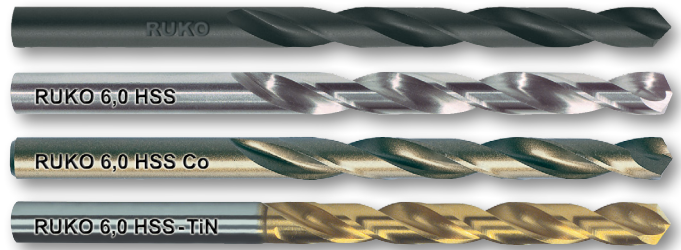


Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%

Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%
 Galiuko kampas: 118°
 Paviršius: juodas, grūdintas garais

Gręžimo antgalis: spiralinis (HSS 109,02657) Tūlis, HSS revėtus TiN et HSS Cobalt 5%
 Galiuko kampas: 118°
 Paviršius: juodas, grūdintas garais

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 trūkimams.

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 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 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.

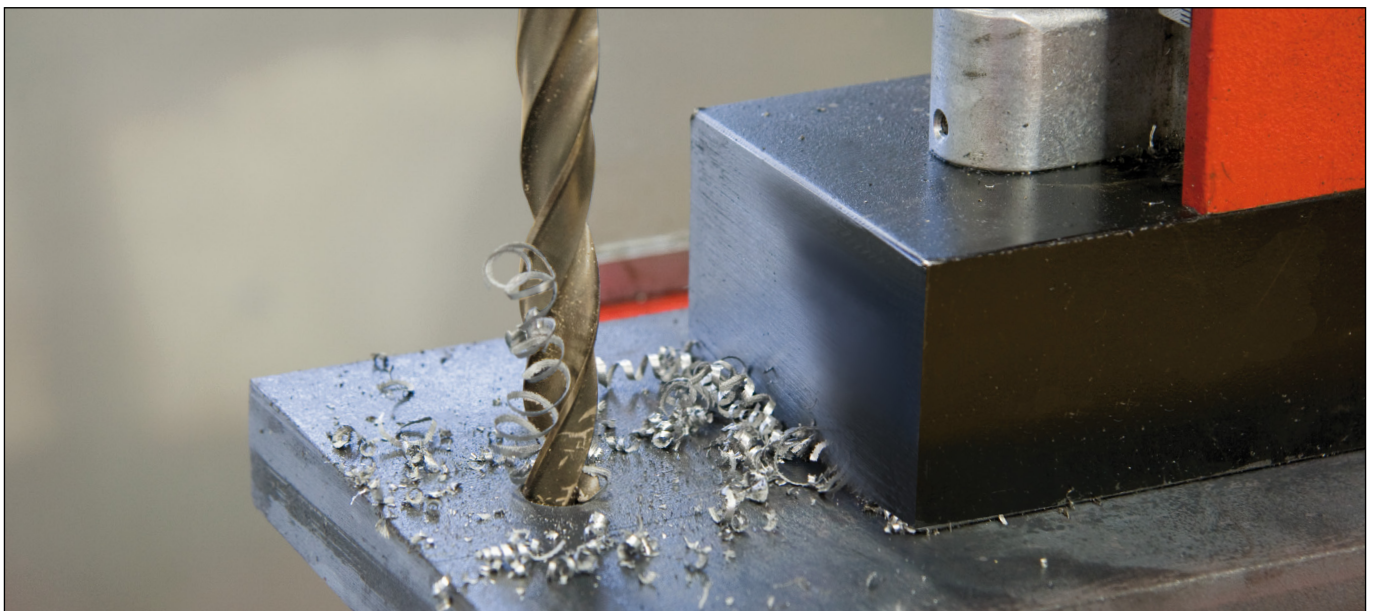
HSS-G TiN tekintas

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 |



Длина сверл по металлу (HSS-R, HSS-G, HSS-G TiN) в зависимости от диаметра сверла

| Ø mm | длина HSS-R мм | длина HSS-G мм | 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 |
| 6,20 | 101,0 | 63,0 | 201 062 10 | 214 062 10 | 215 062 10 | 250 062 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 |
| 7,20 | 109,0 | 69,0 | 201 072 10 | 214 072 10 | 215 072 10 | 250 072 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 |
| 8,20 | 117,0 | 75,0 | 201 082 10 | 214 082 10 | 215 082 10 | 250 082 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 |
| 9,20 | 125,0 | 81,0 | 201 092 10 | 214 092 10 | 215 092 10 | 250 092 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 |
| 10,20 | 133,0 | 87,0 | 201 102 10 | 214 102 10 | 215 102 10 | 250 102 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 |
| 10,60 | 133,0 | 87,0 | 201 106 5 | 214 106 5 | 215 105 5 | 250 106 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 |
| 11,20 | 142,0 | 94,0 | 201 112 5 | 214 112 5 | — | 250 112 T 5 |

GRĄŻTOWY MAGAZYN DIN 338, N TYPU, HSS-G, Ø 1,0 - 10,0 mm, 50 szt. (100 szt. w zestawie)

| Ø mm | Długość mm | Długość mm | HSS-R | HSS-G | HSS-G | HSS-G |
|--------------|--------------|--------------|----------------|----------|----------------|----------|
| 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-G, Ø 1,0 - 10,0 mm, 50 szt. (100 szt. w zestawie)

| 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 100 szt. grąży DIN 338, N typu, HSS-G, Ø 1,0 - 10,0 mm, 50 szt. w zestawie | 215 200 |



214 200

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[230025](#) [241 001](#) [241-010](#) [241-100](#)