## 4-Flute Regular Length HSCO - Metric

Centre cutting allows these end mills to drill into the part for the beginning of a slot. These centre cutting end mills are recommended for pocketing, tracer milling, cam milling, die sinking and slotting. • Single end with weldon shank



HSCO | BRIGHT | REG LENGTH | 30°

Speeds & Feeds ➤ P. A40

| Cutting Dia. (mm) | Shank Dia. (in.) | Flute Length (in.) | Overall Length (in.) | Code No. | Price $ |
|---|---|---|---|---|---|
| 2 mm | 3/8 | 3/8 | 2-5/16 | 103730 | **23.36** |
| 3 mm | 3/8 | 3/8 | 2-5/16 | 103731 | **23.36** |
| 4 mm | 3/8 | 1/2 | 2-3/8 | 103732 | **23.36** |
| 5 mm | 3/8 | 9/16 | 2-1/2 | 103733 | **23.36** |
| 6 mm | 3/8 | 5/8 | 2-1/2 | 103734 | **23.36** |
| 7 mm | 3/8 | 11/16 | 2-1/2 | 103735 | **23.36** |
| 8 mm | 3/8 | 3/4 | 2-1/2 | 103736 | **23.36** |
| 10 mm | 3/8 | 1 | 2-11/16 | 103737 | **23.36** |
| 11 mm | 3/8 | 1 | 2-11/16 | 103749 | **35.65** |
| 12 mm | 3/8 | 1 | 2-11/16 | 103738 | **35.65** |
| 13 mm | 1/2 | 1-1/4 | 3-1/4 | 103750 | **44.00** |
| 14 mm | 1/2 | 1-3/8 | 3-3/8 | 103739 | **41.48** |
| 16 mm | 5/8 | 1-5/8 | 3-3/4 | 103740 | **50.85** |
| 18 mm | 5/8 | 1-5/8 | 3-3/4 | 103741 | **59.37** |
| 20 mm | 5/8 | 1-7/8 | 4-1/8 | 103742 | **66.14** |
| 22 mm | 3/4 | 1-7/8 | 4-1/8 | 103743 | **76.29** |
| 24 mm | 3/4 | 2 | 4-1/2 | 103744 | **98.39** |

## Multi-Flute Long Length HSCO

- Multiple helical flutes
- Centre cutting
- Single end with weldon shank



HSCO | BRIGHT | LONG LENGTH | 30°

Speeds & Feeds ➤ P. A40

| Cutting Dia. (in.) | Shank Dia. (in.) | Flute Length (in.) | Overall Length (in.) | Flutes | Comb. Shank Code No. | Price $ | Weldon Flat Code No. | Price $ |
|---|---|---|---|---|---|---|---|---|
| **Inch** | | | | | | | | |
| 1/4 | 3/8 | 1-1/4 | 3-1/16 | 4 | - | - | 103360 | **27.18** |
| 5/16 | 3/8 | 1-3/8 | 3-1/8 | 4 | - | - | 103361 | **27.18** |
| 3/8 | 3/8 | 1-1/2 | 3-1/4 | 4 | - | - | 103362 | **27.18** |
| 1/2 | 1/2 | 2 | 4 | 4 | 103658 | **31.36** | 103363 | **40.66** |
| 5/8 | 5/8 | 2-1/2 | 4-5/8 | 4 | - | - | 103364 | **63.25** |
| 3/4 | 3/4 | 3 | 5-1/4 | 4 | - | - | 103365 | **74.82** |
| 7/8 | 3/4 | 3-1/2 | 5-3/4 | 4 | 103664 | **155.76** | 103366 | **91.89** |
| 1 | 1 | 4 | 6-1/2 | 4 | 103666 | **132.32** | 103367 | **138.67** |
| 1-1/4 | 1-1/4 | 4 | 6-1/2 | 6 | - | - | 103368 | **180.64** |
| 1-1/2 | 1-1/4 | 4 | 6-1/2 | 6 | - | - | 103369 | **251.96** |

## Multi-Flute Regular Length HSCO & HSS

Centre cutting allows these end mills to drill into the part for the beginning of a slot. These centre cutting end mills are recommended for pocketing, tracer milling, cam milling, die sinking and slotting.



HSCO | HSS | BRIGHT | TiAlN | REG LENGTH | 30°

Speeds & Feeds ➤ P. A40

| Cutting Dia. (in.) | Shank Dia. (in.) | Flute Length (in.) | Overall Length (in.) | Flutes | HSCO Weldon Flat Code No. | HSCO Weldon Flat Price $ | HSCO TiAlN Coated Weldon Flat Code No. | HSCO TiAlN Coated Weldon Flat Price $ | HSS Weldon Flat Code No. | HSS Weldon Flat Price $ | HSCO Comb. Shank Code No. | HSCO Comb. Shank Price $ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Inch** | | | | | | | | | | | | |
| 1/8 | 3/8 | 3/8 | 2-5/16 | 4 | 103222 | **19.66** | 104522 | **38.27** | 104400 | **12.72** | - | - |
| 5/32 | 3/8 | 7/16 | 2-3/8 | 4 | 103223 | **18.25** | - | - | 104402 | **12.40** | 103021 | **13.12** |
| 3/16 | 3/8 | 1/2 | 2-3/8 | 4 | 103224 | **20.82** | 104524 | **38.27** | 104404 | **13.27** | - | - |
| 7/32 | 3/8 | 9/16 | 2-7/16 | 4 | 103225 | **15.72** | - | - | 104406 | **12.71** | 103023 | **14.64** |
| 1/4 | 3/8 | 5/8 | 2-7/16 | 4 | 103226 | **20.82** | 104526 | **35.64** | 104408 | **13.27** | - | - |
| 9/32 | 3/8 | 11/16 | 2-1/2 | 4 | 103227 | **20.82** | - | - | 104410 | **13.27** | - | - |
| 5/16 | 3/8 | 3/4 | 2-1/2 | 4 | 103228 | **20.82** | 104528 | **38.29** | 104412 | **14.04** | - | - |
| 11/32 | 3/8 | 3/4 | 2-1/2 | 4 | 103229 | **20.82** | - | - | 104414 | **14.88** | 103027 | **13.12** |
| 3/8 | 3/8 | 3/4 | 2-1/2 | 4 | 103230 | **20.82** | 104530 | **38.29** | 104416 | **14.03** | - | - |
| 13/32 | 3/8 | 1 | 2-11/16 | 4 | 103231 | **29.47** | - | - | 104418 | **21.55** | - | - |
| 7/16 | 3/8 | 1 | 2-11/16 | 4 | 103232 | **31.23** | 104532 | **48.63** | 104420 | **21.56** | - | - |
| 1/2 | 1/2 | 1-1/4 | 3-1/4 | 4 | 103235 | **31.23** | 104535 | **56.01** | 104422 | **21.56** | - | - |
| 9/16 | 1/2 | 1-3/8 | 3-3/8 | 4 | 103237 | **41.37** | - | - | 104424 | **29.89** | 103031 | **50.90** |
| 5/8 | 5/8 | 1-5/8 | 3-3/4 | 4 | 103240 | **47.83** | 104540 | **77.55** | 104426 | **30.95** | - | - |
| 11/16 | 5/8 | 1-5/8 | 3-3/4 | 4 | 103242 | **53.14** | - | - | 104428 | **35.84** | 103033 | **44.76** |
| 3/4 | 3/4 | 1-5/8 | 3-7/8 | 4 | 103246 | **56.59** | 104546 | **86.23** | 104430 | **41.17** | - | - |
| 13/16 | 3/4 | 1-7/8 | 4-1/8 | 4 | 103248 | **59.06** | - | - | - | - | - | - |
| 7/8 | 3/4 | 1-7/8 | 4-1/8 | 4 | 103252 | **71.07** | - | - | 104432 | **51.60** | - | - |
| 1 | 1 | 2 | 4-1/2 | 4 | 103259 | **85.73** | 104559 | **137.02** | 104434 | **52.80** | - | - |
| 1-1/8 | 1 | 2 | 4-1/2 | 4 | - | - | 104561 | **166.66** | - | - | - | - |
| 1-1/8 | 1 | 2 | 4-1/2 | 6 | 103261 | **115.45** | - | - | 104436 | **120.13** | - | - |
| 1-1/4 | 1-1/4 | 2 | 4-1/2 | 4 | - | - | 104564 | **199.35** | - | - | - | - |
| 1-1/4 | 1-1/4 | 2 | 4-1/2 | 6 | 103264 | **137.39** | - | - | 104438 | **108.22** | - | - |
| 1-3/8 | 1 | 2 | 4-1/2 | 6 | 103265 | **157.12** | - | - | - | - | - | - |
| 1-1/2 | 1-1/4 | 2 | 4-1/2 | 4 | - | - | - | - | - | - | 103046 | **214.63** |
| 1-1/2 | 1-1/4 | 2 | 4-1/2 | 6 | 103267 | **181.62** | 104567 | **277.48** | 104442 | **156.04** | 103044 | **260.53** |
| 2 | 1-1/4 | 2 | 4-1/2 | 6 | 103269 | **286.37** | - | - | 104444 | **204.74** | - | - |

## Multi-Flute Extra Long Length HSCO

- Multiple helical flutes
- Centre cutting
- Single end with weldon shank



HSCO | BRIGHT | X-LONG LENGTH | 30°

Speeds & Feeds ➤ P. A40

| Cutting Dia. (in.) | Shank Dia. (in.) | Flute Length (in.) | Overall Length (in.) | Flutes | Code No. | Price $ |
|---|---|---|---|---|---|---|
| **Inch** | | | | | | |
| 1/4 | 3/8 | 1-3/4 | 3-9/16 | 4 | 103370 | **32.31** |
| 5/16 | 3/8 | 2 | 3-3/4 | 4 | 103371 | **35.30** |
| 3/8 | 3/8 | 2-1/2 | 4-1/4 | 4 | 103372 | **37.30** |
| 1/2 | 1/2 | 3 | 5 | 4 | 103373 | **48.24** |
| 5/8 | 5/8 | 4 | 6-1/8 | 4 | 103374 | **76.34** |
| 3/4 | 3/4 | 4 | 6-1/4 | 4 | 103375 | **92.79** |
| 7/8 | 3/4 | 5 | 7-1/4 | 4 | 103376 | **110.12** |
| 1 | 1 | 6 | 8-1/2 | 4 | 103377 | **155.51** |
| 1-1/4 | 1-1/4 | 6 | 8-1/2 | 6 | 103378 | **209.65** |
| 1-1/2 | 1-1/4 | 8 | 10-1/2 | 6 | 103378A | **380.48** |

## 4-Flute Double End Regular Length HSCO

Double end economy. Used for slabbing, shallow pocketing, tracer milling or die sinking and similar operations.



HSCO | BRIGHT | REG LENGTH | 30°

Speeds & Feeds ➤ P. A40

| Cutting Dia. (in.) | Shank Dia. (in.) | Flute Length (in.) | Overall Length (in.) | Code No. | Price $ |
|---|---|---|---|---|---|
| **Inch** | | | | | |
| 1/8 | 3/8 | 3/8 | 3-1/16 | 103379 | **29.01** |
| 3/16 | 3/8 | 1/2 | 3-1/4 | 103380 | **29.01** |
| 1/4 | 3/8 | 5/8 | 3-3/8 | 103381 | **29.01** |
| 5/16 | 3/8 | 3/4 | 3-1/2 | 103382 | **29.01** |
| 3/8 | 3/8 | 3/4 | 3-1/2 | 103383 | **29.01** |
| 1/2 | 1/2 | 1 | 4-1/8 | 103384 | **42.31** |
| 5/8 | 5/8 | 1-3/8 | 5 | 103385 | **72.80** |
| 3/4 | 3/4 | 1-5/8 | 5-5/8 | 103386 | **83.68** |
| 7/8 | 7/8 | 1-7/8 | 6-1/8 | 103387 | **111.97** |
| 1 | 1 | 1-7/8 | 6-3/8 | 103388 | **138.52** |