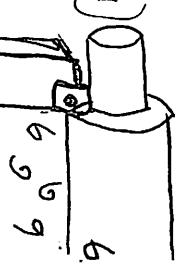


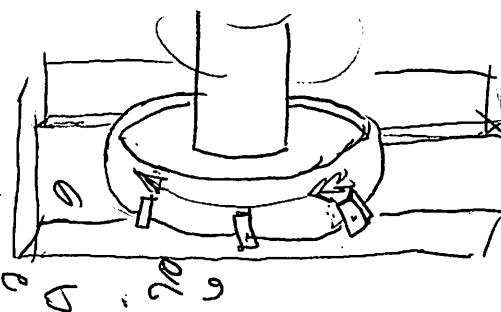
Portuguese Cutting Feed

The perspective of "CHIP LOAD PER CUTTING EDGE" in terms of Distance/Revolution. THAT WAY YOU CAN HANDLE CUTTING FEED RATES FOR SINGLE POINT TURNING ON A LATHE OR MILLING CUTTERS THAT HAVE MULTIPLE CUTTING EDGES THAT REMOVE MATERIAL EACH TIME THE TOOL ROTATES IN FEED.

Example: Lathe



CHIP LOAD SORT OF POINTS TO LATHE WORK. IT IS USUALLY PROGRAMMED IN .000/REV ALREADY AND THAT WOULD BE WITH RESPECT TO A SINGLE CUTTING EDGE. IN THIS CASE, IF THE FEED RATE IS .008 IPR (INCHES/PER REV) THEN THAT IS THE CHIP LOAD ON THE INSERT.



Example: Machining Center

Many Machining Centers feed rates are programmed in "INCHES PER MINUTE". IT IS IMPORTANT TO UNDERSTAND THIS OUT FRONT. IN IPM mode (inches per minute) IF YOU REDUCE THE SPINDLE RPM, THE TOOL IS STILL FEEDING AT THE SAME SPEED SO CHIP LOAD INCREASES. AT THE SAME SPEED SO CHIP LOAD INCREASES: (Follow example below)

IF YOU WANT TO SEE WHAT THE CHIP LOAD PER CUTTING EDGE IS: (Follow example below)

* A 4" FACEWILL WITH 6 CUTTING INSERTS IS PROGRAMMED TO 716 RPM & 25 INCHES PER MINUTE:

- 1st Convert IPM to IPR: $IPM * RPM = IPR$ So $IPM / RPM = IPR$: $25 \text{ IPM} / 716 \text{ RPM} = .035 \text{ IPR}$
- 2nd THERE ARE 6 CUTTING INSERTS SO CHIP LOAD IS $.035 / 6$ OR .0058 INCHES PER REV PER TOOTH.