

Recommendations for Safe Operating Conditions for Hardinge 5C Cast Iron Spindle Tooling

Cast Iron Step Chuck Closers:

Spindle Tooling	Recommended Speed	Recommended Draw-bar Force
2", 3", and 4" Step Chuck Closers 5", and 6" Step Chuck Closers	Less than 5000 rpm Less than 4000 rpm	Less than 5000 lb Less than 5000 lb

Cast Iron Face Plates and Fixture Plates:

Maximum surface speed of 6000 fpm with allowances made for LOAD ECCENTRICITIES, CLAMPING FORCES and STRESS CONCENTRATIONS. Operator discretion is needed because precise guidelines cannot be established due to the uncertainties in operating conditions. All rpm recommendations listed below result in surface speeds of less than 6000 fpm. The following is a rough guideline.

Spindle Tooling	Recommended Speed	
3" Fixture Plates	Less than 3500 rpm	
5" Fixture Plates	Less than 3000 rpm	
8.875'' Fixture Plates	Less than 2000 rpm	
5" Jaw Chuck	Less than 3000 rpm	
6" Jaw Chuck	Less than 2500 rpm	
7" Face Plate with angle plate	Less than 2500 rpm	
9" Face Plate with angle plate	Less than 2000 rpm	

SAFETY INFORMATION PLEASE READ CAREFULLY NOTE: All tooling is to be free of defects and is

assumed NOT to be weakened by usage.

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