CHOOSING THE RIGHT MACHINE VISE

Selecting the right vise, rotary or cross slide table to meet your requirements requires careful assessment of the performance objectives outlined below. The following chart is a helpful tool to assist you in identifying the model of vise, rotary table or cross slide table that best fits a specific application. Follow these steps to help select the right operation, machine and then which of the 6 basic machining motions to be performed. Then determine the application or use that best fits your specific requirement. Palmgren has the greatest selection of vises and tables to assist you in adapting your existing equipment to handle a wider variety of operations.

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			OPERATIONS												MACHINES							6 BASIC MACHINING MOTIONS				APPLICATIONS / USES				
			Milling	Drilling	Reaming	Spot-facing	Counter Sinking	Counter Boring	Boring	Tapping	Grinding	Sawing	Marking	Sinker EDM	Drill Presses	Mill/Drills	Milling Machines	CNC Machining Centers	Vertical Band Saws	Surface Grinders	EMD Machines	Rotary - Indexing the work piece	Simple Angular Inclination	Compound Angular Inclination	Clamping	Work holding	Positioning Horizontal	Positioning Vertical	Positioning Angular	Precision Machining
Angle Vises																														
11152	X1	Angle vise, 1.5"	X	X	X	X	X	X	X	X			X		X	X	X						X		X	X	X		X	
11250	AVC25	Cradle-style angel vise, 2.5"	X	X	X	X	X	X	X	X			X		X	X	X						X		X	X	X		X	
11253	0	Angle vise, 2.5"	X	X	X	X	X	X	X	X			X		X	X	X						X		X	X	X		X	
11255	000B	Angle vise w/base, 2.5"	X	X	X	X	X	X	X	X			X		X	X	X					X		X	X	X	X		X	
11351	AVC35	Cradle-style angel vise, 3.5"	X	X	X	X	X	X	X	X			X		X	X	X						X		X	X	X		X	
11405	AVS40	Industrial style angle vise w/swivel base, 4"	X	X	X	X	X	X	X	X			X		X	X	X					X		X	X	X	X		X	
11602	AVS60	Industrial style angle vise w/swivel base, 6"	X	X	X	X	X	X	X	X			X		X	X	X					X		X	X	X	X		X	
Drill Press Vises																														
12152	6	Drill press vise, 1.5"		X	X	X	X	X	X	X		X	X		X	X			X						X	X	X	X		
12153	120	Drill press vise w/lugs, 1.75"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12251	10	Drill press vise, 2.5"		X	X	X	X	X	X	X		X	X		X	X			X						X	X	X	X		
12253	30	Drill press vise, 2.5"		X	X	X	X	X	X	X		X	X		X	X			X						X	X	X	X		
12301	13	Drill press vise, 3"		X	X	X	X	X	X	X			X		X	X									X	X	X	X		
12302	320	Drill press vise, w/lugs, 3"		X	X	X	X	X	X	X			X		X	X									X	X	X	X		
12303	DPL30	Low profile drill press vise, 3"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12321	QV30	Quick action vise, 3"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12352	DP40	Drill press vise, 4"		X	X	X	X	X	X	X			X		X	X									X	X	X	X		
12401	14	Drill press vise, 4"		X	X	X	X	X	X	X			X		X	X									X	X	X	X		
12403	DPL40	Low profile drill press vise, 4"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12421	QV40	Quick action vise, 4"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12601	DPL60	Low profile drill press vise, 6"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12602	16	Drill press vise, 6"		X	X	X	X	X	X	X			X		X	X									X	X	X	X		
12603	DP60	Drill press vise, 6"		X	X	X	X	X	X	X			X		X	X									X	X	X	X		
12621	QV60	Quick action vise, 6"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12801	DPL80	Low profile vise, 8"		X	X	X	X	X	X	X			X		X	X									X	X	X			
12821	QV80	Quick action vise, 8"		X	X	X	X	X	X	X			X		X	X									X	X	X			
Toolmakers & Sine Vises																														
13152	13152	Toolmakers vise, 2"									X		X	X						X	X				X	X	X	X		X
13154	13154	Toolmakers vise, 4"									X		X	X						X	X				X	X	X	X		X
13162	13162	Angle sine vise, 2"									X		X	X						X	X		X		X	X	X		X	X
13164	13164	Angle sine vise, 4"									X		X	X						X	X		X		X	X	X		X	X
Self Centering Vise																														
15604		6" Self-Centering Vise		X	X	X	X	X	X	X						X	X								X	X	X			
Milling Machine Vises																														
18401	410	Milling machine vise , 4"	X	X	X	X	X	X	X	X			X				X								X	X	X			
18402	410B	Milling machine vise w/base, 4"	X	X	X	X	X	X	X	X			X				X					X			X	X	X			
18601	610	Milling machine vise, 6"	X	X	X	X	X	X	X	X			X				X								X	X	X			
18602	610B	Milling machine vise w/base, 6"	X	X	X	X	X	X	X	X			X				X					X			X	X	X			
25404	MVS40	Milling machine vise w/swivel base, 4"	X	X	X	X	X	X	X	X							X					X			X	X	X			
26603	MVS60	Milling machine vise w/swivel base, 6"	X	X	X	X	X	X	X	X							X					X			X	X	X			
26604	MPS60	Precision milling machine vise w/swivel base, 6"	X	X	X	X	X	X	X	X							X	X				X			X	X	X			X
26608	26608	Precision milling machine vise w/stationary base, 6"	X	X	X	X	X	X	X	X							X	X							X	X	X			X