After milling, parts typically come off the machine and head over to the Deburring Department to remove those pesky burrs that occur during the machining process. Hand-deburring operations can be very costly, both in time and money. An operation that takes an hour off-line can be reduced to minutes by deburring a part in the machine with high-precision cylindrical and conical CNC Burs. Traditional cylindrical burs typically have a diameter-tolerance window of +/- .008” versus a CNC cylindrical bur which has a diameter tolerance of +/- .0005”. The tighter tolerance design eliminates the location issues found in traditional burs with loose tolerances, allowing them to be programmed like an end mill. Deburring in the machine is highly repeatable, reduces overall cycle time and allows for more productive and efficient finishing of the part. With this in mind, Harvey Tool has CNC burs as small as .015”.

CNC BURS VERSUS TRADITIONAL BURS:

- CNC Burs are far superior to traditional burs
  - CNC Burs are high-precision burs allowing use of standard CNC programming and tool paths
    - Diameter tolerances are +/- .0005” and angle tolerances are +/- 1°
    - Traditional Burs have large dimensional tolerance windows
  - CNC Burs have a double-cut pattern and a high number of flutes Resulting in better finishes and increased speeds and feeds
  - Cylindrical CNC Burs are available down to a .015” diameter and are ideal for small diameter deburring
  - CNC Conical Burs are designed for deburring the top of a part or adding a small controlled edge break
- Using your CNC machine for deburring will:
  - Increase efficiency
    - Complete parts in one machining operation
    - Avoid involving multiple departments
  - Reduce labor and overall productions costs
    - Shorten cycle times
    - Reduce scrap rates
  - Improve quality with tighter tolerances
    - Consistent and controlled edge breaks
    - Better finish
  - Increase Profitability

Please see the next page for a list of Harvey Tool’s deburring solutions.
DEBURRING SOLUTIONS:

Harvey Tool offers an extensive variety of deburring solutions as **standard tools, in stock, and ready to ship today!** Many times there are limitations to hand-deburring associated with the part. In these instances, deburring in the machine is a preferred solution. In addition to the industry’s first CNC Bur, Harvey Tool has a variety of solutions for awkward-part orientation, deep cavities, overhangs, undercuts, narrow slots, cross-holes or delicate parts where hand deburring can harm the parts. Taking one extra pass with a very light depth of cut, also known as a “spring pass”, can significantly reduce off-line operations and increase manufacturing efficiency. With a large offering of profiles, reaches, and sizes, your deburring solution is only a catalog away. Check out Harvey Tool’s latest offering today.

For additional information or technical assistance, please contact Harvey Tool at 800-645-5609 or tech@harveytool.com.

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