王	\geq	6.	5.	4.	$\dot{\omega}$		2.	-
FINAL GRADE	Major dia +/	Finally, part off at live center slightly both ends smooth treating.	Check point #5 Set the compound lathe you are using off in the middle comove the cross fee	Check point #4_ Starting between s 1/2" line on every p use your microme	Check point #3 Start the knurl on sat the 4" mark. Cl until satisfied. Re	you don't cut too much. smooth. Die the entire s the plan. Set the machin	Check point #1_ Using the HSS too and the gearbox seYou need	Cut a piece of 5 headstock with 3/4 face the other end. inside the jaws and hermaphrodite cal
+/-	. +/ Minor dia +/ Lengths	Finally, part off at the end of section E. Use back gears and cutting oil. Just before the piece cuts through, relieve pressure on the live center slightly so that the piece will fall. Set the work up in a vice with soft jaws and using a hacksaw, saw off section A. File both ends smooth and square so that they stand on the ways of the lathe without falling. See instructor about finishing and heat treating.	d rest to cut a 10 degree chamfer on the end of section E. This ming. Once the compound rest is set, re-square the tool post to the of section E. Cut in using the compound rest until you come to feed in to touch again and feed the compound rest in again until y	n section A and B at the ½" mark, turn down section B to a diamer pass and when you have reached the desired diameter, cut in the neter to check yourself every 1 to 2 passes. This diameter must b	Check point #3 Start the knurl on section B to check for proper alignment. Once alignment is obtained, continue the knurl across section C, stopping at the 4" mark. Check the knurl, if it needs to go deeper, set the machine to reverse and run back to the start of the knurl. Repeat until satisfied. Remove knurler and clean out the wheels. Take the machine out of back gears and set up the HSS tool to turn.	much. The last few passes should be .005" to .010" each. When entire section with Dykem and spin until dry. Use the hermaphr machine in a low rpm or back gears if possible and set up the kr	Check point #1 Using the HSS tool and the universal tool holder set the machine to turn. You want the long feed set to move toward the headstock and the gearbox set as close to .005" per revolution as possible. You are starting at 5/8" diameter. What is that in decimal? You need to turn the major diameter to .500" taking no more than .020" off in one pass. How many passes will this take	Cut a piece of 5/8" diameter cold rolled round stock to 6" on the band saw. Be sure the coolant is running. Chuck the piece in the headstock with 3/4" sticking out. Using the HSS cutting tool and the universal tool holder face one end of the work and then flip and face the other end. Center drill this end with a #3 to #5 center drill. Loosen the 3 jaw chuck and extend the piece out so that 3/4" is inside the jaws and the rest is hanging out. Insert the live center in the tailstock and tighten on the right side of the work. Using the hermaphrodite calipers, mark out a line over 4 ½" inches from the right side. This is our stop point for turning the major diameter.
		cuts through, relieve pressure on the ng a hacksaw, saw off section A. File instructor about finishing and heat	nay be 10 degrees or 80 degrees depending on the work. Set the cross feed up so that the tool touches the 4 ½" mark then back the compound rest out, ou reach the 4 5/16" line and the section is tapered.	ter of .311". Stop the tool about .010" before the 1 extra .010" to square up the shoulder. Be sure to e within +/002". File any rough edges smooth.	nue the knurl across section C, stopping back to the start of the knurl. Repeat s and set up the HSS tool to turn.	with the micrometer along the way to ensure that n you are within +/005" file any rough spots odite calipers to mark off the sections according to nurling tool on the universal tool holder.	ant the long feed set to move toward the headstock g at 5/8" diameter. What is that in decimal? off in one pass. How many passes will this take?	sure the coolant is running. Chuck the piece in the I holder face one end of the work and then flip and jaw chuck and extend the piece out so that ³ / ₄ " is nd tighten on the right side of the work. Using the s is our stop point for turning the major diameter.