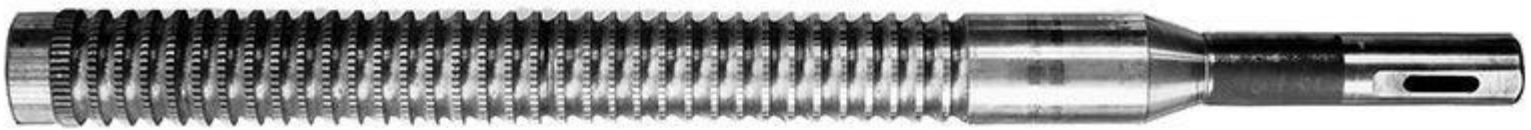
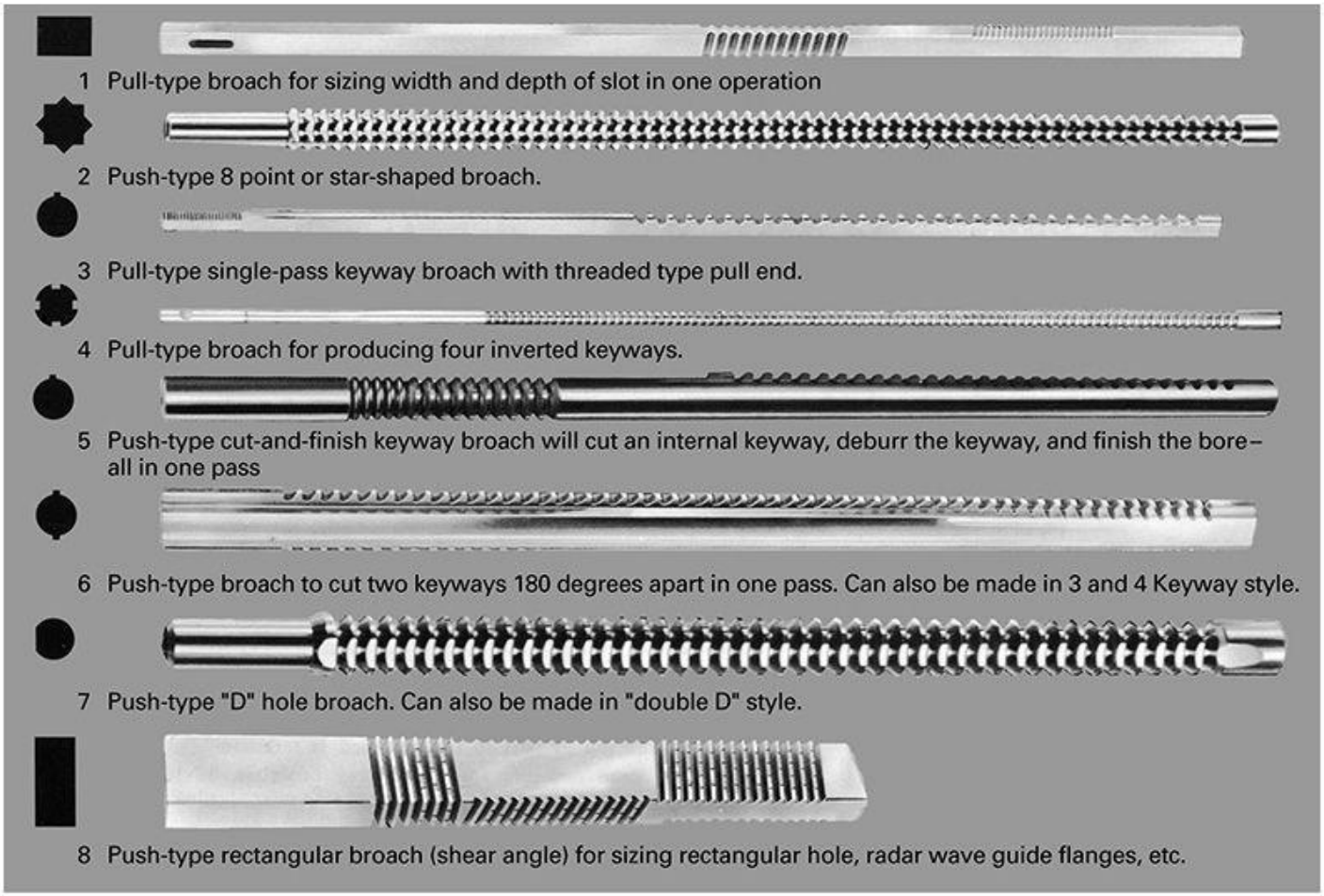
Sawing, Broaching, and Other


Watch Video Here

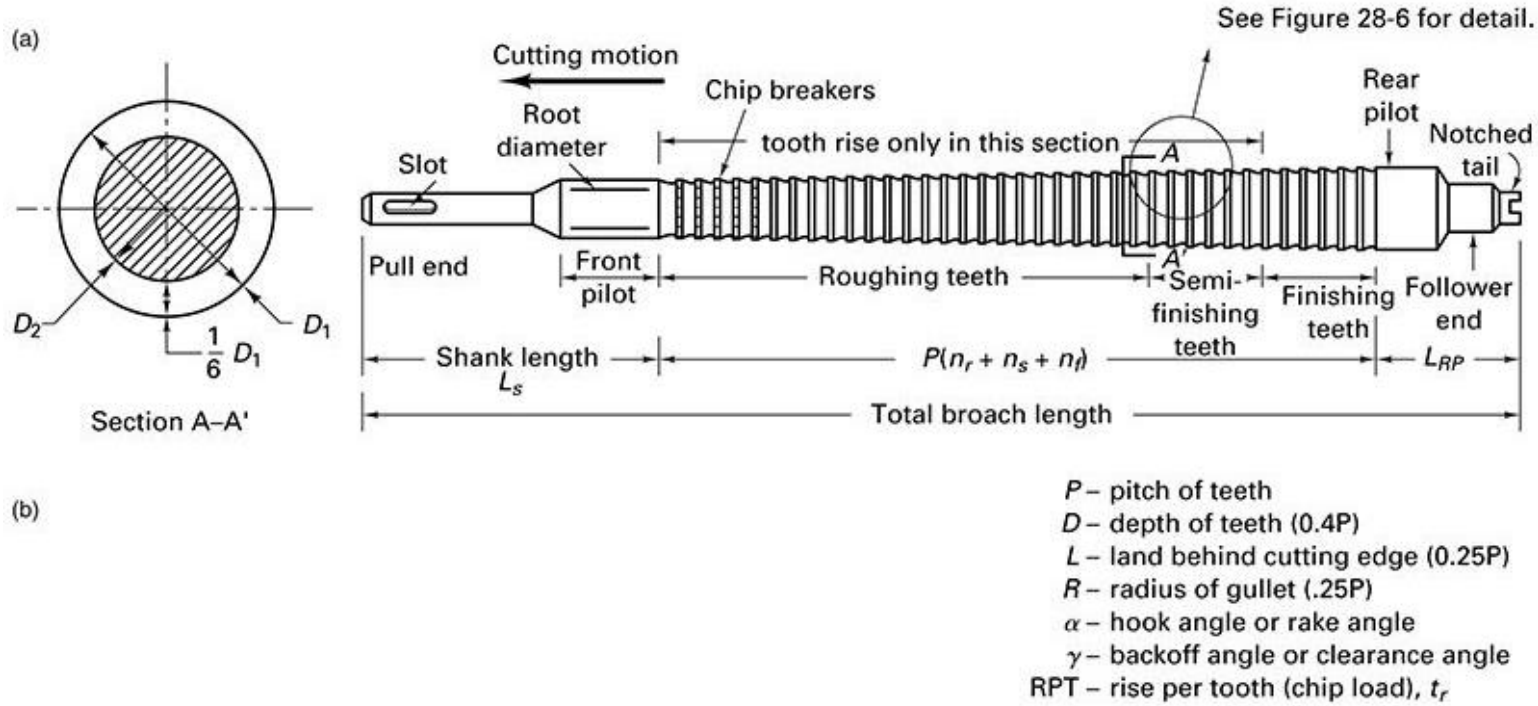
Broach



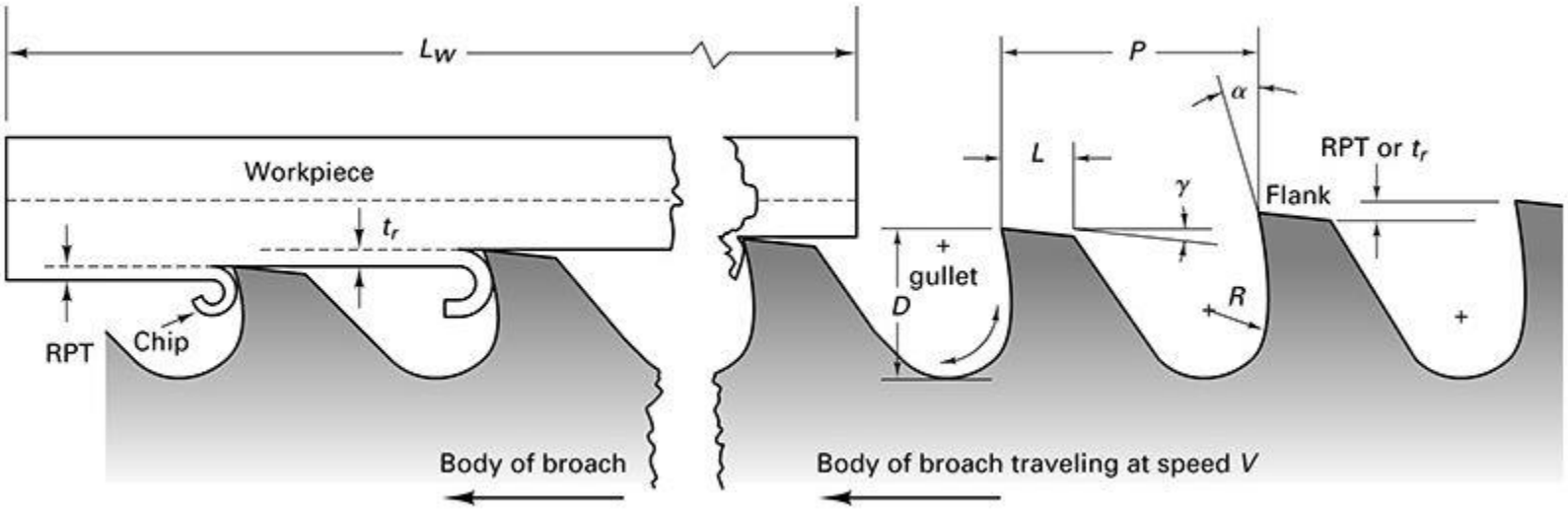
Shapes possible with Broaching



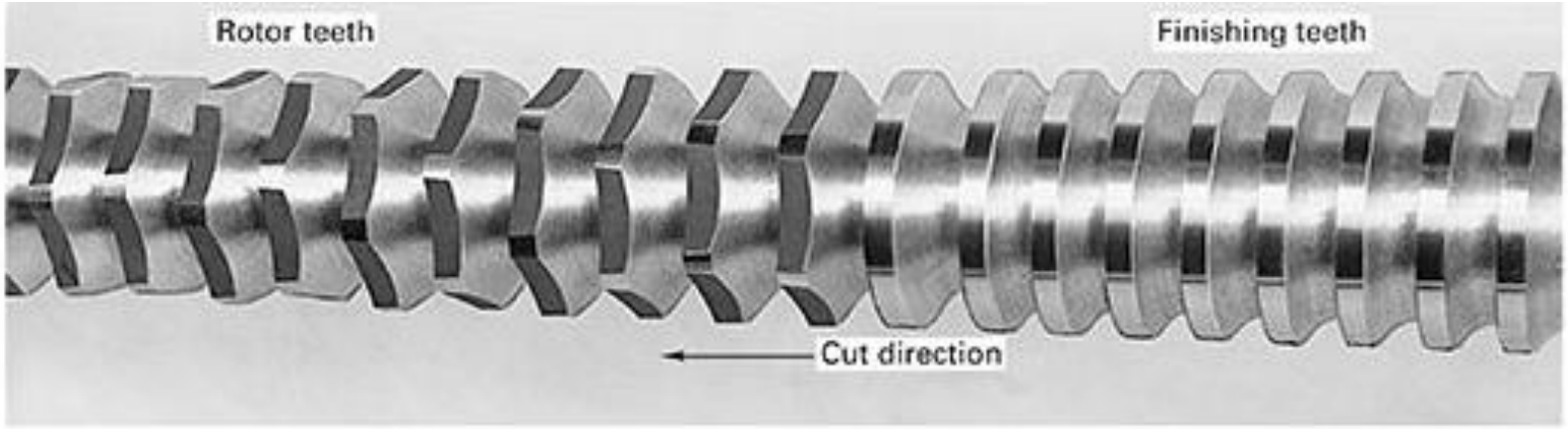
Broach for circular hole



Cutting process with broach



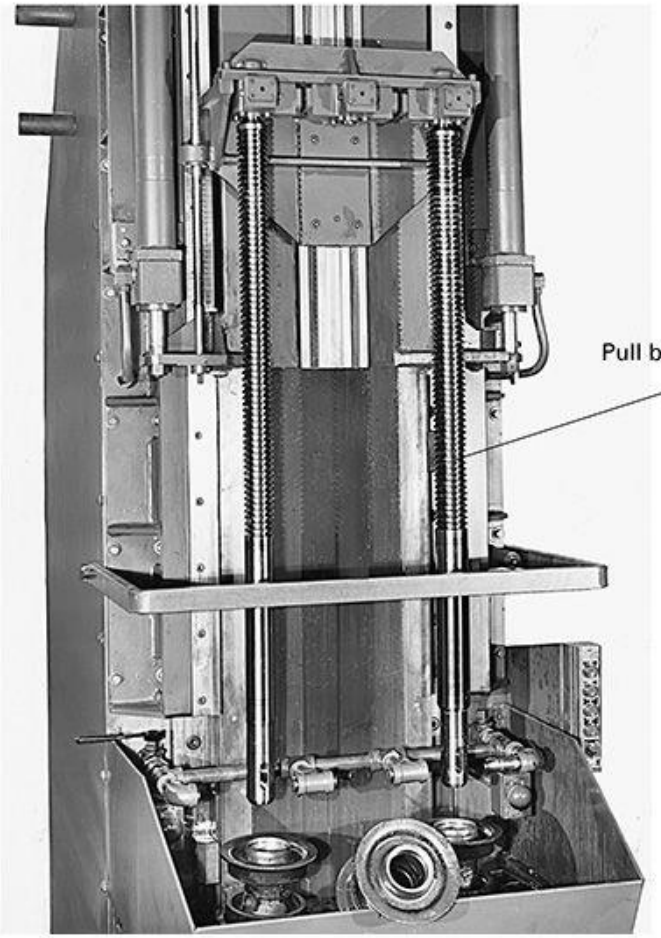
Chip-breaking methods

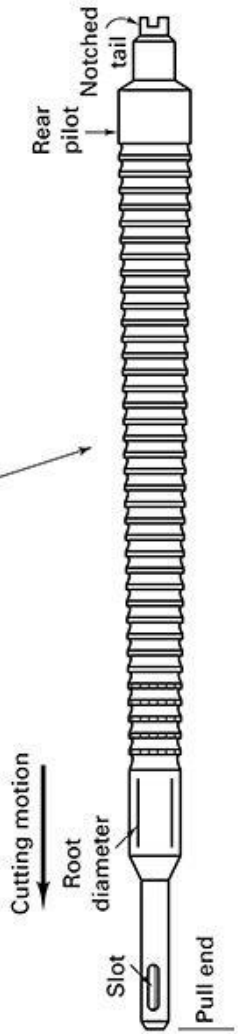


(a) Rotor- or jump-tooth broach design.

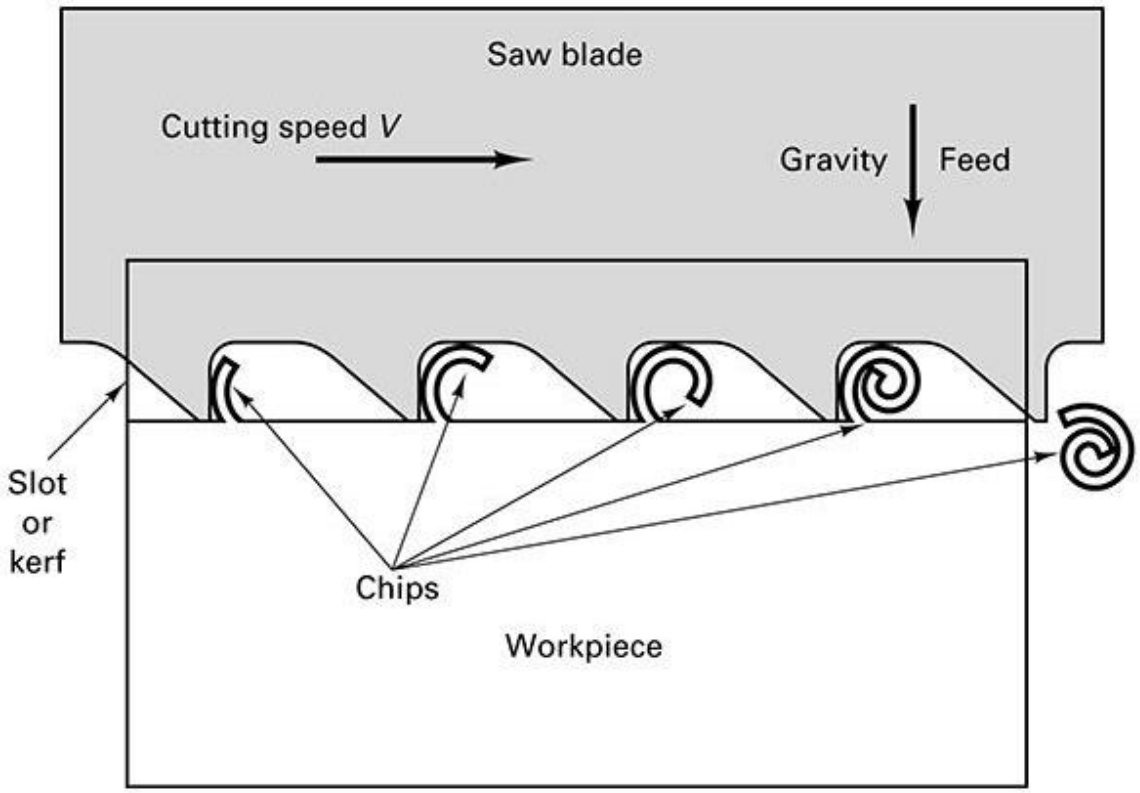
(b) Round, push-type broach with chip-breaking notches on alternate teeth except at the finishing end.

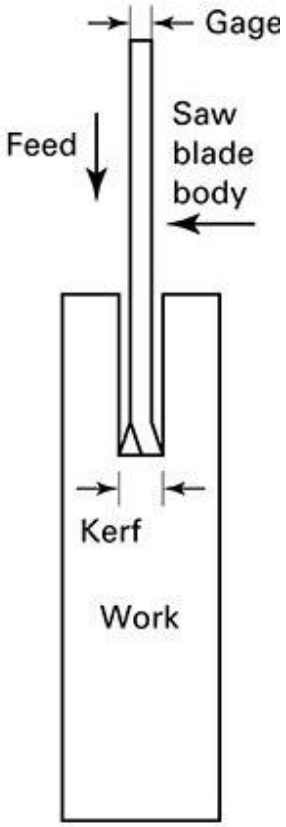
Broaching Machine



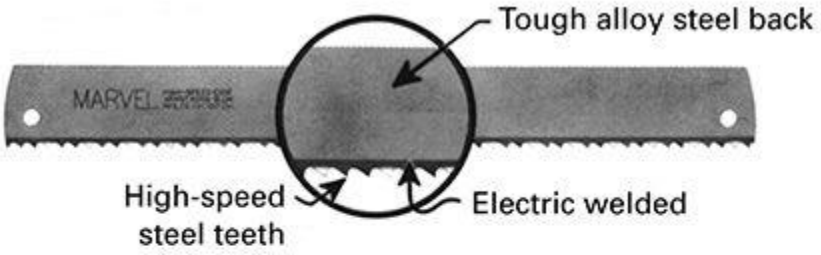


Sawing Action

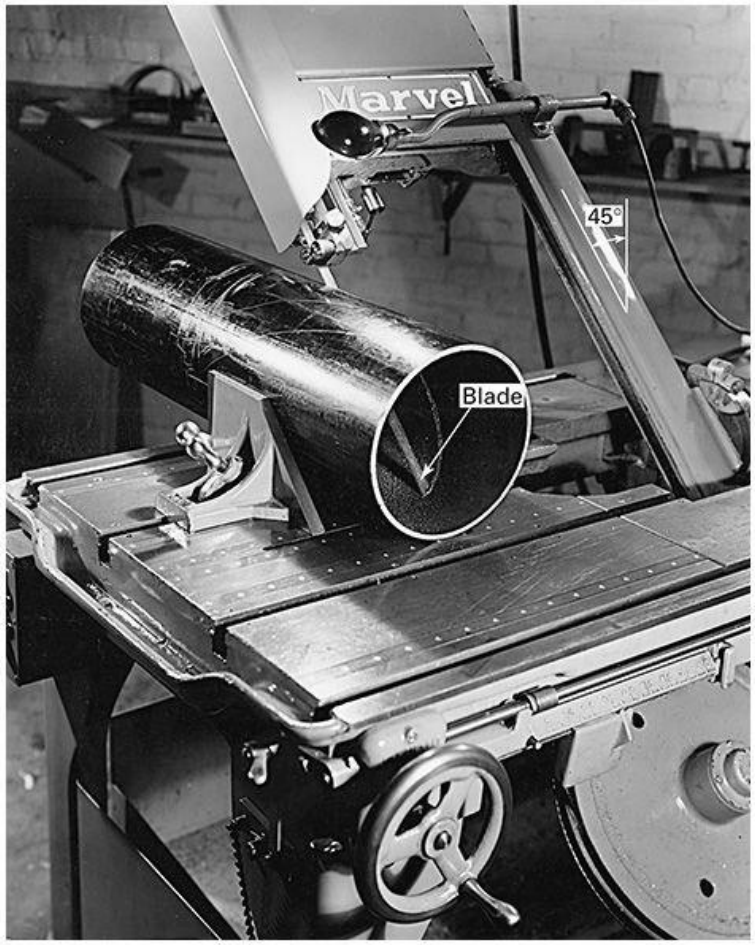




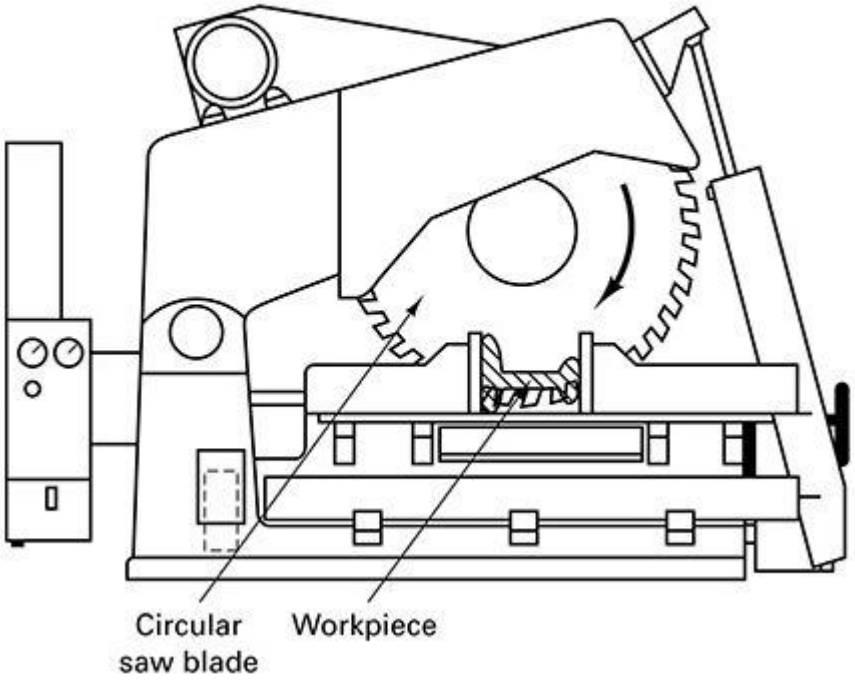
Power Hacksaw

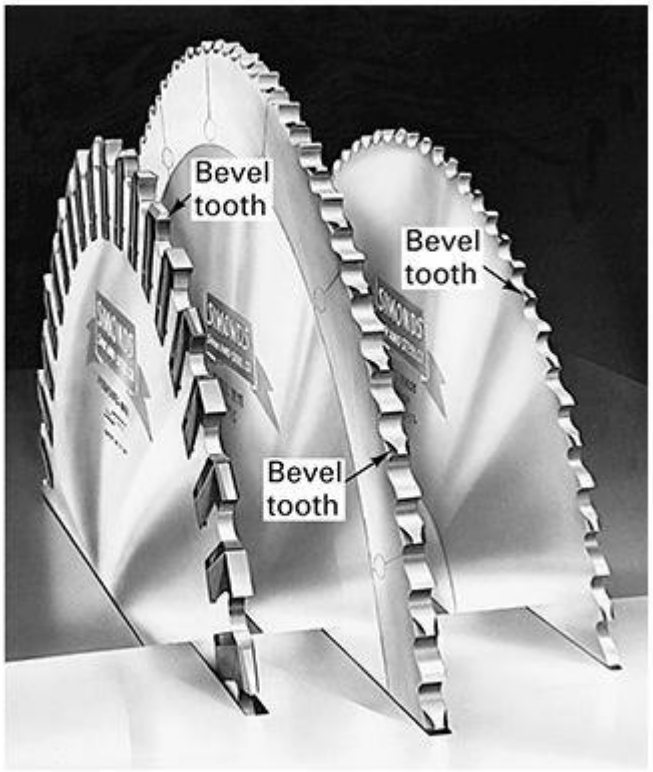


Bandsaw



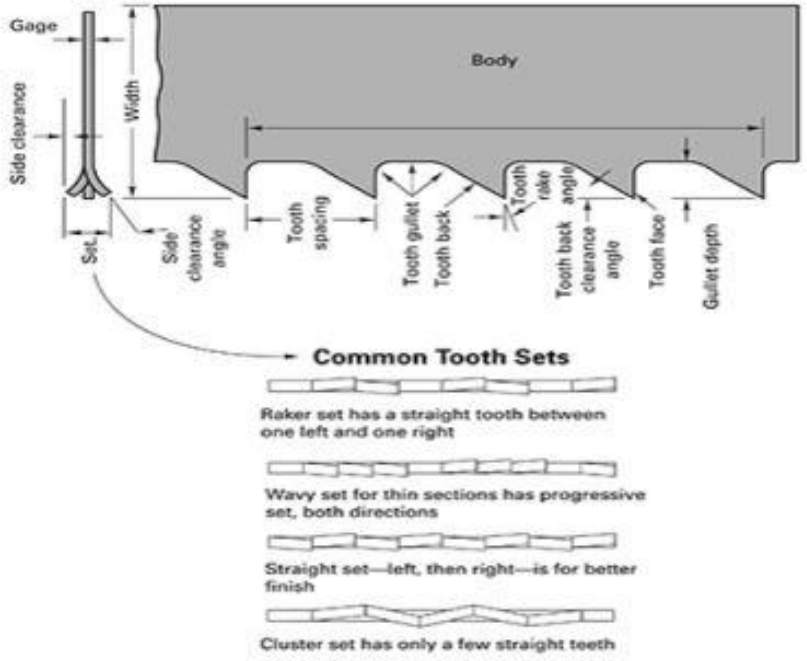
Circular Saw

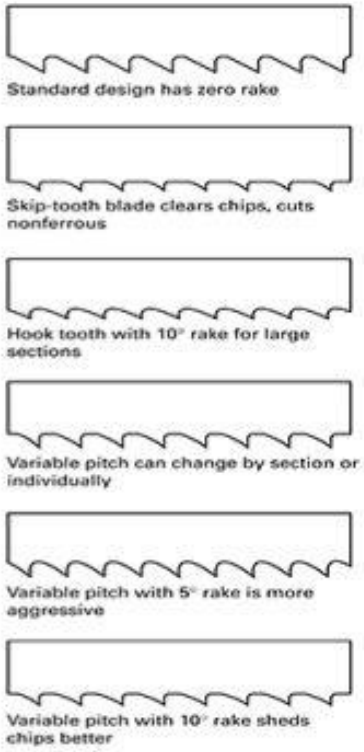




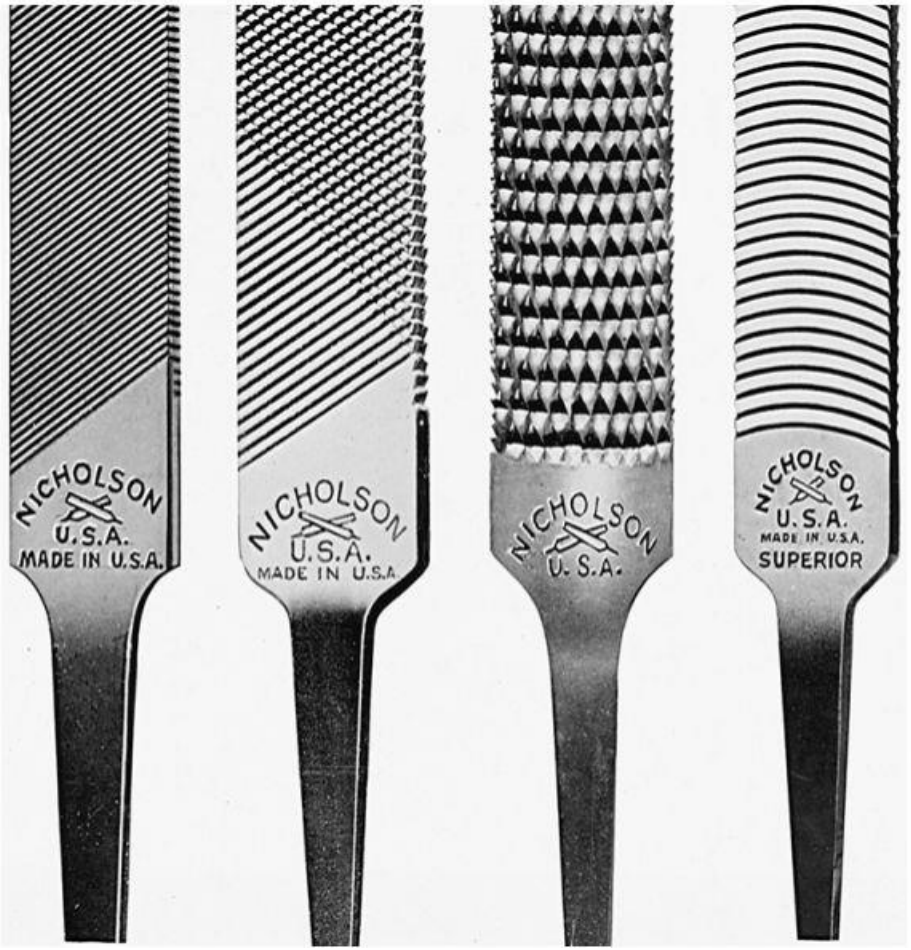
Blade designs and nomenclature

MATRIX MODIFIED MIX-TOOTH	M-42 COBALT WELDED-EDGE	M-2 HIGH-SPEED WELDED-EDGE	HARD BACK CARBON	FLEXIBLE BACK CARBON
The best all-purpose welded-edge blade for sawing varying sizes, shapes, and cross sections. Cobalt-tough for cutting wide range of materials. Welded to length and coil stock.	For high-production cutting of solids, superalloys, tool steels, high-temperature alloys. Welded to length and coil stock.	The original and widely used welded-edge band blade for general-purpose sawing. Welded to length and coil stock.	Hardened back provides greater beam strength for more accurate sawing. Welded to length and coil stock.	Recommended for contour saws running over 3000 SFPM. Welded to length and coil stock.





File Types


NICHOLSON
U.S.A.
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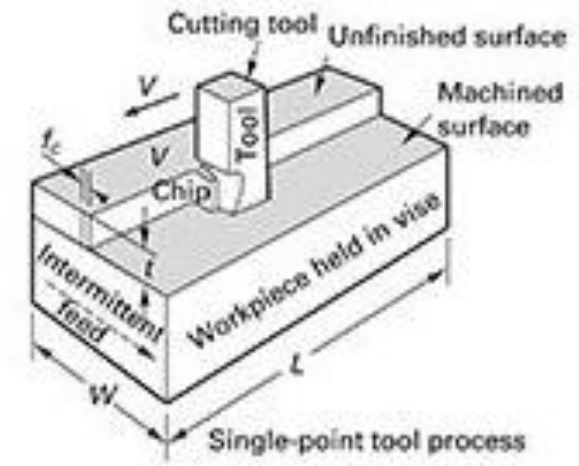
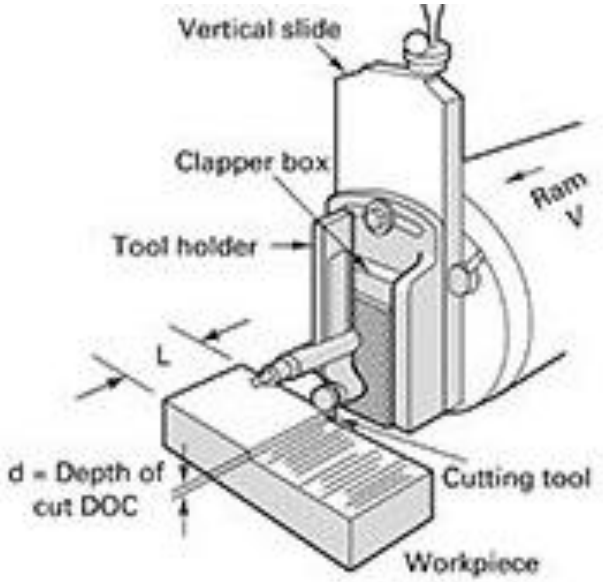
SUPERIOR

Shaping/Planing Process



(a) Basic geometry for shaping and planing



(c) Shaper tool holder, clapper box and workpiece

Surface types machined by shaping and planing