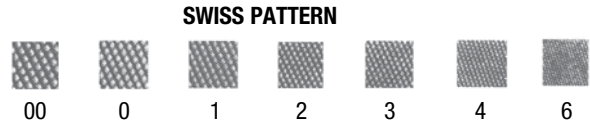


TECH INFORMATION

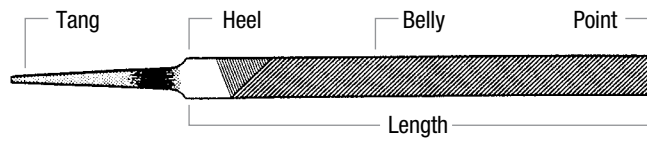
File Terminology

COARSENESS



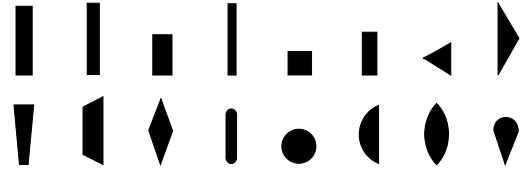
- Work to be accomplished, whether roughing or finishing, will determine type of teeth and coarseness for each application
- Most American pattern files are available with 3 grades of cut: bastard-cut, second-cut and smooth-cut
- Swiss pattern files are available in seven cuts: No. 00, 0, 1, 2, 3, 4, and 6
- The degree of coarseness is greater in longer files, but differences between bastard, second and smooth are proportionate

LENGTH



- Length is measured exclusive of tang, from point to heel, unless specified otherwise
- Desired stroke length, type of material and size will determine length required

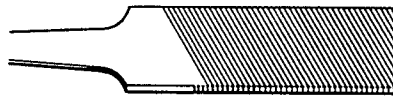
SHAPE



- Area to be filed will determine specific cross-section (round, square, flat, etc.) to be used

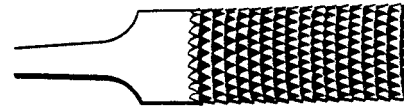
Kinds of Teeth

SINGLE-CUT



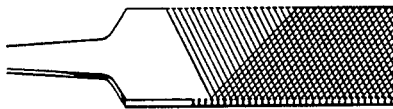
- Single set of parallel, diagonal rows of teeth
- Single-cut files are often used with light pressure to produce a smooth surface finish or to put a keen edge on knives, shears or saws

RASP-CUT



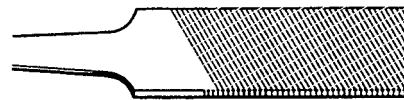
- Series of individual teeth which are formed by a single-pointed tool
- Produces a rough cut that is used primarily on wood, hooves, aluminum and lead

DOUBLE-CUT



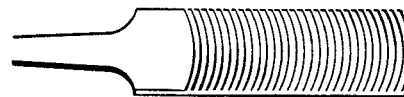
- 2 sets of diagonal rows of teeth
- Second set of teeth cut in opposite diagonal direction and on top of the first set
- First set of teeth is known as the overcut, second is known as upcut
- Upcut is finer than overcut
- Double-cut file is used with heavier pressure than the single-cut and removes material faster from the workpiece

MAGICUT®



- Single cut teeth divided by angular serrations into shorter cutting edges, which free themselves readily from chips and perform roughing and smoothing at the same time

CURVED-CUT



- Teeth arranged in curved contours across the file face
- Curved-cut file is normally used in automotive body shops for smoothing body panels

Safety Information

	⚠ WARNING
	Wear safety goggles to protect your eyes. Never use a file without a tight fitting handle.
	⚠ AVERTISSEMENT
	Porter des lunettes de protection. Ne jamais utiliser une lime sans poignée bien ajustée.
	⚠ ADVERTENCIA
	Use gafas de seguridad para proteger sus ojos. Nunca utilice una lima con el mango suelto.

⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
Risk Of Eye Injury Wear ANSI Approved Eye Protection	Risque de dommages d'oeil Protection d'oeil approuvée de l'usage A.N.S.I.	Riesgo de lesión del ojo Protección de ojo aprobada del desgaste ANSI

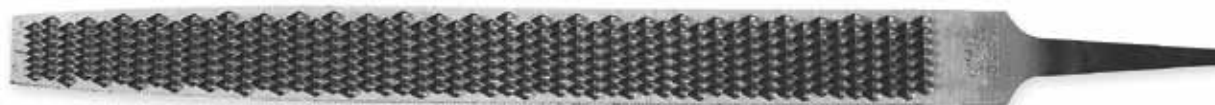
Woodcraft Rasp - Half Rasp, Half File



- American pattern woodcraft rasp, half rasp, half file
- Ideal for use in woodworking plants
- Also by professional carpenters, hobbyists and DIY enthusiasts
- Half-round rasp side for rapid stock removal
- File cut side for smoothing purposes
- For use on wood, leather, soapstone and soft metals
- 8"/200mm length is exclusive of handle

Cat. No.	UPC No.	Packaging	Length	File Cut	Product Weight	Shelf Pack Qty.
18617N	037103219749	Boxed	8 in	Rasp Punch/Wood	0.50 lb	6
23859N	037103219879	Carded	8 in	Bastard	0.60 lb	6

Wood Rasps - Flat Bastard



- American pattern wood rasp, flat bastard
- Used by woodworkers, hobbyists and plumbers
- For use on wood and soft metals
- Flat shape
- Bastard cut

Cat. No.	UPC No.	Packaging	Length	File Cut	Product Weight	Shelf Pack Qty.
19136N	037103219695	Boxed	10 in	Bastard	0.65 lb	6

Wood Rasps - Half Round



- American pattern wood rasp, half round, bastard cut, red handle
- Used by woodworkers, hobbyists and plumbers
- Half-round shape
- Single cut file teeth on edge
- For use on wood and soft metals

Cat. No.	UPC No.	Packaging	Length	File Cut	Handled	Product Weight	Shelf Pack Qty.
19394N	037103219633	Boxed	8 in	Bastard	No	0.25 lb	12
21749HN	037103219053	Carded	8 in	Bastard	Yes	0.42 lb	6
21878N	037103219718	Carded	8 in	Bastard	No	0.30 lb	6
19427N	037103219657	Boxed	10 in	Bastard	No	0.65 lb	6
19460N	037103219664	Boxed	12 in	Bastard	No	0.90 lb	6
19493N	037103219732	Boxed	14 in	Bastard	No	1.40 lb	6