">P M K N S</div> <div style="text-align: center;">P M K N S</div> <div style="text-align: center;">P M K N S</div> <div style="text-align: center;">P M K N S</div> </div>									
Typ otworu / Hole type									<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> <div style="text-align: center;"></div> </div>									
Rodzaj materiału / Quality of material									HSSE-PM HSSE-PM HSSE-PM HSSE-PM HSSE-PM HSSE-PM									
Rodzaj powłoki / Coating									HL HL HL HL HL HL									
Nakrój / Chamfer									B / 4-5P B / 4-5P C / 2-3P C / 2-3P E / 1,5-2P E / 1,5-2P									
M Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma										
								DIN-376							Tol.	6HX	6HX	6HX
									INDEX	D4-118M01	D4-118M61	D4-528M01	D4-528M51	D4-718M01	D4-718M51			
M8	1,25	90	15	-	6,0	4,9	6,80	0080	●	○	●	○	○	○	○			
M10	1,50	100	17	-	7,0	5,5	8,50	0100	●	○	●	○	○	○	○			
M12	1,75	110	18	-	9,0	7,0	10,20	0120	●	●	●	●	●	○	○			
M14	2,00	110	20	-	11,0	9,0	12,00	0140	●	●	●	●	●	○	○			
M16	2,00	110	20	-	12,0	9,0	14,00	0160	●	●	●	●	●	○	○			
M18	2,50	125	25	-	14,0	11,0	15,50	0180	●	○	●	○	○	○	○			
M20	2,50	140	25	-	16,0	12,0	17,50	0200	●	○	●	○	○	○	○			
M22	2,50	140	25	-	18,0	14,5	19,50	0220	●	○	●	○	○	○	○			
M24	3,00	160	30	-	18,0	14,5	21,00	0240	●	○	●	○	○	○	○			
M27	3,00	160	30	-	20,0	16,0	24,00	0270	●	○	●	○	○	○	○			
M30	3,50	180	35	-	22,0	18,0	26,50	0300	●	○	●	○	○	○	○			
M33	3,50	180	35	-	25,0	20,0	29,50	0330	●	○	●	○	○	○	○			
M36	4,00	200	40	-	28,0	22,0	32,00	0360	●	○	●	○	○	○	○			
									ISO									
									Vc (m/min)									
									P	5-40	5-50	5-40	5-50	5-40	5-50			
									M	5-15	5-25	5-15	5-25	5-15	5-25			
									K	10-30	10-50	10-30	10-50	10-30	10-50			
									N	10-30	10-50	10-30	10-50	10-30	10-50			
									S	1-8	1-8	1-8	1-8	1-8	1-8			

Gwint metryczny drobnozwojny ISO DIN-13 ISO Metric fine thread DIN-13									MASTER TAP								
									B-HL	B-IKR-HL	C-R45-HL	C-R45-4K-HL	E-R45-HL	E-R45-4K-HL			
																	
Rodzaj materiału obrabianego / Material groups																	
Typ otworu / Hole type																	
Rodzaj materiału / Quality of material									HSSE-PM								
Rodzaj powłoki / Coating									HL								
Nakrój / Chamfer									B / 4-5P B / 4-5P C / 2-3P C / 2-3P E / 1,5-2P E / 1,5-2P								
MF Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma									
								DIN-371									
								Tol.	6HX	6HX	6HX	6HX	6HX	6HX	6HX		
INDEX			C4-118M01	C4-118M61	C4-528M01	C4-528M51	C4-718M01	C4-718M51									
M3x0,35	0,35	56	5	18	3,5	2,7	2,65	0031	●	-	●	-	○	-			
M3,5x0,35	0,35	56	5	20	4,0	3,0	3,15	0036	●	-	●	-	○	-			
M4x0,5	0,50	63	7	21	4,5	3,4	3,50	0041	●	-	●	-	○	-			
M5x0,5	0,50	70	8	25	6,0	4,9	4,50	0051	●	○	●	○	○	○			
M6x0,5	0,50	80	10	30	6,0	4,9	5,50	0061	●	○	●	○	○	○			
M6x0,75	0,75	80	10	30	6,0	4,9	5,20	0062	●	○	●	○	○	○			
M8x0,75	0,75	80	10	30	8,0	6,2	7,20	0082	●	○	●	○	○	○			
M8x1	1,00	90	13	35	8,0	6,2	7,00	0083	●	●	●	●	●	●			
M10x0,75	0,75	90	13	35	10,0	8,0	9,20	0102	●	○	●	○	○	○			
M10x1	1,00	90	13	35	10,0	8,0	9,00	0103	●	●	●	●	●	●			
M10x1,25	1,25	100	15	39	10,0	8,0	8,80	0104	●	○	●	○	○	○			
									Vc (m/min)								
									P	5-40	5-50	5-40	5-50	5-40	5-50		
									M	5-15	5-25	5-15	5-25	5-15	5-25		
									K	10-30	10-50	10-30	10-50	10-30	10-50		
									N	10-30	10-50	10-30	10-50	10-30	10-50		
									S	1-8	1-8	1-8	1-8	1-8	1-8		

Gwint metryczny drobnozwojny ISO DIN-13 ISO Metric fine thread DIN-13								MASTERTAP						
								B-HL	B-IKR-HL	C-R45-HL	C-R45-IK-HL	E-R45-HL	E-R45-IK-HL	
HSSE PM HL DIN 374														
Rodzaj materiału obrabianego / Material groups														
Typ otworu / Hole type								HSSE-PM HSSE-PM HSSE-PM HSSE-PM HSSE-PM HSSE-PM						
Rodzaj materiału / Quality of material								HL HL HL HL HL HL						
Rodzaj powłoki / Coating								B / 4-5P B / 4-5P C / 2-3P C / 2-3P E / 1,5-2P E / 1,5-2P						
Nakrój / Chamfer								Norma DIN-374 Tol. 6HX 6HX 6HX 6HX 6HX 6HX INDEX D4-118M01 D4-118M61 D4-528M01 D4-528M51 D4-718M01 D4-718M51						
MF	P	l ₁	l ₂	l ₃	∅d ₂	a								
M8x1	1,00	90	10	-	6,0	4,9	7,00	0083	●	●	●	●	●	○
M10x0,75	0,75	90	10	-	7,0	5,5	9,20	0102	○	○	○	○	○	○
M10x1	1,00	90	10	-	7,0	5,5	9,00	0103	●	●	●	●	●	○
M10x1,25	1,25	100	15	-	7,0	5,5	8,80	0104	○	○	○	○	○	○
M12x1	1,00	100	10	-	9,0	7,0	11,00	0123	●	○	●	○	○	○
M12x1,25	1,25	100	15	-	9,0	7,0	10,80	0124	●	○	●	○	○	○
M12x1,5	1,50	100	15	-	9,0	7,0	10,50	0125	●	●	●	●	●	○
M14x1	1,00	100	10	-	11,0	9,0	13,00	0143	○	○	○	○	○	○
M14x1,25	1,25	100	15	-	11,0	9,0	12,80	0144	○	○	○	○	○	○
M14x1,5	1,50	100	15	-	11,0	9,0	12,50	0145	●	●	●	●	●	○
M15x1	1,00	100	10	-	12,0	9,0	14,00	0153	○	○	○	○	○	○
M16x1	1,00	100	10	-	12,0	9,0	15,00	0163	○	○	○	○	○	○
M16x1,5	1,50	100	15	-	12,0	9,0	14,50	0165	●	●	●	●	●	○
M18x1	1,00	110	13	-	14,0	11,0	17,00	0183	○	○	○	○	○	○
M18x1,5	1,50	110	17	-	14,0	11,0	16,50	0185	●	○	●	○	○	○
M18x2	2,00	125	20	-	14,0	11,0	16,00	0186	○	○	○	○	○	○
M20x1	1,00	125	13	-	16,0	12,0	19,00	0203	○	○	○	○	○	○
M20x1,5	1,50	125	17	-	16,0	12,0	18,50	0205	●	○	●	○	○	○
M20x2	2,00	140	20	-	16,0	12,0	18,00	0206	○	○	○	○	○	○
M22x1	1,00	125	13	-	18,0	14,5	21,00	0223	○	○	○	○	○	○
M22x1,5	1,50	125	17	-	18,0	14,5	20,50	0225	●	○	●	○	○	○
M22x2	2,00	140	20	-	18,0	14,5	20,00	0226	○	○	○	○	○	○
M24x1	1,00	140	13	-	18,0	14,5	23,00	0243	○	○	○	○	○	○
M24x1,5	1,50	140	20	-	18,0	14,5	22,50	0245	●	○	●	○	○	○
M24x2	2,00	140	20	-	18,0	14,5	22,00	0246	○	○	○	○	○	○
								Vc (m/min)						
P								5-40	5-50	5-40	5-50	5-40	5-50	
M								5-15	5-25	5-15	5-25	5-15	5-25	
K								10-30	10-50	10-30	10-50	10-30	10-50	
N								10-30	10-50	10-30	10-50	10-30	10-50	
S								1-8	1-8	1-8	1-8	1-8	1-8	

Przykład zamawiania / Example of order

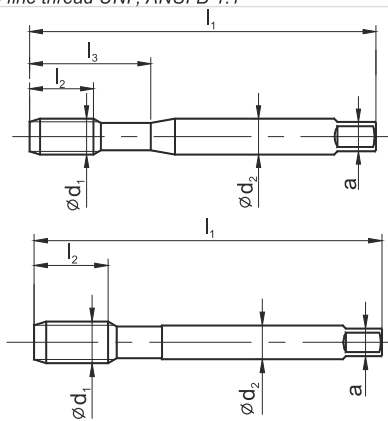
D4-118M01-0083
Gwintownik MasterTAP M8x1-6HX DIN-374 B HSSE-PM HL

- Dostępne z magazynu
Available from stock
- Na zapytanie
On request

Gwint amerykański zunifikowany UNC, ANSI B-1.1 <i>American unified coarse thread UNC, ANSI B-1.1</i>										MASTERTAP								
										B-HL		C-R45-HL						
Rodzaj materiału obrabianego / Material groups																		
Typ otworu / Hole type																		
Rodzaj materiału / Quality of material										HSSE-PM		HSSE-PM						
Rodzaj powłoki / Coating										HL		HL						
Nakrój / Chamfer										B / 4-5P		C / 2-3P						
UNC	Ød ₁	1"/P	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma			DIN-371					
										Toł.			2BX		2BX			
										INDEX			C4-118M01		C4-528M01			
No2-56	2,184	56	0,455	45	10	13	2,8	2,1	1,85	4102	○	○						
No4-40	2,844	40	0,635	56	5	18	3,5	2,7	2,35	4104	●	●						
No5-40	3,175	40	0,635	56	7	18	3,5	2,7	2,65	4105	●	●						
No6-32	3,505	32	0,794	56	6	20	4,0	3,0	2,85	4106	●	●						
No8-32	4,165	32	0,794	63	7	21	4,5	3,4	3,50	4108	●	●						
No10-24	4,826	24	1,058	70	8	25	6,0	4,9	3,90	4110	●	●						
No12-24	5,486	24	1,058	80	10	30	6,0	4,9	4,50	4112	●	●						
1/4-20	6,350	20	1,270	80	13	30	7,0	5,5	5,10	4127	●	●						
5/16-18	7,938	18	1,411	90	13	35	8,0	6,0	6,60	4128	●	●						
3/8-16	9,525	16	1,588	100	15	39	10,0	8,0	8,00	4129	●	●						
UNC	Ød ₁	1"/P	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma			DIN-376					
										Toł.			2BX		2BX			
										INDEX			D4-118M01		D4-528M01			
7/16-14	11,112	14	1,814	100	15	-	8,0	6,2	9,40	4130	●	●						
1/2-13	12,700	13	1,954	110	18	-	9,0	7,0	10,80	4131	●	●						
9/16-12	14,288	12	2,117	110	20	-	11,0	9,0	12,20	4132	●	●						
5/8-11	15,875	11	2,309	110	22	-	12,0	9,0	13,50	4133	●	●						
										ISO		Vc (m/min)						
										P	5-40	5-40						
										M	5-15	5-15						
										K	10-30	10-30						
										N	10-30	10-30						
										S	1-8	1-8						

Gwint amerykański zunifikowany drobnozwojny UNF, ANSI B-1.1

American unified fine thread UNF, ANSI B-1.1


**HSSE
PM**
HL
**DIN
371**

MASTERTAP

B-HL

C-R45-HL



Rodzaj materiału obrabianego / Material groups



Typ otworu / Hole type



Rodzaj materiału / Quality of material

HSSE-PM HSSE-PM

Rodzaj powłoki / Coating

HL HL

Nakrój / Chamfer

B / 4-5P C / 2-3P

UNF	Ød ₁	1"/P	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma					
										DIN-371					
										Tol.	2BX	2BX			
										INDEX	C4-118M01	C4-528M01			
No4-48	2,844	48	0,529	56	5	18	3,5	2,7	2,40	4204	●	●			
No5-44	3,175	44	0,557	56	7	18	3,5	2,7	2,70	4205	●	●			
No6-40	3,505	40	0,635	56	6	20	4,0	3,0	2,95	4206	●	●			
No8-36	4,165	36	0,705	63	7	21	4,5	3,4	3,50	4208	●	●			
No10-32	4,826	32	0,794	70	8	25	6,0	4,9	4,10	4210	●	●			
No12-28	5,486	28	0,907	80	10	30	6,0	4,9	4,60	4212	●	●			
1/4-28	6,350	28	0,907	80	10	30	7,0	5,5	5,50	4227	●	●			
5/16-24	7,938	24	1,058	90	13	35	8,0	6,0	6,90	4228	●	●			
3/8-24	9,525	24	1,058	100	15	39	10,0	8,0	8,50	4229	●	●			

UNF	Ød ₁	1"/P	P	l ₁	l ₂	l ₃	Ød ₂	a		Norma					
										DIN-374					
										Tol.	2BX	2BX			
										INDEX	D4-118M01	D4-528M01			
7/16-20	11,112	20	1,270	100	15	-	8,0	6,2	9,90	4230	●	●			
1/2-20	12,700	20	1,270	100	15	-	9,0	7,0	11,50	4231	●	●			
9/16-18	14,288	18	1,411	100	15	-	11,0	9,0	12,90	4232	●	●			
5/8-18	15,875	18	1,411	100	15	-	12,0	9,0	14,50	4233	●	●			

ISO		Vc (m/min)	
P	5-40	5-40	
M	5-15	5-15	
K	10-30	10-30	
N	10-30	10-30	
S	1-8	1-8	

Przykład zamawiania / Example of order

 C4-118M01-4210
 Gwintownik MasterTAP No10-32 UNF 2BX DIN-371 B HSSE-PM HL

- Dostępne z magazynu
Available from stock
- Na zapytanie
On request

Gwint rurowy walcowy G, DIN-ISO 228 <i>Whitworth pipe thread G, DIN-ISO 228</i>										MASTERTAP																																																																																																																																																																																																																																														
										B-HL	C-R45-HL																																																																																																																																																																																																																																													
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Gwint metryczny zwykły ISO DIN 8140-2 ISO Metric coarse thread DIN 8140-2											MASTER TAP																						
											B-HL		E-R45-HL																				
Rodzaj materiału obrabianego / Material groups											<table border="1"> <tr><td>P</td><td>M</td><td>K</td></tr> <tr><td>N</td><td>S</td><td>H</td></tr> </table>		P	M	K	N	S	H	<table border="1"> <tr><td>P</td><td>M</td><td>K</td></tr> <tr><td>N</td><td>S</td><td>H</td></tr> </table>		P	M	K	N	S	H							
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Rodzaj materiału / Quality of material											HSSE-PM		HSSE-PM																				
Rodzaj powłoki / Coating											HL		HL																				
Nakrój / Chamfer											B / 4-5P		E / 1,5-2P																				
EG M (STI)	Ød ₁	P	l ₁	l ₂	l ₃ R45	Ød ₂	a		Norma		~DIN-371(DIN-40435)																						
									Tol.		6H mod.	6H mod.																					
									INDEX		C4-118M01	C4-718M01																					
M2	2,520	0,40	50	9	5	14	2,8	2,1	2,10	6020	●	●																					
M2,5	3,084	0,45	56	10	5	18	3,5	2,7	2,65	6025	●	●																					
M3	3,650	0,50	63	12	5	21	4,5	3,4	3,15	6030	●	●																					
M4	4,910	0,70	70	14	8	25	6,0	4,9	4,20	6040	●	●																					
M5	6,040	0,80	80	18	10	30	6,0	4,9	5,25	6050	●	●																					
M6	7,300	1,00	90	18	10	35	8,0	6,2	6,30	6060	●	●																					
M8	9,624	1,25	100	20	16	39	10,0	8,0	8,40	6080	●	●																					
EG M (STI)	Ød ₁	P	l ₁	l ₂	l ₃ R45	Ød ₂	a		Norma		~DIN-376(DIN-40435)																						
									Tol.		6H mod.	6H mod.																					
									INDEX		D4-118M01	D4-718M01																					
M10	11,948	1,50	100	15	15	-	9,0	7,0	10,50	6100	●	●																					
M12	14,274	1,75	110	20	20	-	11,0	9,0	12,50	6120	●	●																					
M14	16,598	2,00	110	20	20	-	12,0	9,0	14,50	6140	●	●																					
M16	18,598	2,00	125	20	20	-	14,0	11,0	16,50	6160	●	●																					
M18	21,248	2,50	140	27	27	-	18,0	14,5	18,75	6180	●	●																					
M20	23,248	2,50	160	30	30	-	18,0	14,5	20,75	6200	●	●																					
ISO											Vc (m/min)																						
P											5-40	5-40																					
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Gwint amerykański zunifikowany UNC, ASME B18.29.1 <i>American unified fine thread UNC, ASME B18.29.1</i>											MASTERTAP																					
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <div style="border: 1px solid black; padding: 2px; margin: 5px;">HSSE PM</div> <div style="border: 1px solid black; padding: 2px; margin: 5px;">HL</div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">DIN ~371</div> <div style="border: 1px solid black; padding: 2px;">DIN ~376</div> </div> </div> <div style="width: 60%; text-align: center;"> </div> <div style="width: 20%; text-align: center;"> </div> </div>											B-HL	E-R45-HL																				
											Rodzaj materiału obrabianego / Material groups											<table border="1" style="font-size: 8px; border-collapse: collapse;"> <tr><td>P</td><td>M</td><td>K</td></tr> <tr><td>N</td><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<table border="1" style="font-size: 8px; border-collapse: collapse;"> <tr><td>P</td><td>M</td><td>K</td></tr> <tr><td>N</td><td>S</td><td>H</td></tr> </table>	P	M	K
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EG UNC (STI)	$\varnothing d_1$	1/P	l_1	l_2	l_2 R45	l_3	$\varnothing d_2$	a		Norma	~DIN-371(DIN-40435)																					
										Toł.	2B	2B																				
										INDEX	C4-118M01	C4-718M01																				
No4-40	3,671	40	63	13	7	21	4,5	3,4	3,10	6804	o	o																				
No6-32	4,536	32	70	14	8	25	6,0	4,9	3,80	6806	o	o																				
No8-32	5,197	32	80	16	10	30	6,0	4,9	4,40	6808	o	o																				
No10-24	6,200	24	80	17	12	30	7,0	5,5	5,20	6810	o	o																				
1/4-20	8,002	20	90	20	15	35	8,0	6,2	6,70	6827	o	o																				
5/16-18	9,771	18	100	22	18	39	10,0	8,0	8,40	6828	o	o																				
EG UNC (STI)	$\varnothing d_1$	1/P	l_1	l_2	l_2 R45	l_3	$\varnothing d_2$	a		Norm	~DIN-376(DIN-40435)																					
										Toł.	2B	2B																				
										INDEX	D4-118M01	D4-718M01																				
3/8-16	11,587	16	100	15	15	-	9	7	10	6829	o	o																				
7/16-14	13,469	14	110	18	18	-	11	9	11,6	6830	o	o																				
1/2-13	15,237	13	110	18	18	-	12	9	13,3	6831	o	o																				
9/16-12	17,039	12	110	20	20	-	12	9	14,9	6832	o	o																				
5/8-11	18,875	11	125	20	20	-	14	11	16,5	6833	o	o																				
3/4-10	22,349	10	140	25	25	-	18	14,5	19,75	6835	o	o																				
ISO											Vc (m/min)																					
P											5-40	5-40																				
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Gwint amerykański zunifikowany drobnozwojny UNF, ASME B18.29.1

American unified fine thread UNF, ASME B18.29.1

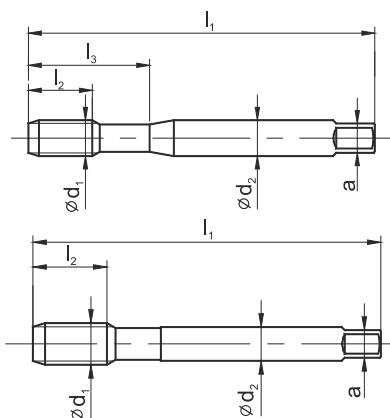


HSSE
PM

HL

DIN
~371

DIN
~376



MASTERTAP

B-HL

E-R45-HL



Rodzaj materiału obrabianego / Material groups



Typ otworu / Hole type



Rodzaj materiału / Quality of material

HSSE-PM HSSE-PM

Rodzaj powłoki / Coating

HL HL

Nakrój / Chamfer

B / 4-5P E / 1,5-2P

EG UNF (STI)	Ød ₁	1/P	l ₁	l ₂	l ₂ R45	l ₃	Ød ₂	a		Norma ~DIN-371(DIN-40435)		
										Tol.	2B	2B
										INDEX	C4-118M01	C4-718M01
No4-56	3,533	56	48	9	6	20	4	3	3	6904	o	o
No6-40	4,330	40	70	10	7	25	6	4,9	3,7	6906	o	o
No8-36	5,083	36	80	13	9	30	6	4,9	4,4	6908	o	o
No10-32	5,858	32	80	13	9	30	6	4,9	5,1	6910	o	o
1/4-28	7,528	28	90	17	10	35	8	6,2	6,6	6927	o	o
5/16-24	9,312	24	90	18	12	35	10	8	8,3	6928	o	o

EG UNF (STI)	Ød ₁	1/P	l ₁	l ₂	l ₂ R45	l ₃	Ød ₂	a		Norm ~DIN-376(DIN-40435)		
										Tol.	2B	2B
										INDEX	D4-118M01	D4-718M01
3/8-24	10,899	24	90	12	12	-	8	6	9,8	6929	o	o
7/16-20	12,763	20	100	15	15	-	9	7	11,5	6930	o	o
1/2-20	14,352	20	100	15	15	-	11	9	13,1	6931	o	o
9/16-18	16,121	18	100	15	15	-	12	9	14,7	6932	o	o
5/8-18	17,709	18	110	15	15	-	14	11	16,25	6933	o	o
3/4-16	21,112	16	125	17	17	-	16	12,0	19,5	6935	o	o

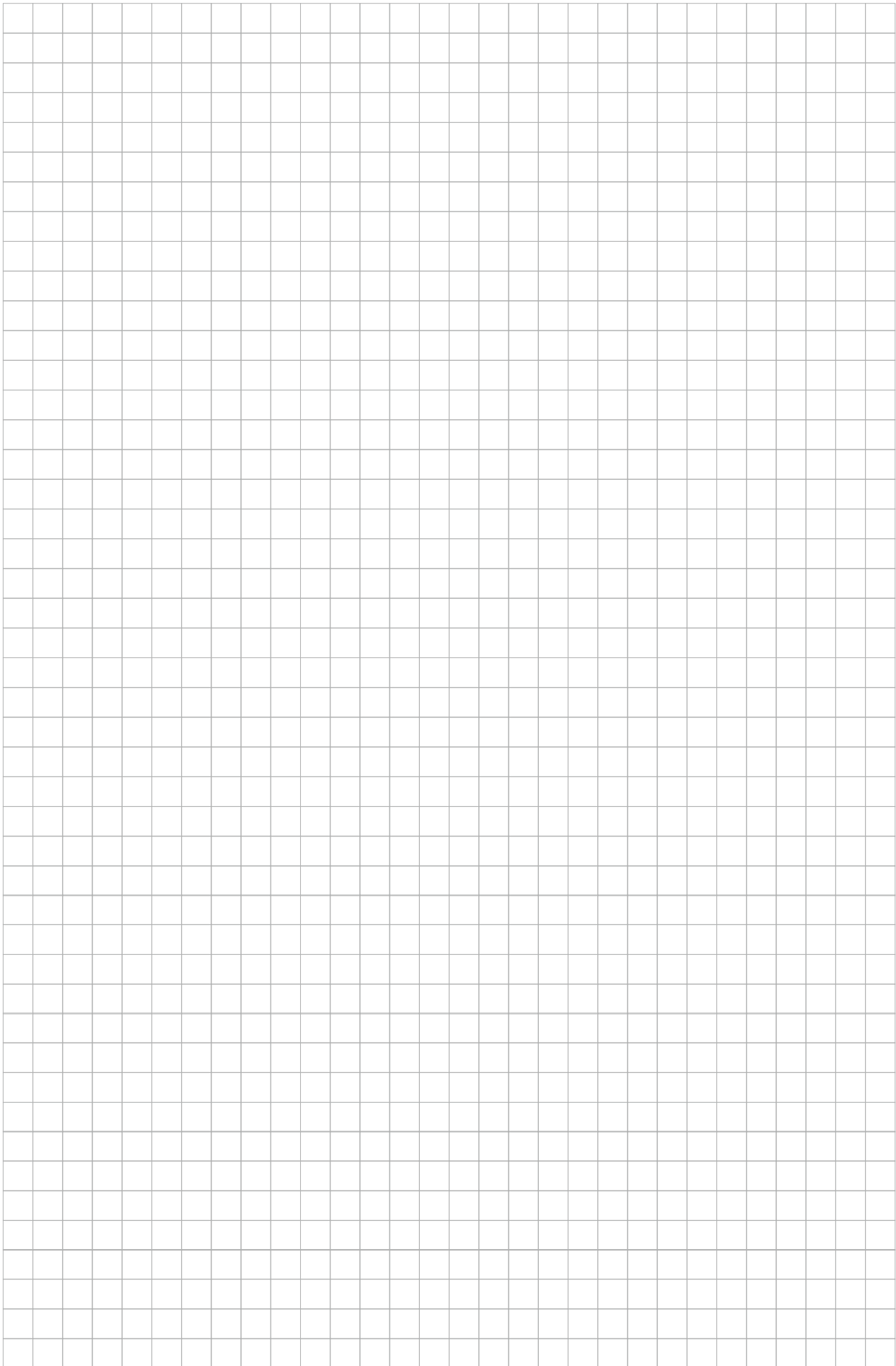
ISO	Vc (m/min)	
P	5-40	5-40
M	5-15	5-15
K	10-30	10-30
N	10-30	10-30
S	1-8	1-8

Przykład zamawiania / Example of order

C4-118M01-6904
Gwintownik MasterTAP No4-56-2B ~DIN-371 B HSSE-PM HL

- Dostępne z magazynu
Available from stock
- Na zapytanie
On request





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MASTERTAP

Gwintowniki maszynowe wysokowydajne
High performance machine taps

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