

Paxton & Vierling Steel

ESTABLISHED 1885

TOOL STEEL SELECTOR

APPLICATION AND SUGGESTED GRADES

APPLICATION	SUGGESTED GRADES		
Arbors	O1, A2, A6, A10	Threading	M2
Battering Tools	S5, S7	Woodworking	M2
Blacksmith Tools	S5	Cut-Off Tools	M2
Blades, Shear		APPLICATION	SUGGESTED GRADES
Hot and cold	A8	Dies:	
Shear	A10, S2	Bending	A2, D2, A6
Boiler-shop Tools	S5, S7	Blanking	
Bolt Clippers	S5	(long run)	D2, D3
Boring Tools	M2	Blanking	
Breakers, Concrete	S2	(medium run)	A2, A6, O1
Broaches	M2	Briquetting	D7
Burnishing Tools	D3, D2	Ceramic	D7
Bushings	O1, O6, A2	Coining	A2, D2, A6
Cams	A2, A6	Coining (Heavy-duty)	S2
Chasers(thread cutting)	O1	Cold Heading	
Chisels:		Die Inserts	D2, M2
Blacksmith	S5, S7	Cold Heading	
Cold Working	S5, S7	Solid or Open	A6, S7
File Cutting	D2, M2	Crimping	S2
Hot Working	S7	Deep drawing	D7
Pneumatic	S2	Die Casting Dies &	
Stone	S5	Cores for Zinc	H13
Track	S2	Die Casting Dies &	
Woodworking	M2	Cores for	
Chuck Jaws	S5, S7	Aluminum	H13
Clutch Parts	S5, S7	Embossing	A2, D2, A6
Collets	S5, S7, O1	Extrusion, Cold	D2, M2
Concrete Breakers	S5	Forming, Cold	D2, O1, A2
Counterbores	M2	Forming, Hot	H13, S7
Cutters:		Gripper, Cold	S7, S5
Formtool	M2	Gripper, Hot	S7, H13
Milling	M2	Lamination	D2, D3, A2
Inserted Blade	M2	Metal Working	A10
Paper	D2, M2	Swaging, Cold	A2, D2, S7, S2
		Swaging, Hot	H13, S7, S2
		Thread Roll	D2
		Trimming, Cold	A2, D2, A6, S2
		Trimming, Hot	S7, H13, S2
		Vanstoning	S2
		Wire Drawing	D2, D3
		Drills:	
		Flat Spade Type	M2
		Twist	M2
		Drill Bushings	S5, O6, O1
		Dummy Blocks	
		(Hot Extrusion)	H13
		Gages	O1, D2, A10

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Jaws	S2
Knives:	
Chipper	A8, A2, S7
Paper	M2, D2
Rotary Slitters	D2, A8, S5
Planer	A8
Plastic granulating	A8
Shear, Cold	D2, A8, A2, S5, S7, A8
Shear, Hot	H13, A8, S7
Slitter	A8
Woodworking	A2, D2, M2
Knurling Tools	M2, D2, O1, S2
Lathe Centers	A2, A6, D2
Lathe Tools	M2
Liners, brick mold	D7
Mandrels:	
Cold Working	A2, D2, O1
Hot Extrusion	H13
Master Hobs	S7, A2, D2
Molds, Plastic	A2, S7, H13
Parts, wear resisting	D7
Pins:	
Clutch	S2
Indexing	S2
Knock-out	S2
Pipe Cutters	S5
Planer Tools	M2
Plate, brick mold die	D7
Plug Gages	O1, A2
Stamps:	
Cold	S5, S2
Hot	H13, S7
Taps	O1, M2, S2
Tools:	
Beading	S2
Ceramic	D7
Forming (Heavy-duty)	S2
Wheels, Pipe Cuter	S2
Wrenches	S5, S2

Pneumatic Tools	S5, S7
Punches:	
Center	S5, S7, S2
Cold Extrusion	D2, A2, M2
Cold Heading	D2, M2, A2
Drawing	A2, D2, A6
HD	A8
Hot Working	H13, S7

APPLICATION SUGGESTED GRADES

Punches: (Cont'd)	
Hot Nut Forming	H13, M2
Metal Working	A10
Trimming	A2, D2, S7
Reamers	M2
Rolls:	
Burnishing	D2, D3,
Flattening	D7
Forming	D2, D3, A2, A10,
Master Engraving	O1, A6
Seaming	D2, D3
Splitter	A8
Roll Turning Tools	M2
Saws - Hand, Hack, Inserted Tooth	M2
Screwdriver Bits	S5
Shaper Tools	M2
Shear Blades:	
Cold (light gage)	M2, D2
Cold (heavy gage)	S5, S7, A8
Hot	H13, A8, S7
Scrap	A8
Squaring	A8