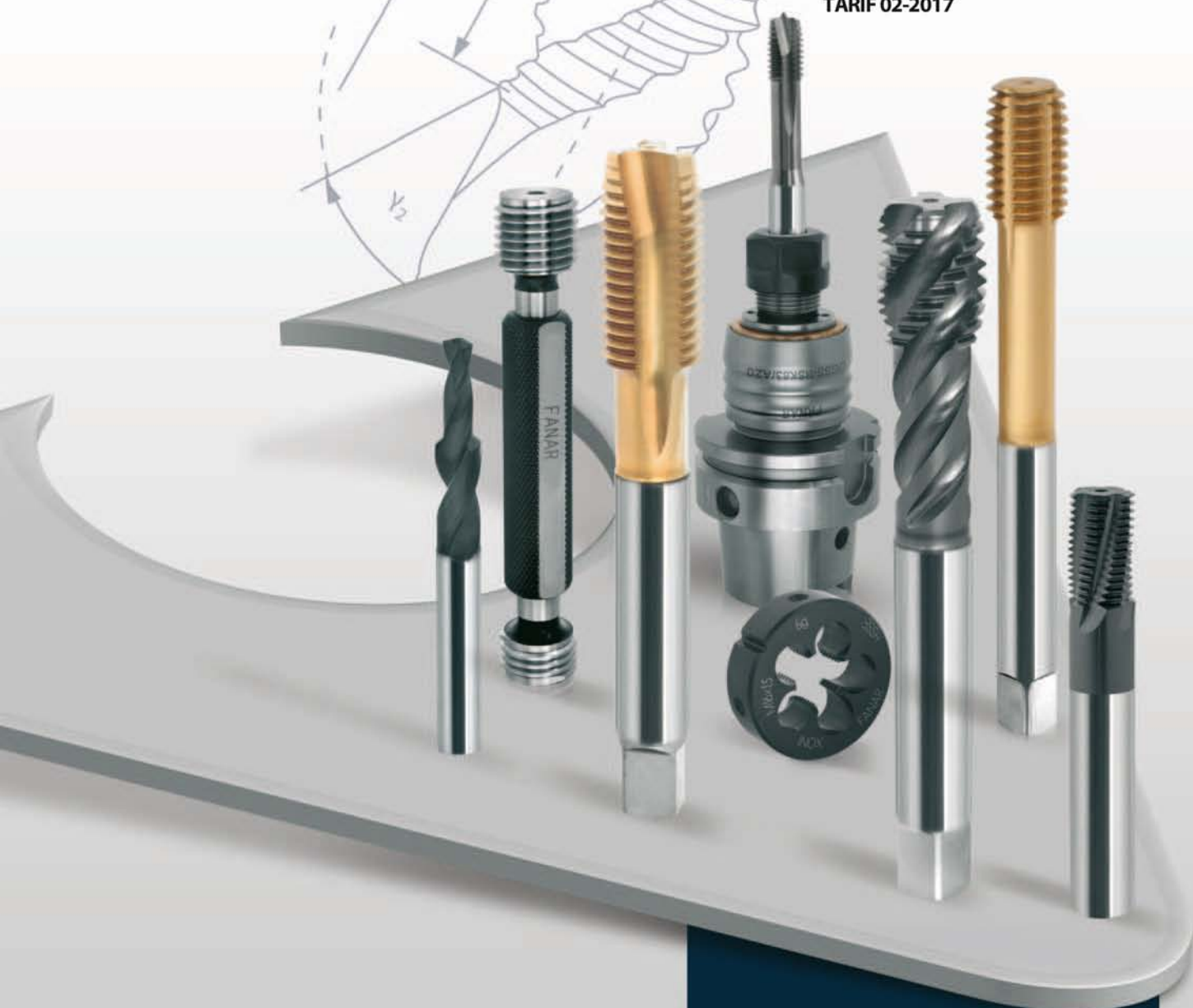


TOOLS FOR THREADS  
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# Sélection 2017

TARIF 02-2017



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## TARIF DES REFERENCES STOCKEES

### Pour les autres références : prix sur demande

Réf. FANAR	Designation	Code TECHMO	PRIX €	Pages
<b>800X TN</b>				
C2-113X01-0030	TAR GUN M3,0x05 HSSE B - TN	045362	11,72	<a href="#">p13</a>
C2-113X01-0040	TAR GUN M4,0x0,7 HSSE B - TN	045364	11,90	<a href="#">p13</a>
C2-113X01-0050	TAR GUN M5,0x0,8 HSSE B - TN	045367	12,87	<a href="#">p13</a>
C2-113X01-0060	TAR GUN M6,0x1,0 HSSE B - TN	045369	13,32	<a href="#">p13</a>
C2-113X01-0080	TAR GUN M8,0x1,25 HSSE B - TN	045372	15,93	<a href="#">p13</a>
C2-113X01-0083	TAR GUN M8,0x1,0 HSSE B -TN	045486	19,65	<a href="#">p13</a>
C2-113X01-0100	TAR GUN M10,0x1,5 HSSE B - TN	045376	20,91	<a href="#">p13</a>
C2-113X01-0103	TAR GUN M10,0x1,0 HSSE B -TN	045487	24,14	<a href="#">p13</a>
C2-113X01-0104	TAR GUN M10,0x1,25 HSSE B -TN	045488	27,35	<a href="#">p13</a>
C2-513X01-0030	TAR HEL40° M3,0x0,5 HSSE C - TN	045751	12,71	<a href="#">p13</a>
C2-513X01-0040	TAR HEL40° M4,0x0,7 HSSE C - TN	045753	12,92	<a href="#">p13</a>
C2-513X01-0050	TAR HEL40° M5,0x0,8 HSSE C - TN	045756	13,92	<a href="#">p13</a>
C2-513X01-0060	TAR HEL40° M6,0x0,1 HSSE C - TN	045758	14,37	<a href="#">p13</a>
C2-513X01-0080	TAR HEL40° M8,0x1,25 HSSE C - TN	045761	17,16	<a href="#">p13</a>
C2-513X01-0083	TAR HEL40° M8,0x1,0 HSSE C -TN	045492	21,29	<a href="#">p13</a>
C2-513X01-0100	TAR HEL40° M10,0x1,5 HSSE C - TN	045765	22,47	<a href="#">p13</a>
C2-513X01-0103	TAR HEL40° M10,0x1,0 HSSE C -TN	045493	26,00	<a href="#">p13</a>
C2-513X01-0104	TAR HEL40° M10,0x1,25 HSSE C -TN	045494	29,51	<a href="#">p13</a>
D2-113X01-0120	TAR GUN M12,0x1,75 HSSE B - TN	045389	29,10	<a href="#">p13</a>
D2-113X01-0125	TAR GUN M12,0x1,5 HSSE B -TN	045489	33,63	<a href="#">p13</a>
D2-113X01-0140	TAR GUN M14,0x2,0 HSSE B - TN	045393	38,45	<a href="#">p13</a>
D2-113X01-0145	TAR GUN M14,0x1,5 HSSE B -TN	045490	44,63	<a href="#">p13</a>
D2-113X01-0165	TAR GUN M16,0x1,5 HSSE B - TN	045491	46,65	<a href="#">p13</a>
D2-113X01-0180	TAR GUN M18,0x2,5 HSSE B - TN	045402	56,63	<a href="#">p13</a>
D2-113X01-0200	TAR GUN M20,0x2,5 HSSE B - TN	045406	61,85	<a href="#">p13</a>
D2-113X01-0220	TAR GUN M22,0x2,5 HSSE B - TN	045410	83,67	<a href="#">p13</a>
D2-113X01-0240	TAR GUN M24,0x3,0 HSSE B -TN	045414	85,02	<a href="#">p13</a>
D2-113X01-0270	TAR GUN M27,0x3,0 HSSE B - TN	045420	112,23	<a href="#">p13</a>
D2-113X01-0300	TAR GUN M30,0x3,5 HSSE B - TN	045425	127,68	<a href="#">p13</a>
D2-113X01-0330	TAR GUN M33,0x3,5 HSSE B - TN	045430	183,27	<a href="#">p13</a>
D2-113X01-0360	TAR GUN M36,0x4,0 HSSE B - TN	045435	246,80	<a href="#">p13</a>
D2-513X01-0120	TAR HEL40° M12,0x1,75 HSSE B - TN	045778	31,38	<a href="#">p13</a>
D2-513X01-0125	TAR HEL40° M12,0x1,5 HSSE C -TN	045495	36,32	<a href="#">p13</a>
D2-513X01-0140	TAR HEL40° M14,0x2,0 HSSE B - TN	045782	41,55	<a href="#">p13</a>
D2-513X01-0145	TAR HEL40° M14,0x1,5 HSSE C -TN	045496	48,33	<a href="#">p13</a>
D2-513X01-0160	TAR HEL40° M16,0x2,0 HSSE B - TN	045787	44,97	<a href="#">p13</a>
D2-513X01-0165	TAR HEL40° M16,0x1,5 HSSE C -TN	045497	50,46	<a href="#">p13</a>
D2-513X01-0180	TAR HEL40° M18,0x2,5 HSSE B - OX	045790	61,16	<a href="#">p13</a>
D2-513X01-0200	TAR HEL40° M20,0x2,5 HSSE B - TN	045794	66,71	<a href="#">p13</a>
D2-513X01-0220	TAR HEL40° M22,0x2,5 HSSE B - TN	045798	90,54	<a href="#">p13</a>
D2-513X01-0240	TAR HEL40° M24,0x3,0 HSSE B - TN	045802	91,43	<a href="#">p13</a>
D2-513X01-0270	TAR HEL40° M27,0x3,0 HSSE B - TN	045808	117,26	<a href="#">p13</a>
D2-513X01-0300	TAR HEL40° M30,0x3,5 HSSE B - TN	045813	137,64	<a href="#">p13</a>
D2-513X01-0330	TAR HEL40° M33,0x3,5 HSSE B - TN	045818	188,57	<a href="#">p13</a>
D2-513X01-0360	TAR HEL40° M36,0x4,0 HSSE B - TN	045823	266,78	<a href="#">p13</a>
<b>INOX OX</b>				
C2-116801-0020	TAR GUN M2,6x0,45 HSSE B - OX	045468	16,55	<a href="#">P14</a>
C2-116801-0030	TAR GUN M3,0x0,5 HSSE B - OX	045458	10,42	<a href="#">P14</a>
C2-116801-0035	TAR GUN M3,5x0,6 HSSE B - OX	045469	12,50	<a href="#">P14</a>
C2-116801-0040	TAR GUN M4,0x0,7 HSSE B - OX	045460	10,54	<a href="#">P14</a>
C2-116801-0045	TAR GUN M4,5x0,75 HSSE B - OX	045461	16,95	<a href="#">P14</a>
C2-116801-0050	TAR GUN M5,0x0,8 HSSE B - OX	045462	11,15	<a href="#">P14</a>
C2-116801-0060	TAR GUN M6,0x1,0 HSSE B - OX	045463	11,15	<a href="#">P14</a>
C2-116801-0070	TAR GUN M7,0x1,0 HSSE B - OX	045464	15,80	<a href="#">P14</a>
C2-116801-0080	TAR GUN M8,0x1,25 HSSE B - OX	045465	12,99	<a href="#">P14</a>
C2-116801-0090	TAR GUN M9,0x1,25 HSSE B - OX	045466	21,13	<a href="#">P14</a>
C2-116801-0100	TAR GUN M10,0x1,5 HSSE B - OX	045467	16,63	<a href="#">P14</a>

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<b>FAN TICN</b>				
C4-115001-0030	TAR GUN TICN C4-115001 M3 -F	047780	13,20	<a href="#">P14</a>
C4-115001-0040	TAR GUN TICN C4-115001 M4 -F	047781	13,40	<a href="#">P14</a>
C4-115001-0050	TAR GUN TICN C4-115001 M5 -F	047782	14,47	<a href="#">P14</a>
C4-115001-0060	TAR GUN TICN C4-115001 M6 -F	047783	14,92	<a href="#">P14</a>
C4-115001-0080	TAR GUN TICN C4-115001 M8 -F	047785	17,90	<a href="#">P14</a>
C4-115001-0100	TAR GUN TICN C4-115001 M10 -F	047787	23,49	<a href="#">P14</a>
<b>INOX OX</b>				
D2-116801-0120	TAR GUN M12,0x1,75 HSSE B - OX	045470	23,54	<a href="#">p15</a>
D2-116801-0140	TAR GUN M14,0x2,0 HSSE B - OX	045471	32,20	<a href="#">p15</a>
D2-116801-0160	TAR GUN M16,0x2,0 HSSE B - OX	045472	34,43	<a href="#">p15</a>
D2-116801-0180	TAR GUN M18,0x2,5 HSSE B - OX	045473	47,30	<a href="#">p15</a>
D2-116801-0200	TAR GUN M20,0x2,5 HSSE B - OX	045474	50,05	<a href="#">p15</a>
D2-116801-0220	TAR GUN M22,0x2,5 HSSE B - OX	045475	71,37	<a href="#">p15</a>
D2-116801-0240	TAR GUN M24,0x3,0 HSSE B - OX	045476	66,11	<a href="#">p15</a>
D2-116801-0270	TAR GUN M27,0x3,0 HSSE B - OX	045477	88,49	<a href="#">p15</a>
D2-116801-0300	TAR GUN M30,0x3,5 HSSE B - OX	045478	103,82	<a href="#">p15</a>
D2-116801-0330	TAR GUN M33,0x3,5 HSSE B - OX	045479	152,67	<a href="#">p15</a>
D2-116801-0360	TAR GUN M36,0x4,0 HSSE B - OX	045480	207,58	<a href="#">p15</a>
<b>FAN TICN</b>				
D4-115001-0120	TAR GUN TICN D4-115001 M12 -F	047789	32,68	<a href="#">p15</a>
D4-115001-0140	TAR GUN TICN D4-115001 M14 -F	047791	43,22	<a href="#">p15</a>
D4-115001-0160	TAR GUN TICN D4-115001 M16 -F	047793	46,85	<a href="#">p15</a>
D4-115001-0180	TAR GUN TICN D4-115001 M18 -F	047795	63,70	<a href="#">p15</a>
D4-115001-0200	TAR GUN TICN D4-115001 M20 -F	047797	69,54	<a href="#">p15</a>
<b>INOX OX</b>				
C2-516801-0030	TAR HEL40° M3,0x0,5 HSSE C - OX	045844	11,44	<a href="#">p16</a>
C2-516801-0035	TAR HEL40° M3,5x0,6 HSSE C - OX	045845	13,69	<a href="#">p16</a>
C2-516801-0040	TAR HEL40° M4,0x0,7 HSSE C - OX	045846	11,64	<a href="#">p16</a>
C2-516801-0050	TAR HEL40° M5,0x0,8 HSSE C - OX	045848	12,25	<a href="#">p16</a>
C2-516801-0060	TAR HEL40° M6,0x0,1 HSSE C - OX	045849	12,25	<a href="#">p16</a>
C2-516801-0070	TAR HEL40° M7,0x0,1 HSSE C - OX	045850	17,45	<a href="#">p16</a>
C2-516801-0080	TAR HEL40° M8,0x1,25 HSSE C - OX	045851	14,25	<a href="#">p16</a>
C2-516801-0100	TAR HEL40° M10,0x1,5 HSSE C - OX	045853	18,26	<a href="#">p16</a>
C4-516801-0025	TAR HEL40° M2,5x0,45 HSSE C - OX	045842	21,66	<a href="#">p16</a>
<b>INOX HL</b>				
C4-518801-0020	TAR HEL40° M2,0x0,4 HSSE C - HL	045620	19,90	<a href="#">p16</a>
<b>FAN TICN</b>				
C4-565001-0030	TAR TH40 TICN C4-565001 M3 -F	047832	14,35	<a href="#">p17</a>
C4-565001-0040	TAR TH40 TICN C4-565001 M4 -F	047833	14,55	<a href="#">p17</a>
C4-565001-0050	TAR TH40 TICN C4-565001 M5 -F	047834	15,70	<a href="#">p17</a>
C4-565001-0060	TAR TH40 TICN C4-565001 M6 -F	047835	16,18	<a href="#">p17</a>
C4-565001-0080	TAR TH40 TICN C4-565001 M8 -F	047836	20,83	<a href="#">p17</a>
C4-565001-0100	TAR TH40 TICN C4-565001 M10 -F	047837	25,24	<a href="#">p17</a>
<b>INOX OX</b>				
D2-516801-0120	TAR HEL40° M12,0x1,75 HSSE B-TIN	045856	25,90	<a href="#">P18</a>
D2-516801-0140	TAR HEL40° M14,0x2,0 HSSE B - TIN	045857	35,43	<a href="#">P18</a>
D2-516801-0160	TAR HEL40° M16,0x2,0 HSSE B - TIN	045858	37,87	<a href="#">P18</a>
D2-516801-0180	TAR HEL40° M18,0x2,5 HSSE B - TIN	045859	52,06	<a href="#">P18</a>
D2-516801-0200	TAR HEL40° M20,0x2,5 HSSE B - TIN	045860	55,07	<a href="#">P18</a>
D2-516801-0220	TAR HEL40° M22,0x2,5 HSSE B - TIN	045861	78,53	<a href="#">P18</a>
D2-516801-0240	TAR HEL40° M24,0x3,0 HSSE B - TIN	045862	72,77	<a href="#">P18</a>
D2-516801-0270	TAR HEL40° M27,0x3,0 HSSE B - TIN	045863	97,40	<a href="#">P18</a>
D2-516801-0300	TAR HEL40° M30,0x3,5 HSSE B - TIN	045864	114,16	<a href="#">P18</a>
D2-516801-0330	TAR HEL40° M33,0x3,5 HSSE B - TIN	045865	168,00	<a href="#">P18</a>
D2-516801-0360	TAR HEL40° M36,0x4,0 HSSE B - TIN	045866	228,34	<a href="#">P18</a>

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<b>1400 TICN</b>				
D4-505901-0120	TAR TH15 TICN D4-505901 M12-F	047704	38,04	P19
D4-505901-0140	TAR TH15 TICN D4-505901 M14-F	047706	52,79	P19
D4-505901-0160	TAR TH15 TICN D4-505901 M16-F	047708	54,71	P19
D4-505901-0200	TAR TH15 TICN D4-505901 M20-F	047712	84,29	P19
<b>FAN TICN</b>				
D4-565001-0120	TAR TH40 TICN D4-565001 M12 -F	047838	35,26	P19
D4-565001-0160	TAR TH40 TICN D4-565001 M16 -F	047839	50,63	P19
D4-565001-0200	TAR TH40 TICN D4-565001 M20 -F	047840	74,97	P19
<b>WGN TIN</b>				
C4-923005-0030	TAR A REFOULER HSSE-PM 6HX M3 TIN	045735	18,71	P20
C4-923005-0040	TAR A REFOULER HSSE-PM 6HX M4 TIN	045736	18,71	P20
C4-923005-0050	TAR A REFOULER HSSE-PM 6HX M5 TIN	045737	19,65	P20
C4-923005-0060	TAR A REFOULER HSSE-PM 6HX M6 TIN	045738	20,96	P20
C4-923005-0080	TAR A REFOULER HSSE-PM 6HX M8 TIN	045739	25,04	P20
C4-923005-0100	TAR A REFOULER HSSE-PM 6HX M10	045740	30,52	P20
<b>WGN TICN</b>				
C4-925005-0030	TAR A REFOUL HSSE-PM M3,0X0,5	045973	19,86	P20
C4-925005-0040	TAR A REFOUL HSSE-PM M4,0X0,7	045974	19,86	P20
C4-925005-0050	TAR A REFOUL HSSE-PM M5,0X0,8	045975	19,86	P20
C4-925005-0060	TAR A REFOUL HSSE-PM M6,0X1,0	045976	22,94	P20
C4-925005-0080	TAR A REFOUL HSSE-PM M8,0X1,25	045977	28,02	P20
C4-925005-0100	TAR A REFOUL HSSE-PM M10,0X1,5	045978	34,31	P20
<b>WGN TIN</b>				
D2-923105-0120	TAR A REFOUL HSSE-PM M12,0X1,75	045979	40,37	P21
D2-923105-0140	TAR A REFOUL HSSE-PM M14,0X2,0	045980	54,20	P21
D2-923105-0160	TAR A REFOUL HSSE-PM M16,0X2,0	045981	63,88	P21
D2-923105-0200	TAR A REFOUL HSSE-PM M20,0X2,5	045982	134,33	P21
<b>HCRC60 TICN</b>				
C9-135F01-0030	TAR CARB TICN HRC60 M3-F	045700	67,65	P22
C9-135F01-0040	TAR CARB TICN HRC60 M4-F	045701	69,38	P22
C9-135F01-0050	TAR CARB TICN HRC60 M5-F	045702	79,88	P22
C9-135F01-0060	TAR CARB IK TICN HRC60 M6-F	045703	71,50	P22
C9-135F01-0080	TAR CARB IK TICN HRC60 M8-F	045704	96,63	P22
C9-135F51-0100	TAR CARB IK TICN HRC60 M10-F	045705	328,43	P22
<b>HCRC60 TICN</b>				
D9-135F51-0120	TAR CARB IK TC HRC60 M12-F	045706	369,50	P23
D9-135F51-0160	TAR CARB IK TC HRC60 M16-F	045707	624,00	P23
<b>800 TIN</b>				
C2-113101-0041	TAR GUN M4,0x0,5 HSSE B - TICN	045277	15,70	P24
C2-113101-0062	TAR GUN M6,0x0,75 HSSE B - TICN	045282	17,36	P24
C2-113101-0082	TAR GUN M8,0x0,75 HSSE B - TICN	045285	19,58	P24
C2-113101-0083	TAR GUN M8,0x1,0 HSSE B - TICN	045286	18,38	P24
C2-113101-0102	TAR GUN M10,0x0,75 HSSE B - TICN	045289	27,09	P24
C2-113101-0103	TAR GUN M10,0x1,0 HSSE B - TICN	045291	22,68	P24
C2-113101-0104	TAR GUN M10,0x1,25 HSSE B - TICN	045292	25,62	P24
<b>800 OX</b>				
C2-116101-0041	TAR GUN M4,0x0,5 HSSE B - OX	045365	14,47	P24
C2-116101-0051	TAR GUN M5,0x0,5 HSSE B - OX	045368	20,35	P24
C2-116101-0062	TAR GUN M6,0x0,75 HSSE B - OX	045370	15,28	P24
C2-116101-0082	TAR GUN M8,0x0,75 HSSE B - OX	045373	16,55	P24
C2-116101-0083	TAR GUN M8,0x1,0 HSSE B - OX	045374	17,73	P24
C2-116101-0102	TAR GUN M10,0x0,75 HSSE B - OX	045377	22,76	P24
C2-116101-0103	TAR GUN M10,0x1,0 HSSE B - OX	045378	18,18	P24
C2-116101-0104	TAR GUN M10,0x1,25 HSSE B - OX	045379	21,28	P24
<b>800 TIN</b>				
D2-113101-0083	TAR GUN M8,0x1,0 HSSE B - TIN	045296	20,63	P25
D2-113101-0103	TAR GUN M10,0x1,0 HSSE B - TIN	045299	24,39	P25
D2-113101-0104	TAR GUN M10,0x1,25 HSSE B - TIN	045300	27,62	P25
D2-113101-0123	TAR GUN M12,0x1,0 HSSE B - TIN	045303	31,58	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	51,40	P25
D2-113101-0163	TAR GUN M16,0x1,0 HSSE B - TIN	045312	48,30	P25
D2-113101-0165	TAR GUN M16,0x1,5 HSSE B - TIN	045313	43,80	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	62,80	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	78,40	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	109,70	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
<b>800 OX</b>				
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	78,60	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	88,90	P25
D2-116101-0276	TAR GUN M27,0x2,0 HSSE B - OX	045422	96,98	P25
<b>800 TIN</b>				
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	147,66	P26

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D2-113101-0326	TAR GUN M32,0x2,0 HSSE B - TIN	045342	138,67	<a href="#">P26</a>
D2-113101-0335	TAR GUN M33,0x1,5 HSSE B - TIN	045344	172,33	<a href="#">P26</a>
D2-113101-0336	TAR GUN M33,0x2,0 HSSE B - TIN	045345	185,77	<a href="#">P26</a>
D2-113101-0365	TAR GUN M36,0x1,5 HSSE B - TIN	045349	231,97	<a href="#">P26</a>
D2-113101-0366	TAR GUN M36,0x2,0 HSSE B - TIN	045350	286,44	<a href="#">P26</a>
D2-113101-0367	TAR GUN M36,0x3,0 HSSE B - TIN	045351	250,03	<a href="#">P26</a>
D2-116101-0285	TAR GUN M28,0x1,5 HSSE B - OX	045423	88,90	<a href="#">P26</a>
D2-116101-0305	TAR GUN M30,0x1,5 HSSE B - OX	045426	104,27	<a href="#">P26</a>
<b>800 OX</b>				
D2-116101-0306	TAR GUN M30,0x2,0 HSSE B - OX	045427	113,74	<a href="#">P26</a>
D2-116101-0325	TAR GUN M32,0x1,5 HSSE B - OX	045428	113,74	<a href="#">P26</a>
D2-116101-0326	TAR GUN M32,0x2,0 HSSE B - OX	045429	113,74	<a href="#">P26</a>
D2-116101-0335	TAR GUN M33,0x1,5 HSSE B - OX	045431	139,45	<a href="#">P26</a>
D2-116101-0336	TAR GUN M33,0x2,0 HSSE B - OX	045432	153,37	<a href="#">P26</a>
D2-116101-0365	TAR GUN M36,0x1,5 HSSE B - OX	045436	189,53	<a href="#">P26</a>
D2-116101-0366	TAR GUN M36,0x2,0 HSSE B - OX	045437	246,32	<a href="#">P26</a>
D2-116101-0367	TAR GUN M36,0x3,0 HSSE B - OX	045434	208,48	<a href="#">P26</a>
<b>800 TIN</b>				
C2-513101-0041	TAR HEL40° M4,0x0,5 HSSE C - TIN	045626	17,16	<a href="#">P27</a>
C2-513101-0051	TAR HEL40° M5,0x0,5 HSSE C - TIN	045629	23,78	<a href="#">P27</a>
C2-513101-0062	TAR HEL40° M6,0x0,75 HSSE C - TIN	045631	17,81	<a href="#">P27</a>
C2-513101-0082	TAR HEL40° M8,0x0,75 HSSE C - TIN	045634	21,13	<a href="#">P27</a>
C2-513101-0083	TAR HEL40° M8,0x1,0 HSSE C - TIN	045635	19,86	<a href="#">P27</a>
C2-513101-0102	TAR HEL40° M10,0x0,75 HSSE C - TIN	045640	29,22	<a href="#">P27</a>
C2-513101-0103	TAR HEL40° M10,0x1,0 HSSE C - TIN	045645	24,40	<a href="#">P27</a>
C2-513101-0104	TAR HEL40° M10,0x1,25 HSSE C - TIN	045643	27,62	<a href="#">P27</a>
<b>800 OX</b>				
C2-516101-0041	TAR HEL40° M4,0x0,5 HSSE C - OX	045754	15,98	<a href="#">P27</a>
C2-516101-0051	TAR HEL40° M5,0x0,5 HSSE C - OX	045757	22,39	<a href="#">P27</a>
C2-516101-0062	TAR HEL40° M6,0x0,75 HSSE C - OX	045759	15,70	<a href="#">P27</a>
C2-516101-0082	TAR HEL40° M8,0x0,75 HSSE C - OX	045762	18,23	<a href="#">P27</a>
C2-516101-0083	TAR HEL40° M8,0x1,0 HSSE C - OX	045763	16,91	<a href="#">P27</a>
C2-516101-0102	TAR HEL40° M10,0x0,75 HSSE C - OX	045766	25,01	<a href="#">P27</a>
C2-516101-0103	TAR HEL40° M10,0x1,0 HSSE C - OX	045767	19,98	<a href="#">P27</a>
C2-516101-0104	TAR HEL40° M10,0x1,25 HSSE C - OX	045768	23,33	<a href="#">P27</a>
<b>INOX HL</b>				
C2-518801-0041	TAR HEL40° M4,0x0,5 HSSE C - HL	045870	18,23	<a href="#">P27</a>
C2-518801-0051	TAR HEL40° M5,0x0,5 HSSE C - HL	045871	25,60	<a href="#">P27</a>
C2-518801-0062	TAR HEL40° M6,0x0,75 HSSE C - HL	045872	19,35	<a href="#">P27</a>
C2-518801-0082	TAR HEL40° M8,0x0,75 HSSE C - HL	045873	24,05	<a href="#">P27</a>
C2-518801-0083	TAR HEL40° M8,0x1,0 HSSE C - HL	045874	22,70	<a href="#">P27</a>
C2-518801-0102	TAR HEL40° M10,0x0,75 HSSE C - HL	045875	33,80	<a href="#">P27</a>
C2-518801-0103	TAR HEL40° M10,0x1,0 HSSE C - HL	045876	28,53	<a href="#">P27</a>
C2-518801-0104	TAR HEL40° M10,0x1,25 HSSE C - HL	045877	32,05	<a href="#">P27</a>
<b>1400 TICN</b>				
C4-505901-0031	TAR TH15 TICN C4-505901 M3-F	047695	23,03	<a href="#">P28</a>
C4-505901-0040	TAR TH15 TICN C4-505901 M4 -F	047696	16,02	<a href="#">P28</a>
C4-505901-0050	TAR TH15 TICN C4-505901 M5 -F	047697	17,03	<a href="#">P28</a>
C4-505901-0060	TAR TH15 TICN C4-505901 M6-F	047698	18,23	<a href="#">P28</a>
C4-505901-0080	TAR TH15 TICN C4-505901 M8-F	047700	20,83	<a href="#">P28</a>
C4-505901-0100	TAR TH15 TICN C4-505901 M10-F	047702	27,29	<a href="#">P28</a>
<b>800 TIN</b>				
D2-513101-0083	TAR HEL40° M8,0x1,0 HSSE B - TIN	045644	22,34	<a href="#">P29</a>
D2-513101-0103	TAR HEL40° M10,0x1,0 HSSE B - TIN	045647	26,35	<a href="#">P29</a>
D2-513101-0104	TAR HEL40° M10,0x1,25 HSSE B - TIN	045649	29,90	<a href="#">P29</a>
D2-513101-0113	TAR HEL40° M11,0x1,0 HSSE B - TIN	045650	43,59	<a href="#">P29</a>
D2-513101-0123	TAR HEL40° M12,0x1,0 HSSE B - TIN	045652	34,08	<a href="#">P29</a>
D2-513101-0124	TAR HEL40° M12,0x1,25 HSSE B - TIN	045653	36,31	<a href="#">P29</a>
D2-513101-0125	TAR HEL40° M12,0x1,5 HSSE B - TIN	045654	34,08	<a href="#">P29</a>
D2-513101-0143	TAR HEL40° M14,0x1,0 HSSE B - TIN	045656	45,19	<a href="#">P29</a>

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D2-513101-0144	TAR HEL40° M14,0x1,25 HSSE B - TIN	045657	42,09	<a href="#">P29</a>
D2-513101-0145	TAR HEL40° M14,0x1,5 HSSE B - TIN	045658	45,19	<a href="#">P29</a>
D2-513101-0153	TAR HEL40° M15,0x1,0 HSSE B - TIN	045659	55,64	<a href="#">P29</a>
D2-513101-0163	TAR HEL40° M20,0x2,5 HSSE B - TIN	045661	52,21	<a href="#">P29</a>
D2-513101-0165	TAR HEL40° M16,0x1,5 HSSE B - TIN	045662	47,23	<a href="#">P29</a>
D2-513101-0183	TAR HEL40° M18,0x1,0 HSSE B - TIN	045664	71,09	<a href="#">P29</a>
D2-513101-0185	TAR HEL40° M18,0x1,5 HSSE B - TIN	045665	57,40	<a href="#">P29</a>
D2-513101-0186	TAR HEL40° M18,0x2,0 HSSE B - TIN	045666	64,23	<a href="#">P29</a>
D2-513101-0205	TAR HEL40° M20,0x1,5 HSSE B - TIN	045669	67,61	<a href="#">P29</a>
D2-513101-0206	TAR HEL40° M20,0x2,0 HSSE B - TIN	045670	82,16	<a href="#">P29</a>
D2-513101-0225	TAR HEL40° M22,0x1,5 HSSE B - TIN	045673	84,69	<a href="#">P29</a>
D2-513101-0226	TAR HEL40° M22,0x2,0 HSSE B - TIN	045674	98,46	<a href="#">P29</a>
D2-513101-0241	TAR HEL40° M24,0x1,0 HSSE B - TIN	045676	99,20	<a href="#">P29</a>
D2-513101-0245	TAR HEL40° M24,0x1,5 HSSE B - TIN	045677	92,78	<a href="#">P29</a>
D2-513101-0246	TAR HEL40° M24,0x2,0 HSSE B - TIN	045678	99,19	<a href="#">P29</a>
D2-513101-0255	TAR HEL40° M25,0x1,5 HSSE B - TIN	045679	126,98	<a href="#">P29</a>
D2-513101-0265	TAR HEL40° M26,0x1,5 HSSE B - TIN	045680	120,60	<a href="#">P29</a>
D2-513101-0275	TAR HEL40° M27,0x1,5 HSSE B - TIN	045682	118,84	<a href="#">P29</a>
D2-513101-0276	TAR HEL40° M27,0x2,0 HSSE B - TIN	045683	127,35	<a href="#">P29</a>
<b>800 OX</b>				
D2-516101-0083	TAR HEL40° M8,0x1,0 HSSE B - OX	045772	19,48	<a href="#">P29</a>
D2-516101-0103	TAR HEL40° M10,0x1,0 HSSE B - OX	045775	22,11	<a href="#">P29</a>
D2-516101-0104	TAR HEL40° M10,0x1,25 HSSE B - OX	045776	25,74	<a href="#">P29</a>
D2-516101-0124	TAR HEL40° M12,0x1,25 HSSE B - OX	045780	30,77	<a href="#">P29</a>
D2-516101-0125	TAR HEL40° M12,0x1,5 HSSE B - OX	045781	28,40	<a href="#">P29</a>
D2-516101-0144	TAR HEL40° M14,0x1,25 HSSE B - OX	045784	35,63	<a href="#">P29</a>
D2-516101-0145	TAR HEL40° M14,0x1,5 HSSE B - OX	045785	38,81	<a href="#">P29</a>
D2-516101-0163	TAR HEL40° M16,0x1,0 HSSE B - OX	045788	44,94	<a href="#">P29</a>
D2-516101-0165	TAR HEL40° M16,0x1,5 HSSE B - OX	045789	39,76	<a href="#">P29</a>
D2-516101-0185	TAR HEL40° M18,0x1,5 HSSE B - OX	045792	47,52	<a href="#">P29</a>
D2-516101-0203	TAR HEL40° M20,0x1,0 HSSE B - OX	045795	60,38	<a href="#">P29</a>
D2-516101-0205	TAR HEL40° M20,0x1,5 HSSE B - OX	045796	55,36	<a href="#">P29</a>
D2-516101-0223	TAR HEL40° M22,0x1,0 HSSE B - OX	045799	86,00	<a href="#">P29</a>
D2-516101-0225	TAR HEL40° M22,0x1,5 HSSE B - OX	045800	71,69	<a href="#">P29</a>
D2-516101-0245	TAR HEL40° M24,0x1,5 HSSE B - OX	045804	73,05	<a href="#">P29</a>
D2-516101-0246	TAR HEL40° M24,0x2,0 HSSE B - OX	045805	79,75	<a href="#">P29</a>
D2-516101-0265	TAR HEL40° M26,0x1,5 HSSE B - OX	045807	99,69	<a href="#">P29</a>
D2-516101-0275	TAR HEL40° M27,0x1,5 HSSE B - OX	045809	97,81	<a href="#">P29</a>
D2-516101-0276	TAR HEL40° M27,0x2,0 HSSE B - OX	045810	106,67	<a href="#">P29</a>
<b>800</b>				
D2-511101-0385	TAR HEL40° M38,0x1,5 HSSE C	045546	240,51	<a href="#">P30</a>
D2-511101-0395	TAR HEL40° M39,0x1,5 HSSE C	045544	264,53	<a href="#">P30</a>
D2-511101-0396	TAR HEL40° M39,0x2,0 HSSE C	045545	267,58	<a href="#">P30</a>
D2-511101-0397	TAR HEL40° M39,0x3,0 HSSE C	045549	317,11	<a href="#">P30</a>
D2-511101-0405	TAR HEL40° M40,0x1,5 HSSE C	045559	264,53	<a href="#">P30</a>
D2-511101-0425	TAR HEL40° M42,0x1,5 HSSE C	045562	284,43	<a href="#">P30</a>
D2-511101-0426	TAR HEL40° M42,0x2,0 HSSE C	045563	287,18	<a href="#">P30</a>
D2-511101-0427	TAR HEL40° M42,0x3,0 HSSE C	045564	287,18	<a href="#">P30</a>
D2-511101-0455	TAR HEL40° M45,0x1,5 HSSE C	045566	260,48	<a href="#">P30</a>
D2-511101-0456	TAR HEL40° M45,0x2,0 HSSE C	045567	287,18	<a href="#">P30</a>
D2-511101-0457	TAR HEL40° M45,0x3,0 HSSE C	045568	287,18	<a href="#">P30</a>
D2-511101-0485	TAR HEL40° M48,0x1,5 HSSE C	045569	311,38	<a href="#">P30</a>
D2-511101-0486	TAR HEL40° M48,0x2,0 HSSE C	045570	321,00	<a href="#">P30</a>
D2-511101-0487	TAR HEL40° M48,0x3,0 HSSE C	045571	305,75	<a href="#">P30</a>
D2-511101-0505	TAR HEL40° M50,0x1,5 HSSE C	045573	351,05	<a href="#">P30</a>
D2-511101-0506	TAR HEL40° M50,0x2,0 HSSE C	045574	351,05	<a href="#">P30</a>
D2-511101-0525	TAR HEL40° M52,0x1,5 HSSE C	045578	351,05	<a href="#">P30</a>
D2-511101-0526	TAR HEL40° M52,0x2,0 HSSE C	045576	351,05	<a href="#">P30</a>
D2-511101-0527	TAR HEL40° M52,0x3,0 HSSE C	045577	379,13	<a href="#">P30</a>

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<b>800 TIN</b>				
D2-513101-0285	TAR HEL40° M28,0x1,5 HSSE C - TIN	045684	123,35	P30
D2-513101-0286	TAR HEL40° M28,0x2,0 HSSE C - TIN	045685	154,85	P30
D2-513101-0305	TAR HEL40° M30,0x1,5 HSSE C - TIN	045687	139,55	P30
D2-513101-0306	TAR HEL40° M30,0x2,0 HSSE C - TIN	045688	149,54	P30
D2-513101-0325	TAR HEL40° M32,0x1,5 HSSE C - TIN	045689	158,56	P30
D2-513101-0326	TAR HEL40° M32,0x2,0 HSSE C - TIN	045690	153,05	P30
D2-513101-0335	TAR HEL40° M33,0x1,5 HSSE C - TIN	045692	180,28	P30
D2-513101-0336	TAR HEL40° M33,0x2,0 HSSE C - TIN	045693	200,52	P30
D2-513101-0345	TAR HEL40° M34,0x1,5 HSSE C - TIN	045694	223,30	P30
D2-513101-0355	TAR HEL40° M35,0x1,5 HSSE C - TIN	045695	279,40	P30
D2-513101-0365	TAR HEL40° M36,0x1,5 HSSE C - TIN	045697	250,03	P30
D2-513101-0366	TAR HEL40° M36,0x2,0 HSSE C - TIN	045698	310,10	P30
<b>800 OX</b>				
D2-516101-0285	TAR HEL40° M28,0x1,5 HSSE C - OX	045811	97,85	P30
D2-516101-0305	TAR HEL40° M30,0x1,5 HSSE C - OX	045814	114,64	P30
D2-516101-0306	TAR HEL40° M30,0x2,0 HSSE C - OX	045815	125,10	P30
D2-516101-0325	TAR HEL40° M32,0x1,5 HSSE C - OX	045816	125,10	P30
D2-516101-0326	TAR HEL40° M32,0x2,0 HSSE C - OX	045817	125,10	P30
D2-516101-0335	TAR HEL40° M33,0x1,5 HSSE C - OX	045819	153,37	P30
D2-516101-0336	TAR HEL40° M33,0x2,0 HSSE C - OX	045820	168,69	P30
D2-516101-0365	TAR HEL40° M36,0x1,5 HSSE C - OX	045824	208,49	P30
D2-516101-0366	TAR HEL40° M36,0x2,0 HSSE C - OX	045825	270,99	P30
D2-516101-0367	TAR HEL40° M36,0x3,0 HSSE C - OX	045826	211,71	P30
<b>INOX</b>				
C2-111801-4105	TAR GUN No 5-40 HSSE B	045220	14,08	P31
C2-111801-4106	TAR GUN No 6-32 HSSE B	045221	14,08	P31
C2-111801-4108	TAR GUN No 8-32 HSSE B	045222	14,03	P31
C2-111801-4110	TAR GUN No 10-24 HSSE B	045223	14,25	P31
C2-111801-4112	TAR GUN No 12-24 HSSE B	045224	15,08	P31
C2-111801-4127	TAR GUN No 1/4-20 HSSE B	045225	15,03	P31
C2-111801-4128	TAR GUN No 5/16-18 HSSE B	045226	16,28	P31
C2-111801-4129	TAR GUN No 3/8-16 HSSE B	045228	19,16	P31
<b>INOX</b>				
C2-511801-4106	TAR HEL40° No 6-32 HSSE B	045581	15,45	P31
C2-511801-4108	TAR HEL40° No 8-32 HSSE B	045582	15,45	P31
C2-511801-4110	TAR HEL40° No 10-24 HSSE B	045583	15,65	P31
C2-511801-4127	TAR HEL40° No 1/4-20 HSSE B	045585	16,47	P31
C2-511801-4128	TAR HEL40° No 5/16-18 HSSE B	045586	17,85	P31
C2-511801-4129	TAR HEL40° No 3/8-16 HSSE B	045587	21,13	P31
<b>INOX</b>				
D2-111801-4130	TAR GUN No 7/16-14 HSSE B	045236	27,33	P32
D2-111801-4131	TAR GUN No 1/2-13 HSSE B	045237	28,55	P32
D2-111801-4132	TAR GUN No 9/16-12 HSSE B	045238	37,30	P32
D2-111801-4133	TAR GUN No 5/8-11 HSSE B	045239	36,41	P32
<b>INOX</b>				
D2-511801-4130	TAR HEL40° No 7/16-14 HSSE B	045594	29,90	P32
D2-511801-4131	TAR HEL40° No 1/2-13 HSSE B	045595	29,90	P32
D2-511801-4132	TAR HEL40° No 9/16-12 HSSE B	045596	40,89	P32
D2-511801-4133	TAR HEL40° No 5/8-11 HSSE B	045597	40,09	P32
D2-511801-4135	TAR HEL40° No 3/4-10 HSSE B	045598	58,30	P32
D2-511801-4137	TAR HEL40° No 7/8-9 HSSE B	045599	83,06	P32
D2-511801-4139	TAR HEL40° No 1-8 HSSE B	045600	76,97	P32
<b>INOX</b>				
C2-111801-4210	TAR GUN No 10-32 HSSE B	045232	16,38	P33
C2-111801-4227	TAR GUN No 1/4-28 HSSE B	045233	18,08	P33
C2-111801-4228	TAR GUN No 5/16-24 HSSE B	045234	18,73	P33
C2-111801-4229	TAR GUN No 3/8-24 HSSE B	045235	22,20	P33
C2-511801-4208	TAR HEL40° No 8-36 HSSE B	045588	18,68	P33
C2-511801-4210	TAR HEL40° No 10-32 HSSE B	045589	18,88	P33

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C2-511801-4227	TAR HEL40° No 1/4-28 HSSE B	045590	19,81	P33
C2-511801-4228	TAR HEL40° No 5/16-24 HSSE B	045591	20,51	P33
C2-511801-4229	TAR HEL40° No 3/8-24 HSSE B	045592	24,31	P33
<b>INOX</b>				
D2-111801-4223	TAR GUN No 1/2-20 HSSE B	045252	31,25	P34
D2-111801-4230	TAR GUN No 7/16-20 HSSE B	045251	31,25	P34
D2-111801-4232	TAR GUN No 9/16-18 HSSE B	045254	42,69	P34
D2-111801-4233	TAR GUN No 5/8-18 HSSE B	045255	41,87	P34
D2-511801-4230	TAR HEL40° No 7/16-20 HSSE B	045605	34,40	P34
D2-511801-4231	TAR HEL40° No 1/2-20 HSSE B	045606	34,40	P34
D2-511801-4232	TAR HEL40° No 9/16-18 HSSE B	045607	47,03	P34
D2-511801-4233	TAR HEL40° No 5/8-18 HSSE B	045608	46,08	P34
D2-511801-4235	TAR HEL40° No 3/4-16 HSSE B	045609	67,04	P34
D2-511801-4237	TAR HEL40° No 7/8-14 HSSE B	045610	95,48	P34
D2-511801-4239	TAR HEL40° No 1-12 HSSE B	045611	88,49	P34
D2-511801-4241	TAR HEL40° No 1.1/8-12 HSSE B	045612	132,98	P34
D2-511801-4245	TAR HEL40° No 1.3/8-12 HSSE B	045614	246,68	P34
D2-511801-4247	TAR HEL40° No 1.1/2-12 HSSE B	045615	365,13	P34
<b>800 OX</b>				
D2-116101-3123	TAR GUN G1/8" HSSE B - OX	045440	21,28	P35
D2-116101-3127	TAR GUN G-1/4" HSSE B - OX	045441	38,21	P35
D2-116101-3129	TAR GUN G-3/8" HSSE B - OX	045442	37,71	P35
D2-116101-3131	TAR GUN G-1/2" HSSE B - OX	045443	50,33	P35
D2-116101-3133	TAR GUN G-5/8" HSSE B - OX	045444	78,20	P35
D2-116101-3135	TAR GUN G-3/4" HSSE B - OX	045445	88,94	P35
D2-116101-3139	TAR GUN G-1" HSSE B - OX	045447	167,30	P35
D2-116101-3141	TAR GUN G-1.1/8" HSSE B - OX	045448	250,15	P35
D2-116101-3143	TAR GUN G-1.1/4" HSSE B - OX	045449	248,90	P35
D2-116101-3147	TAR GUN G-1.1/2" HSSE B - OX	045450	264,87	P35
D2-116101-3151	TAR GUN G-1.3/4" HSSE B - OX	045451	359,57	P35
D2-116101-3155	TAR GUN G-2" HSSE B - OX	045452	446,42	P35
D2-516101-3123	TAR HEL40° G1/8" HSSE B - OX	045828	23,33	P35
D2-516101-3127	TAR HEL40° G-1/4" HSSE B - OX	045829	42,04	P35
D2-516101-3129	TAR HEL40° G-3/8" HSSE B - OX	045830	41,47	P35
D2-516101-3131	TAR HEL40° G-1/2" HSSE B - OX	045831	55,28	P35
D2-516101-3133	TAR HEL40° G-5/8" HSSE B - OX	045832	85,96	P35
D2-516101-3135	TAR HEL40° G-3/4" HSSE B - OX	045833	97,85	P35
D2-516101-3137	TAR HEL40° G-7/8" HSSE B - OX	045834	125,10	P35
D2-516101-3139	TAR HEL40° G-1" HSSE B - OX	045835	184,05	P35
<b>JEU 3 TARAUDS HSS</b>				
A1-230001-0030	JEU 3 TAR HSS M3X50 6H	044005	10,94	P36
A1-230001-0040	JEU 3 TAR HSS M4X70 6H	044010	10,94	P36
A1-230001-0050	JEU 3 TAR HSS M5X80 6H	044015	11,36	P36
A1-230001-0060	JEU 3 TAR HSS M6X100 6H	044020	12,01	P36
A1-230001-0070	JEU 3 TAR HSS M7X100 6H	044022	20,63	P36
A1-230001-0080	JEU 3 TAR HSS M8X125 6H	044024	14,29	P36
A1-230001-0100	JEU 3 TAR HSS M10X150 6H	044030	19,44	P36
A1-230001-0120	JEU 3 TAR HSS M12X175 6H	044034	26,66	P36
A1-230001-0140	JEU 3 TAR HSS M14X200 6H	044036	30,80	P37
A1-230001-0160	JEU 3 TAR HSS M16X200 6H	044038	37,01	P37
A1-230001-0180	JEU 3 TAR HSS M18X250 6H	044040	52,15	P37
A1-230001-0200	JEU 3 TAR HSS M20X250 6H	044042	57,52	P37
A1-230001-0220	JEU 3 TAR HSS M22X250 6H	044044	67,29	P37
A1-230001-0240	JEU 3 TAR HSS M24X300 6H	044046	74,94	P37
<b>FILIERE</b>				
N1-121001-0010	FILIERE DIN 22568 M1 6g HSS800	053150	10,49	P38
N1-121001-0020	FILIERE DIN 22568 M2 6g HSS800	053151	10,49	P38
N1-121001-0030	FILIERE DIN 22568 M3 6g HSS800	053152	6,10	P38
N1-121001-0040	FILIERE DIN 22568 M4 6g HSS800	053153	5,76	P38
N1-121001-0050	FILIERE DIN 22568 M5 6g HSS800	053154	5,90	P38

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N1-121001-0060	FILIERE DIN 22568 M6 6g HSS800	053155	5,90	P38
N1-121001-0070	FILIERE DIN 22568 M7 6g HSS800	053156	7,48	P38
N1-121001-0080	FILIERE DIN 22568 M8 6g HSS800	053157	6,63	P38
N1-121001-0090	FILIERE DIN 22568 M9 6g HSS800	053158	9,11	P38
N1-121001-0100	FILIERE DIN 22568 M10 6g HSS800	053159	8,48	P38
N1-121001-0110	FILIERE DIN 22568 M11 6g HSS800	053160	9,82	P38
N1-121001-0120	FILIERE DIN 22568 M12 6g HSS800	053161	10,81	P38
N1-121001-0140	FILIERE DIN 22568 M14 6g HSS800	053162	10,81	P38
N1-121001-0160	FILIERE DIN 22568 M16 6g HSS800	053164	19,49	P38
N1-121001-0180	FILIERE DIN 22568 M18 6g HSS800	053166	19,49	P38
N1-121001-0200	FILIERE DIN 22568 M20 6g HSS800	053168	19,49	P38
N1-121001-0220	FILIERE DIN 22568 M22 6g HSS800	053170	36,80	P38
N1-121001-0240	FILIERE DIN 22568 M24 6g HSS800	053172	36,80	P38
N1-121001-0270	FILIERE DIN 22568 M27 6g HSS800	053175	56,96	P38
N1-121001-0300	FILIERE DIN 22568 M30 6g HSS800	053178	59,39	P38
<b>TAMPON LISSE</b>				
S3-100111-0030	TAMPON LISSE DBLE D3 H7	555001	41,06	P39
S3-100111-0040	TAMPON LISSE DBLE D4 H7	555002	41,06	P39
S3-100111-0050	TAMPON LISSE DBLE D5 H7	555003	41,06	P39
S3-100111-0060	TAMPON LISSE DBLE D6 H7	555004	41,06	P39
S3-100111-0080	TAMPON LISSE DBLE D8 H7	555005	41,06	P39
S3-100111-0100	TAMPON LISSE DBLE D10 H7	555006	42,80	P39
S3-100111-0120	TAMPON LISSE DBLE D12 H7	555007	46,33	P39
S3-100111-0140	TAMPON LISSE DBLE D14 H7	555008	46,33	P39
S3-100111-0160	TAMPON LISSE DBLE D16 H7	555009	52,15	P39
S3-100111-0180	TAMPON LISSE DBLE D18 H7	555010	52,15	P39
S3-100111-0200	TAMPON LISSE DBLE D20 H7	555011	58,56	P39
S3-100111-0220	TAMPON LISSE DBLE D22 H7	555012	58,56	P39
S3-100111-0240	TAMPON LISSE DBLE D24 H7	555013	58,56	P39
S3-100111-0250	TAMPON LISSE DBLE D25 H7	555014	65,62	P39
S3-100111-0260	TAMPON LISSE DBLE D26 H7	555015	65,62	P39
S3-100111-0280	TAMPON LISSE DBLE D28 H7	555016	65,62	P39
S3-100111-0300	TAMPON LISSE DBLE D30 H7	555017	65,62	P39
S3-100111-0320	TAMPON LISSE DBLE D32 H7	555018	73,61	P39
S3-100111-0330	TAMPON LISSE DBLE D33 H7	555019	73,61	P39
S3-100111-0340	TAMPON LISSE DBLE D34 H7	555020	73,61	P39
S3-100111-0350	TAMPON LISSE DBLE D35 H7	555021	73,61	P39
S3-100111-0360	TAMPON LISSE DBLE D36 H7	555022	73,67	P39
S3-100111-0370	TAMPON LISSE DBLE D37 H7	555023	73,61	P39
S3-100111-0380	TAMPON LISSE DBLE D38 H7	555024	73,61	P39
S3-100111-0400	TAMPON LISSE DBLE D40 H7	555025	78,48	P39
S3-100111-0420	TAMPON LISSE DBLE D42 H7	555026	78,48	P39
S3-100111-0450	TAMPON LISSE DBLE D45 H7	555027	78,48	P39
S3-100111-0470	TAMPON LISSE DBLE D47 H7	555028	78,48	P39
S3-100111-0500	TAMPON LISSE DBLE D50 H7	555029	78,48	P39
<b>TAMPON FILETE DOUBLE</b>				
S3-302161-0030	TAMPON FIL. DBLE M3x0,5 6H	555040	109,06	P40
S3-302161-0035	TAMPON FIL. DBLE M3,5x0,6 6H	555041	109,06	P40
S3-302161-0040	TAMPON FIL. DBLE M4X0,7 Tol.6H	045062	31,50	P40
S3-302161-0045	TAMPON FIL. DBLE M4,5x0,75 6H	555043	68,21	P40
S3-302161-0050	TAMPON FIL. DBLE M5X0,8 Tol.6H	045063	31,50	P40
S3-302161-0060	TAMPON FIL. DBLE M6X1,0 Tol.6H	045064	31,50	P40
S3-302161-0070	TAMPON FIL. DBLE M7x1 6H	555046	68,21	P40
S3-302161-0080	TAMPON FIL. DBLE M8X1,25 Tol.6H	045065	36,25	P40
S3-302161-0083	TAMPON FIL. DBLE M8x1 6H	555048	85,21	P40
S3-302161-0090	TAMPON FIL. DBLE M9x1,25 6H	555049	71,78	P40
S3-302161-0100	TAMPON FIL. DBLE M10X1,5 Tol.6H	045066	41,00	P40
S3-302161-0103	TAMPON FIL. DBLE M10x1 6H	555051	89,12	P40
S3-302161-0104	TAMPON FIL. DBLE M10x1,25 6H	555052	89,12	P40
S3-302161-0120	TAMPON FIL. DBLE M12X1,75 Tol.6H	045067	42,75	P40

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S3-302161-0125	TAMPON FIL. DBLE M12x1,5 6H	555054	77,14	P40
S3-302161-0140	TAMPON FIL. DBLE M14x2 6H	555055	77,14	P40
S3-302161-0145	TAMPON FIL. DBLE M14x1,5 6H	555056	77,14	P40
S3-302161-0160	TAMPON FIL. DBLE M16X2,0 Tol.6H	045068	46,75	P40
S3-302161-0165	TAMPON FIL. DBLE M16x1,5 6H	555058	86,94	P40
S3-302161-0180	TAMPON FIL. DBLE M18x2,5 6H	555059	86,94	P40
S3-302161-0185	TAMPON FIL. DBLE M18x1,5 6H	555060	86,94	P40
S3-302161-0200	TAMPON FIL. DBLE M20x2,5 6H	555061	97,62	P40
S3-302161-0205	TAMPON FIL. DBLE M20x1,5 6H	555062	97,62	P40
S3-302161-0220	TAMPON FIL. DBLE M22x2,5 6H	555063	97,62	P40
S3-302161-0225	TAMPON FIL. DBLE M22x1,5 6H	555064	97,62	P40
S3-302161-0240	TAMPON FIL. DBLE M24x3 6H	555065	97,62	P40
S3-302161-0245	TAMPON FIL. DBLE M24x1,5 6H	555066	97,62	P40
S3-302161-0270	TAMPON FIL. DBLE M27x3 6H	555067	109,25	P40
S3-302161-0300	TAMPON FIL. DBLE M30x3,5 6H	555068	109,25	P40
S3-302161-0330	TAMPON FIL. DBLE M33x3,5 6H	555069	122,68	P40
S3-302161-0360	TAMPON FIL. DBLE M36x4 6H	555070	122,68	P40
S3-302161-0390	TAMPON FIL. DBLE M39x4 6H	555071	122,68	P40
S3-302161-0420	TAMPON FIL. DBLE M42x4,5 6H	555072	130,63	P40
S3-302161-0450	TAMPON FIL. DBLE M45x4,5 6H	555073	130,63	P40
S3-302161-0480	TAMPON FIL. DBLE M48x5 6H	555074	130,63	P40
S3-302161-0520	TAMPON FIL. DBLE M52x5 6H	555075	130,63	P40
<b>BAGUE FILETEE ENTRE</b>				
Y3-412162-0018	BAGUE FIL.ENTRE M1,8x0,35 6g	555089	140,38	P40
Y3-412162-0020	BAGUE FIL.ENTRE M2x0,4 6g	555090	140,38	P40
Y3-412162-0025	BAGUE FIL.ENTRE M2,5x0,45 6g	555091	105,17	P40
Y3-412162-0026	BAGUE FIL.ENTRE M2,6x0,45 6g	555092	105,17	P40
Y3-412162-0030	BAGUE FIL.ENTRE M3x0,5 6g	555093	79,48	P40
Y3-412162-0035	BAGUE FIL.ENTRE M3,5x0,6 6g	555094	73,76	P40
Y3-412162-0040	BAGUE FIL.ENTRE M4x0,7 6g	555095	72,17	P40
Y3-412162-0045	BAGUE FIL.ENTRE M4,5x0,75 6g	555096	72,17	P40
Y3-412162-0050	BAGUE FIL.ENTRE M5x0,8 6g	555097	72,17	P40
Y3-412162-0060	BAGUE FIL.ENTRE M6x1 6g	555098	72,17	P40
Y3-412162-0070	BAGUE FIL.ENTRE M7x1 6g	555099	72,17	P40
Y3-412162-0080	BAGUE FIL.ENTRE M8x1,25 6g	555100	73,76	P40
Y3-412162-0090	BAGUE FIL.ENTRE M9x1,25 6g	555102	79,48	P40
Y3-412162-0100	BAGUE FIL.ENTRE M10x1,5 6g	555103	86,15	P40
Y3-412162-0120	BAGUE FIL.ENTRE M12x1,75 6g	555106	99,96	P40
Y3-412162-0140	BAGUE FIL.ENTRE M14x2 6g	555108	110,40	P40
Y3-412162-0160	BAGUE FIL.ENTRE M16x2 6g	555110	122,23	P40
Y3-412162-0180	BAGUE FIL.ENTRE M18x2,5 6g	555112	139,23	P40
Y3-412162-0200	BAGUE FIL.ENTRE M20x2,5 6g	555114	154,74	P40
Y3-412162-0220	BAGUE FIL.ENTRE M22x2,5 6g	555116	168,71	P40
Y3-412162-0240	BAGUE FIL.ENTRE M24x3 6g	555118	180,48	P40
Y3-412162-0270	BAGUE FIL.ENTRE M27x3 6g	555121	201,11	P40
Y3-412162-0300	BAGUE FIL.ENTRE M30x3,5 6g	555123	220,21	P40
Y3-412162-0330	BAGUE FIL.ENTRE M33x3,5 6g	555125	240,83	P40
Y3-412162-0360	BAGUE FIL.ENTRE M36x4 6g	555126	259,87	P40
Y3-412162-0390	BAGUE FIL.ENTRE M39x4 6g	555127	282,08	P40
Y3-412162-0420	BAGUE FIL.ENTRE M42x4,5 6g	555129	306,30	P40
Y3-412162-0450	BAGUE FIL.ENTRE M45x4,5 6g	555130	324,83	P40
Y3-412162-0480	BAGUE FIL.ENTRE M48x5 6g	555131	343,98	P40
Y3-412162-0520	BAGUE FIL.ENTRE M52x5 6g	555133	369,77	P40
<b>BAGUE FILETEE ENTRE PAS</b>				
Y3-422162-0018	BAGUE FIL.ENTRE PAS M1,8x0,35 6g	555150	140,38	P40
Y3-422162-0020	BAGUE FIL.ENTRE PAS M2x0,4 6g	555151	140,38	P40
Y3-422162-0025	BAGUE FIL.ENTRE PAS M2,5x0,45 6g	555152	105,17	P40
Y3-422162-0026	BAGUE FIL.ENTRE PAS M2,6x0,45 6g	555153	105,17	P40
Y3-422162-0030	BAGUE FIL.ENTRE PAS M3x0,5 6g	555154	79,48	P40
Y3-422162-0035	BAGUE FIL.ENTRE PAS M3,5x0,6 6g	555155	73,76	P40

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Y3-422162-0040	BAGUE FIL.ENTRE PAS M4x0,7 6g	555156	72,17	P40
Y3-422162-0045	BAGUE FIL.ENTRE PAS M4,5x0,75 6g	555157	72,17	P40
Y3-422162-0050	BAGUE FIL.ENTRE PAS M5x0,8 6g	555158	72,17	P40
Y3-422162-0060	BAGUE FIL.ENTRE PAS M6x1 6g	555159	72,17	P40
Y3-422162-0070	BAGUE FIL.ENTRE PAS M7x1 6g	555160	72,17	P40
Y3-422162-0080	BAGUE FIL.ENTRE PAS M8x1,25 6g	555161	73,76	P40
Y3-422162-0090	BAGUE FIL.ENTRE PAS M9x1,25 6g	555163	79,48	P40
Y3-422162-0100	BAGUE FIL.ENTRE PAS M10x1,5 6g	555164	86,15	P40
Y3-422162-0120	BAGUE FIL.ENTRE PAS M12x1,75 6g	555167	99,96	P40
Y3-422162-0140	BAGUE FIL.ENTRE PAS M14x2 6g	555169	110,40	P40
Y3-422162-0160	BAGUE FIL.ENTRE PAS M16x2 6g	555171	122,23	P40
Y3-422162-0180	BAGUE FIL.ENTRE PAS M18x2,5 6g	555173	139,23	P40
Y3-422162-0200	BAGUE FIL.ENTRE PAS M20x2,5 6g	555175	154,74	P40
Y3-422162-0220	BAGUE FIL.ENTRE PAS M22x2,5 6g	555177	168,71	P40
Y3-422162-0240	BAGUE FIL.ENTRE PAS M24x3 6g	555179	180,48	P40
Y3-422162-0270	BAGUE FIL.ENTRE PAS M27x3 6g	555181	201,11	P40
Y3-422162-0300	BAGUE FIL.ENTRE PAS M30x3,5 6g	555183	220,21	P40
Y3-422162-0330	BAGUE FIL.ENTRE PAS M33x3,5 6g	555184	240,83	P40
Y3-422162-0360	BAGUE FIL.ENTRE PAS M36x4 6g	555185	259,87	P40
Y3-422162-0390	BAGUE FIL.ENTRE PAS M39x4 6g	555186	282,08	P40
Y3-422162-0420	BAGUE FIL.ENTRE PAS M42x4,5 6g	555188	306,30	P40
Y3-422162-0450	BAGUE FIL.ENTRE PAS M45x4,5 6g	555189	324,83	P40
Y3-422162-0480	BAGUE FIL.ENTRE PAS M48x5 6g	555190	343,98	P40
Y3-422162-0520	BAGUE FIL.ENTRE PAS M52x5 6g	555191	369,77	P40
<b>BAGUE FILETEE ENTRE</b>				
Y3-412162-0083	BAGUE FIL.ENTRE M8x1 6g	555101	82,51	P41
Y3-412162-0103	BAGUE FIL.ENTRE M10x1 6g	555104	92,80	P41
Y3-412162-0104	BAGUE FIL.ENTRE M10x1,25 6g	555105	95,88	P41
Y3-412162-0125	BAGUE FIL.ENTRE M12x1,5 6g	555107	103,09	P41
Y3-412162-0145	BAGUE FIL.ENTRE M14x1,5 6g	555109	110,40	P41
Y3-412162-0165	BAGUE FIL.ENTRE M16x1,5 6g	555111	120,64	P41
Y3-412162-0185	BAGUE FIL.ENTRE M18x1,5 6g	555113	130,97	P41
Y3-412162-0205	BAGUE FIL.ENTRE M20x1,5 6g	555115	141,33	P41
Y3-412162-0225	BAGUE FIL.ENTRE M22x1,5 6g	555117	151,60	P41
Y3-412162-0245	BAGUE FIL.ENTRE M24x1,5 6g	555119	161,90	P41
Y3-412162-0255	BAGUE FIL.ENTRE M25x1,5 6g	555120	186,90	P41
<b>BAGUE FILETEE ENTRE PAS</b>				
Y3-422162-0083	BAGUE FIL.ENTRE PAS M8x1 6g	555162	82,51	P41
Y3-422162-0103	BAGUE FIL.ENTRE PAS M10x1 6g	555165	92,80	P41
Y3-422162-0104	BAGUE FIL.ENTRE PAS M10x1,25 6g	555166	95,88	P41
Y3-422162-0125	BAGUE FIL.ENTRE PAS M12x1,5 6g	555168	103,09	P41
Y3-422162-0145	BAGUE FIL.ENTRE PAS M14x1,5 6g	555170	110,40	P41
Y3-422162-0165	BAGUE FIL.ENTRE PAS M16x1,5 6g	555172	120,64	P41
Y3-422162-0185	BAGUE FIL.ENTRE PAS M18x1,5 6g	555174	130,97	P41
Y3-422162-0205	BAGUE FIL.ENTRE PAS M20x1,5 6g	555176	141,33	P41
Y3-422162-0225	BAGUE FIL.ENTRE PAS M22x1,5 6g	555178	151,60	P41
Y3-422162-0245	BAGUE FIL.ENTRE PAS M24x1,5 6g	555180	161,90	P41
<b>TAMPON FILETE DOUBLE</b>				
S3-302180-3123	TAMPON FIL. DBLE G1/8 TOL A	555039	92,78	P42
S3-302180-3127	TAMPON FIL. DBLE G1/4 TOL A	555038	100,43	P42
S3-302180-3129	TAMPON FIL. DBLE G3/8 Tol.A	555076	112,99	P42
S3-302180-3131	TAMPON FIL. DBLE G1/2 Tol.A	555077	126,89	P42
S3-302180-3135	TAMPON FIL. DBLE G3/4 Tol.A	555078	142,21	P42
S3-302180-3139	TAMPON FIL. DBLE G1 Tol.A	555079	159,46	P42
<b>BAGUE FILETEE ENTRE</b>				
Y3-412180-3129	BAGUE FIL.ENTRE G3/8 A	555137	135,60	P42
Y3-412180-3131	BAGUE FIL.ENTRE G1/2 A	555138	161,90	P42
Y3-412180-3133	BAGUE FIL.ENTRE G5/8 A	555139	194,46	P42
Y3-412180-3135	BAGUE FIL.ENTRE G3/4 A	555140	188,79	P42
Y3-412180-3139	BAGUE FIL.ENTRE G1 A	555141	234,13	P42

Réf. FANAR	Designation	Code TECHMO	PRIX €	Pages
<b>BAGUE FILETEE ENTRE PAS</b>				
Y3-422180-3129	BAGUE FIL.ENTRE PAS G3/8 Tol.A	555193	135,60	P42
Y3-422180-3131	BAGUE FIL.ENTRE PAS G1/2 Tol.A	555194	161,90	P42
Y3-422180-3133	BAGUE FIL.ENTRE PAS G5/8 Tol.A	555195	194,46	P42
Y3-422180-3135	BAGUE FIL.ENTRE PAS G3/4 Tol.A	555196	188,79	P42
Y3-422180-3139	BAGUE FIL.ENTRE PAS G1 Tol.A	555197	234,13	P42
<b>TAMPON FILETE DOUBLE</b>				
S3-332100-4629	TAMPON FIL. DBLE 3/8-18 NPT	555080	112,99	P43
S3-332100-4631	TAMPON FIL. DBLE 1/2-14 NPT	555081	126,89	P43
S3-332100-4635	TAMPON FIL. DBLE 3/4-14 NPT	555082	142,21	P43
S3-332100-4639	TAMPON FIL. DBLE 1-11.1/2 NPT	555083	159,46	P43
<b>PORTE-FILIERE</b>				
V0-103000-2005	PORTE-FILIERE CAGE 20X5 M3-M4	428039	8,30	P44
V0-103000-2509	PORTE-FILIERE CAGE 25 M7-M9	428035	9,68	P44
V0-103000-3011	PORTE-FILIERE CAGE 30X11 M10-M11	428040	10,58	P44
V0-103000-3814	PORTE-FILIERE CAGE 38 M12-M14	428036	13,55	P44
V0-103000-4518	PORTE-FILIERE CAGE 45X18 M16-M20	428041	17,58	P44
V0-103000-5522	PORTE-FILIERE CAGE 55 M22-M26	428037	28,20	P44
<b>TOURNE A GAUCHE</b>				
V0-303000-0204	TOURNE A GAUCHE N°0 CARRE 2-4,5	428030	9,83	P44
v0-303000-0309	TOURNE A GAUCHE N°2 CARRE 3,55-9	428031	17,10	P44
v0-303015-0207	TOURNE A GAUCHE N°1,5	428016	16,50	P44
v0-303040-0516	TOURNE A GAUCHE N°4 carré 5.6-16	428019	31,45	P44
<b>BRAS TARAUDAGE</b>				
P0-130000-10312	BRAS TARAUDAGE P0-130000-10312	045745	2 497,50	P45
P0-130000-10316	BRAS TARAUDAGE P0-130000-10316	045746	3 750,00	P45
P0-130000-10322	BRAS TARAUDAGE P0-130000-10322	045747	5 250,00	P45
<b>RENOVI D'ANGLE</b>				
P0-133000-00890	RENOVI D'ANGLE PR BRAS TARAUDAGE	045742	316,00	P46
P0-133000-01290	RENOVI D'ANGLE PR BRAS TARAUDAGE	045748	316,00	P46
P0-133000-01690	RENOVI D'ANGLE PR BRAS TARAUDAGE	045743	428,00	P46
P0-133000-02290	RENOVI D'ANGLE PR BRAS TARAUDAGE	045744	428,00	P46
P0-133000-02790	RENOVI D'ANGLE PR BRAS TARAUDAGE	045749	428,00	P46

Grupy zastosowania narzędzi wysokowydajnych i ich przeznaczenie Material groups and the range of application Materialgruppen und Einsatzgebiete	
800	Do stali konstrukcyjnych węglowych, automatowych 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 ulepszanych 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 ulepszanych 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 Alulegierungen Si ≤ 10%
AL	Do miękkiego aluminium For soft aluminium Für weiche Aluminium
Ms	Do miedzi 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 produktive 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 <sub>p</sub> ≥ 10% Forming taps for plastic materials with ductility A <sub>p</sub> ≥ 10% Gewindeformer für plastische Materiale mit Zähheit A <sub>p</sub> ≥ 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 Geegnet
	Obróbka ręczna Manual processing Handbearbeitung

Podane w tabeli prędkości skrawania mają charakter orientacyjny. Rzeczywiste prędkości należy dobrać doświadczalnie.

The speed values are orientational. The speed should be adjust experimentally.

Die angegebenen Schnittgeschwindigkeiten sind Richtwerte. Schnittgeschwindigkeit bei Proben anzupassen.

### Geometria wiertel / Drills geometry / Geometrie

$\lambda$	Kąt spirali rowków Helix angle Drallwinkel	
$\delta$	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	
<b>P</b>						
< 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
<b>M</b>						
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
<b>K</b>						
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
<b>N</b>						
< 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
<b>S</b>						
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
<b>H</b>						
-	-	< 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 INFORMATION

## TECHNISCHE INFORMATIONEN

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

	Material obrabiany	Range of application - material	Einsatzgebiete-Material
Grupa materiałowa / Material group / Werkstoffgruppe	<b>P Stal</b>	<b>Steel</b>	<b>Stahl</b>
	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
	<b>M Stal nierdzewna</b>	<b>Stainless steel</b>	<b>Nichtrostende Stahl</b>
	2.1	Ferytyczna, martenzytyczna Ferritic, martensitic	Ferritisch, martensitisch
	2.2	Austenityczna Austenitic	Austenitisch
	2.3	Austenityczno-ferytyczne (Duplex) Austenitic-ferritic (Duplex)	Austenitisch-ferritisch (Duplex)
	<b>K Żeliwo</b>	<b>Cast materials</b>	<b>Gusswerkstoffe</b>
	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
	<b>N Materiały nieżelazne</b>	<b>Non ferrous materials</b>	<b>Nichteisenwerkstoffe</b>
	<b>Stopy aluminium</b>	<b>Aluminium alloys</b>	<b>Aluminium-Legierungen</b>
	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%
	<b>Miedź i stopy miedzi</b>	<b>Copper alloys</b>	<b>Kupfer-Legierungen</b>
	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)
	<b>Stopy magnezu</b>	<b>Magnesium alloys</b>	<b>Magnesium-Legierungen</b>
4.10	Kute Magnesium wrought alloys	Magnesium-Knetlegierungen	
<b>Materiały syntetyczne</b>	<b>Synthetics</b>	<b>Kunststoffe</b>	
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	
<b>S Materiały specjalne</b>	<b>Special materials</b>	<b>Spezialwerkstoffe</b>	
<b>Tytan</b>	<b>Titanium alloys</b>	<b>Titan-Legierungen</b>	
5.1	Tytan niestopowy Pure titanium	Reintitan	
5.2	Stopy tytanu Titanium alloys	Titan-Legierungen	
<b>Superstopy żaroodporne</b>	<b>Heat resistant super alloys</b>	<b>Warmfesten Superlegierungen</b>	
5.3	Nikiel niskostopowy Pure nickel	Reinnickel	
5.4	Stopy niklu Nickel alloys	Nickellegierungen	
<b>H Materiały twarde</b>	<b>Hard materials</b>	<b>Harte Werkstoffe</b>	
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

	Material obrabiany	Material	Werkstoff	PN	DIN	Nr	Rm MPa	HB	HRC
<b>P</b>	<b>Stal</b>	<b>Steel</b>	<b>Stahlwerkstoffe</b>						
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 St0S St3S	9 S 20 9 SMn 28 S13-1 S137-3 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, staliwo	Constructional and carbon steel, low-alloy steel, cast steel	Baustähle, Niedriglegierte Stähle, Stahlguss	A35 18G2A  45 St5 L40GM	35S20 S152-3 9SMnPb28 C 45 St5-2 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 ciepłego, 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 22+31 26+32
1.5	Stal ulepszana cieplnie do 38 HRC	Tempered steel up to 38 HRC	Gehärtete Stähle Gehätete bis 38 HRC	30H2NZM 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 32+39 26+38
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
<b>M</b>	<b>Stal nierdzewna</b>	<b>Stainless steel</b>	<b>Nichtrostende Stahl</b>						
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	- - -
<b>K</b>	<b>Żeliwo</b>	<b>Cast materials</b>	<b>Gusswerkstoffe</b>						
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	P55-04 W35-04	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	- - - -
<b>N</b>	<b>Materiały nieżelazne</b>	<b>Non ferrous materials</b>	<b>Nichteisenwerkstoffe</b>						
	<b>Stopy aluminium</b>	<b>Aluminium alloys</b>	<b>Aluminium-Legierungen</b>						
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	≥58 ≥75 ≥58 ≥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 GD-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	- - - -
	<b>Miedź i stopy miedzi</b>	<b>Copper alloys</b>	<b>Kupfer-Legierungen</b>						
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		- - -
	<b>Stopy magnezu</b>	<b>Magnesium alloys</b>	<b>Magnesium-Legierungen</b>						
4.10	Kute	Magnesium wrought alloys	Magnesium-Knetlegierungen		MgAl6Zn MgMn2 MgAl8Zn	3.5612 3.5200 3.5812			- - -
	<b>Syntetyczne</b>	<b>Synthetics</b>	<b>Kunststoffe</b>						
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				- - -
<b>S</b>	<b>Materiały specjalne</b>	<b>Special materials</b>	<b>Spezialwerkstoffe</b>						
	<b>Tytan</b>	<b>Titanium alloys</b>	<b>Titan-Legierungen</b>						
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 6 V 4 Ti Al 3 V 2, 5 Ti 5 Al 2, 5 Sn	3.7165 3.712	890 790	260 235	- -
	<b>Superstopy żaroodporne</b>	<b>Heat resistant super alloys</b>	<b>Warmfesten Superlegierungen</b>						
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 -
<b>H</b>	<b>Materiały twarde</b>	<b>Hard materials</b>	<b>Harte Werkstoffe</b>						
6.1	Stale o dużej wytrzymałości, stale hartowane, twarde odlewy	High strength steels, hardened steels, hard castings	Hochfeste Stähle, gehätete Stähle, Hartguss	Weldox1100					< 50
6.2				Hardox 500					< 55
6.3				ArmoX 600T					< 60
6.4				HSSE					< 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 DIN 371 / DIN 374 DIN 376												Norma Norm		
15 / 17	15 / 17	19 / 22	19 / 22	19 / 22	19 / 22	25 / 29	25 / 29	25 / 29	25 / 29	25 / 29	25 / 29	25 / 29	25 / 29	M
80 / 92	80 / 92	90 / 102	90 / 102	90 / 102	90 / 102	81 / 93	81 / 93	81 / 93	81 / 93	81 / 93	81 / 93	81 / 93	81 / 93	M
75 / 77	75 / 77	82 / 86	82 / 86	82 / 86	82 / 86	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	81 / 85	M
81 / 85	81 / 85	82 / 86	82 / 86	82 / 86	82 / 86	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	M
101 / 102	101 / 102	102 / 104	102 / 104	102 / 104	102 / 104	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	M
101 / 102	101 / 102	102 / 104	102 / 104	102 / 104	102 / 104	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	101 / 102	M
105														M
800	800	800	800	800	800	800	800	800	800	800	800	800	800	M
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	M
TN	OX	TN	OX	TN	OX	TN	OX	TN	OX	TN	OX	TN	OX	M
C / 2-3P	C / 2-3P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	M
1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	1-12	M
EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	EOJP	M

Material obrabiany	Range of application - material	Einsatzgebiete-Material
<b>P</b> Stal	Steel	Steel
<b>P1</b> Stal magnetyczna, stal korozyjna miękka	Magnetic steel, construction soft steel	Magnesiumschmelze
<b>P2</b> Stal austenityczna, stal korozyjna, stal do narzędzi	Austenitic steel, construction and carburizing steel	Aluminiumschmelze, Basalt
<b>P3</b> Stal korozyjna wytrzymała i niekorozyjna, stal	Construction and carbon steel, low-alloy steel, cast steel	Basalt, Metallurgische Stähle, Stahlguss
<b>P4</b> Stal do olejowego cięcia, stal stopowa, stal narzędziowa	Alloy steel, oil-hardening tool steel	Legierte Stähle, Kohlenstoffstähle
<b>P5</b> Stal węglowa cieplej do 38 HRC	Tempered steel up to 38 HRC	Gefestigte Stähle, Gussstähle bis 38 HRC
<b>P6</b> Stal wysoce hartowana do 44 HRC	High-alloy steel hardened up to 44 HRC	Hochlegierte Stähle, Gussstähle bis 44 HRC
<b>M</b> Stal nierdzewna	Stainless steel	Nickelstahlwerkzeuge
<b>M1</b> Ferrityczna, austenityczna	Ferritic, austenitic	Edelmetalle, Hartmetalle
<b>M2</b> Austenityczna	Austenitic	Austenit
<b>M3</b> Austenityczna/martensytna (Duplex)	Austenitic/martensitic (Duplex)	Austenit/martensit (Duplex)
<b>K</b> Żelazo	Cast iron	Stahlschmelze
<b>K1</b> Żelazo szare	Grey cast iron	Grauwissen
<b>K2</b> Żelazo ciągliwe	Malleable cast iron	Gussstahl, Temperguss
<b>K3</b> Żelazo szlachetne	Spheruloidal cast iron	Gussstahl
<b>N</b> Materiały nietopliwe	Heat treating materials	Nickelwerkzeuge
<b>N1</b> Drobny aluminium	Aluminium alloy	Aluminium-Lagerungen
<b>N2</b> Aluminium - magnezowa	Aluminum magnesium	Aluminium
<b>N3</b> Drobny aluminium 1% Si + 7%	Aluminum alloy 1% Si + 7%	Al-Lagerungen 1% Si + 7%
<b>N4</b> Drobny aluminium 5% Si + 7%	Aluminum alloy 5% Si + 7%	Al-Lagerungen 5% Si + 7%
<b>N5</b> Drobny aluminium 12% Si	Aluminum alloy 12% Si	Al-Lagerungen 12% Si
<b>N6</b> Miedź i stopy miedzi	Copper alloy	Kupfer-Lagerungen
<b>N7</b> Miedź miedzianowa ciekocyna	Pure copper / low-alloy copper	Edelmetalle, Hartmetalle, Kupfer
<b>N8</b> Miedź (dług wst)	Copper-zinc alloy (brass, long-chipping)	Kupfer-Zinn-Lagerungen (langspanend)
<b>N9</b> Miedź (krótko wst)	Copper-zinc alloy (brass, short-chipping)	Kupfer-Zinn-Lagerungen (kurzspanend)
<b>N10</b> Drobny aluminium (dług wst)	Copper-aluminum alloy (long-chipping)	Kupfer-Aluminium-Lagerungen (langspanend)
<b>N11</b> Drobny aluminium (krótko wst)	Copper-aluminum alloy (short-chipping)	Kupfer-Aluminium-Lagerungen (kurzspanend)
<b>N12</b> Drobny cyny (dług wst)	Copper-tin alloy (long-chipping)	Kupfer-Zinn-Lagerungen (langspanend)
<b>N13</b> Drobny cyny (krótko wst)	Copper-tin alloy (short-chipping)	Kupfer-Zinn-Lagerungen (kurzspanend)
<b>N14</b> Drobny magnez	Magnesium alloy	Magnesium-Lagerungen
<b>N15</b> Cyna	Magnesium-zinc alloy	Magnesium-Zinn-Lagerungen
<b>N16</b> Materiały sprężyste	Elastomeric	Kunststoffe
<b>N17</b> Drobny tytan	Titanium alloy	Titanium-Lagerungen
<b>N18</b> Termoplasty (dług wst)	Thermoplastic (long-chipping)	Thermoplaste (langspanend)
<b>N19</b> Termoplasty (krótko wst)	Thermoplastic (short-chipping)	Thermoplaste (kurzspanend)
<b>N20</b> Termoplasty wzmocnione włóknem	Fiber-reinforced thermoplastic	Faserverstärkte Kunststoffe
<b>S</b> Materiały specjalne	Special materials	Spezialwerkstoffe
<b>T</b> Tytan	Titanium alloy	Titan-Lagerungen
<b>T1</b> Tytan niestopowy	Pure titanium	Titan
<b>T2</b> Stop tytanu	Titanium alloy	Titan-Lagerungen
<b>T3</b> Superstopowy stop tytanu	Heat resistant super alloy	Wärmebeständige Superlegierungen
<b>T4</b> Miedź nietopliwa	Pure nickel	Nickel
<b>T5</b> Stopy niklu	Nickel alloy	Nickel-Lagerungen
<b>T6</b> Materiały twardne	Hard materials	Werkzeuge
<b>H1</b>		
<b>H2</b>	Stal o dużej wytrzymałości, stal hartowana, stalci ciężki	Hochfeste Stähle, gehärtete Stähle, Hartguss
<b>H3</b>		
<b>H4</b>		

### Gwint metryczny zwykły ISO DIN-13



Zastosowanie / Application / Einsatzgebiete	INOX	INOX	INOX	INOX	FAN	FAN	FAN
Material obrabiany / Material / Werkstoff	P1.3	P1.3, M2.2	P1.3, M2.2, M2.2, M2.2, M2.2, M2.2	P1.3, M2.2, M2.2, M2.2, M2.2, M2.2	P1.3, M2.2, M2.2, M2.2, M2.2, M2.2	P1.3, M2.2, M2.2, M2.2, M2.2, M2.2	P1.3, M2.2, M2.2, M2.2, M2.2, M2.2
Rodzaj materiału / Quality of material / Qualität	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM
Typ otworu / Hole type / Lochform	1-12	1-12	1-12	1-12	1-12	1-12	1-12
Wykonanie / Execution / Ausführung	B	B	B	B	B	B	B
Rodzaj powłoki / Coating / Beschichtung		OX	TN	HL	TiCN	TiCN	TiCN
Nakrty / Chamfer / Anschnitt	B / 4-SP	B / 4-SP	B / 4-SP	B / 4-SP	B / 4-SP	B / 4-SP	B / 4-SP
Tolerancja / Tolerance / Toleranz	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)

### DIN-371

M	Ød1	P	l1	l2	l3	Ød2	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	2,8	2,1	1,6		0020
M 2,5	0,45	50	9	2,8	2,1	2,05		0025
M 2,6	0,45	50	9	2,8	2,1	2,1		0026
M 3	0,5	55	10	2,8	3,5	2,5		0030
M 3,5	0,6	55	12	2,0	4	3		0035
M 4	0,7	63	12	2,1	4,5	3,3		0040
M 4,5	0,75	70	14	2,5	6	4,9		0045
M 5	0,8	70	14	2,5	6	4,9		0050
M 6	1	80	18	3,0	6	4,9		0060
M 7	1	80	18	3,0	7	5,5		0070
M 8	1,25	90	20	3,5	8	6,2		0080
M 9	1,25	90	20	3,5	9	7		0090
M 10	1,5	100	20	3,9	10	8		0100

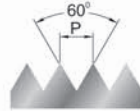
Przykład / Example / Beispiel:  
**C2-116801-0050**  
**DIN-371 B M5 ISO2(6H) HSSE INOX OX**

ISO metric thread DIN-13										<b>800X</b>							
										C-R40-TN	B-TN						
Material groups																	
Hole type																	
Type of material										HSSE							
Coating										TN							
Chamfer										C / 2-3P		B / 4-5P					
M	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	l <sub>3</sub>	• d <sub>2</sub>	a		INDEX	DIN-371							
• d <sub>1</sub>										C2-513X01	C2-113X01						
Tolerance										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	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	l <sub>3</sub>	• d <sub>2</sub>	a		INDEX	DIN-371							
• d <sub>1</sub>										C2-513X01	C2-113X01						
Tolerance										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	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	l <sub>3</sub>	• d <sub>2</sub>	a		INDEX	DIN-376							
• d <sub>1</sub>										D2-513X01	D2-113X01						
Tolerance										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	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	l <sub>3</sub>	• d <sub>2</sub>	a		INDEX	DIN-374							
• d <sub>1</sub>										D2-513X01	D2-113X01						
Tolerance										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	●	●						

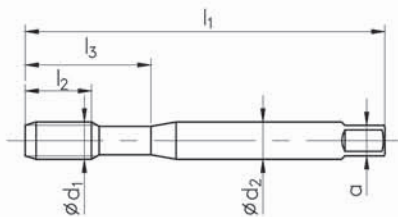
## Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13



HSSE

HSSE  
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-N4.8P1.1-1.4, M2.1-2.3,  
K3.2-3.3, N4.2P1.3-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	$l_1$	$l_2$	$l_3$	$\varnothing d_2$	a		INDEX	C2-111801	C2-116801	C2-113801	C2-118801	C4-111001	C4-115001	C4-115003
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

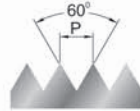
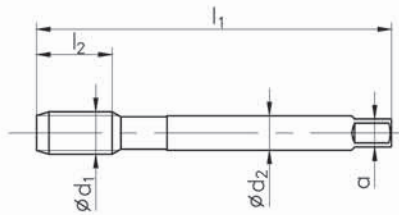
● Dostępne z magazynu, cena w cenniku

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**


<b>Zastosowanie / Application / Einsatzgebiete</b>	INOX	INOX	INOX	INOX	FAN	FAN	FAN
<b>Materiał obrabiany / Material / Werkstoff</b>	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		
<b>Rodzaj materiału / Quality of material / Qualität</b>	HSSE	HSSE	HSSE	HSSE	PM/HSSE	PM/HSSE	PM/HSSE
<b>Typ otworu / Hole type / Lochform</b>							
<b>Wykonanie / Execution / Ausführung</b>	B	B	B	B	B	B	B
<b>Rodzaj powłoki / Coating / Beschichtung</b>		OX	TiN	HL		TiCN	TiCN
<b>Nakrój / Chamfer / Anschnitt</b>	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P
<b>Tolerancja / Tolerance / Toleranz</b>	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)

M Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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

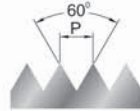
○ Do szybkiej dostawy, cena na zapytanie

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

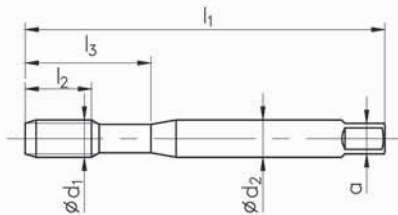
## Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13



HSSE

HSSE  
PM

## 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



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 <sub>1</sub>	l <sub>2</sub> R15	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	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

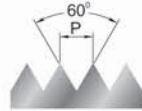
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

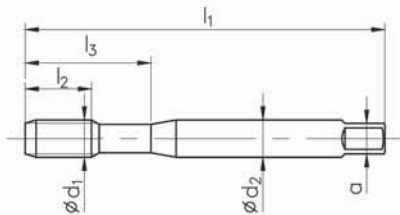
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**Gwint metryczny zwykły ISO DIN-13**

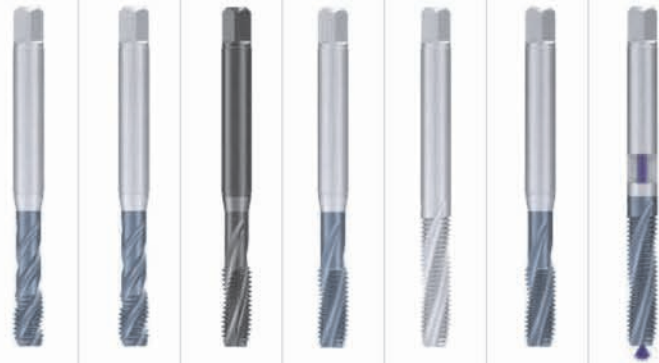
ISO Metric coarse thread DIN-13  
Metrisches ISO-Regelgewinde DIN-13



HSSE  
PM



**DIN-371**



<b>Zastosowanie / Application / Einsatzgebiete</b>	FAN	FAN	Ti	Ti	Ni	1400	1400
<b>Materiał obrabiany / Material / Werkstoff</b>	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	
<b>Rodzaj materiału / Quality of material / Qualität</b>	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM
<b>Typ otworu / Hole type / Lochform</b>							
<b>Wykonanie / Execution / Ausführung</b>	R40	R40	R15	R15	R15	R15	R15 IK
<b>Rodzaj powłoki / Coating / Beschichtung</b>	TiCN	TiCN	OX	TiCN		TiCN	TiCN
<b>Nakrój / Chamfer / Anschnitt</b>	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
<b>Tolerancja / Tolerance / Toleranz</b>	ISO2 (6H)	ISO3 (6G)	6HX	6HX	6HX	6HX	6HX

M Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub> R15	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	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	●	●	○	○	○	●	●

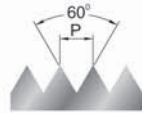


**\* Dla gwintowników Ti, Ni zaleca się zwiększenie średnicy otworu gwintowanego o 0,1mm**  
For Ti, Ni taps is recommended to increase the diameter of the threaded hole by 0.1 mm  
Für Gewindebohrer Ti, Ni ist empfohlen, den Kernlochdurchmesser um 0,1 mm zu erhöhen

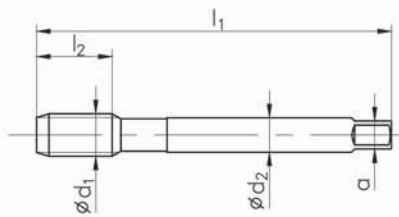
## Gwint metryczny zwykły ISO DIN-13

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13



HSSE

HSSE  
PM

## DIN-376

Z lamaczem wibrów / With the chip breaker / Mit Spanbrecher  
~1,5 X l<sub>1</sub>

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-K3.3P1.4-P1.5,K3.2  
-K3.3,N4.2-N4.3P1.3-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



Wykonanie / Execution / Ausführung

R40

R40

R40

R40

R15

R15

R15 IK LF

Rodzaj powłoki / Coating / Beschichtung

OX

OX

TiN

HL

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 <sub>1</sub>	l <sub>1</sub> LF	l <sub>2</sub> R15	l <sub>2</sub>	Ød <sub>2</sub>	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

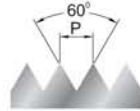
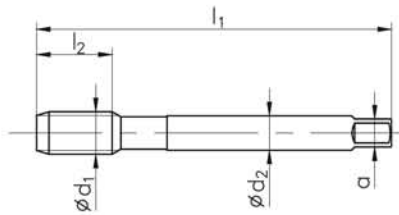
● Dostępne z magazynu, cena w cenniku

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**


<b>Zastosowanie / Application / Einsatzgebiete</b>	FAN	FAN	FAN	Ti	Ti	Ni	1400
<b>Materiał obrabiany / Material / Werkstoff</b>	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
<b>Rodzaj materiału / Quality of material / Qualität</b>	PM/HSSE	PM/HSSE	PM/HSSE	HSSE-PM	HSSE-PM	HSSE-PM	PM/HSSE
<b>Typ otworu / Hole type / Lochform</b>							
<b>Wykonanie / Execution / Ausführung</b>	R40	R40	R40	R15	R15	R15	R15
<b>Rodzaj powłoki / Coating / Beschichtung</b>		TiCN	TiCN	OX	TiCN		TiCN
<b>Nakrój / Chamfer / Anschnitt</b>	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
<b>Tolerancja / Tolerance / Toleranz</b>	ISO2 (6H)	ISO2 (6H)	ISO3 (6G)	6HX	6HX	6HX	6HX

M	Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub> R15	l <sub>2</sub>	Ød <sub>2</sub>	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

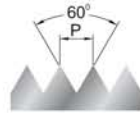
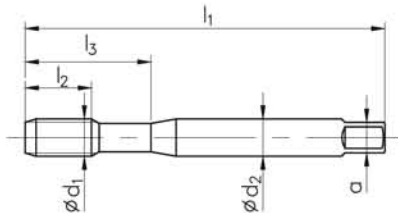
○ Do szybkiej dostawy, cena na zapytanie

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)**


									WGA	WGN	WGN	WGN	WGN	WGN	WGN	
<b>Zastosowanie / Application / Einsatzgebiete</b>																
<b>Materiał obrabiany / Material / Werkstoff</b>									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	
<b>Rodzaj materiału / Quality of material / Qualität</b>									HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	
<b>Typ otworu / Hole type / Lochform</b>																
<b>Wykonanie / Execution / Ausführung</b>									SR			SR	SR	SR	SR	
<b>Rodzaj powłoki / Coating / Beschichtung</b>									TiN	TiN	TiN	TiN	TiN	TiCN	TiCN	
<b>Nakrój / Chamfer / Anschnitt</b>									C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	E / 1,5-2P	
<b>Tolerancja / Tolerance / Toleranz</b>									6HX	6HX	6HX	6HX	6GX	6HX	6HX	
M	Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	a		INDEX	C4-923205	C4-903005	C4-903905	C4-923005	C4-923006	C4-925005	C4-945005
M 2	0,4	0,4	45	8	-	2,8	2,1	1,83	0020				●			
M 2,2	0,45	0,45	45	9	-	2,8	2,1	2	0022				○			
M 2,5	0,45	0,45	50	9	-	2,8	2,1	2,3	0025				●			
M 3	0,5	0,5	56	10	18	3,5	2,7	2,8	0030		●		●	●	●	○
M 3,5	0,6	0,6	56	11	20	4	3	3,25	0035		○		○			
M 4	0,7	0,7	63	7	21	4,5	3,4	3,7	0040	●	●	○	●	●	●	●
M 5	0,8	0,8	70	8	25	6	4,9	4,65	0050	●	●	○	●	●	●	●
M 6	1	1	80	10	30	6	4,9	5,6	0060	●	●	○	●	●	●	●
M 7	1	1	80	10	30	7	5,5	6,6	0070	○	○	○	○			
M 8	1,25	1,25	90	13	35	8	6,2	7,45	0080	●	●	○	●	●	●	●
M 9	1,25	1,25	90	13	35	9	7	8,45	0090	○	○	○	○			
M 10	1,5	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

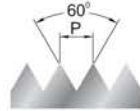
● Dostępne z magazynu, cena w cenniku

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

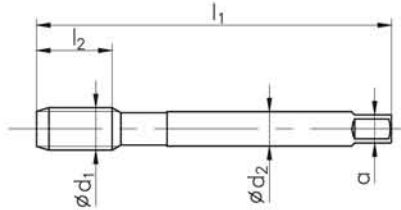
○ Do szybkiej dostawy, cena na zapytanie

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

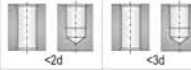

**DIN-376 (~DIN-2174)**

**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 <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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

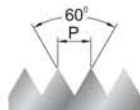
○ Do szybkiej dostawy, cena na zapytanie

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

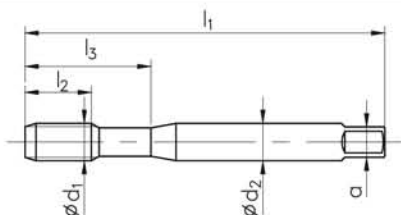
## Gwint metryczny zwykły ISO DIN-13

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

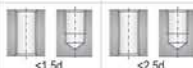
K3.1, N4.3  
N4.6, N4.10  
N4.13

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 <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	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 <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	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

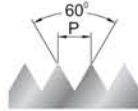
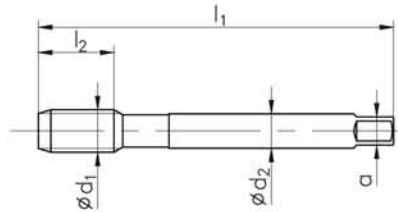
● Dostępne z magazynu, cena w cenniku

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**

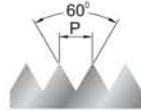
 ISO Metric coarse thread DIN-13  
 Metrisches ISO-Regelgewinde DIN-13

**VHM**

**~DIN-376**


<b>Zastosowanie / Application / Einsatzgebiete</b>									<b>HRC60</b>	<b>GAL</b>								
<b>Materiał obrabiany / Material / Werkstoff</b>									H6.1-H6.2	K3.1, N4.3 N4.6, N4.10 N4.13								
<b>Rodzaj materiału / Quality of material / Qualität</b>									<b>VHM</b>	<b>VHM</b>								
<b>Typ otworu / Hole type / Lochform</b>																		
<b>Wykonanie / Execution / Ausführung</b>									IK	R15 IK								
<b>Rodzaj powłoki / Coating / Beschichtung</b>									<b>TiCN</b>	<b>TiCN</b>								
<b>Nakrój / Chamfer / Anschnitt</b>									D / 4-5P	C / 2-3P								
<b>Tolerancja / Tolerance / Toleranz</b>									6HX	6HX								
M	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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								

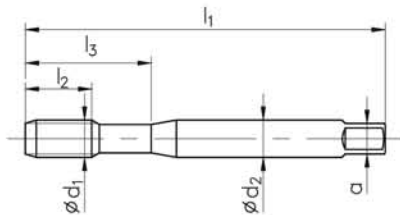
**Przykład zamawiania / Example of order / Beispiel einer Bestellung:**  
 D9-928605-0120  
 DIN-376 C M12 6HX VHM WGN IKR HL

● 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



										800	800	800	INOX	INOX	INOX	INOX
<b>Zastosowanie / Application / Einsatzgebiete</b>										800	800	800	INOX	INOX	INOX	INOX
<b>Materiał obrabiany / Material / Werkstoff</b>										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
<b>Rodzaj materiału / Quality of material / Qualität</b>										HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
<b>Typ otworu / Hole type / Lochform</b>																
<b>Wykonanie / Execution / Ausführung</b>										B	B	B	B	B	B	B
<b>Rodzaj powłoki / Coating / Beschichtung</b>											OX	TiN		OX	TiN	HL
<b>Nakrój / Chamfer / Anschnitt</b>										B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P
<b>Tolerancja / Tolerance / Toleranz</b>										ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)
MF $\varnothing d_1$	P	$l_1$	$l_2$	$l_3$	$\varnothing d_2$	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

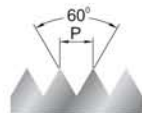
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

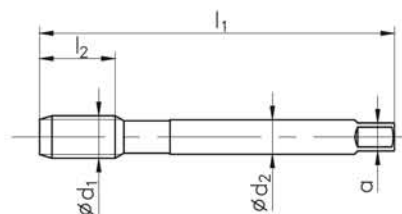
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**Gwint metryczny drobnozwojny ISO DIN-13**

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



HSSE



**DIN-374**



<b>Zastosowanie / Application / Einsatzgebiete</b>	800	800	800	INOX	INOX	INOX	INOX
<b>Materiał obrabiany / Material / Werkstoff</b>	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
<b>Rodzaj materiału / Quality of material / Qualität</b>	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
<b>Typ otworu / Hole type / Lochform</b>							
<b>Wykonanie / Execution / Ausführung</b>	B	B	B	B	B	B	B
<b>Rodzaj powłoki / Coating / Beschichtung</b>		OX	TiN		OX	TiN	HL
<b>Nakrój / Chamfer / Anschnitt</b>	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P	B / 4-5P
<b>Tolerancja / Tolerance / Toleranz</b>	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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

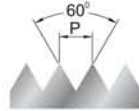
● Dostępne z magazynu, cena w cenniku

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

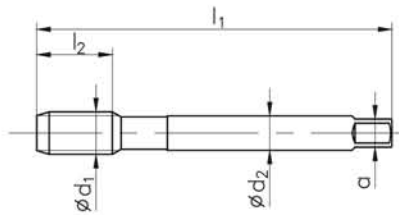
○ Do szybkiej dostawy, cena na zapytanie

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 <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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:

D2-1131011-0325  
DIN-374 C M30x1,5 6HX HSSE-PM 800 TiN

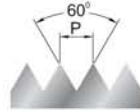
● Dostępne z magazynu, cena w cenniku

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

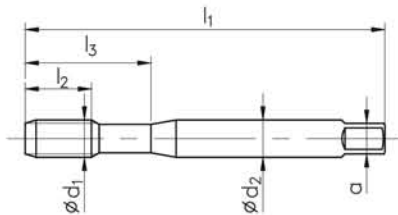
○ Do szybkiej dostawy, cena na zapytanie

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**


1

										800	800	800	INOX	INOX	INOX	INOX
<b>Zastosowanie / Application / Einsatzgebiete</b>										800	800	800	INOX	INOX	INOX	INOX
<b>Materiał obrabiany / Material / Werkstoff</b>										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
<b>Rodzaj materiału / Quality of material / Qualität</b>										HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
<b>Typ otworu / Hole type / Lochform</b>																
<b>Wykonanie / Execution / Ausführung</b>										R40	R40	R40	R40	R40	R40	R40
<b>Rodzaj powłoki / Coating / Beschichtung</b>											OX	TIN		OX	TIN	HL
<b>Nakrój / Chamfer / Anschnitt</b>										C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
<b>Tolerancja / Tolerance / Toleranz</b>										ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)
MF Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	a		INDEX								
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

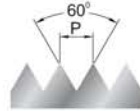
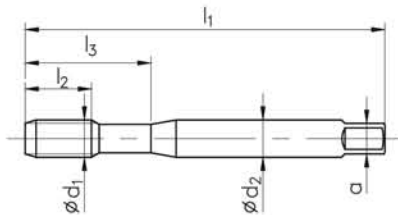
● Dostępne z magazynu, cena w cenniku

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-13HSSE  
PM

## DIN-371



Zastosowanie / Application / Einsatzgebiete

FAN

FAN

1400

GAL

Materiał obrabiany / Material / Werkstoff

P1.1-1.4, M2.1-2.3  
K3.2-3.3, N4.2P1.4-P1.5, M2.1  
M2.3, K3.2-K3.3,  
N4.2P1.5-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



&lt;2,5d

&lt;2,5d

&lt;1,5d

&lt;1,5d

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 <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub> R15	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	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	○	○		
M 5 x 0,5	0,5	70	12	8	25	6	4,9	4,5	0051	○	○		
M 6 x 0,75	0,75	80	14	10	30	6	4,9	5,2	0062	○	○		
M 8 x 0,75	0,75	80	18	10	30	8	6,2	7,2	0082	○	○		○
M 8 x 1	1	90	20	13	35	8	6,2	7	0083	●	●	○	○
M 10 x 0,75	0,75	90	20	13	35	10	8	9,2	0102	○	○		
M 10 x 1	1	90	20	13	35	10	8	9	0103	●	●	○	○
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

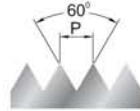
● Dostępne z magazynu, cena w cenniku

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

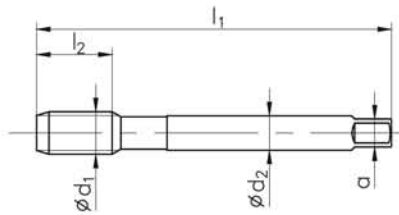
○ Do szybkiej dostawy, cena na zapytanie

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**


<b>Zastosowanie / Application / Einsatzgebiete</b>	800	800	800	INOX	INOX	INOX	INOX
<b>Materiał obrabiany / Material / Werkstoff</b>	P1.3	P1.3	P1.1-P1.4 N4.5, N4.7, N4.8		M2.2	M2.1-M2.2	M2.1-M2.2
<b>Rodzaj materiału / Quality of matrial / Qualität</b>	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
<b>Typ otworu / Hole type / Lochform</b>							
	<2.5d	<2.5d	<2.5d	<2.5d	<2.5d	<2.5d	<2.5d
<b>Wykonanie / Execution / Ausführung</b>	R40	R40	R40	R40	R40	R40	R40
<b>Rodzaj powłoki / Coating / Beschichtung</b>		OX	TIN		OX	TIN	HL
<b>Nakrój / Chamfer / Anschnitt</b>	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P	C / 2-3P
<b>Tolerancja / Tolerance / Toleranz</b>	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)	ISO2 (6H)

MF Ød <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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

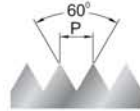
○ Do szybkiej dostawy, cena na zapytanie

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

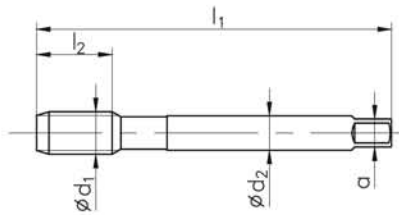
## Gwint metryczny drobnozwojny ISO DIN-13

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 <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	Ød <sub>2</sub>	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

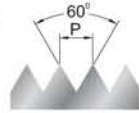
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

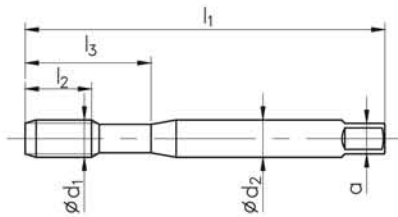
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**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	
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

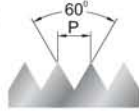
UNC	Ød <sub>1</sub>	1"/P	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	l <sub>3</sub>	Ød <sub>2</sub>	a		INDEX	C2-121101	C2-111101	C2-511101	C2-111801	C2-511801
No 4-40	2,844	40	0,635	56	10	5	18	3,5	2,7	2,35	4104					
No 5-40	3,175	40	0,635	56	10	7	18	3,5	2,7	2,65	4105	●	●	●	●	●
No 6-32	3,505	32	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

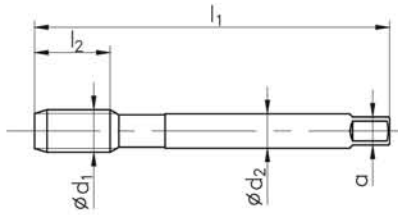
● Dostępne z magazynu, cena w cenniku  
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste  
○ Do szybkiej dostawy, cena na zapytanie  
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**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 <sub>1</sub>	1"/P	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	Ød <sub>2</sub>	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

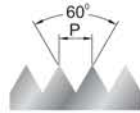
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

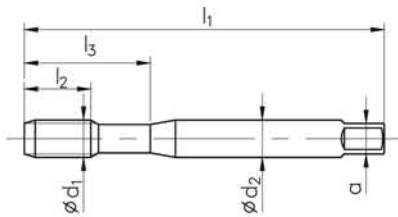
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**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
	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 <sub>1</sub>	1"/P	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	l <sub>3</sub>	Ød <sub>2</sub>	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

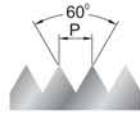
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ Do szybkiej dostawy, cena na zapytanie

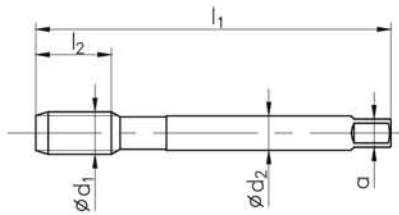
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**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 <sub>1</sub>	1"/P	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	Ød <sub>2</sub>	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

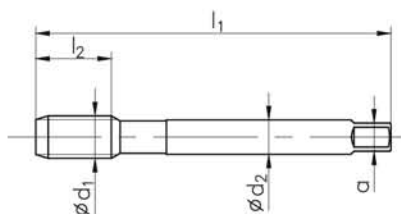
For quick delivery, price on request / Für die schnelle Lieferung, Preis auf Anfrage

**Gwint rurowy walcowy G, DIN-ISO 228**

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



HSSE



**DIN-5156**



<b>Zastosowanie / Application / Einsatzgebiete</b>	800	800	800	800	800	800
<b>Materiał obrabiany / Material / Werkstoff</b>	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
<b>Rodzaj materiału / Quality of material / Qualität</b>	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
<b>Typ otworu / Hole type / Lochform</b>						
<b>Wykonanie / Execution / Ausführung</b>		B	B	R40	R40	R40
<b>Rodzaj powłoki / Coating / Beschichtung</b>			OX		OX	TIN
<b>Nakrój / Chamfer / Anschnitt</b>	C / 2-3P	B / 4-5P	B / 4-5P	C / 2-3P	C / 2-3P	C / 2-3P
<b>Tolerancja / Tolerance / Toleranz</b>						

G	Ød <sub>1</sub>	1"/P	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	Ød <sub>2</sub>	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	24	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

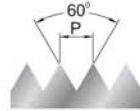
○ Do szybkiej dostawy, cena na zapytanie

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

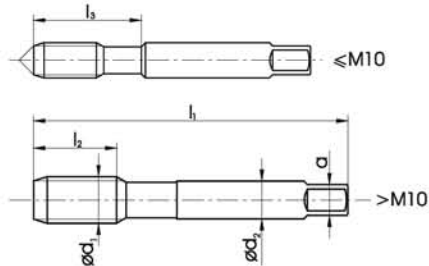
**Gwint metryczny zwykły ISO DIN-13**

ISO Metric coarse thread DIN-13

Metrisches ISO-Regelgewinde DIN-13



HSS


**ISO-529 / DIN-352**


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

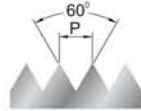
M	P	$l_1$	$l_2$	$l_3$	$\varnothing d_2$	a								
$\varnothing d_1$														
<b>DIN-352</b>									<b>INDEX</b>	A1-231001	A1-232001	A1-233001	A1-230001	-
M 1	0,25	38,5	5,5	10	2,5	2	0,75	0010	●	●	●	●		
M 1,1	0,25	38,5	5,5	10	2,5	2	0,85	0011	●	●	●	●		
M 1,2	0,25	38,5	5,5	10	2,5	2	0,95	0012	●	●	●	●		
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	●	●	●	●		
									<b>INDEX</b>	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:

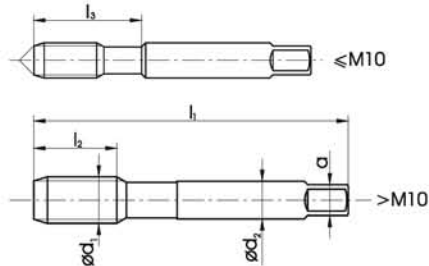
 A1-130001-0120  
 ISO-529/3 M12 ISO2 HSS

- 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**


2

								P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	P1.2-P1.3	
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											<math>\le 2,5d</math>	<math>\le 2,5d</math>	
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 <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	Ød <sub>2</sub>	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

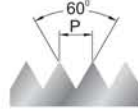
○ Do szybkiej dostawy, cena na zapytanie

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

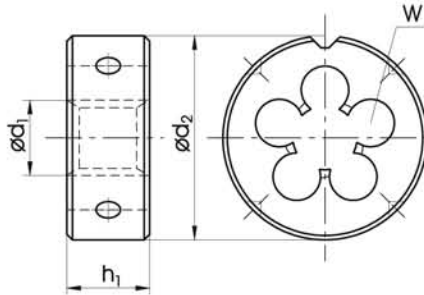
**Gwint metryczny zwykły ISO DIN-13**

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			
<b>Typ sprawdzianu</b> Type of gauge / Lehrentyp <b>GO - Przechodni</b> Go / Gut <b>NOGO - Nieprzechodni</b> No go / Ausschuss		<b>Wymiar sprawdzianu według normy PN-72/M-02140</b> Gauge dimensions PN-72/M-02140 Lehrenmaße nach PN-72/M-02140				<b>Wymiar sprawdzianu według normy ISO 1502</b> Gauge dimensions ISO 1502 Lehrenmaße nach ISO 1502			
				<div style="border: 1px solid red; padding: 5px;">                     Powyżej <math>\varnothing 52</math> sprawdziany przechodnie mają symbol MSCb, a nieprzechodnie MSCc i wykonywane są z rękojeściami oddzielnymi                       Go gauges above <math>\varnothing 52</math> are called MSCb and no go MSCc and they are produced with separate handle                       Bei dem Durchmesser über <math>\varnothing 52</math> mm Gut-Lehrdorn unter Bezeichnung MSCb und Ausschuss-Lehrdorn unter Bezeichnung MSCc, mit einseitigen Handgriffen                 </div>					
<b>Symbol / Symbol / Symbol</b>		MSBa		MSBa		MSBa pod gwint in thread / der Faden		MSBa pod gwint in thread / der Faden	
<b>Typ / Type / Typ</b>		GO / NOGO		GO / NOGO		GO / NOGO		GO / NOGO	
<b>Tolerancja / Tolerance / Toleranz</b>		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

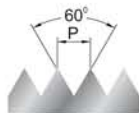
○ Do szybkiej dostawy, cena na zapytanie

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 Gewindelehrdorne

## 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



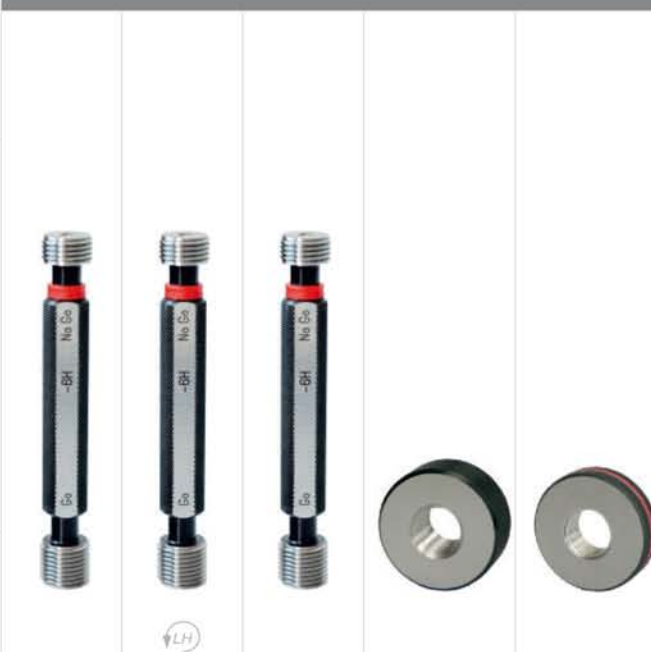
**Zestaw sprawdzianów** <sup>NEW</sup>  
 Set of gauges  
 Satz der Gewindelehrdorne

**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	MSRk	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	o	o	o	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	o	o	o	o
M 10 x 1,25	1,25	0104	o	o	o	o	o
M 11 x 1	1	0113	o	o	o	o	o
M 12 x 1	1	0123	o	o	o	o	o
M 12 x 1,25	1,25	0124	o	o	o	o	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	o	o	o	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	o	o	o	o
M 16 x 1,5	1,5	0165	o	o	o	o	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	o	o	o	o
M 20 x 1,5	1,5	0205	o	o	o	o	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	o	o	o	o
M 22 x 2	2	0226	o	o	o	o	o
M 24 x 1	1	0243	o	o	o	o	o
M 24 x 1,5	1,5	0245	o	o	o	o	o
M 24 x 2	2	0246	o	o	o	o	o
M 25 x 1,5	1,5	0255	o	o	o	o	o
M 26 x 1,5	1,5	0265	o	o	o	o	o
M 27 x 1,5	1,5	0275	o	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 Preisliste

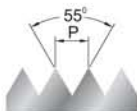
○ Do szybkiej dostawy, cena na zapytanie

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

**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 <sub>i</sub>	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

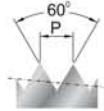
Available from stock, the price in the price list / Ab Lager lieferbar, der Preis in der Preisliste

○ 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  
 Lehrensystem ANSI/ASME B1.20.1

**Symbol / Symbol / Symbol**

MSXa

MSXc

**Typ / Type / Typ**
**Tolerancja / Tolerance / Toleranz**

NPT Ø d <sub>1</sub>	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

**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



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