

MACHINE SHOP PRACTICE

DRILL PRESS STANDARD OPERATIONS



DRILLING

PRODUCING A HOLE BY REMOVING METAL FROM A SOLID MASS USING A CUTTING TOOL CALLED TWIST DRILL

COUNTERSINKING

PRODUCING A TAPERED OR CONE-SHAPED ENLARGEMENT TO THE END OF A HOLE

REAMING

SIZING AND PRODUCING A SMOOTH ROUND HOLE FROM A PREVIOUSLY DRILLED

SPOT-FACING

SMOOTHING AND SQUARING THE SURFACE AROUND A HOLE TO PROVIDE A SEAT FOR THE HEAD OF A CAP SCREW OR A NUT

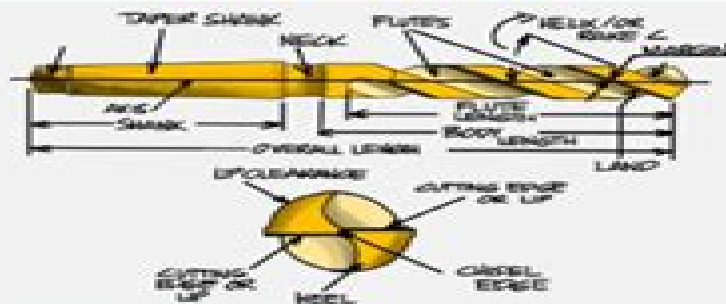
TAPPING

CUTTING INTERNAL THREADS IN A HOLE WITH A CUTTING TOOL CALLED A TAP

COUNTERBORING

ENLARGING THE TOP OF A PREVIOUSLY DRILLED HOLE TO A GIVEN DEPTH TO PROVIDE A SQUARE SHOULDER FOR THE HEAD OF A BOLT OR A CAP SCREW

TWIST DRILL PARTS



CUTTING SPEED

$$V = \pi D N$$

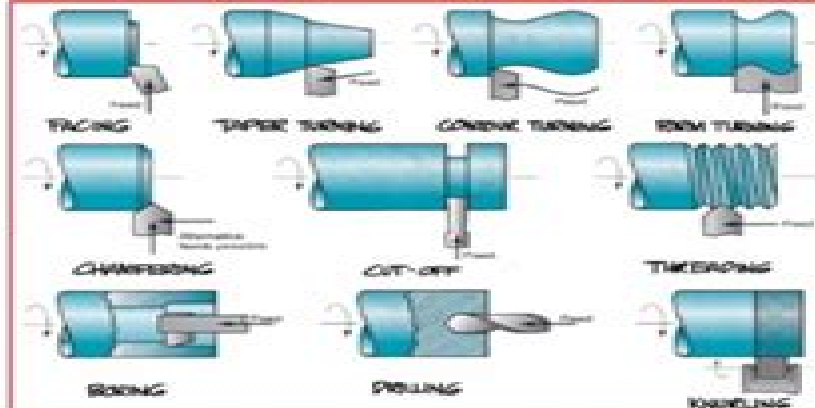
D = DIAMETER, ft
 N = SPEED, rpm

CUTTING TIME FOR TURNING, BORING, AND FACING

$$T = \frac{L}{fN}$$

f = FEED RATE, in/rev
 N = LATHE SPINDLE SPEED, rpm

LATHE STANDARD OPERATIONS



TAPER CALCULATIONS

$$TAPER = \frac{LARGE\ \phi - SMALL\ \phi}{TAPER\ LENGTH}$$

CUTTING TOOL



MILLING CUTTERS

$$T = \frac{6.3D}{W} = \frac{12.6D \cos A}{D + d}$$

D = CUTTER ϕ , in. T = NUMBER OF TEETH d = DEPTH OF CUT, in.
 W = WIDTH OF CUT, in. A = HELIX $\angle$ OF CUTTER

MILLING MACHINE FEED RATE

$$f_m = f_t \times n_t \times N$$

f_t = MILLING MACHINE FEED RATE, in/rev
 n_t = FEED RATE, in/rev
 N = NUMBER OF TEETH
 N = SPEED, rpm

PLANNING TIME

$$T = \frac{W}{L} \left[L \times \left(\frac{1}{V_c} + \frac{1}{W} \right) + 0.025 \right]$$

T = TIME, min. L = LENGTH OF STROKE, ft
 W = WIDTH OF SURFACE, in. V_c = CUTTING SPEED, ft/min
 V_c = CUTTING SPEED, ft/min

Machine Shop Procedure Manual

Camilla Rothe



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