

OUTILS POUR FILETAGE

TOOLS FOR THREADS



SÉLECTION
2 0 1 8

REF.FANAR	DESIGNATION	CODE	PRIX	PAGE
800XTN				
C2-113X01-0030	TAR GUN M3,0x05 HSSE B - TN	045362	12,31	P13
C2-113X01-0040	TAR GUN M4,0x07 HSSE B - TN	045364	12,50	P13
C2-113X01-0050	TAR GUN M5,0x08 HSSE B - TN	045367	13,51	P13
C2-113X01-0060	TAR GUN M6,0x10 HSSE B - TN	045369	13,99	P13
C2-113X01-0080	TAR GUN M8,0x12,5 HSSE B - TN	045372	16,73	P13
C2-113X01-0083	TAR GUN M8,0x10 HSSE B - TN	045486	20,63	P13
C2-113X01-0100	TAR GUN M10,0x1,5 HSSE B - TN	045376	21,96	P13
C2-113X01-0103	TAR GUN M10,0x1,0 HSSE B - TN	045487	25,35	P13
C2-113X01-0104	TAR GUN M10,0x1,25 HSSE B - TN	045488	28,72	P13
C2-513X01-0030	TAR HEL40° M3,0x0,5 HSSE C - TN	045751	13,35	P13
C2-513X01-0040	TAR HEL40° M4,0x0,7 HSSE C - TN	045753	13,57	P13
C2-513X01-0050	TAR HEL40° M5,0x0,8 HSSE C - TN	045756	14,62	P13
C2-513X01-0060	TAR HEL40° M6,0x1 HSSE C - TN	045758	15,09	P13
C2-513X01-0080	TAR HEL40° M8,0x1,25 HSSE C - TN	045761	18,02	P13
C2-513X01-0083	TAR HEL40° M8,0x1,0 HSSE C - TN	045492	22,35	P13
C2-513X01-0100	TAR HEL40° M10,0x1,5 HSSE C - TN	045765	23,59	P13
C2-513X01-0103	TAR HEL40° M10,0x1,0 HSSE C - TN	045493	27,30	P13
C2-513X01-0104	TAR HEL40° M10,0x1,25 HSSE C - TN	045494	30,99	P13
D2-113X01-0120	TAR GUN M12,0x1,75 HSSE B - TN	045389	30,56	P13
D2-113X01-0125	TAR GUN M12,0x1,5 HSSE B - TN	045489	35,31	P13
D2-113X01-0140	TAR GUN M14,0x2,0 HSSE B - TN	045393	40,37	P13
D2-113X01-0145	TAR GUN M14,0x1,5 HSSE B - TN	045490	46,86	P13
D2-113X01-0165	TAR GUN M16,0x1,5 HSSE B - TN	045491	48,98	P13
D2-113X01-0180	TAR GUN M18,0x2,5 HSSE B - TN	045402	59,46	P13
D2-113X01-0200	TAR GUN M20,0x2,5 HSSE B - TN	045406	64,94	P13
D2-113X01-0220	TAR GUN M22,0x2,5 HSSE B - TN	045410	87,85	P13
D2-113X01-0240	TAR GUN M24,0x3,0 HSSE B - TN	045414	89,27	P13
D2-113X01-0270	TAR GUN M27,0x3,0 HSSE B - TN	045420	117,84	P13
D2-113X01-0300	TAR GUN M30,0x3,5 HSSE B - TN	045425	134,06	P13
D2-113X01-0330	TAR GUN M33,0x3,5 HSSE B - TN	045430	192,43	P13
D2-113X01-0360	TAR GUN M36,0x4,0 HSSE B - TN	045435	259,14	P13
D2-513X01-0120	TAR HEL40° M12,0x1,75 HSSE B - TN	045778	32,95	P13
D2-513X01-0125	TAR HEL40° M12,0x1,5 HSSE C - TN	045495	38,14	P13
D2-513X01-0140	TAR HEL40° M14,0x2,0 HSSE B - TN	045782	43,63	P13
D2-513X01-0145	TAR HEL40° M14,0x1,5 HSSE C - TN	045496	50,75	P13
D2-513X01-0160	TAR HEL40° M16,0x2,0 HSSE B - TN	045787	47,22	P13
D2-513X01-0165	TAR HEL40° M16,0x1,5 HSSE C - TN	045497	52,98	P13
D2-513X01-0180	TAR HEL40° M18,0x2,5 HSSE B - OX	045790	64,22	P13
D2-513X01-0200	TAR HEL40° M20,0x2,5 HSSE B - TN	045794	70,05	P13
D2-513X01-0220	TAR HEL40° M22,0x2,5 HSSE B - TN	045798	95,07	P13
D2-513X01-0240	TAR HEL40° M24,0x3,0 HSSE B - TN	045802	96,00	P13
D2-513X01-0270	TAR HEL40° M27,0x3,0 HSSE B - TN	045808	123,12	P13
D2-513X01-0300	TAR HEL40° M30,0x3,5 HSSE B - TN	045813	144,52	P13
D2-513X01-0330	TAR HEL40° M33,0x3,5 HSSE B - TN	045818	198,00	P13
D2-513X01-0360	TAR HEL40° M36,0x4,0 HSSE B - TN	045823	280,12	P13
INOXOX				
C2-116801-0020	TAR GUN M2,6x0,45 HSSE B - OX	045468	17,38	P14
C2-116801-0030	TAR GUN M3,0x0,5 HSSE B - OX	045458	10,94	P14
C2-116801-0035	TAR GUN M3,5x0,6 HSSE B - OX	045469	13,13	P14
C2-116801-0040	TAR GUN M4,0x0,7 HSSE B - OX	045460	11,07	P14
C2-116801-0045	TAR GUN M4,5x0,75 HSSE B - OX	045461	17,80	P14
C2-116801-0050	TAR GUN M5,0x0,8 HSSE B - OX	045462	11,71	P14
C2-116801-0060	TAR GUN M6,0x1,0 HSSE B - OX	045463	11,71	P14
C2-116801-0070	TAR GUN M7,0x1,0 HSSE B - OX	045464	16,59	P14
C2-116801-0080	TAR GUN M8,0x1,25 HSSE B - OX	045465	13,64	P14
C2-116801-0090	TAR GUN M9,0x1,25 HSSE B - OX	045466	22,19	P14
C2-116801-0100	TAR GUN M10,0x1,5 HSSE B - OX	045467	17,46	P14

REF.FANAR	DESIGNATION	CODE	PRIX	PAGE
FAN TICN				
C4-115001-0030	TAR GUN TICN C4-115001 M3-F	047780	13,86	P14
C4-115001-0040	TAR GUN TICN C4-115001 M4-F	047781	14,07	P14
C4-115001-0050	TAR GUN TICN C4-115001 M5-F	047782	15,19	P14
C4-115001-0060	TAR GUN TICN C4-115001 M6-F	047783	15,67	P14
C4-115001-0080	TAR GUN TICN C4-115001 M8-F	047785	18,80	P14
C4-115001-0100	TAR GUN TICN C4-115001 M10-F	047787	24,66	P14
INOXOX				
D2-116801-0120	TAR GUN M12,0x1,75 HSSE B - OX	045470	24,72	P15
D2-116801-0140	TAR GUN M14,0x2,0 HSSE B - OX	045471	33,81	P15
D2-116801-0160	TAR GUN M16,0x2,0 HSSE B - OX	045472	36,15	P15
D2-116801-0180	TAR GUN M18,0x2,5 HSSE B - OX	045473	49,67	P15
D2-116801-0200	TAR GUN M20,0x2,5 HSSE B - OX	045474	52,55	P15
D2-116801-0220	TAR GUN M22,0x2,5 HSSE B - OX	045475	74,94	P15
D2-116801-0240	TAR GUN M24,0x3,0 HSSE B - OX	045476	69,42	P15
D2-116801-0270	TAR GUN M27,0x3,0 HSSE B - OX	045477	92,91	P15
D2-116801-0300	TAR GUN M30,0x3,5 HSSE B - OX	045478	109,01	P15
D2-116801-0330	TAR GUN M33,0x3,5 HSSE B - OX	045479	160,30	P15
D2-116801-0360	TAR GUN M36,0x4,0 HSSE B - OX	045480	217,96	P15
FAN TICN				
D4-115001-0120	TAR GUN TICN D4-115001 M12-F	047789	34,31	P15
D4-115001-0140	TAR GUN TICN D4-115001 M14-F	047791	45,38	P15
D4-115001-0160	TAR GUN TICN D4-115001 M16-F	047793	49,19	P15
D4-115001-0180	TAR GUN TICN D4-115001 M18-F	047795	66,89	P15
D4-115001-0200	TAR GUN TICN D4-115001 M20-F	047797	73,02	P15
INOXOX				
C2-516801-0030	TAR HEL40° M3,0x0,5 HSSE C - OX	045844	12,01	P16
C2-516801-0035	TAR HEL40° M3,5x0,6 HSSE C - OX	045845	14,37	P16
C2-516801-0040	TAR HEL40° M4,0x0,7 HSSE C - OX	045846	12,22	P16
C2-516801-0050	TAR HEL40° M5,0x0,8 HSSE C - OX	045848	12,86	P16
C2-516801-0060	TAR HEL40° M6,0x1 HSSE C - OX	045849	12,86	P16
C2-516801-0070	TAR HEL40° M7,0x1,1 HSSE C - OX	045850	18,32	P16
C2-516801-0080	TAR HEL40° M8,0x1,25 HSSE C - OX	045851	14,96	P16
C2-516801-0100	TAR HEL40° M10,0x1,5 HSSE C - OX	045853	19,17	P16
C4-516801-0025	TAR HEL40° M2,5x0,45 HSSE C - OX	045842	22,74	P16
INOXHL				
C4-518801-0020	TAR HEL40° M2,0x0,4 HSSE C - HL	045620	20,90	P16
FAN TICN				
C4-565001-0030	TAR TH40 TICN C4-565001 M3-F	047832	15,07	P17
C4-565001-0040	TAR TH40 TICN C4-565001 M4-F	047833	15,28	P17
C4-565001-0050	TAR TH40 TICN C4-565001 M5-F	047834	16,49	P17
C4-565001-0060	TAR TH40 TICN C4-565001 M6-F	047835	16,99	P17
C4-565001-0080	TAR TH40 TICN C4-565001 M8-F	047836	21,87	P17
C4-565001-0100	TAR TH40 TICN C4-565001 M10-F	047837	26,50	P17
INOXOX				
D2-516801-0120	TAR HEL40° M12,0x1,75 HSSE B - TN	045856	27,20	P18
D2-516801-0140	TAR HEL40° M14,0x2,0 HSSE B - TN	045857	37,20	P18
D2-516801-0160	TAR HEL40° M16,0x2,0 HSSE B - TN	045858	39,76	P18
D2-516801-0180	TAR HEL40° M18,0x2,5 HSSE B - TN	045859	54,66	P18
D2-516801-0200	TAR HEL40° M20,0x2,5 HSSE B - TN	045860	57,82	P18
D2-516801-0220	TAR HEL40° M22,0x2,5 HSSE B - TN	045861	82,46	P18
D2-516801-0240	TAR HEL40° M24,0x3,0 HSSE B - TN	045862	76,41	P18
D2-516801-0270	TAR HEL40° M27,0x3,0 HSSE B - TN	045863	102,27	P18
D2-516801-0300	TAR HEL40° M30,0x3,5 HSSE B - TN	045864	119,87	P18
D2-516801-0330	TAR HEL40° M33,0x3,5 HSSE B - TN	045865	176,40	P18
D2-516801-0360	TAR HEL40° M36,0x4,0 HSSE B - TN	045866	239,76	P18

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1400 TICN				
D4-505901-0120	TAR TH15 TICN D4-505901 M12F	047704	39,94	P19
D4-505901-0140	TAR TH15 TICN D4-505901 M14F	047706	55,43	P19
D4-505901-0160	TAR TH15 TICN D4-505901 M16F	047708	57,45	P19
D4-505901-0200	TAR TH15 TICN D4-505901 M20F	047712	88,50	P19
FAN TICN				
D4-565001-0120	TAR TH40 TICN D4-565001 M12-F	047838	37,02	P19
D4-565001-0160	TAR TH40 TICN D4-565001 M16-F	047839	53,16	P19
D4-565001-0200	TAR TH40 TICN D4-565001 M20-F	047840	78,72	P19
WGN TIN				
C4-923005-0030	TAR A REFOULER HSSE-PM6HX M3 TIN	045735	19,65	P20
C4-923005-0040	TAR A REFOULER HSSE-PM6HX M4 TIN	045736	19,65	P20
C4-923005-0050	TAR A REFOULER HSSE-PM6HX M5 TIN	045737	20,63	P20
C4-923005-0060	TAR A REFOULER HSSE-PM6HX M6 TIN	045738	22,01	P20
C4-923005-0080	TAR A REFOULER HSSE-PM6HX M8 TIN	045739	26,29	P20
C4-923005-0100	TAR A REFOULER HSSE-PM6HX M10	045740	32,05	P20
WGN TICN				
C4-925005-0030	TAR A REFOUL HSSE-PM M3,0X0,5	045973	20,85	P20
C4-925005-0040	TAR A REFOUL HSSE-PM M4,0X0,7	045974	20,85	P20
C4-925005-0050	TAR A REFOUL HSSE-PM M5,0X0,8	045975	20,85	P20
C4-925005-0060	TAR A REFOUL HSSE-PM M6,0X1,0	045976	24,09	P20
C4-925005-0080	TAR A REFOUL HSSE-PM M8,0X1,25	045977	29,42	P20
C4-925005-0100	TAR A REFOUL HSSE-PM M10,0X1,5	045978	36,03	P20
WGN TIN				
D2-923105-0120	TAR A REFOUL HSSE-PM M12,0X1,75	045979	42,39	P21
D2-923105-0140	TAR A REFOUL HSSE-PM M14,0X2,0	045980	56,91	P21
D2-923105-0160	TAR A REFOUL HSSE-PM M16,0X2,0	045981	67,07	P21
D2-923105-0200	TAR A REFOUL HSSE-PM M20,0X2,5	045982	141,05	P21
HCR60 TICN				
C9-135F01-0030	TAR CARB TICN HRC60 M3F	045700	71,03	P22
C9-135F01-0040	TAR CARB TICN HRC60 M4F	045701	72,85	P22
C9-135F01-0050	TAR CARB TICN HRC60 M5F	045702	83,87	P22
C9-135F01-0060	TAR CARB IK TICN HRC60 M6F	045703	83,87	P22
C9-135F01-0080	TAR CARB IK TICN HRC60 M8F	045704	101,46	P22
C9-135F51-0100	TAR CARB IK TICN HRC60 M10F	045705	344,85	P22
HCR60 TICN				
D9-135F51-0120	TAR CARB IK TC HRC60 M12F	045706	387,98	P23
D9-135F51-0160	TAR CARB IK TC HRC60 M16F	045707	655,20	P23
800 TIN				
C2-113101-0041	TAR GUN M4,0x0,5 HSSE B - TICN	045277	16,49	P24
C2-113101-0062	TAR GUN M6,0x0,75 HSSE B - TICN	045282	18,23	P24
C2-113101-0082	TAR GUN M8,0x0,75 HSSE B - TICN	045285	20,56	P24
C2-113101-0083	TAR GUN M8,0x1,0 HSSE B - TICN	045286	19,30	P24
C2-113101-0102	TAR GUN M10,0x0,75 HSSE B - TICN	045289	28,44	P24
C2-113101-0103	TAR GUN M10,0x1,0 HSSE B - TICN	045291	23,81	P24
C2-113101-0104	TAR GUN M10,0x1,25 HSSE B - TICN	045292	26,90	P24
800 OX				
C2-116101-0041	TAR GUN M4,0x0,5 HSSE B - OX	045365	15,19	P24
C2-116101-0051	TAR GUN M5,0x0,5 HSSE B - OX	045368	21,37	P24
C2-116101-0062	TAR GUN M6,0x0,75 HSSE B - OX	045370	16,04	P24
C2-116101-0082	TAR GUN M8,0x0,75 HSSE B - OX	045373	17,38	P24
C2-116101-0083	TAR GUN M8,0x1,0 HSSE B - OX	045374	18,62	P24
C2-116101-0102	TAR GUN M10,0x0,75 HSSE B - OX	045377	23,90	P24
C2-116101-0103	TAR GUN M10,0x1,0 HSSE B - OX	045378	19,09	P24
C2-116101-0104	TAR GUN M10,0x1,25 HSSE B - OX	045379	22,34	P24
800 TIN				
D2-113101-0083	TAR GUN M8,0x1,0 HSSE B - TIN	045296	21,66	P25
D2-113101-0103	TAR GUN M10,0x1,0 HSSE B - TIN	045299	25,61	P25
D2-113101-0104	TAR GUN M10,0x1,25 HSSE B - TIN	045300	29,00	P25
D2-113101-0123	TAR GUN M12,0x1,0 HSSE B - TIN	045303	33,16	P25

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D2-113101-0124	TAR GUN M12,0x1,25 HSSE B - TIN	045304	33,63	P25
D2-113101-0125	TAR GUN M12,0x1,5 HSSE B - TIN	045305	31,58	P25
D2-113101-0143	TAR GUN M14,0x1,0 HSSE B - TIN	045307	41,75	P25
D2-113101-0144	TAR GUN M14,0x1,25 HSSE B - TIN	045308	38,94	P25
D2-113101-0145	TAR GUN M14,0x1,5 HSSE B - TIN	045309	41,75	P25
D2-113101-0153	TAR GUN M15,0x1,0 HSSE B - TIN	045310	51,4	P25
D2-113101-0163	TAR GUN M16,0x1,0 HSSE B - TIN	045312	48,3	P25
D2-113101-0165	TAR GUN M16,0x1,5 HSSE B - TIN	045313	43,8	P25
D2-113101-0183	TAR GUN M18,0x1,0 HSSE B - TIN	045315	65,73	P25
D2-113101-0185	TAR GUN M18,0x1,5 HSSE B - TIN	045316	53,24	P25
D2-113101-0186	TAR GUN M18,0x2,0 HSSE B - TIN	045317	59,45	P25
D2-113101-0203	TAR GUN M20,0x1,0 HSSE B - TIN	045319	67,16	P25
D2-113101-0205	TAR GUN M20,0x1,5 HSSE B - TIN	045320	62,8	P25
D2-113101-0206	TAR GUN M20,0x2,0 HSSE B - TIN	045321	75,95	P25
D2-113101-0223	TAR GUN M22,0x1,0 HSSE B - TIN	045323	90,95	P25
D2-113101-0225	TAR GUN M22,0x1,5 HSSE B - TIN	045324	78,4	P25
D2-113101-0226	TAR GUN M22,0x2,0 HSSE B - TIN	045325	90,95	P25
D2-113101-0243	TAR GUN M24,0x1,0 HSSE B - TIN	045327	92,18	P25
D2-113101-0245	TAR GUN M24,0x1,5 HSSE B - TIN	045328	86,41	P25
D2-113101-0246	TAR GUN M24,0x2,0 HSSE B - TIN	045329	92,17	P25
D2-113101-0255	TAR GUN M25,0x1,5 HSSE B - TIN	045330	117,66	P25
D2-113101-0265	TAR GUN M26,0x1,5 HSSE B - TIN	045331	109,7	P25
D2-113101-0275	TAR GUN M27,0x1,5 HSSE B - TIN	045333	110,27	P25
D2-113101-0276	TAR GUN M27,0x2,0 HSSE B - TIN	045334	118,04	P25
800 OX				
D2-116101-0083	TAR GUN M8,0x1,0 HSSE B - OX	045383	17,73	P25
D2-116101-0102	TAR GUN M10,0x0,75 HSSE B - OX	045385	25,01	P25
D2-116101-0103	TAR GUN M10,0x1,0 HSSE B - OX	045386	19,98	P25
D2-116101-0104	TAR GUN M10,0x1,25 HSSE B - OX	045387	23,33	P25
D2-116101-0113	TAR GUN M11,0x1,0 HSSE B - OX	045388	34,88	P25
D2-116101-0123	TAR GUN M12,0x1,0 HSSE B - OX	045390	25,79	P25
D2-116101-0124	TAR GUN M12,0x1,25 HSSE B - OX	045391	27,95	P25
D2-116101-0125	TAR GUN M12,0x1,5 HSSE B - OX	045392	25,79	P25
D2-116101-0143	TAR GUN M14,0x1,0 HSSE B - OX	045394	35,21	P25
D2-116101-0144	TAR GUN M14,0x1,25 HSSE B - OX	045396	32,35	P25
D2-116101-0145	TAR GUN M14,0x1,5 HSSE B - OX	045397	35,21	P25
D2-116101-0153	TAR GUN M15,0x1,0 HSSE B - OX	045398	44,04	P25
D2-116101-0163	TAR GUN M16,0x1,0 HSSE B - OX	045400	40,86	P25
D2-116101-0165	TAR GUN M16,0x1,5 HSSE B - OX	045401	36,16	P25
D2-116101-0183	TAR GUN M18,0x1,0 HSSE B - OX	045403	56,14	P25
D2-116101-0185	TAR GUN M18,0x1,5 HSSE B - OX	045404	43,19	P25
D2-116101-0186	TAR GUN M18,0x2,0 HSSE B - OX	045405	49,68	P25
D2-116101-0203	TAR GUN M20,0x1,0 HSSE B - OX	045407	55,89	P25
D2-116101-0205	TAR GUN M20,0x1,5 HSSE B - OX	045408	50,33	P25
D2-116101-0206	TAR GUN M20,0x2,0 HSSE B - OX	045409	64,03	P25
D2-116101-0223	TAR GUN M22,0x1,0 HSSE B - OX	045411	64,03	P25
D2-116101-0225	TAR GUN M22,0x1,5 HSSE B - OX	045412	65,16	P25
D2-116101-0226	TAR GUN M22,0x2,0 HSSE B - OX	045413	78,6	P25
D2-116101-0243	TAR GUN M24,0x1,0 HSSE B - OX	045433	72,45	P25
D2-116101-0245	TAR GUN M24,0x1,5 HSSE B - OX	045416	66,43	P25
D2-116101-0246	TAR GUN M24,0x2,0 HSSE B - OX	045417	72,44	P25
D2-116101-0255	TAR GUN M25,0x1,5 HSSE B - OX	045418	96,66	P25
D2-116101-0265	TAR GUN M26,0x1,5 HSSE B - OX	045419	90,65	P25
D2-116101-0275	TAR GUN M27,0x1,5 HSSE B - OX	045421	88,9	P25
D2-116101-0276	TAR GUN M27,0x2,0 HSSE B - OX	045422	96,98	P25
800 TIN				
D2-113101-0285	TAR GUN M28,0x1,5 HSSE B - TIN	045335	114,76	P26
D2-113101-0305	TAR GUN M30,0x1,5 HSSE B - TIN	045339	129,51	P26
D2-113101-0306	TAR GUN M30,0x2,0 HSSE B - TIN	045340	138,67	P26
D2-113101-0325	TAR GUN M32,0x1,5 HSSE B - TIN	045341	138,67	P26

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D2-113101-0326	TAR GUN M32,0x2,0 HSSE B - TIN	045342	145,60	P26	D2-513101-0144	TAR HEL40° M14,0x1,25 HSSE B - TIN	045657	44,19	P29
D2-113101-0335	TAR GUN M33,0x1,5 HSSE B - TIN	045344	180,95	P26	D2-513101-0145	TAR HEL40° M14,0x1,5 HSSE B - TIN	045658	47,45	P29
D2-113101-0336	TAR GUN M33,0x2,0 HSSE B - TIN	045345	195,06	P26	D2-513101-0153	TAR HEL40° M15,0x1,0 HSSE B - TIN	045659	58,42	P29
D2-113101-0365	TAR GUN M36,0x1,5 HSSE B - TIN	045349	243,57	P26	D2-513101-0163	TAR HEL40° M20,0x2,5 HSSE B - TIN	045661	54,82	P29
D2-113101-0366	TAR GUN M36,0x2,0 HSSE B - TIN	045350	300,76	P26	D2-513101-0165	TAR HEL40° M16,0x1,5 HSSE B - TIN	045662	49,59	P29
D2-113101-0367	TAR GUN M36,0x3,0 HSSE B - TIN	045351	262,53	P26	D2-513101-0183	TAR HEL40° M18,0x1,0 HSSE B - TIN	045664	74,64	P29
D2-116101-0285	TAR GUN M28,0x1,5 HSSE B - OX	045423	93,35	P26	D2-513101-0185	TAR HEL40° M18,0x1,5 HSSE B - TIN	045665	60,27	P29
D2-116101-0305	TAR GUN M30,0x1,5 HSSE B - OX	045426	109,48	P26	D2-513101-0186	TAR HEL40° M18,0x2,0 HSSE B - TIN	045666	67,44	P29
800 OX					D2-513101-0205	TAR HEL40° M20,0x1,5 HSSE B - TIN	045669	70,99	P29
D2-116101-0306	TAR GUN M30,0x2,0 HSSE B - OX	045427	119,43	P26	D2-513101-0206	TAR HEL40° M20,0x2,0 HSSE B - TIN	045670	86,27	P29
D2-116101-0325	TAR GUN M32,0x1,5 HSSE B - OX	045428	119,43	P26	D2-513101-0225	TAR HEL40° M22,0x1,5 HSSE B - TIN	045673	88,92	P29
D2-116101-0326	TAR GUN M32,0x2,0 HSSE B - OX	045429	119,43	P26	D2-513101-0226	TAR HEL40° M22,0x2,0 HSSE B - TIN	045674	103,38	P29
D2-116101-0335	TAR GUN M33,0x1,5 HSSE B - OX	045431	146,42	P26	D2-513101-0241	TAR HEL40° M24,0x1,0 HSSE B - TIN	045676	104,16	P29
D2-116101-0336	TAR GUN M33,0x2,0 HSSE B - OX	045432	161,04	P26	D2-513101-0245	TAR HEL40° M24,0x1,5 HSSE B - TIN	045677	97,42	P29
D2-116101-0365	TAR GUN M36,0x1,5 HSSE B - OX	045436	199,01	P26	D2-513101-0246	TAR HEL40° M24,0x2,0 HSSE B - TIN	045678	104,15	P29
D2-116101-0366	TAR GUN M36,0x2,0 HSSE B - OX	045437	258,64	P26	D2-513101-0255	TAR HEL40° M25,0x1,5 HSSE B - TIN	045679	133,33	P29
D2-116101-0367	TAR GUN M36,0x3,0 HSSE B - OX	045434	218,90	P26	D2-513101-0265	TAR HEL40° M26,0x1,5 HSSE B - TIN	045680	126,63	P29
800 TIN					D2-513101-0275	TAR HEL40° M27,0x1,5 HSSE B - TIN	045682	124,78	P29
C2-513101-0041	TAR HEL40° M4,0x0,5 HSSE C - TIN	045626	18,02	P27	D2-513101-0276	TAR HEL40° M27,0x2,0 HSSE B - TIN	045683	133,72	P29
C2-513101-0051	TAR HEL40° M5,0x0,5 HSSE C - TIN	045629	24,97	P27	800 OX				
C2-513101-0062	TAR HEL40° M6,0x0,75 HSSE C - TIN	045631	18,70	P27	D2-516101-0083	TAR HEL40° M8,0x1,0 HSSE B - OX	045772	20,45	P29
C2-513101-0082	TAR HEL40° M8,0x0,75 HSSE C - TIN	045634	22,19	P27	D2-516101-0103	TAR HEL40° M10,0x1,0 HSSE B - OX	045775	23,22	P29
C2-513101-0083	TAR HEL40° M8,0x1,0 HSSE C - TIN	045635	20,85	P27	D2-516101-0104	TAR HEL40° M10,0x1,25 HSSE B - OX	045776	27,03	P29
C2-513101-0102	TAR HEL40° M10,0x0,75 HSSE C - TIN	045640	30,68	P27	D2-516101-0124	TAR HEL40° M12,0x1,25 HSSE B - OX	045780	32,31	P29
C2-513101-0103	TAR HEL40° M10,0x1,0 HSSE C - TIN	045645	25,62	P27	D2-516101-0125	TAR HEL40° M12,0x1,5 HSSE B - OX	045781	29,82	P29
C2-513101-0104	TAR HEL40° M10,0x1,25 HSSE C - TIN	045643	29,00	P27	D2-516101-0144	TAR HEL40° M14,0x1,25 HSSE B - OX	045784	37,41	P29
800 OX					D2-516101-0145	TAR HEL40° M14,0x1,5 HSSE B - OX	045785	40,75	P29
C2-516101-0041	TAR HEL40° M4,0x0,5 HSSE C - OX	045754	16,78	P27	D2-516101-0163	TAR HEL40° M16,0x1,0 HSSE B - OX	045788	47,19	P29
C2-516101-0051	TAR HEL40° M5,0x0,5 HSSE C - OX	045757	23,51	P27	D2-516101-0165	TAR HEL40° M16,0x1,5 HSSE B - OX	045789	41,75	P29
C2-516101-0062	TAR HEL40° M6,0x0,75 HSSE C - OX	045759	16,49	P27	D2-516101-0185	TAR HEL40° M18,0x1,5 HSSE B - OX	045792	49,90	P29
C2-516101-0082	TAR HEL40° M8,0x0,75 HSSE C - OX	045762	19,14	P27	D2-516101-0203	TAR HEL40° M20,0x1,0 HSSE B - OX	045795	63,40	P29
C2-516101-0083	TAR HEL40° M8,0x1,0 HSSE C - OX	045763	17,76	P27	D2-516101-0205	TAR HEL40° M20,0x1,5 HSSE B - OX	045796	58,13	P29
C2-516101-0102	TAR HEL40° M10,0x0,75 HSSE C - OX	045766	26,26	P27	D2-516101-0223	TAR HEL40° M22,0x1,0 HSSE B - OX	045799	90,30	P29
C2-516101-0103	TAR HEL40° M10,0x1,0 HSSE C - OX	045767	20,98	P27	D2-516101-0225	TAR HEL40° M22,0x1,5 HSSE B - OX	045800	75,27	P29
C2-516101-0104	TAR HEL40° M10,0x1,25 HSSE C - OX	045768	24,50	P27	D2-516101-0245	TAR HEL40° M24,0x1,5 HSSE B - OX	045804	76,70	P29
INOXHL					D2-516101-0246	TAR HEL40° M24,0x2,0 HSSE B - OX	045805	83,74	P29
C2-518801-0041	TAR HEL40° M4,0x0,5 HSSE C - HL	045870	19,14	P27	D2-516101-0265	TAR HEL40° M26,0x1,5 HSSE B - OX	045807	104,67	P29
C2-518801-0051	TAR HEL40° M5,0x0,5 HSSE C - HL	045871	26,88	P27	D2-516101-0275	TAR HEL40° M27,0x1,5 HSSE B - OX	045809	102,70	P29
C2-518801-0062	TAR HEL40° M6,0x0,75 HSSE C - HL	045872	20,32	P27	D2-516101-0276	TAR HEL40° M27,0x2,0 HSSE B - OX	045810	112,00	P29
C2-518801-0082	TAR HEL40° M8,0x0,75 HSSE C - HL	045873	25,25	P27	800				
C2-518801-0083	TAR HEL40° M8,0x1,0 HSSE C - HL	045874	23,84	P27	D2-511101-0385	TAR HEL40° M38,0x1,5 HSSE C	045546	252,54	P30
C2-518801-0102	TAR HEL40° M10,0x0,75 HSSE C - HL	045875	35,49	P27	D2-511101-0395	TAR HEL40° M39,0x1,5 HSSE C	045544	277,76	P30
C2-518801-0103	TAR HEL40° M10,0x1,0 HSSE C - HL	045876	29,96	P27	D2-511101-0396	TAR HEL40° M39,0x2,0 HSSE C	045545	280,96	P30
C2-518801-0104	TAR HEL40° M10,0x1,25 HSSE C - HL	045877	33,65	P27	D2-511101-0397	TAR HEL40° M39,0x3,0 HSSE C	045549	332,97	P30
1400 TICN					D2-511101-0405	TAR HEL40° M40,0x1,5 HSSE C	045559	277,76	P30
C4-505901-0031	TAR TH15 TICN C4-505901 M3F	047695	24,18	P28	D2-511101-0425	TAR HEL40° M42,0x1,5 HSSE C	045562	298,65	P30
C4-505901-0040	TAR TH15 TICN C4-505901 M4 F	047696	16,82	P28	D2-511101-0426	TAR HEL40° M42,0x2,0 HSSE C	045563	301,54	P30
C4-505901-0050	TAR TH15 TICN C4-505901 M5 F	047697	17,88	P28	D2-511101-0427	TAR HEL40° M42,0x3,0 HSSE C	045564	301,54	P30
C4-505901-0060	TAR TH15 TICN C4-505901 M6F	047698	19,14	P28	D2-511101-0455	TAR HEL40° M45,0x1,5 HSSE C	045566	273,50	P30
C4-505901-0080	TAR TH15 TICN C4-505901 M8F	047700	21,87	P28	D2-511101-0456	TAR HEL40° M45,0x2,0 HSSE C	045567	301,54	P30
C4-505901-0100	TAR TH15 TICN C4-505901 M10F	047702	28,65	P28	D2-511101-0457	TAR HEL40° M45,0x3,0 HSSE C	045568	301,54	P30
800 TIN					D2-511101-0485	TAR HEL40° M48,0x1,5 HSSE C	045569	326,95	P30
D2-513101-0083	TAR HEL40° M8,0x1,0 HSSE B - TIN	045644	23,46	P29	D2-511101-0486	TAR HEL40° M48,0x2,0 HSSE C	045570	337,05	P30
D2-513101-0103	TAR HEL40° M10,0x1,0 HSSE B - TIN	045647	27,67	P29	D2-511101-0487	TAR HEL40° M48,0x3,0 HSSE C	045571	321,04	P30
D2-513101-0104	TAR HEL40° M10,0x1,25 HSSE B - TIN	045649	31,40	P29	D2-511101-0505	TAR HEL40° M50,0x1,5 HSSE C	045573	368,60	P30
D2-513101-0113	TAR HEL40° M11,0x1,0 HSSE B - TIN	045650	45,77	P29	D2-511101-0506	TAR HEL40° M50,0x2,0 HSSE C	045574	368,60	P30
D2-513101-0123	TAR HEL40° M12,0x1,0 HSSE B - TIN	045652	35,78	P29	D2-511101-0525	TAR HEL40° M52,0x1,5 HSSE C	045578	368,60	P30
D2-513101-0124	TAR HEL40° M12,0x1,25 HSSE B - TIN	045653	38,13	P29	D2-511101-0526	TAR HEL40° M52,0x2,0 HSSE C	045576	368,60	P30
D2-513101-0125	TAR HEL40° M12,0x1,5 HSSE B - TIN	045654	35,78	P29	D2-511101-0527	TAR HEL40° M52,0x3,0 HSSE C	045577	398,09	P30
D2-513101-0143	TAR HEL40° M14,0x1,0 HSSE B - TIN	045656	47,45	P29					

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800 TIN				
D2-513101-0285	TAR HEL40° M28.0x1.5 HSSE C - TIN	045684	129,52	P30
D2-513101-0286	TAR HEL40° M28.0x2.0 HSSE C - TIN	045685	162,59	P30
D2-513101-0305	TAR HEL40° M30.0x1.5 HSSE C - TIN	045687	146,53	P30
D2-513101-0306	TAR HEL40° M30.0x2.0 HSSE C - TIN	045688	157,02	P30
D2-513101-0325	TAR HEL40° M32.0x1.5 HSSE C - TIN	045689	166,49	P30
D2-513101-0326	TAR HEL40° M32.0x2.0 HSSE C - TIN	045690	160,70	P30
D2-513101-0335	TAR HEL40° M33.0x1.5 HSSE C - TIN	045692	189,29	P30
D2-513101-0336	TAR HEL40° M33.0x2.0 HSSE C - TIN	045693	210,55	P30
D2-513101-0345	TAR HEL40° M34.0x1.5 HSSE C - TIN	045694	234,47	P30
D2-513101-0355	TAR HEL40° M35.0x1.5 HSSE C - TIN	045695	293,37	P30
D2-513101-0365	TAR HEL40° M36.0x1.5 HSSE C - TIN	045697	262,53	P30
D2-513101-0366	TAR HEL40° M36.0x2.0 HSSE C - TIN	045698	325,61	P30
800 OX				
D2-516101-0285	TAR HEL40° M28.0x1.5 HSSE C - OX	045811	102,74	P30
D2-516101-0305	TAR HEL40° M30.0x1.5 HSSE C - OX	045814	120,37	P30
D2-516101-0306	TAR HEL40° M30.0x2.0 HSSE C - OX	045815	131,36	P30
D2-516101-0325	TAR HEL40° M32.0x1.5 HSSE C - OX	045816	131,36	P30
D2-516101-0326	TAR HEL40° M32.0x2.0 HSSE C - OX	045817	131,36	P30
D2-516101-0335	TAR HEL40° M33.0x1.5 HSSE C - OX	045819	161,04	P30
D2-516101-0336	TAR HEL40° M33.0x2.0 HSSE C - OX	045820	177,12	P30
D2-516101-0365	TAR HEL40° M36.0x1.5 HSSE C - OX	045824	218,91	P30
D2-516101-0366	TAR HEL40° M36.0x2.0 HSSE C - OX	045825	284,54	P30
D2-516101-0367	TAR HEL40° M36.0x3.0 HSSE C - OX	045826	222,30	P30
INOX				
C2-111801-4105	TAR GUN No 5-40 HSSE B	045220	14,78	P31
C2-111801-4106	TAR GUN No 6-32 HSSE B	045221	14,78	P31
C2-111801-4108	TAR GUN No 8-32 HSSE B	045222	14,73	P31
C2-111801-4110	TAR GUN No 10-24 HSSE B	045223	14,96	P31
C2-111801-4112	TAR GUN No 12-24 HSSE B	045224	15,83	P31
C2-111801-4127	TAR GUN No 1/4-20 HSSE B	045225	15,78	P31
C2-111801-4128	TAR GUN No 5/16-18 HSSE B	045226	17,09	P31
C2-111801-4129	TAR GUN No 3/8-16 HSSE B	045228	20,12	P31
INOX				
C2-511801-4106	TAR HEL40° No 6-32 HSSE B	045581	16,22	P31
C2-511801-4108	TAR HEL40° No 8-32 HSSE B	045582	16,22	P31
C2-511801-4110	TAR HEL40° No 10-24 HSSE B	045583	16,43	P31
C2-511801-4127	TAR HEL40° No 1/4-20 HSSE B	045585	17,29	P31
C2-511801-4128	TAR HEL40° No 5/16-18 HSSE B	045586	18,74	P31
C2-511801-4129	TAR HEL40° No 3/8-16 HSSE B	045587	22,19	P31
INOX				
D2-111801-4130	TAR GUN No 7/16-14 HSSE B	045236	28,70	P32
D2-111801-4131	TAR GUN No 1/2-13 HSSE B	045237	29,98	P32
D2-111801-4132	TAR GUN No 9/16-12 HSSE B	045238	39,17	P32
D2-111801-4133	TAR GUN No 5/8-11 HSSE B	045239	38,23	P32
INOX				
D2-511801-4130	TAR HEL40° No 7/16-14 HSSE B	045594	31,40	P32
D2-511801-4131	TAR HEL40° No 1/2-13 HSSE B	045595	31,40	P32
D2-511801-4132	TAR HEL40° No 9/16-12 HSSE B	045596	42,93	P32
D2-511801-4133	TAR HEL40° No 5/8-11 HSSE B	045597	42,09	P32
D2-511801-4135	TAR HEL40° No 3/4-10 HSSE B	045598	61,22	P32
D2-511801-4137	TAR HEL40° No 7/8-9 HSSE B	045599	87,21	P32
D2-511801-4139	TAR HEL40° No 1-8 HSSE B	045600	80,82	P32
INOX				
C2-111801-4210	TAR GUN No 10-32 HSSE B	045232	17,20	P33
C2-111801-4227	TAR GUN No 1/4-28 HSSE B	045233	18,98	P33
C2-111801-4228	TAR GUN No 5/16-24 HSSE B	045234	19,67	P33
C2-111801-4229	TAR GUN No 3/8-24 HSSE B	045235	23,31	P33
C2-511801-4208	TAR HEL40° No 8-36 HSSE B	045588	19,61	P33
C2-511801-4210	TAR HEL40° No 10-32 HSSE B	045589	19,82	P33

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C2-511801-4227	TAR HEL40° No 1/4-28 HSSE B	045590	20,80	P33
C2-511801-4228	TAR HEL40° No 5/16-24 HSSE B	045591	21,54	P33
C2-511801-4229	TAR HEL40° No 3/8-24 HSSE B	045592	25,53	P33
INOX				
D2-111801-4223	TAR GUN No 1/2-20 HSSE B	045252	32,81	P34
D2-111801-4230	TAR GUN No 7/16-20 HSSE B	045251	32,81	P34
D2-111801-4232	TAR GUN No 9/16-18 HSSE B	045254	44,82	P34
D2-111801-4233	TAR GUN No 5/8-18 HSSE B	045255	43,96	P34
D2-511801-4230	TAR HEL40° No 7/16-20 HSSE B	045605	36,12	P34
D2-511801-4231	TAR HEL40° No 1/2-20 HSSE B	045606	36,12	P34
D2-511801-4232	TAR HEL40° No 9/16-18 HSSE B	045607	49,38	P34
D2-511801-4233	TAR HEL40° No 5/8-18 HSSE B	045608	48,38	P34
D2-511801-4235	TAR HEL40° No 3/4-16 HSSE B	045609	70,39	P34
D2-511801-4237	TAR HEL40° No 7/8-14 HSSE B	045610	100,25	P34
D2-511801-4239	TAR HEL40° No 1-12 HSSE B	045611	92,91	P34
D2-511801-4241	TAR HEL40° No 1.1/8-12 HSSE B	045612	139,63	P34
D2-511801-4245	TAR HEL40° No 1.3/8-12 HSSE B	045614	259,01	P34
D2-511801-4247	TAR HEL40° No 1.1/2-12 HSSE B	045615	383,39	P34
800 OX				
D2-116101-3123	TAR GUN G1/8" HSSE B - OX	045440	22,34	P35
D2-116101-3127	TAR GUN G-1/4" HSSE B - OX	045441	40,12	P35
D2-116101-3129	TAR GUN G-3/8" HSSE B - OX	045442	39,60	P35
D2-116101-3131	TAR GUN G-1/2" HSSE B - OX	045443	52,85	P35
D2-116101-3133	TAR GUN G-5/8" HSSE B - OX	045444	82,11	P35
D2-116101-3135	TAR GUN G-3/4" HSSE B - OX	045445	93,39	P35
D2-116101-3139	TAR GUN G-1" HSSE B - OX	045447	175,67	P35
D2-116101-3141	TAR GUN G-1.1/8" HSSE B - OX	045448	262,66	P35
D2-116101-3143	TAR GUN G-1.1/4" HSSE B - OX	045449	261,35	P35
D2-116101-3147	TAR GUN G-1.1/2" HSSE B - OX	045450	278,11	P35
D2-116101-3151	TAR GUN G-1.3/4" HSSE B - OX	045451	377,55	P35
D2-116101-3155	TAR GUN G-2" HSSE B - OX	045452	468,74	P35
D2-516101-3123	TAR HEL40° G1/8" HSSE B - OX	045828	24,50	P35
D2-516101-3127	TAR HEL40° G-1/4" HSSE B - OX	045829	44,14	P35
D2-516101-3129	TAR HEL40° G-3/8" HSSE B - OX	045830	43,54	P35
D2-516101-3131	TAR HEL40° G-1/2" HSSE B - OX	045831	58,04	P35
D2-516101-3133	TAR HEL40° G-5/8" HSSE B - OX	045832	90,26	P35
D2-516101-3135	TAR HEL40° G-3/4" HSSE B - OX	045833	102,74	P35
D2-516101-3137	TAR HEL40° G-7/8" HSSE B - OX	045834	131,36	P35
D2-516101-3139	TAR HEL40° G-1" HSSE B - OX	045835	193,25	P35
JEU 3 TARAUDSHSS				
A1-230001-0030	JEU 3 TAR HSS M3X50 6H	044005	11,49	P36
A1-230001-0040	JEU 3 TAR HSS M4X70 6H	044010	11,49	P36
A1-230001-0050	JEU 3 TAR HSS M5X80 6H	044015	11,93	P36
A1-230001-0060	JEU 3 TAR HSS M6X100 6H	044020	12,61	P36
A1-230001-0070	JEU 3 TAR HSS M7X100 6H	044022	21,66	P36
A1-230001-0080	JEU 3 TAR HSS M8X125 6H	044024	15,00	P36
A1-230001-0100	JEU 3 TAR HSS M10X150 6H	044030	20,41	P36
A1-230001-0120	JEU 3 TAR HSS M12X175 6H	044034	27,99	P36
A1-230001-0140	JEU 3 TAR HSS M14X200 6H	044036	32,34	P37
A1-230001-0160	JEU 3 TAR HSS M16X200 6H	044038	38,86	P37
A1-230001-0180	JEU 3 TAR HSS M18X250 6H	044040	54,76	P37
A1-230001-0200	JEU 3 TAR HSS M20X250 6H	044042	60,40	P37
A1-230001-0220	JEU 3 TAR HSS M22X250 6H	044044	70,65	P37
A1-230001-0240	JEU 3 TAR HSS M24X300 6H	044046	78,69	P37
FILIERE				
N1-121001-0010	FILIERE DIN 22568 M1 6g HSS800	053150	11,01	P38
N1-121001-0020	FILIERE DIN 22568 M2 6g HSS800	053151	11,01	P38
N1-121001-0030	FILIERE DIN 22568 M3 6g HSS800	053152	6,41	P38
N1-121001-0040	FILIERE DIN 22568 M4 6g HSS800	053153	6,05	P38
N1-121001-0050	FILIERE DIN 22568 M5 6g HSS800	053154	6,20	P38

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N1-121001-0060	FILIERE DIN 22568 M6 6g HSS800	053155	6,20	P38	S3-302161-0125	TAMPON FIL DBLE M12x1,5 6H	555054	81,00	P40
N1-121001-0070	FILIERE DIN 22568 M7 6g HSS800	053156	7,85	P38	S3-302161-0140	TAMPON FIL DBLE M14x2 6H	555055	81,00	P40
N1-121001-0080	FILIERE DIN 22568 M8 6g HSS800	053157	6,96	P38	S3-302161-0145	TAMPON FIL DBLE M14x1,5 6H	555056	81,00	P40
N1-121001-0090	FILIERE DIN 22568 M9 6g HSS800	053158	9,57	P38	S3-302161-0160	TAMPON FIL DBLE M16x2,0 Tol.6H	045068	49,09	P40
N1-121001-0100	FILIERE DIN 22568 M10 6g HSS800	053159	8,90	P38	S3-302161-0165	TAMPON FIL DBLE M16x1,5 6H	555058	91,29	P40
N1-121001-0110	FILIERE DIN 22568 M11 6g HSS800	053160	10,31	P38	S3-302161-0180	TAMPON FIL DBLE M18x2,5 6H	555059	91,29	P40
N1-121001-0120	FILIERE DIN 22568 M12 6g HSS800	053161	11,35	P38	S3-302161-0185	TAMPON FIL DBLE M18x1,5 6H	555060	91,29	P40
N1-121001-0140	FILIERE DIN 22568 M14 6g HSS800	053162	11,35	P38	S3-302161-0200	TAMPON FIL DBLE M20x2,5 6H	555061	102,50	P40
N1-121001-0160	FILIERE DIN 22568 M16 6g HSS800	053164	20,46	P38	S3-302161-0205	TAMPON FIL DBLE M20x1,5 6H	555062	102,50	P40
N1-121001-0180	FILIERE DIN 22568 M18 6g HSS800	053166	20,46	P38	S3-302161-0220	TAMPON FIL DBLE M22x2,5 6H	555063	102,50	P40
N1-121001-0200	FILIERE DIN 22568 M20 6g HSS800	053168	20,46	P38	S3-302161-0225	TAMPON FIL DBLE M22x1,5 6H	555064	102,50	P40
N1-121001-0220	FILIERE DIN 22568 M22 6g HSS800	053170	38,64	P38	S3-302161-0240	TAMPON FIL DBLE M24x3 6H	555065	102,50	P40
N1-121001-0240	FILIERE DIN 22568 M24 6g HSS800	053172	38,64	P38	S3-302161-0245	TAMPON FIL DBLE M24x1,5 6H	555066	102,50	P40
N1-121001-0270	FILIERE DIN 22568 M27 6g HSS800	053175	59,81	P38	S3-302161-0270	TAMPON FIL DBLE M27x3 6H	555067	114,71	P40
N1-121001-0300	FILIERE DIN 22568 M30 6g HSS800	053178	62,36	P38	S3-302161-0300	TAMPON FIL DBLE M30x3,5 6H	555068	114,71	P40
TAMPON LISSE					S3-302161-0330	TAMPON FIL DBLE M33x3,5 6H	555069	128,81	P40
S3-100111-0030	TAMPON LISSE DBLE D3 H7	555001	43,11	P39	S3-302161-0360	TAMPON FIL DBLE M36x4 6H	555070	128,81	P40
S3-100111-0040	TAMPON LISSE DBLE D4 H7	555002	43,11	P39	S3-302161-0390	TAMPON FIL DBLE M39x4 6H	555071	128,81	P40
S3-100111-0050	TAMPON LISSE DBLE D5 H7	555003	43,11	P39	S3-302161-0420	TAMPON FIL DBLE M42x4,5 6H	555072	137,16	P40
S3-100111-0060	TAMPON LISSE DBLE D6 H7	555004	43,11	P39	S3-302161-0450	TAMPON FIL DBLE M45x5 6H	555073	137,16	P40
S3-100111-0080	TAMPON LISSE DBLE D8 H7	555005	43,11	P39	S3-302161-0480	TAMPON FIL DBLE M48x5 6H	555074	137,16	P40
S3-100111-0100	TAMPON LISSE DBLE D10 H7	555006	44,94	P39	S3-302161-0520	TAMPON FIL DBLE M52x5 6H	555075	137,16	P40
S3-100111-0120	TAMPON LISSE DBLE D12 H7	555007	48,65	P39	BAGUE FILETEE ENTRE				
S3-100111-0140	TAMPON LISSE DBLE D14 H7	555008	48,65	P39	Y3-412162-0018	BAGUE FILENTRE M1,8x0,35 6g	555089	147,40	P40
S3-100111-0160	TAMPON LISSE DBLE D16 H7	555009	54,76	P39	Y3-412162-0020	BAGUE FILENTRE M2x0,4 6g	555090	147,40	P40
S3-100111-0180	TAMPON LISSE DBLE D18 H7	555010	54,76	P39	Y3-412162-0025	BAGUE FILENTRE M2,5x0,45 6g	555091	110,43	P40
S3-100111-0200	TAMPON LISSE DBLE D20 H7	555011	61,49	P39	Y3-412162-0026	BAGUE FILENTRE M2,6x0,45 6g	555092	110,43	P40
S3-100111-0220	TAMPON LISSE DBLE D22 H7	555012	61,49	P39	Y3-412162-0030	BAGUE FILENTRE M3x0,5 6g	555093	83,45	P40
S3-100111-0240	TAMPON LISSE DBLE D24 H7	555013	61,49	P39	Y3-412162-0035	BAGUE FILENTRE M3,5x0,6 6g	555094	77,45	P40
S3-100111-0250	TAMPON LISSE DBLE D25 H7	555014	68,90	P39	Y3-412162-0040	BAGUE FILENTRE M4x0,7 6g	555095	75,78	P40
S3-100111-0260	TAMPON LISSE DBLE D26 H7	555015	68,90	P39	Y3-412162-0045	BAGUE FILENTRE M4,5x0,75 6g	555096	75,78	P40
S3-100111-0280	TAMPON LISSE DBLE D28 H7	555016	68,90	P39	Y3-412162-0050	BAGUE FILENTRE M5x0,8 6g	555097	75,78	P40
S3-100111-0300	TAMPON LISSE DBLE D30 H7	555017	68,90	P39	Y3-412162-0060	BAGUE FILENTRE M6x1 6g	555098	75,78	P40
S3-100111-0320	TAMPON LISSE DBLE D32 H7	555018	77,29	P39	Y3-412162-0070	BAGUE FILENTRE M7x1 6g	555099	75,78	P40
S3-100111-0330	TAMPON LISSE DBLE D33 H7	555019	77,29	P39	Y3-412162-0080	BAGUE FILENTRE M8x1,25 6g	555100	77,45	P40
S3-100111-0340	TAMPON LISSE DBLE D34 H7	555020	77,29	P39	Y3-412162-0090	BAGUE FILENTRE M9x1,25 6g	555102	83,45	P40
S3-100111-0350	TAMPON LISSE DBLE D35 H7	555021	77,29	P39	Y3-412162-0100	BAGUE FILENTRE M10x1,5 6g	555103	90,46	P40
S3-100111-0360	TAMPON LISSE DBLE D36 H7	555022	77,35	P39	Y3-412162-0120	BAGUE FILENTRE M12x1,75 6g	555106	104,96	P40
S3-100111-0370	TAMPON LISSE DBLE D37 H7	555023	77,29	P39	Y3-412162-0140	BAGUE FILENTRE M14x2 6g	555108	115,92	P40
S3-100111-0380	TAMPON LISSE DBLE D38 H7	555024	77,29	P39	Y3-412162-0160	BAGUE FILENTRE M16x2 6g	555110	128,34	P40
S3-100111-0400	TAMPON LISSE DBLE D40 H7	555025	82,40	P39	Y3-412162-0180	BAGUE FILENTRE M18x2,5 6g	555112	146,19	P40
S3-100111-0420	TAMPON LISSE DBLE D42 H7	555026	82,40	P39	Y3-412162-0200	BAGUE FILENTRE M20x2,5 6g	555114	162,48	P40
S3-100111-0450	TAMPON LISSE DBLE D45 H7	555027	82,40	P39	Y3-412162-0220	BAGUE FILENTRE M22x2,5 6g	555116	177,15	P40
S3-100111-0470	TAMPON LISSE DBLE D47 H7	555028	82,40	P39	Y3-412162-0240	BAGUE FILENTRE M24x3 6g	555118	189,50	P40
S3-100111-0500	TAMPON LISSE DBLE D50 H7	555029	82,40	P39	Y3-412162-0270	BAGUE FILENTRE M27x3 6g	555121	211,17	P40
TAMPON FILETE DOUBLE					Y3-412162-0300	BAGUE FILENTRE M30x3,5 6g	555123	231,22	P40
S3-302161-0030	TAMPON FIL DBLE M3x0,5 6H	555040	114,51	P40	Y3-412162-0330	BAGUE FILENTRE M33x3,5 6g	555125	252,87	P40
S3-302161-0035	TAMPON FIL DBLE M3,5x0,6 6H	555041	114,51	P40	Y3-412162-0360	BAGUE FILENTRE M36x4 6g	555126	272,86	P40
S3-302161-0040	TAMPON FIL DBLE M4x0,7 Tol.6H	045062	33,08	P40	Y3-412162-0390	BAGUE FILENTRE M39x4 6g	555127	296,18	P40
S3-302161-0045	TAMPON FIL DBLE M4,5x0,75 6H	555043	71,62	P40	Y3-412162-0420	BAGUE FILENTRE M42x4,5 6g	555129	321,62	P40
S3-302161-0050	TAMPON FIL DBLE M5x0,8 Tol.6H	045063	33,08	P40	Y3-412162-0450	BAGUE FILENTRE M45x4,5 6g	555130	341,07	P40
S3-302161-0060	TAMPON FIL DBLE M6x1,0 Tol.6H	045064	33,08	P40	Y3-412162-0480	BAGUE FILENTRE M48x5 6g	555131	361,18	P40
S3-302161-0070	TAMPON FIL DBLE M7x1 6H	555046	71,62	P40	Y3-412162-0520	BAGUE FILENTRE M52x5 6g	555133	388,26	P40
S3-302161-0080	TAMPON FIL DBLE M8x1,25 Tol.6H	045065	38,06	P40	BAGUE FILETEE ENTRE PAS				
S3-302161-0083	TAMPON FIL DBLE M8x1 6H	555048	89,47	P40	Y3-422162-0018	BAGUE FILENTRE PAS M1,8x0,35 6g	555150	147,40	P40
S3-302161-0090	TAMPON FIL DBLE M9x1,25 6H	555049	75,37	P40	Y3-422162-0020	BAGUE FILENTRE PAS M2x0,4 6g	555151	147,40	P40
S3-302161-0100	TAMPON FIL DBLE M10x1,5 Tol.6H	45066	43,05	P40	Y3-422162-0025	BAGUE FILENTRE PAS M2,5x0,45 6g	555152	110,43	P40
S3-302161-0103	TAMPON FIL DBLE M10x1 6H	555051	93,58	P40	Y3-422162-0026	BAGUE FILENTRE PAS M2,6x0,45 6g	555153	110,43	P40
S3-302161-0104	TAMPON FIL DBLE M10x1,25 6H	555052	93,58	P40	Y3-422162-0030	BAGUE FILENTRE PAS M3x0,5 6g	555154	83,45	P40
S3-302161-0120	TAMPON FIL DBLE M12x1,75 6H	045067	44,89	P40	Y3-422162-0035	BAGUE FILENTRE PAS M3,5x0,6 6g	555155	77,45	P40

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Y3-422162-0040	BAGUE FILENTRE PAS M4x0,7 6g	555156	75,78	P40
Y3-422162-0045	BAGUE FILENTRE PAS M4,5x0,75 6g	555157	75,78	P40
Y3-422162-0050	BAGUE FILENTRE PAS M5x0,8 6g	555158	75,78	P40
Y3-422162-0060	BAGUE FILENTRE PAS M6x1 6g	555159	75,78	P40
Y3-422162-0070	BAGUE FILENTRE PAS M7x1 6g	555160	75,78	P40
Y3-422162-0080	BAGUE FILENTRE PAS M8x1,25 6g	555161	77,45	P40
Y3-422162-0090	BAGUE FILENTRE PAS M9x1,25 6g	555163	83,45	P40
Y3-422162-0100	BAGUE FILENTRE PAS M10x1,5 6g	555164	90,46	P40
Y3-422162-0120	BAGUE FILENTRE PAS M12x1,75 6g	555167	104,96	P40
Y3-422162-0140	BAGUE FILENTRE PAS M14x2 6g	555169	115,92	P40
Y3-422162-0160	BAGUE FILENTRE PAS M16x2 6g	555171	128,34	P40
Y3-422162-0180	BAGUE FILENTRE PAS M18x2,5 6g	555173	146,19	P40
Y3-422162-0200	BAGUE FILENTRE PAS M20x2,5 6g	555175	162,48	P40
Y3-422162-0220	BAGUE FILENTRE PAS M22x2,5 6g	555177	177,15	P40
Y3-422162-0240	BAGUE FILENTRE PAS M24x2 6g	555179	189,50	P40
Y3-422162-0270	BAGUE FILENTRE PAS M27x3 6g	555181	211,17	P40
Y3-422162-0300	BAGUE FILENTRE PAS M30x3,5 6g	555183	231,22	P40
Y3-422162-0330	BAGUE FILENTRE PAS M33x3,5 6g	555184	252,87	P40
Y3-422162-0360	BAGUE FILENTRE PAS M36x4 6g	555185	272,86	P40
Y3-422162-0390	BAGUE FILENTRE PAS M39x4 6g	555186	296,18	P40
Y3-422162-0420	BAGUE FILENTRE PAS M42x4,5 6g	555188	321,62	P40
Y3-422162-0450	BAGUE FILENTRE PAS M45x5 6g	555189	341,07	P40
Y3-422162-0480	BAGUE FILENTRE PAS M48x5 6g	555190	361,18	P40
Y3-422162-0520	BAGUE FILENTRE PAS M52x5 6g	555191	388,26	P40

BAGUE FILETEE ENTRE

Y3-412162-0083	BAGUE FILENTRE M8x1 6g	555101	86,64	P41
Y3-412162-0103	BAGUE FILENTRE M10x1 6g	555104	97,44	P41
Y3-412162-0104	BAGUE FILENTRE M10x1,25 6g	555105	100,67	P41
Y3-412162-0125	BAGUE FILENTRE M12x1,5 6g	555107	108,24	P41
Y3-412162-0145	BAGUE FILENTRE M14x1,5 6g	555109	115,92	P41
Y3-412162-0165	BAGUE FILENTRE M16x1,5 6g	555111	126,67	P41
Y3-412162-0185	BAGUE FILENTRE M18x1,5 6g	555113	137,52	P41
Y3-412162-0205	BAGUE FILENTRE M20x1,5 6g	555115	148,40	P41
Y3-412162-0225	BAGUE FILENTRE M22x1,5 6g	555117	159,18	P41
Y3-412162-0245	BAGUE FILENTRE M24x1,5 6g	555119	170,00	P41
Y3-412162-0255	BAGUE FILENTRE M25x1,5 6g	555120	196,25	P41

BAGUE FILETEE ENTRE PAS

Y3-422162-0083	BAGUE FILENTRE PAS M8x1 6g	555162	86,64	P41
Y3-422162-0103	BAGUE FILENTRE PAS M10x1 6g	555165	97,44	P41
Y3-422162-0104	BAGUE FILENTRE PAS M10x1,25 6g	555166	100,67	P41
Y3-422162-0125	BAGUE FILENTRE PAS M12x1,5 6g	555168	108,24	P41
Y3-422162-0145	BAGUE FILENTRE PAS M14x1,5 6g	555170	115,92	P41
Y3-422162-0165	BAGUE FILENTRE PAS M16x1,5 6g	555172	126,67	P41
Y3-422162-0185	BAGUE FILENTRE PAS M18x1,5 6g	555174	137,52	P41
Y3-422162-0205	BAGUE FILENTRE PAS M20x1,5 6g	555176	148,40	P41
Y3-422162-0225	BAGUE FILENTRE PAS M22x1,5 6g	555178	159,18	P41
Y3-422162-0245	BAGUE FILENTRE PAS M24x1,5 6g	555180	170,00	P41

TAMPON FILETE DOUBLE

S3-302180-3123	TAMPON FIL DBLE G1/8 TOLA	555039	97,42	P42
S3-302180-3127	TAMPON FIL DBLE G1/4 TOLA	555038	105,45	P42
S3-302180-3129	TAMPON FIL DBLE G3/8 Td.A	555076	118,64	P42
S3-302180-3131	TAMPON FIL DBLE G1/2 Td.A	555077	133,23	P42
S3-302180-3135	TAMPON FIL DBLE G3/4 Td.A	555078	149,32	P42
S3-302180-3139	TAMPON FIL DBLE G1 Td.A	555079	167,43	P42

BAGUE FILETEE ENTRE

Y3-412180-3129	BAGUE FILENTRE G3/8 A	555137	142,38	P42
Y3-412180-3131	BAGUE FILENTRE G1/2 A	555138	170,00	P42
Y3-412180-3133	BAGUE FILENTRE G5/8 A	555139	204,18	P42
Y3-412180-3135	BAGUE FILENTRE G3/4 A	555140	198,23	P42
Y3-412180-3139	BAGUE FILENTRE G1 A	555141	245,84	P42

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BAGUE FILETEE ENTRE PAS				
Y3-422180-3129	BAGUE FILENTRE PAS G3/8 Td.A	555193	142,38	P42
Y3-422180-3131	BAGUE FILENTRE PAS G1/2 Td.A	555194	170,00	P42
Y3-422180-3133	BAGUE FILENTRE PAS G5/8 Td.A	555195	204,18	P42
Y3-422180-3135	BAGUE FILENTRE PAS G3/4 Td.A	555196	198,23	P42
Y3-422180-3139	BAGUE FILENTRE PAS G1 Td.A	555197	245,84	P42

TAMPON FILETE DOUBLE

S3-332100-4629	TAMPON FIL DBLE 3/8-18 NPT	555080	118,64	P43
S3-332100-4631	TAMPON FIL DBLE 1/2-14 NPT	555081	133,23	P43
S3-332100-4635	TAMPON FIL DBLE 3/4-14 NPT	555082	149,32	P43
S3-332100-4639	TAMPON FIL DBLE 1-11.1/2 NPT	555083	167,43	P43

PORTE-FILIERE

V0-103000-2005	PORTE-FILIERE CAGE 20X5 M3M4	428039	8,72	P44
V0-103000-2509	PORTE-FILIERE CAGE 25 M7M9	428035	10,15	P44
V0-103000-3011	PORTE-FILIERE CAGE 30X11 M10M11	428040	11,11	P44
V0-103000-3814	PORTE-FILIERE CAGE 38 M12M14	428036	14,23	P44
V0-103000-4518	PORTE-FILIERE CAGE 45X18 M16M20	428041	18,46	P44
V0-103000-5522	PORTE-FILIERE CAGE 55 M22M26	428037	29,60	P44

TOURNEA GAUCHE

V0-303000-0204	TOURNE A GAUCHE N°0 CARRE 24,5	428030	10,32	P44
v0-303000-0309	TOURNE A GAUCHE N°2 CARRE 3,55-9	428031	17,96	P44
v0-303015-0207	TOURNE A GAUCHE N°1,5	428016	17,33	P44
v0-303040-0516	TOURNE A GAUCHE N°4 carré 5,6-16	428019	33,02	P44

BRASTARAUDAGE

P0-130000-10312	BRAS TARAUDAGE P0-130000-10312	045745	2622,38	P45
P0-130000-10316	BRAS TARAUDAGE P0-130000-10316	045746	3937,50	P45
P0-130000-10322	BRAS TARAUDAGE P0-130000-10322	045747	5512,50	P45

RENVOI D'ANGLE

P0-133000-00890	RENVOI D'ANGLE PR BRAS TARAUDAGE	045742	331,80	P45
P0-133000-01290	RENVOI D'ANGLE PR BRAS TARAUDAGE	045748	331,80	P45
P0-133000-01690	RENVOI D'ANGLE PR BRAS TARAUDAGE	045743	449,40	P45
P0-133000-02290	RENVOI D'ANGLE PR BRAS TARAUDAGE	045744	449,40	P45
P0-133000-02790	RENVOI D'ANGLE PR BRAS TARAUDAGE	045749	449,40	P45

Grupy zastosowania narzędzi wysokowydajnych i ich przeznaczenie Material groups and the range of application		Materialgruppen und Einsatzgebiete	
800	Do stali konstrukcyjnych węglowych, automatycznych i niskostopowych o wytrzymałości Rm ≤ 800 MPa For carbon construction steels, free-cutting steels and low-alloy steels with tensile strength Rm ≤ 800 MPa Für Bau-, Automaten- und niedriglegierte Stähle mit Zugfestigkeit Rm ≤ 800 MPa		
800 Az	Odmiana 800 do otworów przelotowych w miękkich materiałach Rm ≤ 500 MPa Type 800 for through holes in soft materials Rm ≤ 500 MPa Type 800 für Durchgangslochen in weichen Materialien Rm ≤ 500 MPa		
1300	Do stali konstrukcyjnych, narzędziowych i stopowych o wytrzymałości 700 MPa ≤ Rm ≤ 1300 MPa For construction steels, alloyed steels with hardness 700 MPa ≤ Rm ≤ 1300 MPa Für Bau-, Werkzeug- und legierte Stähle mit Zugfestigkeit 700 MPa ≤ Rm ≤ 1300 MPa		
INOX	Do stali wysokostopowych, nierdzewnych i kwasoodpornych o wytrzymałości Rm ≤ 1000 MPa For high-alloy steels, stainless and acid resistant steels with tensile strength Rm ≤ 1000 MPa Für hochlegierte, rost- und säurebeständige Stähle mit Zugfestigkeit Rm ≤ 1000 MPa		
FAN	Do stali narzędziowych i trudnoobrabialnych o wytrzymałości 800 MPa ≤ Rm ≤ 1200 MPa oraz ulepszonej cieplnie do 38 HRC For tool steels and difficult workable steels with tensile strength 800 MPa ≤ Rm ≤ 1200 MPa and for heat-treatable steels up to 38 HRC Für Werkzeug- und schwer bearbeitende Stähle mit Zugfestigkeit 800 MPa ≤ Rm ≤ 1200 MPa		
TI	Do obróbki tytanu i jego stopów For titanium and their alloys Für Titan und ihre Legierungen		
Ni	Do obróbki niklu i jego stopów For nickel and their alloys Für Nickel und ihre Legierungen		
1400	Do stali trudnoobrabialnych i żaroodpornych o wytrzymałości 1000 MPa ≤ Rm ≤ 1400 MPa oraz ulepszonej cieplnie do 44 HRC For difficult workable steels, acid resistant steels with tensile strength 1000 MPa ≤ Rm ≤ 1400 MPa and for heat-treatable steels up to 44 HRC Für schwer bearbeitende und hitzbeständige Stähle mit Zugfestigkeit 1000 MPa ≤ Rm ≤ 1400 MPa		
HRC	Do materiałów w stanie zahartowanym. Liczba obok symbolu oznacza maksymalną twardość materiału obrabianego w skali HRC For hardened steels, number next to symbol indicate material hardness HRC scale Für Werkstoffe in gehärtetem Zustand. Die Zahl neben dem Symbol bezeichnet die maximale Härte des Werkstoffs in HRC		
GG	Do żeliwa szarego i sferoidalnego For grey cast iron and spheroidal cast iron Für Grauguss und Sphäroguss		
GAL	Do odlewniczych stopów aluminium o zawartości Si max. 10% For Aluminium alloys Si ≤ 10% Für Alulegerungen Si ≤ 10%		
AL	Do miękkiego aluminium For soft aluminium Für weiche Aluminium		
Ms	Do mosiądzu i brązu krótkowiórowego For brass and short-chipping bronze Für Messing und kurzspannend Bronze		
S-NC	Szczególnie do gwintowania synchronicznego na obrabiarkach CNC z oprawką "soft-synchro" szerokiej gamy materiałów For synchro tapping on CNC machines with the tap holder "soft synchro" for wide range of materials Für Synchrobearbeitung		
NC	Do wydajnej obróbki szerokiej gamy materiałów średnio i długowiórowych o wytrzymałości do Rm ≤ 1200 MPa For productive cutting of wide range materials, forming middle and long chips with tensile strength Rm ≤ 1200 MPa Für produktivere Bearbeitung der breiten Palette von mittel- und langspannenden Werkstoffen mit Zugfestigkeit Rm ≤ 1200 MPa		
WGA	Wygniatki do obróbki materiałów o dużej adhezji Forming taps for machining materials with a high adhesion Gewindeformer für adhesiven Werkstoffe		
WGN	Wygniatki do obróbki materiałów plastycznych o ciągliwości A ₂ ≥ 10% Forming taps for plastic materials with ductility A ₂ ≥ 10% Gewindeformer für plastische Materiale mit Zähigkeit A ₂ ≥ 10%		
WGC	Wygniatki do obróbki materiałów o ograniczonej ciągliwości Forming taps for machining materials with reduced toughness Gewindeformer für Werkstoffe mit beschränkter Dehnbarkeit		

Chłodziwo / Coolant / Kühlmittel	
E	Emulsja Emulsion Emulsion
O	Olej Oil Schneidöl
P	Pasta do gwintowania Threading paste Schmierpaste
Prędkość skrawania Vc / Cutting speed Vc / Schnittgeschwindigkeiten Vc	
10-15	Narzędzie zalecane Tool recommended Beforzugt geeignet
10-15	Narzędzie możliwe do zastosowania Tool can be used Geeignet
	Obróbka ręczna Manual processing Handbearbeitung
<p>Podane w tabeli prędkości skrawania mają charakter orientacyjny. Rzeczywiste prędkości należy dobrać doświadczalnie.</p> <p>The speed values are orientational. The speed should be adjusted experimentally.</p> <p>Die angegebenen Schnittgeschwindigkeiten sind Richtwerte. Schnittgeschwindigkeit bei Proben anzupassen.</p>	
Geometria wiertel / Drills geometry / Geometrie	
λ	Kąt spirali rowków Helix angle Drallwinkel
δ	Kąt wierzchołkowy Point angle Spitzenwinkel

Rm [MPa]	Twardość HB Hardness HB Härte HB	Twardość HRC Hardness HRC Härte HRC	Przykład materiału Material example Material-Beispiele	Nr materiału Material number Material-Nummern	Rodzaj wióra Type of chips Spantype	
P						
< 500	<150	-	R-Fe 80	1.1014	Bardzo długi / Extra long / Extra lang	1.1
300+500	100+150	-	9 S 20	1.0711	Długi / Long / Lang	1.2
400+800	120+240	-	C45	1.0503	Długi / Long / Lang	1.3
800+1000	240+300	22+32	41Cr4	1.7035	Długi / Long / Lang	1.4
1000+1200	-	32+38	42CrMo4	1.7225	Długi, średni / Long, middle / Mittel	1.5
1200+1400	-	38+44	50CrV4	1.8159	Średni / Middle / Mittel	1.6
M						
400+900	120+260	-	X46Cr13 (4H13)	1.4034	Długi / Long / Lang	2.1
500+900	150+260	-	X5CrNi18-10 (OH18N9)	1.4301	Długi / Long / Lang	2.2
500+1200	150+350	-	X2CrNiMoN22-5-3	1.4462	Długi / Long / Lang	2.3
K						
400+600	120+180	-	EN-GJL-300(ZL300)	EN-JL-1050	Bardzo krótki / Very short / Sehr Kurz	3.1
400+800	120+240	-	GTS-35-10	EN-GJMB-350-10	Krótki, średni / Short, middle / Kurz, mittel	3.2
400+900	120+260	-	EN-GJS-700-2(Zs70002)	EN-JS-1070	Krótki, średni / Short, middle / Kurz, mittel	3.3
N						
< 500	< 150	-	Al99,7	EN AW-1070A	Bardzo długi / Extra long / Extra lang	4.1
< 700	< 210	-	EN AC-AIMg5	EN AC-51300	Średni, krótki / Middle, short / Mittel, kurz	4.2
< 900	< 260	-	GD-AISI12Fe	EN AC-44300	Krótki / Short / Kurz	4.3
< 400	< 120	-	E-Cu 57	EN CW 004 A	Bardzo długi / Extra long / Extra lang	4.4
< 600	< 180	-	CuZn37 (Ms63)	EN CW 508 L	Długi / Long / Lang	4.5
< 600	< 180	-	CuZn36Pb3 (Ms58)	EN CW 603 N	Bardzo krótki / Very short / Sehr Kurz	4.6
< 800	< 240	-	CuAl10Ni5Fe4	EN CW 307 G	Długi / Long / Lang	4.7
< 800	< 240	-	CuSn8P	EN CW 459 K	Długi / Long / Lang	4.8
< 400	< 120	-	CuSn7 ZnPb (Rg7)	2.1090	Krótki / Short / Kurz	4.9
< 400	< 180	-	MgAl6Zn	3.5612	Krótki / Short / Kurz	4.10
-	-	-	Bakelit, Pertinax	-	Krótki / Short / Kurz	4.11
-	-	-	PMMA, POM, PVC	-	Bardzo długi / Extra long / Extra lang	4.12
-	-	-	GFK, CFK, AFK	-	Krótki / Short / Kurz	4.13
S						
500+600	150+180	-	Ti99,4 (T4)	3.7055	Bardzo długi / Extra long / Extra lang	5.1
700+1200	210+350	20+38	Ti6Al4V	3.7165	Krótki, średni / Short, middle / Kurz, mittel	5.2
< 600	< 170	-	Ni 99,2	2.4060	Bardzo długi / Extra long / Extra lang	5.3
< 1400	< 410	< 44	Inconel 718	2.4668	Długi / Long / Lang	5.4
H						
-	-	< 50 HRC	Weldox 1100	-	Krótki / Short / Kurz	6.1
-	-	< 55 HRC	Hardox 500	-	Krótki / Short / Kurz	6.2
-	-	< 60 HRC	Armox 600T	-	Krótki / Short / Kurz	6.3
-	-	< 65 HRC	HSSE	-	Krótki / Short / Kurz	6.4



INFORMACJE TECHNICZNE

TECHNICAL INFORMATIONS

TECHNISCHE INFORMATIONEN

Wykonanie Execution Ausführung		Wykonanie-rowki Execution-flutes Ausführung-Nute			Rodzaj materiału Material Werkstoff			
Az	Wycinane zęby Interrupted threads Ausgesetzte Zähne		Rowki proste Straight flutes Gerade Nuten		HSS	Stal szybko tnąca molibdenowa High speed molibden steel Schnellarbeitstahl		
IK	Wewnętrzne chłodzenie Internal cooling Innere Kühlschmierstoff-Zufuhr axial		Rowki proste ze skośną powierzchnią natarcia Straight flutes with spiral point Gerade Nuten mit Schälanschnitt		HSSE HSCo5	Stal szybko tnąca kobaltowa High speed cobalt steel Hochleistungs-/Kobalt-Schnellarbeitstahl		
IKR	Promieniowe wewnętrzne chłodzenie Radial internal cooling Innere Kühlschmierstoff-Zufuhr adial		Rowki śrubowe lewe Left spiral flutes Linksspirale		HSSE PM	Stal szybko tnąca proszkowa High speed powder steel Hochleistungs-Pulverstahl		
SR	Rowki smarowe Oil flutes Schmiernuten		Rowki śrubowe prawe Right spiral flutes Rechtsspirale		VHM	Stosowana do średnicy Ø16mm, powyżej na zapytanie Applied up to Ø16mm diameter, over for request Bis Durchmesser Ø16 mm angewandt, darüber-auf Anfrage		
LH	Gwint lewy Left-hand thread Linksgewinde							
EL	Gwintownik o podwojonej długości całkowitej Enlarged total length of tap 1,x2 Doppelte total Gewindelänge							
LF	Wydłużone rowki i długość całkowita, łamacz wióra Extended flutes and overall length, chip breaker Die verlängerte Spannute und Gesamtlänge, mit Spannbrecher							
SPN	Skośna powierzchnia natarcia Spiral point Schälanschnitt							
Typ otworu Hole type Lochform		Nakrój Chamfer Anschnitt			Rodzaj powłoki Coating Beschichtung			
	Przelotowy Through Durchgangslloch	A		6 ÷ 8P	5°	TiN	BALINIT A®	
	Nierzelotowy Blind Sackloch	B		3,5 ÷ 5,5P	8°	TiCN	BALINIT B®	
		C		2 ÷ 3P	15°	TiAlN	BALINIT FUTURA NANO®	
		D		3,5 ÷ 5P	8°	HL	BALINIT HARDLUBE®	
		E		1 ÷ 2P	23°	OX	Pasywacja / Oxidation / Dampfangelassen	

	Material obrabiany	Range of application - material	Einsatzgebiete-Material
Grupa materiałowa / Material group / Werkstoffgruppe	P Stal	Steel	Stahl
	1.1 Stal magnetyczna, stal konstrukcyjna miękka	Magnetic steel, Construction soft steel	Magnetweicheisen
	1.2 Stal automatowa, stal konstrukcyjna, stal do nawęglania	Free-cutting steels, Constructional and carburizing steel	Automatenstähle, Baustähle
	1.3 Stal konstrukcyjna węglowa i niskostopowa, staliwo	Constructional and carbon steel, low-alloy steel, cast steel	Baustähle, Niedriglegierte Stähle, Stahlguss
	1.4 Stal do ulepszenia cieplnego, stal stopowa, stal narzędziowa	Alloy steel, cold-work tool steel	Legierte Stähle, Kaltarbeitsstähle
	1.5 Stal ulepszana cieplnie do 38 HRC	Tempered steel up to 38 HRC	Gehärtete Stähle Gehärtete bis 38 HRC
	1.6 Stal wysokostopowa hartowana do 44 HRC	High-alloyed steels hardened up to 44 HRC	Hochlegierte Stähle Gehärtete bis 44HRC
	M Stal nierdzewna	Stainless steel	Nichtrostende Stahl
	2.1 Ferrytyczna, martenzytyczna	Ferritic, martensitic	Ferritisch, martensitisch
	2.2 Austenityczna	Austenitic	Austenitisch
	2.3 Austenityczno-ferrytyczne (Duplex)	Austenitic-ferritic (Duplex)	Austenitisch-ferritisch (Duplex)
	K Żeliwo	Cast materials	Gusswerkstoffe
	3.1 Żeliwo szare	Grey cast iron	Gusseisen
	3.2 Żeliwo ciągliwe	Malleable cast iron	Gusseisen Temperguss
	3.3 Żeliwo sferoidalne	Spheroidal cast iron	Gusseisen
	N Materiały nieżelazne	Non ferrous materials	Nichteisenwerkstoffe
	Stopy aluminium	Aluminium alloys	Aluminium-Legierungen
	4.1 Aluminium niestopowe	Unalloyed aluminium	Reinaluminium
	4.2 Stopy aluminium 1% < Si < 7%	Aluminium alloys 1% < Si < 7%	Alulegierungen 1% < Si < 7%
	4.3 Stopy aluminium Si ≥ 7%	Aluminium alloys Si ≥ 7%	Alulegierungen Si ≥ 7%
	Miedź i stopy miedzi	Copper alloys	Kupfer-Legierungen
	4.4 Miedź niestopowa i czystostopowa	Pure copper, low-alloyed copper	Reinkupfer, niedriglegiertes Kupfer
	4.5 Mosiądz (długi wiór)	Copper-zinc alloys (brass, long-chipping)	Kupfer-Zink-Legierungen (langspanend)
	4.6 Mosiądz (krótki wiór)	Copper-zinc alloys (brass, short-chipping)	Kupfer-Zink-Legierungen (kurzspanend)
	4.7 Brąz aluminiumowy (długi wiór)	Copper-aluminium alloys (long-chipping)	Kupfer-Aluminium-Legierungen (langspanend)
	4.8 Brąz cynowy (długi wiór)	Copper-tin alloys (long-chipping)	Kupfer-Zinn-Legierungen (angspanend)
	4.9 Brąz cynowy (krótki wiór)	Copper-tin alloys (short-chipping)	Kupfer-Zinn-Legierungen (kurzspanend)
	Stopy magnezu	Magnesium alloys	Magnesium-Legierungen
	4.10 Kute	Magnesium wrought alloys	Magnesium-Knetlegierungen
	Materiały syntetyczne	Synthetics	Kunststoffe
	4.11 Duroplasty (krótki wiór)	Duroplastics (short-chipping)	Duroplaste (kurzspanend)
	4.12 Termoplasty (długi wiór)	Thermoplastics (long-chipping)	Thermoplaste (langspanend)
4.13 Tworzywa wzmocnione włóknami	Fibre-reinforced synthetics	Faserverstärkte Kunststoffe	
S Materiały specjalne	Special materials	Spezialwerkstoffe	
Tytan	Titanium alloys	Titan-Legierungen	
5.1 Tytan niestopowy	Pure titanium	Reintitan	
5.2 Stopy tytanu	Titanium alloys	Titan-Legierungen	
Superstopy żaroodporne	Heat resistant super alloys	Warmfesten Superlegierungen	
5.3 Nikiel niskostopowy	Pure nickel	Reinnickel	
5.4 Stopy niklu	Nickel alloys	Nickellegierungen	
H Materiały twarde	Hard materials	Harte Werkstoffe	
6.1			
6.2	Stale o dużej wytrzymałości, stale hartowane, twarde odlewy	High strength steels, hardened steels, hard castings	Hochfeste Stähle, gehärtete Stähle, Hartguss
6.3			
6.4			

TABELA OBRABIANYCH MATERIAŁÓW / MATERIAL GROUPS TABLE / WERKSTOFFTABELLE

	Materiał obrabiany	Material	Werkstoff	PN	DIN	Nr	Rm MPa	HB	HRC
P	Stal	Steel	Stahlwerkstoffe						
1.1	Stal magnetyczna, stal konstrukcyjna miękka	Magnetic steel, Construction soft steel	Magnetweicheisen		Q-St37-3 R-Fe 80	1.0123 1.1014	≤400	≤119	-
1.2	Stal automatowa, stal konstrukcyjna, stal do nawęglania	Free-cutting steels, Constructional and carburizing steel	Automatenstähle, Baustähle	A10X St08 St3S	9 S 20 9 SMn 28 St33-1 St37-3 C10	1.0711 1.0715 1.0035 1.0116 1.0301	370-450 390-580 280-530 370-450 410-540	110+130 115+170 85+155 110+130 120+160	-
1.3	Stal konstrukcyjna węglowa i niskostopowa, stalowo	Constructional and carbon steel, low-alloy steel, cast steel	Baustähle, Niedriglegierte Stähle, Stahlguss	A35 18GZA 45 St5 L40GM	35S20 St52-3 9SMnPb28 C 45 St50-2 GS40Mn5	1.0726 1.0570 1.0718 1.0503 1.0050 1.1168	510-880 450-680 380-810 650-800 450-640 750-850	150+260 130+200 110+240 190+240 130+190 220+250	-
1.4	Stal do ulepszenia cieplnego, stal stopowa, stal narzędziowa	Alloy steel, cold-work tool steel	Legierte Stähle, Kaltarbeitsstähle	55 60 38HMJ 40H NC4	C55 C60 41CrAlMo7 41Cr4 100Cr6	1.0535 1.0601 1.8509 1.7035 1.2067	750-900 850-1000 800-1000 880-1030	220+265 250+300 240+300 260+302	- 25+31 26+32
1.5	Stal ulepszana cieplnie do 38 HRC	Tempered steel up to 38 HRC	Gehärtete Stähle Gehätete bis 38 HRC	30H2N2M 35HM 37HGNM 38HNM 40HM	30CrNiMo8 34CrMo4 40NiCrMo2 36CrNiMo4 42CrMo4	1.6546 1.7220 1.6546 1.6511 1.7225	980-1180 980-1130 1000-1200 1030-1230 880-1200	290+350 290+335 295+355 335+365 260+355	30+37 30+36 31+38 33+39 26+32
1.6	Stal wysokostopowa hartowana do 44 HRC	High-alloyed steels hardened up to 44 HRC	Hochlegierte Stähle Gehätete bis 44HRC	40HNMA 40H2MF WNL SW7M 50HF	55NiCrMoV6 S6-5-2 50CrV4	1.2713 1.3343 1.8159	1180-1370 1230-1420 800 880 1280-1450	350+405 360+420 240 260 375+430	37+43 39+45 23 26 40+45
M	Stal nierdzewna	Stainless steel	Nichtrostende Stahl						
2.1	Ferrytyczna, martenzytyczna	Ferritic, martensitic	Ferritisch, martensitisch	4H13 1H13 H17 2H17N2	X 46 Cr 13 X 12 Cr 13 X 6 Cr 17 X 17 Cr Ni 16 2	1.4034 1.4006 1.4016 1.4057	≤ 800 650-850 400-630 900-1050	≤235 190+250 120+185 265+310	- - - 27+33
2.2	Austenityczna	Austenitic	Austenitisch	0H18N9 00H17N14M2 00H18N10 1H18N9T H18N10MT	X5CrNi18 10 X2CrNiMo17 13 2 X2CrNi18 9 X6CrNi18 10 X6CrNiMoTi17 12 2	1.4301 1.4404 1.4306 1.4541 1.4571	500-700 500-700 460-680 500-700 500-700	150+205 150+205 135+200 150+205 150+205	-
2.3	Austenityczno-ferrytyczne (Duplex)	Austenitic-ferritic (Duplex)	Austenitisch-ferritisch (Duplex)		X2CrNiMoN22-5-3 X2CrNiMoCuN25-6-3 X2CrNiMoN25-7-4	1.4462 1.4507 1.4410	500-1200 700-900 730-930	150+350 270 290	- - -
K	Żeliwo	Cast materials	Gusswerkstoffe						
3.1	Żeliwo szare	Grey cast iron	Gusseisen	ZI 150 ZI 200 ZI 250 ZI 300	GG 15 GG 20 GG 25 GG 30	0.6015 0.6020 0.6025 0.6030	110-150 150-200 200-250 240-270		- - - -
3.2	Żeliwo ciągliwe	Malleable cast iron	Gusseisen Temperguss		GTS-35-10 GTS-45-06 GTS-55-04 GTW-35-04	0.8135 0.8145 0.8155 0.8035	400+800 450 550 350	120+240 150+200 165 105	- - - -
3.3	Żeliwo sferoidalne	Spheroidal cast iron	Gusseisen	Zs40012 Zs50007 Zs60002 Zs70002	GGG 40 GGG 50 GGG 60 GGG 70	0.7040 0.7050 0.7060 0.7070	400 500 600 700	120 150 180 205	- - - -
N	Materiały nieżelazne	Non ferrous materials	Nichteisenwerkstoffe						
	Stopy aluminium	Aluminium alloys	Aluminium-Legierungen						
4.1	Aluminium niestopowe	Unalloyed aluminium	Reinaluminium	Al 99.99 A00 A1 A2	Al 99.99 Al 99.8A Al 99.5 Al 99.0	3.0305	≥8 ≥75 ≥8 ≥90	15 19 15 23	- - - -
4.2	Stopy aluminium 1% < Si < 7%	Aluminium alloys 1% < Si < 7%	Alulegierungen 1% < Si < 7%	PA31 PA43 PA7 PA9	Al Cu Si Mn Al Mg 1 Al Cu Mg 2 Al Zn Mg Cu 0,5 G-Al Si 5 Mg	3.1255 3.3315 3.1355 3.4345 3.2341	350 100+185 360+440 490+530 140+300	95 29+48 105+125 130+140 ≤90	- - - - -
4.3	Stopy aluminium Si ≥ 7%	Aluminium alloys Si ≥ 7%	Alulegierungen Si ≥ 7%	AK7 AK11 Ak11 AK12	G-Al Si 7 Mg G-Al Si 10 Mg G-D-Al Si 10 Mg G-Al Si 12	3.2371 3.2381 3.2382 3.2581	160+210 160+280 220+280 200+220	50+65 50+80 60+80 95	- - - -
	Miedź i stopy miedzi	Copper alloys	Kupfer-Legierungen						
4.4	Miedź niestopowa i czystostopowa	Pure copper, low-alloyed copper	Reinkupfer, niedriglegiertes Kupfer	Cu 99, 95 B Cu 99, 99 B Cu 99,7 G	Cu - OF	2.0040			- - -
4.5	Mosiądz (długi wiór)	Copper-zinc alloys (brass, long-chipping)	Kupfer-Zink-Legierungen (langspanend)	M 63 M 85	Cu Zn 37 Cu Zn 15	2.0321 2.0240			- -
4.6	Mosiądz (krótki wiór)	Copper-zinc alloys (brass, short-chipping)	Kupfer-Zink-Legierungen (kurzspanend)	MO 59 MO 58	Cu Zn 39 Pb 3 Cu Zn 40 Pb 2	2.0401 2.0402	250+270 250+270	70+75 70+75	- -
4.7	Brąz aluminiowy (długi wiór)	Copper-aluminium alloys (long-chipping)	Kupfer-Aluminium-Legierungen (langspanend)	BA5 BA8 BA93 BA1032	Cu Al 5 Cu Al 8 Cu Al 9 Fe 3 Cu Al 9 Mn 2	2.0916 2.0932 2.0940 2.0966	450+500 500+550	100+110 100+110	- -
4.8	Brąz cynowy (długi wiór)	Copper-tin alloys (long-chipping)	Kupfer-Zinn-Legierungen (angspanend)	B10 B8	CuSn10 CuSn8P	2.1050 2.1030	270 450	80 133	- -
4.9	Brąz cynowy (krótki wiór)	Copper-tin alloys (short-chipping)	Kupfer-Zinn-Legierungen (kurzspanend)		CuSn7ZnPb CuPb5Sn5 CuPb10Sn	2.1090 2.1170 2.1176	≤600 ≤600 ≤600		- - -
	Stopy magnezu	Magnesium alloys	Magnesium-Legierungen						
4.10	Kute	Magnesium wrought alloys	Magnesium-Knetlegierungen		MgAl6Zn MgMn2 MgAl8Zn	3.5612 3.5200 3.5812			- - -
	Syntetyczne	Synthetics	Kunststoffe						
4.11	Duroplasty (krótki wiór)	Duroplastics (short-chipping)	Duroplaste (kurzspanend)		Bakelit Novopan Resopal Moltopren				- - - -
4.12	Termoplasty (długi wiór)	Thermoplastics (long-chipping)	Thermoplaste (langspanend)		Polyamid Polystyrol Polyvinylchlorid Ultramid	0.6025 0.6030 0.6035 0.6040			- - - -
4.13	Tworzywa wzmocnione włóknami	Fibre-reinforced synthetics	Faserverstärkte Kunststoffe		GFK CFK AFK				- - -
S	Materiały specjalne	Special materials	Spezialwerkstoffe						
	Tytan	Titanium alloys	Titan-Legierungen						
5.1	Tytan niestopowy	Pure titanium	Reintitan	Ti 99	Ti 4	3.7064	500	150	-
5.2	Stopy tytanu	Titanium alloys	Titan-Legierungen	Ti 6 Al 4 V Ti 3 Al 2,5 V Ti 5 Al 2,5 Sn	Ti Al 6 V 4 Ti Al 3 V 2, 5 Ti 5 Al 2, 5 Sn	3.7165 3.712	890 790	260 235	- -
	Superstopy żaroodporne	Heat resistant super alloys	Warmfesten Superlegierungen						
5.3	Nikiel niskostopowy	Pure nickel	Reinnickel	Ni 99, 6	Ni 99, 2	2.4060	500	150	-
5.4	Stopy niklu	Nickel alloys	Nickellegierungen	Monel 400 INCONEL 600 INCONEL 718 HASTELOYC4	Ni Cu 30 Fe Ni Cr 15 Fe Ni Cr19 Ni6 Mo Ni Mo 16 Cr 16 Ti	2.4360 2.4816 2.4668 2.4610	570 680 1350 900	170 200 400 265	- - 42 -
H	Materiały twarde	Hard materials	Harte Werkstoffe						
6.1	Stale o dużej wytrzymałości, stale hartowane, twarde odlewy	High strength steels, hardened steels, hard castings	Hochfeste Stähle, gehätete Stähle, Hartguss	Weldox1100 Hardox 500 Armox 600T HSSE					< 50 < 55 < 60 < 65

JAK DOBRAĆ I ZAMÓWIĆ PRODUKT?

1. W tabeli doboru odszukać materiał obrabiany
2. Wybrać wykonanie w danej grupie narzędzi
3. Odszukać nr strony w katalogu dla wybranego rodzaju gwintu
4. Odszukać wykonanie narzędzia na wskazanej stronie katalogowej
5. Wybrać właściwy wymiar gwintu
6. Zbudować indeks i nazwę

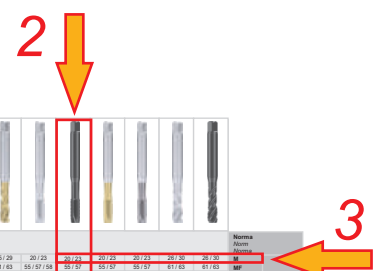


HOW TO SELECT AND ORDER THE PRODUCT?

1. In the selection table locate the workpiece material
2. Select execution of tool
3. Find the page number in the catalog for the selected type of thread
4. Find the tool execution on specified page
5. Select the correct thread size
6. Make an index and name

WIE EIN PRODUKT WÄHLEN UND BESTELLEN?

1. In der Anwendungstabelle das bearbeitenden Werkstoff aussuchen
2. Die Werkzeugausführung wählen
3. Seite im Katalog für gewünschte Gewindeart aussuchen
4. Gewünschte Werkzeugausführung auf der angegebenen Katalogseite aussuchen
5. Gewünschte Gewindegröße aussuchen
6. Bestellnummer und Bezeichnung des ausgesuchten Werkzeugs definieren



DIN 371 / DIN 376												Name / Nom			
DIN 371 / DIN 376												DIN 371 / DIN 376			
DIN 371 / DIN 376												DIN 371 / DIN 376			
15 / 17	15 / 17	19 / 22	19 / 22	19 / 22	19 / 22	25 / 28	25 / 28	25 / 28	25 / 28	25 / 28	25 / 28	25 / 28	25 / 28	25 / 28	M
30 / 32	30 / 32	36 / 37	36 / 37	36 / 37	36 / 37	41 / 43	41 / 43	41 / 43	41 / 43	41 / 43	41 / 43	41 / 43	41 / 43	41 / 43	M
75 / 77	75 / 77	75 / 77	75 / 77	75 / 77	75 / 77	81 / 83	81 / 83	81 / 83	81 / 83	81 / 83	81 / 83	81 / 83	81 / 83	81 / 83	M
81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	M
91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	M
100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	100 / 102	M
100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	100 / 104	M
105	105														M



Material obrabiany	Range of application - material	Einsatzgebiete-Material
P Steel	Steel	Steel
P1 Steel magnetics, steel constructional	Magnetic steel, construction soft steel	Magnetschweissen
P2 Steel austenitic, steel constructional, steel in seawater	Free cutting steels, constructional and carburizing steel	Austenitische, Baustähle
P3 Steel constructional, steel in seawater, stainless	Constructional and carbon steel, low alloy steel, cast steel	Baustähle, Feingewichtestähle, Stahlgüsse
P4 Steel stainless austenitic, steel in seawater, steel superalloys	Alloy steel, tool-steel, tool steel	Legierte Stähle, Kälteverfestigte
P5 Steel stainless ferritic, steel in seawater, steel in HRC	Tempered steel up to 38 HRC	Gewichtete Stähle Gestecke bis 38 HRC
P6 Steel austenitic ferritic, steel in seawater, steel in HRC	High strength steels hardened up to 44 HRC	Hochlegierte Stähle Gestecke bis 44 HRC
M Steel nonferrous	Nonferrous metal	Nichtmetallische Stoffe
M1 Aluminum	Aluminum	Aluminium
M2 Aluminum 1% Si + 7%	Aluminum alloy 1% Si + 7%	Aluminiumlegierungen
M3 Aluminum 5% Si + 7%	Aluminum alloy 5% Si + 7%	Aluminiumlegierungen
M4 Aluminum 12% Si + 7%	Aluminum alloy 12% Si + 7%	Aluminiumlegierungen
M5 Aluminum 17% Si + 7%	Aluminum alloy 17% Si + 7%	Aluminiumlegierungen
M6 Aluminum 20% Si + 7%	Aluminum alloy 20% Si + 7%	Aluminiumlegierungen
M7 Aluminum 25% Si + 7%	Aluminum alloy 25% Si + 7%	Aluminiumlegierungen
M8 Aluminum 30% Si + 7%	Aluminum alloy 30% Si + 7%	Aluminiumlegierungen
M9 Aluminum 35% Si + 7%	Aluminum alloy 35% Si + 7%	Aluminiumlegierungen
M10 Aluminum 40% Si + 7%	Aluminum alloy 40% Si + 7%	Aluminiumlegierungen
M11 Aluminum 45% Si + 7%	Aluminum alloy 45% Si + 7%	Aluminiumlegierungen
M12 Aluminum 50% Si + 7%	Aluminum alloy 50% Si + 7%	Aluminiumlegierungen
M13 Aluminum 55% Si + 7%	Aluminum alloy 55% Si + 7%	Aluminiumlegierungen
M14 Aluminum 60% Si + 7%	Aluminum alloy 60% Si + 7%	Aluminiumlegierungen
M15 Aluminum 65% Si + 7%	Aluminum alloy 65% Si + 7%	Aluminiumlegierungen
M16 Aluminum 70% Si + 7%	Aluminum alloy 70% Si + 7%	Aluminiumlegierungen
M17 Aluminum 75% Si + 7%	Aluminum alloy 75% Si + 7%	Aluminiumlegierungen
M18 Aluminum 80% Si + 7%	Aluminum alloy 80% Si + 7%	Aluminiumlegierungen
M19 Aluminum 85% Si + 7%	Aluminum alloy 85% Si + 7%	Aluminiumlegierungen
M20 Aluminum 90% Si + 7%	Aluminum alloy 90% Si + 7%	Aluminiumlegierungen
M21 Aluminum 95% Si + 7%	Aluminum alloy 95% Si + 7%	Aluminiumlegierungen
M22 Aluminum 100% Si + 7%	Aluminum alloy 100% Si + 7%	Aluminiumlegierungen
M23 Aluminum 105% Si + 7%	Aluminum alloy 105% Si + 7%	Aluminiumlegierungen
M24 Aluminum 110% Si + 7%	Aluminum alloy 110% Si + 7%	Aluminiumlegierungen
M25 Aluminum 115% Si + 7%	Aluminum alloy 115% Si + 7%	Aluminiumlegierungen
M26 Aluminum 120% Si + 7%	Aluminum alloy 120% Si + 7%	Aluminiumlegierungen
M27 Aluminum 125% Si + 7%	Aluminum alloy 125% Si + 7%	Aluminiumlegierungen
M28 Aluminum 130% Si + 7%	Aluminum alloy 130% Si + 7%	Aluminiumlegierungen
M29 Aluminum 135% Si + 7%	Aluminum alloy 135% Si + 7%	Aluminiumlegierungen
M30 Aluminum 140% Si + 7%	Aluminum alloy 140% Si + 7%	Aluminiumlegierungen
M31 Aluminum 145% Si + 7%	Aluminum alloy 145% Si + 7%	Aluminiumlegierungen
M32 Aluminum 150% Si + 7%	Aluminum alloy 150% Si + 7%	Aluminiumlegierungen
M33 Aluminum 155% Si + 7%	Aluminum alloy 155% Si + 7%	Aluminiumlegierungen
M34 Aluminum 160% Si + 7%	Aluminum alloy 160% Si + 7%	Aluminiumlegierungen
M35 Aluminum 165% Si + 7%	Aluminum alloy 165% Si + 7%	Aluminiumlegierungen
M36 Aluminum 170% Si + 7%	Aluminum alloy 170% Si + 7%	Aluminiumlegierungen
M37 Aluminum 175% Si + 7%	Aluminum alloy 175% Si + 7%	Aluminiumlegierungen
M38 Aluminum 180% Si + 7%	Aluminum alloy 180% Si + 7%	Aluminiumlegierungen
M39 Aluminum 185% Si + 7%	Aluminum alloy 185% Si + 7%	Aluminiumlegierungen
M40 Aluminum 190% Si + 7%	Aluminum alloy 190% Si + 7%	Aluminiumlegierungen
M41 Aluminum 195% Si + 7%	Aluminum alloy 195% Si + 7%	Aluminiumlegierungen
M42 Aluminum 200% Si + 7%	Aluminum alloy 200% Si + 7%	Aluminiumlegierungen
M43 Aluminum 205% Si + 7%	Aluminum alloy 205% Si + 7%	Aluminiumlegierungen
M44 Aluminum 210% Si + 7%	Aluminum alloy 210% Si + 7%	Aluminiumlegierungen
M45 Aluminum 215% Si + 7%	Aluminum alloy 215% Si + 7%	Aluminiumlegierungen
M46 Aluminum 220% Si + 7%	Aluminum alloy 220% Si + 7%	Aluminiumlegierungen
M47 Aluminum 225% Si + 7%	Aluminum alloy 225% Si + 7%	Aluminiumlegierungen
M48 Aluminum 230% Si + 7%	Aluminum alloy 230% Si + 7%	Aluminiumlegierungen
M49 Aluminum 235% Si + 7%	Aluminum alloy 235% Si + 7%	Aluminiumlegierungen
M50 Aluminum 240% Si + 7%	Aluminum alloy 240% Si + 7%	Aluminiumlegierungen
M51 Aluminum 245% Si + 7%	Aluminum alloy 245% Si + 7%	Aluminiumlegierungen
M52 Aluminum 250% Si + 7%	Aluminum alloy 250% Si + 7%	Aluminiumlegierungen
M53 Aluminum 255% Si + 7%	Aluminum alloy 255% Si + 7%	Aluminiumlegierungen
M54 Aluminum 260% Si + 7%	Aluminum alloy 260% Si + 7%	Aluminiumlegierungen
M55 Aluminum 265% Si + 7%	Aluminum alloy 265% Si + 7%	Aluminiumlegierungen
M56 Aluminum 270% Si + 7%	Aluminum alloy 270% Si + 7%	Aluminiumlegierungen
M57 Aluminum 275% Si + 7%	Aluminum alloy 275% Si + 7%	Aluminiumlegierungen
M58 Aluminum 280% Si + 7%	Aluminum alloy 280% Si + 7%	Aluminiumlegierungen
M59 Aluminum 285% Si + 7%	Aluminum alloy 285% Si + 7%	Aluminiumlegierungen
M60 Aluminum 290% Si + 7%	Aluminum alloy 290% Si + 7%	Aluminiumlegierungen
M61 Aluminum 295% Si + 7%	Aluminum alloy 295% Si + 7%	Aluminiumlegierungen
M62 Aluminum 300% Si + 7%	Aluminum alloy 300% Si + 7%	Aluminiumlegierungen
M63 Aluminum 305% Si + 7%	Aluminum alloy 305% Si + 7%	Aluminiumlegierungen
M64 Aluminum 310% Si + 7%	Aluminum alloy 310% Si + 7%	Aluminiumlegierungen
M65 Aluminum 315% Si + 7%	Aluminum alloy 315% Si + 7%	Aluminiumlegierungen
M66 Aluminum 320% Si + 7%	Aluminum alloy 320% Si + 7%	Aluminiumlegierungen
M67 Aluminum 325% Si + 7%	Aluminum alloy 325% Si + 7%	Aluminiumlegierungen
M68 Aluminum 330% Si + 7%	Aluminum alloy 330% Si + 7%	Aluminiumlegierungen
M69 Aluminum 335% Si + 7%	Aluminum alloy 335% Si + 7%	Aluminiumlegierungen
M70 Aluminum 340% Si + 7%	Aluminum alloy 340% Si + 7%	Aluminiumlegierungen
M71 Aluminum 345% Si + 7%	Aluminum alloy 345% Si + 7%	Aluminiumlegierungen
M72 Aluminum 350% Si + 7%	Aluminum alloy 350% Si + 7%	Aluminiumlegierungen
M73 Aluminum 355% Si + 7%	Aluminum alloy 355% Si + 7%	Aluminiumlegierungen
M74 Aluminum 360% Si + 7%	Aluminum alloy 360% Si + 7%	Aluminiumlegierungen
M75 Aluminum 365% Si + 7%	Aluminum alloy 365% Si + 7%	Aluminiumlegierungen
M76 Aluminum 370% Si + 7%	Aluminum alloy 370% Si + 7%	Aluminiumlegierungen
M77 Aluminum 375% Si + 7%	Aluminum alloy 375% Si + 7%	Aluminiumlegierungen
M78 Aluminum 380% Si + 7%	Aluminum alloy 380% Si + 7%	Aluminiumlegierungen
M79 Aluminum 385% Si + 7%	Aluminum alloy 385% Si + 7%	Aluminiumlegierungen
M80 Aluminum 390% Si + 7%	Aluminum alloy 390% Si + 7%	Aluminiumlegierungen
M81 Aluminum 395% Si + 7%	Aluminum alloy 395% Si + 7%	Aluminiumlegierungen
M82 Aluminum 400% Si + 7%	Aluminum alloy 400% Si + 7%	Aluminiumlegierungen
M83 Aluminum 405% Si + 7%	Aluminum alloy 405% Si + 7%	Aluminiumlegierungen
M84 Aluminum 410% Si + 7%	Aluminum alloy 410% Si + 7%	Aluminiumlegierungen
M85 Aluminum 415% Si + 7%	Aluminum alloy 415% Si + 7%	Aluminiumlegierungen
M86 Aluminum 420% Si + 7%	Aluminum alloy 420% Si + 7%	Aluminiumlegierungen
M87 Aluminum 425% Si + 7%	Aluminum alloy 425% Si + 7%	Aluminiumlegierungen
M88 Aluminum 430% Si + 7%	Aluminum alloy 430% Si + 7%	Aluminiumlegierungen
M89 Aluminum 435% Si + 7%	Aluminum alloy 435% Si + 7%	Aluminiumlegierungen
M90 Aluminum 440% Si + 7%	Aluminum alloy 440% Si + 7%	Aluminiumlegierungen
M91 Aluminum 445% Si + 7%	Aluminum alloy 445% Si + 7%	Aluminiumlegierungen
M92 Aluminum 450% Si + 7%	Aluminum alloy 450% Si + 7%	Aluminiumlegierungen
M93 Aluminum 455% Si + 7%	Aluminum alloy 455% Si + 7%	Aluminiumlegierungen
M94 Aluminum 460% Si + 7%	Aluminum alloy 460% Si + 7%	Aluminiumlegierungen
M95 Aluminum 465% Si + 7%	Aluminum alloy 465% Si + 7%	Aluminiumlegierungen
M96 Aluminum 470% Si + 7%	Aluminum alloy 470% Si + 7%	Aluminiumlegierungen
M97 Aluminum 475% Si + 7%	Aluminum alloy 475% Si + 7%	Aluminiumlegierungen
M98 Aluminum 480% Si + 7%	Aluminum alloy 480% Si + 7%	Aluminiumlegierungen
M99 Aluminum 485% Si + 7%	Aluminum alloy 485% Si + 7%	Aluminiumlegierungen
M100 Aluminum 490% Si + 7%	Aluminum alloy 490% Si + 7%	Aluminiumlegierungen



Gwint metryczny zwykły ISO DIN-13		DIN-371					
ISO Metric coarse thread DIN-13		Metric ISO-Regelgewinde DIN-13					
ISO	HSSE	INOX	INOX	INOX	FAN	FAN	FAN
M1.4	0.3	40	7	2.5	2.1	1.1	0014
M1.6	0.35	40	8	2.5	2.1	1.25	0016
M1.7	0.30	40	8	2.5	2.1	1.3	0017
M1.8	0.35	40	8	2.5	2.1	1.45	0018
M2	0.4	45	8	2.8	2.1	1.6	0020
M2.5	0.45	50	9	2.8	2.1	2.05	0025
M2.8	0.45	50	9	2.8	2.1	2.1	0028
M3	0.5	56	10	3.5	2.7	2.5	0030
M3.5	0.6	56	12	20	4	3	0035
M4	0.7	63	12	21	4.5	3.4	0040
M4.5	0.75	70	14	25	5	4.9	0045
M5	0.8	70	14	25	5	4.9	0050
M6	1	80	16	30	6	4.9	0060
M7	1	80	16	30	7	5.5	0070
M8	1.25	90	20	35	8	6.2	0080
M9	1.25	90	20	35	9	7	0090
M10	1.5	100	20	30	10	8	0100



Przykład / Example / Beispiel:
C2-116801-0050
DIN-371 B M5 ISO2(6H) HSSE INOX OX

ISO metric thread DIN-13										800X					
										C-R40-TN	B-TN				
Material groups										P M K N	P M K N				
Hole type															
Type of material										HSSE	HSSE				
Coating										TN	TN				
Chamfer										C / 2-3P	B / 4-5P				
M • d ₁	P	l ₁	l ₂	l ₂ R40	l ₃	• d ₂	a		INDEX	DIN-371					
Tolerance										ISO2 (6H)	ISO2 (6H)				
M3	0,50	56	10	5	18	3,5	2,7	2,50	0030	●	●				
M4	0,70	63	12	7	21	4,5	3,4	3,30	0040	●	●				
M5	0,80	70	14	8	25	6,0	4,9	4,20	0050	●	●				
M6	1,00	80	18	10	30	6,0	4,9	5,00	0060	●	●				
M8	1,25	90	20	13	35	8,0	6,2	6,80	0080	●	●				
M10	1,50	100	20	15	39	10,0	8,0	8,50	0100	●	●				
MF • d ₁	P	l ₁	l ₂	l ₂ R40	l ₃	• d ₂	a		INDEX	DIN-371					
Tolerance										ISO2 (6H)	ISO2 (6H)				
M8x1	1,00	90	20	10		6,0	4,9	7,00	0083	●	●				
M10x1	1,00	90	20	13		7,0	5,5	9,00	0103	●	●				
M10x1,25	1,25	100	20	15		7,0	5,5	8,80	0104	●	●				
M • d ₁	P	l ₁	l ₂	l ₂ R40	l ₃	• d ₂	a		INDEX	DIN-376					
Tolerance										ISO2 (6H)	ISO2 (6H)				
M12	1,75	110	24	18		9,0	7,0	10,20	0120	●	●				
M14	2,00	110	25	20		11,0	9,0	12,00	0140	●	●				
M16	2,00	110	32	20		12,0	9,0	14,00	0160	●	●				
M18	2,50	125	32	25		14,0	11,0	15,50	0180	●	●				
M20	2,50	140	32	25		16,0	12,0	17,50	0200	●	●				
M22	2,50	140	32	25		18,0	14,5	19,50	0220	●	●				
M24	3,00	160	38	30		18,0	14,5	21,00	0240	●	●				
M27	3,00	160	38	30		20,0	16,0	24,00	0270	●	●				
M30	3,50	180	40	35		22,0	18,0	26,50	0300	●	●				
M33	3,50	180	45	35		25,0	20,0	29,50	0330	●	●				
M36	4,00	200	50	40		28,0	22,0	32,00	0360	●	●				
MF • d ₁	P	l ₁	l ₂	l ₂ R40	l ₃	• d ₂	a		INDEX	DIN-374					
Tolerance										ISO2 (6H)	ISO2 (6H)				
M12x1,5	1,50	100	20	5		9,0	7,0	10,50	0125	●	●				
M14x1,5	1,50	100	20	7		11,0	9,0	12,50	0145	●	●				
M16x1,5	1,50	100	20	8		12,0	9,0	14,50	0165	●	●				

Example of order

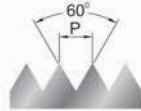
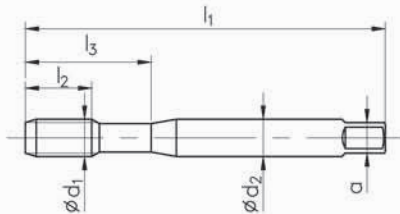
D2-511X01-0083
800X M8x1 6H DIN-374 C R40 HSSE TN

● Available from stock

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13


 HSSE HSSE
 PM PM

DIN-371


Zastosowanie / Application / Einsatzgebiete										INOX	INOX	INOX	INOX	FAN	FAN	FAN	
Materiał obrabiany / Material / Werkstoff										P1.3	P1.3, M2.2	P1.2-1.4, M2.1-M2.2, N4.5, N4.7-N4.8		P1.1-1.4, M2.1-2.3, K3.2-3.3, N4.2		P1.3-P1.5, M2.1, M2.3, K3.2-K3.3, N4.2-N4.3	
Rodzaj materiału / Quality of material / Qualität										HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM	
Typ otworu / Hole type / Lochform																	
Wykonanie / Execution / Ausführung										B	B	B	B	B	B	B	
Rodzaj powłoki / Coating / Beschichtung											OX	TiN	HL		TiCN	TiCN	
Nakrój / Chamfer / Anschnitt										B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	
Tolerancja / Tolerance / Toleranz										ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	
M	P	l ₁	l ₂	l ₃	Ød ₂	a		INDEX									
M 1,4	0,3	40	7		2,5	2,1	1,1	0014									
M 1,6	0,35	40	8		2,5	2,1	1,25	0016									
M 1,7	0,35	40	8		2,5	2,1	1,3	0017									
M 1,8	0,35	40	8		2,5	2,1	1,45	0018									
M 2	0,4	45	8	12	2,8	2,1	1,6	0020	●	○	●	○					
M 2,5	0,45	50	9	14	2,8	2,1	2,05	0025	●	○	●	○					
M 2,6	0,45	50	9	14	2,8	2,1	2,1	0026	○	○	○	○					
M 3	0,5	56	10	18	3,5	2,7	2,5	0030	●	●	●	●	●	●	●	●	
M 3,5	0,6	56	12	20	4	3	2,9	0035	●	○	○	○	○	○	○	○	
M 4	0,7	63	12	21	4,5	3,4	3,3	0040	●	●	●	●	●	●	●	●	
M 4,5	0,75	70	14	25	6	4,9	3,8	0045	●	○	○	○	○	○	○	○	
M 5	0,8	70	14	25	6	4,9	4,2	0050	●	●	●	●	●	●	●	●	
M 6	1	80	18	30	6	4,9	5	0060	●	●	●	●	●	●	●	●	
M 7	1	80	18	30	7	5,5	6	0070	●	○	○	○	○	○	○	○	
M 8	1,25	90	20	35	8	6,2	6,8	0080	●	●	●	●	●	●	●	●	
M 9	1,25	90	20	35	9	7	7,8	0090	○	○	○	○	○	○	○	○	
M 10	1,5	100	20	39	10	8	8,5	0100	●	●	●	●	●	●	●	●	

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C2-116801-0080
 DIN-371 B M8 ISO2 HSSE INOX OX

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

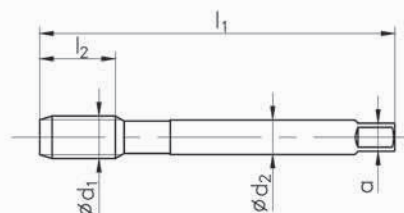
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13


 HSSE HSSE
 PM PM

DIN-376

Zastosowanie / Application / Einsatzgebiete

INOX INOX INOX INOX FAN FAN FAN

Materiał obrabiany / Material / Werkstoff

P1.3 P1.3, M2.2 P1.2-1.4, M2.1-M2.2, N4.5, N4.7-N4.8 P1.1-1.4, M2.1-2.3, K3.2-3.3, N4.2 P1.3-P1.5, M2.1, M2.3, K3.2-K3.3, N4.2-N4.3

Rodzaj materiału / Quality of material / Qualität

HSSE HSSE HSSE HSSE PM/HSSE PM/HSSE PM/HSSE

Typ otworu / Hole type / Lochform

Wykonanie / Execution / Ausführung

B B B B B B B

Rodzaj powłoki / Coating / Beschichtung

OX TiN HL TiCN TiCN

Nakrój / Chamfer / Anschnitt

B / 4-5P B / 4-5P B / 4-5P B / 4-5P B / 4-5P B / 4-5P B / 4-5P

Tolerancja / Tolerance / Toleranz

ISO2 (6H) ISO2 (6H) ISO2 (6H) ISO2 (6H) ISO2 (6H) ISO2 (6H) ISO3 (6G)

M Ød ₁	P	l ₁	l ₂	Ød ₂	a		INDEX	D2-111801	D2-116801	D2-113801	D2-118801	D4-111001	D4-115001	D4-115003
M 3	0,5	56	11	2,2	1,8	2,5	0030	○	○	○	○			
M 4	0,7	63	13	2,8	2,1	3,3	0040	○	○	○	○	○	○	
M 5	0,8	70	16	3,5	2,7	4,2	0050	○	○	○	○	○	○	
M 6	1	80	19	4,5	3,4	5	0060	○	○	○	○	○	○	
M 8	1,25	90	22	6	4,9	6,8	0080	●	●	●	●	●	●	
M 10	1,5	100	24	7	5,5	8,5	0100	●	●	●	●	●	●	
M 12	1,75	110	29	9	7	10,2	0120	●	●	●	●	●	●	●
M 14	2	110	30	11	9	12	0140	●	●	●	●	●	●	○
M 16	2	110	32	12	9	14	0160	●	●	●	●	●	●	●
M 18	2,5	125	34	14	11	15,5	0180	●	●	●	●	●	●	○
M 20	2,5	140	34	16	12	17,5	0200	●	●	●	●	●	●	●
M 22	2,5	140	34	18	14,5	19,5	0220	●	●	●	●	●	●	○
M 24	3	160	38	18	14,5	21	0240	●	●	●	●	●	●	●
M 27	3	160	38	20	16	24	0270	●	○	○	○	●	●	
M 30	3,5	180	45	22	18	26,5	0300	●	○	○	○	●	●	
M 33	3,5	180	50	25	20	29,5	0330	●	○	○	○	●	●	
M 36	4	200	56	28	22	32	0360	●	○	○	○	●	●	
M 39	4	200	60	32	24	35	0390	○						
M 42	4,5	200	60	32	24	37,5	0420	○						
M 45	4,5	220	65	36	29	40,5	0450	○						
M 48	5	250	70	36	29	43	0480	○						
M 52	5	250	70	40	32	47	0520	○						

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-116801-0120
 DIN-376 B M12 ISO2 HSSE INOX OX

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

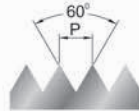
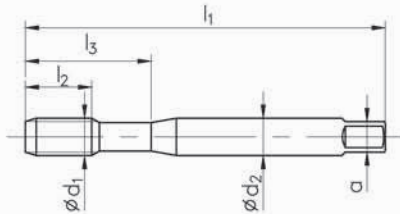
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13


 HSSE HSSE
 PM PM

DIN-371


Zastosowanie / Application / Einsatzgebiete	INOX	INOX	INOX	INOX	FAN	FAN	FAN
Materiał obrabiany / Material / Werkstoff	M2.2	M2.2	M2.1-M2.2	M2.1-M2.2	K3.2-K3.3	P1.1-P1.5, K3.2-K3.3, N4.2-4.3	
Rodzaj materiału / Quality of material / Qualität	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM
Typ otworu / Hole type / Lochform							
	<2,5d	<2,5d	<2,5d	<2,5d	<1,5d	<1,5d	<2,5d
Wykonanie / Execution / Ausführung	R40	R40	R40	R40	R15	R15	R40
Rodzaj powłoki / Coating / Beschichtung		OX	TiN	HL		TiCN	
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

M	P	l ₁	l ₂ R15	l ₂	l ₃	Ød ₂	a		INDEX	C2-511801	C2-516801	C2-513801	C2-518801	C4-501001	C4-505001	C4-561001
M 2	0,4	45		8	12	2,8	2,1	1,6	0020	●	○	●	○			
M 2,5	0,45	50		9	14	2,8	2,1	2,05	0025	●	○	●	○			
M 2,6	0,45	50		9	14	2,8	2,1	2,1	0026	○	○	○	○			
M 3	0,5	56	11	5	18	3,5	2,7	2,5	0030	●	●	●	●	●	●	●
M 3,5	0,6	56	12	6	20	4	3	2,9	0035	●	○	○	○			○
M 4	0,7	63	13	7	21	4,5	3,4	3,3	0040	●	●	●	●	●	●	●
M 4,5	0,75	70	14	7,5	25	6	4,9	3,8	0045	●	○	○	○			○
M 5	0,8	70	15	8	25	6	4,9	4,2	0050	●	●	●	●	●	●	●
M 6	1	80	17	10	30	6	4,9	5	0060	●	●	●	●	●	●	●
M 7	1	80	17	10	30	7	5,5	6	0070	●	○	○	○			○
M 8	1,25	90	20	13	35	8	6,2	6,8	0080	●	●	●	●	●	●	●
M 9	1,25	90	20	13	35	9	7	7,8	0090	●	○	○	○			○
M 10	1,5	100	20	15	39	10	8	8,5	0100	●	●	●	●	●	●	●

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C2-513801-0080
 DIN-371 C M8 ISO2 R40 HSSE INOX TiN

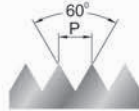
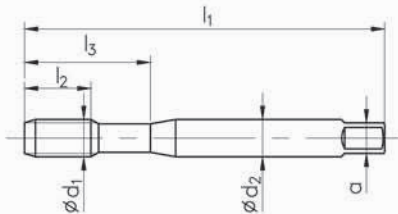
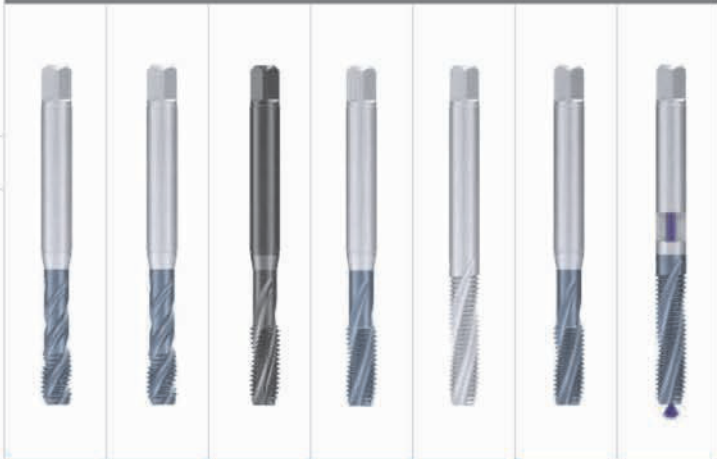
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

 ISO Metric coarse thread DIN-13
 Metrisches ISO-Regelgewinde DIN-13

 HSSE
 PM

DIN-371


Zastosowanie / Application / Einsatzgebiete	FAN	FAN	Ti	Ti	Ni	1400	1400
Materiał obrabiany / Material / Werkstoff	P1.4-P1.5, M2.1-M2.3, K3.2-3.3 N4.2		S5.1	P1.6, M2.3 S5.2-S5.3	S5.4	P1.5-P1.6, K3.1-K3.3, N4.6, N4.9	
Rodzaj materiału / Quality of material / Qualität	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM
Typ otworu / Hole type / Lochform							
	<2,5d	<2,5d	<1,5d	<1,5d	<1,5d	<1,5d	<1,5d
Wykonanie / Execution / Ausführung	R40	R40	R15	R15	R15	R15	R15 IK
Rodzaj powłoki / Coating / Beschichtung	TiCN	TiCN	OX	TiCN		TiCN	TiCN
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO3 (6G)	6HX	6HX	6HX	6HX	6HX

M	P	l ₁	l ₂ R15	l ₂	l ₃	Ød ₂	a		INDEX	C4-565001	C4-565003	C4-506B01	C4-505B01	C4-501C01	C4-505901	C4-505951
M 2	0,4	45		8	12	2,8	2,1	1,6	0020							
M 2,5	0,45	50		9	14	2,8	2,1	2,05	0025							
M 2,6	0,45	50		9	14	2,8	2,1	2,1	0026							
M 3	0,5	56	11	5	18	3,5	2,7	2,5	0030	●	●				●	
M 3,5	0,6	56	12	6	20	4	3	2,9	0035	○						
M 4	0,7	63	13	7	21	4,5	3,4	3,3	0040	●	●				●	
M 4,5	0,75	70	14	7,5	25	6	4,9	3,8	0045	○						
M 5	0,8	70	15	8	25	6	4,9	4,2*	0050	●	●	○	○	○	●	●
M 6	1	80	17	10	30	6	4,9	5*	0060	●	●	○	○	○	●	●
M 7	1	80	17	10	30	7	5,5	6	0070	○						
M 8	1,25	90	20	13	35	8	6,2	6,8*	0080	●	●	○	○	○	●	●
M 9	1,25	90	20	13	35	9	7	7,8	0090	○						
M 10	1,5	100	20	15	39	10	8	8,5*	0100	●	●	○	○	○	●	●



*** Dla gwintowników Ti, Ni zaleca się zwiększenie średnicy otworu gwintowanego o 0,1mm**
 For Ti, Ni taps is recommended to increase the diameter of the threaded hole by 0.1 mm
 Für Gewindebohrer Ti, Ni ist empfohlen, den Kernlochdurchmesser um 0,1 mm zu erhöhen

Przykład zamawiania / Example of order / Beispiel einer Bestellung:
 C4-565001-0050
 DIN-371 C M5 ISO2 R40 HSSE-PM FAN TiCN

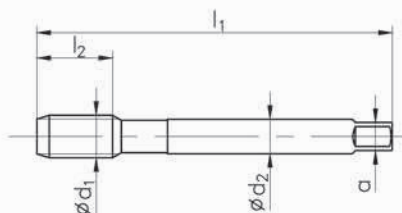
● Dostępne z magazynu, cena w cenniku
 Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste
 ○ Do szybkiej dostawy, cena na zapytanie
 For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13
Metrisches ISO-Regelgewinde DIN-13



HSSE HSSE
PM PM



DIN-376



Z lamaczem wóbrów / With the chip breaker / Mit Spanbrecher
~1,5 X l₁

Zastosowanie / Application / Einsatzgebiete	INOX	INOX	INOX	INOX	FAN	FAN	FAN
Materiał obrabiany / Material / Werkstoff	M2.2	M2.2	M2.1-M2.2	M2.1-M2.2	P1.4-P1.5 K3.2-K3.3	P1.4-P1.5,K3.2 -K3.3,N4.2-N4.3	P1.3-P1.4, K3.2-K3.3
Rodzaj materiału / Quality of material / Qualität	HSSE	HSSE	HSSE	HSSE	PM/HSSE	PM/HSSE	PM/HSSE
Typ otworu / Hole type / Lochform							
	<2,5d	<2,5d	<2,5d	<2,5d	<1,5d	<1,5d	<2,5d
Wykonanie / Execution / Ausführung	R40	R40	R40	R40	R15	R15	R15 IK LF
Rodzaj powłoki / Coating / Beschichtung		OX	TiN	HL		TiCN	HL
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

M	P	l ₁	l ₁ LF	l ₂ R15	l ₂	Ød ₂	a		INDEX	D2-511801	D2-516801	D2-513801	D2-518801	D4-501001	D4-505001	D4-5080A1
M 3	0,5	56		11	5	2,2	1,8	2,5	0030	○	○	○	○			
M 4	0,7	63		13	7	2,8	2,1	3,3	0040	○	○	○	○			
M 5	0,8	70		16	8	3,5	2,7	4,2	0050	○	○	○	○			
M 6	1	80		19	10	4,5	3,4	5	0060	○	○	○	○			
M 8	1,25	90		22	13	6	4,9	6,8	0080	●	○	○	○			
M 10	1,5	100		24	15	7	5,5	8,5	0100	●	○	○	○			
M 12	1,75	110	165	29	18	9	7	10,2	0120	●	●	●	●	●	●	○
M 14	2	110	165	30	20	11	9	12	0140	●	○	○	○	○	○	○
M 16	2	110	165	32	20	12	9	14	0160	●	●	●	●	●	●	○
M 18	2,5	125	190	34	25	14	11	15,5	0180	●	○	○	○	○	○	○
M 20	2,5	140	210	34	25	16	12	17,5	0200	●	●	●	●	●	●	○
M 22	2,5	140	210	34	25	18	14,5	19,5	0220	●	○	○	○	○	○	○
M 24	3	160	240	38	30	18	14,5	21	0240	●	●	●	●	●	●	○
M 27	3	160		38	30	20	16	24	0270	●	○	○	○	○	○	
M 30	3,5	180		45	35	22	18	26,5	0300	●	●	●	○	○	○	
M 33	3,5	180		50	35	25	20	29,5	0330	●	○	○	○	○	○	
M 36	4	200		56	40	28	22	32	0360	●	●	●	○	○	○	
M 39	4	200		55	40	32	24	35	0390	○						
M 42	4,5	200		60	45	32	24	37,5	0420	○						

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

D2-511801-0120
DIN-376 C M12 ISO2 R40 HSSE INOX

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

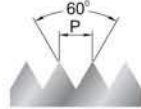
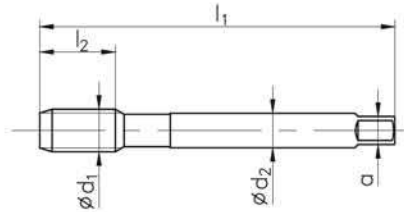
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13


 HSSE
 HSSE
 PM

DIN-376


Zastosowanie / Application / Einsatzgebiete	FAN	FAN	FAN	Ti	Ti	Ni	1400
Materiał obrabiany / Material / Werkstoff	P1.4-P1.5, M2.1-M2.3, K3.2-3.3 N4.2	P1.4-P1.5, M2.1-M2.3, K3.2-3.3 N4.2	P1.4-P1.5, M2.1-M2.3, K3.2-3.3 N4.2	S5.1	P1.6, M2.3 S5.2-S5.3	S5.4	P1.5-P1.6, K3.1-K3.3, N4.6, N4.9
Rodzaj materiału / Quality of material / Qualität	PM/HSSE	PM/HSSE	PM/HSSE	HSSE-PM	HSSE-PM	HSSE-PM	PM/HSSE
Typ otworu / Hole type / Lochform							
Wykonanie / Execution / Ausführung	R40	R40	R40	R15	R15	R15	R15
Rodzaj powłoki / Coating / Beschichtung		TiCN	TiCN	OX	TiCN		TiCN
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	6HX	6HX	6HX	6HX

M	Ød ₁	P	l ₁	l ₂ R15	l ₂	Ød ₂	a		INDEX	D4-561001	D4-565001	D4-565003	D4-506B01	D4-505B01	D4-501C01	D4-505901
M 3	0,5	56	11	5	2,2	1,8	2,5	0030								
M 4	0,7	63	13	7	2,8	2,1	3,3	0040	○	○						
M 5	0,8	70	16	8	3,5	2,7	4,2*	0050	○	○						
M 6	1	80	19	10	4,5	3,4	5*	0060	○	○						
M 8	1,25	90	22	13	6	4,9	6,8*	0080	○	○		○	○	○	○	○
M 10	1,5	100	24	15	7	5,5	8,5*	0100	○	○		○	○	○	○	○
M 12	1,75	110	29	18	9	7	10,2*	0120	●	●	●	○	○	○	○	●
M 14	2	110	30	20	11	9	12*	0140	●	●	○	○	○	○	○	○
M 16	2	110	32	20	12	9	14*	0160	●	●	●	○	○	○	○	●
M 18	2,5	125	34	25	14	11	15,5	0180	●	●	○					○
M 20	2,5	140	34	25	16	12	17,5	0200	●	●	●					○
M 22	2,5	140	34	25	18	14,5	19,5	0220	●	●	○					○
M 24	3	160	38	30	18	14,5	21	0240	●	●	●					○
M 27	3	160	38	30	20	16	24	0270	●	●						○
M 30	3,5	180	45	35	22	18	26,5	0300	●	●						○
M 33	3,5	180	50	35	25	20	29,5	0330	●	●						○
M 36	4	200	56	40	28	22	32	0360	●	●						○
M 39	4	200	55	40	32	24	35	0390								
M 42	4,5	200	60	45	32	24	37,5	0420								

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D4-565003-0160
 DIN-376 C M16 6G R40 HSSE-PM FAN TiCN

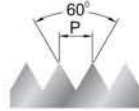
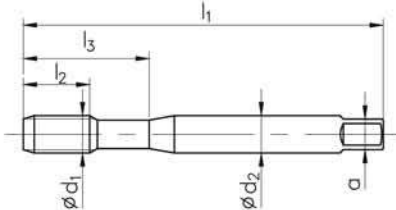
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

 ISO Metric coarse thread DIN-13
 Metrisches ISO-Regelgewinde DIN-13

 HSSE
 PM

DIN-371 (-DIN-2174)

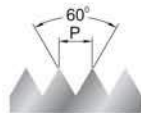

Zastosowanie / Application / Einsatzgebiete	WGA	WGN	WGN	WGN	WGN	WGN	WGN
Materiał obrabiany / Material / Werkstoff	P1.1-P1.3 M2.1-M2.2 N4.1,N4.4	P1.1-P1.3 M2.2	P1.1-P1.3 M2.2	P1.1-P1.3 M2.2 N4.2, N4.5	P1.1-P1.3 M2.2 N4.2, N4.5	P1.1-P1.3 M2.2 N4.2, N4.5	P1.1-P1.3 M2.2 N4.2, N4.5
Rodzaj materiału / Quality of material / Qualität	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM
Typ otworu / Hole type / Lochform							
Wykonanie / Execution / Ausführung	SR			SR	SR	SR	SR
Rodzaj powłoki / Coating / Beschichtung	TiN	TiN	TiN	TiN	TiN	TiCN	TiCN
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	E / 1,5-2P
Tolerancja / Tolerance / Toleranz	6HX	6HX	6HX	6HX	6GX	6HX	6HX

M	P	l ₁	l ₂	l ₃	Ød ₂	a		INDEX	C4-923205	C4-903005	C4-903905	C4-923005	C4-923006	C4-925005	C4-945005
M 2	0,4	45	8	-	2,8	2,1	1,83	0020				●			
M 2,2	0,45	45	9	-	2,8	2,1	2	0022				○			
M 2,5	0,45	50	9	-	2,8	2,1	2,3	0025				●			
M 3	0,5	56	10	18	3,5	2,7	2,8	0030		●		●	●	●	○
M 3,5	0,6	56	11	20	4	3	3,25	0035		○		○			
M 4	0,7	63	7	21	4,5	3,4	3,7	0040	●	●	○	●	●	●	●
M 5	0,8	70	8	25	6	4,9	4,65	0050	●	●	○	●	●	●	●
M 6	1	80	10	30	6	4,9	5,6	0060	●	●	○	●	●	●	●
M 7	1	80	10	30	7	5,5	6,6	0070	○	○	○	○			
M 8	1,25	90	13	35	8	6,2	7,45	0080	●	●	○	●	●	●	●
M 9	1,25	90	13	35	9	7	8,45	0090	○	○	○	○			
M 10	1,5	100	15	39	10	8	9,35	0100	●	●	○	●	●	●	●

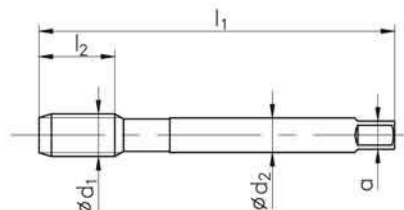
Przykład zamawiania / Example of order / Beispiel einer Bestellung:
 C4-923005-0040
 DIN-371 C M4 6HX HSSE-PM WGN TiN

● Dostępne z magazynu, cena w cenniku
 Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste
 ○ Do szybkiej dostawy, cena na zapytanie
 For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

 ISO Metric coarse thread DIN-13
 Metrisches ISO-Regelgewinde DIN-13


HSSE

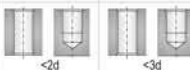

DIN-376 (~DIN-2174)

Zastosowanie / Application / Einsatzgebiete
WGN **WGN**
Materiał obrabiany / Material / Werkstoff

 P1.1-P1.3
 M2.2 P1.1-P1.3
 M2.2
 N4.2,N4.5

Rodzaj materiału / Quality of material / Qualität

HSSE HSSE

Typ otworu / Hole type / Lochform

Wykonanie / Execution / Ausführung

SR

Rodzaj powłoki / Coating / Beschichtung
TiN **TiN**
Nakrój / Chamfer / Anschnitt

C / 2-3P C / 2-3P

Tolerancja / Tolerance / Toleranz

6HX 6HX

M Ød ₁	P	l ₁	l ₂	Ød ₂	a		INDEX	D2-903105	D2-923105
M 12	1,75	110	18	9	7	11,25	0120	●	●
M 14	2	110	26	11	9	13	0140	●	●
M 16	2	110	27	12	9	15	0160	●	●
M 18	2,5	125	32	14	11	16,8	0180	●	●
M 20	2,5	140	32	16	12	18,8	0200	●	●

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

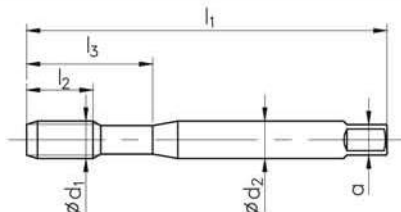
 D2-903105-0120
 DIN-376 C M12 6HX HSSE WGN TiN

 ● **Dostępne z magazynu, cena w cenniku**
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

 ○ **Do szybkiej dostawy, cena na zapytanie**
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

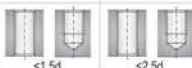
 ISO Metric coarse thread DIN-13
 Metrisches ISO-Regelgewinde DIN-13

VHM

~DIN-371

Zastosowanie / Application / Einsatzgebiete
HRC60
GAL
Materiał obrabiany / Material / Werkstoff

H6.1-H6.2

 K3.1, N4.3
 N4.6, N4.10
 N4.13

Rodzaj materiału / Quality of material / Qualität
VHM
VHM
Typ otworu / Hole type / Lochform

Wykonanie / Execution / Ausführung

IK*

R15 IK*

Rodzaj powłoki / Coating / Beschichtung
TiCN
TiCN
Nakrój / Chamfer / Anschnitt

D / 4-5P

C / 2-3P

Tolerancja / Tolerance / Toleranz

6HX

6HX

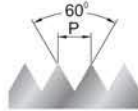
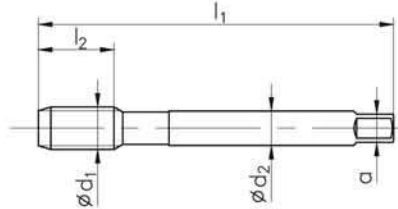
M Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a	INDEX		C9-135F01*	C9-505601*	
M 3*	0,5	56	5	18	3,5	2,7	0030*	2,5	●		2,8
M 4*	0,7	63	7	21	4,5	3,4	0040*	3,3	●		3,7
M 5*	0,8	70	8	25	6	4,9	0050*	4,2	●		4,65
M Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a	INDEX		C9-135F51	C9-505651	
M 6	1	80	10	30	6	4,9	0060	5	●		5,6
M 8	1,25	90	13	35	8	6,2	0080	6,8	●		7,45
M 10	1,5	100	15	39	10	8	0100	8,5	●		9,35

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C9-135F01-0050
 DIN-371 D M5 6HX VHM HRC60 TiCN

- Dostępne z magazynu, cena w cenniku
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste.
- Do szybkiej dostawy, cena na zapytanie
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

 ISO Metric coarse thread DIN-13
 Metrisches ISO-Regelgewinde DIN-13

VHM

~DIN-376

Zastosowanie / Application / Einsatzgebiete
HRC60
GAL
Materiał obrabiany / Material / Werkstoff

H6.1-H6.2

 K3.1, N4.3
 N4.6, N4.10
 N4.13

Rodzaj materiału / Quality of material / Qualität
VHM
VHM
Typ otworu / Hole type / Lochform

Wykonanie / Execution / Ausführung
IK
R15 IK
Rodzaj powłoki / Coating / Beschichtung
TiCN
TiCN
Nakrój / Chamfer / Anschnitt
D / 4-5P
C / 2-3P
Tolerancja / Tolerance / Toleranz
6HX
6HX

M	P	l_1	l_2	$\varnothing d_2$	a	INDEX		D9-135F51	D9-505651	
M 12	1,75	110	18	9	7	0120	10,2	●		11,25
M 14	2	110	20	11	9	0140	12	○		13
M 16	2	110	20	12	9	0160	14	●		15

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D9-928605-0120
 DIN-376 C M12 6HX VHM WGN IKR HL

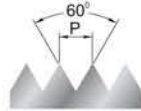
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

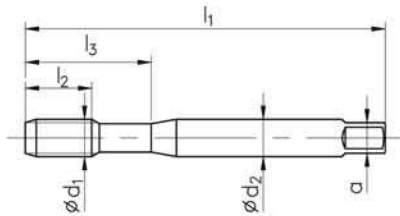
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13


HSSE


DIN-371


Zastosowanie / Application / Einsatzgebiete	800	800	800	INOX	INOX	INOX	INOX
Materiał obrabiany / Material / Werkstoff	P1.3	P1.3, M2.2	P1.1-P1.4, M2.1 M2.2, N4.5, N4.7 N4.8	M2.2	P1.3, M2.2	P1.2-1.4, M2.1-M2.2, N4.5, N4.7-N4.8	P1.2-1.4, M2.1-M2.2, N4.5, N4.7-N4.8
Rodzaj materiału / Quality of material / Qualität	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
Typ otworu / Hole type / Lochform							
Wykonanie / Execution / Ausführung	B	B	B	B	B	B	B
Rodzaj powłoki / Coating / Beschichtung		OX	TiN		OX	TiN	HL
Nakrój / Chamfer / Anschnitt	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		INDEX	C2-111101	C2-116101	C2-113101	C2-111801	C2-116801	C2-113801	C2-118801
M 2,5 x 0,35	50	50	7	12	2,8	2,1	2,15	0009							
M 2,6 x 0,35	50	50	7	12	2,8	2,1	2,25	0008							
M 3 x 0,35	56	56	8	18	3,5	2,7	2,65	0031							
M 3,5 x 0,35	56	56	9	20	4	3	3,15	0036							
M 4 x 0,5	0,5	63	10	21	4,5	3,4	3,5	0041	●	○	○	●	○	○	○
M 5 x 0,5	0,5	70	12	25	6	4,9	4,5	0051	●	○	●	●	○	○	○
M 6 x 0,75	0,75	80	14	30	6	4,9	5,2	0062	●	●	●	●	○	○	○
M 8 x 0,75	0,75	80	18	30	8	6,2	7,2	0082	●	○	○	●	○	○	○
M 8 x 1	1	90	20	35	8	6,2	7	0083	●	●	●	●	●	●	●
M 10 x 0,75	0,75	90	20	35	10	8	9,2	0102	●	○	●	●	○	○	○
M 10 x 1	1	90	20	35	10	8	9	0103	●	●	●	●	●	●	●
M 10 x 1,25	1,25	100	20	39	10	8	8,8	0104	●	●	●	●	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C2-113101-0103
 DIN-371 B M10x1 ISO2 HSSE 800 TiN

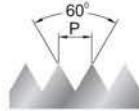
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

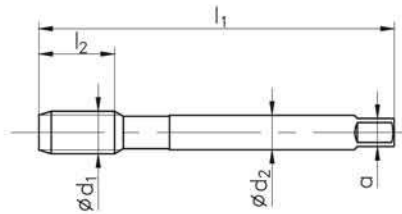
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13


HSSE


DIN-374

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX	INOX	INOX
P1.3 N4.5, N4.8	P1.3, M2.2	P1.2-P1.4, M2.1 M2.2, N4.5, N4.7-4.8	P1.3	P1.3, M2.2	P1.2-1.4, M2.1 M2.2, N4.5, N4.7-N4.8	P1.2-1.4, M2.1 M2.2, N4.5, N4.7-N4.8
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
B	B	B	B	B	B	B
	OX	TiN		OX	TiN	HL
B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P
ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød ₁	P	l ₁	l ₂	Ød ₂	a		INDEX	D2-111101	D2-116101	D2-113101	D2-111801	D2-116801	D2-113801	D2-118801
M 8 x 1	1	90	20	6	4,9	7,0	0083	●	●	●	●	●	●	○
M 9 x 1	1	90	20	7	5,5	8,0	0093	●	○	○	○	○	○	○
M 10 x 0,75	0,75	90	18	7	5,5	9,2	0102	●	○	○	●	○	○	○
M 10 x 1	1	90	20	7	5,5	9,0	0103	●	●	●	●	●	●	○
M 10 x 1,25	1,25	100	20	7	5,5	8,8	0104	●	○	○	●	○	○	○
M 11 x 1	1	90	20	8	6,2	10,0	0113	●	○	○	●	○	○	○
M 12 x 1	1	100	20	9	7	11,0	0123	●	●	●	●	●	●	○
M 12 x 1,25	1,25	100	20	9	7	10,8	0124	●	●	●	●	●	●	○
M 12 x 1,5	1,5	100	20	9	7	10,5	0125	●	●	●	●	●	●	○
M 14 x 1	1	100	20	11	9	13,0	0143	●	○	○	●	●	●	○
M 14 x 1,25	1,25	100	20	11	9	12,8	0144	●	○	○	●	○	○	○
M 14 x 1,5	1,5	100	20	11	9	12,5	0145	●	●	●	●	●	●	○
M 15 x 1	1	100	20	12	9	14,0	0153	○	○	○	○	○	○	○
M 16 x 1	1	100	20	12	9	15,0	0163	●	○	○	●	○	○	○
M 16 x 1,5	1,5	100	20	12	9	14,5	0165	●	●	●	●	●	●	○
M 18 x 1	1	110	24	14	11	17,0	0183	●	○	○	●	○	○	○
M 18 x 1,5	1,5	110	24	14	11	16,5	0185	●	●	●	●	●	●	○
M 18 x 2	2	125	32	14	11	16	0186	●	○	○	●	○	○	○
M 20 x 1	1	125	24	16	12	19	0203	●	○	○	●	○	○	○
M 20 x 1,5	1,5	125	24	16	12	18,5	0205	●	○	○	●	○	○	○
M 20 x 2	2	140	32	16	12	18	0206	●	○	○	●	○	○	○
M 22 x 1	1	125	24	18	14,5	21	0223	●	○	○	●	○	○	○
M 22 x 1,5	1,5	125	24	18	14,5	20,5	0225	●	○	○	●	○	○	○
M 22 x 2	2	140	32	18	14,5	20	0226	●	○	○	●	○	○	○
M 24 x 1	1	140	27	18	14,5	23	0241	●	○	○	●	○	○	○
M 24 x 1,5	1,5	140	27	18	14,5	22,5	0245	●	○	○	●	○	○	○
M 24 x 2	2	140	27	18	14,5	22	0246	●	○	○	●	○	○	○
M 25 x 1,5	1,5	140	27	18	14,5	23,5	0255	●	○	○	●	○	○	○
M 26 x 1,5	1,5	140	27	18	14,5	24,5	0265	●	○	○	●	○	○	○
M 27 x 1,5	1,5	140	27	20	16	25,5	0275	●	○	○	●	○	○	○
M 27 x 2	2	140	27	20	16	25	0276	●	○	○	●	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-111801-0125
 DIN-374 B M12x1,5 ISO2 HSSE INOX

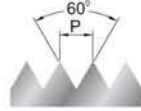
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

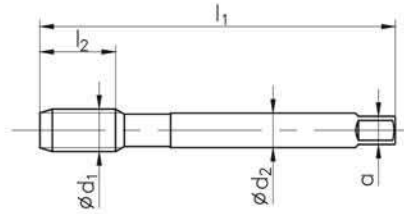
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13


HSSE


DIN-374

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX	INOX	INOX
P1.3 N4.5, N4.8	P1.3, M2.2	P1.2-P1.4, M2.1 M2.2, N4.5, N4.7-4.8	P1.3	P1.3, M2.2	P1.2-1.4, M2.1 M2.2, N4.5, N4.7-N4.8	P1.2-1.4, M2.1 M2.2, N4.5, N4.7-N4.8
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
B	B	B	B	B	B	B
	OX	TiN		OX	TiN	HL
B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P
ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød ₁	P	l ₁	l ₂	Ød ₂	a		INDEX	D2-111101	D2-116101	D2-113101	D2-111801	D2-116801	D2-113801	D2-118801
M 28 x 1,5	1,5	140	27	20	16	26,5	0285	●	○	○	●	○	○	○
M 28 x 2	2	140	27	20	16	26	0286	●	○	○	●	○	○	○
M 30 x 1,5	1,5	150	27	22	18	28,5	0305	●	○	○	●	○	○	○
M 30 x 2	2	150	27	22	18	28	0306	●	○	○	●	○	○	○
M 32 x 1,5	1,5	150	27	22	18	30,5	0325	●	○	○	●	○	○	○
M 32 x 2	2	150	27	22	18	30	0326	●	○	○	●	○	○	○
M 33 x 1,5	1,5	160	30	25	20	31,5	0335	●	○	○	●	○	○	○
M 33 x 2	2	160	30	25	20	31	0336	●	○	○	●	○	○	○
M 34 x 1,5	1,5	170	30	28	22	32,5	0345	●	○	○	●	○	○	○
M 35 x 1,5	1,5	170	30	28	22	33,5	0355	●	○	○	●	○	○	○
M 36 x 1,5	1,5	170	30	28	22	34,5	0365	●	○	○	●	○	○	○
M 36 x 2	2	170	30	28	22	34	0366	●	○	○	●	○	○	○
M 36 x 3	3	200	50	28	22	33	0367	●	○	○	●	○	○	○
M 38 x 1,5	1,5	170	30	28	22	36,5	0385	○			○			
M 39 x 1,5	1,5	170	30	32	24	37,5	0395	○			○			
M 39 x 2	2	170	30	32	24	37	0396	○			○			
M 39 x 3	3	200	50	32	24	36	0397	○			○			
M 40 x 1,5	1,5	170	30	32	24	38,5	0405	○			○			
M 40 x 2	2	170	30	32	24	38	0406	○			○			
M 42 x 1,5	1,5	170	30	32	24	40,5	0425	○			○			
M 42 x 2	2	170	30	32	24	40	0426	○			○			
M 42 x 3	3	200	60	32	24	39	0427	○			○			
M 45 x 1,5	1,5	180	30	36	29	43,5	0455	○			○			
M 45 x 2	2	180	30	36	29	43	0456	○			○			
M 45 x 3	3	200	50	36	29	42	0457	○			○			
M 48 x 1,5	1,5	190	30	36	29	46,5	0485	○			○			
M 48 x 2	2	190	30	36	29	46	0486	○			○			
M 48 x 3	3	225	50	36	29	45	0487	○			○			
M 50 x 1,5	1,5	190	30	36	29	48,5	0505	○			○			
M 50 x 2	2	190	30	36	29	48	0506	○			○			
M 52 x 1,5	1,5	190	32	40	32	50,5	0525	○			○			
M 52 x 2	2	190	32	40	32	50	0526	○			○			
M 52 x 3	3	225	50	40	32	49	0527	○			○			

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-113101-0325
 DIN-374 C M30x1,5 6HX HSSE-PM 800 TiN

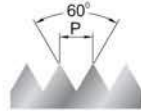
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

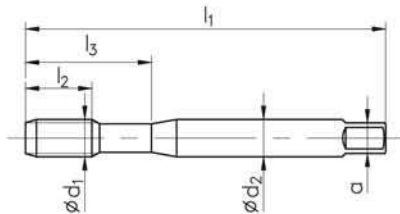
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13


HSSE


DIN-371

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX	INOX	INOX
P1.3	P1.3	P1.1-P1.4 N4.5, N4.7, N4.8	M2.2	M2.2	M2.1-M2.2	M2.1-M2.2
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
R40	R40	R40	R40	R40	R40	R40
	OX	TiN		OX	TiN	HL
C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød ₁	P	l ₁	l ₂	l ₃	Ød ₂	a		INDEX	C2-511101	C2-516101	C2-513101	C2-511801	C2-516801	C2-513801	C2-518801
M 2,5 x 0,35	0,35	50	5	12	2,8	2,1	2,15	0009							
M 2,6 x 0,35	0,35	50	5	12	2,8	2,1	2,25	0008							
M 3 x 0,35	0,35	56	5	18	3,5	2,7	2,65	0031							
M 3,5 x 0,35	0,35	56	5	20	4	3	3,15	0036							
M 4 x 0,5	0,5	63	7	21	4,5	3,4	3,5	0041	●	○	○	●	○	○	○
M 5 x 0,5	0,5	70	8	25	6	4,9	4,5	0051	●	○	○	●	○	○	○
M 6 x 0,75	0,75	80	10	30	6	4,9	5,2	0062	●	○	○	●	○	○	○
M 8 x 0,75	0,75	80	10	30	8	6,2	7,2	0082	●	○	○	●	○	○	○
M 8 x 1	1	90	13	35	8	6,2	7	0083	●	●	●	●	●	●	○
M 10 x 0,75	0,75	90	13	35	10	8	9,2	0102	●	○	○	●	○	○	○
M 10 x 1	1	90	13	35	10	8	9	0103	●	●	●	●	●	●	○
M 10 x 1,25	1,25	100	15	39	10	8	8,8	0104	●	○	○	●	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C2-511101-0083
 DIN-371 C M8x1 6H R40 HSSE 800

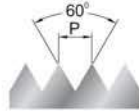
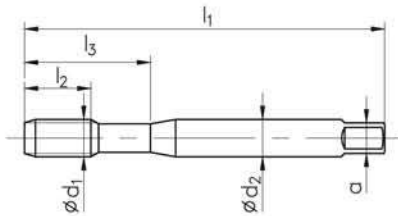
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13

 HSSE
 PM

DIN-371


										FAN	FAN	1400	GAL
Zastosowanie / Application / Einsatzgebiete													
Materiał obrabiany / Material / Werkstoff										P1.1-1.4, M2.1-2.3 K3.2-3.3, N4.2	P1.4-P1.5, M2.1 M2.3, K3.2-K3.3, N4.2	P1.5-P1.6, K3.1 N4.6, N4.9	N4.2-N4.3
Rodzaj materiału / Quality of material / Qualität										HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM
Typ otworu / Hole type / Lochform													
Wykonanie / Execution / Ausführung										R40	R40	R15	R15
Rodzaj powłoki / Coating / Beschichtung											TiCN	TiCN	TiCN
Nakrój / Chamfer / Anschnitt										C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz										ISO2 (6H)	ISO2 (6H)	6HX	6HX
MF Ød ₁	P	l ₁	l ₂ R15	l ₂	l ₃	Ød ₂	a		INDEX	C4-561001	C4-565001	C4-505901	C2-505601
M 2,5 x 0,35	0,35	50	7	5	12	2,8	2,1	2,15	0009				
M 2,6 x 0,35	0,35	50	7	5	12	2,8	2,1	2,25	0008				
M 3 x 0,35	0,35	56	8	5	18	3,5	2,7	2,65	0031				
M 3,5 x 0,35	0,35	56	9	5	20	4	3	3,15	0036				
M 4 x 0,5	0,5	63	10	7	21	4,5	3,4	3,5	0041	o	o		
M 5 x 0,5	0,5	70	12	8	25	6	4,9	4,5	0051	o	o		
M 6 x 0,75	0,75	80	14	10	30	6	4,9	5,2	0062	o	o		
M 8 x 0,75	0,75	80	18	10	30	8	6,2	7,2	0082	o	o		o
M 8 x 1	1	90	20	13	35	8	6,2	7	0083	•	•	o	o
M 10 x 0,75	0,75	90	20	13	35	10	8	9,2	0102	o	o		
M 10 x 1	1	90	20	13	35	10	8	9	0103	•	•	o	o
M 10 x 1,25	1,25	100	20	15	39	10	8	8,8	0104	•	•		

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C4-565001-0305
 DIN-371 C M30x1,5 ISO2 R40 HSSE-PM FAN TiCN

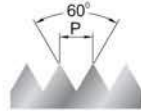
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

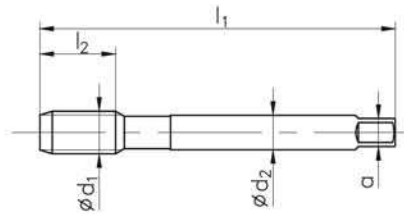
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13


HSSE


DIN-374


Zastosowanie / Application / Einsatzgebiete	800	800	800	INOX	INOX	INOX	INOX
Materiał obrabiany / Material / Werkstoff	P1.3	P1.3	P1.1-P1.4 N4.5, N4.7, N4.8		M2.2	M2.1-M2.2	M2.1-M2.2
Rodzaj materiału / Quality of material / Qualität	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
Typ otworu / Hole type / Lochform							
Wykonanie / Execution / Ausführung	R40	R40	R40	R40	R40	R40	R40
Rodzaj powłoki / Coating / Beschichtung		OX	TIN		OX	TIN	HL
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød ₁	P	l ₁	l ₂	Ød ₂	a		INDEX	D2-511101	D2-516101	D2-513101	D2-511801	D2-516801	D2-513801	D2-518801
M 8 x 1	1	90	10	6	4,9	7,0	0083	●	●	●	●	●	●	○
M 9 x 1	1	90	10	7	5,5	8,0	0093	○	○	○	○	○	○	○
M 10 x 0,75	0,75	90	10	7	5,5	9,2	0102	●	○	○	●	○	○	○
M 10 x 1	1	90	10	7	5,5	9,0	0103	●	●	●	●	●	●	○
M 10 x 1,25	1,25	100	15	7	5,5	8,8	0104	●	○	○	●	○	○	○
M 11 x 1	1	90	10	8	6,2	10,0	0113	●	○	○	●	○	○	○
M 12 x 1	1	100	10	9	7	11,0	0123	●	●	●	●	●	●	○
M 12 x 1,25	1,25	100	15	9	7	10,8	0124	●	●	●	●	●	●	○
M 12 x 1,5	1,5	100	15	9	7	10,5	0125	●	●	●	●	●	●	○
M 14 x 1	1	100	10	11	9	13,0	0143	●	○	○	●	●	●	○
M 14 x 1,25	1,25	100	15	11	9	12,8	0144	●	○	○	●	○	○	○
M 14 x 1,5	1,5	100	15	11	9	12,5	0145	●	●	●	●	●	●	○
M 15 x 1	1	100	10	12	9	14,0	0153	○	○	○	○	○	○	○
M 16 x 1	1	100	10	12	9	15,0	0163	●	○	○	●	○	○	○
M 16 x 1,5	1,5	100	15	12	9	14,5	0165	●	●	●	●	●	●	○
M 18 x 1	1	110	10	14	11	17,0	0183	●	○	○	●	○	○	○
M 18 x 1,5	1,5	110	17	14	11	16,5	0185	●	●	●	●	●	●	○
M 18 x 2	2	125	20	14	11	16	0186	●	○	○	●	○	○	○
M 20 x 1	1	125	10	16	12	19	0203	●	○	○	●	○	○	○
M 20 x 1,5	1,5	125	17	16	12	18,5	0205	●	●	●	●	●	●	○
M 20 x 2	2	140	17	16	12	18	0206	●	○	○	●	○	○	○
M 22 x 1	1	125	10	18	14,5	21	0223	●	○	○	●	○	○	○
M 22 x 1,5	1,5	125	17	18	14,5	20,5	0225	●	○	○	●	○	○	○
M 22 x 2	2	140	20	18	14,5	20	0226	●	○	○	●	○	○	○
M 24 x 1	1	140	10	18	14,5	23	0241	●	○	○	●	○	○	○
M 24 x 1,5	1,5	140	20	18	14,5	22,5	0245	●	○	○	●	○	○	○
M 24 x 2	2	140	20	18	14,5	22	0246	●	○	○	●	○	○	○
M 25 x 1,5	1,5	140	20	18	14,5	23,5	0255	●	○	○	●	○	○	○
M 26 x 1,5	1,5	140	20	18	14,5	24,5	0265	●	○	○	●	○	○	○
M 27 x 1,5	1,5	140	20	20	16	25,5	0275	●	○	○	●	○	○	○
M 27 x 2	2	140	20	20	16	25	0276	●	○	○	●	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-511101-0165
 DIN-374 C M16x1,5 ISO2 R40 HSSE 800

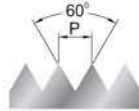
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

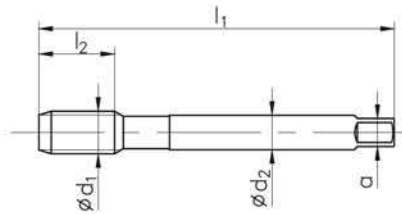
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13


HSSE


DIN-374


Zastosowanie / Application / Einsatzgebiete	800	800	800	INOX	INOX	INOX	INOX
Materiał obrabiany / Material / Werkstoff	P1.3	P1.3	P1.1-P1.4 N4.5, N4.7, N4.8		M2.2	M2.1-M2.2	M2.1-M2.2
Rodzaj materiału / Quality of material / Qualität	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
Typ otworu / Hole type / Lochform							
Wykonanie / Execution / Ausführung	R40	R40	R40	R40	R40	R40	R40
Rodzaj powłoki / Coating / Beschichtung		OX	TIN		OX	TIN	HL
Nakrój / Chamfer / Anschnitt	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød ₁	P	l ₁	l ₂	Ød ₂	a		INDEX	D2-511101	D2-516101	D2-513101	D2-511801	D2-516801	D2-513801	D2-518801
M 28 x 1,5	1,5	140	20	20	16	26,5	0285	●	○	○	○	○	○	○
M 28 x 2	2	140	20	20	16	26	0286	●	○	○	○	○	○	○
M 30 x 1,5	1,5	150	22	22	18	28,5	0305	●	○	○	○	○	○	○
M 30 x 2	2	150	22	22	18	28	0306	●	○	○	○	○	○	○
M 32 x 1,5	1,5	150	22	22	18	30,5	0325	●	○	○	○	○	○	○
M 32 x 2	2	150	24	22	18	30	0326	●	○	○	○	○	○	○
M 33 x 1,5	1,5	160	22	25	20	31,5	0335	●	○	○	○	○	○	○
M 33 x 2	2	160	24	25	20	31	0336	●	○	○	○	○	○	○
M 34 x 1,5	1,5	170	22	28	22	32,5	0345	●	○	○	○	○	○	○
M 35 x 1,5	1,5	170	22	28	22	33,5	0355	●	○	○	○	○	○	○
M 36 x 1,5	1,5	170	24	28	22	34,5	0365	●	○	○	○	○	○	○
M 36 x 2	2	170	24	28	22	34	0366	●	○	○	○	○	○	○
M 36 x 3	3	200	30	28	22	33	0367	●	○	○	○	○	○	○
M 38 x 1,5	1,5	170	24	28	22	36,5	0385	○			○			
M 39 x 1,5	1,5	170	25	32	24	37,5	0395	○			○			
M 39 x 2	2	170	25	32	24	37	0396	○			○			
M 39 x 3	3	200	30	32	24	36	0397	○			○			
M 40 x 1,5	1,5	170	25	32	24	38,5	0405	○			○			
M 40 x 2	2	170	25	32	24	38	0406	○			○			
M 42 x 1,5	1,5	170	25	32	24	40,5	0425	○			○			
M 42 x 2	2	170	25	32	24	40	0426	○			○			
M 42 x 3	3	200	30	32	24	39	0427	○			○			
M 45 x 1,5	1,5	180	27	36	29	43,5	0455	○						
M 45 x 2	2	180	27	36	29	43	0456	○						
M 45 x 3	3	200	30	36	29	42	0457	○						
M 48 x 1,5	1,5	190	27	36	29	46,5	0485	○						
M 48 x 2	2	190	27	36	29	46	0486	○						
M 48 x 3	3	225	33	36	29	45	0487	○						
M 50 x 1,5	1,5	190	27	36	29	48,5	0505	○						
M 50 x 2	2	190	33	36	29	48	0506	○						
M 52 x 1,5	1,5	190	27	40	32	50,5	0525	○						
M 52 x 2	2	190	33	40	32	50	0526	○						
M 52 x 3	3	225	33	40	32	49	0527	○						

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-511101-0305
 DIN-374 C M30x1,5 ISO2 R40 HSSE 800

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

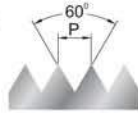
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

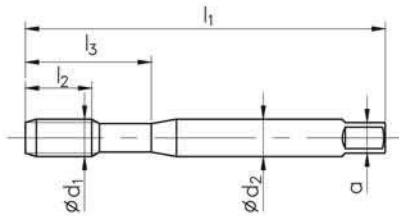
Gwint amerykański zunifikowany UNC, ANSI B-1.1

American unified coarse thread UNC, ANSI B-1.1

Amerikanisches Unified - Grobgewinde UNC, ANSI B-1.1



HSSE


DIN-371 (-DIN-2182)

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX
P1.2-P1.3	P1.3	P1.3	P1.3	P1.3
HSSE	HSSE	HSSE	HSSE	HSSE
	B	R40	B	R40
C / 2-3P	B / 4-5P	C / 2-3P	B / 4-5P	C / 2-3P
2B	2B	2B	2B	2B

UNC	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		INDEX	C2-121101	C2-111101	C2-511101	C2-111801	C2-511801
No 4-40	2,844	40	0,635	56	10	5	18	3,5	2,7	2,35	4104					
No 5-40	3,175	40	0,635	56	10	7	18	3,5	2,7	2,65	4105	●	●	●	●	●
No 6-32	3,505	32	0,794	56	12	6	20	4	3	2,85	4106	●	●	●	●	●
No 8-32	4,165	32	0,794	63	12	7	21	4,5	3,4	3,5	4108	●	●	●	●	●
No 10-24	4,826	24	1,058	70	14	8	25	6	4,9	3,9	4110	●	●	●	●	●
No 12-24	5,486	24	1,058	80	18	10	30	6	4,9	4,5	4112	●	●	●	●	●
1/4-20	6,350	20	1,27	80	18	13	30	7	5,5	5,1	4127	●	●	●	●	●
5/16-18	7,938	18	1,411	90	20	13	35	8	6,2	6,6	4128	●	●	●	●	●
3/8-16	9,525	16	1,588	100	21	15	39	10	8	8	4129	●	●	●	●	●

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 C2-111101-4127
 DIN-371 B 1/4-20 UNC 2B HSSE 800

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

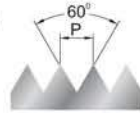
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

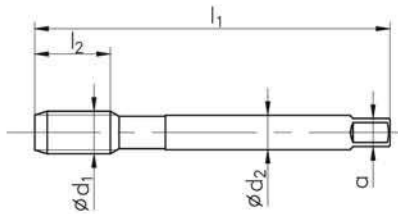
Gwint amerykański zunifikowany UNC, ANSI B-1.1

American unified coarse thread UNC, ANSI B-1.1

Amerikanisches Unified - Grobgewinde UNC, ANSI B-1.1



HSSE


DIN-376 (-DIN-2182)

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX
P1.2-P1.3	P1.3	P1.3	P1.3	P1.3
HSSE	HSSE	HSSE	HSSE	HSSE
<1.5d	<3d	<2.5d	<3d	<2.5d
	B	R40	B	R40
C / 2-3P	B / 4-5P	C / 2-3P	B / 4-5P	C / 2-3P
2B	2B	2B	2B	2B

UNC	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	Ød ₂	a		INDEX	D2-121101	D2-111101	D2-511101	D2-111801	D2-511801
7/16-14	11,112	14	1,814	100	22	15	8	6,2	9,3	4130	●	●	●	●	●
1/2-13	12,700	13	1,954	110	24	18	9	7	10,7	4131	●	●	●	●	●
9/16-12	14,288	12	2,117	110	25	20	11	9	12,3	4132	○	○	○	○	○
5/8-11	15,875	11	2,309	110	32	20	12	9	13,5	4133	●	●	●	●	●
3/4-10	19,050	10	2,504	125	32	25	14	11	16,5	4135	●	●	●	●	●
7/8-9	22,225	9	2,822	140	32	30	18	14,5	19,5	4137	○	○	○	○	○
1-8	25,400	8	3,175	160	38	30	20	16	22,25	4139	●	●	●	●	●
1.1/8-7	28,575	7	3,629	180	40	40	22	18	25	4141	○	○	○	○	○
1.1/4-7	31,750	7	3,629	180	40	37	22	18	28	4143	○	○	○	○	○
1.3/8-6	34,925	6	4,233	200	50	40	28	22	30,75	4145	○	○	○	○	○
1.1/2-6	38,100	6	4,233	200	55	55	28	22	34	4147	○	○	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-511801-4135
 DIN-376 C 3/4-10 UNC 2B R40 HSSE INOX

● Dostępne z magazynu, cena w cenniku

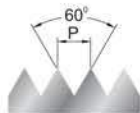
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

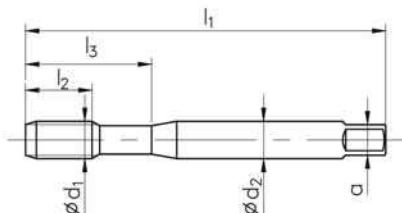
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint amerykański zunifikowany drobnozwojny UNF, ANSI B-1.1

American unified fine thread UNF, ANSI B-1.1
Amerikanisches Unified - Feingewinde UNF, ANSI B-1.1



HSSE



DIN-371 (~DIN-2183)



Zastosowanie / Application / Einsatzgebiete

Materiał obrabiany / Material / Werkstoff

Rodzaj materiału / Quality of material / Qualität

Typ otworu / Hole type / Lochform

Wykonanie / Execution / Ausführung

Rodzaj powłoki / Coating / Beschichtung

Nakrój / Chamfer / Anschnitt

Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX
P1.2-P1.3	P1.3	P1.3	P1.3	P1.3
HSSE	HSSE	HSSE	HSSE	HSSE
<1,5d	<3d	<2,5d	<2,5d	<2,5d
	B	R40	B	R40
C / 2-3P	B / 4-5P	C / 2-3P	B / 4-5P	C / 2-3P
2B	2B	2B	2B	2B

UNF	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	l ₃	Ød ₂	a		INDEX	C2-121101	C2-111101	C2-511101	C2-111801	C2-511801
No 4-48	2,844	48	0,529	56	10	5	18	3,5	2,7	2,4	4204					
No 5-44	3,175	44	0,557	56	10	5	18	3,5	2,7	2,7	4205					
No 6-40	3,502	40	0,635	56	12	6	20	4	3	2,95	4206					
No 8-36	4,165	36	0,705	63	12	7	21	4,5	3,4	3,5	4208	●	●	●	●	●
No 10-32	4,826	32	0,794	70	14	8	25	6	4,9	4,1	4210	●	●	●	●	●
No 12-28	5,486	28	0,907	80	18	10	30	6	4,9	4,6	4212					
1/4-28	6,350	28	0,907	80	18	10	30	7	5,5	5,5	4227	●	●	●	●	●
5/16-24	7,937	24	1,058	90	20	13	35	8	6,2	6,9	4228	●	●	●	●	●
3/8-24	9,525	24	1,058	100	21	15	39	10	8	8,5	4229	●	●	●	●	●

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

C2-121101-4227
DIN-371 C 1/4-28 UNF 2B HSSE 800

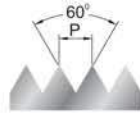
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

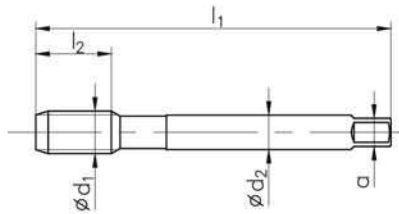
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint amerykański zunifikowany drobnozwojny UNF, ANSI B-1.1

 American unified fine thread UNF, ANSI B-1.1
 Amerikanisches Unified - Feingewinde UNF, ANSI B-1.1


HSSE


DIN-374 (~DIN-2183)

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	INOX	INOX
P1.2-P1.3	P1.3	P1.3	P1.3	
HSSE	HSSE	HSSE	HSSE	HSSE
	B	R40	B	R40
C / 2-3P	B / 4-5P	C / 2-3P	B / 4-5P	C / 2-3P
2B	2B	2B	2B	2B

UNF	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	Ød ₂	a		INDEX	D2-121101	D2-111101	D2-511101	D2-111801	D2-511801
7/16-20	11,112	20	1,270	100	22	15	8	6,2	9,9	4230	●	●	●	●	●
1/2-20	12,700	20	1,270	100	20	15	9	7	11,5	4231	●	●	●	●	●
9/16-18	14,288	18	1,411	100	20	15	11	9	13	4232	○	○	○	○	○
5/8-18	15,875	18	1,411	100	20	15	12	9	14,5	4233	●	●	●	●	●
3/4-16	19,050	16	1,588	110	24	17	14	11	17,5	4235	●	●	●	●	●
7/8-14	22,225	14	1,814	125	24	17	18	14,5	20,5	4237	○	○	○	○	○
1-12	25,400	12	2,117	140	27	20	18	14,5	23,3	4239	●	●	●	●	●
1.1/8-12	28,575	12	2,117	150	27	22	22	18	26,5	4241	○	○	○	○	○
1.1/4-12	31,750	12	2,117	150	27	22	22	18	29,5	4243	○	○	○	○	○
1.3/8-12	34,925	12	2,117	170	30	22	28	22	32,8	4245	○	○	○	○	○
1.1/2-12	38,100	12	2,117	170	30	24	32	24	36	4247	○	○	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-111101-4235
 DIN-374 B 3/4-16 UNF 2B HSSE 800

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

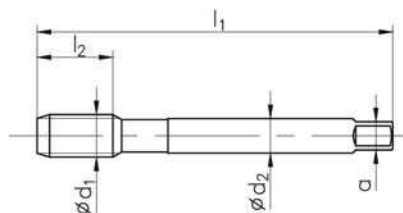
○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint rurowy walcowy G, DIN-ISO 228

 Whitworth pipe thread G, DIN-ISO 228
 Whitworth Rohrgewinde G, DIN-ISO 228


HSSE


DIN-5156

Zastosowanie / Application / Einsatzgebiete
Materiał obrabiany / Material / Werkstoff
Rodzaj materiału / Quality of material / Qualität
Typ otworu / Hole type / Lochform
Wykonanie / Execution / Ausführung
Rodzaj powłoki / Coating / Beschichtung
Nakrój / Chamfer / Anschnitt
Tolerancja / Tolerance / Toleranz

800	800	800	800	800	800
P1.2-P1.3	P1.3 N4.5, N4.8	P1.3	P1.3	P1.2-P1.3	P1.2-P1.3 N4.5, N4.8, N4.9
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
	B	B	R40	R40	R40
		OX		OX	TIN
C / 2-3P	B / 4-5P	B / 4-5P	C / 2-3P	C / 2-3P	C / 2-3P

G	Ød ₁	1"/P	P	l ₁	l ₂	l ₂ R40	Ød ₂	a		INDEX	D2-121101	D2-111101	D2-116101	D2-511101	D2-516101	D2-513101
G-1/16"	7,723	28	0,907	90	17	10	6	4,9	6,7	3121	○	○	○	○	○	○
G-1/8"	9,728	28	0,907	90	18	10	7	5,5	8,8	3123	●	●	●	●	●	●
G-1/4"	13,157	19	1,337	100	22	14	11	9	11,8	3127	●	●	●	●	●	●
G-3/8"	16,662	19	1,337	100	22	15	12	9	15,25	3129	●	●	●	●	●	●
G-1/2"	20,955	14	1,814	125	25	17	16	12	19	3131	●	●	●	●	●	●
G-5/8"	22,911	14	1,814	125	25	17	18	14,5	21	3133	●	●	○	●	○	○
G-3/4"	26,441	14	1,814	140	28	20	20	16	24,5	3135	●	●	●	●	●	●
G-7/8"	30,201	14	1,814	150	28	22	22	18	28,25	3137	●	●	○	●	○	○
G-1"	33,249	11	2,309	160	30	24	25	20	30,75	3139	●	●	●	●	●	●
G-1.1/8"	37,907	11	2,309	170	34	24	28	22	35,5	3141	○	○	○	○	○	○
G-1.1/4"	41,910	11	2,309	170	30	25	32	22	39,5	3143	○	○	○	○	○	○
G-1.1/2"	47,800	11	2,309	190	32	-	36	29	45,25	3147	○	○	○			
G-1.3/4"	53,756	11	2,309	190	36	-	40	32	51	3151	○	○	○			
G-2"	59,614	11	2,309	220	40	-	45	35	57	3155	○	○	○			

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 D2-511101-3131
 DIN-5156 C G-1/2" R40 HSSE 800

● Dostępne z magazynu, cena w cenniku

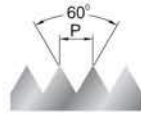
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

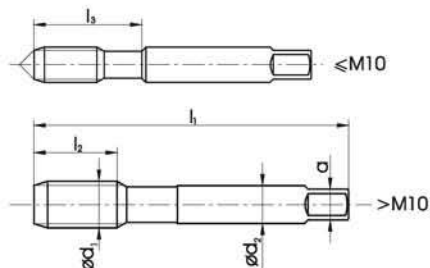
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13
Metrisches ISO-Regelgewinde DIN-13





HSS



ISO-529 / DIN-352



Materiał obrabiany / Material / Werkstoff	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3
Rodzaj materiału / Quality of material / Qualität	HSS	HSS	HSS	HSS	HSS
Typ otworu / Hole type / Lochform				 <2,5d	 <2,5d
Wykonanie / Execution / Ausführung	Nr1	Nr2	Nr3	/3	/2
Nakrój / Chamfer / Anschnitt	8P	4P	2P		
Tolerancja / Tolerance / Toleranz			ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

M	P	l ₁	l ₂	l ₃	Ød ₂	a	
Ød ₁							

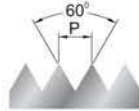
DIN-352								INDEX	A1-231001	A1-232001	A1-233001	A1-230001	-
M 1	0,25	38,5	5,5	10	2,5	2	0,75	0010	●	●	●	●	
M 1,1	0,25	38,5	5,5	10	2,5	2	0,85	0011	●	●	●	●	
M 1,2	0,25	38,5	5,5	10	2,5	2	0,95	0012	●	●	●	●	
M 1,4	0,3	40	7	12	2,5	2	1,1	0014	●	●	●	●	
M 1,6	0,35	41	8	13	2,5	2	1,25	0016	●	●	●	●	
M 1,7	0,35	41	8	13	2,5	2	1,3	0017	●	●	●	●	
M 1,8	0,35	41	8	13	2,5	2	1,45	0018	●	●	●	●	
M 2	0,4	41	8	13,5	2,5	2	1,6	0020	●	●	●	●	
M 2,2	0,45	44,5	9,5	15,5	2,8	2,24	1,75	0022	●	●	●	●	
M 2,3	0,4	44,5	9,5	15,5	2,8	2,24	1,9	0023	●	●	●	●	
M 2,5	0,45	44,5	9,5	15,5	2,8	2,24	2,05	0025	●	●	●	●	
M 2,6	0,45	44,5	9,5	15,5	2,8	2,24	2,1	0026	●	●	●	●	
DIN-352								INDEX	A1-131001	A1-132001	A1-133001	A1-130001	A1-120001
M 3	0,5	48	11	19	3,15	2,5	2,5	0030	●	●	●	●	●
M 3,5	0,6	50	13	19	3,55	2,8	2,9	0035	●	○	○	○	●
M 4	0,7	53	13	22	4	3,15	3,3	0040	●	●	●	●	●
M 4,5	0,75	53	13	22	4,5	3,55	3,8	0045	●	○	○	○	●
M 5	0,8	58	16	26	5	4	4,2	0050	●	●	●	●	●
M 6	1	66	19	29	6,3	5	5	0060	●	●	●	●	●
M 7	1	66	19	29	7,1	5,6	6	0070	●	●	●	●	●
M 8	1,25	72	22	32	8	6,3	6,8	0080	●	●	●	●	●
M 9	1,25	72	22	33	9	7,1	7,8	0090	●	●	●	●	●
M 10	1,5	80	24	36	10	8	8,5	0100	●	●	●	●	●
M 11	1,5	85	25		8	6,3	9,5	0110	●	●	●	●	●
M 12	1,75	89	29		9	7,1	10,2	0120	●	●	●	●	●

Przykład zamawiania / Example of order / Beispiel einer Bestellung:
A1-130001-0120
ISO-529/3 M12 ISO2 HSS

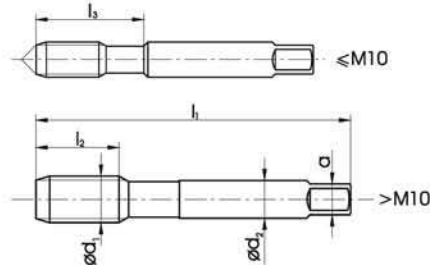
● Dostępne z magazynu, cena w cenniku
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste
○ Do szybkiej dostawy, cena na zapytanie
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13
Metrisches ISO-Regelgewinde DIN-13



HSS



DIN-352



								P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	
Material obrabiany / Material / Werkstoff								HSS	HSS	HSS	HSS	HSS	
Rodzaj materiału / Quality of material / Qualität								HSS	HSS	HSS	HSS	HSS	
Typ otworu / Hole type / Lochform													
Wykonanie / Execution / Ausführung								Nr1	Nr2	Nr3	/3	/2	
Nakrój / Chamfer / Anschnitt								8P	4P	2P			
Tolerancja / Tolerance / Toleranz										ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	
M	P	l ₁	l ₂	l ₃	Ød ₂	a							
DIN-352								INDEX	A1-231001	A1-232001	A1-233001	A1-230001	A1-220001
M 14	2	80	26		11	9	12	0140	●	●	●	●	●
M 16	2	80	27		12	9	14	0160	●	●	●	●	●
M 18	2,5	95	30		14	11	15,5	0180	●	●	●	●	●
M 20	2,5	95	32		16	12	17,5	0200	●	●	●	●	●
M 22	2,5	100	32		18	14,5	19,5	0220	●	●	●	●	●
M 24	3	110	34		18	14,5	21	0240	●	●	●	●	●
M 27	3	110	36		20	16	24	0270	●	●	●	●	●
M 30	3,5	125	40		22	18	26,5	0300	●	●	●	●	●
M 33	3,5	125	40		25	20	29,5	0330	●	●	●	●	●
M 36	4	150	50		28	22	32	0360	●	●	●	●	●
M 39	4	150	50		32	24	35	0390	●	●	●	●	●
M 42	4,5	150	56		32	24	37,5	0420	●	●	●	●	●
M 45	4,5	160	58		36	29	40,5	0450	●	●	●	●	●
M 48	5	180	65		36	29	43	0480	●	●	●	●	●
M 52	5	180	65		40	32	47	0520	●	●	●	●	●
M 56	5,5	180	70		40	32	50,5	0560	○	○	○	○	○
M 60	5,5	200	70		45	35	54,5	0600	○	○	○	○	○
M 64	6	220	75		50	39	58	0640	○	○	○	○	○
M 68	6	220	75		50	39	62	0680	○	○	○	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

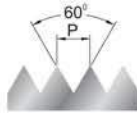
A1-233001-0680
DIN-352 Nr3 M68 ISO2 HSS

- Dostępne z magazynu, cena w cenniku
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste
- Do szybkiej dostawy, cena na zapytanie
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

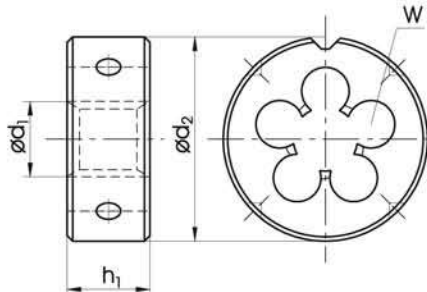
Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13



HSS HSSE



DIN-EN 22 568



LH

Zastosowanie / Application / Einsatzgebiete

Materiał obrabiany / Material / Werkstoff

Rodzaj materiału / Quality of material / Qualität

Wykonanie / Execution / Ausführung

Nakrój / Chamfer / Anschnitt

Tolerancja / Tolerance / Toleranz

	800	800	800 SPN	INOX	Ms
	P1.2-1.3, N4.2	P1.2-1.3, N4.2	P1.2-1.3, N4.2	P1.2-1.3, M2.1-M2.2, N4.2-4.3	N4.5-4.6
	HSS	HSS	HSS	HSSE	HSS
		LH			
	1,75P	1,75P	1,75P	2,25P	1,25P
	6g	6g	6g	6g	6g

M	P	$\varnothing d_2 \times h_1$	W		INDEX	N1-121001	N1-111001	N1-141001	N2-188001	N1-164001
M 1	0,25	16 x 5	3	0,96	0010	●				
M 1,1	0,25	16 x 5	3	1,05	0011	●				
M 1,2	0,25	16 x 5	3	1,15	0012	●				
M 1,4	0,3	16 x 5	3	1,35	0014	●				
M 1,6	0,35	16 x 5	3	1,55	0016	●				
M 1,8	0,35	16 x 5	3	1,75	0018	●				
M 2	0,4	16 x 5	3	1,95	0020	●				
M 2,2	0,45	16 x 5	3	2,15	0022	●				
M 2,5	0,45	16 x 5	3	2,42	0025	●				
M 3	0,5	20 x 5	3	2,92	0030	●	●	●	●	●
M 3,5	0,6	20 x 5	3	3,41	0035	●	○	●	○	○
M 4	0,7	20 x 5	3	3,90	0040	●	○	●	○	○
M 4,5	0,75	20 x 7	3	4,40	0045	●	○	●	○	○
M 5	0,8	20 x 7	3	4,90	0050	●	○	●	○	○
M 6	1	20 x 7	4	5,88	0060	●	○	●	○	○
M 7	1	25 x 9	4	6,88	0070	●	○	●	○	○
M 8	1,25	25 x 9	4	7,86	0080	●	○	●	○	○
M 9	1,25	25 x 9	4	8,86	0090	●	○	●	○	○
M 10	1,5	30 x 11	4	9,85	0100	●	○	●	○	○
M 11	1,5	30 x 11	4	10,85	0110	●	○	●	○	○
M 12	1,75	38 x 14	4	11,83	0120	●	○	●	○	○
M 14	2	38 x 14	4	13,82	0140	●	○	●	○	○
M 16	2	45 x 18	5	15,82	0160	●	○	●	○	○
M 18	2,5	45 x 18	5	17,79	0180	●	○	●	○	○
M 20	2,5	45 x 18	5	19,79	0200	●	○	●	○	○
M 22	2,5	55 x 22	5	21,79	0220	●	○	●	○	○
M 24	3	55 x 22	5	23,76	0240	●	○	●	○	○
M 27	3	65 x 25	5	26,76	0270	●	○	●	○	○
M 30	3,5	65 x 25	6	29,73	0300	●	○	●	○	○
M 33	3,5	65 x 25	6	32,73	0330	●	○	●	○	○
M 36	4	65 x 25	7	35,70	0360	●	○	●	○	○
M 39	4	75 x 30	7	38,70	0390	●	○	●	○	○
M 42	4,5	75 x 30	7	41,68	0420	●	○	●	○	○
M 45	4,5	90 x 36	7	44,68	0450	●	○	●	○	○
M 48	5	90 x 36	7	47,66	0480	●	○	●	○	○
M 52	5	90 x 36	8	51,66	0520	●	○	●	○	○
M 56	5,5	105 x 36	6	55,65	0560	●	○	●	○	○
M 60	5,5	105 x 36	8	59,65	0600	●	○	●	○	○
M 64	6	120 x 36	7	63,62	0640	●	○	●	○	○
M 68	6	120 x 36	8	67,62	0680	●	○	●	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

N1-121001-0030
DIN-EN 22 568 M3 6g HSS 800

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

		MSBa				MSBa pod gwint / in thread / der Faden			
		Wymiar sprawdzianu według normy PN-72/M-02140 Gauge dimensions PN-72/M-02140 Lehrenmaße nach PN-72/M-02140				Wymiar sprawdzianu według normy ISO 1502 Gauge dimensions ISO 1502 Lehrenmaße nach ISO 1502			
				<p>Powyżej $\varnothing 52$ sprawdziany przechodnie mają symbol MSCb, a nieprzechodnie MSCc i wykonywane są z rękojeściami oddzielnymi</p> <p><i>Go gauges above $\varnothing 52$ are called MSCb and no MSCc and they are produced with separate handle</i></p> <p><i>Bei dem Durchmesser über $\varnothing 52$ mm Gut-Lehrdorn unter Bezeichnung MSCb und Ausschuss-Lehrdorn unter Bezeichnung MSCc, mit einseitigen Handgriffen</i></p>					
Typ sprawdzianu Type of gauge / Lehrentyp GO - Przechodni Go / Gut NOGO - Nieprzechodni No go / Ausschuss									
Symbol / Symbol / Symbol		MSBa		MSBa		MSBa pod gwint / in thread / der Faden		MSBa pod gwint / in thread / der Faden	
Typ / Type / Typ		GO / NOGO		GO / NOGO		GO / NOGO		GO / NOGO	
Tolerancja / Tolerance / Toleranz		H7		H8		6H		6G	
\varnothing nom.	INDEX	S3-100111	S3-100112	M	P	INDEX	S3-100161	S3-100162	
1	0010	●	○	M 3	0,5	0030	○	○	
1,2	0012	●	○	M 3,5	0,6	0035	○	○	
1,5	0015	●	○	M 4	0,7	0040	○	○	
1,8	0018	●	○	M 4,5	0,75	0045	○	○	
2	0020	●	○	M 5	0,8	0050	●	○	
2,2	0022	●	○	M 6	1	0060	●	○	
2,5	0025	●	○	M 7	1	0070	○	○	
2,8	0028	●	○	M 8	1,25	0080	●	○	
3	0030	●	○	M 9	1,25	0090	○	○	
3,5	0035	○	○	M 10	1,5	0100	○	○	
4	0040	●	○	M 12	1,75	0120	●	○	
4,5	0045	○	○	M 14	2	0140	○	○	
5	0050	○	○	M 16	2	0160	●	○	
6	0060	●	○	M 18	2,5	0180	●	○	
7	0070	○	○	M 20	2,5	0200	○	○	
8	0080	●	○	M 22	2,5	0220	○	○	
9	0090	○	○						
10	0100	●	○	MF	P	INDEX	S3-100161	S3-100162	
12	0120	●	○						
14	0140	●	○	M 8 x 0,5	0,5	0081	○	○	
16	0160	●	○	M 8 x 0,75	0,75	0082	○	○	
18	0180	●	○	M 8 x 1	1	0083	○	○	
20	0200	●	○	M 9 x 1	1	0093	○	○	
22	0220	●	○	M 10 x 0,75	0,75	0102	○	○	
24	0240	●	○	M 10 x 1	1	0103	○	○	
25	0250	●	○	M 10 x 1,25	1,25	0104	○	○	
26	0260	●	○	M 11 x 1	1	0113	○	○	
27	0270	○	○	M 12 x 1	1	0123	○	○	
28	0280	○	○	M 12 x 1,25	1,25	0124	○	○	
30	0300	●	○	M 12 x 1,5	1,5	0125	○	○	
32	0320	●	○	M 13 x 1	1	0133	○	○	
33	0330	●	○	M 14 x 1	1	0143	○	○	
34	0340	●	○	M 14 x 1,25	1,25	0144	○	○	
35	0350	●	○	M 14 x 1,5	1,5	0145	●	○	
36	0360	●	○	M 15 x 1	1	0153	○	○	
37	0370	●	○	M 15 x 1,5	1,5	0155	○	○	
38	0380	●	○	M 16 x 1	1	0163	○	○	
40	0400	●	○	M 16 x 1,5	1,5	0165	○	○	
42	0420	●	○	M 18 x 1	1	0183	○	○	
44	0440	○	○	M 18 x 1,5	1,5	0185	○	○	
45	0450	●	○	M 18 x 2	2	0186	○	○	
46	0460	○	○	M 20 x 1	1	0203	○	○	
47	0470	●	○	M 20 x 1,5	1,5	0205	●	○	
48	0480	○	○	M 20 x 2	2	0206	○	○	
50	0500	●	○	M 22 x 1	1	0223	○	○	
52	0520	○	○	M 22 x 1,5	1,5	0225	○	○	
				M 22 x 2	2	0226	○	○	

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 S3-100111-0100
 MSBa 10 H7

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13


Zestaw sprawdzianów

Set of gauges

Satz der Gewindelehrdörne

CZD-8 MSBg M3÷M12

Index: Z3-302161-0312


Wymiar sprawdzianu według normy ISO 1502

Gauge dimensions ISO 1502

Lehrenmaße nach ISO 1502

Typ sprawdzianu / Type of gauge / Lehrentyp:
GO - Przechodni / Go / Gut
NOGO - Nieprzechodni / No go / Ausschuss

Symbol / Symbol / Symbol

MSBg

 MSBg
LH

MSBg

MSRh

MSRk

Typ / Type / Typ

GO / NOGO

GO / NOGO

GO / NOGO

GO

NOGO

Tolerancja / Tolerance / Toleranz

6H

6H

6G

6g

6g

M	P	INDEX	S3-302161	S3-301161	S3-302162	Y3-412162	Y3-422162
M 1	0,25	0010	●	○	○	●	●
M 1,2	0,25	0012	●	○	○	●	●
M 1,4	0,3	0014	●	○	○	●	●
M 1,6	0,35	0016	●	○	○	●	●
M 1,7	0,35	0017	●	○	○	●	●
M 1,8	0,35	0018	●	○	○	●	●
M 2	0,4	0020	●	○	○	●	●
M 2,2	0,45	0022	●	○	○	●	●
M 2,5	0,45	0025	●	○	○	●	●
M 2,6	0,45	0026	●	○	○	●	●
M 3	0,5	0030	●	○	○	●	●
M 3,5	0,6	0035	●	○	○	●	●
M 4	0,7	0040	●	○	○	●	●
M 4,5	0,75	0045	●	○	○	●	●
M 5	0,8	0050	●	○	○	●	●
M 6	1	0060	●	○	○	●	●
M 7	1	0070	●	○	○	●	●
M 8	1,25	0080	●	○	○	●	●
M 9	1,25	0090	●	○	○	●	●
M 10	1,5	0100	●	○	○	●	●
M 12	1,75	0120	●	○	○	●	●
M 14	2	0140	●	○	○	●	●
M 16	2	0160	●	○	○	●	●
M 18	2,5	0180	●	○	○	●	●
M 20	2,5	0200	●	○	○	●	●
M 22	2,5	0220	●	○	○	●	●
M 24	3	0240	●	○	○	●	●
M 27	3	0270	●	○	○	●	●
M 30	3,5	0300	●	○	○	●	●
M 33	3,5	0330	●	○	○	●	●
M 36	4	0360	●	○	○	●	●
M 39	4	0390	●	○	○	●	●
M 42	4,5	0420	●	○	○	●	●
M 45	4,5	0450	●	○	○	●	●
M 48	5	0480	●	○	○	●	●
M 52	5	0520	●	○	○	●	●

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 S3-302161-0030
 MSBg M3 6H

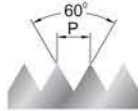
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint metryczny drobnozwojny ISO DIN-13

 ISO Metric fine thread DIN-13
 Metrisches ISO-Feingewinde DIN-13

Zestaw sprawdzianów^{NEW}
 Set of gauges
 Satz der Gewindelehrdörne

CZD-8 MSRh M3÷M12
 Index: Z3-200120-0312

Wymiar sprawdzianu według normy ISO 1502
 Gauge dimensions ISO 1502
 Lehrenmaße nach ISO 1502

Typ sprawdzianu / Type of gauge / Lehrentyp:
GO - Przechodni / Go / Gut
NOGO - Nieprzechodni / No go / Ausschuss
Symbol / Symbol / Symbol
Typ / Type / Typ
Tolerancja / Tolerance / Toleranz

MSBg	MSBg LH	MSBg	MSRh	MSRk
GO / NOGO	GO / NOGO	GO / NOGO	GO	NOGO
6H	6H	6G	6g	6g

MF	P	INDEX	S3-302161	S3-301161	S3-302162	Y3-412162	Y3-422162
M 3 x 0,35	0,35	0031	o	o	o	o	o
M 3,5 x 0,35	0,35	0036	o	o	o	o	o
M 4 x 0,35	0,35	0043	o	o	o	o	o
M 4x0,5	0,5	0041	o	o	o	o	o
M 4,5 x 0,5	0,5	0046	o	o	o	o	o
M 5 x 0,5	0,5	0051	o	o	o	o	o
M 6 x 0,5	0,5	0061	o	o	o	o	o
M 6 x 0,75	0,75	0062	o	o	o	o	o
M 8 x 0,5	0,5	0081	o	o	o	o	o
M 8 x 0,75	0,75	0082	o	o	o	o	o
M 8 x 1	1	0083	●	●	o	●	●
M 9 x 1	1	0093	o	o	o	o	o
M 10 x 0,75	0,75	0102	o	o	o	o	o
M 10 x 1	1	0103	●	●	o	●	●
M 10 x 1,25	1,25	0104	●	●	o	●	●
M 11 x 1	1	0113	o	o	o	o	o
M 12 x 1	1	0123	●	●	o	●	●
M 12 x 1,25	1,25	0124	●	●	o	●	●
M 12 x 1,5	1,5	0125	o	o	o	o	o
M 13 x 1	1	0133	o	o	o	o	o
M 14 x 1	1	0143	o	o	o	o	o
M 14 x 1,25	1,25	0144	o	o	o	o	o
M 14 x 1,5	1,5	0145	●	●	o	●	●
M 15 x 1	1	0153	o	o	o	o	o
M 15 x 1,5	1,5	0155	o	o	o	o	o
M 16 x 1	1	0163	●	●	o	●	●
M 16 x 1,5	1,5	0165	●	●	o	●	●
M 18 x 1	1	0183	o	o	o	o	o
M 18 x 1,5	1,5	0185	o	o	o	o	o
M 18 x 2	2	0186	o	o	o	o	o
M 20 x 1	1	0203	●	●	o	●	●
M 20 x 1,5	1,5	0205	●	●	o	●	●
M 20 x 2	2	0206	o	o	o	o	o
M 22 x 1	1	0223	o	o	o	o	o
M 22 x 1,5	1,5	0225	●	●	o	●	●
M 22 x 2	2	0226	●	●	o	●	●
M 24 x 1	1	0243	o	o	o	o	o
M 24 x 1,5	1,5	0245	●	●	o	●	●
M 24 x 2	2	0246	●	●	o	●	●
M 25 x 1,5	1,5	0255	●	o	o	o	o
M 26 x 1,5	1,5	0265	●	o	o	o	o
M 27 x 1,5	1,5	0275	●	o	o	o	o

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 S3-302162-0083
 MSBg M8x1 6G

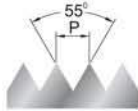
● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preislise

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

Gwint rurowy walcowy G, DIN-ISO 228

 Whitworth pipe thread G, DIN-ISO 228
 Whitworth Rohrgewinde G, DIN-ISO 228

Wymiar sprawdzianu według normy ISO 228-2

 Gauge dimensions ISO 228-2
 Lehrenmaße nach ISO 228-2

Typ sprawdzianu / Type of gauge / Lehrentyp:
GO - Przechodni / Go / Gut
NOGO - Nieprzechodni / No go / Ausschuss

Symbol / Symbol / Symbol

MSBg

MSRh

MSRk

Typ / Type / Typ

GO / NOGO

GO

NOGO

Tolerancja / Tolerance / Toleranz

A

A

G	Ø d _t	1"/P	INDEX	S3-302180	Y3-412180	Y3-422180
G-1/8"	9,73	28	3123	●	○	○
G-1/4"	13,16	19	3127	●	○	○
G-3/8"	16,66	19	3129	●	●	●
G-1/2"	20,96	14	3131	●	●	●
G-5/8"	22,91	14	3133	○	○	○
G-3/4"	26,44	14	3135	●	●	●
G-7/8"	30,20	14	3137	○	○	○
G-1"	33,25	11	3139	●	●	●
G-1.1/8"	37,90	11	3141	●	○	○
G-1.1/4"	41,91	11	3143	●	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 S3-302180-3127
 MSBg G-1/4"

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**Gwint amerykański rurowy stożkowy
 NPT 1:16, ANSI B-1.20.1**

American tapered pipe thread
 NPT 1:16, ANSI B-1.20.1
 Amerikanisches kegeliges Rohrgewinde
 NPT 1:16, ANSI B-1.20.1


Wymiar sprawdzianu według normy ANSI/ASME B1.20.1

Gauge system ANSI/ASME B1.20.1

Lehrensyst. ANSI/ASME B1.20.1



Symbol / Symbol / Symbol

MSXa

MSXc

Typ / Type / Typ

Tolerancja / Tolerance / Toleranz

NPT Ø d ₁	1"/P	INDEX	S3-332100	Y3-432100
1/16"	27	4621	○	○
1/8"	27	4623	○	○
1/4"	18	4627	○	○
3/8"	18	4629	●	○
1/2"	14	4631	●	○
3/4"	14	4635	●	○
1"	11.1/2	4639	●	○
1.1/4"	11.1/2	4643	○	○
1.1/2"	11.1/2	4647	○	○
2"	11.1/2	4655	○	○

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

S3-332100-4627
 MSXa 1/4" NPT

● Dostępne z magazynu, cena w cenniku

Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

POKRĘTKI DO GWINTOWNIKÓW

 TAP WRENCHES
 VERSTELLBARE WINDEISEN

Oznaczenie Sign Bezeichnung	□	l	M		INDEX
			ISO-529	DIN-352	
PBPc/m - 0	2 ÷ 4,5	125	M1 ÷ M5	M1 ÷ M4	V0-303000-0204
PBPc/m - 1	3,15 ÷ 6,3	205	M4 ÷ M8	M3 ÷ M11	V0-303010-0306
PBPc/m - 1,5	2,5 ÷ 7,1	205	M3 ÷ M9	M3 ÷ M12	V0-303015-0207
PBPc/m - 2	3,55 ÷ 9	305	M4,5 ÷ M14	M4,5 ÷ M16	V0-303020-0309
PBPc/m - 4	5,6 ÷ 16	395	M7 ÷ M30	M11 ÷ M27	V0-303040-0516


POKRĘTKI TYPU "T" DO GWINTOWNIKÓW

 TAP WRENCHES TYP T
 VERSTELLBARE WINDEISEN TYPE "T"

Oznaczenie Sign Bezeichnung	□	l	M		INDEX
			ISO-529	DIN-352	
PT Nr 1	2,0 ÷ 4,0	55	M1 ÷ M5	M1 ÷ M4	V0-310000-0205
PT Nr 1D	2,0 ÷ 4,0	200	M1 ÷ M5	M1 ÷ M4	V0-311000-0205
PT Nr 2	4,0 ÷ 7,1	90	M6 ÷ M12	M5 ÷ M12	V0-320000-0612
PT Nr 2D	4,0 ÷ 7,1	250	M6 ÷ M12	M5 ÷ M12	V0-321000-0612
PT Nr 3	9,0 ÷ 11,2	110	M14 ÷ M20	M14 ÷ M18	V0-330000-1420


POKRĘTKI Z GRZECHOTKĄ DO GWINTOWNIKÓW

 TAP WRENCHES WITH RATCHET SYSTEM
 WINDEISEN MIT RATSCH

Oznaczenie Sign Bezeichnung	l	M	INDEX
PG Nr 1	85	M3 ÷ M6	V0-310500-0306
PG Nr 1 D	250	M3 ÷ M6	V0-311500-0306
PG Nr 2	110	M6 ÷ M12	V0-320500-0612
PG Nr 2 D	300	M6 ÷ M12	V0-321500-0612


PRZEDŁUŻACZE DO GWINTOWNIKÓW

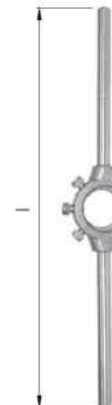
 EXTENSION SLEEVES FOR TAPS
 GEWINDEBOHRERVERLÄNGERUNGEN

Oznaczenie Sign Bezeichnung	□	l	M		INDEX
			ISO-529	DIN-352	
PBNa - 5	5,0	110	M6		V0-200000-0050
PBNa - 6,3	6,3	120	M8, M11		V0-200000-0063
PBNa - 7,1	7,1	125	M9, M12		V0-200000-0071
PBNa - 8	8,0	130	M10		V0-200000-0080
PBNa - 9	9,0	130	M14	M14, M16	V0-200000-0090
PBNa - 10	10,0	140	M16		V0-200000-0100


OPRAWKI DO NARZYNEK

 DIE STOCKS
 SCHNEIDEISENHALTER

Oznaczenie Sign Bezeichnung	l	M	INDEX
PBGa/m - 16x5	160	M1 ÷ M2,5	V0-103000-1605
PBGa/m - 20x5	185	M3 ÷ M4	V0-103000-2005
PBGa/m - 25x9	220	M7 ÷ M9	V0-103000-2509
PBGa/m - 30x11	260	M10 ÷ M11	V0-103000-3011
PBGa/m - 38x14	310	M12 ÷ M14	V0-103000-3814
PBGa/m - 45x18	400	M16 ÷ M20	V0-103000-4518
PBGa/m - 55x22	500	M22 ÷ M24	V0-103000-5522
PBGa/m - 65x25	560	M27 ÷ M36	V0-103000-6525





MODEL	MPD-08/II	MPD-12/II	MPD-16/II	MPD-22/II	MPD-27/II
INDEX	P0-130000-10208	P0-130000-10312	P0-130000-10316	P0-130000-10322	P0-130000-10327
Zakres gwintowania <i>Tapping range</i> <i>Gewinde-Schneidbereich</i>	M2-M8	M3-M12	M3-M16	M3-M22	M3-M27
n [1/min]	700	400	300	120/300	70/220
Pole robocze <i>Working area</i> <i>Arbeitsfeld</i>	Rmax=1900mm		Rmin=200mm		
Masa [kg] <i>Weight [kg]</i> <i>Gewicht [kg]</i>	23	23	27	39	39
Max. moment obr. [Nm] <i>Max. torque [Nm]</i> <i>Max. Drehmoment [Nm]</i>	12	32	12	100	160
Wydatek powietrza [l/min] <i>Air flow rate [l / min]</i> <i>Druckluftverbrauch [l/min]</i>	840	840	840	935	935
Zabieraki w dostawie <i>Adapters in the delivery</i> <i>Schnellwechseleinsätze im Lieferumfang</i>	FZS19/... M2,3,4,5,6,8	FZS19/... M4,5,6,8,10,12	FZS31/... M6,8,10,12,14,16	FZS31/... M6,8,10,12,16,20	FZS31/... M8,10,12,16,20,24
Zabieraki w opcji <i>Adapters in option</i> <i>Schnellwechseleinsätze als Option</i>	-	FZS19/M3	FZS19/...M3,4,5 +FR31/19	FZS19/...M3,4,5 +FR-31/19; FZS31/...M14,18,22	FZS19/...M3,4,5 +FR-31/19; FZS31/...M6,14,18,22,27

Wyposażenie standardowe / Standard accessories / Standardausrüstung

- wrzeciono z napędem pneumatycznym
- podwójne sztywne ramię
- kolumna mocująca
- system przygotowania powietrza
- promieniowy wysięgnik
- sześć zabieraków do gwintowników

- spindle with pneumatic drive
- dual rigid arm
- mounting column
- air preparation system
- radial arm
- six adapters for taps

- Spindel mit pneumatischem Antrieb
- Verstärktes Doppelarm
- Tischbefestigungssäule
- Wartungseinheit für Druckluft
- Radiales Arm
- 6 Stück Schnellwechseleinsätze für Gewindebohrer

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

P0-130000-10208
MPD-08/II

GLÓWICA UCHYLNA DO MOCOWANIA WRZECIONA Z PŁYNNĄ REGULACJĄ KĄTA 0-90°

 TILTING HEAD FOR SPINDLE MOUNTING WITH ADJUSTABLE ANGLE IN RANGE 0-90°
 SCHWENKKOPF, EINSELLBAR IM BEREICH 0-90°


MODEL	Masa Weight Gewicht	INDEX
MGO-08-90°	1,1 kg	P0-133000-00890
MGO-12-90°	1,1 kg	P0-133000-01290
MGO-16-90°	1,5 kg	P0-133000-01690
MGO-22-90°	1,5 kg	P0-133000-02290
MGO-27-90°	1,5 kg	P0-133000-02790

PODSTAWA MAGNETYCZNA DO MASZYN

 MAGNETIC BASE FOR MACHINES
 MAGNETFLANSCH ZUR BEFESTIGUNG DER MASCHINE


MODEL	Siła mocująca Clamping force Spannkraft	Wymiary Dimensions Masse	Do maszyny For machine Für Maschine	Masa Weight Gewicht	INDEX
MMP-300	300 kg	150x90x93	MPD-08,12,16	8,6 kg	P0-133000-00300
MMP-600	600 kg	224x115x120	MPD-22,27	21 kg	P0-133000-00600

ADAPTERY DO UCHWYTU WIERTARSKIEGO

 DRILL CHUCK ADAPTORS
 ADAPTER FÜR BOHRFUTTER

UCHWYTY WIERTARSKIE

 DRILL CHUCKS
 BOHRFUTTER


MODEL	d	Stożek Taper Kegel	A	INDEX	MODEL	Stożek Taper Kegel	A	H	d	INDEX
FZA19/JT2	19	JT2	30	R-FZA19/JT2	OW-JT2/D8	JT2	38	68	0-8	R-OW-JT2/D8
FZA19/JT6	19	JT6	30	R-FZA19/JT6	OW-JT6/D13	JT6	48	90	0-13	R-OW-JT6/D13
FZA31/JT6	31	JT6	48	R-FZA31/JT6						

PNEUMATYCZNE GWINCIARKI RĘCZNE

 PNEUMATIC HAND TAPPING MACHINES
 PNEUMATISCHE HAND-GEWINDESCHNEIDMASCHINEN

MPP-12-1
Z głowicą elastyczną
 With flexible head
 Mit Elastikkopf

MPP-12-3
Z oprawką na zabieraki FZS
 With holder for FZS adapters
 Mit Spannfutter für Schnellwechseleinsätze FZS

MODEL	M	n [1/min]	Stożek Taper Kegel	Wydatek powietrza Air flow rate Druckluftverbrauch	Średnica przewodu zasil. Diameter of the pipe Durchmesser der Rohrleitung	Masa Weight Gewicht	Wyposażenie Equipment Ausrüstung	INDEX
MPP-12-1	M2-M12	250	B12	400 l/min	9,5 mm	2 kg	Rękojeść / Handle / Griff	P0-136000-00121
MPP-12-3	M2-M12	250	B12	400 l/min	9,5 mm	1,5 kg	Rękojeść / Handle / Griff + FZS19/...M3,4,5,6,8,10	P0-136000-00123

Przykład zamawiania / Example of order / Beispiel einer Bestellung:

 P0-136000-00121
 MPP-12-1

TECHMO

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30 RUE DE MONTARAN
45400 FLEURY LES AUBRAIS
commercial.techmo@techmo.fr
02 38 61 48 10

SATECH

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ZAC DU PANORAMA
72100 LE MANS
magasin@satech.fr
02 43 40 05 05



TECHMO MERIGNAC

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33700 MERIGNAC
magasin.merignac@techmo.fr
05 61 61 34 35

TECHMO SERRES CASTET

95 RUE NORMANDIE NIEMEN
64121 SERRES CASTET
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05 59 90 34 10

TECHMO TOULOUSE

18 CHEMIN DE LA VIOLETTE
31240 L'UNION
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TECHMO BRON

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