

Machine Taps 2020/2021

High-Performance Machine Taps



ToolFactory

Cutting Tool Solutions

More than just being a supplier of tools, our company name "TOOL FACTORY Cutting Tool Solutions GmbH" implies the development of customized and efficient machining solutions to meet your individual application requirements.

20 years' experience in the tooling sector as well as our partnership with the specialized trades make us a reliable supplier appreciated by our customers.

Our motivation

Striving for an on-going improvement is the main part of our mission statement and includes the continued development of our products, services and our staff. We believe that this is the only way to respond to our customers' needs and to help them meet the ever-growing challenging demands they are facing now and in the future.

Constantly improving our company and our product range, we have now become one of the leading suppliers of drills and milling tools. Our products are used by major national and international organisations in the aerospace industry, the automotive industry and the medical technology sector.

We provide high-quality precision tools made from high-performance and durable cutting materials.

New milling technologies and the development of innovative strategies for machining advanced materials – such as titanium and nickel alloys and carbon composite materials – are core competencies of our day-to-day business.



















































Rather partner than only supplier

For any special machining demands, we offer the development of customized solutions and technical competency to assist you with any cutting and machining issues.

Our substantial stocks and a modern warehouse management system allow us to ship your products on the same day and thus ensure a next-day delivery on time throughout Germany.

This makes TOOL FACTORY a reliable partner for all your application requirements.

Content Overview

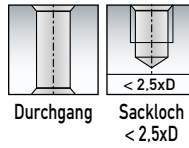
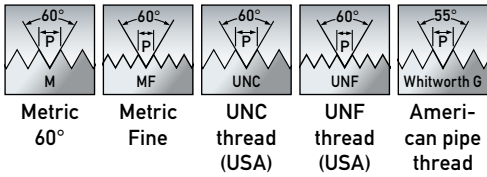
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Alle Preise verstehen sich in Euro pro Stück plus gesetzlicher MwSt. Es gelten unsere allgemeinen Geschäftsbedingungen.

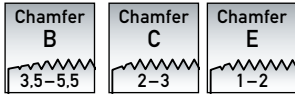
Katalog Hochleistungs-Gewindewerkzeuge 2020/2021 |
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Änderungen und Irrtümer vorbehalten.

Symbols For Page Reference

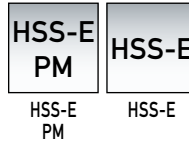
Thread form



Chamfer



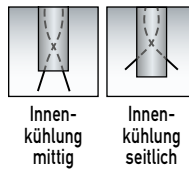
Grade



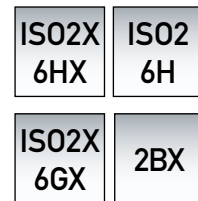
Coating



Internal coolant



Tolerances



Material class	Suitable	Partly suitable	Not suitable
Steel	P	P	P
INOX	M	M	M
Cast iron	K	K	K
Non-ferrous metals	N	N	N
Special and titanium alloys	S	S	S
Hard materials	H	H	H

Professional Line

HSS-PM High Performance Machine Tap

- High-performance machine tap featuring an innovative geometry for the use in a wide range of materials
- Highest level of cutting performance and process reliability with best chip evacuation
- Smooth high-performance coating featuring extremely high hardness
- Usable in machines with a synchronous spindle, a tension/compression compensation chuck, thread-cutting machines and more
- Excellent results with cutting fluids and minimum lubrication systems

	HSS-E PM		Chamfer B 3.5–5.5	ISO2X 6HX		
			Chamfer C 2–3	ISO2X 6GX		
			Chamfer E 1–2			



Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²

97700

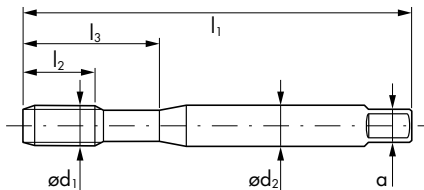
**HSS-E
PM**

 Chamfer
B
3.5–5.5

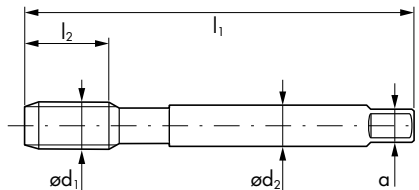
**ISO2X
6HX**



HSS-PM High Performance Machine Tap Through Hole ISO Metric Coarse Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	a		DIN	Coated	
									Part No.	
M 1	0.25	40	6	12	2.5	2.1	0.75	371	97700010	
M 1.1	0.25	40	6	12	2.5	2.1	0.85	371	97700011	
M 1.2	0.25	40	6	12	2.5	2.1	0.95	371	97700012	
M 1.4	0.3	40	8	12	2.5	2.1	1.10	371	97700014	
M 1.6	0.35	40	8	12	2.5	2.1	1.25	371	97700016	
M 1.7	0.35	40	8	12	2.5	2.1	1.35	371	97700017	
M 1.8	0.35	40	8	12	2.5	2.1	1.45	371	97700018	
M 2	0.40	45	10	12	2.8	2.1	1.60	371	97700020	
M 2.2	0.45	45	10	12	2.8	2.1	1.75	371	97700022	
M 2.3	0.40	45	10	12	2.8	2.1	1.90	371	97700023	
M 2.5	0.45	50	9	14	2.8	2.1	2.05	371	97700025	
M 2.6	0.45	50	9	14	2.8	2.1	2.15	371	97700026	
M 3	0.50	56	5	18	3.5	2.7	2.50	371	97700030	
M 3.5	0.60	56	6	20	4.0	3.0	2.90	371	97700035	
M 4	0.70	63	7	21	4.5	3.4	3.30	371	97700040	
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97700050	
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97700060	
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97700080	
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97700100	
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97700120	
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97700140	
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97700160	
M 18	2.50	125	25	–	14.0	11.0	15.50	376	97700180	
M 20	2.50	140	25	–	16.0	12.0	17.50	376	97700200	
M 22	2.50	140	25	–	18.0	14.5	19.50	376	97700220	
M 24	3.00	160	30	–	18.0	14.5	21.00	376	97700240	
M 27	3.00	160	30	–	20.0	16.0	24.00	376	97700270	
M 30	3.50	180	35	–	22.0	18.0	26.50	376	97700300	
M 33	3.50	180	35	–	25.0	20.0	29.50	376	97700330	
M 36	4.00	200	40	–	28.0	22.0	32.00	376	97700360	

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18–45	18–45	5–25	5–25	5–25	10–40	10–40	5–15

 Product family **166**

97710



**HSS-E
PM**



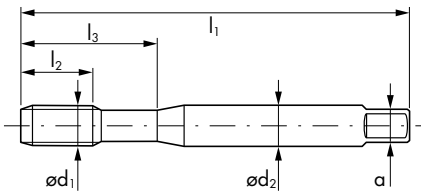
**Chamfer
C
2-3**

**ISO2X
6HX**

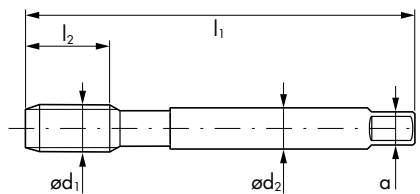


HSS-PM High Performance Machine Tap Blind Hole ISO Metric Coarse Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	a		DIN	Coated	
									Part No.	
M 1	0.25	40	6	12	2.5	2.1	0.75	371	97710010	
M 1.1	0.25	40	6	12	2.5	2.1	0.85	371	97710011	
M 1.2	0.25	40	6	12	2.5	2.1	0.95	371	97710012	
M 1.4	0.3	40	8	12	2.5	2.1	1.10	371	97710014	
M 1.6	0.35	40	8	12	2.5	2.1	1.25	371	97710016	
M 1.7	0.35	40	8	12	2.5	2.1	1.35	371	97710017	
M 1.8	0.35	40	8	12	2.5	2.1	1.45	371	97710018	
M 2	0.40	45	10	12	2.8	2.1	1.60	371	97710020	
M 2.2	0.45	45	10	12	2.8	2.1	1.75	371	97710022	
M 2.3	0.40	45	10	12	2.8	2.1	1.90	371	97710023	
M 2.5	0.45	50	9	14	2.8	2.1	2.05	371	97710025	
M 2.6	0.45	50	9	14	2.8	2.1	2.15	371	97710026	
M 3	0.50	56	5	18	3.5	2.7	2.50	371	97710030	
M 3.5	0.60	56	6	20	4.0	3.0	2.90	371	97710035	
M 4	0.70	63	7	21	4.5	3.4	3.30	371	97710040	
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97710050	
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97710060	
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97710080	
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97710100	
M 12	1.75	110	18	—	9.0	7.0	10.20	376	97710120	
M 14	2.00	110	20	—	11.0	9.0	12.00	376	97710140	
M 16	2.00	110	20	—	12.0	9.0	14.00	376	97710160	
M 18	2.50	125	25	—	14.0	11.0	15.50	376	97710180	
M 20	2.50	140	25	—	16.0	12.0	17.50	376	97710200	
M 22	2.50	140	25	—	18.0	14.5	19.50	376	97710220	
M 24	3.00	160	30	—	18.0	14.5	21.00	376	97710240	
M 27	3.00	160	30	—	20.0	16.0	24.00	376	97710270	
M 30	3.50	180	35	—	22.0	18.0	26.50	376	97710300	
M 33	3.50	180	35	—	25.0	20.0	29.50	376	97710330	
M 36	4.00	200	40	—	28.0	22.0	32.00	376	97710360	

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18–45	18–45	5–25	5–25	5–25	10–40	10–40	5–15

97720



HSS-E
PM



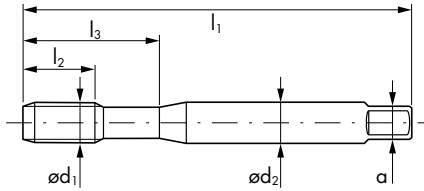
Chamfer
E
1-2

ISO2X
6HX

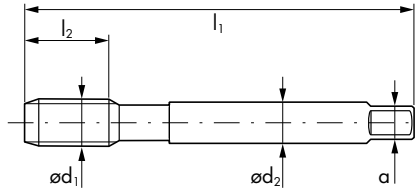


HSS-PM High Performance Machine Tap Blind Hole ISO Metric Coarse Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.50	56	5	18	3.5	2.7	2.50	371	97720030	
M 4	0.70	63	7	21	4.5	3.4	3.30	371	97720040	
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97720050	
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97720060	
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97720080	
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97720100	
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97720120	
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97720140	
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97720160	

97730



HSS-E
PM



Chamfer
B
3.5-5.5



ISO2X
6HX



HSS-PM High Performance Machine Tap IC Through Hole ISO Metric Coarse Thread DIN-13



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97730050	
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97730060	
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97730080	
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97730100	
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97730120	
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97730140	
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97730160	

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V _c (m/min)	18-45	18-45	5-25	5-25	5-25	10-40	10-40	5-15

Product family 166

97740



HSS-E
PM

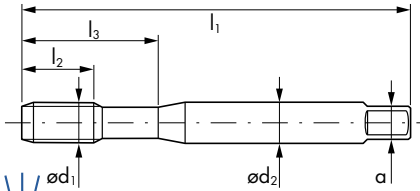


ISO2X
6HX

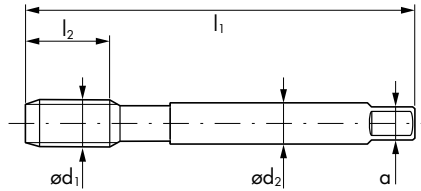


**HSS-PM High Performance Machine Tap IC Blind Hole
ISO Metric Coarse Thread DIN-13**

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated
									Part No.
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97740050
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97740060
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97740080
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97740100
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97740120
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97740140
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97740160

97701



HSS-E
PM



NEW
ISO2X
6GX



**HSS-PM high performance machine tap through hole
ISO metric oversize thread DIN-13**

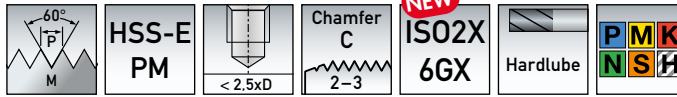


Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated
									Part No.
M 3	0.50	56	5	18	3.5	2.7	2.50	371	97701030
M 4	0.70	63	7	21	4.5	3.4	3.30	371	97701040
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97701050
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97701060
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97701080
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97701100
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97701120
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97701140
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97701160

- Oversize 0.02–0.04 mm
- For workpieces with subsequent surface treatment. e.g. Electroplating, hard coating
- For workpieces that shrink slightly after heat treatment

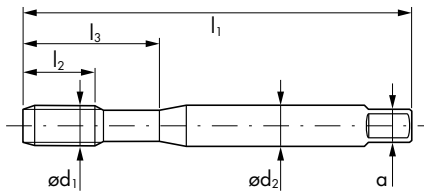
Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18–45	18–45	5–25	5–25	5–25	10–40	10–40	5–15

97711

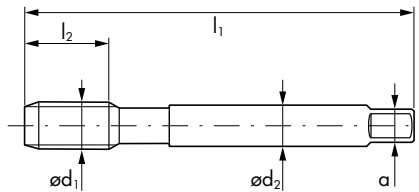


HSS-PM High Performance Machine Tap Blind Hole ISO metric oversize thread DIN-13

DIN-371



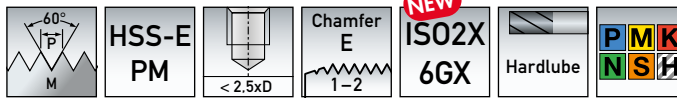
DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.50	56	5	18	3.5	2.7	2.50	371	97711030	
M 4	0.70	63	7	21	4.5	3.4	3.30	371	97711040	
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97711050	
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97711060	
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97711080	
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97711100	
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97711120	
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97711140	
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97711160	

- Oversize 0.02–0.04 mm
- For workpieces with subsequent surface treatment. e.g: Electroplating, hard coating
- For workpieces that shrink slightly after heat treatment

97721



HSS-PM High Performance Machine Tap Blind Hole ISO metric oversize thread DIN-13



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.50	56	5	18	3.5	2.7	2.50	371	97721030	
M 4	0.70	63	7	21	4.5	3.4	3.30	371	97721040	
M 5	0.80	70	8	25	6.0	4.9	4.20	371	97721050	
M 6	1.00	80	10	30	6.0	4.9	5.00	371	97721060	
M 8	1.25	90	13	35	8.0	6.2	6.80	371	97721080	
M 10	1.50	100	15	39	10.0	8.0	8.50	371	97721100	
M 12	1.75	110	18	–	9.0	7.0	10.20	376	97721120	
M 14	2.00	110	20	–	11.0	9.0	12.00	376	97721140	
M 16	2.00	110	20	–	12.0	9.0	14.00	376	97721160	

- Oversize 0.02–0.04 mm
- For workpieces with subsequent surface treatment. e.g: Electroplating, hard coating
- For workpieces that shrink slightly after heat treatment

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18–45	18–45	5–25	5–25	5–25	10–40	10–40	5–15

Product family 166

97760



**HSS-E
PM**



**Chamfer
B
3.5–5.5**

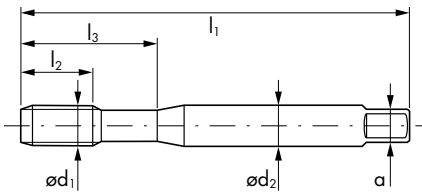
**ISO2X
6HX**

Hardlube

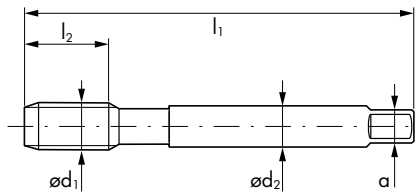


HSS-PM High Performance Machine Tap Through Hole ISO Metric Fine Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.35	56	5	18	3.5	2.7	2.65	371	97760031	
M 3.5	0.35	56	5	20	4.0	3.0	3.15	371	97760036	
M 4	0.5	63	7	21	4.5	3.4	3.5	371	97760041	
M 5	0.5	70	8	25	6.0	4.9	4.5	371	97760051	
M 6	0.5	80	10	30	6.0	4.9	5.5	371	97760061	
M 6	0.75	80	10	30	6.0	4.9	5.2	371	97760062	
M 8	0.75	80	10	30	6.0	6.2	7.2	371	97760082	
M 8	1.00	90	10	–	6.0	4.9	7.00	374	97760081	
M 10	1.00	90	10	–	7.0	5.5	9.00	374	97760101	
M 10	1.25	100	15	–	7.0	5.5	8.80	374	97760102	
M 12	1.00	100	10	–	9.0	7.0	11.00	374	97760122	
M 12	1.25	100	15	–	9.0	7.0	10.80	374	97760123	
M 12	1.50	100	15	–	9.0	7.0	10.50	374	97760121	
M 14	1.50	100	15	–	11.0	9.0	12.50	374	97760141	
M 16	1.50	100	15	–	12.0	9.0	14.50	374	97760161	
M 18	1.50	110	17	–	14.0	11.0	16.50	374	97760181	
M 20	1.50	125	17	–	16.0	12.0	18.50	374	97760201	
M 22	1.50	125	17	–	18.0	14.5	20.50	374	97760221	
M 24	1.50	140	20	–	18.0	14.5	22.50	374	97760241	

Material	Baustähle/ Automatenstähle	niedriglegierter Stahl	Werkzeugstahl	hochlegierter Stahl	Rostfreier Stahl	Gusseisen	Aluminium- legierungen	Ni-Sonderlegierungen
Zugfestigkeit / Härte	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	25–55	25–55	5–25	5–25	5–30	15–50	15–50	5–15

Artikelgruppe 166

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NEWS

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97770



HSS-E
PM



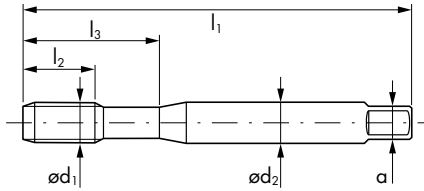
Chamfer
C
2-3

ISO2X
6HX

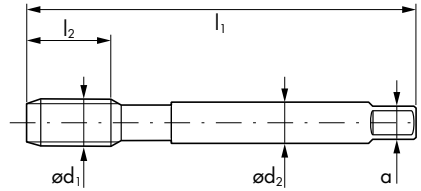


HSS-PM High Performance Machine Tap Blind Hole ISO Metric Fine Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.35	56	5	18	3.5	2.7	2.65	371	97770031	
M 3.5	0.35	56	5	20	4.0	3.0	3.15	371	97770036	
M 4	0.5	63	7	21	4.5	3.4	3.5	371	97770041	
M 5	0.5	70	8	25	6.0	4.9	4.5	371	97770051	
M 6	0.5	80	10	30	6.0	4.9	5.5	371	97770061	
M 6	0.75	80	10	30	6.0	4.9	5.2	371	97770062	
M 8	0.75	80	10	30	6.0	6.2	7.2	371	97770082	
M 8	1.00	90	10	—	6.0	4.9	7.00	374	97770081	
M 10	1.00	90	10	—	7.0	5.5	9.00	374	97770101	
M 10	1.25	100	15	—	7.0	5.5	8.80	374	97770102	
M 12	1.00	100	10	—	9.0	7.0	11.00	374	97770122	
M 12	1.25	100	15	—	9.0	7.0	10.80	374	97770123	
M 12	1.50	100	15	—	9.0	7.0	10.50	374	97770121	
M 14	1.50	100	15	—	11.0	9.0	12.50	374	97770141	
M 16	1.50	100	15	—	12.0	9.0	14.50	374	97770161	
M 18	1.50	110	17	—	14.0	11.0	16.50	374	97770181	
M 20	1.50	125	17	—	16.0	12.0	18.50	374	97770201	
M 22	1.50	125	17	—	18.0	14.5	20.50	374	97770221	
M 24	1.50	140	20	—	18.0	14.5	22.50	374	97770241	

97780



HSS-E
PM



Chamfer
E
1-2

ISO2X
6HX



HSS-PM High Performance Machine Tap Blind Hole ISO Metric Fine Thread DIN-13



Ø d ₁	P	l ₁	l ₂	Ø d ₂	α		DIN	Coated	
								Part No.	
M 8	1.00	90	10	6.0	4.9	7.00	374	97780081	
M 10	1.00	90	10	7.0	5.5	9.00	374	97780101	
M 10	1.25	100	15	7.0	5.5	8.80	374	97780102	
M 12	1.50	100	15	9.0	7.0	10.50	374	97780121	
M 14	1.50	100	15	11.0	9.0	12.50	374	97780141	
M 16	1.50	100	15	12.0	9.0	14.50	374	97780161	

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18-45	18-45	5-25	5-25	5-25	10-40	10-40	5-15

Product family **166**

97785



**HSS-E
PM**



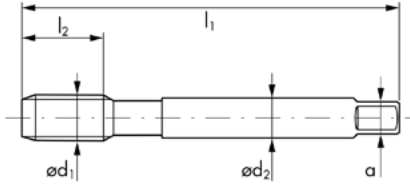
Chamfer
B
3.5–5.5

**ISO2X
6HX**



HSS-PM High Performance Machine Tap Through Hole Whitworth Pipe Thread DIN-ISO 228

DIN-5156



G	Ø d ₁	1°/P	P	l ₁	l ₂	Ø d ₂	α		DIN	Coated
										Part No.
G-1/8	9.728	28	0.907	90	10	7.0	5.5	8.80	5156	97785097
G-1/4	13.157	19	1.337	100	14	11.0	9.0	11.80	5156	97785131
G-3/8	16.662	19	1.337	100	15	12.0	9.0	15.25	5156	97785166
G-1/2	20.955	14	1.814	125	17	16.0	12.0	19.00	5156	97785209
G-5/8	22.911	14	1.814	125	20	18.0	14.5	21.00	5156	97785229
G-3/4	26.441	14	1.814	140	20	20.0	16.0	24.50	5156	97785264
G-7/8	30.201	14	1.814	150	22	22.0	18.0	28.25	5156	97785302
G-1	33.249	11	2.309	160	24	25.0	20.0	30.75	5156	97785332

97790



**HSS-E
PM**



Chamfer
C
< 2.5xD
2–3

**ISO2X
6HX**



HSS-PM High Performance Machine Tap Blind Hole Whitworth Pipe Thread DIN-ISO 228



G	Ø d ₁	1°/P	P	l ₁	l ₂	Ø d ₂	α		DIN	Coated
										Part No.
G-1/8	9.728	28	0.907	90	10	7.0	5.5	8.80	5156	97790097
G-1/4	13.157	19	1.337	100	14	11.0	9.0	11.80	5156	97790131
G-3/8	16.662	19	1.337	100	15	12.0	9.0	15.25	5156	97790166
G-1/2	20.955	14	1.814	125	17	16.0	12.0	19.00	5156	97790209
G-5/8	22.911	14	1.814	125	20	18.0	14.5	21.00	5156	97790229
G-3/4	26.441	14	1.814	140	20	20.0	16.0	24.50	5156	97790264
G-7/8	30.201	14	1.814	150	22	22.0	18.0	28.25	5156	97790302
G-1	33.249	11	2.309	160	24	25.0	20.0	30.75	5156	97790332

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18–45	18–45	5–25	5–25	5–25	10–40	10–40	5–15

NEW

97781



HSS-E
PM



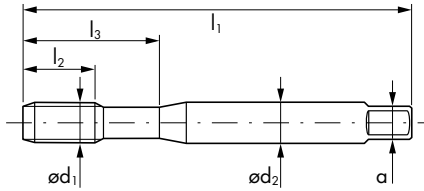
Chamfer
B
3.5-5.5

2BX

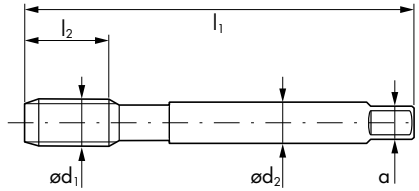


HSS-PM High Performance Machine Tap Through Hole UNC Coarse Thread ANSI B-1.1

DIN-371



DIN-374 / DIN-376



UNC	Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated
										Part No.
No 4-40	2.844	0.635	56	5	18	3.5	2.7	2.35	371	97781028
No 5-40	3.175	0.635	56	7	18	3.5	2.7	2.65	371	97781031
No 6-32	3.505	0.794	56	6	20	4.0	3.0	2.85	371	97781035
No 8-32	4.165	0.794	63	7	21	4.5	3.4	3.50	371	97781041
No 10-24	4.826	1.058	70	8	25	6.0	4.9	3.90	371	97781048
No 12-24	5.486	1.058	80	10	30	6.0	4.9	4.50	371	97781054
1/4-20	6.350	1.270	80	13	30	7.0	5.5	5.10	371	97781063
5/16-18	7.938	1.411	90	13	35	8.0	6.0	6.60	371	97781079
3/8-16	9.525	1.588	100	15	39	10.0	8.0	8.0	371	97781095
7/16-14	11.112	1.814	100	15	—	8.0	6.2	9.40	376	97781111
1/2-13	12.700	1.954	110	18	—	9.0	7.0	10.80	376	97781127
9/6-12	14.288	2.117	110	20	—	11.0	9.0	12.20	376	97781142
5/8-11	15.875	2.309	110	22	—	12.0	9.0	13.50	376	97781158

NEW

97782



HSS-E
PM



Chamfer
C
2-3

2BX



HSS-PM High Performance Machine Tap Blind Hole UNC Coarse Thread ANSI B-1.1



UNC	Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated
										Part No.
No 4-40	2.844	0.635	56	5	18	3.5	2.7	2.35	371	97782028
No 5-40	3.175	0.635	56	7	18	3.5	2.7	2.65	371	97782031
No 6-32	3.505	0.794	56	6	20	4.0	3.0	2.85	371	97782035
No 8-32	4.165	0.794	63	7	21	4.5	3.4	3.50	371	97782041
No 10-24	4.826	1.058	70	8	25	6.0	4.9	3.90	371	97782048
No 12-24	5.486	1.058	80	10	30	6.0	4.9	4.50	371	97782054
1/4-20	6.350	1.270	80	13	30	7.0	5.5	5.10	371	97782063
5/16-18	7.938	1.411	90	13	35	8.0	6.0	6.60	371	97782079
3/8-16	9.525	1.588	100	15	39	10.0	8.0	8.0	371	97782095
7/16-14	11.112	1.814	100	15	—	8.0	6.2	9.40	376	97782111
1/2-13	12.700	1.954	110	18	—	9.0	7.0	10.80	376	97782127
9/6-12	14.288	2.117	110	20	—	11.0	9.0	12.20	376	97782142
5/8-11	15.875	2.309	110	22	—	12.0	9.0	13.50	376	97782158

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18 – 45	18 – 45	5 – 25	5 – 25	5 – 25	10 – 40	10 – 40	5 – 15

Product family 166

NEW

97783



HSS-E
PM

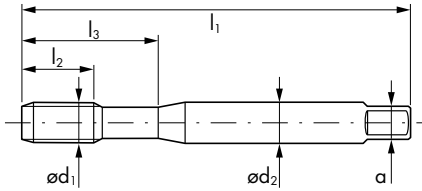


2BX

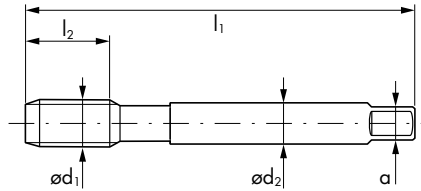


HSS-PM High Performance Machine Tap Through Hole UNF Fine Thread ANSI B-1.1

DIN-371



DIN-374 / DIN-376



UNF	Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
											Part No.
No 4-48	2.844	0.529	56	5	18	3.5	2.7	2.40	371		97783028
No 5-44	3.175	0.557	56	7	18	3.5	2.7	2.70	371		97783031
No 6-40	3.505	0.635	56	6	20	4.0	3.0	2.95	371		97783035
No 8-36	4.165	0.705	63	7	21	4.5	3.4	3.50	371		97783041
No 10-32	4.826	0.794	70	8	25	6.0	4.9	4.10	371		97783048
No 12-28	5.486	0.907	80	10	30	6.0	4.9	4.60	371		97783054
1/4-28	6.350	0.907	80	10	30	7.0	5.5	5.50	371		97783063
5/16-24	7.938	1.058	90	13	35	8.0	6.0	6.90	371		97783079
3/8-24	9.525	1.058	100	15	39	10.0	8.0	8.50	371		97783095
7/16-20	11.112	1.270	100	15	—	8.0	6.2	9.90	374		97783111
1/2-20	12.700	1.270	100	15	—	9.0	7.0	11.50	374		97783127
9/6-18	14.288	1.411	100	15	—	11.0	9.0	12.90	374		97783142
5/8-18	15.875	1.411	100	15	—	12.0	9.0	14.50	374		97783158

NEW

97784



HSS-E
PM



2BX



HSS-PM High Performance Machine Tap Blind Hole UNF Fine Thread ANSI B-1.1



UNF	Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
											Part No.
No 4-48	2.844	0.529	56	5	18	3.5	2.7	2.40	371		97784028
No 5-44	3.175	0.557	56	7	18	3.5	2.7	2.70	371		97784031
No 6-40	3.505	0.635	56	6	20	4.0	3.0	2.95	371		97784035
No 8-36	4.165	0.705	63	7	21	4.5	3.4	3.50	371		97784041
No 10-32	4.826	0.794	70	8	25	6.0	4.9	4.10	371		97784048
No 12-28	5.486	0.907	80	10	30	6.0	4.9	4.60	371		97784054
1/4-28	6.350	0.907	80	10	30	7.0	5.5	5.50	371		97784063
5/16-24	7.938	1.058	90	13	35	8.0	6.0	6.90	371		97784079
3/8-24	9.525	1.058	100	15	39	10.0	8.0	8.50	371		97784095
7/16-20	11.112	1.270	100	15	—	8.0	6.2	9.90	374		97784111
1/2-20	12.700	1.270	100	15	—	9.0	7.0	11.50	374		97784127
9/6-18	14.288	1.411	100	15	—	11.0	9.0	12.90	374		97784142
5/8-18	15.875	1.411	100	15	—	12.0	9.0	14.50	374		97784158

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Stainless steel	Cast iron	Aluminium alloys	Nickel alloys
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 1000 N/mm ²	< 850 N/mm ²	< 600 N/mm ²	< 1300 N/mm ²
V _c (m/min)	18 – 45	18 – 45	5 – 25	5 – 25	5 – 25	10 – 40	10 – 40	5 – 15

97100



HSS-E



Chamfer B
3.5-5.5

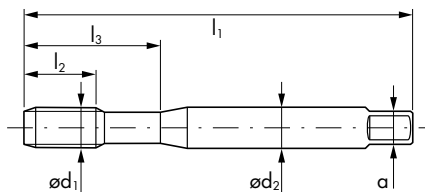
ISO2
6H

TiN

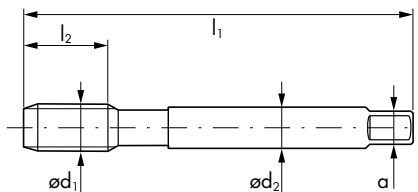
P M K
N S H

HSS-E Machine Tap Through Hole ISO Metric Coarse Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.50	56	10	18	3.5	2.7	2.50	371		97100030
M 4	0.70	63	12	21	4.5	3.4	3.30	371		97100040
M 5	0.80	70	14	25	6.0	4.9	4.20	371		97100050
M 6	1.00	80	18	30	6.0	4.9	5.00	371		97100060
M 8	1.25	90	20	35	8.0	6.2	6.80	371		97100080
M 10	1.50	100	20	39	10.0	8.0	8.50	371		97100100
M 12	1.75	110	24	—	9.0	7.0	10.20	376		97100120
M 14	2.00	110	25	—	11.0	9.0	12.00	376		97100140
M 16	2.00	110	32	—	12.0	9.0	14.00	376		97100160
M 18	2.50	125	32	—	14.0	11.0	15.50	376		97100180
M 20	2.50	140	32	—	16.0	12.0	17.50	376		97100200
M 22	2.50	140	32	—	18.0	14.5	19.50	376		97100220
M 24	3.00	160	38	—	18.0	14.5	21.00	376		97100240
M 27	3.00	160	38	—	20.0	16.0	24.00	376		97100270
M 30	3.50	180	45	—	22.0	18.0	26.50	376		97100300

97110



HSS-E



Chamfer C
< 2.5xD
2-3

ISO2
6H

TiN

P M K
N S H

HSS-E Machine Tap Blind Hole ISO Metric Coarse Thread DIN-13



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 3	0.50	56	5	18	3.5	2.7	2.50α	371		97110030
M 4	0.70	63	7	21	4.5	3.4	3.30	371		97110040
M 5	0.80	70	8	25	6.0	4.9	4.20	371		97110050
M 6	1.00	80	10	30	6.0	4.9	5.00	371		97110060
M 8	1.25	90	13	35	8.0	6.2	6.80	371		97110080
M 10	1.50	100	15	39	10.0	8.0	8.50	371		97110100
M 12	1.75	110	18	—	9.0	7.0	10.20	376		97110120
M 14	2.00	110	20	—	11.0	9.0	12.00	376		97110140
M 16	2.00	110	20	—	12.0	9.0	14.00	376		97110160
M 18	2.50	125	25	—	14.0	11.0	15.50	376		97110180
M 20	2.50	140	25	—	16.0	12.0	17.50	376		97110200
M 22	2.50	140	25	—	18.0	14.5	19.50	376		97110220
M 24	3.00	160	30	—	18.0	14.5	21.00	376		97110240
M 27	3.00	160	30	—	20.0	16.0	24.00	376		97110270
M 30	3.50	180	35	—	22.0	18.0	26.50	376		97110300

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Cast iron
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 850 N/mm ²
V _c (m/min)	10-30	10-30	5-15	5-15	15-30

Product family 167

97120



HSS-E

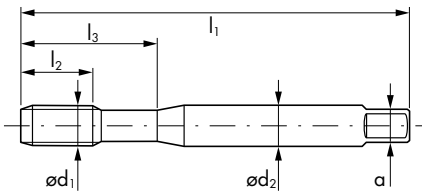


ISO2
6H

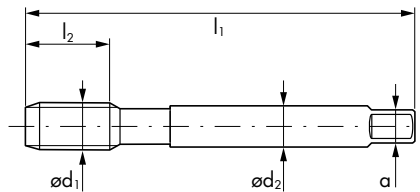


HSS-E Machine Tap Through Hole ISO Metric Fine Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	Ø d ₂	a		DIN	Coated	
								Part No.	
M 8	1.00	90	20	6.0	4.9	7.00	371	97120081	
M 10	1.00	90	20	7.0	5.5	9.00	371	97120101	
M 10	1.25	100	20	7.0	5.5	8.80	371	97120102	
M 12	1.50	100	20	9.0	7.0	10.50	374	97120121	
M 14	1.50	100	20	11.0	9.0	12.50	374	97120141	
M 16	1.50	100	20	12.0	9.0	14.50	374	97120161	

97130



HSS-E



ISO2
6H



HSS-E Machine Tap Blind Hole ISO Metric Fine Thread DIN-13



Ø d ₁	P	l ₁	l ₂	Ø d ₂	a		DIN	Coated	
								Part No.	
M 8	1.00	90	10	6.0	4.9	7.00	371	97130081	
M 10	1.00	90	13	7.0	5.5	9.00	371	97130101	
M 10	1.25	100	15	7.0	5.5	8.80	371	97130102	
M 12	1.50	100	5	9.0	7.0	10.50	374	97130121	
M 14	1.50	100	7	11.0	9.0	12.50	374	97130141	
M 16	1.50	100	8	12.0	9.0	14.50	374	97130161	

Material	Structural steels / free machining steels	Low-alloy steel	Tool steel	High-alloy steel	Cast iron
Tensile strength / Hardness	< 850 N/mm ²	< 900 N/mm ²	< 1000 N/mm ²	< 1250 N/mm ²	< 850 N/mm ²
V _c (m/min)	10–30	10–30	5–15	5–15	15–30

97140



HSS-E



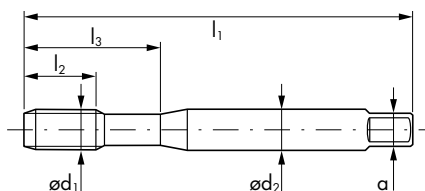
Chamfer B
3,5-5,5

ISO2
6H

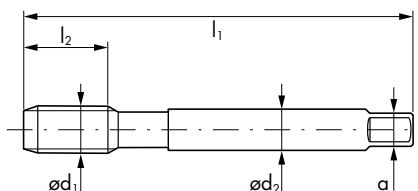


HSS-E Machine Tap Through Hole ISO Metric Coarse Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 2	0.40	45	8	12	2.8	2.1	1.60	371		97140020
M 3	0.50	56	10	18	3.5	2.7	2.50	371		97140030
M 4	0.70	63	12	21	4.5	3.4	3.30	371		97140040
M 5	0.80	70	14	25	6.0	4.9	4.20	371		97140050
M 6	1.00	80	18	30	6.0	4.9	5.00	371		97140060
M 8	1.25	90	20	35	8.0	6.2	6.80	371		97140080
M 10	1.50	100	20	39	10.0	8.0	8.50	371		97140100
M 12	1.75	110	29	—	9.0	7.0	10.20	376		97140120
M 14	2.00	110	30	—	11.0	9.0	12.00	376		97140140
M 16	2.00	110	32	—	12.0	9.0	14.00	376		97140160
M 20	2.50	140	34	—	16.0	12.0	17.50	376		97140200
M 24	3.00	160	38	—	18.0	14.5	21.00	376		97140240
M 30	3.50	180	45	—	22.0	18.0	26.50	376		97140300

97150



HSS-E



Chamfer C
< 2.5xD
2-3

ISO2
6H



HSS-E Machine Tap Blind Hole ISO Metric Coarse Thread DIN-13



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	α		DIN	Coated	
									Part No.	
M 2	0.40	45	8	12	2.8	2.1	1.60	371		97150020
M 3	0.50	56	5	18	3.5	2.7	2.50	371		97150030
M 4	0.70	63	7	21	4.5	3.4	3.30	371		97150040
M 5	0.80	70	8	25	6.0	4.9	4.20	371		97150050
M 6	1.00	80	10	30	6.0	4.9	5.00	371		97150060
M 8	1.25	90	13	35	8.0	6.2	6.80	371		97150080
M 10	1.50	100	15	39	10.0	8.0	8.50	371		97150100
M 12	1.75	110	18	—	9.0	7.0	10.20	376		97150120
M 16	2.00	110	20	—	12.0	9.0	14.00	376		97150160
M 20	2.50	140	25	—	16.0	12.0	17.50	376		97150200
M 24	3.00	160	30	—	18.0	14.5	21.00	376		97150240
M 30	3.50	180	35	—	22.0	18.0	26.50	376		97150300

Material	Stainless steel	Stainless steel
Tensile strength / Hardness	< 750 N/mm ²	< 1000 N/mm ²
V _c (m/min)	10-30	10-25

Product family **167**

97160



HSS-E



Chamfer B
3.5–5.5

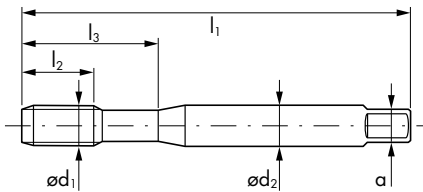
**ISO2
6H**

Hardlube

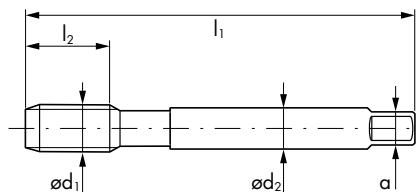


HSS-E Machine Tap Through Hole ISO Metric Fine Thread DIN-13

DIN-371



DIN-374 / DIN-376



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	a		DIN	Coated	
									Part No.	
M 4	0.50	63	10	21	4.5	3.4	3.50	371		97160041
M 6	0.75	80	14	30	6.0	4.9	5.20	371		97160061
M 8	1.00	90	20	30	8.0	6.2	7.00	371		97160081
M 10	1.00	90	20	35	10.0	8.0	9.00	371		97160101
M 12	1.00	100	20	–	9.0	7.0	11.00	374		97160121
M 12	1.50	100	20	–	9.0	7.0	10.50	374		97160122
M 14	1.25	100	20	–	11.0	9.0	12.80	374		97160141
M 16	1.50	100	20	–	12.0	9.0	14.50	374		97160161
M 18	1.50	110	24	–	14.0	11.0	16.50	374		97160181
M 20	1.00	125	24	–	16.0	12.0	19.00	374		97160201
M 20	2.00	140	32	–	16.0	12.0	18.00	374		97160202
M 22	1.50	125	24	–	18.0	14.5	20.50	374		97160221
M 24	2.00	140	45	–	18.0	14.5	22.00	374		97160241

97170



HSS-E



Chamfer C
< 2.5xD
2–3

**ISO2
6H**

Hardlube



HSS-E Machine Tap Blind Hole ISO Metric Fine Thread DIN-13



Ø d ₁	P	l ₁	l ₂	l ₃	Ø d ₂	a		DIN	Coated	
									Part No.	
M 4	0.50	63	7	21	4.5	3.4	3.50	371		97170041
M 6	0.75	80	10	30	6.0	4.9	5.20	371		97170061
M 8	1.00	90	13	35	8.0	6.2	7.00	371		97170081
M 10	1.00	90	13	35	10.0	8.0	9.00	371		97170101
M 12	1.00	100	10	–	9.0	7.0	11.00	374		97170121
M 12	1.50	100	15	–	9.0	7.0	10.50	374		97170122
M 14	1.25	100	15	–	11.0	9.0	12.80	374		97170141
M 16	1.50	100	15	–	12.0	9.0	14.50	374		97170161
M 18	1.50	110	17	–	14.0	11.0	16.50	374		97170181
M 20	1.00	125	10	–	16.0	12.0	19.00	374		97170201
M 20	2.00	140	17	–	16.0	12.0	18.00	374		97170202
M 22	1.50	125	17	–	18.0	14.5	20.50	374		97170221
M 24	2.00	140	20	–	18.0	14.5	22.00	374		97170241

Material	Stainless steel	Stainless steel
Tensile strength / Hardness	< 750 N/mm ²	< 1000 N/mm ²
V _c (m/min)	10–30	10–25

Notes

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

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General Terms and Conditions

§ 1 Scope of application – Privacy

1. Our General Terms and Conditions shall apply exclusively to all our deliveries and services including any associated consulting and information. We do not accept any conflicting Terms and Conditions or any Terms that differ from our Terms unless we had approved their validity in writing.
2. Our Terms and Conditions shall also apply, if we fully execute delivery to the customer knowing any conflicting or differing Terms and Conditions of the customer.
3. These Terms shall also apply to all future contractual relations with companies according to § 310 BGB (German Civil Code). Terms and Conditions that are identified as such shall also apply to them.
4. Within a business relationship between entrepreneurs, receipt of our deliveries and services implies that the customer accepts the legal validity of our Terms and Conditions. Any agreements including collateral agreements that differ from our Terms and Conditions or contain any kind of confirmation from our side shall only be effective in writing.
5. Customer information will be saved (acc. to Sections 28, 33 BDSG, German Federal Data Protection Act).

§ 2 Quotations – Conclusion of the contract

1. The customer's order shall be binding. Upon our choice, we shall be entitled to accept this order within 14 days by providing an order confirmation or by shipping the ordered goods.
2. Our quotations in business transactions with companies shall always be non-binding unless otherwise provided in the order confirmation. Oral agreements and confirmations only apply if we have confirmed the same in writing.

§ 3 Prices – Delivery and payment terms

1. Unless another price agreement has been agreed upon in written form, our prices are net plus applicable VAT according to our latest catalogues and price lists valid on the day of order. Catalogues and price lists are accessible at our premises or can be ordered from us.
2. Our deliveries are supplied carriage paid including packaging from an net order value of € 200,00. Any other orders will be shipped at the owner's expense.
3. Unless otherwise agreed, our invoices are payable within 8 days from date of invoice with 2% discount or 30 days net. Checks and payment orders will only be accepted on account of performance. Payment shall be deemed completed when the amount is credited to our account.
4. The customer is in default at the latest, if he fails to pay within 30 days when an invoice is due or after the receipt of the invoice or another payment schedule. Thereupon, we shall be entitled to charge the applicable default interest and charge € 10,00 for each payment reminder. We shall reserve the right to furnish proof of higher damage caused by default.
5. Any discounts or periods allowed for payment granted by us can be refused if the customer defaults on payment of previous invoices or following filings for insolvency. In these cases we shall be entitled to declare all due as well as any deferred invoice amounts immediately payable. In such cases, delivery of ordered goods will only be made on cash payment.
6. Set off rights can only be granted to the Buyer, if his counter claims have been stated legally binding, undisputed or recognized by our company. The customer's rights of retention only exist for counter claims resulting from the same contractual relationship.
7. In the case of the case of returned goods, we shall be entitled to retain a fee of 20% of the goods value as contribution to the coverage of costs. We can only take back tools in good order and condition and without any labels or with the TOOL FACTORY label only. Special tools and products with customized labelling are excluded from return. If the return shall be due to a fault of TOOL FACTORY, the take-back is free of charge to the customer. Only tools delivered within the last 6 months can be returned.

§ 4 Delivery terms – Receipt of the goods

1. Delivery times or dates shall only be binding upon agreement in writing.
2. Particularly in the case of larger deliveries, we shall be entitled for part-in deliveries to an extent that is reasonable for the customer.
3. As long as the customer is in delay with trade accounts payable, our obligation to deliver is in rest.
4. From our part, delivery term shall be deemed complied when the delivered goods have been sent to the customer prior to its expiry. The delivery period shall be reasonably extended against the background of measures taken within the scope of industrial action, particularly with regard to strikes and lockouts, as well as upon the occurrence of unforeseeable obstacles that are beyond our will, as far as such obstacles have a provable material influence on the delivery objects' completion or delivery. This shall also apply to circumstances which may occur at sub-suppliers. The aforementioned circumstances shall also be deemed to be beyond our control if they arise from a pre-existing delay. In important cases, we will inform the customer as soon as possible of the beginning and the end of such circumstances. If delivery or performance is rendered impossible or unreasonable by virtue of the indicated circumstances, we are relieved from the delivery obligation.
5. If we are in default towards companies due to reasons for which we bear responsibility, the client is entitled to a reimbursement for damages caused by arrears to the sum of 1% of the value of the declared value of goods for each full week of the delay, limited however to a maximum of 15% of the value of goods. Any additional claims due to delay of delivery are exclusively subject to § 8 of these Conditions.
6. If we are in default and if the customer – under the consideration of the statutory exceptions – grants to us a reasonable period of time for performance and if this period of time is not adhered to, the customer shall be entitled to withdrawal in accordance with statutory regulations. Any additional claims due to delay of delivery are exclusively subject to § 8 of these Conditions.
7. If the customer defaults in taking delivery or infringes other duties to cooperate, we shall be entitled to claim compensation for the damage suffered by us, including any additional expenses. In this case, the risk of accidental loss or of accidental degradation of the item purchased shall transfer to the customer at the time the customer falls into default of acceptance.
8. Where the customer does not accept the goods within the extension period, we are entitled, to

request compensation for damages without any special proof due to non-fulfilment to an amount of 20% of the rejected goods value, as well as the incurred shipping cost plus applicable VAT. Both the customer and we reserve the right to provide evidence of higher or lower damages in the individual case.

§ 5 Transfer of risk – Dispatch

1. The goods shall be delivered or dispatched at the customer's risk in any case. Type and route of dispatch are left to us, unless otherwise agreed upon. As soon as the goods have been handed over to the forwarder/carrier, or, at the latest, when they have left our warehouse, the risk for the goods shall pass on to the customer.
2. If dispatch is delayed due to circumstances for which the customer bears responsibility, then the risk shall be transferred to the customer from the day on which the goods are ready for dispatch.
3. Delivered items shall be accepted by the customer even if there is evidence of minor faults, regardless of the rights arising from § 7.

§ 6 Retention of title

1. We shall retain full title of the goods that have been delivered in accordance with the delivery contract until the receipt of the full payment.
2. If the realisable value of the securities held by us exceeds the total value of our claims by more than 20%, we shall be obliged by request of the customer to the release of securities of our own choice.
3. The customer must inform us immediately in writing in relation to any attachments asserted by third parties, or any other such interventions, and it is also required to inform the attaching creditor of the existence of the retention of title.
4. In case of breach of contract by the client, in particular in case of default of payment, we shall be entitled to take back the object of sale. Our repossession of the object of sale shall not constitute a withdrawal from the contract, unless we make explicit written declaration thereof or imperative provisions of the consumer credit act shall apply to the contract. If we obtain the attachment of the object of sale this shall always be construed as a cancellation of the contract. We shall be entitled to re-market goods taken back from the company by implementing a resale at our sole discretion, provided that we have given advance reasonable notice of the threat of resale. After taking back the purchased goods, we shall be entitled to dispose of them. We shall offset the proceeds from such a sale against the client's liabilities, less appropriate administrative cost, in general 10% of the goods value.
5. If we are entitled to take back the goods, the customer is obliged to enable one of our employees to perform a stock check of the reserved goods.

§ 7 Defects of quality

1. We bear liability for defects as to quality as follows: All those parts which within the limitation period prove to have a defect, shall at our choice and at no expense to us be either repaired, delivered anew or performed again, insofar as the cause for the defect existed at the time of the transfer of risk.
2. The customer shall notify us in writing of any defects of quality immediately after their discovery.
3. If notice is given of defects, payments by the customer shall only be retained to such extent as is justified in proportion to the defects that have occurred. The customer may withhold payments only if the complaint as to defects is justified and incontestable. If the complaint is unjustified, we shall be entitled to demand from the customer reimbursement of the incurred expenses.
4. First, we must get the opportunity to provide subsequent fulfilment within a reasonable period.
5. If the subsequent fulfilment fails, the customer may withdraw from the contract or reduce the remuneration irrespective of any eventual indemnification claims pursuant to § 8.
6. There shall be no claims for defects where the discrepancy from the agreed condition is insignificant, where the impairment of use is insignificant, where there is normal wear and tear or where damages arise after the passing of risk as a consequence of incorrect or careless handling, excessive operational demands, unsuitable equipment or as a consequence of special exterior influences which in the agreement were not assumed. If improper modifications are made by the customer or third parties, they are not entitled to assert claims for damages on these goods and the consequences resulting thereof.
7. Claims by the customer concerning the expenses necessary for the purpose of supplementary performance, in particular costs of transport, travel, labour and material are precluded insofar as the expenses have risen because the delivery item has been moved to a different location subsequently, unless the move conforms to its intended use.

§ 8 Other claims for damages

1. Claims to damages and reimbursement of expenditure of the customer (hereinafter claims to damages), shall be excluded irrespective of their legal basis, including, but not limited to, the breach of duties under the law of obligations and under tort.
2. Claims for damages due to the infringement of material contractual duties, however, shall be limited to contract-typical, predictable damages, provided there is no intent or gross negligence, or that liability is assumed on account of damage to life, physical injury or damage to health. A change of the burden of proof to the disadvantage of the client is not associated with the aforementioned conditions.
3. Insofar as the customer is entitled to claims for damages in accordance with this section, they become statute-barred according to § 7 art. 2 of these conditions after the expiration of the limitation period applicable for claims for defects of quality. The legal provisions for limitation periods shall apply to claims for damage in accordance with the German product liability law.

§ 9 Place of fulfilment and court of jurisdiction

1. Though we ship the goods to the customer, our registered office shall remain the place of fulfilment.
2. Provided the customer is a company (entrepreneur), the court of jurisdiction shall be our registered office, however, upon our choice, also the company's registered office.

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