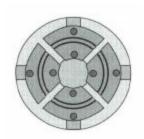
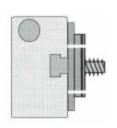
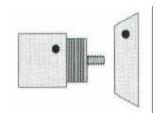
Lathe Chucks & Chucking Presentation by Bill Haskell

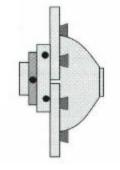
Presentation by Bill Haskel November 12, 2000











Chuck Type	Chuck Use	Advantages	Disadvantages
Face Plate	 Most bowl and plate forms Direct attachment with screws Attach to waste block with glue Jam and screw chuck adaptation 	 Very versatile – good general purpose attaching method Relatively inexpensive 	Does not self center
Jam Chuck	 Scrap wood or plywood mounted on faceplate With recess: turn bottoms of plates and non-enclosed bowls With spigot: turn bottom of enclosed work using tail stock 	 Inexpensive Doesn't require expensive chucks Mount on existing faceplate Self centers 	 Create or reshape for each use Reuse limited For finish turning, not roughing out
4 Jaw Scroll Chuck	Most versatile chuck – will hold large variety of work	 Holds small to large work Multiple gripping methods: Spigot - Recess - Screw Pin - Small square Self centers Ease of mounting and remounting After market jaw types and sizes 	• Expensive (\$200 – \$300)
4 Jaw Independent Chuck	Best for off center work and irregular shaped pieces	Off center workIrregular shaped work	Difficult to use if centering is critical

Lathe Chucks & Chucking

Chuck Type	Chuck Use	Advantages	Disadvantages
Jacobs Chuck (On Morse Taper)	 Primarily for holding drills in tail stock Can be used in headstock for small diameter spigot 	Best way to hold drill for drillingSelf Centers	For Mounting Wood: Only for small diameter tenons Indents wood Long tenon required
Collet Chuck	Small items like tops, wine bottle stoppers, etc.	 Quick attachment Self Centers	 Only useable for small spindles Different size collet required for each dowel/tenon size Long tenon required
Screw Chuck	Small bowls, goblets, finials, etc.Initial blank roughing and bottom preparation	 Easy and fast attachment Useable on 4-jaw chuck Shape bottom to mount on faceplate or 4-Jaw chuck 	Not suited for large work (over 6" long and 8" diameter)
Pin Chuck	Initial blank roughing and bottom preparation	 Good for green logs Quick mounting Shape bottom to mount on faceplate or 4-Jaw chuck 	Limited to outside and bottom shapingPin hole could be problem
Vacuum Chuck	Reverse turning natural edge work, off center pieces, and other unusual shapes	Holds work other chucks can not accommodate	 Requires Vacuum pump Can be expensive Requires work mounting adjustments to achieve desired placement
Cup Chuck	Short spindle shaped work without using tail stock	 Production turning of short spindle type work Self centers 	Must turn Morse taper tenonNot for large workNot on the market
Spindle Morse Taper	Miniatures, goblets, finals, etc.	Holds small work wellNo chuck requiredSelf Centers	Must turn Morse taper tenonOnly for very small work

Four Ways to Grip with a Four Jaw

