



Niagara Cutter

S404 - Multi Flutes 30° Helix HSS Single-End Mill
for General Purpose
Non-Center-Cutting

Designed for all Materials
Profile / Slotting
Weldon Flat

Flute Diameter Tolerances : **+0.001"/-0.000"**
Shank Diameter Tolerances : **-0.0001"/-0.0005"**
Overall Length Tolerances : **+0.062"/-0.000"**
Length of Cut Tolerances
[1/16",5/16"] **+0.031"/-0.000"**
[21/64",1"] **+0.031"/-0.000"**
Helix Angle : **30°**

| Flute Diam. | Shank Diam. | Length Of Cut | Overall Length | #F | Uncoat | Suggested | | |
|-------------|-------------|---------------|----------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 1/8 | 3/8 | 3/8 | 2-5/16 | 4 | 35041 | 35040 | 69140 | 67167 |
| 5/32 | 3/8 | 7/16 | 2-5/16 | 4 | 35051 | 35050 | 79406 | 67168 |
| 11/64 | 3/8 | 1/2 | 2-3/8 | 4 | 35059 | 35058 | 69141 | 67169 |
| 3/16 | 3/8 | 3/16 | 2-1/16 | 4 | 34061 | 34060 | 88157 | 52340 |
| 3/16 | 3/8 | 1/2 | 2-3/8 | 4 | 35061 | 35060 | 69142 | 67170 |
| 3/16 | 3/8 | 5/8 | 2-1/2 | 4 | 36061 | 36060 | 88178 | 52215 |
| 3/16 | 3/8 | 3/4 | 2-5/8 | 4 | 37061 | 37060 | 88203 | 37608 |
| 3/16 | 3/8 | 1 | 2-7/8 | 4 | 33061 | 33060 | 88137 | 44340 |
| 3/16 | 3/8 | 1-1/8 | 3 | 4 | 38061 | 38060 | 88233 | 17536 |
| 13/64 | 3/8 | 1/2 | 2-3/8 | 4 | 35069 | 35068 | 69143 | 67171 |
| 7/32 | 3/8 | 1/4 | 2-1/16 | 4 | 34071 | 34070 | 88158 | 52341 |
| 7/32 | 3/8 | 3/4 | 2-9/16 | 4 | 36071 | 36070 | 88179 | 52216 |
| 7/32 | 3/8 | 7/8 | 2-11/16 | 4 | 37071 | 37070 | 88204 | 37609 |
| 7/32 | 3/8 | 1-1/4 | 3-1/16 | 4 | 33071 | 33070 | 88138 | 44341 |
| 7/32 | 3/8 | 1-3/4 | 3-9/16 | 4 | 38071 | 38070 | 88234 | 17537 |
| 7/32 | 3/8 | 5/8 | 2-7/16 | 4 | 35071 | 35070 | 69144 | 67172 |
| 15/64 | 3/8 | 5/8 | 2-7/16 | 4 | 35079 | 35078 | 69145 | 67173 |
| 1/4 | 3/8 | 1/4 | 2-1/16 | 4 | 34081 | 34080 | 88159 | 52342 |
| 1/4 | 3/8 | 5/8 | 2-7/16 | 4 | 35081 | 35080 | 35084 | 67174 |
| 1/4 | 3/8 | 3/4 | 2-9/16 | 4 | 36081 | 36080 | 88180 | 52217 |
| 1/4 | 3/8 | 1-1/4 | 3-1/16 | 4 | 37081 | 37080 | 88205 | 37610 |
| 1/4 | 3/8 | 1-1/2 | 3-5/16 | 4 | 33081 | 33080 | 88139 | 44342 |
| 1/4 | 3/8 | 1-3/4 | 3-9/16 | 4 | 38081 | 38080 | 88235 | 17538 |
| 17/64 | 3/8 | 5/8 | 2-7/16 | 4 | 35089 | 35088 | 69146 | 67175 |
| 9/32 | 3/8 | 5/16 | 2-1/8 | 4 | 34091 | 34090 | 88160 | 52343 |
| 9/32 | 3/8 | 1 | 2-3/4 | 4 | 36091 | 36090 | 88181 | 52218 |



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| Flute Diam. | Shank Diam. | Overall Length | Length Of Cut | #F | Uncoat | Suggested | | |
|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 9/32 | 3/8 | 1-3/8 | 3-1/8 | 4 | 37091 | 37090 | 88206 | 37611 |
| 9/32 | 3/8 | 1-5/8 | 3-3/8 | 4 | 33091 | 33090 | 88140 | 44343 |
| 9/32 | 3/8 | 2 | 3-3/4 | 4 | 38091 | 38090 | 88236 | 17539 |
| 9/32 | 3/8 | 5/8 | 2-7/16 | 4 | 35091 | 35090 | 69147 | 67176 |
| 19/64 | 3/8 | 3/4 | 2-1/2 | 4 | 35099 | 35098 | 69148 | 67177 |
| 5/16 | 3/8 | 5/16 | 2-1/16 | 4 | 34101 | 34100 | 88161 | 52344 |
| 5/16 | 3/8 | 3/4 | 2-1/2 | 4 | 35101 | 35100 | 35104 | 67178 |
| 5/16 | 3/8 | 1 | 2-3/4 | 4 | 36101 | 36100 | 88182 | 52219 |
| 5/16 | 3/8 | 1-3/8 | 3-1/8 | 4 | 37101 | 37100 | 88207 | 37612 |
| 5/16 | 3/8 | 1-5/8 | 3-3/8 | 4 | 33101 | 33100 | 88141 | 44344 |
| 5/16 | 3/8 | 2 | 3-3/4 | 4 | 38101 | 38100 | 88237 | 17540 |
| 21/64 | 3/8 | 3/4 | 2-1/2 | 4 | 35109 | 35108 | 69149 | 67179 |
| 11/32 | 3/8 | 3/8 | 2-1/8 | 4 | 34111 | 34110 | 88162 | 52345 |
| 11/32 | 3/8 | 1-1/8 | 2-7/8 | 4 | 36111 | 36110 | 88183 | 52220 |
| 11/32 | 3/8 | 1-1/2 | 3-1/4 | 4 | 37111 | 37110 | 88208 | 37613 |
| 11/32 | 3/8 | 1-7/8 | 3-5/8 | 4 | 33111 | 33110 | 88142 | 44345 |
| 11/32 | 3/8 | 2-1/2 | 4-1/4 | 4 | 38111 | 38110 | 88238 | 17541 |
| 11/32 | 3/8 | 3/4 | 2-1/2 | 4 | 35111 | 35110 | 69150 | 67180 |
| 23/64 | 3/8 | 3/4 | 2-1/2 | 4 | 35119 | 35118 | 69151 | 67181 |
| 3/8 | 3/8 | 3/8 | 2-1/8 | 4 | 34121 | 34120 | 88163 | 52346 |
| 3/8 | 3/8 | 3/4 | 2-1/2 | 4 | 35121 | 35120 | 35124 | 67182 |
| 3/8 | 3/8 | 1-1/8 | 2-7/8 | 4 | 36121 | 36120 | 88184 | 52221 |
| 3/8 | 3/8 | 1-1/2 | 3-1/4 | 4 | 37121 | 37120 | 88209 | 37614 |
| 3/8 | 3/8 | 1-7/8 | 3-5/8 | 4 | 33121 | 33120 | 88143 | 44346 |
| 3/8 | 3/8 | 2-1/2 | 4-1/4 | 4 | 38121 | 38120 | 88239 | 17542 |
| 25/64 | 3/8 | 1 | 2-11/16 | 4 | 35129 | 35128 | 69152 | 67183 |
| 13/32 | 3/8 | 7/16 | 2-1/8 | 4 | 34131 | 34130 | 88164 | 52347 |
| 13/32 | 3/8 | 1-3/8 | 3-1/16 | 4 | 36131 | 36130 | 88185 | 52222 |
| 13/32 | 3/8 | 2 | 3-11/16 | 4 | 37131 | 37130 | 88210 | 37615 |
| 13/32 | 3/8 | 2-1/4 | 3-15/16 | 4 | 33131 | 33130 | 88144 | 44347 |
| 13/32 | 3/8 | 2-5/8 | 4-5/16 | 4 | 38131 | 38130 | 88240 | 17543 |
| 13/32 | 3/8 | 1 | 2-11/16 | 4 | 35131 | 35130 | 69153 | 67184 |
| 27/64 | 3/8 | 1 | 2-11/16 | 4 | 35139 | 35138 | 69154 | 67185 |
| 7/16 | 3/8 | 7/16 | 2-1/8 | 4 | 34141 | 34140 | 88165 | 52348 |



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| Flute Diam. | Shank Diam. | Overall Length | Length Of Cut | #F | Uncoat | Suggested | | |
|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 7/16 | 3/8 | 1 | 2-11/16 | 4 | 35414 | 35140 | 69155 | 67186 |
| 7/16 | 3/8 | 3/8 | 3-1/16 | 4 | 36141 | 36140 | 88186 | 52223 |
| 7/16 | 3/8 | 2 | 3-11/16 | 4 | 37141 | 37140 | 88211 | 37616 |
| 7/16 | 3/8 | 2-1/4 | 3-15/16 | 4 | 33141 | 33140 | 88145 | 44348 |
| 7/16 | 3/8 | 2-5/8 | 4-5/16 | 4 | 38141 | 38140 | 88241 | 17544 |
| 7/16 | 1/2 | 1-3/4 | 3-3/4 | 4 | 37142 | 37148 | 88212 | 37617 |
| 29/64 | 3/8 | 1 | 2-11/16 | 4 | 35149 | 35148 | 69156 | 67187 |
| 15/32 | 3/8 | 1/2 | 2-3/16 | 4 | 34151 | 34150 | 88166 | 52349 |
| 15/32 | 3/8 | 1-1/2 | 3-3/16 | 4 | 36151 | 36150 | 88187 | 52224 |
| 15/32 | 3/8 | 2 | 3-11/16 | 4 | 37151 | 37150 | 88213 | 37618 |
| 15/32 | 3/8 | 2-1/2 | 4-3/16 | 4 | 33151 | 33150 | 88146 | 44349 |
| 15/32 | 3/8 | 3 | 4-11/16 | 4 | 38151 | 38150 | 88242 | 17545 |
| 15/32 | 3/8 | 1 | 2-11/16 | 4 | 35151 | 35150 | 69157 | 67188 |
| 31/64 | 3/8 | 1 | 2-11/16 | 4 | 35159 | 35158 | 69158 | 67189 |
| 1/2 | 3/8 | 1 | 2-11/16 | 4 | 35161 | 35167 | 69159 | 67190 |
| 1/2 | 1/2 | 1/2 | 2-1/2 | 4 | 34162 | 34160 | 88167 | 52350 |
| 1/2 | 1/2 | 1-1/4 | 3-1/4 | 4 | 35162 | 35160 | 35164 | 67191 |
| 1/2 | 1/2 | 1-1/2 | 3-1/2 | 4 | 36162 | 36160 | 88188 | 52225 |
| 1/2 | 1/2 | 2 | 4 | 4 | 37162 | 37160 | 88214 | 37619 |
| 1/2 | 1/2 | 2-1/2 | 4-1/2 | 4 | 33162 | 33160 | 88147 | 44350 |
| 1/2 | 1/2 | 3 | 5 | 4 | 38162 | 38160 | 88243 | 17546 |
| 33/64 | 1/2 | 1-1/4 | 3-1/4 | 4 | 35169 | 35168 | 69160 | 67192 |
| 17/32 | 1/2 | 5/8 | 2-5/8 | 4 | 34172 | 34170 | 88168 | 52351 |
| 17/32 | 1/2 | 1-7/8 | 3-7/8 | 4 | 36172 | 36170 | 88189 | 52226 |
| 17/32 | 1/2 | 2-1/2 | 4-1/2 | 4 | 37172 | 37170 | 88215 | 37620 |
| 17/32 | 1/2 | 3-1/8 | 5-1/8 | 4 | 33172 | 33170 | 88148 | 44351 |
| 17/32 | 1/2 | 4 | 6 | 4 | 38172 | 38170 | 88244 | 17547 |
| 17/32 | 1/2 | 1-3/8 | 3-3/8 | 4 | 35172 | 35170 | 69161 | 67193 |
| 35/64 | 1/2 | 1-3/8 | 3-3/8 | 4 | 35179 | 35178 | 69162 | 67194 |
| 9/16 | 1/2 | 5/8 | 2-5/8 | 4 | 34182 | 34180 | 88169 | 52352 |
| 9/16 | 1/2 | 1-3/8 | 3-3/8 | 4 | 35182 | 35180 | 69163 | 67195 |
| 9/16 | 1/2 | 1-7/8 | 3-7/8 | 4 | 36182 | 36180 | 88190 | 52227 |
| 9/16 | 1/2 | 2-1/2 | 4-1/2 | 4 | 37182 | 37180 | 88216 | 37621 |
| 9/16 | 1/2 | 3-1/8 | 5-1/8 | 4 | 33182 | 33180 | 88149 | 44352 |



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| Flute Diam. | Shank Diam. | Overall Length | Length Of Cut | #F | Uncoat | Suggested | | |
|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 9/16 | 1/2 | 4 | 6 | 4 | 38182 | 38180 | 88245 | 17548 |
| 37/64 | 1/2 | 1-3/8 | 3-3/8 | 4 | 35189 | 35188 | 69164 | 67196 |
| 19/32 | 1/2 | 1-3/8 | 3-3/8 | 4 | 35192 | 35190 | 69165 | 67197 |
| 39/64 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35199 | 35198 | 69166 | 67198 |
| 5/8 | 1/2 | 1-3/8 | 3-3/8 | 4 | 35202 | 35207 | 69167 | 67199 |
| 5/8 | 5/8 | 5/8 | 2-3/4 | 4 | 34203 | 34200 | 88170 | 52353 |
| 5/8 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35203 | 35200 | 35204 | 67200 |
| 5/8 | 5/8 | 1-7/8 | 4 | 4 | 36203 | 36200 | 88191 | 52228 |
| 5/8 | 5/8 | 2-1/2 | 4-5/8 | 4 | 37203 | 37200 | 88217 | 37622 |
| 5/8 | 5/8 | 3-1/8 | 5-1/4 | 4 | 33203 | 33200 | 88150 | 44353 |
| 5/8 | 5/8 | 4 | 6-1/8 | 4 | 38203 | 38200 | 88246 | 17549 |
| 41/64 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35209 | 35208 | 69168 | 67201 |
| 21/32 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35213 | 35210 | 69169 | 67202 |
| 43/64 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35219 | 35218 | 69170 | 67203 |
| 11/16 | 1/2 | 1-5/8 | 3-5/8 | 4 | 35222 | 35227 | 69171 | 67204 |
| 11/16 | 5/8 | 3/4 | 2-7/8 | 4 | 34223 | 34220 | 88171 | 52354 |
| 11/16 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35223 | 35220 | 69172 | 67205 |
| 11/16 | 5/8 | 2-1/4 | 4-3/8 | 4 | 36223 | 36220 | 88192 | 52229 |
| 11/16 | 5/8 | 3 | 5-1/8 | 4 | 37223 | 37220 | 88218 | 37623 |
| 11/16 | 5/8 | 3-1/2 | 5-5/8 | 4 | 33223 | 33220 | 88151 | 44354 |
| 11/16 | 5/8 | 4 | 6-1/8 | 4 | 38223 | 38220 | 88247 | 17550 |
| 45/64 | 3/4 | 1-5/8 | 3-7/8 | 4 | 35229 | 35228 | 69173 | 67206 |
| 23/32 | 3/4 | 1-5/8 | 3-7/8 | 4 | 35234 | 35230 | 69174 | 67207 |
| 47/64 | 3/4 | 1-5/8 | 3-7/8 | 4 | 35239 | 35238 | 69175 | 67208 |
| 3/4 | 1/2 | 3/4 | 2-3/4 | 4 | 87242 | 87240 | 89312 | 31082 |
| 3/4 | 1/2 | 1-5/8 | 3-5/8 | 4 | 35242 | 35241 | 69176 | 67209 |
| 3/4 | 1/2 | 3 | 5 | 4 | 37242 | 37248 | 88220 | 37625 |
| 3/4 | 5/8 | 1-5/8 | 3-3/4 | 4 | 35243 | 35247 | 69177 | 67210 |
| 3/4 | 3/4 | 3/4 | 3 | 4 | 34244 | 34240 | 88172 | 52355 |
| 3/4 | 3/4 | 1-1/2 | 3-3/4 | 6 | 35246 | 35255 | 69229 | 67211 |
| 3/4 | 3/4 | 1-5/8 | 3-7/8 | 4 | 35244 | 35240 | 35245 | 67212 |
| 3/4 | 3/4 | 2-1/4 | 4-1/2 | 4 | 36244 | 36240 | 88193 | 52230 |
| 3/4 | 3/4 | 3 | 5-1/4 | 4 | 37244 | 37240 | 88219 | 37624 |
| 3/4 | 3/4 | 3-1/2 | 5-3/4 | 4 | 33244 | 33240 | 88152 | 44355 |



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| Flute Diam. | Shank Diam. | Overall Length | Length Of Cut | #F | Uncoat | Suggested | | |
|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 3/4 | 3/4 | 4 | 6-1/4 | 4 | 38244 | 38240 | 88248 | 17551 |
| 49/64 | 3/4 | 1-7/8 | 4-1/8 | 4 | 35249 | 35248 | 69178 | 67213 |
| 25/32 | 3/4 | 1-7/8 | 4-1/8 | 4 | 35259 | 35258 | 69190 | 67215 |
| 13/16 | 5/8 | 1-7/8 | 4 | 6 | 35263 | 35267 | 69181 | 67216 |
| 13/16 | 3/4 | 7/8 | 3-1/8 | 4 | 34264 | 34260 | 88173 | 52356 |
| 13/16 | 3/4 | 1-7/8 | 4-1/8 | 4 | 35264 | 35260 | 69182 | 67217 |
| 13/16 | 3/4 | 2-5/8 | 4-7/8 | 4 | 36264 | 36260 | 88194 | 52231 |
| 13/16 | 3/4 | 3-1/2 | 5-3/4 | 4 | 37264 | 37260 | 88221 | 37626 |
| 13/16 | 3/4 | 4-3/8 | 6-5/8 | 4 | 33264 | 33260 | 88153 | 44356 |
| 13/16 | 3/4 | 5 | 7-1/4 | 4 | 38264 | 38260 | 88249 | 17552 |
| 53/64 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35269 | 35268 | 69183 | 67218 |
| 27/32 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35275 | 35270 | 69184 | 67219 |
| 55/64 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35279 | 35278 | 69185 | 67220 |
| 7/8 | 1/2 | 7/8 | 2-7/8 | 4 | 87282 | 87280 | 89313 | 31083 |
| 7/8 | 5/8 | 1-7/8 | 4 | 6 | 35283 | 35281 | 69186 | 67221 |
| 7/8 | 3/4 | 1-7/8 | 4-1/8 | 4 | 35284 | 35287 | 69187 | 67222 |
| 7/8 | 7/8 | 7/8 | 3-1/8 | 4 | 34285 | 34280 | 88174 | 52357 |
| 7/8 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35285 | 35280 | 69188 | 67223 |
| 7/8 | 7/8 | 2-5/8 | 4-7/8 | 4 | 36285 | 36280 | 88195 | 52232 |
| 7/8 | 7/8 | 3-1/2 | 5-3/4 | 4 | 37285 | 37280 | 88222 | 37627 |
| 7/8 | 7/8 | 4-3/8 | 6-5/8 | 4 | 33285 | 33280 | 88154 | 44357 |
| 7/8 | 7/8 | 5 | 7-1/4 | 4 | 38285 | 38280 | 88250 | 17553 |
| 57/64 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35289 | 35288 | 69189 | 67224 |
| 29/32 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35295 | 35290 | 69190 | 67225 |
| 59/64 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35299 | 35298 | 69191 | 67226 |
| 15/16 | 5/8 | 1-7/8 | 4 | 6 | 35303 | 35301 | 69192 | 67227 |
| 15/16 | 3/4 | 1-7/8 | 4-1/8 | 4 | 35304 | 35302 | 69193 | 67228 |
| 15/16 | 7/8 | 1 | 3-1/4 | 4 | 34305 | 34300 | 88175 | 52358 |
| 15/16 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35305 | 35300 | 69194 | 67229 |
| 15/16 | 7/8 | 3 | 5-1/4 | 4 | 36305 | 36300 | 88196 | 52233 |
| 15/16 | 7/8 | 4 | 6-1/4 | 4 | 37305 | 37300 | 88223 | 37628 |
| 15/16 | 7/8 | 5 | 7-1/4 | 4 | 33305 | 33300 | 88155 | 44358 |
| 15/16 | 7/8 | 6 | 8-1/4 | 4 | 38305 | 38300 | 88251 | 17554 |
| 61/64 | 1 | 2 | 4-1/2 | 4 | 35309 | 35308 | 69195 | 67230 |



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| Flute Diam. | Shank Diam. | Overall Length | Length Of Cut | #F | Uncoat | Suggested | | |
|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 31/32 | 1 | 2 | 4-1/2 | 4 | 35316 | 35310 | 69196 | 67231 |
| 63/64 | 1 | 2 | 4-1/2 | 4 | 35319 | 35318 | 69197 | 67232 |
| 1 | 1/2 | 1 | 3 | 6 | 87322 | 87321 | 89314 | 31084 |
| 1 | 5/8 | 1-7/8 | 4 | 6 | 35323 | 35322 | 69198 | 67233 |
| 1 | 3/4 | 1-1/4 | 3-1/2 | 4 | 87324 | 87323 | 89315 | 31087 |
| 1 | 3/4 | 1-1/4 | 3-1/2 | 6 | 87328 | 87327 | 89316 | 31088 |
| 1 | 3/4 | 1-7/8 | 4-1/8 | 4 | 35324 | 35321 | 69199 | 67234 |
| 1 | 7/8 | 1-7/8 | 4-1/8 | 4 | 35325 | 35328 | 69200 | 67235 |
| 1 | 1 | 1 | 3-1/2 | 4 | 34326 | 34320 | 88176 | 52359 |
| 1 | 1 | 2 | 4-1/2 | 4 | 35326 | 35320 | 35329 | 67236 |
| 1 | 1 | 3 | 5-1/2 | 4 | 36326 | 36320 | 88197 | 52234 |
| 1 | 1 | 4 | 6-1/2 | 4 | 37326 | 37320 | 88224 | 37629 |
| 1 | 1 | 5 | 7-1/2 | 4 | 33326 | 33320 | 88156 | 44359 |
| 1 | 1 | 6 | 8-1/2 | 4 | 38326 | 38320 | 88252 | 17555 |
| 1-1/16 | 3/4 | 2 | 4-1/4 | 6 | 35344 | 35348 | 69201 | 67237 |
| 1-1/16 | 1 | 2 | 4-1/2 | 6 | 35346 | 35340 | 69202 | 67238 |
| 1-1/8 | 1/2 | 1 | 3 | 6 | 87362 | 87361 | 89317 | 31085 |
| 1-1/8 | 3/4 | 1-1/4 | 3-1/2 | 6 | 87364 | 87363 | 89318 | 31089 |
| 1-1/8 | 3/4 | 2 | 4-1/4 | 6 | 35364 | 35361 | 69203 | 67239 |
| 1-1/8 | 7/8 | 2 | 4-1/4 | 6 | 35365 | 35362 | 69204 | 67240 |
| 1-1/8 | 1 | 2 | 4-1/2 | 6 | 35366 | 35360 | 69205 | 67241 |
| 1-1/8 | 1 | 4 | 6-1/2 | 6 | 37366 | 37360 | 88225 | 37630 |
| 1-3/16 | 3/4 | 2 | 4-1/4 | 6 | 35384 | 35381 | 69206 | 67242 |
| 1-3/16 | 1 | 2 | 4-1/2 | 6 | 35386 | 35380 | 69207 | 67243 |
| 1-1/4 | 1/2 | 1 | 3 | 6 | 87402 | 87401 | 89319 | 31086 |
| 1-1/4 | 3/4 | 1-1/4 | 3-1/2 | 6 | 87404 | 87403 | 89320 | 31090 |
| 1-1/4 | 3/4 | 2 | 4-1/4 | 6 | 35404 | 35402 | 69208 | 67244 |
| 1-1/4 | 7/8 | 2 | 4-1/4 | 6 | 35405 | 35403 | 69209 | 67245 |
| 1-1/4 | 1 | 2 | 4-1/2 | 6 | 35406 | 35401 | 69210 | 67246 |
| 1-1/4 | 1 | 4 | 6-1/2 | 6 | 67406 | 37401 | 88226 | 37631 |
| 1-1/4 | 1-1/4 | 2 | 4-1/2 | 6 | 35407 | 35400 | 69211 | 67247 |
| 1-1/4 | 1-1/4 | 3 | 5-1/2 | 4 | 36407 | 36400 | 88198 | 52235 |
| 1-1/4 | 1-1/4 | 4 | 6-1/2 | 6 | 37407 | 37400 | 88227 | 37632 |
| 1-1/4 | 1-1/4 | 6 | 8-1/2 | 6 | 38407 | 38400 | 88253 | 17556 |



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|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 1-5/16 | 1 | 2 | 4-1/2 | 6 | 35426 | 35420 | 69212 | 67248 |
| 1-3/8 | 3/4 | 1-1/4 | 3-1/2 | 6 | 87444 | 87443 | 89321 | 31091 |
| 1-3/8 | 3/4 | 2 | 4-1/4 | 6 | 35444 | 35448 | 69213 | 67249 |
| 1-3/8 | 1 | 2 | 4-1/2 | 6 | 35446 | 35440 | 69214 | 67250 |
| 1-3/8 | 1 | 4 | 6-1/2 | 6 | 37446 | 37440 | 88228 | 37633 |
| 1-7/16 | 1 | 2 | 4-1/2 | 6 | 35466 | 35460 | 69215 | 67251 |
| 1-1/2 | 3/4 | 1-1/4 | 3-1/2 | 6 | 87484 | 87483 | 89322 | 31092 |
| 1-1/2 | 3/4 | 2 | 4-1/4 | 6 | 35484 | 35482 | 69216 | 67252 |
| 1-1/2 | 1 | 2 | 4-1/2 | 6 | 35486 | 35481 | 69217 | 67253 |
| 1-1/2 | 1 | 4 | 6-1/2 | 6 | 37486 | 37481 | 88229 | 37634 |
| 1-1/2 | 1-1/4 | 2 | 4-1/2 | 6 | 35487 | 35480 | 69218 | 67254 |
| 1-1/2 | 1-1/4 | 3 | 5-1/2 | 4 | 36487 | 36480 | 88199 | 52236 |
| 1-1/2 | 1-1/4 | 4 | 6-1/2 | 6 | 37487 | 37480 | 88230 | 37635 |
| 1-1/2 | 1-1/4 | 8 | 10-1/2 | 6 | 38487 | 38480 | 88254 | 17557 |
| 1-9/16 | 1-1/4 | 2 | 4-1/2 | 6 | 35507 | 35500 | 69219 | 67255 |
| 1-5/8 | 1-1/4 | 2 | 4-1/2 | 6 | 35527 | 35520 | 69220 | 67256 |
| 1-5/8 | 1-1/4 | 4 | 6-1/2 | 6 | 37527 | 37520 | 79407 | 37636 |
| 1-11/16 | 1-1/4 | 2 | 4-1/2 | 6 | 35547 | 35540 | 69221 | 67257 |
| 1-3/4 | 3/4 | 2 | 4-1/4 | 6 | 35564 | 35561 | 69222 | 67258 |
| 1-3/4 | 1 | 1-1/4 | 3-3/4 | 8 | 87566 | 87560 | 89323 | 31093 |
| 1-3/4 | 1-1/4 | 2 | 4-1/2 | 6 | 35567 | 35560 | 69223 | 67259 |
| 1-3/4 | 1-1/4 | 3 | 5-1/2 | 4 | 36567 | 36560 | 88200 | 52237 |
| 1-3/4 | 1-1/4 | 4 | 6-1/2 | 6 | 37567 | 37560 | 88231 | 37637 |
| 1-13/16 | 1-1/4 | 2 | 4-1/2 | 6 | 35587 | 35580 | 69224 | 67260 |
| 1-7/8 | 1-1/4 | 2 | 4-1/2 | 6 | 35607 | 35600 | 69225 | 67261 |
| 1-7/8 | 1-1/4 | 4 | 6-1/2 | 6 | 37607 | 37600 | 79408 | 37638 |
| 1-15/16 | 1-1/4 | 2 | 4-1/2 | 6 | 35627 | 35620 | 69226 | 67262 |
| 2 | 3/4 | 2 | 4-1/4 | 8 | 35644 | 35641 | 69227 | 67263 |
| 2 | 1 | 1-1/4 | 3-3/4 | 8 | 87646 | 87640 | 89324 | 31094 |
| 2 | 1-1/4 | 2 | 4-1/2 | 8 | 35647 | 35640 | 69228 | 67264 |
| 2 | 1-1/4 | 3 | 5-1/2 | 4 | 36647 | 36640 | 88201 | 52238 |
| 2 | 1-1/4 | 3 | 5-1/2 | 6 | 36648 | 36649 | 88202 | 52239 |
| 2 | 1-1/4 | 4 | 6-1/2 | 8 | 37647 | 37640 | 88232 | 37639 |



Niagara Cutter

S404 - Multi Flutes 30° Helix HSS Single-End Mill
for General Purpose
Non-Center-Cutting

| Flute Diam. | Shank Diam. | Overall Length | Length Of Cut | #F | Uncoat | Suggested | | |
|----------------|----------------|-------------------|------------------|----|--------|-----------|-------|-------|
| | | | | | | TiN | TiCN | TiAlN |
| 2-1/4 | 1-1/4 | 1-1/2 | 4 | 8 | 87727 | 87720 | 89325 | 31095 |
| 2-1/2 | 1-1/4 | 1-1/2 | 4 | 8 | 87807 | 87800 | 89326 | 31096 |