



Speeds & Feeds

Product Table: Variable Helix End Mills for Medium Alloy Steels - Square

Characteristics: 4x Length of Cut

Series: 8148xx-C3, 8149xx-C3

| Material | Hardness (HBn) | SFM | Chip Load (IPT) By Cutter Diameter | | | | | | | | | | | | Depth of Cut | | |
|---|----------------|-----|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|----------|--------------|
| | | | 0.015 | 0.031 | 0.047 | 0.062 | 0.078 | 0.093 | 0.125 | 0.187 | 0.250 | 0.312 | 0.375 | 0.500 | Radial | Axial | |
| CARBON STEELS 1030 - 1095, 1140 - 1151, 13xx, 15xx, 2xxx, 3xxx, 4xxx & 4xLxx, 5xxx & 5xLxx, 50xxx & 50Lxxx, 51xxx & 51Lxxx, 52xxx & 52Lxxx, 6xxx, 8xxx, 9xxx | 225 - 250 | 250 | Slotting | .00007 | .00015 | .00022 | .00029 | .00037 | .00044 | .00056 | .00084 | .00113 | .00148 | .00177 | .00237 | 1x Dia | .42x Dia |
| | | | Roughing | .00009 | .00018 | .00027 | .00035 | .00045 | .00053 | .00068 | .00102 | .00136 | .00178 | .00214 | .00286 | .42x Dia | .5x - 1x Dia |
| STAINLESS STEELS 201, 202, 203, 205, 301, 302, 304, 304L, 308, 309, 310, 314, 316, 316L, 317, 321, 329, 330, 347, 348, 385, 403, 405, 409, 410, 413, 414, 42x, 43x, 44x, 501, 502 | 250 - 275 | 220 | Finishing | .00010 | .00021 | .00032 | .00043 | .00054 | .00064 | .00082 | .00122 | .00164 | .00214 | .00258 | .00344 | .1x Dia | .5x - 1x Dia |
| | | | Max | .00013 | .00027 | .00042 | .00055 | .00069 | .00082 | .00105 | .00157 | .00210 | .00276 | .00331 | .00442 | - | - |
| TOOL STEELS A, L, O, P, W series | 275 - 300 | 180 | Max | .00013 | .00027 | .00042 | .00055 | .00069 | .00082 | .00105 | .00157 | .00210 | .00276 | .00331 | .00442 | - | - |

Please note:

All posted speed and feed parameters are suggested starting values that may be increased given optimal setup conditions. If less than minimum Axial or Radial DOC values are used, increased feed rates are possible.

If you require additional information, Harvey Tool has a team of technical experts available to assist you through even the most challenging applications. Please contact us at **800-645-5609** or Harveytech@harveyperformance.com.

WARNING: Cutting tools may shatter under improper use. Government regulations require use of safety glasses and other appropriate safety equipment in the vicinity of use.