

Enhanced Tool Management System on Moore Jig Grinder

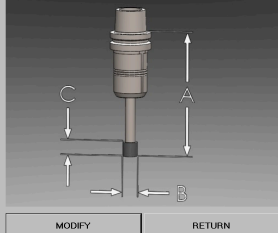
Moore Tool has recently enhanced its tool management software for its 500 Series (19.6 in. in X-axis by 11.8 in. in Y-axis travel) and 1280 Series (52 in. in X-axis by 32.3 in. in Y-axis-travel) CNC-controlled Jig Grinders. The tool management system better enables the management of dressable and non-dressable wheels. For dressable wheels, the user can now select the maximum amount of allowable wheel wear, in mm or inch, before the wheel should be changed. This is used in conjunction with the AutoSize program, a cycle for automatic sizing wheel diameter. Through the AutoSize program, the control monitors and automatically detects when the maximum amount of wheel has been dressed off or, otherwise, removed through the grinding process. This removes the manual process today of checking for wheel wear.

For non-dressable wheels, the system enables the user to set the maximum amount of time the wheel can be used before a replacement tool is required. Easy to access screens will show the user, in real time, how much time a wheel has left before it needs to be changed. These enhancements help improve the grinding process by automatically keeping track of the tool's life.

In addition to these enhancements, the tool management system allows a user to easily update tool information (tool length, wheel diameter, wheel thickness). Once tool information is loaded, it is stored for use by the AutoSize and the Wheel Dressing programs. These programs have been enhanced for faster set up whether utilizing a Renishaw OMP400 Probe or a conventional indicating process.

TOOL LIFE DISPLAY			
	TOOL NO.	TOOL LIFE REMAINING	
EDIT	1	38 min	
EDIT	2	300 min	
EDIT	3	1000 min	
EDIT	4	0.000 mm	
EDIT	5	-8 min	
EDIT	6	0.000 mm	
EDIT	7	0.000 mm	
EDIT	8	0.000 mm	
EDIT	9	0 min	
EDIT	10	0.000 mm	
EDIT	11	0.000 mm	
EDIT	12	0.000 mm	
EDIT	13	0.000 mm	
EDIT	14	0.000 mm	
EDIT	15	0.000 mm	
EDIT	16	-5000 min	
EDIT	17	0 min	
EDIT	18	0.000 mm	
EDIT	19	0.000 mm	
EDIT	20	0.000 mm	

20 Position Tool Life Display Screen

TOOL DATA DISPLAY - DRESSABLE WHEEL	
	TOOL # <input type="text" value="6"/>
	SPRING FACTOR <input type="text" value="0.0000"/> mm
	COARSE ADJUSTMENT <input type="text" value="0.0000"/> mm
	MAXIMUM WHEEL WEAR <input type="text" value="0.0250"/> mm
	(A) LENGTH <input type="text" value="152.4000"/> mm
	(B) DIAMETER <input type="text" value="304.8000"/> mm
	(C) THICKNESS <input type="text" value="10.0000"/> mm
<input type="button" value="MODIFY"/> <input type="button" value="RETURN"/>	
<input type="button" value="REGRIND THE BLADE"/>	
<input type="button" value="RUN INITIAL AUTOSIZE"/>	

Tool Data Display Screen for a Dressable Wheel

About Moore Tool

The Moore Tool Company manufactures a complete line of jig grinders and has a precision manufacturing business certified to ISO 9001:2008 and AS9100C. The company is ITAR registered. Moore's machine tool business builds fully automated and highly productive CNC Continuous Path jig grinders. We offer a complete line of machine accessories, including our ProGrind system which includes electric grinding spindles, flood coolant enclosures, as well as advanced sensor-based systems such as Moore AutoGrind and the patented Moore AutoSize.

Moore Tool Company is part of The PMT Group, parent company of three operating companies – Moore Tool Company, Inc., Moore Nanotechnology Systems, LLC, and the Producto Corporation.

