

Hard Wood Cutting Data Recommendations

HP

| Application | Good | Better | Best |
|-------------|---------------|---------------|---------|
| Single Pass | 52-200/57-200 | 60-300/60-350 | 60-100C |
| Roughing | 52-200/57-200 | 60-800/60-900 | 60-000 |
| Finishing | | 60-300/60-350 | 60-200 |

DEPTH OF CUT: 1 x D Use recommended chip load
 2 x D Reduce chip load by 25%
 3 x D Reduce chip load by 50%

Recommended Chip Load per Tooth by Cutting Diameter (in)

| Series | Cut | 1/16 | 3/32 | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | |
|---------------|---------|-----------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|------------|-------|-------|---|-------------|
| 37-00/37-20 | Varies | | | | | | | .004-.006 | | | | | | | | | | | | | | | |
| 37-50 | 1/2 CED | | | | | .003-.006 | | .003-.006 | | .003-.006 | | | | | | | | | | | | | |
| 37-60 | 1/2 CED | | | | | | | | | .004-.006 | | .004-.006 | | | .006-.008 | | .008-.010 | | | | | | |
| 37-80 | Varies | | | | | | | | | | | | | | | | .004-.006 | | .004-.006* | | | | .004-.006** |
| 40-50 | 1 1/2 | | | | | | | | | | | .003-.005 | | | | | | | | | | | |
| 40-000 | 1 x D | | | .006-.008 | .006-.008 | .007-.009 | | .008-.010 | .008-.010 | .009-.007 | | | | | | | | | | | | | |
| 40-100 | 1 x D | | | .004-.006 | | .005-.007 | .005-.007 | .005-.007 | .006-.008 | .006-.008 | | .007-.009 | | | .009-.011 | | | | | | | | |
| 48-000 | 1 x D | | | | | .004-.006 | | .005-.007 | .005-.007 | .005-.007 | | .006-.008 | | .007-.009 | .008-.010 | .009-.011 | .010-.012 | | | | | | |
| 52-200/57-200 | 1 x D | | | .003-.005 | .003-.005 | .004-.006 | .004-.006 | .005-.007 | .005-.007 | .006-.008 | .006-.008 | .007-.009 | .007-.009 | .008-.010 | .009-.011 | | | | | | | | |
| 52-700 | 1 x D | | | .002-.004 | | .003-.005 | | .004-.006 | | .005-.007 | | .006-.008 | | .007-.009 | .008-.010 | | .009-.011 | | | | | | |
| 57-200MD | 1 x D | | | | | | | .009-.011 | | .010-.012 | | .011-.013 | | | | | | | | | | | |
| 52-400/57-400 | 1 x D | | | | .004-.006 | .004-.006 | | .005-.007 | .005-.007 | .006-.008 | | .007-.009 | | | | | | | | | | | |
| 52-900 | 1 x D | | | | | | | .006-.008 | | .007-.009 | | .007-.009 | | | | | | | | | | | |
| 56-200 | 1 x D | | | .003-.005 | .003-.005 | .004-.006 | .004-.006 | .005-.007 | .005-.007 | .006-.008 | | .007-.009 | | | .009-.011 | | | | | | | | |
| 57-900 | 1 x D | | | | | | | .005-.007 | | .006-.008 | | .007-.009 | | | | | | | | | | | |
| 60-000 (LH) | 1 x D | | | | | | | | | .013-.015 | | .014-.016 | | .016-.018 | .017-.019 | | | | | | | | |
| 60-000 (HH) | 1 x D | | | | | | | | | .015-.017 | | .017-.019 | | .019-.021 | .021-.023 | | | | | | | | |
| 60-090 | 1 x D | | | | | | | | | | | | | .005-.007 | | | | | | | | | |
| 60-100MW | 1 x D | | | .010-.012 | | .012-.014 | | .014-.016 | | .016-.018 | | .018-.020 | | .020-.022 | .022-.024 | | | | | | | | |
| 60-100C | 1 x D | | | | | | | | | .019-.021 | | .021-.023 | | .023-.025 | .025-.027 | | | | | | | | |
| 60-100MC | 1 x D | | | | | | | | | .019-.021 | | .021-.023 | | | | | | | | | | | |
| 60-100PLR | 1 x D | | | | | | | | | .021-.023 | | .023-.025 | | | | | | | | | | | |
| 60-200 | 1 x D | | | | | | | .005-.007 | | .006-.008 | | .007-.009 | | | .008-.010 | | | | | | | | |
| 60-300 | 1 x D | | | | | | | | | .024-.026 | | .026-.028 | | .028-.030 | .030-.032 | | | | | | | | |
| 60-350 | 1 x D | | | | | | | | | .018-.020 | | .020-.022 | | .022-.025 | .024-.026 | | | | | | | | |
| 60-600 | 1 x D | | | | | | | | | | | .018-.020 | | | .022-.024 | | | | | | | | |
| 60-700 | 1 x D | | | | | | | | | | | .018-.020 | | .020-.022 | .022-.024 | | | | | | | | |
| 60-800 | 1 x D | | | | | | | | | .017-.019 | | .019-.021 | | .021-.023 | .023-.025 | | | | | | | | |
| 60-900 | 1 x D | | | | | | | | | .015-.017 | | .017-.019 | | .019-.021 | | | | | | | | | |
| 60-950 | 1 x D | | | | | | | | | .019-.021 | | .021-.023 | | | | | | | | | | | |
| 61-200 | 1 x D | | | .007-.009 | | | | .009-.011 | .009-.011 | .010-.012 | | | | | | | | | | | | | |
| 63-200 | 1 x D | | | .003-.005 | | | | .005-.007 | | | | | | | | | | | | | | | |
| 64-000/65-000 | 1 x D | .001-.003 | | .002-.004 | | .003-.005 | | .004-.006 | | .005-.007 | | | | | | | | | | | | | |
| 68-100 | 1 x D | | | | | | | | | .010-.012 | | .011-.013 | | .012-.014 | .013-.015 | | | | | | | | |
| 77-100 | 1 x D | | | .003-.005 | | | | .005-.007 | | | | | | | | | | | | | | | |

* = 16,000 RPM

** = 15,000 RPM

FORMULAS: Chip Load = Feed Rate / (RPM x # of cutting edges)
 Feed Rate (IPM) = RPM x # of cutting edges x chip load
 Speed (RPM) = Feed Rate / (# of cutting edges x chip load)

DEFINITIONS: IPM = Inches Per Minute