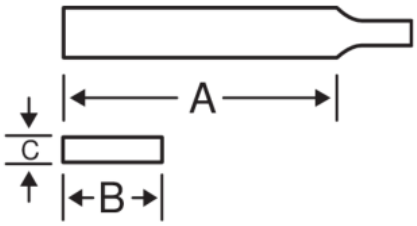


ERGO™ Engineering Flat Hand Files Bastard/Second/Smooth Cut 1-100...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- For high-alloy tool steel and sharpening of heavy implements
- Deburrs and files flat surfaces, sharp corners and shoulders
- Shape: Edges and surfaces parallel
- Type of cut: 1 = Bastard, 2 = Second, 3 = Smooth
- Surfaces double cut, one edge uncut, other edge single cut
- High removal rate

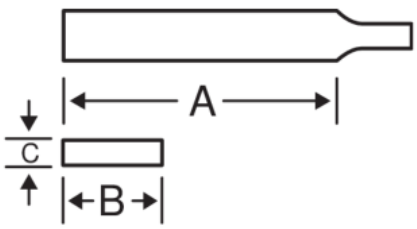


Product	A	B	C	T/cm	
1-100-04-1-2	100 mm	12 mm	3 mm	15	1
1-100-04-2-2	100 mm	12 mm	3 mm	21	2
1-100-06-1-2	150 mm	16 mm	4 mm	12	1
1-100-06-2-2	150 mm	16 mm	4 mm	17	2
1-100-06-3-2	150 mm	16 mm	4 mm	24	3
1-100-08-1-2	200 mm	20 mm	5 mm	10	1
1-100-08-2-2	200 mm	20 mm	5 mm	15	2
1-100-08-3-2	200 mm	20 mm	5 mm	21	3
1-100-10-1-2	250 mm	25 mm	5.5 mm	9	1
1-100-10-2-2	250 mm	25 mm	5.5 mm	12	2
1-100-10-3-2	250 mm	25 mm	5.5 mm	17	3
1-100-12-1-2	300 mm	30 mm	6 mm	7	1
1-100-12-2-2	300 mm	30 mm	6 mm	10	2
1-100-12-3-2	300 mm	30 mm	6 mm	15	3



ERGO™ Engineering Tapered Edge Flat File Bastard/Second/Smooth Cut 1-110...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- Shape: Edges tapered towards tip, surfaces parallel
- Type of cut: 1 = Bastard, 2 = Second, 3 = Smooth
- Surfaces double cut, edge single cut
- Tapered shape for easier access into angles and corners

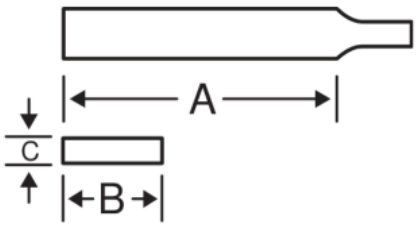


Product	A	B	C	T/cm	
1-110-06-1-2	150 mm	16 mm	4 mm	12	1
1-110-06-2-2	150 mm	16 mm	4 mm	17	2
1-110-06-3-2	150 mm	16 mm	4 mm	24	3
1-110-08-1-2	200 mm	20 mm	5 mm	10	1
1-110-08-2-2	200 mm	20 mm	5 mm	15	2
1-110-08-3-2	200 mm	20 mm	5 mm	21	3
1-110-10-1-2	250 mm	25 mm	5.5 mm	9	1
1-110-10-2-2	250 mm	25 mm	5.5 mm	12	2
1-110-10-3-2	250 mm	25 mm	5.5 mm	17	3
1-110-12-1-2	300 mm	30 mm	6 mm	7	1
1-110-12-2-2	300 mm	30 mm	6 mm	10	2
1-110-12-3-2	300 mm	30 mm	6 mm	15	3



ERGO™ Engineering Half-Round Files Bastard/Second/Smooth Cut 1-210...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- For filing concave and flat surfaces and large holes
- Suitable for deburring work
- Shape: Edges and surfaces tapered towards tip
- 4" and 6" fully pointed, 8" and longer semi-pointed
- Type of cut: 1 = Bastard, 2 = Second, 3 = Smooth
- Double cut surfaces, uncut edges
- Tapered shape for easier access into angles and corners

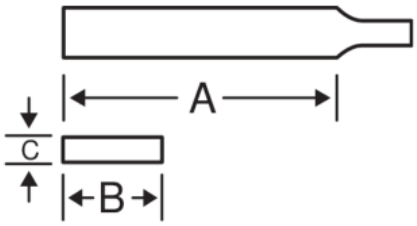


Product	A	B	C	T/cm	
1-210-04-1-2	100 mm	10 mm	3 mm	15	1
1-210-04-2-2	100 mm	10 mm	3 mm	21	2
1-210-06-1-2	150 mm	16 mm	4.5 mm	12	1
1-210-06-2-2	150 mm	16 mm	4.5 mm	17	2
1-210-06-3-2	150 mm	16 mm	4.5 mm	24	3
1-210-08-1-2	200 mm	20.5 mm	6 mm	10	1
1-210-08-2-2	200 mm	20.5 mm	6 mm	15	2
1-210-08-3-2	200 mm	20.5 mm	6 mm	21	3
1-210-10-1-2	250 mm	25 mm	7 mm	9	1
1-210-10-2-2	250 mm	25 mm	7 mm	12	2
1-210-10-3-2	250 mm	25 mm	7 mm	17	3
1-210-12-1-2	300 mm	30 mm	8.5 mm	7	1
1-210-12-2-2	300 mm	30 mm	8.5 mm	10	2
1-210-12-3-2	300 mm	30 mm	8.5 mm	15	3



ERGO™ Engineering Round Files Bastard/Second/Smooth Cut 1-230...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- For filing holes, large fillets and concave surfaces
- Shape: tapered towards tip
- Type of cut: 1 = Bastard, 2 = Second, 3 = Smooth
- Double cut
- 4" and 6" fully pointed, 8" and longer semi-pointed

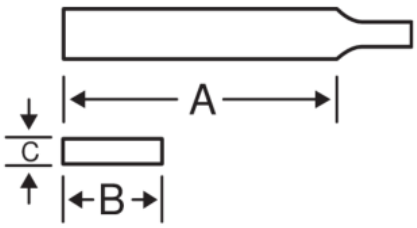


Product	A	B	T/cm	
1-230-04-1-2	100 mm	4 mm	15	1
1-230-04-2-2	100 mm	4 mm	21	2
1-230-06-1-2	150 mm	6 mm	12	1
1-230-06-2-2	150 mm	6 mm	17	2
1-230-06-3-2	150 mm	6 mm	24	3
1-230-08-1-2	200 mm	8 mm	10	1
1-230-08-2-2	200 mm	8 mm	15	2
1-230-08-3-2	200 mm	8 mm	21	3
1-230-10-1-2	250 mm	10 mm	9	1
1-230-10-2-2	250 mm	10 mm	12	2
1-230-10-3-2	250 mm	10 mm	17	3
1-230-12-1-2	300 mm	12 mm	7	1
1-230-12-2-2	300 mm	12 mm	10	2
1-230-12-3-2	300 mm	12 mm	15	3



ERGO™ Engineering Square Files Bastard/Second/Smooth Cut 1-160...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- For filing grooves, rectangular holes, inside corners and for fine-adjustment of cutting tools
- Shape: Surfaces tapered towards tip
- Type of cut: 1 = Bastard, 2 = Second, 3 = Smooth
- Double cut

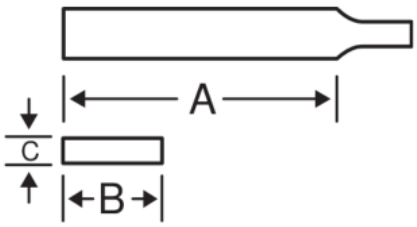


Product	A	B	T/cm	
1-160-04-1-2	100 mm	4.5 mm	15	1
1-160-04-2-2	100 mm	4.5 mm	21	2
1-160-06-1-2	150 mm	6 mm	12	1
1-160-06-2-2	150 mm	6 mm	17	2
1-160-06-3-2	150 mm	6 mm	24	3
1-160-08-1-2	200 mm	8 mm	10	1
1-160-08-2-2	200 mm	8 mm	15	2
1-160-08-3-2	200 mm	8 mm	21	3
1-160-10-1-2	250 mm	10 mm	9	1
1-160-10-2-2	250 mm	10 mm	12	2
1-160-10-3-2	250 mm	10 mm	17	3
1-160-12-1-2	300 mm	12 mm	8	1
1-160-12-2-2	300 mm	12 mm	10	2
1-160-12-3-2	300 mm	12 mm	15	3



ERGO™ Engineering Three Square Files Bastard/Second/Smooth Cut 1-170...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- Tapered surfaces ideal for flat filing
- For deburring and filing angles and inner corners
- Shape: Equilateral triangle, tapered towards tip
- Type of cut: 1 = Bastard, 2 = Second, 3 = Smooth
- Double cut surfaces
- Comfortable two-component handle provides excellent grip
- Tapered surfaces ideal for flat filing

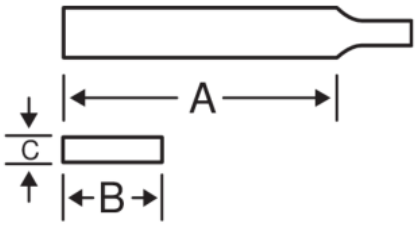


Product	A	B	T/cm	
1-170-04-2-2	100 mm	7.5 mm	21	2
1-170-06-1-2	150 mm	11 mm	12	1
1-170-06-2-2	150 mm	11 mm	17	2
1-170-06-3-2	150 mm	11 mm	24	3
1-170-08-1-2	200 mm	15.5 mm	10	1
1-170-08-2-2	200 mm	15.5 mm	15	2
1-170-08-3-2	200 mm	15.5 mm	21	3
1-170-10-1-2	250 mm	17.5 mm	9	1
1-170-10-2-2	250 mm	17.5 mm	12	2
1-170-10-3-2	250 mm	17.5 mm	17	3



ERGO™ Engineering Mill Files with 2 Flat Edges Bastard/Second Cut 1-143...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- Widely applicable for sharpening tools and implements such as spades, shovels, hoes, scrapers, etc.
- For smooth finishing, polishing and deburring on lathes
- Suitable both as an engineering file and a sharpening file
- Bastard cut commonly referred to as Mill bastard
- Shape: Surfaces parallel, edges tapered towards tip
- Surfaces and edges single cut
- Type of cut: 1 = Bastard, 2 = Second
- Single pack carded

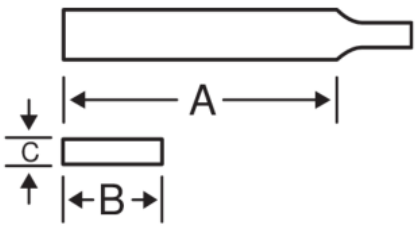


Product	A	B	C	T/cm	
1-143-06-1-2	150 mm	16 mm	3 mm	19	1
1-143-08-1-2	200 mm	20 mm	3.5 mm	17	1
1-143-10-1-2	250 mm	25 mm	4.5 mm	16	1
1-143-12-1-2	300 mm	30 mm	5 mm	15	1



ERGO™ Engineering File Set 4 Bastard/1 Second Cut 250 mm - 5 Pcs 1-478-10-1-2

- Set of five files
- Contains one each: Flat bastard, Flat second, Square bastard, Half-Round bastard, Round bastard
- File handle developed according to the scientific ERGO™ process
- For deburring and filing flat surfaces, sharp corners and shoulders
- For filing holes, large fillets and concave surfaces
- Type of cut: 1 = Bastard
- Supplied in a cardboard outer display packaging containing plastic roll-up wallet
- Maximum comfort with minimum effort thanks to ergonomic design
- Comfortable two-component handle provides excellent grip
- High removal rate files

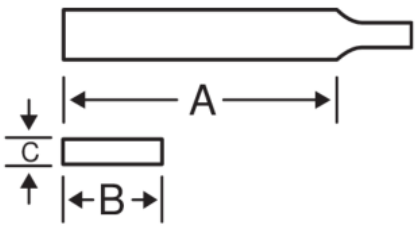


Product		
1-478-10-1-2	250 mm	1&2



ERGO™ Engineering File Set 4 Bastard/1 Second Cut 200 mm - 5 Pcs 1-478

- Set of five files
- Contains one each: Flat bastard, Flat second, Square bastard, Half-Round bastard, Round bastard
- File handle developed according to the scientific ERGO™ process
- For deburring and filing flat surfaces, sharp corners and shoulders
- For filing holes, large fillets and concave surfaces
- Type of cut: 1 = Bastard
- Supplied in a cardboard outer display packaging containing plastic roll-up wallet
- Maximum comfort with minimum effort thanks to ergonomic design
- Comfortable two-component handle provides excellent grip
- High removal rate files

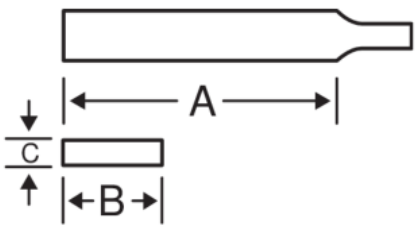


Product		
1-478-08-1-2	200 mm	1&2



ERGO™ Engineering Warding Flat Files Second Cut 1-111...-2

- File handle developed according to the scientific ERGO™ process for maximum comfort with minimum effort
- Comfortable two-component handle provides excellent grip
- For filing narrow grooves and passages, etc.
- Particularly well suited for filing cuts on keys
- Shape: Edges tapered to a point, surfaces parallel
- Type of cut: 2 = Second
- Surfaces double cut, edge single cut

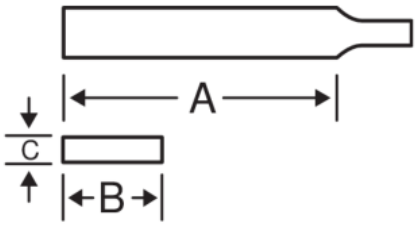


Product	A	B	C	T/cm	
1-111-06-2-2	150 mm	15 mm	1.9 mm	17	2



Engineering Lathe Files Second/Smooth Cut Unhandled 1-104

- Easy chip release leaves smooth finish when polishing and deburring work on lathes
- Shape: Edges and surfaces parallel
- Type of cut: 2 = Second, 3 = Smooth
- Surfaces single cut with large cutting angle, edges uncut
- Industry pack unhandled

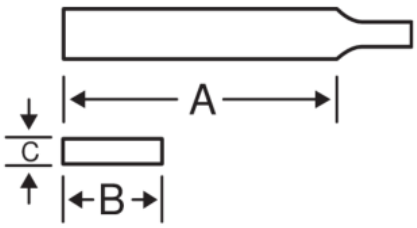


Product	A	B	C	T/cm	
1-104-12-2-0	300 mm	30 mm	6 mm	10	2



ERGO™ Mill Saw Files with Dual-Component Handle and 1 Round Edge Bastard Cut 4-138...-2

- File handle developed according to the scientific ERGO™ process
- Maximum comfort with minimum effort thanks to an ergonomic design
- Comfortable two-component handle giving an excellent grip
- For sharpening circular, felling and gang saws with fine teething and bandsaws
- Often used in the engineering industry as lathe and deburring files, polishing and for draw filing
- Shape: parallel, thin
- Type of cut: 1 = bastard
- Surfaces and edges single cut, 1 round edge



Product	A	B	C	T/cm	
4-138-06-1-2	150 mm	16 mm	3 mm	19	1
4-138-08-1-2	200 mm	20 mm	3.5 mm	17	1
4-138-10-1-2	250 mm	25 mm	4.5 mm	16	1
4-138-12-1-2	300 mm	30 mm	5 mm	15	1



Needle File Set Smooth Cut Unhandled 160 mm - 6 Pcs 2-470-16-2-0

- Set of six files with one-handle 9-488-02-10
- For fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Shape: flat, flat tapered, half-round, round, three square and square
- Type of cut: 2 = Smooth
- Supplied in snap-shut plastic wallet with hanging hole

Product		T/cm	
2-470-16-2-0	160 mm	38	2



Needle File Set Smooth Cut Unhandled 160 mm - 12 Pcs 2-472-16-2-0

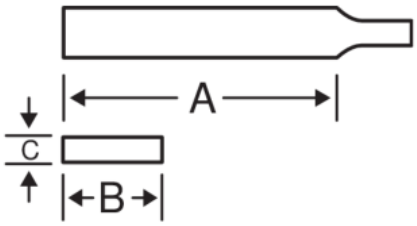
- Set of 12 files with one-handle 9-488-02-10
- For fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Shape: flat, flat tapered, three square, square, half-round, crossing, round, knife, barrette, slitting, round-edge joint and marking
- Type of cut: 2 = Smooth
- Supplied in snap-shut plastic wallet with hanging hole

Product		T/cm	
2-472-16-2-0	160 mm	38	2



Needle Flat Files Bastard/Second/Smooth/Dead Smooth Cut Unhandled 2-300

- For fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Shape: Edges and surfaces parallel
- Type of cut: 0 = Bastard, 1 = Second, 2 = Smooth, 4 = Dead smooth
- Surfaces double cut, edge single cut
- Packing: 10 pieces per box

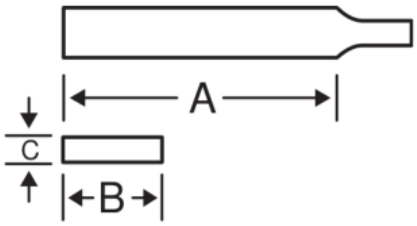


Product	A	B	C	T/cm	
2-300-16-2-0	160 mm	5.4 mm	1.2 mm	38	2



Needle Square Files Bastard/Second/Smooth/Dead Smooth Cut Unhandled 2-303

- For fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Shape: Square, surfaces taper to a point
- Type of cut: 0 = Bastard, 1 = Second, 2 = Smooth, 4 = Dead smooth
- Surfaces double cut
- Packing: 10 pieces per box

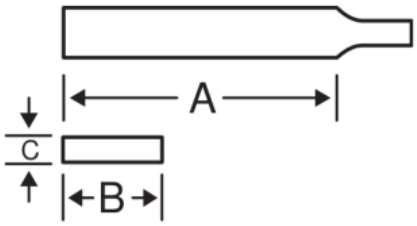


Product	A	B	T/cm	
2-303-16-2-0	160 mm	2.4 mm	38	2



Needle Round Files Bastard/Second/Smooth/Dead Smooth Cut Unhandled 2-307

- For fine filing and polishing jobs
- Used by engravers, precision engineers, instrument makers, watchmakers and goldsmiths
- Shape: round
- Type of cut: 0 = bastard, 1 = second, 2 = smooth, 4 = dead smooth
- Surfaces taper to a point, double cut
- Packing: 10 pieces per box



Product	A	B	T/cm	
2-307-14-2-0	140 mm	2.8 mm	38	2
2-307-16-2-0	160 mm	3 mm	38	2



ERGO™ Chainsaw File Set with Two-Component Handle 168-C

- Set of two 8" round and one 6" flat chainsaw file
- File handle developed according to the scientific ERGO™ process
- Maximum comfort with minimum effort thanks to ergonomic design
- Comfortable two-component handle provides excellent grip
- Complete set to sharpening your chainsaw

Product		∅	
168-COMBI-4.0	200 mm	4.0 mm	3/8" RG
168-COMBI-4.8	200 mm	4.8 mm	.325
168-COMBI-5.5	200 mm	5.5 mm	3/8" & .404