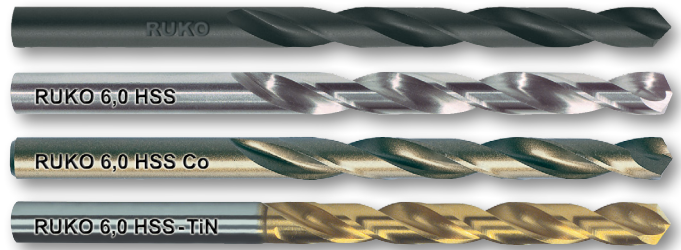


Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%

Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%
 Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%
 Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%

Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%
 Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%
 Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%

Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%



HSS-R valcuotas

Gręžimo antgalis: spiralinis
 Galiuko kampas: 118°
 Paviršius: juodas, grūdintas garais

Efektyvų valcuotą gražtą sudaro tvirtas, didelį greitį atlaikantis plienas. Medžiaga sustiprinta valcavimo gamybos procesu ir yra atsparesnė trūkims.

Taikymo sritys: plienas; grynas ketus ir jo lydiniai (iki 900 N/mm² tvirtumo); pilkas, lankstus, kalus ir lietas slegiant ketus; šlakuota geležis; naujasidabris; grafitas; aliuminio lydiniai, kuriuose susidaro trumpos atplaišos; žalvaris ir bronzos.

HSS-G Co 5 tekintas

Gręžimo antgalis: nuo Ø 3,0 mm kryžminis užgalandimas DIN 1412 C
 Galiuko kampas: 130°
 Paviršius: aukso rudumo

Kaip ir HSS-G plus, bet su kobalto priemaišomis. Kobaltas užtikrina geresnę atsparumą karščiui.

Taikymo sritys: grynas plienas ir jo lydiniai (iki 900 N/mm² tvirtumo); karšto ir šalto apdirbimo plienas; armuotas ir grūdintas cementavimu plienas; rūdintis ir rūgštims atsparus plienas.

HSS-G tekintas

Gręžimo antgalis: nuo Ø 3,0 mm kryžminis užgalandimas DIN 1412 C
 Galiuko kampas: 118°
 Paviršius: šviesus

Efektyvus tekintas spiralinis gražtas, pagamintas iš patvaraus, didelį greitį atlaikančio plieno. Tekintas spiralinis gražtas turi tikslesnę koncentriškumą.

Taikymo sritys: plienas; grynas ketus ir jo lydiniai (iki 900 N/mm² tvirtumo); pilkas, lankstus, kalus ir lietas slegiant ketus; šlakuota geležis; naujasidabris; grafitas; aliuminio lydiniai, kuriuose susidaro trumpos atplaišos; žalvaris ir bronzos.

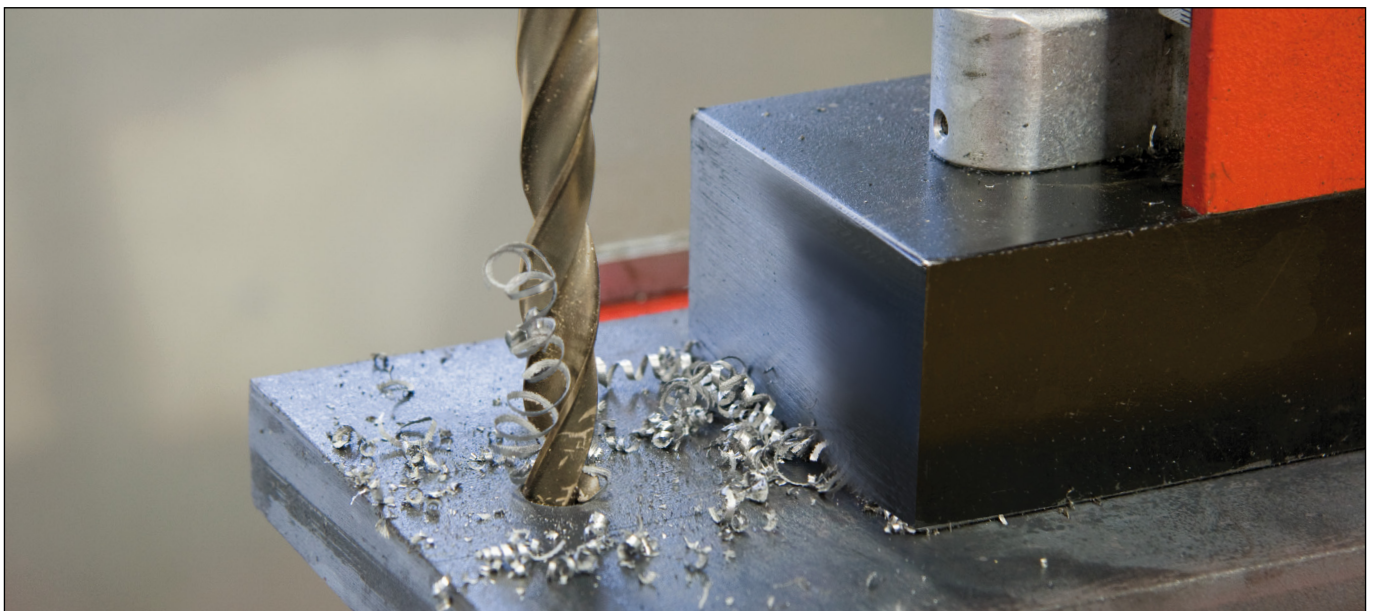
HSS-G TiN tekintas

Gręžimo antgalis: nuo Ø 3,0 mm kryžminis užgalandimas DIN 1412 C
 Galiuko kampas: 118°
 Paviršius: TiN danga

Kaip ir HSS-G plus, bet su titano nitrido danga. TiN nusidėvėjimui atspari danga sustiprina paviršiaus tvirtumą iki maždaug 2300 HV ir atsparumą karščiui iki 600 °C. Pasiekiamas ilgesnis eksploatacavimo laikas ir padidindamos pjovimo vertės.

Taikymo sritys: plienas; grynas ketus ir jo lydiniai (iki 900 N/mm² tvirtumo); pilkas, lankstus, kalus ir lietas slegiant ketus; šlakuota geležis; naujasidabris; grafitas; aliuminio lydiniai, kuriuose susidaro trumpos atplaišos; žalvaris ir bronzos.

reznezh es bronznoz.



Ø 0,30 - 5,70 mm (1/16" - 9/16") HSS-G TiN
HSS-R, HSS-G, HSS-G 6/5, HSS-G TiN

Ø mm	длина мм	диаметр мм	HSS-R	HSS-G	HSS-G 6/5	HSS-G TiN
0,30	19,0	3,0	201 003 10	214 003 10	—	250 003 T 10
0,40	20,0	5,0	201 004 10	214 004 10	—	250 004 T 10
0,50	22,0	6,0	201 005 10	214 005 10	—	250 005 T 10
0,60	24,0	7,0	201 006 10	214 006 10	—	250 006 T 10
0,70	28,0	9,0	201 007 10	214 007 10	—	250 007 T 10
0,80	30,0	10,0	201 008 10	214 008 10	—	250 008 T 10
0,90	32,0	11,0	201 009 10	214 009 10	—	250 009 T 10
1,00	34,0	12,0	201 010 10	214 010 10	215 010 10	250 010 T 10
1,10	36,0	14,0	201 011 10	214 011 10	215 011 10	250 011 T 10
1,20	38,0	16,0	201 012 10	214 012 10	215 012 10	250 012 T 10
1,25	38,0	16,0	201 0125 10	214 0125 10	215 0125 10	250 0125 T 10
1,30	38,0	16,0	201 013 10	214 013 10	215 013 10	250 013 T 10
1,40	40,0	18,0	201 014 10	214 014 10	215 014 10	250 014 T 10
1,50	40,0	18,0	201 015 10	214 015 10	215 015 10	250 015 T 10
1,60	43,0	20,0	201 016 10	214 016 10	215 016 10	250 016 T 10
1,70	43,0	20,0	201 017 10	214 017 10	215 017 10	250 017 T 10
1,75	46,0	22,0	201 0175 10	214 0175 10	215 0175 10	250 0175 T 10
1,80	46,0	22,0	201 018 10	214 018 10	215 018 10	250 018 T 10
1,90	46,0	22,0	201 019 10	214 019 10	215 019 10	250 019 T 10
2,00	49,0	24,0	201 020 10	214 020 10	215 020 10	250 020 T 10
2,10	49,0	24,0	201 021 10	214 021 10	215 021 10	250 021 T 10
2,20	53,0	27,0	201 022 10	214 022 10	215 022 10	250 022 T 10
2,25	53,0	27,0	201 0225 10	214 0225 10	215 0225 10	250 0225 T 10
2,30	53,0	27,0	201 023 10	214 023 10	215 023 10	250 023 T 10
2,40	57,0	30,0	201 024 10	214 024 10	215 024 10	250 024 T 10
2,50	57,0	30,0	201 025 10	214 025 10	215 025 10	250 025 T 10
2,60	57,0	30,0	201 026 10	214 026 10	215 026 10	250 026 T 10
2,70	61,0	33,0	201 027 10	214 027 10	215 027 10	250 027 T 10
2,75	61,0	33,0	201 0275 10	214 0275 10	215 0275 10	250 0275 T 10
2,80	61,0	33,0	201 028 10	214 028 10	215 028 10	250 028 T 10
2,90	61,0	33,0	201 029 10	214 029 10	215 029 10	250 029 T 10
3,00	61,0	33,0	201 030 10	214 030 10	215 030 10	250 030 T 10
3,10	65,0	36,0	201 031 10	214 031 10	215 031 10	250 031 T 10
3,20	65,0	36,0	201 032 10	214 032 10	215 032 10	250 032 T 10
3,25	65,0	36,0	201 0325 10	214 0325 10	215 0325 10	250 0325 T 10
3,30	65,0	36,0	201 033 10	214 033 10	215 033 10	250 033 T 10
3,40	70,0	39,0	201 034 10	214 034 10	215 034 10	250 034 T 10
3,50	70,0	39,0	201 035 10	214 035 10	215 035 10	250 035 T 10
3,60	70,0	39,0	201 036 10	214 036 10	215 036 10	250 036 T 10
3,70	70,0	39,0	201 037 10	214 037 10	215 037 10	250 037 T 10
3,75	70,0	39,0	201 0375 10	214 0375 10	215 0375 10	250 0375 T 10
3,80	75,0	43,0	201 038 10	214 038 10	215 038 10	250 038 T 10
3,90	75,0	43,0	201 039 10	214 039 10	215 039 10	250 039 T 10
4,00	75,0	43,0	201 040 10	214 040 10	215 040 10	250 040 T 10
4,10	75,0	43,0	201 041 10	214 041 10	215 041 10	250 041 T 10
4,20	75,0	43,0	201 042 10	214 042 10	215 042 10	250 042 T 10
4,25	75,0	43,0	201 0425 10	214 0425 10	215 0425 10	250 0425 T 10
4,30	80,0	47,0	201 043 10	214 043 10	215 043 10	250 043 T 10
4,40	80,0	47,0	201 044 10	214 044 10	215 044 10	250 044 T 10
4,50	80,0	47,0	201 045 10	214 045 10	215 045 10	250 045 T 10
4,60	80,0	47,0	201 046 10	214 046 10	215 046 10	250 046 T 10
4,70	80,0	47,0	201 047 10	214 047 10	215 047 10	250 047 T 10
4,75	80,0	47,0	201 0475 10	214 0475 10	215 0475 10	250 0475 T 10
4,80	86,0	52,0	201 048 10	214 048 10	215 048 10	250 048 T 10
4,90	86,0	52,0	201 049 10	214 049 10	215 049 10	250 049 T 10
5,00	86,0	52,0	201 050 10	214 050 10	215 050 10	250 050 T 10
5,10	86,0	52,0	201 051 10	214 051 10	215 051 10	250 051 T 10
5,20	86,0	52,0	201 052 10	214 052 10	215 052 10	250 052 T 10
5,25	86,0	52,0	201 0525 10	214 0525 10	215 0525 10	250 0525 T 10
5,30	86,0	52,0	201 053 10	214 053 10	215 053 10	250 053 T 10
5,40	93,0	57,0	201 054 10	214 054 10	215 054 10	250 054 T 10
5,50	93,0	57,0	201 055 10	214 055 10	215 055 10	250 055 T 10
5,60	93,0	57,0	201 056 10	214 056 10	215 056 10	250 056 T 10
5,70	93,0	57,0	201 057 10	214 057 10	215 057 10	250 057 T 10



Drilling bits HSS-R, HSS-G, HSS-G TiN
HSS-R, HSS-G, HSS-G TiN

Ø mm	Длина мм mm	Длина мм mm	HSS-R	HSS-G	HSS-G TiN	HSS-G TiN
5,70	93,0	57,0	201 057 10	214 057 10	215 057 10	250 057 T 10
5,75	93,0	57,0	201 0575 10	214 0575 10	215 0575 10	250 0575 T 10
5,80	93,0	57,0	201 058 10	214 058 10	215 058 10	250 058 T 10
5,90	93,0	57,0	201 059 10	214 059 10	215 059 10	250 059 T 10
6,00	93,0	57,0	201 060 10	214 060 10	215 060 10	250 060 T 10
6,10	101,0	63,0	201 061 10	214 061 10	215 061 10	250 061 T 10
6,20	101,0	63,0	201 062 10	214 062 10	215 062 10	250 062 T 10
6,25	101,0	63,0	201 0625 10	214 0625 10	215 0625 10	250 0625 T 10
6,30	101,0	63,0	201 063 10	214 063 10	215 063 10	250 063 T 10
6,40	101,0	63,0	201 064 10	214 064 10	215 064 10	250 064 T 10
6,50	101,0	63,0	201 065 10	214 065 10	215 065 10	250 065 T 10
6,60	101,0	63,0	201 066 10	214 066 10	215 066 10	250 066 T 10
6,70	101,0	63,0	201 067 10	214 067 10	215 067 10	250 067 T 10
6,75	109,0	69,0	201 0675 10	214 0675 10	215 0675 10	250 0675 T 10
6,80	109,0	69,0	201 068 10	214 068 10	215 068 10	250 068 T 10
6,90	109,0	69,0	201 069 10	214 069 10	215 069 10	250 069 T 10
7,00	109,0	69,0	201 070 10	214 070 10	215 070 10	250 070 T 10
7,10	109,0	69,0	201 071 10	214 071 10	215 071 10	250 071 T 10
7,20	109,0	69,0	201 072 10	214 072 10	215 072 10	250 072 T 10
7,25	109,0	69,0	201 0725 10	214 0725 10	215 0725 10	250 0725 T 10
7,30	109,0	69,0	201 073 10	214 073 10	215 073 10	250 073 T 10
7,40	109,0	69,0	201 074 10	214 074 10	215 074 10	250 074 T 10
7,50	109,0	69,0	201 075 10	214 075 10	215 075 10	250 075 T 10
7,60	117,0	75,0	201 076 10	214 076 10	215 076 10	250 076 T 10
7,70	117,0	75,0	201 077 10	214 077 10	215 077 10	250 077 T 10
7,75	117,0	75,0	201 0775 10	214 0775 10	215 0775 10	250 0775 T 10
7,80	117,0	75,0	201 078 10	214 078 10	215 078 10	250 078 T 10
7,90	117,0	75,0	201 079 10	214 079 10	215 079 10	250 079 T 10
8,00	117,0	75,0	201 080 10	214 080 10	215 080 10	250 080 T 10
8,10	117,0	75,0	201 081 10	214 081 10	215 081 10	250 081 T 10
8,20	117,0	75,0	201 082 10	214 082 10	215 082 10	250 082 T 10
8,25	117,0	75,0	201 0825 10	214 0825 10	215 0825 10	250 0825 T 10
8,30	117,0	75,0	201 083 10	214 083 10	215 083 10	250 083 T 10
8,40	117,0	75,0	201 084 10	214 084 10	215 084 10	250 084 T 10
8,50	117,0	75,0	201 085 10	214 085 10	215 085 10	250 085 T 10
8,60	125,0	81,0	201 086 10	214 086 10	215 086 10	250 086 T 10
8,70	125,0	81,0	201 087 10	214 087 10	215 087 10	250 087 T 10
8,75	125,0	81,0	201 0875 10	214 0875 10	215 0875 10	250 0875 T 10
8,80	125,0	81,0	201 088 10	214 088 10	215 088 10	250 088 T 10
8,90	125,0	81,0	201 089 10	214 089 10	215 089 10	250 089 T 10
9,00	125,0	81,0	201 090 10	214 090 10	215 090 10	250 090 T 10
9,10	125,0	81,0	201 091 10	214 091 10	215 091 10	250 091 T 10
9,20	125,0	81,0	201 092 10	214 092 10	215 092 10	250 092 T 10
9,25	125,0	81,0	201 0925 10	214 0925 10	215 0925 10	250 0925 T 10
9,30	125,0	81,0	201 093 10	214 093 10	215 093 10	250 093 T 10
9,40	125,0	81,0	201 094 10	214 094 10	215 094 10	250 094 T 10
9,50	125,0	81,0	201 095 10	214 095 10	215 095 10	250 095 T 10
9,60	133,0	87,0	201 096 10	214 096 10	215 096 10	250 096 T 10
9,70	133,0	87,0	201 097 10	214 097 10	215 097 10	250 097 T 10
9,75	133,0	87,0	201 0975 10	214 0975 10	215 0975 10	250 0975 T 10
9,80	133,0	87,0	201 098 10	214 098 10	215 098 10	250 098 T 10
19,90	133,0	87,0	201 099 10	214 099 10	215 099 10	250 099 T 10
10,00	133,0	87,0	201 100 10	214 100 10	215 100 10	250 100 T 10
10,10	133,0	87,0	201 101 10	214 101 10	215 101 10	250 101 T 10
10,20	133,0	87,0	201 102 10	214 102 10	215 102 10	250 102 T 10
10,30	133,0	87,0	201 103 10	214 103 10	—	250 103 T 10
10,40	133,0	87,0	201 104 10	214 104 10	—	250 104 T 10
10,50	133,0	87,0	201 105 5	214 105 5	215 105 5	250 105 T 5
10,60	133,0	87,0	201 106 5	214 106 5	—	250 106 T 5
10,70	142,0	94,0	201 107 5	214 107 5	—	250 107 T 5
10,80	142,0	94,0	201 108 5	214 108 5	—	250 108 T 5
10,90	142,0	94,0	201 109 5	214 109 5	215 110 5	250 109 T 5
11,00	142,0	94,0	201 110 5	214 110 5	215 110 5	250 110 T 5
11,10	142,0	94,0	201 111 5	214 111 5	—	250 111 T 5

GRĄŻTOWY MAGAZYN DIN 338, N TYPU, HSS, Ø 1,0 - 10,0 mm, 5 KAS, 214 200
HSS-R, HSS-G, HSS-G TiN, HSS-G Co 5, HSS-G TiN

Ø mm	Длина mm	Длина mm	HSS-R	HSS-G	HSS-G Co 5	HSS-G TiN
11,20	142,0	94,0	201 112	5	214 112	5
11,30	142,0	94,0	201 113	5	214 113	5
11,40	142,0	94,0	201 114	5	214 114	5
11,50	142,0	94,0	201 115	5	214 115	5
11,60	142,0	94,0	201 116	5	214 116	5
11,70	142,0	94,0	201 117	5	214 117	5
11,80	142,0	94,0	201 118	5	214 118	5
11,90	151,0	101,0	201 119	5	214 119	5
12,00	151,0	101,0	201 120	5	214 120	5
12,10	151,0	101,0	201 121	5	214 121	5
12,20	151,0	101,0	201 122	5	214 122	5
12,30	151,0	101,0	201 123	5	214 123	5
12,40	151,0	101,0	201 124	5	214 124	5
12,50	151,0	101,0	201 125	5	214 125	5
12,60	151,0	101,0	201 126	5	214 126	5
12,70	151,0	101,0	201 127	5	214 127	5
12,80	151,0	101,0	201 128	5	214 128	5
12,90	151,0	101,0	201 129	5	214 129	5
13,00	151,0	101,0	201 130	5	214 130	5
13,50	160,0	108,0	201 135	5	214 135	5
14,00	160,0	108,0	201 140	5	214 140	5
14,50	169,0	114,0	201 145	5	214 145	5
15,00	169,0	114,0	201 150	5	214 150	5
15,50	178,0	120,0	201 155	5	214 155	5
16,00	178,0	120,0	201 160	5	214 160	5
16,50	184,0	125,0	201 165	1	—	—
17,00	184,0	125,0	201 170	1	—	—
17,50	191,0	130,0	201 175	1	—	—
18,00	191,0	130,0	201 180	1	—	—
18,50	198,0	135,0	201 185	1	—	—
19,00	198,0	135,0	201 190	1	—	—
19,50	205,0	140,0	201 195	1	—	—
20,00	205,0	140,0	201 200	1	—	—

GRĄŻTOWY MAGAZYN DIN 338, N TYPU, HSS, Ø 1,0 - 10,0 mm, 5 KAS, 215 200
HSS-R, HSS-G, HSS-G TiN, HSS-G Co 5, HSS-G TiN

Opis	Oznaczenie
Susideda iš 170 spiralinių grąžtų DIN 338, N tipo, HSS tekinti 10 vnt., Ø 1,0 - 8,0 mm, didėjantys kas 0,5 mm 5 vnt., Ø 8,5 - 10,0 mm, didėjantys kas 0,5 mm	214 200
Magazyn z 170 spiralnych wiertł DIN 338, N typu, HSS, tekniowane 10 szt., Ø 1,0 - 8,0 mm, zwiększające się co 0,5 mm 5 szt., Ø 8,5 - 10,0 mm, zwiększające się co 0,5 mm	215 200



214 200

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[214044](#) [214096](#) [215030](#) [232025](#) [102302E](#) [237-030](#) [102114E](#) [A214215RO](#) [217-315](#) [214100](#) [214047](#) [208050](#) [214062](#) [214140](#) [214150](#)
[230025](#) [241 001](#) [241-010](#) [241-100](#)